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Office of Mobile Source Air Pollution Control
Emission Control Technology Division
2565 Plymouth Road
Ann Arbor, Michigan 48105

EPA 460/3-89-002
September 1989

Air



Analysis of Original Equipment and Aftermarket Manufacturer Oxygen Sensor Constructional, Functional, and Retail Price Differences



EPA 460 / 3-89-002

**Analysis of Original Equipment
and Aftermarket Manufacturer
Oxygen Sensor Constructional,
Functional, and Price Differences**

by

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Contract No. 68-03-3474

EPA Officer: Mark Wolcott

Prepared for

**ENVIRONMENTAL PROTECTION AGENCY
Office of Mobile Source Air Pollution Control
Emission Control Technology Division
2565 Plymouth Road
Ann Arbor, Michigan 48105**

September 1989

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FOREWORD

This project was initiated by the Emission Control Technology Division, Environmental Protection Agency, 2565 Plymouth Road, Ann Arbor, Michigan, 48105. The effort on which this report is based was conducted by Radian Corporation, 10395 Old Placerville Road, Sacramento, California, 95827. The effort covers work performed for Work Assignments 1-03 and 2-07 under Contract No. 68-03-3474. Work Assignment 1-03 was initiated January 7, 1988 and was terminated September 30, 1988. Work Assignment 2-07, authorized by Modification No. 1 to Contract No. 68-03-3474, was initiated August 25, 1989 and was terminated September 30, 1989. Work Assignments 1-03 and 2-07 were identified within Radian as Projects 245-076-01 and 245-076-02 respectively.

The Radian Project Directors were Mr. David Wright for Work Assignment 1-03 and Mr. Charles Beyer for Work Assignment 2-07. Mr. Rob Klausmeier was the Radian Program Manager for both work assignments. The Environmental Protection Agency Project Officer was Mr. Mark Wolcott.

ABSTRACT

The oxygen sensor is a critical component of modern vehicle emission control systems. Studies conducted by the United States Environmental Protection Agency (EPA) show that failed oxygen sensors result in high emissions during the Federal Test Procedure (FTP). Many states have inspection and maintenance (I/M) programs to detect and correct high emitting vehicles but most programs have a repair cost limit. The high retail price of some oxygen sensors often exceeds the I/M repair cost limit, resulting in high emitting vehicles not being repaired.

A study of oxygen sensor prices, designs, and applications was conducted to identify reasons for high oxygen sensor prices. The study showed that many oxygen sensors are constructionally and functionally the same but their retail prices vary greatly. The reason for the price variations was not identified.

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1.0 EXECUTIVE SUMMARY

The U.S. Environmental Protection Agency (EPA) is concerned that high oxygen sensor prices lower the effectiveness of vehicle inspection and maintenance (I/M) programs. Because of this, EPA's Emission Control Technology Division contracted with Radian Corporation to collect and analyze information on exhaust oxygen sensors used in 1980 to 1986 model year vehicles. The purpose of this project was to compare physical dimensions, functional specifications, and prices of oxygen sensors. This report presents Radian's findings.

This project was performed under two separate EPA work assignments. The first assignment was to collect oxygen sensor information and develop a database. The second work assignment was to collect missing oxygen sensor-specific data and report project results. The missing data were acquired by purchasing and measuring oxygen sensors.

Background

Thirty-one states currently use vehicle I/M programs to reduce emissions from automobiles. All of these programs require repairs to be performed on vehicles that fail the I/M test. However, most I/M programs have implemented an upper cost limit on vehicle repairs. If the cost of repairing the vehicle exceeds the limit, the vehicle is usually issued a waiver and further repairs are not required.

A critical emission control component found in many 1980 and later model vehicles is the oxygen sensor. The consumer costs of oxygen sensors vary significantly and often exceed the upper cost limit of I/M programs. Adding costs for installation and correcting other problems further increases the percentage of repairs that exceed cost limits. I/M effectiveness is directly reduced by the percent of vehicles that are waived from compliance because repairs exceed upper cost limits.

Scope of this Project

In this study, information was gathered on oxygen sensors used in vehicles built by the 10 largest automobile manufacturers. Based on 1981 through 1986 sales data from the EPA CAFE database, oxygen sensors used by the following manufacturers were included in the study:

- AMC/Jeep;
- Chrysler Corporation
- Ford Motor Company
- General Motors;
- Honda;
- Nissan;
- Mitsubishi;
- Mazda;
- Toyota; and
- Volkswagen

Most of the information for this project was obtained from automobile manufacturers. A survey was sent to each of the ten (10) automobile manufacturers listed above, as well to aftermarket oxygen sensor manufacturers, such as Robert Bosch Corporation, to collect information on specifications and prices of oxygen sensors. Table 1-1 lists the types of data that were requested.

All of the automobile manufacturers except Honda responded to the survey. AMC/Jeep, Chrysler, Ford, and Volkswagen did not provide information on some of the oxygen sensors used in their vehicles. In cases where data were not provided by manufacturers, Radian purchased the sensors and measured physical dimensions. Characteristics such as switch point and sensor material could not be independently determined by Radian within the budget for this project. The sensor material was assumed to be zirconia and the switch point was assumed to be 14.7 for the oxygen sensors purchased and measured by Radian.

TABLE 1-1. DATA REQUESTED FROM OXYGEN SENSOR MANUFACTURERS

Oxygen Sensor Part Number
Suggested Retail Price
Recommended Change Interval
Oxygen Sensor Type (Heated or Non-heated)
Splash Protection (Low, Moderate, Severe, or Not-Specified)
Sensor Material
Voltage Output Range
Sensor Switch Point
Type of Electrical Connector
Number of Wires Attached to the Sensor
Wire Length
Length of the Sensor above the Threads
Length of the Sensor below the Threads
Thread Length
Thread Size and Class of Fit
Sensor Application (Vehicle Model, Year, Engine Size)

The collected data were entered in a database and analyzed. Data were segregated into four primary files:

- Engine;
- Vehicle Model;
- OEM Oxygen Sensor; and
- Aftermarket Oxygen Sensor.

Five separate programs were written to evaluate and print data from the database. The first program lists the engine families included in the study along with vehicle models and recommended original equipment manufacturer (OEM) oxygen sensors. The second program lists the aftermarket oxygen sensors which can replace each OEM sensor. It sorts the information by vehicle manufacturer and OEM sensor part number. The same information, but with sensors ranked by decreasing suggested retail price, is printed by the third program.

The fourth program presents groupings of similar OEM oxygen sensors. Nine groupings were developed based on constructional and functional characteristics of the sensors. The fifth program compares replacement oxygen sensor retail prices to different I/M repair cost limits. This program indicates the total number and percentage of vehicles with oxygen sensor replacement costs exceeding the selected repair cost limits.

Summary of Results

Table 1-2 presents the percentage of vehicles with replacement oxygen sensor retail prices exceeding different repair cost limits. Obviously, the percentage decreases as the cost limit increases. A sharp drop occurs between limits of \$75 and \$100. This is shown on Figure 1-1.

Table 1-3 presents the range of prices for oxygen sensors with similar characteristics. A wide range of prices were listed for similar sensors. Table 1-4 shows the distribution of oxygen sensor prices for different manufacturers. Generally, oxygen sensors used in domestic vehicles have lower prices than those used in imports.

TABLE 1-2. PERCENTAGE OF VEHICLES WITH REPLACEMENT OXYGEN SENSOR RETAIL PRICES EXCEEDING CERTAIN REPAIR COST LIMITS

Model Year	Total Sales ^a	\$50.00	\$75.00	\$100.00	\$150.00	\$200.00
81 - 86 ^b	42,239.3	22.9	21.1	6.8	4.1	2.1
86 ^b	7,048.6	33.6	31.7	12.6	5.0	0.5
85	9,196.5	30.0	28.3	12.2	8.6	5.4
84	9,764.9	19.1	17.7	8.0	5.9	3.6
83	5,870.2	17.0	15.6	1.8	0.1	0.0
82	4,894.3	15.5	13.2	0.0	0.0	0.0
81	5,414.9	16.4	14.4	0.0	0.0	0.0

^a Total sales, in 1000s, of oxygen sensor equipped vehicles built by the ten largest automobile manufacturers.

^b 1986 sales data were not available for Ford and Honda and, therefore, were not included.

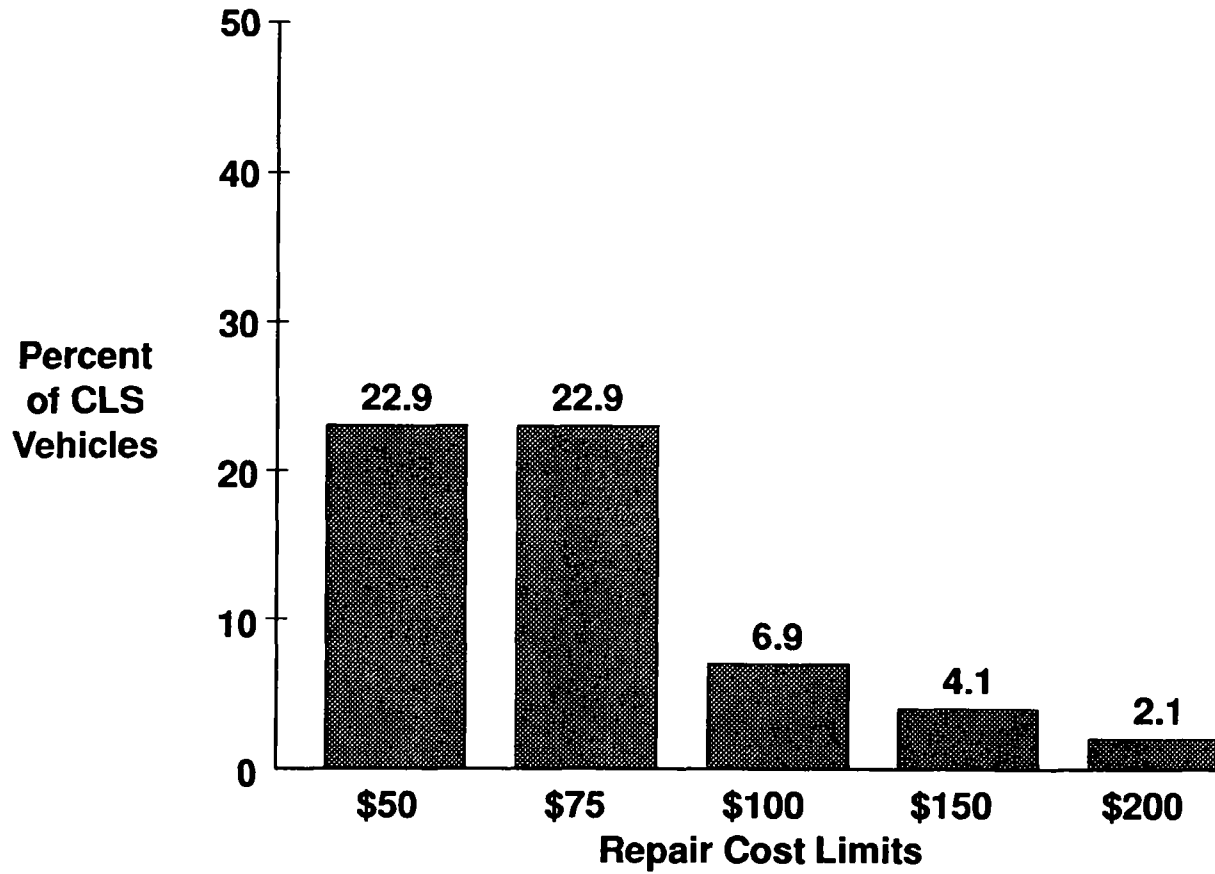


Figure 1-1. Percent of 1981-86 Vehicles with Closed Loop Systems (CLS) and with Oxygen Sensor Retail Prices That Would Exceed Certain Repair Cost Limits. (Labor Cost and '86 Ford & Honda Data Excluded.)

TABLE 1-3. PRICE RANGES FOR OXYGEN SENSORS WITH SIMILAR CHARACTERISTICS

Group	Number of Oxygen Sensors In Group	Sensor Material	Type	Number of Wires	Thread Size	Total Insertion ¹ Depth (TID)	Minimum Retail ² Price	Maximum Retail ² Price
1	6	Zirconia	Heated	3	18mm x 1.5mm	26mm ≤ TID <28mm	\$ 49.62	\$138.33
2	1	Zirconia	Heated	3	18mm x 1.5mm	24mm ≤ TID <26mm	118.50	—
3	2	Zirconia	Nonheated	2	18mm x 1.5mm	30mm ≤ TID	36.71	37.11
4	1	Zirconia	Nonheated	1	18mm x 1.5mm	30mm ≤ TID	215.32	—
5	18	Zirconia	Nonheated	1	18mm x 1.5mm	28mm ≤ TID <30mm	37.70	272.05
6	9	Zirconia	Nonheated	1	Flange Type	28mm ≤ TID <30mm	79.85	178.28
7	23	Zirconia	Nonheated	1	18mm x 1.5mm	26mm ≤ TID <28mm	49.62	272.52
8	1	Titania	Heated	3	12mm x 1.25mm	28mm ≤ TID <30mm	138.20	—
9	1	Titania	Heated	3	12mm x 1.25mm	24mm ≤ TID <26mm	141.90	—

¹ Total Insertion Depth = Thread length + length of sensor below threads.

² Manufacturer suggested retail price, actual price may vary. Prices obtained between 3-88 and 9-89.

TABLE 1-4. PERCENTAGE OF 1981-86 OEM REPLACEMENT OXYGEN SENSORS WITH SUGGESTED RETAIL PRICES WITHIN CERTAIN PRICE RANGES

Manufacturer	Number of Sensors	\$0-50	\$50-75	\$75-100	\$100-150	\$150-200	\$Over 200
Ford Motor Co.	3	100 ^{a, b}	--	--	--	--	--
General Motors	2	100 ^a	--	--	--	--	--
AMC/Jeep	3	67 ^a	--	--	33 ^a	--	--
Chrysler Corp.	3	67 ^a	--	--	--	33 ^a	--
Volkswagen	4	--	25 ^a	25 ^a	50 ^b	--	--
Toyota	8	--	--	100 ^a	--	--	--
Nissan	15	--	--	60 ^a	40 ^{b, c}	--	--
Mazda	10	--	--	--	100 ^a	--	--
Mitsubishi	7	--	--	--	--	71 ^a	29 ^a
Honda	7	--	--	--	--	--	100 ^a

Actual price may vary from manufacturers suggested retail price.

^a Nonheated zirconia oxygen sensors.

^b Heated zirconia oxygen sensors.

^c Heated titania oxygen sensors.

Conclusions

The oxygen sensor is a critical component of modern vehicle emission control systems. Oxygen sensor failure can result in high vehicle emissions. Many states have inspection and maintenance (I/M) programs to detect and correct high emitting vehicles, but most programs have a repair cost limit. The high retail price of some oxygen sensors often exceeds the I/M repair cost limit, therefore, high emitting vehicles with failed oxygen sensors are not always repaired.

This study focused solely on constructional and functional oxygen sensor parameters. Many of the higher priced OEM oxygen sensors appear to be similar in construction and function to lower priced oxygen sensors. However, no attempt has been made to determine why such a broad price range exists for OEM oxygen sensors. Other factors that might possibly affect operation, reliability, or retail price of oxygen sensors include the quantity of noble metals used during the manufacture of the sensor, the electrical connector design, the number of oxygen sensors produced in a given production run, and overhead costs. EPA needs information on these and possibly other factors to understand why such a broad price range for OEM oxygen sensors was exhibited in this study.

This study identified the following specific conclusions:

- Many of the higher priced OEM oxygen sensors appear constructionally and functionally similar to lower priced sensors used by other OEMs;
- At a repair cost limit of \$75, approximately 23 percent of the closed-loop vehicles built between 1981 and 1986 might not have failed oxygen sensors replaced since the OEM replacement price, without installation labor, exceeds \$75;
- The percentage of closed-loop vehicles for which the OEM retail oxygen sensor price exceeds the cost limit decreases dramatically

at the higher cost limits. At an I/M cost limit of \$200, slightly over 2 percent of the closed-loop vehicles sold between 1981 and 1986 could not have failed oxygen sensors replaced at the OEM retail price; and

- Aftermarket oxygen sensor prices tend to be lower than OEM sensor prices for import vehicles and slightly higher than OEM sensor prices for domestic vehicles.

2.0 INTRODUCTION

Thirty-one states currently have vehicle inspection and maintenance (I/M) programs. All states require that repairs be performed on any vehicle that fails the I/M test, however, two-thirds of the programs have an upper limit on repair costs. If the cost of repairing the vehicle exceeds the upper limit, the vehicle is usually issued a waiver and further repairs are not required. The oxygen sensor is a critical emission control component found in many 1980 and later model vehicles. The consumer costs of oxygen sensors vary widely and often exceed the upper cost limit of I/M programs.

The U.S. Environmental Protection Agency (EPA) is concerned that high oxygen sensor prices lower the effectiveness of vehicle inspection and maintenance (I/M) programs. Because of this, EPA's Emission Control Technology Division contracted with Radian Corporation to collect and analyze information on exhaust oxygen sensors used in 1980 to 1986 model year vehicles. The purpose of this project was to compare physical dimensions, functional specifications, and prices of oxygen sensors. This report presents Radian's findings.

The following section describes how data were collected for this project. Section 4.0 discusses the data reports that are automatically generated from the project database. The results are analyzed in Section 5.0 and conclusions are presented in Section 6.0.

3.0 DATA COLLECTION METHODOLOGY AND RESPONSES

The data used in this project were collected from a variety of sources. Primary data sources were EPA, automobile manufacturers, and after-market oxygen sensor manufacturers. Additional data were obtained from automobile dealerships, a Southern California-based automotive parts store, and by the purchase and measurement of oxygen sensors. This section describes:

- Methods used for data collection;
- Responses from the automobile and aftermarket oxygen sensor manufacturers; and
- Problems associated with the collected data.

The original data collection effort was performed between January and September, 1988. The purchase and measurement of oxygen sensors by Radian took place between August and September, 1989.

3.1 Data Collection Methodology

This section describes the methodology used to collect oxygen sensor data. Two types of data were collected - oxygen sensor application data and oxygen sensor specific data. Oxygen sensor application data consisted of the engine families or vehicle models that use a given oxygen sensor. Oxygen sensor specific data consisted of the following:

- Oxygen sensor part number;
- Sensor type, heated or non-heated;
- Recommended replacement interval;
- Suggested retail price;
- Electrical connector type;
- Sensor material;

- Voltage output limits;
- Air/fuel ratio switch point;
- Splash protection;
- Number of wires connected to sensor;
- Sensor thread size;
- Sensor thread length;
- Length of sensor below the threads;
- Length of sensor above the threads; and
- Length of sensor wire(s).

3.1.1 Identification of Automobile Manufacturers and Closed-Loop Engine Families

To limit the scope of this project, oxygen sensor information was requested from the ten largest automobile manufacturers from 1980 to 1986. Total sales volume for 1981-86 model year light-duty vehicles (LDVs) and light-duty trucks (LDTs), including vehicles without oxygen sensors, was used to determine the largest manufacturers. The scope was limited further by including only engine families with sales over 5000 units per year for each manufacturer. Using data from the EPA CAFE database, Radian determined the manufacturers and engine families to be included in this project. Table 3-1 shows the total vehicle sales and number of engine families using oxygen sensors for each manufacturer during the 1981-86 period. EPA's database for the 1986 model year did not contain any sales or engine family information for Ford and Honda vehicles.

3.1.2 Survey of Automobile Manufacturers

A survey was sent to each manufacturer requesting specific information for each distinct oxygen sensor part number. The automobile manufacturers surveyed are listed below:

- AMC/Jeep;

TABLE 3-1. TOP 10 AUTOMOBILE MANUFACTURERS, TOTAL 1981-86 VEHICLE SALES, AND NUMBER OF ENGINE FAMILIES INCLUDED IN STUDY

Manufacturer	1981 to 86 Total Vehicle Sales ¹	Number of Engine Families ²
General Motors Corp.	22,927,580	146
Ford Motor Company	11,021,519	52
Chrysler Corp.	5,478,865	62
Toyota	3,678,353	54
Nissan	3,202,445	82
Honda	1,976,572	19
Mazda	1,376,164	20
AMC/Jeep	1,240,849	20
Volkswagen	934,865	32
Mitsubishi	871,650	29

¹ Vehicle sales include sales of vehicles that do not use oxygen sensors. 1986 sales for Ford and Honda not included.

² Engine families using oxygen sensors and with sales of 5,000 or more units.

- Chrysler Corporation;
- Ford Motor Company;
- General Motors;
- Honda;
- Nissan;
- Mitsubishi;
- Mazda;
- Toyota; and
- Volkswagen.

The survey consisted of two sections. The first section asked for oxygen sensor application information for each engine family with sales greater than 5000 units per year. The survey form listed the model year, engine family, engine displacement in cubic inches and liters, engine family sales for the model year, and models using each engine family. Blanks were included for the manufacturer to identify special engine descriptors, recommended oxygen sensor part number or numbers, and body style designations for each model, if applicable. An example of the survey sent to Honda is included as Figure 3-1. The engine family sales data in Figure 3-1 is confidential and has been deleted for this report.

The second section of the survey asked for specific information on each oxygen sensor part number listed in the first section of the survey. The manufacturer was to complete one oxygen sensor data sheet for each part number. Figure 3-2 is an example of the oxygen sensor data sheet. Responses to the surveys are discussed in Section 3.2.

3.1.3 Survey of Aftermarket Oxygen Sensor Manufacturers

Aftermarket oxygen sensor manufacturers were identified from directories of automotive industry associations and automotive component manufacturing firms. These directories were obtained from the Automotive News 1987 Market Data Book. Automotive industry associations were asked to identify companies involved in the manufacture of oxygen sensors. The directory of automotive component manufacturing firms contained a listing of products

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
84	EHN1.5V3FCF0	91.0 / 1.5	_____		_____	CIVIC CIVIC COUPE CIVIC WAGON	_____ _____ _____
84	EHN1.5V3FDCX	91.0 / 1.5	_____		_____	CIVIC CIVIC COUPE CIVIC WAGON	_____ _____ _____
84	EHN1.8V0FGF3	112.0 / 1.8	_____		_____	PRELUDE	_____
84	EHN1.8V0FHC2	112.0 / 1.8	_____		_____	PRELUDE	_____
84	EHN1.8V3FEF0	112.0 / 1.8	_____		_____	ACCORD	_____
84	EHN1.8V3FFCX	112.0 / 1.8	_____		_____	ACCORD	_____
85	FHN1.5V3FCF1	91.0 / 1.5	_____		_____	CIVIC CIVIC COUPE CIVIC WAGON	_____ _____ _____
85	FHN1.5V3FDC0	91.0 / 1.5	_____		_____	CIVIC CIVIC COUPE CIVIC WAGON	_____ _____ _____
85	FHN1.5V3FTF1	91.0 / 1.5	_____		_____	CIVIC WAGON 4WD	_____
85	FHN1.5V5FLF9	91.0 / 1.5	_____		_____	CIVIC COUPE	_____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
85	FHN1.8V0FGF4	112.0 / 1.8	_____		_____	PRELUDE	_____
85	FHN1.8V0FHC3	112.0 / 1.8	_____		_____	PRELUDE	_____
85	FHN1.8V3FEF1	112.0 / 1.8	_____		_____	ACCORD	_____
85	FHN1.8V3FFC0	112.0 / 1.8	_____		_____	ACCORD	_____
85	FHN1.8V3FWF3	112.0 / 1.8	_____		_____	ACCORD	_____
85	FHN1.8V3FXF5	112.0 / 1.8	_____		_____	ACCORD	_____
85	FHN1.8V3FYC4	112.0 / 1.8	_____		_____	ACCORD	_____
85	FHN1.8V5FNF9	112.0 / 1.8	_____		_____	ACCORD	_____
85	FHN2.0V5FAF5	119.0 / 2.0	_____		_____	PRELUDE	_____

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Figure 3-1. (Continued)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: _____

Suggested Retail Cost: \$ _____

Recommended Change Interval: Miles _____ or Years _____

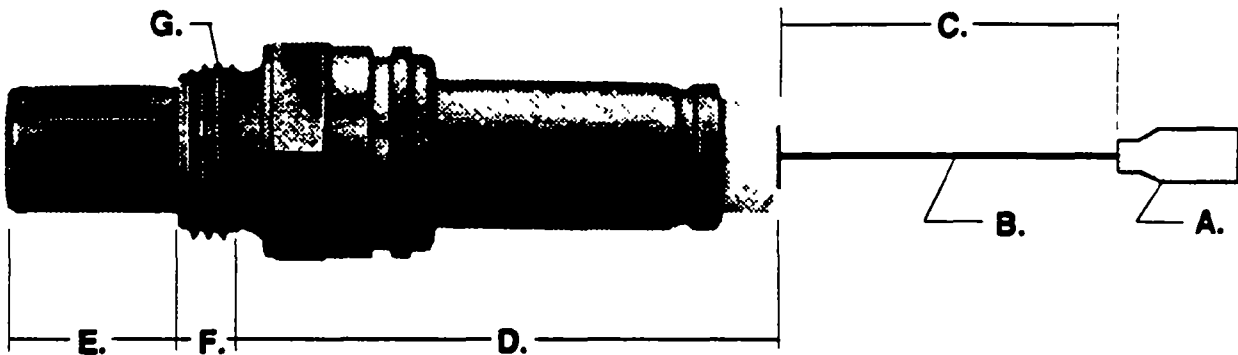
Oxygen Sensor Type (check one): _____ Heated _____ Non - heated

Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe _____ Not - specified

Sensor Material (check one): _____ Zirconia _____ Titania, or
 _____ Other (specify material) _____

Voltage Output Range: _____ Vmin to _____ Vmax (volts)

Sensor Switch Point: _____ Volts



A. Type of Electrical Connector: _____

B. Number of Wire(s) attached to Sensor: _____

C. Wire Length: _____ millimeters

D. Length of Sensor above the Threads: _____ millimeters

E. Length of Sensor below the Threads: _____ millimeters

F. Thread Length: _____ millimeters

G. Thread Size and Class of Fit: _____ (eg. 18 mm x 1-1/2, Class A)

Figure 3-2. Survey Section 2 - Oxygen Sensor Data Sheet.

produced by each firm. A screening of the products manufactured, plus the information gathered from the associations produced a list of 31 firms potentially involved in the manufacture of oxygen sensors.

All firms were contacted to verify that they manufacture oxygen sensors and that the sensors are used for aftermarket applications. Firms that manufacture oxygen sensors only for automobile manufacturers were not included in the final survey list. From the initial list of 31 companies, a final list of five companies was developed. The aftermarket manufacturers surveyed included:

- Echlin Corporation;
- Autolite Division of Allied Signal;
- Tomco Incorporated;
- Standard Motor Products; and
- Robert Bosch Corporation.

A contact was established at each aftermarket manufacturer except for Standard Motor Products which declined to provide a contact. Each contact was asked to complete and return a survey form within the required time. Surveys were sent to each contact along with a cover letter telling them how to properly complete the survey. A copy of the survey sent to Echlin Corporation is included as Figure 3-3.

The survey consisted of an oxygen sensor data sheet similar to the one sent to automobile manufacturers. The aftermarket companies were asked to complete one sheet for each oxygen sensor they manufacture for any 1980-86 vehicle. One side of the data sheet asked for the same oxygen sensor-specific information that was requested from the automobile manufacturers. The other side requested vehicle application information for the part number listed on the front side. The application information consisted of vehicle makes, models, model years, and engine families or size. Survey responses from the aftermarket manufacturers are discussed in Section 3.3.

March 28, 1988

245-076-01-04

Mr. Rick Taylor
Echlin Corporation
Route 1
Branford, CT 06405

Dear Mr. Taylor:

This letter is a request for your cooperation with an Environmental Protection Agency (EPA) study. Radian Corporation is performing this work for the EPA on contract number 68-03-3474 under the guidance of Mr. William Clemmens. The intent of this study is to determine the functional specifications of original equipment and aftermarket manufacture oxygen sensors. A secondary goal is to quantitatively determine the suggested retail cost of oxygen sensors.

Information on original equipment manufacture (OEM) oxygen sensors has been requested directly from the automobile manufacturers of interest. We would like you to supply information on all aftermarket oxygen sensors, that you manufacture, that have applications to any vehicle from model years 1980-86 made by the automobile manufacturers of interest. Attachment A to this letter is a list of the above mentioned automobile manufacturers.

Attachment B is an oxygen sensor data sheet. Please complete a separate data sheet for each oxygen sensor part number that meets the above criteria. Five copies of Attachment B have been included. Feel free to make additional copies if they are needed.

Please note that Attachment B is two sided. The front side requests functional and constructional specifications and the back side requests information on the application(s) of that part number. It is very important to this study to have complete application(s) information.

In order to meet our deadline we need to receive your input by April 15, 1988. A self-addressed, stamped envelope has been included to simplify the return of the oxygen sensor data sheets.

10395 Old Placerville Rd./Sacramento, California 95827/(916)362-5332

Figure 3-3. Example Survey for Aftermarket Oxygen Sensor Manufacturers.

Mr. Rick Taylor
March 28, 1988
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If you have any questions regarding the oxygen sensor data sheet, or project deadline, please call me, David Wright, (or Chuck Beyer) at (916) 362-5332. If you have questions for the EPA regarding the data request please contact Mr. William Clemmens at (313) 668-4337. Thank you for your assistance with this project.

Sincerely,



David Wright
Staff Engineer

/gl

Attachments

Figure 3-3. (Continued)

ATTACHMENT A

MANUFACTURERS OF INTEREST

AMC/Jeep
Chrysler Corporation
Ford Motor Company
General Motors
Honda
Nissan
Mitsubishi
Mazda
Toyota
Volkswagon
Subaru

Figure 3-3. (Continued)

Aftermarket Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number that has an application to any 1980-1986 model year vehicle from any of the manufacturers listed on Attachment A.

Oxygen Sensor Part Number: _____

Suggested Retail Cost: \$ _____

Recommended Change Interval: Miles _____ or Years _____

Oxygen Sensor Type (check one): _____ Heated _____ Non - heated

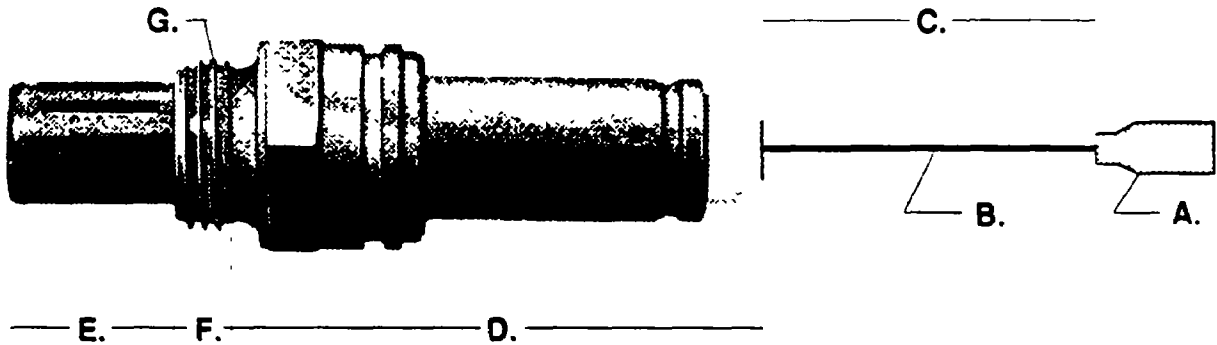
Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe _____ Not - specified

Sensor Material (check one): _____ Zirconia _____ Titania, or
 _____ Other (specify material) _____

Voltage Output Range: _____ Vmin to _____ Vmax (volts)

Does the Sensor Switch around 14.7:1? _____ Yes _____ No

If no, what Air / Fuel ratio does it Switch at? _____ A / F Ratio



A. Type of Electrical Connector: _____ (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: _____

C. Wire Length: _____ millimeters

D. Length of Sensor above the Threads: _____ millimeters

E. Length of Sensor below the Threads: _____ millimeters

F. Thread Length: _____ millimeters

G.-Thread Size and Class of Fit: _____ (eg. 18 mm x 1-1/2, Class A)

- over -

Figure 3-3. (Continued)

3.1.4 Additional Methods of Data Collection

One automobile company, Honda, declined to respond to the survey. Other automobile manufacturers and aftermarket companies did not fully complete the survey forms or responded with alternate information not requested in the survey. A variety of methods were used to fill in these holes in the data set. Since these methods varied for each manufacturer they will be discussed along with the manufacturer responses in Sections 3.2 and 3.3.

Some automobile manufacturers did not supply any oxygen sensor specific information on some or all of their oxygen sensors. However, the oxygen sensor part numbers were identified by the manufacturer or Radian. Radian purchased these sensors and identified the following parameters:

- Type of electrical connector;
- Number of wires attached to sensor;
- Wire length;
- Length of sensor above the threads;
- Length of sensor below the threads;
- Thread length; and
- Thread size.

In addition, based on the number of wires, an estimate was made regarding the sensor type, heated or nonheated. Manufacturers were contacted when possible to determine the sensor switch point and material. The sensor material was assumed to be zirconia and the switch point was assumed to be 14.7 when manufacturers could not be contacted.

Radian also attempted to identify the criteria used by aftermarket oxygen sensor manufacturers to determine oxygen sensor applications. This effort was performed concurrently with the purchase and measurement effort. It became apparent that the effort to identify aftermarket application criteria would take much more time than allowed and the effort was subsequently dropped.

3.2 Automobile Manufacturer Survey Responses

This section discusses the survey responses, issues and problems, and alternative sources of data for each automobile manufacturer. Copies of most automobile manufacturer responses have been included in Appendix A.

3.2.1 AMC/Jeep

The response from AMC/Jeep was included with the response from Chrysler Corporation. The survey response shows that AMC/Jeep currently uses only three oxygen sensors for the model years of interest. Only one oxygen sensor data sheet was completed. Oxygen sensor data for the other two part numbers were obtained by purchasing and measuring the sensors. A copy of the response from AMC/Jeep can be found in Appendix A.

3.2.2 Chrysler Corporation

Chrysler Corporation indicated that they use three different oxygen sensors for the model years of interest. A copy of their response can be found in Appendix A. Again, the only thing missing was one oxygen sensor data sheet. Data sheets were completely filled out for the other two sensors. Oxygen sensor data for the sensor part number without a data sheet were obtained by purchasing and measuring the oxygen sensor.

For some combinations of model year/engine family Chrysler listed two oxygen sensor part numbers. An example of this, model year 1984, engine family ECR2.2V2HAC4, shows both part numbers 4301375 and 4301346 as being recommended part numbers. Chrysler verified that this is correct. The only noticeable difference between the sensors is the splash protection category and suggested retail price.

3.2.3 Ford Motor Company

Ford claimed that oxygen sensor-specific information was not readily available and that to compile the information they would have to search

through the original handwritten engineering specifications. They also declined to compile oxygen sensor application information but they did supply enough raw data so that Radian could compile this information. A copy of Ford's response letter is included as Figure 3-4. Ford's response is not included in Appendix A because the amount of raw data they supplied would require a separate volume to this report.

Compiling Ford oxygen sensor information required determining the appropriate parts lists for each model of interest. The parts lists were then reviewed to determine the appropriate oxygen sensor part number. Figure 3-5 is from Ford's model application to parts list cross-reference. The 1984 Escort 4 cylinder, EFI, 98 cid, nonturbocharged model [4 cyl. 98 (E.F.I.) exc. TC (1.6L)] is shown in the middle of the left hand column of the first page of Figure 3-5. Only three different parts list numbers--350, 377, and 351--exist for this model. The last two pages of Figure 3-5 are copies of these three parts lists. On the lists it can be seen that oxygen sensor part number E3FZ 9F472-A is used with each parts list. Therefore all 1984 Escorts with a 98 cid EFI nonturbocharged engine use oxygen sensor part number E3FZ 9F472-A.

This method was used to find oxygen sensor application information for all Ford engine family/model combinations in the EPA CAFE database. Nine oxygen sensor part numbers were identified. However, since the EPA data was missing for 1986 Fords, no application information could be determined for that model year. Also, there was no oxygen sensor-specific information for any of the nine part numbers identified because Ford declined to complete the oxygen sensor data sheets.

A local Ford dealer's service department was contacted for retail price information. The parts manager indicated that three of the Ford part numbers (D9FZ 9F472-A, EOFZ 9F472-B, and E1AZ 9F472-A) had been replaced by a single part number (E3FZ 9F472-A). Since this part number was also identified on the Ford parts lists, there were now six part numbers for which there was no oxygen sensor specific data.



Environmental and Safety
Engineering Staff
Ford Motor Company

The American Road
Dearborn, Michigan 48121
May 10, 1988

Mr. David Wright
Radian Corporation
10395 Old Placerville Road
Sacramento, California 95827

Dear Mr. Wright,

In response to your request for exhaust gas oxygen (EGO) sensor information, we have compiled the enclosed lists. These lists include all EGO sensors applicable to 1980-88 model years and their applications. The body/engine tables can be cross referenced to calibration descriptions which describe each calibration by part numbers, including EGO sensors.

We are unable to supply EGO sensor parameters since the information is not readily available. We can, however, tell you that the current list price for most Ford EGO sensors is about \$50.00.

If you have any further questions on this matter, please contact Brian Rippon on (313)-390-2390.

Sincerely,

A handwritten signature in cursive script that reads "Richard W. Bell".

Richard W. Bell
Surveillance and Compliance
Department
Automotive Emissions and Fuel
Economy Office

Figure 3-4. Ford's Response Letter

MODEL APPLICATION TO PARTS LIST CROSS REFERENCE CHART

APPLICATION	CALIBRATION CODE	PARTS LIST NUMBER	APPLICATION	CALIBRATION CODE	PARTS LIST NUMBER
1984					
A (FORD), MA (MERCURY) 8 CYL. 302 (5.0L)			G (LTD), MG (MARQUIS) 4 CYL. 140 (2.3L)		
AOT	4-22B-R0	386	A/T -- exc Calif	4-08A-R10	355
AOT	4-22H-R0	389	A/T -- Calif	4-08N-R0	374
AOT -- Calif	4-22Q-R0	371	A/T -- Canada	4-08H-R0	358
AOT -- Canada	2-20H-R0	208	A/T -- Canada	4-08H-R10	384
8 CYL. 351W (5.8L)			6 CYL. 230-exc. C.F.I. (3.8L)		
AOT	4-24P-R0	372	C5 -- exc Calif	4-14B-R11	370
AOT -- Canada	4-24P-R11	373	(54) -- C5-Canada	4-14G-R0	359
W (ESCORT), MW (LYNX) 4 CYL. 98-exc. H.O. and E.F.I. (1.8L)			C5 -- Canada	4-14G-R03	383
MTX -- without A/C and/or P/S -- exc Calif	4-03F-R0	340	C5 -- Canada	4-14G-R10	277
MTX -- exc Calif	4-03K-R0	342	6 CYL. 230-C.F.I. (3.8L)		
MTX -- exc Calif	4-03K-R10	381	AOT -- exc Calif	4-16B-R0	361
MTX -- Calif	4-03P-R0	343	AOT -- exc Calif	4-16B-R10	421
MTX -- Calif	4-03P-R10	396	AOT -- Calif	4-16N-R0	363
MTX -- Canada	4-03G-R0	341	AOT -- Calif	4-16N-R10	422
MTX -- Canada	4-03G-R10	398	C5 -- exc Calif	4-16F-R0	362
4 CYL. 98-H.O. (1.6L)			C5 -- exc Calif	4-16F-R11	445
MTX -- exc Calif	4-03A-R0	344	C5 -- Calif	4-16S-R0	365
MTX -- Calif	4-03S-R0	346	8 CYL. 302-C.F.I. (5.0L)		
MTX -- Canada	4-03H-R0	345	AOT	4-22A-R13	390
ATX -- exc Calif	4-04A-R14	347	AOT -- Calif	4-22P-R12	391
ATX -- exc Calif	4-04A-R16	387	F (MUSTANG), J (CAPRI) 4 CYL. 140 exc. (E.F.I.)-TC (2.3L)		
ATX -- Calif	4-04S-R12	349	M/T -- exc Calif	4-05A-R0	352
ATX -- Canada	4-04H-R0	348	M/T	4-05B-R0	353
4 CYL. 98 (E.F.I.) exc. TC (1.6L)			M/T -- Canada	4-05H-R0	354
MTX	4-27A-R0	350	A/T -- exc Calif	4-06A-R10	355
MTX	4-27A-R02	377	A/T -- Calif	4-06N-R0	374
ATX	4-28A-R0	351	A/T -- Canada	4-06H-R0	358
4 CYL. 98 (E.F.I.)-TC (1.6L)			A/T -- Canada	4-06H-R10	384
MTX	4-27T-R0	397	4 CYL. 140 (E.F.I.)-TC (2.3L)		
4 CYL. 122 (2.0L)-Diesel			F (SVO) -- M/T	4-05S-R0	388
5/S MTX -- exc Calif	4-37A-R0	393	5/M/OD/T	3-05E-R12	357
5/S MTX	4-37B-R0	394	5/M/OD/T	4-06E-R0	358
C (EXP) 4 CYL. 98-exc. H.O. and E.F.I. (1.6L)			6 CYL. 230-exc. C.F.I. (3.8L)		
MTX -- exc Calif	4-03K-R0	342	C5 -- Canada	4-14G-R03	383
MTX -- Calif	4-03P-R0	343	C5 -- Canada	4-14G-R10	277
MTX -- Canada	4-03G-R0	341	6 CYL. 230-C.F.I. (3.8L)		
4 CYL. 98-H.O. (1.6L)			A/T -- exc Calif	4-16A-R0	360
MTX -- exc Calif	4-03A-R0	344	A/T -- Calif	4-16P-R0	364
MTX -- Calif	4-03S-R0	346	8 CYL. 302-C.F.I. (5.0L)		
MTX -- Canada	4-03H-R0	345	AOT -- exc Calif	4-22A-R13	390
ATX -- exc Calif	4-04A-R14	347	AOT -- Calif	4-22P-R12	391
ATX -- exc Calif	4-04A-R16	387	8 CYL. 302-H.O. (5.0L)		
ATX -- Calif	4-04S-R12	349	M/T -- exc Calif	4-21A-R02	382
ATX -- Canada	4-04H-R0	348	M/T -- exc Calif and Canada	4-21A-R15	392
4 CYL. 98 (E.F.I.) exc TC (1.6L)			M/T -- exc Calif	4-21A-R17	399
ATX	4-28A-R0	351	M/T -- Calif	4-21P-R0	385
4 CYL. 98 (E.F.I.)-TC (1.6L)			M/T -- Calif and Canada	4-21P-R12	389
MTX	4-27T-R0	397	M/T -- Calif and Canada	4-21P-R13	400
			M/T -- Calif and Canada	4-21P-R14	442

September, 1987

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Figure 3-5. Ford's Model Application to Parts Loss Cross Reference Chart

**1980/
FORD/LINCOLN MERCURY CARS**

CTION 938 181

QTY	PART NUMBER	DESCRIPTION	QTY	PART NUMBER	DESCRIPTION
CALIBRATION PARTS LIST NO. 350 (Calibration No 4-27A-RO) - 4 Cyl 98 (E F I) CID (1.6L) 1984 Escort/Lynx - - MTX			CALIBRATION PARTS LIST NO. 351 (Calibration No 4-28A-RO) - 4 Cyl 98 (E F I) CID (1.6L) 1984 Escort/Lynx - - ATX		
1	E4FZ 9J431-A	Regulator assy (EGR) #E4EE 9J431-AA	1	E4FZ 9J431-A	Regulator assy (EGR) #E4EE 9J431-AA
1	E3FZ 9F472-A	Sensor assy (exhaust gas oxygen) #E3BF 9F472-AA, E3EF 9F472-AA, E47F 9F472-AA, E4TF 9F472-AA	1	E3FZ 9F472-A	Sensor assy (exhaust gas oxygen) #E3BF 9F472-AA, E3EF 9F472-AA, E47F 9F472-AA, E4TF 9F472-AA
1	E3FZ 9D474-C	Valve assy (EGR solenoid vacuum) #E3EE 9D474-C3A	1	E3FZ 9D474-C	Valve assy (EGR solenoid vacuum)-1984/ #E3EE 9D474-C3A
1	E4FZ 9D475-A *CX-967	Valve assy (EGR) #E4EE 9D475-A1A,A2A	1	E1FZ 9D474-C	Valve assy (EGR solenoid vacuum)-1985 #E3EE 9D474-A2A,A3A
1	E3FZ 9F485-D	Connector (E.G.R valve tube to manifold)	1	E4FZ 9D475-A *CX-967	Valve assy (EGR) #E4EE 9D475-A1A,A2A
1	E3FZ 9A487-B *CX-772	Valve assy (thermactor check)	1	E4FZ 9F485-C	Connector (E.G.R valve tube to manifold)
1	* 9H487 Service details	Fuel charging manifold assy #E3EE-PB, E4EE-BA,BB Note Refer to illustration section 93 for serviceable details	1	E3FZ 9A487-B *CX-772	Valve assy (thermactor check)
1	D7FZ 9E607-A *CX-109	Sensor assy (carburetor air cleaner air temperature control)	1	* 9H487 Service details	Fuel charging manifold assy #E3EE-NB, E4EE-AB Note Refer to illustration section 93 for serviceable details
1	E2SZ 9D612-A *CX-682	Motor assy (carburetor air cleaner vacuum)	1	D7FZ 9E607-A *CX-109	Sensor assy (carburetor air cleaner air temperature control)
1	E3FZ 9F715-A	Valve assy (throttle air by-pass) #E3EE 9F715-A1A,A2A,A1B	1	E2SZ 9D612-A *CX-682	Motor assy (carburetor air cleaner vacuum)
1	E3FZ 9C968-A	Regulator assy (fuel charging pressure) #E3EE 9C968-AA	1	E3FZ 9F715-A	Valve assy (throttle air by-pass) #E3EE 9F715-A1A,A2A,A1B
1	E3FZ 9B989-A *CX-855	Potentiometer assy (throttle position sensor) #E3EF 9B989-AA	1	E3FZ 9C968-A	Regulator assy (fuel charging pressure) #E3EE 9C968-AA
1	E3FZ 12127-B *DA-1889	Distributor assy #E3EE 12127-BA, E4EE 12127-HA	1	E3FZ 9B989-A *CX-855	Potentiometer assy (throttle position sensor) #E3EF 9B989-AA-1984/
1	D9ZZ 12A225-A	Restrictor assy (distributor vacuum) Code color yellow	1	E5FZ 9B989-C *CX-1018	Potentiometer assy (throttle position sensor) #E5EF 9B989-CA-1985
1	E3GZ 12B529-B	Sensor assy (electronic control air) #E3GF 12B529-BA	1	E4PZ 12A112-A *DU-29	Stator assy (distributor)-PIP sensor #E3ZE 12A112-CA, E4PE 12A112-A3A
1	E3ZZ 12A644-A *DY-405	Sensor assy (engine control barometric pressure) #E3ZF 12A644-B1A, E4ZF 12A644-AA	1	E3FZ 12127-B *DA-1889	Distributor assy #E3EE 12127-BA, E4EE 12127-HA
1	E1AZ 12A648-A *DY-303	Sensor assy (engine electronic control coolant temperature) #E4AF 12A648-AA	1	D9ZZ 12A225-A	Restrictor assy (distributor vacuum) Color code yellow
1	E4GZ 12A650-A	Processor and calibrator assy (E E C IV) #E4GF 12A650-A1A,A2A	1	E3GZ 12B529-B	Sensor assy (electronic control air) #E3GF 12B529-BA
			1	E3ZZ 12A644-A *DY-405	Sensor assy (engine control barometric pressure) #E3ZF 12A644-B1A, E4ZF 12A644-AA
			1	E1AZ 12A648-A *DY-303	Sensor assy (engine electronic control coolant temperature) #E4AF 12A648-AA
			1	E4GZ 12A650-B	Processor and calibrator assy (E E C IV) #E4GF 12A650-B1A,B2A

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Figure 3-5. (Continued)

**1980/
FORD/LINCOLN MERCURY CARS**

QTY	PART NUMBER	DESCRIPTION	QTY	PART NUMBER	DESCRIPTION
CALIBRATION PARTS LIST NO. 376 (Calibration No 4-22T-R10)-8 Cyl 302 C1D (5 QL) 1984 Thunderbird/Cougar -- AOT			CALIBRATION PARTS LIST NO. 377 (Calibration No 4-27A-R02) - 4 Cyl 98 (EF1) C1D (16L) 1984/ Escort/Lynx -- MTX		
1	E1TZ 98289-C *CX-580	Valve assy (thermactor air by-pass) #E1TE 98289-GA	1	E4FZ 9J431-A	Regulator assy (E G R) #E4EE 9J431-AA
1	E1SZ 9A427-A	Valve assy (exhaust heat control) #E1SE 9A427-AA, E2SE 9A427-AA	1	E3FZ 9F472-A	Sensor assy (exhaust gas oxygen) #E3BF 9F472-AA, E3EF 9F472-AA, E47F 9F472-AA, E4TF 9F472-AA
2	D4DZ 9E453-A	Reservoir assy (E G R vacuum) #D4DE 9E453-AA	1	E3FZ 9D474-C	Valve assy (E G R solenoid vacuum)-1984/ #E3EE 9D474-C3A
1	E1TZ 9F464-A	Cooler assy (E G R) #E1TE 9F464-AA	1	E1FZ 9D474-C	Valve assy (E G R solenoid vacuum)-1985 #E3EE 9D474-A2A,A3A
1	E3FZ 9F472-A	Sensor assy (exhaust gas oxygen) #E3BF 9F472-AA, E3EF 9F472-AA, E47F 9F472-AA, E4TF 9F472-AA	1	E4FZ 9D475-A *CX-987	Valve assy (E G R) #E4EE 9D475-A1A,A2A
2	E4ZZ 9D474-D	Valve assy (E G R solenoid vacuum) #E4ZE 9D474-D2A,D3A	1	E3FZ 9F488-D	Connector (E G R valve tube to manifold)
3	E3SY 9D474-D	Valve assy (E G R solenoid vacuum) #E3SE 9D474-D2A,D3A,E3A	1	E3FZ 9A487-B *CX-772	Valve assy (thermactor check)
1	E4ZZ 9D474-E	Valve assy (E G R solenoid vacuum) #E4ZE 9D474-E2A,E3A	1	★ 9H487 Service details	Fuel charging manifold assy #E3EE-PB, E4EE-BA,BB Note Refer to illustration section 93 for serviceable details
1	E3SY 9D474-A	Valve assy (E G R solenoid vacuum) #E3SE 9D474-A2A,FA	1	D7FZ 9E607-A *CX-109	Sensor assy (carburetor air cleaner air temperature control)
1	E4ZZ 9D474-F	Valve assy (E G R solenoid vacuum) #E4ZE 9D474-FA	1	E2SZ 9D612-A *CX-682	Motor assy (carburetor air cleaner vacuum)
1	E43Z 9F479-B *DY-430-A	Sensor assy (manifold absolute pressure) #E43F 9F479-B1A,B2A	1	E3FZ 9F715-A	Valve assy (throttle air by-pass) #E3EE 9F715-A1A,A2A,A1B
1	E4SY 9F483-A *CX-980	Valve assy (E G R pressure external) #E4SE 9F483-A2A,A3A	1	E3FZ 9C988-A	Regulator assy (fuel charging pressure) #E3EE 9C988-AA
1	E5AZ 9F483-A *CX-980-A	Valve assy (E G R pressure external) #E5AE 9F483-A2A,A4A	1	E3FZ 9B989-A *CX-855	Potentiometer assy (throttle position sensor) #E3EF 9B989-AA-1984/
1	E1AZ 9A486-A *CX-624	Pump assy (thermactor) #E1AE 9A486-A1A, A2A	1	E5FZ 9B989-C *CX-1018	Potentiometer assy (throttle position sensor) #E5EF 9B989-CA-1985
1	D4VY 9A487-A	Valve assy (thermactor check)-3/4-14" thread one end-hose nipple one end-(UPSTREAM)	1	E4PZ 12A112-A *DU-29	Stator assy (distributor)-PIP sensor #E3ZE 12A112-CA, E4PE 12A112-A3A
1	E3TZ 9A487-A *CX-760	Valve assy (thermactor check)-hose nipple both ends-(DOWNSTREAM)	1	E3FZ 12127-B *DA-1889	Distributor assy #E3EE 12127-BA, E4EE 12127-HA
1	E4SZ 9F491-B *CX-948	Valve assy (thermactor control) #E4SE 9F491-BA	1	D6DZ 12A225-A	Restrictor assy (distributor vacuum) Code color red
1	E3TZ 9F491-A *CX-899	Valve assy (thermactor control) #E1TE 9F491-AB E47E 9F491-BA	1	E3GZ 12B529-B	Sensor assy (electronic control air) #E3GF 12B529-BA
1	D7FZ 9E607-B *CX-122	Sensor assy (carburetor air cleaner air temperature control)	1	E3ZZ 12A644-A *DY-405	Sensor assy (engine control barometric pressure) #E3ZF 12A644-B1A E4ZF 12A644-AA
1	D7TZ 9D612-B *CX-120	Motor assy (carburetor air cleaner vacuum)	1	E1AZ 12A648-A *DY-303	Sensor assy (engine electronic control coolant temperature) #E4AF 12A648-AA
1	E4AZ 9C973-C	Charging assy -fuel (CFI) #E4AE-FB (Component Parts List No 957E)	1	E4GZ 12A650-A	Processor and calibrator assy (E E C IV) #E4GF 12A650-A1A,A2A
1	E4TZ 12127-B *DA-1970	Distributor assy #E4TE 12127-BA			
1	E1AZ 12A648-A *DY-303	Sensor assy (engine electronic control coolant temperature) #E1AF 12A648-AA, E4AF 12A648-AA			
1	E4VZ 12A650-RA	Processor and calibrator assy (E E C IV) #E4VF 12A650-R1A,R2A			
1	E1AZ 12A697-A *DY-304	Sensor assy (air charge temperature) #E1AF 12A697-AA, E4AF 12A697-AA			

Figure 3-5. (Continued)

When Radian attempted to purchase these six oxygen sensors a year later, it was discovered that the six part numbers had been replaced by three new part numbers. New part number E6ZZ 9F472-A replaced part numbers E3FZ 9F472-A and E4BZ 9F472-A, new part number E63Z 9F472-A replaced part numbers E43Z 9F472-A and E53Z 9F472-B, and new part number E6TZ 9F472-A replaced part numbers E59Z 9F472-A and E4ZZ 9F472-A. The three new oxygen sensors were purchased and measured by Radian.

3.2.4 General Motors

The response from General Motors is included in Appendix A. They completed oxygen sensor data sheets for each of the five sensors they currently use, but did not compile the sensor application information. However, like Ford, they did include sufficient information so that the application information could be compiled by Radian.

General Motors supplied listings of model year and engine option codes used with each oxygen sensor part number. An additional listing cross-referenced the engine option code with the displacement, fuel induction system, number of cylinders, and other descriptors for that particular engine. Engine families belonging to each engine option code were identified by cross-referencing the engine option code descriptors with data in the EPA CAFE database. Only two of the five oxygen sensor part numbers have applications in the 1980-86 model years.

3.2.5 Honda

Although Honda declined to respond to the survey, Radian worked with Honda dealerships to obtain oxygen sensor part number and application information. A parts manager at a local dealership supplied Radian with photocopies of parts lists from Honda service manuals for the models and model years requested. Unfortunately he could not locate any oxygen sensor-specific information. Radian had to purchase and measure the oxygen sensors to obtain this information.

3.2.6 Nissan

The response from Nissan was complete and is included in Appendix A. They use 15 oxygen sensor part numbers and supplied sensor specific information for each one of them. Many engine families had multiple oxygen sensor applications. Nissan verified that this is true and that the different part numbers are equivalent for that application. The multiple part numbers are the result of using different suppliers.

3.2.7 Mitsubishi

Mitsubishi's response was complete and is included in Appendix A. They currently use seven different oxygen sensors ranging in suggested price from \$160.95 to \$272.52. A completed oxygen sensor data sheet was supplied for each sensor.

3.2.8 Mazda

The response from Mazda was complete and is included in Appendix A. Mazda currently uses ten oxygen sensors. Over half of the Mazda engine families have two oxygen sensor part numbers recommended for use. Mazda states that these sensors are equivalent for the recommended applications and that the part numbers are different because of different suppliers.

3.2.9 Toyota

The response from Toyota was complete and can be found in Appendix A. Toyota currently uses 8 oxygen sensors. An oxygen sensor data sheet was completed for each sensor.

3.2.10 Volkswagen

The response from Volkswagen was not complete. They supplied oxygen sensor application information but claimed that the oxygen sensor-specific

information was proprietary. The application information was actually supplied in two formats: Attachment A to the survey and a table listing model, engine displacement, model year, and oxygen sensor part number. The table was used to determine application information because it was more readable than Attachment A as completed. A copy of the response is included in Appendix A. Radian purchased and measured the Volkswagen oxygen sensors to obtain the oxygen sensor-specific information.

3.3 Aftermarket Manufacturer Survey Responses

3.3.1 Echlin Corporation

Echlin Corporation manufactures and distributes oxygen sensors. They also sell the same line of sensors to Borg-Warner and Niehoff parts distributors. Their survey response shows that they manufacture 15 different oxygen sensors. Echlin provided a list which cross-referenced their oxygen sensor part numbers with the Borg-Warner and Niehoff part numbers. An oxygen sensor data sheet with application information was completed for each of the 15 sensors. The oxygen sensor application information was checked against the most current Echlin parts catalog for accuracy and completeness. No inconsistencies were identified in the application information.

3.3.2 Autolite Division of Allied Signal

Autolite responded to the survey by copying oxygen sensor application information from their most recent parts catalog and completing one general oxygen sensor data sheet. From the catalog it was determined that Autolite manufactures 11 different oxygen sensors, 8 of which have applications to models in the years of interest. Suggested retail price information was obtained from a Southern California-based automotive parts store.

3.3.3 Tomco Incorporated

Initial conversations with Tomco Inc. indicated that they manufactured oxygen sensors. However, their survey response showed that they do not

manufacture oxygen sensors, but rather add electrical connectors to sensors manufactured by other companies. For this reason Tomco Inc. oxygen sensors were not included in the final analysis. A copy of their response letter is included as Figure 3-6.

3.3.4 Standard Motor Products

Standard Motor Products response was thought to be complete. They returned the original survey cover letter with their response but did not include a letter of their own. An unsuccessful attempt was made to contact the person at Standard who completed the survey to resolve a misunderstanding of the listed part numbers.

A Standard Motor Products parts catalog was obtained to resolve the part number issue. The parts catalog indicated that 12 oxygen sensors were manufactured by Standard and 11 had applications for the model years of interest. The survey returned by Standard only showed five oxygen sensors being used. A decision was made to use the parts catalog information instead of that supplied by Standard Motor Products. Suggested retail price information was obtained from the Southern California-based automotive parts dealer.

3.3.5 Robert Bosch Corporation

Robert Bosch Corporation did not respond to the survey within the specified time. A follow-up call was made to the contact at Bosch, resulting in the disclosure that the "aftermarket" business they do is with Ford Motor Company. Ford then distributes the sensors under their label. These sensors are considered to be automobile manufacturer sensors for the purposes of this study.

Apparently there was still some misunderstanding about the definition of aftermarket oxygen sensors because the Bosch parts catalog showed sensors having applications to both domestic and foreign vehicles. It was

April 15, 1988

Mr. David Wright
Radian Corporation
10395 Old Placerville Road
Sacramento, CA 95827

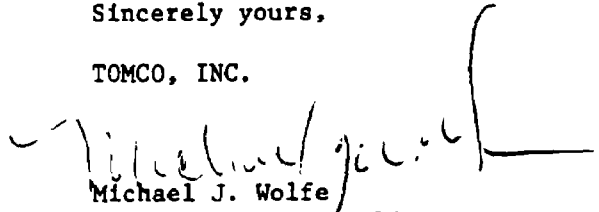
Dear David:

Tomco does not, at this time, manufacture Oxygen Sensors. We purchase completed sensors from various manufacturers who also make sensors for OEM. We then add the appropriate connector or terminal to fit specific applications, or add a universal weather proof connector to fit many applications.

The specifications supplied to you by OEM would be equivalent to the sensor we are now using.

Sincerely yours,

TOMCO, INC.



Michael J. Wolfe
Technical Services Director

MJW:dm

cc: Bob Killion
Buzz Thompson

verified that these vehicles have different automobile manufacturer oxygen sensor part numbers. Therefore the information in the Bosch parts catalog was included for all vehicle makes in this study except Volkswagen. Volkswagen uses Bosch sensors as original equipment.

3.3.6 AC-Delco

Conversations with General Motors indicated that AC-Delco also distributes oxygen sensors in the aftermarket. Radian received an AC-Delco parts catalog along with General Motor's survey response. Aftermarket oxygen sensor application information was taken from the catalog for all vehicles except General Motors, which uses AC-Delco sensors as original equipment.

4.0 DATA REPORTING

All of the data collected in this study were entered into a database. The database contains four main files containing information on engines, vehicle models, and original equipment manufacture (OEM) and after-market oxygen sensors. Each file contains common identifiers so they may be related to each other. Five programs were written to manipulate the data and print tabular reports. Each program produces a different table. A full description of the database can be found in Appendix B.

The remainder of this section describes each table. The volume of Data Table 1 through Data Table 4 precludes them from being included in the text of this report, instead they can be found in Appendix C. A sample page from each data table is included in the text of this report.

4.1 Data Table 1. List of Engine Families, Vehicle Models, and Oxygen Sensor Applications

This table lists the engine families included in this study, the vehicle models in each engine family, and the recommended OEM oxygen sensors that can be used with each engine family. The table is ordered by vehicle manufacturer, model year, engine family, and model name. Figure 4-1 is an example page from this table.

Included with each engine family listing is a description of the engine. The description consists of the engine displacement, in liters, and any other special descriptors such as "TURBO", "DOHC", or "24 VALVE". The total sales of models using that engine family were also listed in the original table. However, the engine family sales data are confidential and are marked as such in this report.

The table lists all of the oxygen sensor specific information for each OEM oxygen sensor that can be applied to the engine family. Oxygen sensor specific information consists of the items listed below:

DATA TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	
				DIMENSIONAL CHARACTERISTICS		
NISSAN	82	D82 845FC9 / 2.0L TURBO / (CONFIDENTIAL)	280ZX 280ZX 2+2	PART NUMBER - A24-000372 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-600003 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 127.0 mm
				PART NUMBER - A24-600003 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 127.0 mm
NISSAN	83	D81 545FA1 / 1.5L TURBO / (CONFIDENTIAL)	PULSAR	PART NUMBER - A24-000372 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-600003 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 127.0 mm
				PART NUMBER - A24-600003 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 127.0 mm
NISSAN	83	D81 545FA6 / 1.5L / (CONFIDENTIAL)	NISSAN SENTRA	PART NUMBER - A24-000372 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-600003 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 127.0 mm
				PART NUMBER - A24-600003 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 127.0 mm
NISSAN	83	D82 2V5FA8 (b) / 2.0L / (CONFIDENTIAL)	NISSAN SENTRA W PULSAR	PART NUMBER - A24-000372 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-600003 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 127.0 mm
				PART NUMBER - A24-600003 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 127.0 mm

(continued)

(a) Number of vehicles sold with given engine family
 (b) More than one oxygen sensor part number can be used with this engine family.

Figure 4-1. Excerpt from Data Table 1 - List of Engine Families, Vehicle Models, and Oxygen Sensor Applications

- Oxygen sensor part number;
- Sensor type, heated or non-heated;
- Recommended replacement interval;
- Suggested retail price;
- Electrical connector type;
- Sensor material;
- Voltage output limits;
- Air/fuel ratio switch point;
- Splash protection;
- Number of wires connected to sensor;
- Sensor thread size;
- Sensor thread length;
- Length of sensor below the threads;
- Length of sensor above the threads; and
- Length of sensor wire(s).

4.2 Data Table 2. Comparison of OEM and Aftermarket Oxygen Sensor Applications

This data table lists the aftermarket oxygen sensors that can be used to replace each OEM sensor identified in this study. The table is sorted by automobile manufacturer and OEM sensor part number. An example page from Data Table 2 is shown in Figure 4-2. In addition to listing the aftermarket oxygen sensors that can replace each OEM sensor, the table also lists the total sales volume of the OEM sensor, the recommended retail price and replacement interval of the OEM sensor, and the OEM oxygen sensor applications.

The total sales volume for each OEM oxygen sensor is based on engine family sales data. However, there are many cases where an engine family can have more than one recommended OEM oxygen sensor. In these cases the estimated sales volume of one sensor part number is the engine family sales divided by the number of OEM oxygen sensors used with that engine family. In cases where an OEM oxygen sensor is used by only one engine family the sensor sales are marked "CONFIDENTIAL" because the engine family sales data are confidential.

DATA TABLE 2

VEHICLE MANUFACTURER	OEM SENSOR PART NUMBER	TOTAL SALES VOLUME (a)	RETAIL PRICE (b)	RECOMMENDED CHANGE OUT INTERVAL	AFTERMARKET SENSOR DATA			OEM SENSOR APPLICATIONS		
					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
AMC/JEEP	7700708955	15,077	\$140.00	NOT SPECIFIED	FRAM	02821	\$ 64.84	83	DML 45F6D5	ALLIANCE
					AC DELCO	213-7	\$ 50.30			
					NIBOFF	FEB05	\$ 52.01			
					BORG WARNER	05105	\$ 55.64			
					EDLJN	05400	\$ 64.10			
STANDARD	SE8	\$ 61.73								
AMC/JEEP	8833002455	843,689	\$ 37.70	50,000 MILES	FRAM	02784	\$ 64.84	81 (c)	DML 45F6D5	ALLIANCE/ENDURE
					FRAM	02820	\$ 59.33			
					FRAM	02821	\$ 64.84			
					AC DELCO	213-7	\$ 50.30			
					NIBOFF	FEB05	\$ 52.01			
					BORG WARNER	05105	\$ 55.64			
					EDLJN	05400	\$ 64.10			
					STANDARD	SE1	\$ 62.90			
					FRAM	02592/477				
					AC DELCO	213-7/484				
					NIBOFF	02592/4850				
					BORG WARNER	DML 45F6D5				
					EDLJN	CJ-5/7 4D				
STANDARD	CJ-5/CJ-7 4D									
AMC/JEEP	8853000886	CONFIDENTIAL (e)	\$ 45.00	NOT SPECIFIED	FRAM	02820	\$ 59.33	85	FAM17372/4C3	XJ
					STANDARD	SE5	\$ 59.93			
					FRAM	02747	\$ 52.86			
					FRAM	02788	\$ 52.86			
					AC DELCO	213-6	\$ 50.25			
					NIBOFF	FEB04	\$ 46.81			
					BORG WARNER	05101	\$ 50.10			
					EDLJN	05300	\$ 57.67			
					FRAM	02592/477				
					AC DELCO	213-7/484				
					NIBOFF	02592/4850				
					BORG WARNER	DML 45F6D5				
					EDLJN	CJ-5/7 4D				
STANDARD	CJ-5/CJ-7 4D									
CHRYSLER CORP	4301346	827,213	\$ 37.98	50,000 MILES	FRAM	02747	\$ 52.86	84 (c)	ED2 212/4C4	800
					FRAM	02788	\$ 52.86			
					AC DELCO	213-6	\$ 50.25			
					NIBOFF	FEB04	\$ 46.81			
					BORG WARNER	05101	\$ 50.10			
					EDLJN	05300	\$ 57.67			
					FRAM	02592/477				
					AC DELCO	213-7/484				
					NIBOFF	02592/4850				
					BORG WARNER	DML 45F6D5				
					EDLJN	CJ-5/7 4D				
					STANDARD	CJ-5/CJ-7 4D				

(continued)

(a) Based on engine family sales data. Oxygen sensor sales data have been split equally when multiple part numbers can be applied to the same engine family.
 (b) Manufacturer suggested retail price. Actual prices may vary.
 (c) This listing uses a compressed format. Models and engine families no longer have one on one relationship.
 (d) More than one oxygen sensor part number can be used with this engine family.
 (e) Engine family sales data are confidential, therefore oxygen sensor sales cannot be listed when the sensor is used by only one engine family.

Figure 4-2. Excerpt from Data Table 2 - Comparison of OEM and Aftermarket Oxygen Sensor Applications

For each OEM oxygen sensor, the table lists the model year, engine families in each model year, and vehicle models using each engine family. Some OEM oxygen sensors have applications spanning a number of model years and covering many models within each year. For these sensors a compressed application listing is used. The compressed listings are footnoted with a (c) and have a double bar (||) separating engine family and vehicle model data. The compressed listing does not list models in each engine family. It merely gives a unique list of engine families and model names. These models may or may not use each engine family in the list.

In some cases, more than one aftermarket sensor from the same manufacturer applies to a specific OEM sensor. For example, notice on Figure 4-2 that three Fram sensors, part numbers 02784, 02820, and 02821, are shown as replacements for AMC/Jeep sensor number 8933002455. According to the Fram catalog, Fram oxygen sensor applications are determined by vehicle make, vehicle type (LDV or LDT), number of engine cylinders, and model year. The reason for the diversity of the Fram sensors relative to the single OEM sensor is not clear.

4.3 Data Table 3. Comparison of OEM and Aftermarket Oxygen Sensor Applications, Ranked by OEM Sensor Suggested Retail Price

Data Table 3 is similar to Data Table 2 except that OEM oxygen sensors are sorted by descending suggested retail price. An example of Data Table 3 is presented in Figure 4-3. The table gives all known aftermarket oxygen sensors and their suggested price for each OEM sensor listed. Data Table 3 also includes the model years and vehicles that use the OEM sensor but it does not include the engine families.

Total sales volume of each OEM oxygen sensor was calculated using the same methodology as Table 2. A compressed listing of model year and vehicle models is used when an OEM sensor can be used in more than 30 combinations of vehicle models and model years. Again, care should be used when interpreting vehicle application data from a compressed listing because the vehicle models and model years no longer have a direct relationship.

DATA TABLE 3

VEHICLE MANUFACTURER	OEM SENSOR PART NUMBER	TOTAL SALES VOLUME (a)	AFTERMARKET SENSOR DATA			OEM SENSOR APPLICATIONS		
			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
NISSAN	A24-621	(continued)						
MAZDA	FE8618861	78,364	NIE-OFF	FE814	\$ 99.71	\$122.65	86	MAZDA MAZDA WAGON B2000
MAZDA	BE0118861	79,565	NO KNOWN AFTERMARKET APPLICATIONS			\$119.00	86	323
MAZDA	E56318861	130,157	NIE-OFF	FE812	\$ 99.71	\$119.00	83	626 GLC LASER
			NIE-OFF	FE813	\$ 99.71			
			BORG WARNER	OS112	\$ 99.71			
			BORG WARNER	OS113	\$ 99.71			
			ECHLIN	OS502	\$119.87		84	626
			ECHLIN	OS503	\$119.87			
			STANDARD	SG12	\$ 69.41		85	626
MAZDA	E56418861	59,881	NIE-OFF	FE813	\$ 99.71	\$119.00	84	GLC LASER
			BORG WARNER	OS113	\$ 99.71			
			ECHLIN	OS503	\$119.87			
			STANDARD	SG12	\$ 69.41		85	GLC LASER
MAZDA	E56518861	59,881	NIE-OFF	FE813	\$ 99.71	\$119.00	84	GLC LASER
			BORG WARNER	OS113	\$ 99.71			
			ECHLIN	OS503	\$119.87			
			STANDARD	SG12	\$ 69.41		85	GLC LASER
MAZDA	FE0518861	130,157	NIE-OFF	FE812	\$ 99.71	\$119.00	83	626 GLC LASER
			NIE-OFF	FE813	\$ 99.71			
			BORG WARNER	OS112	\$ 99.71			
			BORG WARNER	OS113	\$ 99.71		84	626
			ECHLIN	OS502	\$119.87			
			ECHLIN	OS503	\$119.87			
			STANDARD	SG12	\$ 69.41		85	626
MAZDA	FE8118861	47,064	NIE-OFF	FE812	\$ 99.71	\$119.00	86	626
MAZDA	FE8218861	47,064	NIE-OFF	FE812	\$ 99.71	\$119.00	86	626
MAZDA	NG0418861	17,840	NIE-OFF	FE813	\$ 99.71	\$119.00	84	RX-7

(a) Based on engine family sales data. Oxygen sensor sales data have been split equally when multiple part numbers can be applied to the same engine family.
 (b) Manufacturer suggested retail price. Actual price may vary.

Figure 4-3. Excerpt from Data Table 3 - Oxygen Sensor Data Sorted by Price.

4.4 Data Table 4. Oxygen Sensors with Similar Constructional and Dimensional Characteristics

Data Table 4 groups similar OEM oxygen sensors across OEM manufacturers and OEM product lines. Figure 4-4 presents an example of Data Table 4. The table is composed of subtables, one for each group of similar sensors. There are nine individual groupings in all. The grouping takes into account both constructional and dimensional characteristics of the oxygen sensors. These characteristics are listed at the top of each table.

The constructional characteristics considered are sensor material, sensor type, air/fuel ratio switch point, and number of wires. Constructional characteristics not considered in the groupings are voltage output limits, splash protection, and wire connector type. Voltage output limits and splash protection are listed in the table.

The dimensional characteristics used for grouping are the thread size and the thread length plus the insertion depth. The thread length plus the insertion depth was divided into 2 millimeter ranges to reduce the number of total groupings. The length of the sensor wire(s) was not included as criteria for sensor grouping but it is listed in the table.

4.5 Data Summary Tables on Sales of Vehicles with Replacement Oxygen Sensor Retail Prices Exceeding Certain Repair Cost Limits

Summary tables (Tables 5a and 5b in Appendix C) were prepared showing sales of closed loop vehicles that have OEM oxygen sensors that exceed different cost limits. both the number and percent of vehicles were calculated. These results also were displayed graphically (Figures 5a and 5b in Appendix C). Table 5a and Figure 5b are presented in the next section which discusses results.

5.0 ANALYSIS OF RESULTS

Results of this study have been broken down into four areas:

- General characteristics of oxygen sensors;
- Relationship between oxygen sensor prices and repair cost limits;
- Prices for oxygen sensors with similar characteristics; and
- Aftermarket sensor application.

Each is discussed below.

5.1 General Characteristics of Oxygen Sensors

Oxygen sensors are used on vehicles with feedback control systems. The sensor responds to the presence or lack of excess oxygen in the exhaust gas stream. The response for most current sensors is a 0 to 1 volt signal which is used by the engine controller to vary fuel flow rate to optimize the performance of the catalytic converter.

The active material in an oxygen sensor is either zirconia or titania. Most oxygen sensors are made of zirconia. All titania sensors are heated whereas zirconia sensors can be either heated or non-heated.

OEM manufacturer responses indicate that oxygen sensors have a 14.7 air/fuel ratio switch point. Minimum voltage output ranges from 0.0 - 0.2 volts and maximum voltage output ranges from 0.6 - 1.0 volts.

All oxygen sensors have one to three wires. One and two wire sensors are not heated, three wire sensors are heated. Three types of wire connectors are used: bullet, pin, and blade. Connector types can be either male or female. The database uses the descriptors "MALE" and "FEMALE" to

represent male blade and female blade type connectors. The descriptor "BLADE" is used in cases where male or female was not specified. Oxygen sensor wire length ranges from 63 to 1700 mm, with an average length of about 290 mm. Manufacturers were asked to specify the splash protection as low, moderate, severe, or not-specified. Responses from the manufacturers included all splash protection categories except low.

Currently no standard exists for oxygen sensor thread size. All threaded zirconia sensors had a thread size of 18mm x 1.5mm while all titania sensors had a thread size of 12mm x 1.25mm. The thread 'class of fit' varied from manufacturer to manufacturer. Not all manufacturers specified the class of fit in their response. Variations in thread class of fit may potentially cause installation problems if a sensor with a different fit class is substituted for an OEM sensor. Some zirconia sensors are not threaded and are fastened with a flange and gasket instead.

Oxygen sensor thread length varies from 6 to 9 mm. Thread length alone does not appear to be a critical factor. Thread length plus the length of the sensor below the threads, or total insertion depth, does appear to be a critical factor. Total insertion depth will determine the location of the sensor within the exhaust manifold or pipe. Sensors which are too long may impede exhaust flow or at worst be damaged during installation. Total insertion depths ranged from 24.5 to 38.0 mm. The length of the oxygen sensor above the threads appears to be important only in instances where there is limited engine compartment clearance. Sensor length above the threads ranged from 50 to 91 mm.

The purchased oxygen sensors allowed an excellent opportunity for side by side comparison of sensors by different manufacturers. Differences can be found in the exhaust gas venting design. The venting is used to expose the active material of the sensor to the exhaust gas. The active material is protected by a vented metal shield. Some sensors use a perforated shield while others use a slotted shield. The number of perforations or slots varies between manufacturers. Other differences in sensor construction were also noted. The metal body above the threads of some sensors is quite narrow while other sensors have a very wide body. Different materials are used to seal the

sensor to wire connection. Some sensors use a heat shielded wire. It is unknown what, if any, effect these variations would have on sensor performance or reliability.

5.2 Relationship Between Oxygen Sensor Prices and Repair Costs Limits

Many studies have identified oxygen sensors as the most frequent repair item in closed-loop vehicles failing I/M tests. Table 5-1 presents the percentage of vehicles with replacement oxygen sensor retail prices exceeding different repair cost limits in I/M programs. Obviously, the percentage decreases as the cost limit increases. A sharp drop occurs between limits of \$75 and \$100. This is shown on Figure 5-1.

It appears that low repair cost limits (\$75 and less) significantly reduce the effectiveness of I/M programs to identify and replace failed oxygen sensors.

5.3 Retail Prices of Oxygen Sensors with Similar Characteristics

Many factors affect the suggested retail price of oxygen sensors. In this analysis the impact of oxygen sensor constructional and functional characteristics on sensor price was investigated. While an attempt was made to determine the major design factors, other design factors have not been quantified. For example, the amount of noble metal to catalyze the exhaust gas may vary from sensor to sensor. Other factors, including the detailed design of the sensor connector also vary among manufacturers.

Variations in manufacturer suggested retail prices appear to be much greater than expected based on the constructional and functional characteristics studied. Variations in suggested retail price by manufacturer are shown in Table 5-2. The table shows the percentage of OEM oxygen sensors for each manufacturer that have suggested retail prices within certain price ranges. Unquantified design factors may account for some of the price variations among manufacturers. Other expenses of business such as overhead expenses, licensing costs, and other costs not included in this analysis also could affect final retail price.

TABLE 5-1. PERCENTAGE OF VEHICLES WITH REPLACEMENT OXYGEN SENSOR RETAIL PRICES EXCEEDING CERTAIN REPAIR COST LIMITS

Model Year	Total Sales ^a	\$50.00	\$75.00	\$100.00	\$150.00	\$200.00
81 - 86 ^b	42,239.3	22.9	21.1	6.8	4.1	2.1
86 ^b	7,048.6	33.6	31.7	12.6	5.0	0.5
85	9,196.5	30.0	28.3	12.2	8.6	5.4
84	9,764.9	19.1	17.7	8.0	5.9	3.6
83	5,870.2	17.0	15.6	1.8	0.1	0.0
82	4,894.3	15.5	13.2	0.0	0.0	0.0
81	5,414.9	16.4	14.4	0.0	0.0	0.0

^a Total sales, in 1000s, of oxygen sensor equipped vehicles built by the ten largest automobile manufacturers.

^b 1986 sales data were not available for Ford and Honda and, therefore, were not included.

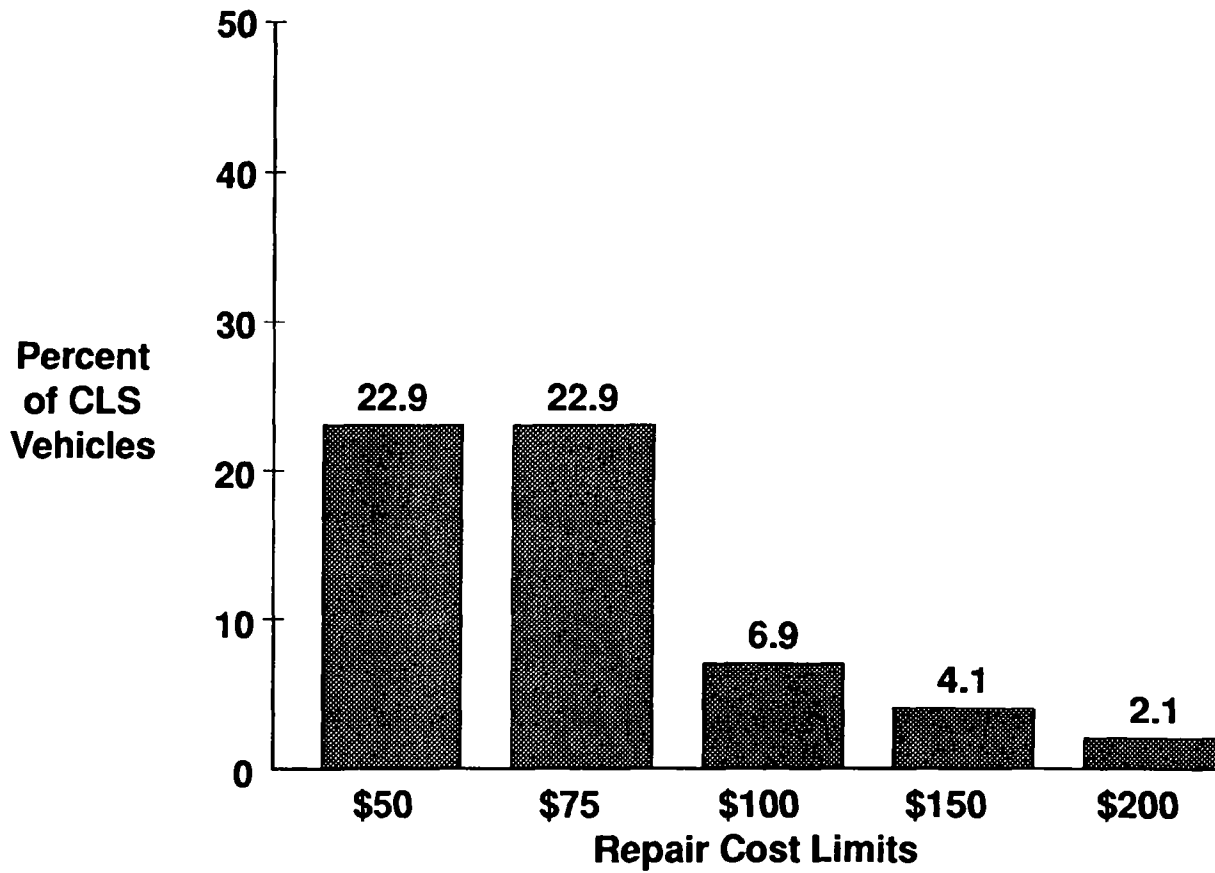


Figure 5-1. Percent of 1981-86 Vehicles with Closed Loop Systems (CLS) and with Oxygen Sensor Retail Prices That Would Exceed Certain Repair Cost Limits. (Labor Cost and '86 Ford & Honda Data Excluded.)

TABLE 5-2. PERCENTAGE OF 1981-86 OEM REPLACEMENT OXYGEN SENSORS WITH SUGGESTED RETAIL PRICES WITHIN CERTAIN PRICE RANGES

Manufacturer	Number of Sensors	\$0-50	\$50-75	\$75-100	\$100-150	\$150-200	\$Over 200
Ford Motor Co.	3	100 ^{a,b}	--	--	--	--	--
General Motors	2	100 ^a	--	--	--	--	--
AMC/Jeep	3	67 ^a	--	--	33 ^a	--	--
Chrysler Corp.	3	67 ^a	--	--	--	33 ^a	--
Volkswagen	4	--	25 ^a	25 ^a	50 ^b	--	--
Toyota	8	--	--	100 ^a	--	--	--
Nissan	15	--	--	60 ^a	40 ^{b,c}	--	--
Mazda	10	--	--	--	100 ^a	--	--
Mitsubishi	7	--	--	--	--	71 ^a	29 ^a
Honda	7	--	--	--	--	--	100 ^a

Actual price may vary from manufacturers suggested retail price.

- ^a Nonheated zirconia oxygen sensors.
- ^b Heated zirconia oxygen sensors.
- ^c Heated titania oxygen sensors.

Table 5-2 shows that most domestically produced oxygen sensors are priced under fifty dollars. However, not a single import oxygen sensor is priced below fifty dollars. In fact, over two thirds of the import sensors are priced over one hundred dollars. Aftermarket oxygen sensor prices are not shown in Table 5-2. The suggested retail prices for aftermarket sensors tend to be lower than OEM prices for import applications and slightly higher than OEM prices for domestic applications.

Table 5-3 presents the range of prices for OEM oxygen sensors with similar characteristics. The characteristics of the nine oxygen sensor groups are also listed in the table. Group numbers 2, 4, 8, and 9 contain only one sensor each. Group number 3 contains two oxygen sensors used in domestic vehicles and their price difference is minimal. The remaining four groups show a wide range between the lowest and highest priced sensors in each group.

In group number 5 the highest priced sensor is over seven times the price of the lowest priced sensor. Group number 7 has a price difference over five times the price of the lowest priced sensor. Notice also that groups 5 and 7 account for 66% of the OEM oxygen sensors and that only a 2mm difference in total insertion depth separates the groups.

In some cases the large differences in price do not seem to be justified. For instance, Robert Bosch Corporation manufactures OEM oxygen sensors for both Ford Motor Company and Volkswagen. Data for two OEM sensors manufactured by Robert Bosch are shown on Table 5-4. Both are heated zirconia sensors with identical specifications except for wire length. There is a 1 mm difference in thread length but the total insertion depth is the same. Both sensors were purchased and measured by Radian. The Ford sensor was made in West Germany while the Volkswagen sensor was made in the United States. The manufacturer suggested retail price for the Ford sensor is \$49.62 and the manufacturer suggested retail price for the Volkswagen sensor is \$108.50.

TABLE 5-3. PRICE RANGES FOR OXYGEN SENSORS WITH SIMILAR CHARACTERISTICS

Group	Number of Oxygen Sensors In Group	Sensor Material	Type	Number of Wires	Thread Size	Total Insertion Depth (TID) ¹	Minimum Retail Price ²	Maximum Retail Price ²
1	6	Zirconia	Heated	3	18mm x 1.5mm	26mm ≤ TID <28mm	\$ 49.62	\$138.33
2	1	Zirconia	Heated	3	18mm x 1.5mm	24mm ≤ TID <26mm	118.50	—
3	2	Zirconia	Nonheated	2	18mm x 1.5mm	30mm ≤ TID	36.71	37.11
4	1	Zirconia	Nonheated	1	18mm x 1.5mm	30mm ≤ TID	215.32	—
5	18	Zirconia	Nonheated	1	18mm x 1.5mm	28mm ≤ TID <30mm	37.70	272.05
6	9	Zirconia	Nonheated	1	Flange Type	28mm ≤ TID <30mm	79.85	178.28
7	23	Zirconia	Nonheated	1	18mm x 1.5mm	26mm ≤ TID <28mm	49.62	272.52
8	1	Titania	Heated	3	12mm x 1.25mm	28mm ≤ TID <30mm	138.20	—
9	1	Titania	Heated	3	12mm x 1.25mm	24mm ≤ TID <26mm	141.90	—

¹ Total Insertion Depth = Thread length + length of sensor below threads.

² Manufacturer suggested retail price, actual price may vary. Prices obtained between 3-88 and 9-89.

TABLE 5-4. OXYGEN SENSORS WITH SIMILAR CONSTRUCTIONAL AND DIMENSIONAL CHARACTERISTICS

Constructional Characteristics

Sensor Material - zirconia
 Sensor type - heated
 Switch point - 14.70
 Number of wire(s) - 3

Dimensional Characteristics

Thread size - 18 mm x 1.5 mm
 Thread length + insertion depth - 26 mm TL+ID <28 mm

OEM Sensor Part Number	Retail Price (a)	OEM Manufacturer	Recommended Change Out Interval	Length of Wire(s)	Voltage Limits	Splash Protection	Thread Length	Thred Length Plus Insertion Depth	Sensor Length Above Threads
025906265B	\$108.50	Volkswagon	NS	535.0 mm	0.0 to 1.0	NS	7.000 mm	26.000 mm	70.000 mm
E6TZ 9F472-A	\$ 49.62	Ford Motor Co.	NS	155.0 mm	NS	NS	6.000 mm	26.000 mm	70.000 mm

(a) Manufacturer suggested retail price. Actual price may vary.
 NS = Not Specified.

5.4 Aftermarket Sensor Applications

Aftermarket oxygen sensors appear to be readily available for all domestically produced vehicles. Applications for imported vehicles appear to be more limited. In many instances no aftermarket oxygen sensors were identified as valid replacements for imported vehicle OEM oxygen sensors.

Many of the data tables in Appendix C group aftermarket sensor applications by OEM oxygen sensor part number. Grouping aftermarket sensors by OEM sensor part number often results in more than one aftermarket sensor by the same manufacturer listed as a valid replacement for a single OEM sensor part number. This anomaly indicates that aftermarket sensor manufacturers apparently do not use OEM part numbers to determine applications. Applications for aftermarket sensors appear to be determined by engine size, model year, and sometimes model.

6.0 CONCLUSIONS

The oxygen sensor is a critical component of modern vehicle emission control systems. Oxygen sensor failure can result in high vehicle emissions. Many states have inspection and maintenance (I/M) programs to detect and correct high emitting vehicles, but most programs have a repair cost limit. The high retail price of some oxygen sensors often exceeds the I/M repair cost limit, therefore, high emitting vehicles with failed oxygen sensors are not always repaired.

This study focused solely on constructional and functional oxygen sensor parameters. Many of the higher priced OEM oxygen sensors appear to be similar in construction and function to lower priced oxygen sensors. However, no attempt has been made to determine why such a broad price range exists for OEM oxygen sensors. Other factors that might possibly affect operation, reliability, or retail price of oxygen sensors include the quantity of noble metals used during the manufacture of the sensor, the electrical connector design, the number of oxygen sensors produced in a given production run, and overhead costs. EPA needs information on these and possibly other factors to understand why such a broad price range for OEM oxygen sensors was exhibited in this study.

This study identified the following specific conclusions:

- Many of the higher priced OEM oxygen sensors appear constructionally and functionally similar to lower priced sensors used by other OEMs;
- At a repair cost limit of \$75, approximately 23 percent of the closed-loop vehicles built between 1981 and 1986 might not have failed oxygen sensors replaced since the OEM replacement price, without installation labor, exceeds \$75;

- The percentage of closed-loop vehicles for which the OEM retail oxygen sensor price exceeds the cost limit decreases dramatically at the higher cost limits. At an I/M cost limit of \$200, slightly over 2 percent of the closed-loop vehicles sold between 1981 and 1986 could not have failed oxygen sensors replaced at the OEM retail price; and
- Aftermarket oxygen sensor prices tend to be lower than OEM sensor prices for import vehicles and slightly higher than OEM sensor prices for domestic vehicles.

One method to reduce the number of vehicles with failed oxygen sensors that exceed repair cost limits would be to increase the cost limits. The replacement cost for OEM oxygen sensors, not including installation, exceeds the \$75 cost limit for approximately 23 percent of the closed-loop vehicles manufactured between 1981 and 1986. This percentage drops to slightly over 2 percent with a repair cost limit of \$200. Increasing the cost limit would increase the number of vehicles with failed oxygen sensors that could be repaired. However, any cost limit increases would also have to consider installation labor costs as well.

Reducing the cost of replacement oxygen sensors could also reduce the number of vehicles with failed oxygen sensors that exceed the repair cost limit. It might also increase the amount of repair work performed on vehicles requiring additional emission system repairs. This could result in additional vehicle repairs associated with I/M programs.

One possible method for reducing the replacement costs for oxygen sensors would be to substitute similar lower priced OEM or aftermarket sensors for the higher priced OEM oxygen sensors. This option has its own set of issues which must be explored in detail before widespread substitution could be recommended. However, EPA is interested in this option and may conduct some limited testing to evaluate the potential for emission reduction on vehicles with failed oxygen sensors.

APPENDIX A

Manufacturer Survey Responses

American Motors
Chrysler
General Motors
Mazda
Mitsubishi
Nissan
Toyota
Volkswagen

Engine family sales data are confidential and have been deleted from the manufacturer replies.

RADIA
CORPORATION

AMERICAN MOTORS

American Motors

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
81	BAM258V2HP7	258.0 / 4.2	<u>2V</u>		3238765 3238766 8933002455	CONCORD CONCORD WAGON SPIRIT	_____ _____ _____
82	CAM258T2HE84	258.0 / 4.2	<u>2V</u>		3238765 3238766 3241176 8933002455	CHEROKEE/WAGNER CJ-5/CJ-7 4WD EAGLE 4WD EAGLE:KMBK: SX/4 J10 P/U 4WD SCRAMBLER PICKU	_____ _____ _____ _____ _____ _____
82	CAM258V2HE50	258.0 / 4.2	<u>2V</u>		8933002455 3238765 3238766 3241176	CONCORD CONCORD WAGON SPIRIT	_____ _____ _____
83	DAM1.4V5FGD5	85.0 / 1.4	<u>EFI</u>		<u>7700708955</u>	ALLIANCE	_____
83	DAM1.4V5FKD8	85.0 / 1.4	<u>EFI</u>		8933000598 8933002455	ALLIANCE	_____
83	DAM1.4V5FLD8	85.0 / 1.4	<u>EFI</u>		8933000598 8933002455	ALLIANCE	_____
83	DAM258T2HEBX	258.0 / 4.2	<u>2V</u>		8933000598 8933002455	CHEROKEE/WAGNER CJ-5/7 4WD EAGLE 4WD EAGLE SX/4 4WD J-10 PICKUP 4WD	_____ _____ _____ _____ _____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

American Motors

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
DAM258T2HEBX (cont.)						SCRAMBLER PICKU	_____
83	DAM258V2HDA8	258.0 / 4.2	<u>2V</u>		8 8933000598 8933002455	CONCORD CONCORD WAGON SPIRIT	_____ _____ _____
84	EAM1.4V5FFA1	85.0 / 1.4	<u>EFI</u>		8933000598 8933002455	ALLIANCE/ENCORE	_____
85	EAM1.4V5FFA1	85.0 / 1.4	<u>EFI</u>		8933002452 8933000598	ALLIANCE/ENCORE	_____
84	EAM1.4V5FJD5	85.0 / 1.4	<u>EFI</u>		7700708955	ALLIANCE/ENCORE	_____
84	EAM150T1HEA5	150.0 / 2.5	<u>IV</u>		8933000598 8933002455	CHEROKEE/WAGONE CJ-7 4WD DJ PO VEHICLE 2 EAGLE 4WD SCRAMBLER PICKU	_____ _____ _____ _____ _____
84	EAM258T2HEAX	258.0 / 4.2	<u>2V</u>		8933000598 8933002455	CJ-7 4WD EAGLE 4WD FJ-8C P.O.VEHIC GRAND WAGONEER J-10 PICKUP 4WD SCRAMBLER PICKU	_____ _____ _____ _____ _____ _____
85	FAM1.7V5F8A0	105.0 / 1.7	<u>EFI</u>		8933002455	ALLIANCE/ENCORE	_____
85	FAM173T2F4C3	173.0 / 2.8	<u>2V</u>		8953000886	XJ	_____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

American Motors

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
	FAM173T2F4C3 (cont.)					XJ-2WD	_____
85	FAM2.5T1HEA5	150.0 / 2.5	<u>IV</u>		<u>8933002455</u>	CJ-7 SCRAMBLER XJ XJ-2WD	_____ _____ _____ _____

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

American Motors

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'80	_____	258 / _____		_____	_____	AMX Concord Spirit	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
'80	_____	151 / _____		_____	_____	AMX Concord Spirit	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____	_____	____ / _____		_____	_____		_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

American Motors

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'86	GAM1.4VSFFA3	85 / 1.4	TBI		8933002455	Unknown Alliance/Encore	
'86	GAM1.7VSFGA1	105 / 1.7	TBI		8933002455	Unknown Alliance Sedan Alliance Convertible Encore Sedan	
'86	GAM2.5TIHEA6	150 / 2.5	1 BBL		8933002455	Unknown CJ7	

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

American Motors

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'86	GAM4.2T2HEAD	258 / 4.2	2 BBL		8933002455	Unknown CJ7 Grand Wagoneer J-10 P/u Eagle	
_____	_____	____ / ____	_____		_____		
_____	_____	____ / ____	_____		_____		

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

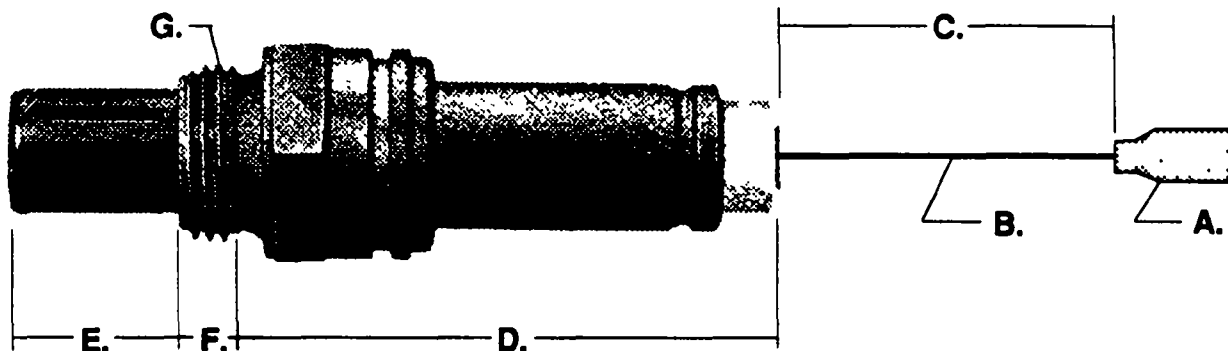
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 8933002455
 Suggested Retail Cost: \$ 37.70
 Recommended Change Interval: Miles 50,000 or Years —
 Oxygen Sensor Type (check one): Heated Non - heated
 Splash Protection (check one): Low Moderate
Severe Not - specified
 Sensor Material (check one): Zirconia Titania, or
Other (specify material) _____
 Voltage Output Range: 0-.2 Vmin to .6-.95 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: BLADE (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 100 millimeters
 D. Length of Sensor above the Threads: 68 millimeters
 E. Length of Sensor below the Threads: 20 millimeters
 F. Thread Length: 9 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5 x 6E (eg. 18 mm x 1-1/2, Class A)

RADIAN
CORPORATION

CHRYSLER

Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
81	BCR1.7V2HJ1	105.0 / 1.7	<u>2V</u>		4004675 4301375	024/DE TOMASO HORIZON OMNI TCS/TURISMO	_____ _____ _____ _____
81	BCR2.2V2HA5	135.0 / 2.2	<u>2V</u>		4004675 4301375	024/DE TOMASO ARIES ARIES WAGON HORIZON OMNI RELIANT RELIANT WAGON TCS/TURISMO	_____ _____ _____ _____ _____ _____ _____ _____
81	BCR2.2V2HU8	135.0 / 2.2	<u>2V</u>		4004675 4301375	024/DE TOMASO ARIES ARIES WAGON HORIZON OMNI RELIANT RELIANT WAGON TCS/TURISMO	_____ _____ _____ _____ _____ _____ _____ _____
81	BCR5.2V2HJ4	318.0 / 5.2	<u>2V</u>		4004675 4301375	CORDOBA DIPLOMAT DIPLOMAT WAGON	_____ _____ _____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
BCR5.2V2HJ4 (cont.)						GRAN FURY	_____
						LEBARON	_____
						LEBARON WAGON	_____
						MIRADA	_____
						ST. REGIS	_____
81	BCR5.2V4HC1	318.0 / 5.2	<u>4V</u>		4004675 4301375	CORDOBA	_____
						DIPLOMAT	_____
						DIPLOMAT WAGON	_____
						GRAN FURY	_____
						LEBARON	_____
						LEBARON WAGON	_____
						MIRADA	_____
						ST. REGIS	_____
81	BCR5.2V8FAX	318.0 / 5.2	<u>EPM</u>		4301375 4004675	IMPERIAL	_____
82	CCR1.7V2HBF7	105.0 / 1.7	<u>2V</u>		4004675 4301375	024	_____
						HORIZON	_____
						OMNI	_____
						TCS/TURISMO	_____
82	CCR2.2V2HFL1	135.0 / 2.2	<u>2V</u>		4004675 4301175 4301275 4301375	024	_____
						400	_____
						ARIES	_____
						ARIES WAGON	_____
						HORIZON	_____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DDMC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
CCR2.2V2HFL1 (cont.)						LEBARON	_____
						OMNI	_____
						RELIANT	_____
						RELIANT WAGON	_____
						TC3/TURISMO	_____
						TOWN & COUNTRY	_____
82	CCR5.2V2HAL4	319.0 / 5.2	<u>2V</u>		4004675 4301375	CORDOBA	_____
						DIPLOMAT	_____
						GRAN FURY	_____
						MIRADA	_____
						SPECIAL	_____
83	DCR1.6V2HC80	99.0 / 1.6	<u>2V</u>		4004675 4301375	CHARGER	_____
						HORIZON	_____
						OMNI	_____
						TURISMO	_____
83	DCR2.2V2HAC3	135.0 / 2.2	<u>2V</u>		4004675 4301175 4301275 4301375	400	_____
						400 CONVERTIBLE	_____
						800	_____
						ARIES	_____
						ARIES WAGON	_____
						CHARGER	_____
						E CLASS/NEW YOR	_____
						HORIZON	_____
						LEBARON	_____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
DCR2.2V2HAC3 (cont.)						LEBARON CONVERT	_____
						OMNI	_____
						RELIANT	_____
						RELIANT WAGON	_____
						TOWN & COUNTRY	_____
						TURISMO	_____
83	DCR2.2V2HCL7	135.0 / 2.2	<u>2V</u>		4004675 4301175 4301275 4301375	400	_____
						400 CONVERTIBLE	_____
						800	_____
						ARIES	_____
						ARIES WAGON	_____
						CHARGER	_____
						E CLASS/NEW YOR	_____
						HORIZON	_____
						LEBARON	_____
						LEBARON CONVERT	_____
						OMNI	_____
						RELIANT	_____
						RELIANT WAGON	_____
						TOWN & COUNTRY	_____
						TURISMO	_____
83	DCR3.7V1HA83	225.0 / 3.7	<u>IV</u>		4004675 4301175 4301275 4301375	CORDOBA	_____
						DIPLOMAT	_____
						FIFTH AVENUE ED	_____
						GRAN FURY	_____

[continued]

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Chrysler

Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
DCR3.7V1H83 (cont.)						MIRADA	
83	DCR5.2T2H8K	318.0 / 5.2	<u>2V</u>		4004675 4081175 4031275 4301375	AM150 RANCHRGR B150/250 WAGON B150/B250 VAN 2 B350 VAN 2ND B350 WAGON 2ND D150 P/U 2ND D250 P/U 2ND PB150/250 VYGR PB350 VYGR 2ND W150 P/U 4ND W250 P/U 4ND	
83	DCR5.2V2HAP8	318.0 / 5.2	<u>2V</u>		4004675 4301175 4301275 4301375	CORDOBA DIPLOMAT FIFTH AVENUE ED GRAN FURY MIRADA	
83	DCR5.2V2HCK8	318.0 / 5.2	<u>2V</u>		4004675 4301175 4301275	CORDOBA DIPLOMAT FIFTH AVENUE ED GRAN FURY MIRADA	
84	ECR1.8V2HDF7	97.0 / 1.8	<u>2V</u>		4301175	CHARGER	
					4301375		

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)	
ECR1.6V2HDF7 (cont.)						HORIZON	_____	
						OMNI	_____	
						TURISMO	_____	
84	ECR2.2V2HAC4	135.0 / 2.2	<u>2V</u>		4301175	800	_____	
						4301275	800 CONVERTIBLE	_____
						4301375	ARIES	_____
						4301346	ARIES WAGON	_____
							CHARGER	_____
							HORIZON	_____
							LEBARON	_____
							LEBARON CONVERT	_____
							OMNI	_____
							RELIANT	_____
							RELIANT WAGON	_____
							TOWN & COUNTRY	_____
							TURISMO	_____
84	ECR2.2V2HCLB	135.0 / 2.2	<u>2V</u>		4301175	800	_____	
						4301275	800 CONVERTIBLE	_____
						4301375	ARIES	_____
							ARIES WAGON	_____
							CHARGER	_____
							HORIZON	_____
							LEBARON	_____
							LEBARON CONVERT	_____
							OMNI	_____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

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Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
ECR2.2V2HCL8 (cont.)						RELIANT	_____
						RELIANT WAGON	_____
						TOWN & COUNTRY	_____
						TURISMO	_____
84	ECR2.2V5FAA8	135.0 / 2.2	TURBO		4301175 4301375 4301246 4301346	800	_____
						800 CONVERTIBLE	_____
						DAYTONA	_____
						E CLASS/NEW YOR	_____
						LASER/DAYTONA	_____
						LEBARON	_____
						LEBARON CONVERT	_____
84	ECR2.2V5HCF1	135.0 / 2.2	<u>EFI</u>		4301175 4301375 4301346	800	_____
						800 CONVERTIBLE	_____
						DAYTONA	_____
						E CLASS/NEW YOR	_____
						LASER/DAYTONA	_____
						LEBARON	_____
						LEBARON CONVERT	_____
84	ECR2.2V5HDLD	135.0 / 2.2	<u>EFI</u>		4301175 4301375	800	_____
						800 CONVERTIBLE	_____
						DAYTONA	_____
						E CLASS/NEW YOR	_____
						LASER/DAYTONA	_____
						LEBARON	_____

(continued)

(a) EXAMPLES - TURBO, 18 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
	ECR2.2V5HDLD (cont.)						LEBARON CONVERT
84	ECR2.8V2FAJ8	158.0 / 2.8	<u>2V</u>		<u>MDO73036</u>	600 600 CONVERTIBLE ARIES ARIES WAGON E CLASS/NEW YOR EXEC SEDAN/LINO LEBARON LEBARON CONVERT RELIANT RELIANT WAGON TOWN & COUNTRY	
84	ECR5.2T2H8ND	318.0 / 5.2	<u>2V</u>		4301175 4301375 4301346	AD150 RANCHRGR AM150 RANCHRGR B150/250 WAGON B150/B250 VAN 2 B350 VAN 2ND B350 WAGON 2ND D100/D150 P/U 2ND D250 P/U 2ND W100/W150 P/U 4RD	
84	ECR5.2V2HAPX	318.0 / 5.2	<u>2V</u>		4301175 4301375 4301346	DIPLOMAT GRAN FURY NEWPORT/FIFTH A	
84	ECR5.2V2HCK8	318.0 / 5.2	<u>2V</u>		4301175	DIPLOMAT	

4301375
4301346

(continued)

(a) EXAMPLES - TURBO, 18 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Chrysler

Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
ECR6.2V2HCK8 (cont.)						GRAN FURY NEWPORT/FIFTH A	_____ _____
85	FCR1.6V2HDF8	97.0 / 1.8	<u>2V</u>		4301175 4301375 4301346	CHARGER HORIZON OMNI TURISMO	_____ _____ _____ _____
85	FCR2.2V2HDH5	135.0 / 2.2	<u>2V</u>		<u>4301375</u>	ARIES ARIES WAGON CHARGER HORIZON OMNI RELIANT RELIANT WAGON TURISMO	_____ _____ _____ _____ _____ _____ _____ _____
85	FCR2.2V2HDJ8	135.0 / 2.2	<u>2V</u>		<u>4301375</u>	ARIES ARIES WAGON CHARGER HORIZON OMNI RELIANT RELIANT WAGON TURISMO	_____ _____ _____ _____ _____ _____ _____ _____
85	FCR2.2V5FAA8	135.0 / 2.2	TURBO		4301246 <u>4301346</u>	800	_____ _____

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(continued)

Chrysler

Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
FCR2.2V5FAA9 (cont.)						800 CONVERTIBLE	_____
						CARAVELLE	_____
						CHARGER	_____
						DAYTONA	_____
						LANCER	_____
						LASER	_____
						LEBARON	_____
						LEBARON CONVERT	_____
						LEBARON GT8	_____
						NEW YORKER	_____
						OMNI	_____
						TOWN & COUNTRY	_____
85	FCR2.2V5HCF2	135.0 / 2.2	<u>EFI</u>		<u>4301375</u>	800	_____
						800 CONVERTIBLE	_____
						ARIES	_____
						ARIES WAGON	_____
						CARAVELLE	_____
						DAYTONA	_____
						LANCER	_____
						LASER	_____
						LEBARON	_____
						LEBARON CONVERT	_____
						LEBARON GT8	_____
						RELIANT	_____
						RELIANT WAGON	_____
85	FCR2.2V5HDL1	135.0 / 2.2	<u>EFI</u>		<u>4301375</u>	800	_____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Chrysler

Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
FCR2.2V5HDL1 (cont.)						800 CONVERTIBLE	_____
						ARIES	_____
						ARIES WAGON	_____
						CARAVELLE	_____
						DAYTONA	_____
						LANCER	_____
						LASER	_____
						LEBARON	_____
						LEBARON CONVERT	_____
						LEBARON GT8	_____
						RELIANT	_____
						RELIANT WAGON	_____
85	FCR2.6V2FAX	158.0 / 2.8	<u>2V</u>		<u>MD073036</u> 4243036	800	_____
						800 CONVERTIBLE	_____
						ARIES	_____
						ARIES WAGON	_____
						CARAVELLE	_____
						EXEC SEDAN/LIND	_____
						LEBARON	_____
						LEBARON CONVERT	_____
						NEW YORKER	_____
						RELIANT	_____
						RELIANT WAGON	_____
						TOWN & COUNTRY	_____
85	FCR2.6V2FAP5	158.0 / 2.8	<u>2V</u>		<u>MD073036</u> 4243036	800	_____

(continued)

(a) EXAMPLES - TURBO, 18 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Chrysler

Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
FCR2.8V2FAP5 (cont.)						800 CONVERTIBLE	_____
						ARIES	_____
						ARIES WAGON	_____
						CARAVELLE	_____
						EXEC SEDAN/LIMO	_____
						LEBARON	_____
						LEBARON CONVERT	_____
						NEW YORKER	_____
						RELIANT	_____
						RELIANT WAGON	_____
						TOWN & COUNTRY	_____
85	FCR5.2T2HBM1	318.0 / 5.2	<u>2v</u>		<u>4301375</u>	AD150 RANCRGR	_____
						AW150 RANCRGR	_____
						B150/B250 WAGON	_____
						B150/B250 VAN 2	_____
						B350 VAN 2ND	_____
						B350 WAGON 2ND	_____
						D100/D150 P/U 2	_____
						D250 P/U 2ND	_____
						W100/W150 P/U 4	_____
85	FCR5.2T2HEM6	318.0 / 5.2	<u>2v</u>		<u>4301375</u>	AD150 RANCRGR	_____
						AW150 RANCRGR	_____
						B150/B250 WAGON	_____
						B150/B250 VAN 2	_____
						B350 VAN 2ND	_____

(continued)

(a) EXAMPLES - TURBO, 18 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

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Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
FCR5.2T2HEM8 (cont.)						B350 WAGON 2WD D100/D150 P/U 2 D250 P/U 2WD W100/W150 P/U 4 W250 P/U 4WD	_____
85	FCR5.2V2HAPD	318.0 / 5.2	<u>2V</u>		<u>4301375</u>	DIPLOMAT GRAN FURY NEWPORT/FIFTH A	_____ _____ _____
85	FCR5.2V2HCXK	318.0 / 5.2	<u>2V</u>		<u>4301375</u>	DIPLOMAT GRAN FURY NEWPORT/FIFTH A	_____ _____ _____
88	GCR1.8V2HDHD	87.1 / 1.8	<u>2V</u>		<u>4301375</u>	CHARGER HORIZON OMNI TURISMO	_____ _____ _____ _____
88	GCR2.2V2HDH8	135.0 / 2.2	<u>2V</u>		<u>4301375</u>	CHARGER HORIZON OMNI TURISMO	_____ _____ _____ _____
88	GCR2.2V2HDJX	135.0 / 2.2	<u>2V</u>		<u>4301375</u>	CHARGER HORIZON OMNI	_____ _____ _____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.
 (b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

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MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
	GCR2.2V2HDJX (cont.)					TURISMO	_____
86	GCR2.2V5FAAX	135.0 / 2.2	<u>Turbo</u>		<u>4301346</u>	800 800 CONVERTIBLE CARAVELLE CHARGER DAYTONA LANCER LASER/DAYTONA LEBARON LEBARON CONVERT LEBARON GT8 LIMOUSINE NEW YORKER OMNI TOWN & COUNTRY	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
86	GCR2.2V5FAB0	135.0 / 2.2	<u>Turbo</u>		<u>4301346</u>	800 800 CONVERTIBLE CARAVELLE CHARGER DAYTONA LANCER LASER/DAYTONA LEBARON LEBARON CONVERT LEBARON GT8	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

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MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
8CR2.2V5FAB0 (cont.)						LIMOUSINE	_____
						NEW YORKER	_____
						OMNI	_____
						TOWN & COUNTRY	_____
88	8CR2.5V5FAM9	152.0 / 2.5	<u>EFI</u>		<u>4301375</u>	800	_____
						800 CONVERTIBLE	_____
						ARIES	_____
						ARIES WAGON	_____
						CARAVELLE	_____
						DAYTONA	_____
						LANCER	_____
						LASER/DAYTONA	_____
						LEBARON	_____
						LEBARON CONVERT	_____
						LEBARON GTS	_____
						NEW YORKER	_____
						RELIANT	_____
						RELIANT WAGON	_____
						TOWN & COUNTRY	_____
88	8CR2.5V5HCFX	135.0 / 2.2	<u>EFI</u>		<u>4301375</u>	800	_____
						800 CONVERTIBLE	_____
						ARIES	_____
						ARIES WAGON	_____
						CARAVELLE	_____
						DAYTONA	_____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

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Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
GCR2.5V5HCFX (cont.)						LANCER	_____
						LASER/DAYTONA	_____
						LEBARON	_____
						LEBARON CONVERT	_____
						LEBARON GTS	_____
						NEW YORKER	_____
						RELIANT	_____
						RELIANT WAGON	_____
						TOWN & COUNTRY	_____
88	GCR6.2T2HBN2	318.0 / 5.2	<u>2V</u>		<u>4301375</u>	AD150 RANCHARGE	_____
						AW150 RANCHARGE	_____
						B150/B250 VAN 2	_____
						B150/B250 WAGON	_____
						B350 VAN 2ND	_____
						B350 WAGON 2ND	_____
						D100/D150 PICKU	_____
						D250 PICKUP 2ND	_____
						W100/W150 PICKU	_____
88	GCR6.2V2HAP1	318.0 / 5.2	<u>2V</u>		<u>4301375</u>	DIPLMAT	_____
						GRAN FURY	_____
						NEWPORT/FIFTH A	_____
88	GCR6.2V2HCK0	318.0 / 5.2	<u>2V</u>		<u>4301375</u>	DIPLMAT	_____
						GRAN FURY	_____
						NEWPORT/FIFTH A	_____

(a) EXAMPLES - TURBO, 18 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

Chrysler

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MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'80		104 /				Unknown	
			Note: California engines only				
		/					
		/					

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(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'80	OCB-105-2-CLP	105 / 1.7	2V		4004675 4301375	Turismo Horizon TC3 Horizon De Tomaso Omni 924 Omni	
_____	_____	____ / ____	_____		_____	_____	_____
_____	_____	____ / ____	_____		_____	_____	_____

(a) EXAMPLES - TURBO, 16 VALVE, DMC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

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MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'80		360/				Unknown	
'80	OCB-318-4-AUP	318/ 5.2	4V		4004675 4301375	Unknown Volare Aspen LeBaron Cordoba Chrysler 300 Town & Country Diplomat Mirada Newport New Yorker	
'80	OCB-225-1-ARB	225/ 3.7	IV		4004675 4301375	Unknown Volare Aspen LeBaron Diplomat	

(a) EXAMPLES - TURBO, 18 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'82	CCR2.2V2HNLX	135 / 2.8	2V		4004675 4301175 4301275 4301375	Tc3/Turismo Horizon 024 Omni	
'82	CCR3.7VIHAE3	225 / 3.7	1V		4004675 4301375	Special New Yorker Cordoba Diplomat Mirada Fury	
'82	CCR5.2V4HALI	318 / 5.2	4V		4004675 4301375	New Yorker Mirada Cordoba Special Diplomat Fury	

Chrysler

(a) EXAMPLES - TURBO, 18 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPT(.. (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'83	<u>DcR1.6V2HCT1</u>	<u>98 / 1.6</u>	<u>2V</u>		<u>4004675</u> 4301175 4301275 4301375	<u>Turismo</u> <u>Horizon</u> <u>Charger</u> <u>Omni</u>	
'89	<u>DcR1.7V2HCN9</u>	<u>105 / 1.7</u>	<u>2V</u>		<u>4004675</u> 4301175 4301275 4301375	<u>Turismo</u> <u>Horizon</u> <u>Charger</u> <u>Omni</u>	
'83	<u>DcR1.7V2HCPO</u>	<u>105 / 1.7</u>	<u>2V</u>		<u>4004675</u> 4301175 4301275 4301375	<u>Turismo</u> <u>Horizon</u> <u>Charger</u> <u>Omni</u>	

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
<u>'83</u>	<u>DcR2.2V5HcFo</u>	<u>135 / 2.2</u>	<u>EFI</u>		4004675 4301175 4301275 4301375	<u>E Class/New Yorker</u> <u>600</u>	
<u>'83</u>	<u>DcR3.7VIHcJ6</u>	<u>225 / 3.7</u>	<u>IV</u>		4004675 4301175 4301275 4301375	<u>New Yorker/5th Ave</u> <u>Cordoba</u> <u>Diplomat</u> <u>Mirada</u> <u>Gran Fury</u>	
<u>'83</u>	<u>DcR5.2V4HATa</u>	<u>318 / 5.2</u>	<u>4V</u>		4004675 4301175 4301275 4301375	<u>Gran Fury</u> <u>Diplomat Salon</u>	

(a) EXAMPLES - TURBO, 16 VALVE, DDMC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'83	<u>DCR5.2V5HAR1</u>	<u>318 / 5.2</u>	<u>EFC</u>		<u>4004675</u> <u>4301175</u> <u>4301275</u> <u>4301375</u>	<u>Imperial</u>	
'83	<u>DCR2.2T2HBA4</u>	<u>135 / 2.2</u>	<u>2V</u>		<u>4004675</u> <u>4031175</u> <u>4031275</u> <u>4301375</u>	<u>Rampage P/U 2WD</u>	
'83	<u>DCR3.7TIHAS4</u>	<u>225 / 3.7</u>	<u>1V</u>		<u>4004675</u> <u>4301175</u> <u>4301275</u> <u>4301375</u>	<u>B150/B250 Van 2WD</u> <u>B150/B250 Wagon 2WD</u> <u>D150 P/U 2WD</u>	

Chrysler

(a) EXAMPLES - TURBO, 18 VALVE, DOHC, HD, etc.
(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'84	<u>ECR1.6V2HDJ2</u>	<u>97 / 1.6</u>	<u>2V</u>		<u>4301175</u> <u>4301375</u>	<u>Omni</u> <u>Charger</u> <u>Horizon</u> <u>Turismo</u>	
1	<u>ECR5.2V4HAT3</u>	<u>318 / 5.2</u>	<u>4V</u>		<u>4301175</u> <u>4301346</u> <u>4301875</u>	<u>Diplomat</u> <u>Gran Fury</u>	
'4	<u>ECR3.2T2HBMB</u>	<u>135 / 2.2</u>	<u>2V</u>		<u>4301175</u> <u>4301275</u> <u>4301375</u> <u>4301346</u>	<u>Caravan/Ram Van 2WD</u> <u>Voyager 2WD</u> <u>Rampage P/U 2WD</u>	

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, NO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'84	ECR2.2T3HCL9	135 / 2.0	2V		4301175 4301275 4301375	Caravan/Ram Van 2WD Younger 2WD Rampage P/U 2WD	
'84	ECR3.7T1HDSO	225 / 3.7	1V		4301175 4301346 4301375	B150/B250 Van 2WD B150/B250 Wagon 2WD D100/D150 P/U 2WD	
'84	ECR3.7T1HEJ1	225 / 3.7			4301375 4301346 4301175	D100/D150 P/U 2WD	

Chrysler

(a) EXAMPLES - TURBO, 18 VALVE, DDMC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'84	ECR&2T&HEMS	318 / 5.2	2V		4301175 4301375 4301346	B150/B250 Van 2WD B150/B250 Wagon 2WD B350 Van 2WD B350 Wagon 2WD D100/D150 PU 2WD D250 P/U 2WD W100/150 PU 4WD W250 P/U 4WD AD150 Ramcharger 2WD AW150 Ramcharger 4WD	
_____	_____	____/____	_____	_____	_____	_____	_____
_____	_____	____/____	_____	_____	_____	_____	_____

Chrysler

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.
(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'85	<u>FCR1.6V2HDJ3</u>	<u>97 / 1.6</u>	<u>2V</u>		4301175 4301375 4301346	<u>Omni</u> <u>Horizon</u> <u>Charger</u> <u>Turismo</u>	
'85	<u>FCR2.2V5FABx</u>	<u>135 / 2.2</u>	<u>Turbo</u>		4301246 4301346	<u>New Yorker</u> <u>LeBaron</u> <u>Town & Country</u> <u>LeBaron Convertible</u> <u>Laser</u> <u>LeBaron GTS</u> <u>Omni</u> <u>Charger</u> <u>600</u> <u>600 Convertible</u> <u>Daytona</u> <u>Lancer</u> <u>Carnale</u>	
'85	<u>FCR5.2V4HAT4</u>	<u>310 / 5.2</u>	<u>4V</u>		<u>4301375</u>	<u>Diplomat</u> <u>Gran Fury</u>	

Chrysler

(a) EXAMPLES - TURBO, 18 VALVE, DOHC, HO, etc.
(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'85	ECR2.2T2HBM9	135 / 2.2	2V		4301375	Caravan/Ram Van 2WD Voyager 2WD Rampage P/U 2WD	
'85	FCR2.2T2HETS	135 / 2.2	2V		4301375	Caravan/Ram Van 2WD Voyager 2WD Rampage P/U 2WD	
'85	FCR3.7T1HDS1	225 / 3.7	IV		4301375	B150/B250 Van 2WD B150/B250 Wagon 2WD D100/D150 P/U 2WD	

Chrysler

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.
(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'86	GCR2.2T2HDJ0	135 2.2 98 / 1.6	2V Carb	} 2717 DELETE	4301375	Unknown Caravan/Ram Van 2WD Voyager 2WD	
'86	GCR2.2T2HDH7	135 / 2.2	2V Carb & EPT		4301375	Unknown Caravan/Ram Van 2WD Voyager 2WD	
'86	GCR3.7T1HDS2	225 3.7 153 / 2.5	1V EPT		4301375	Unknown B150/B250 Van 2WD B150/B250 2WD D100/D150 P/u 2WD	

Chrysler

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

Chrysler

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'86	<u>GCR5.2V4HATS</u>	<u>318/ 5.2</u>	<u>4V</u> 214 DDL CARB	} $7190 \div 2 = 3595$ DELETE 130TH	<u>4301375</u>	Unknown Diplomat Gran Fury	
'86	<u>GCR5.2V4HGA4</u>	<u>318 / 5.2</u>	<u>4V</u>		<u>4301375</u>	Diplomat Gran Fury	
'86	<u>GCR5.2T2HEM7</u>	<u>318 / 5.2</u>			<u>4301375</u>	B150/B250 Van 2WD B150/B250 Wagon 2WD B350 Van 2WD B350 Wagon 2WD D100/D150 P/U 2WD D250 P/U 2WD W100/W150 P/U 4WD AD150 Ramcharger 2WD AW150 Ramcharger 4WD	

Chrysler

(a) EXAMPLES - TURBO, 16 VALVE, DDMC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 4301346

Suggested Retail Cost: \$ 37.98

Recommended Change Interval: Miles 50,000 or Years _____

Oxygen Sensor Type (check one): _____ Heated Non - heated

Splash Protection (check one): _____ Low Moderate

_____ Severe _____ Not - specified

Sensor Material (check one): Zirconia _____ Titania, or

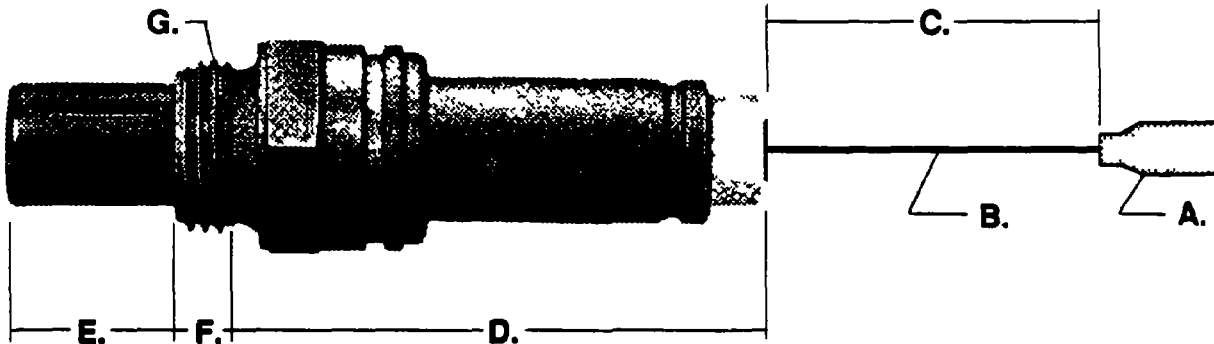
_____ Other (specify material) _____

Voltage Output Range: 0-.2 Vmin to .6-.95 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: BULLET (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 100 millimeters

D. Length of Sensor above the Threads: 65 millimeters

E. Length of Sensor below the Threads: 20 millimeters

F. Thread Length: 9 millimeters

G. Thread Size and Class of Fit: 18mm x 1.5 x 6E (eg. 18 mm x 1-1/2, Class A)

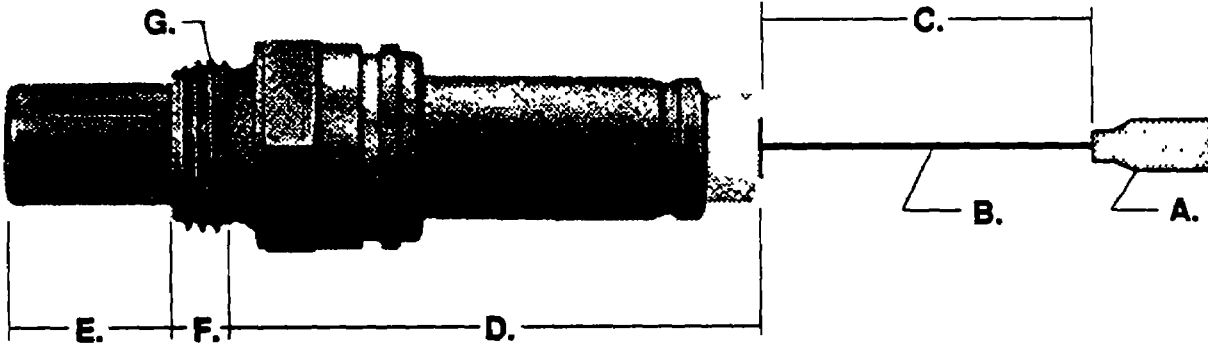
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 4301375
 Suggested Retail Cost: \$ 41.50
 Recommended Change Interval: Miles 50,000 or Years _____
 Oxygen Sensor Type (check one): _____ Heated Non - heated
 Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe Not - specified
 Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____
 Voltage Output Range: 0-.2 Vmin to .6-.95 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: BULLET (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 100 millimeters
 D. Length of Sensor above the Threads: 65 millimeters
 E. Length of Sensor below the Threads: 20 millimeters
 F. Thread Length: 9 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5 x 6H (eg. 18 mm x 1-1/2, Class A)

RADIAN
CORPORATION

GENERAL MOTORS



General Motors
 Environmental Activities Staff
 General Motors Corporation
 General Motors Technical Center
 30400 Mound Road
 Warren, Michigan 48090-9015

SM-1703
 May 4, 1988

Mr. David A. Wright
 Radian Corporation
 10395 Old Placerville Rd.
 Sacramento, California 95827

Dear Mr. Wright:

This letter is in response to your recent request to Mr. Everett for information on General Motors (GM) replacement oxygen sensors. Please find enclosed five (5) completed oxygen sensor data sheets for the exhaust oxygen sensors currently being used by General Motors. These sensors are also used as service replacements for original equipment. They are externally the same and meet the same performance specifications. In addition, the newer sensors have internal changes to improve overall performance (e.g. longevity and poison resistance). Listed below are the old part numbers and the new replacement part numbers.

<u>OLD PART NUMBER</u>	<u>NEW PART NUMBER</u>
8990346* \	25106169
8991739 /	
8990351 \	25105107
8990741 /	
8990625	25105901
8880789	25106073
8990469	25107378

* Two wire sensor with rubber boot. Replaced by two wire sensor with metal construction.

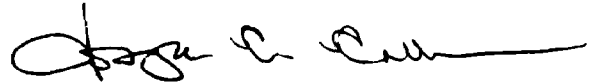
The retail cost of current replacement oxygen sensors is not included. However, this information can be readily obtained by contacting General Motors dealerships. The engine applications of sensors is provided in the attached table. General Motors voluntarily submits this information to Radian to aid you in your contractual obligations to the Environmental Protection Agency. Please keep in mind that GM is continually implementing changes to improve our products; therefore, this information is subject to change.



Let's Get It Together
 SAFETY BELTS SAVE LIVES

I hope the information being furnished will aid Radian in completing its EPA contract requirements. If you have any questions regarding the attached data sheets or would like to further discuss this information, please contact Robert VanCura or Jon Pavlinac of my staff at (313) 947-1806 and -1800, respectively.

Sincerely,



Joseph C. Calhoun
Assistant Director
Automotive Emission Control

attachments

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 25106169

Suggested Retail Cost: \$ _____

Recommended Change Interval: Certified to EPA Vehicle Requirements
Miles _____ or Years _____

Oxygen Sensor Type (check one): _____ Heated _____ Non - heated

Splash Protection (check one): _____ Low _____ Moderate
_____ Severe _____ Not - specified

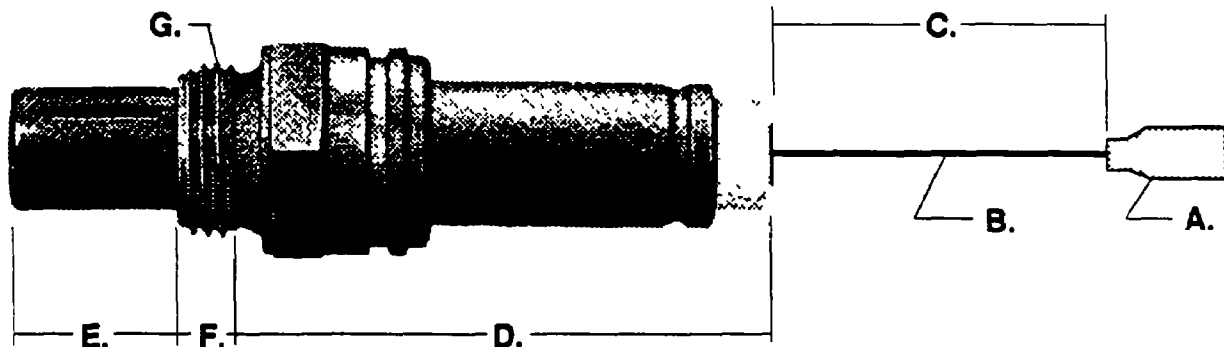
Sensor Material (check one): _____ Zirconia _____ Titania, or
_____ Other (specify material) _____

Voltage Output Range: 0.2 (max.) _____ Vmin to 0.8 (min.) _____ Vmax (volts) @371 deg

Does the Sensor Switch around 14.7:1? Yes _____ No ($\lambda=1$)

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Pin, Male (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 2

C. Wire Length: 220 millimeters

D. Length of Sensor above the Threads: 55 millimeters

E. Length of Sensor below the Threads: 30 millimeters

F. Thread Length: 8 millimeters

G. Thread Size and Class of Fit: 18x1.5 6e (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 25105107

Suggested Retail Cost: \$ _____

Recommended Change Interval: Miles _____ or Years _____
Certified to EPA Vehicle Req.

Oxygen Sensor Type (check one): _____ Heated _____ Non - heated

Splash Protection (check one): _____ Low _____ Moderate

_____ Severe _____ Not - specified

Sensor Material (check one): Zirconia _____ Titania, or

_____ Other (specify material) _____

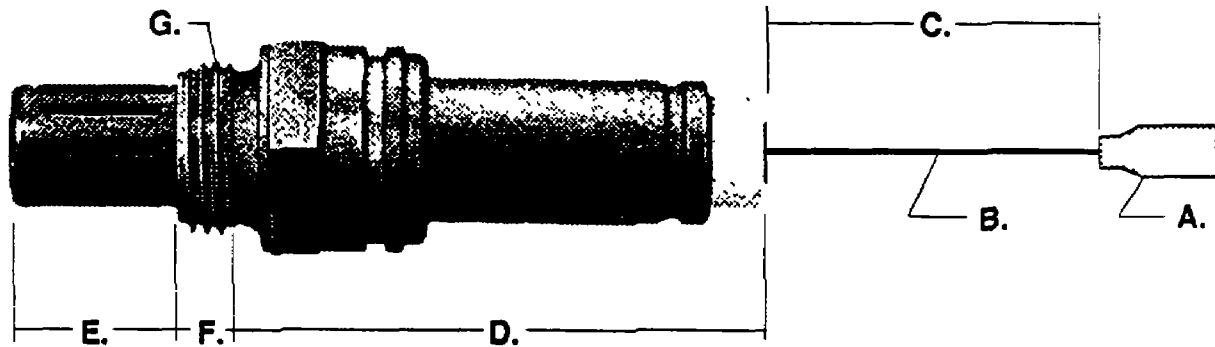
Voltage Output Range: 0.2 (max) Vmin to 0.8 (min) Vmax (volts) @ 371°C

Does the Sensor Switch around 14.7:1?

Yes _____ No ($\lambda=1$)

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Pin, male (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 230 millimeters

D. Length of Sensor above the Threads: 50 millimeters

E. Length of Sensor below the Threads: 30 millimeters

F. Thread Length: 8 millimeters

G. Thread Size and Class of Fit: 18 x 1.5 6e (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 25106073

Suggested Retail Cost: \$ _____

Recommended Change Interval: Miles Certified to EPA Vehicle Requirement or Years

Oxygen Sensor Type (check one): Heated X Non - heated

Splash Protection (check one): Low Moderate Severe X Not - specified

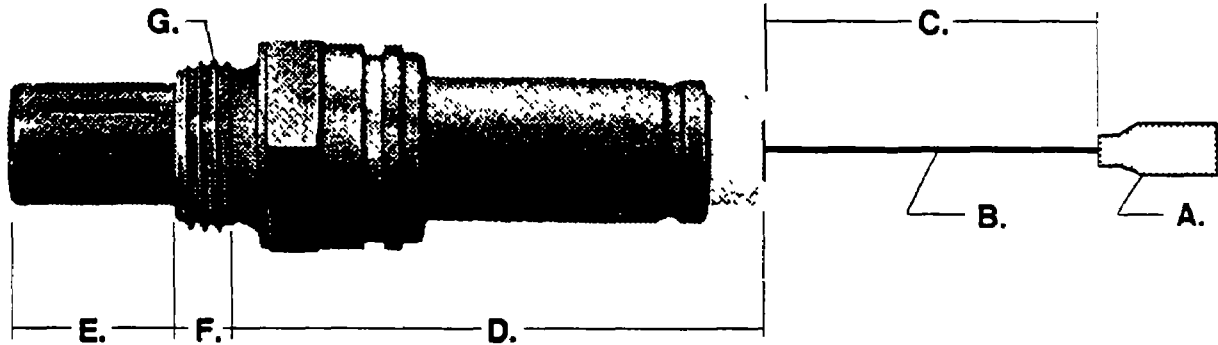
Sensor Material (check one): X Zirconia Titania, or Other (specify material) _____

Voltage Output Range: 0.2 (max) V_{min} to 0.8 (min) V_{max} (volts) @ 371°

Does the Sensor Switch around 14.7:1? X Yes No ($\lambda=1$)

If no, what Air / Fuel ratio does it Switch at?

 A / F Ratio



A. Type of Electrical Connector: Pin, Male (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 230 millimeters

D. Length of Sensor above the Threads: 50 millimeters

E. Length of Sensor below the Threads: 30 millimeters

F. Thread Length: 8 millimeters

G. Thread Size and Class of Fit: 18 x 1.5 6e (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 25107378

Suggested Retail Cost: \$ _____

Recommended Change Interval: Certified to EPA Vehicle Requirement
Miles _____ or Years _____

Oxygen Sensor Type (check one): _____ Heated _____ Non - heated

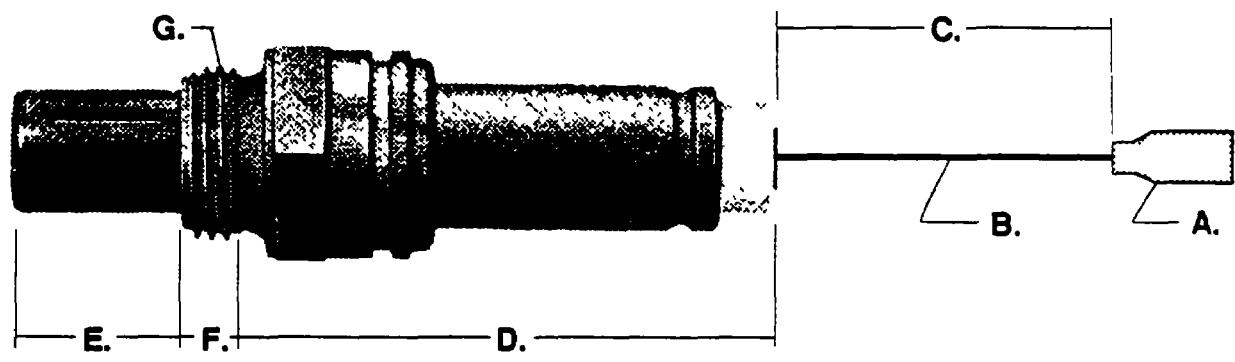
Splash Protection (check one): _____ Low _____ Moderate
_____ Severe _____ Not - specified

Sensor Material (check one): Zirconia _____ Titania, or
_____ Other (specify material) _____

Voltage Output Range: 0.2 (max) Vmin to 0.8 (min) Vmax (volts) @ 371°C

Does the Sensor Switch around 14.7:1? Yes _____ No ($\lambda=1$)

If no, what Air / Fuel ratio does it Switch at? _____ A / F Ratio



A. Type of Electrical Connector: Pin, Male (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 180 millimeters

D. Length of Sensor above the Threads: 50 millimeters

E. Length of Sensor below the Threads: 30 millimeters

F. Thread Length: 8 millimeters

G. Thread Size and Class of Fit: 18 x 1.5 6e (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Usage

Oxygen Sensor Part Number **8990346**
 Service Part Number **25106169**

1980 Model Year Engine Option Codes

A11

1981 Model Year Engine Option Codes

A11

Oxygen Sensor Part Number **8990741**
 Service Part Number **25105107**

1982 Model Year Engine Option Codes

L17	LC3	LG4	LR8
L39	LC4	LH7	LU5
L46	LC8	LH8	LV2
L83	LD5	LK9	LV8
LC1	LE2	LQ9	

1983 Model Year Engine Option Codes

L17	LC8	LE9	LK9	LR1	LV2
L69	LC8	LF3	LL1	LR2	
LC1	LD5	LG4	LM1	LR8	
LC3	LE2	LH7	LQ5	LS9	
LC4	LE3	LH8	LQ9	LU5	

1984 Model Year Engine Option Codes

L17	LC3	LE3	LH7	LM9	LR8
L69	LC4	LE9	LH8	LN3	LS9
L83	LD5	LF3	LK9	LQ5	LV2
LA5	LE2	LG4	LL1	LR1	
LC1	LE2	LH7	LM1	LR2	

1985 Model Year Engine Option Codes

L17	LA5	LE9	LH8	LN8	LT8
L44	LB6	LF3	LK9	LQ5	LV2
L68	LB9	LG2	LM9	LQ9	
L69	LD5	LG4	LN3	LR8	
L98	LE2	LG8	LN7	LS9	

Oxygen Sensor Usage (cont.)

Oxygen Sensor Part Number **8990741** (cont.)
 Service Part Number **25105107**

1986 Model Year Engine Option Codes

L17	LA5	LD5	LG3	LN7	LT8
L44	LB4	LE2	LG4	LN8	LV2
L68	LB6	LE9	LG8	LQ5	
L69	LB9	LF3	LH8	LR8	
L98	LC2	LG2	LL2	LS9	

1987 Model Year Engine Option Codes

L17	L98	LD2	LL2	LT2
L44	LB4	LD5	LL8	LT3
L68	LB6	LG3	LL8	LT8
L69	LB9	LG4	LN7	LV2
L98	LC2	LG8	LR8	

Oxygen Sensor Part Number **8990351** and **5613725**
 Service Part Number **25105107**

1983 Model Year Engine Option Codes

LG4
 LK9
 LV2

1984 Model Year Engine Option Codes

LG4
 LQ9

Oxygen Sensor Part Number **8991739** and **5613719**
 Service Part Number **25106169**

1982 Model Year Engine Option Codes

L62
 LT8

1983 Model Year Engine Option Codes

L62
 LT8

1984 Model Year Engine Option Codes

L62
 LT8

Oxygen Sensor Usage (cont.)

Oxygen Sensor Part Number **8991739** and **5613719** (cont.)
 Service Part Number **25106169**

1987 Model Year Engine Option Codes

LT8

Oxygen Sensor Part Number **25106169**

1988 Model Year Engine Option Codes

LR6

Oxygen Sensor Part Number **25105107**

1987 Model Year Engine Option Codes

LD2

1988 Model Year Engine Option Codes

L44	LB6	LH0	LR8
L68	LB9	LL8	LT2
L69	LD2	LN3	LT3
L98	LG3	LN7	LV2
LB4	LG4	LO3	

Oxygen Sensor Part Number **25105901**

1988 Model Year Engine Option Codes

L98	LN8
LB4	LO3
LB6	LO5
LB8	
LL2	

Oxygen Sensor Part Number **25106073**

1988 Model Year Engine Option Codes

L73

Key to Oxygen Sensor Usage

General Motors

Engine Option Code	Displacement/Carburetion/Cylinders
L17	1.6L 2bb1 L4
L39	4.4L 2bb1 V8
L44	2.8L PFI V6
L46	1.8L 2bb1 L4
L62	6.0L TBI V8
L68	2.5L TBI L4
L69	5.0L 4bb1 V8
L73	1.6L 2bb1 L4
L83	5.7L TBI V8
L98	5.7L PFI V8
LA5	1.8L PFI Turbo L4
LB4	4.3L TBI V6
LB6	2.8L PFI V6
LB8	2.8L PFI V6
LB9	5.0L PFI V8
LC1	2.8L 2bb1 V6
LC2	3.8L PFI Turbo V6
LC3	3.8L 2bb1 V6
LC4	4.1L 4bb1 V6
LC7	4.1L TBI V8
LC8	3.8L 4bb1 V6
LD2	2.0L PFI Turbo L4
LD5	3.8L 2bb1 V6
LE2	2.8L 2bb1 V6
LE3	4.1L 2bb1 L6
LE9	5.0L 4bb1 V8
LF3	5.0L 4bb1 V8
LG2	3.8L PFI V6
LG3	3.8L PFI V6
LG4	5.0L 4bb1 V8
LG8	5.0L 4bb1 V8
LHO	3.1L PFI V6
LH7	2.8L 2bb1 V6
LH8	1.8L TBI L4
LK9	3.0L 2bb1 V6
LL1	2.8L 2bb1 V6
LL2	2.8L TBI V6
LL8	2.0L TBI L4
LM1	Special Equipment Option - Chevrolet "B" Car
LM9	3.8L PFI Turbo V6
LN3	3.8L PFI V6
LN7	3.0L PFI V6
LO3	5.0L TBI V8
LO5	5.7L TBI V8
LQ5	2.0L TBI L4

Key to Oxygen Sensor Usage (cont.)

<u>Engine Option Codes</u>	<u>Displacement/Carburetion/Cylinders</u>
LQ9	2.5L TBI L4
LR1	1.9L 2bb1 L4
LR2	2.8L 2bb1 V6
LR6	4.5L TBI V8
LR8	2.5L TBI L4
LS9	5.7L 4bb1 V8
LT2	2.0L TBI L4
LT3	2.0L PFI Turbo L4
LT8	4.1L TBI V8
LU5	5.0L TBI V8
LV2	5.0L 4bb1 V8
LV8	4.3L 2bb1 V6

MAZDA

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(313) 747-8881

mazda

March 30, 1988

Mr. David A. Wright
Project Director
Radian Corporation
10395 Old Placerville Rd.
Sacramento, CA 95827

Dear Mr. Wright:

In response to the Environmental Protection Agency project on replacement oxygen sensors which was dated February 10, 1988, we are submitting the attached information.

We are sorry for any inconvenience which may have been caused by our delay in submitting this data to you. If you have any questions concerning the attached, please contact me at (313) 747-8881.

Sincerely,



Tsuyoshi Mitsunaga
Project Manager
Certification & Testing

ATTACHMENT A

M A Z D A

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID/LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
FE 83	DTK1.5V2HCC9	91.0/1.5	4 cyl, OHC		E56318861, FE0518861	GLC LASER	2, 4, 5 door
CA 83	DTK1.5V2HDD1	91.0/1.5	"		"	GLC	"
FE 83	DTK2.0V2HFF7	122/2.0	"		"	626	"
FE 84	EIK2.0V2HFF7	122/2.0	"		"	626	"
FE 85	FIK2.0V2HFF7	122/2.0	"		"	626	"
CA 83	DTK2.0V2HGGX	122/2.0	"		"	626	"
CA 84	EIK2.0V2HGGX	122/2.0	"		"	626	"
CA 85	FIK2.0V2HGGX	122/2.0	"		"	626	"
ALL 84	EIK1.3V5HFD6	80.0/1.3	Rotary		N30418861	RX-7	2 door
CA 84	EIK1.5V2HCG3	91.0/1.5	4 cyl, OHC		E56418861, E56518861	GLC	2, 4, 5 door
CA 85	FIK1.5V2HCG3	91.0/1.5	"		"	GLC	"
FE 84	EIK1.5V2HFF8	91.0/1.5	"		"	GLC LASER	"
FE 85	FIK1.5V2HFF8	91.0/1.5	"		"	GLC LASER	"
ALL 85	FIK1.3V5HFD7	80.0/1.3	Rotary		N30418861	RX-7	2 door
ALL 86	GIK1.3V5HFD8	80.0/1.3	"		N32618861	RX-7	"
ALL 86	GIK1.6V5FAF1	/1.6	4 cyl, OHC		B60118861	323	2, 4, 5 door
ALL 86	GIK2.0V5FAJ1	122/2.0	4 cyl, OHC, T/C		FEH118861, FEH218861	626	"
ALL 86	GIK2.0V5FFJO	122/2.0	4 cyl, OHC		"	626	"
CA 86	GIK2.0T2HCM3	122/2.0	"		FE8618861	B2000	Pick up 2 door
FE 86	GIK2.0T2HFL8	122/2.0	"		"	B2000	"

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: E563-18-861

Suggested Retail Cost: \$ 119.00

Recommended Change Interval: Miles _____ or Years _____
INSPECTION ONLY

Oxygen Sensor Type (check one): _____ Heated Non - heated

Splash Protection (check one): _____ Low Moderate
 _____ Severe _____ Not - specified

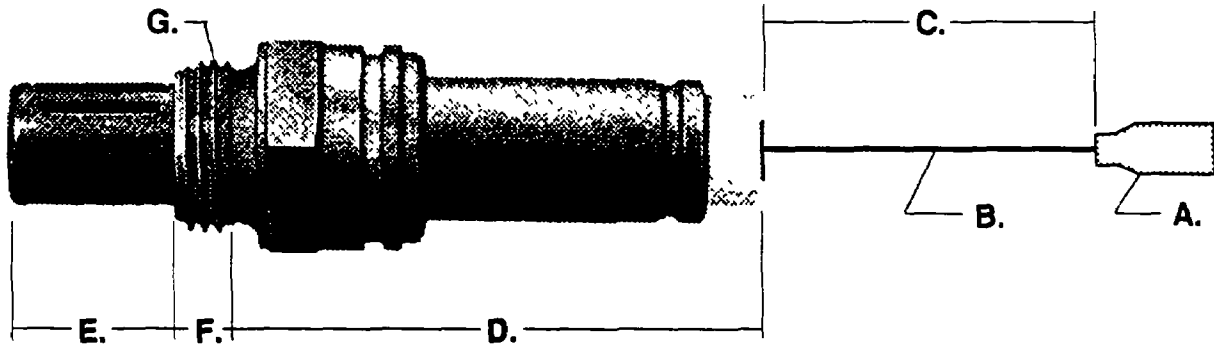
Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____

Voltage Output Range: 0.2 Vmin to 0.7 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male blade (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 438.5 millimeters

D. Length of Sensor above the Threads: 71 millimeters

E. Length of Sensor below the Threads: 19 millimeters

F. Thread Length: 7.5 millimeters

G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: E564-18-861

Suggested Retail Cost: \$ 119.00

Recommended Change Interval: Miles _____ or Years _____
INSPECTION ONLY

Oxygen Sensor Type (check one): _____ Heated Non - heated

Splash Protection (check one): _____ Low Moderate

_____ Severe _____ Not - specified

Sensor Material (check one): Zirconia _____ Titania, or

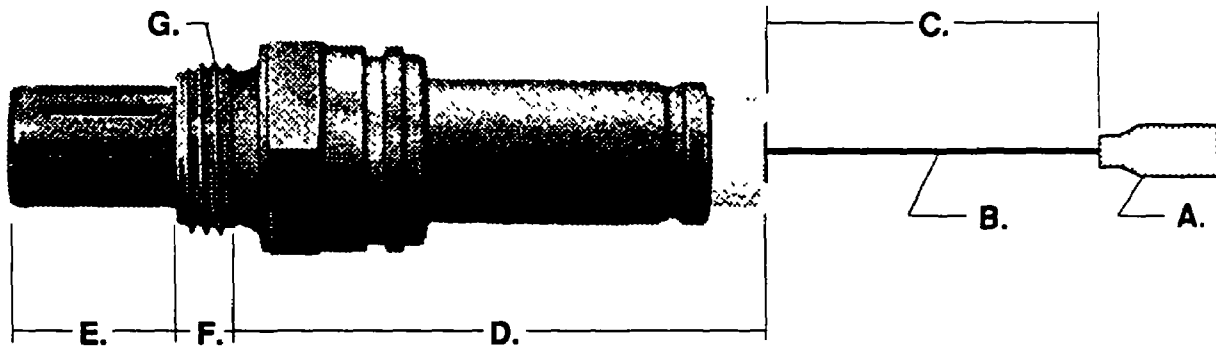
_____ Other (specify material) _____

Voltage Output Range: 0.2 Vmin to 0.7 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male blade (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 238.5 millimeters

D. Length of Sensor above the Threads: 71 millimeters

E. Length of Sensor below the Threads: 19 millimeters

F. Thread Length: 7.5 millimeters

G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: E565-18-861

Suggested Retail Cost: \$ 119.00

Recommended Change Interval: Miles _____ or Years _____ INSPECTION ONLY

Oxygen Sensor Type (check one): _____ Heated Non - heated

Splash Protection (check one): _____ Low Moderate

_____ Severe _____ Not - specified

Sensor Material (check one): Zirconia _____ Titania, or

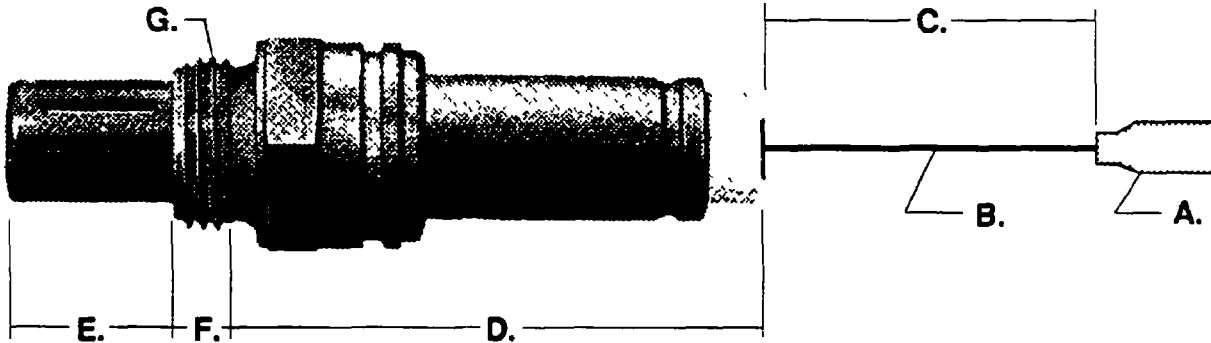
_____ Other (specify material) _____

Voltage Output Range: 0.2 Vmin to 0.7 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male blade (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 237 millimeters

D. Length of Sensor above the Threads: 62 millimeters

E. Length of Sensor below the Threads: 20 millimeters

F. Thread Length: 7 millimeters

G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: FE05-18-861

Suggested Retail Cost: \$ 119.00

Recommended Change Interval: INSPECTION ONLY
Miles _____ or Years _____

Oxygen Sensor Type (check one): _____ Heated _____ Non - heated

Splash Protection (check one): _____ Low _____ Moderate
_____ Severe _____ Not - specified

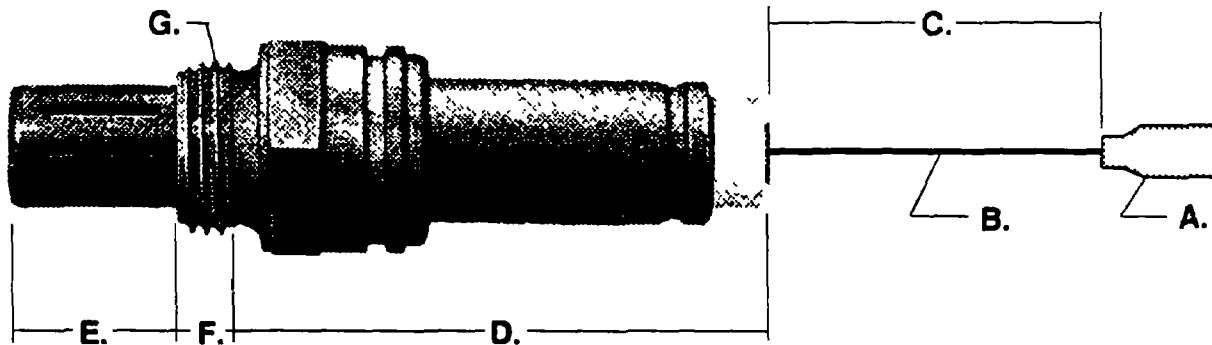
Sensor Material (check one): Zirconia _____ Titania, or
_____ Other (specify material) _____

Voltage Output Range: _____ 0.2 Vmin to _____ 0.7 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male blade (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 447 millimeters

D. Length of Sensor above the Threads: 62 millimeters

E. Length of Sensor below the Threads: 20 millimeters

F. Thread Length: 7 millimeters

G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: N304-18-861

Suggested Retail Cost: \$ 119.00

Recommended Change Interval: Miles _____ or Years _____
INSPECTION ONLY

Oxygen Sensor Type (check one): _____ Heated Non - heated

Splash Protection (check one): _____ Low Moderate
 _____ Severe _____ Not - specified

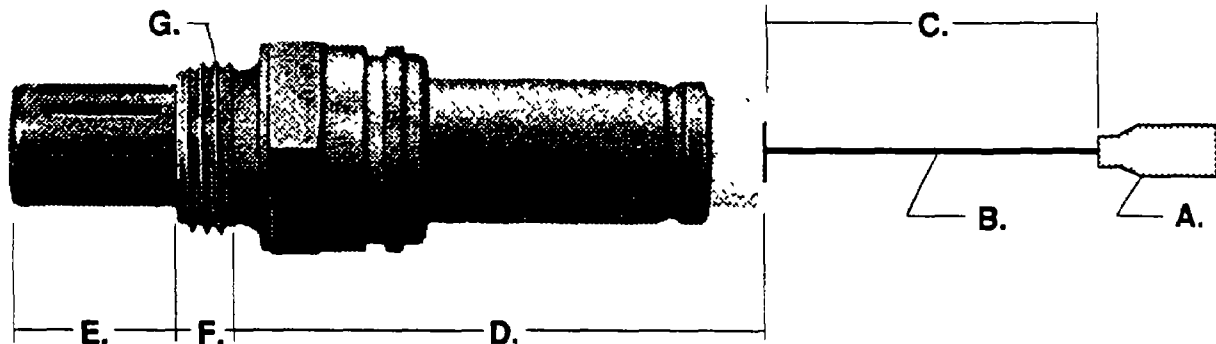
Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____

Voltage Output Range: 0.2 Vmin to 0.7 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male blade (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 238 millimeters

D. Length of Sensor above the Threads: 71 millimeters

E. Length of Sensor below the Threads: 19 millimeters

F. Thread Length: 7.5 millimeters

G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: N326-18-861

Suggested Retail Cost: \$ 119.00 INSPECTION ONLY

Recommended Change Interval: Miles _____ or Years _____

Oxygen Sensor Type (check one): _____ Heated Non - heated

Splash Protection (check one): _____ Low Moderate
 _____ Severe _____ Not - specified

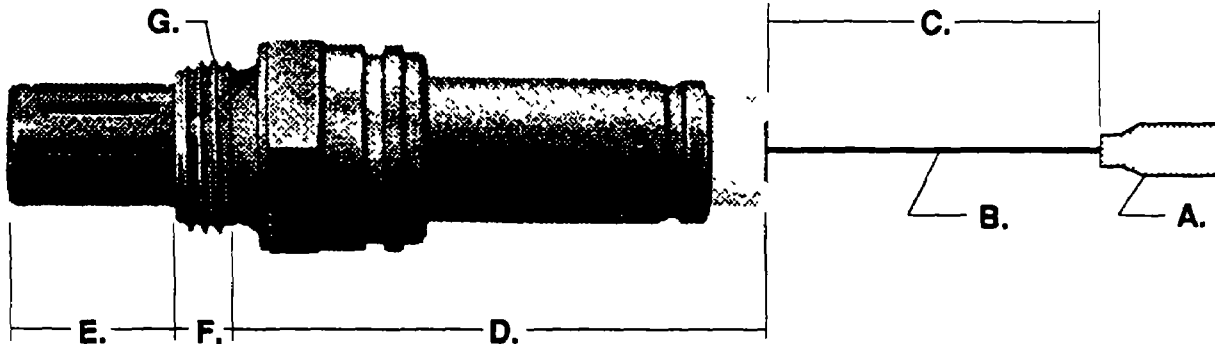
Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____

Voltage Output Range: 0.2 Vmin to 0.7 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male Blade (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 242 millimeters

D. Length of Sensor above the Threads: 57 millimeters

E. Length of Sensor below the Threads: 19 millimeters

F. Thread Length: 7.5 millimeters

G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: B601-18-861

Suggested Retail Cost: \$ 119.00 INSPECTION ONLY

Recommended Change Interval: Miles _____ or Years _____

Oxygen Sensor Type (check one): _____ Heated _____ Non - heated

Splash Protection (check one): _____ Low _____ Moderate

_____ Severe _____ Not - specified

Sensor Material (check one): _____ Zirconia _____ Titania, or

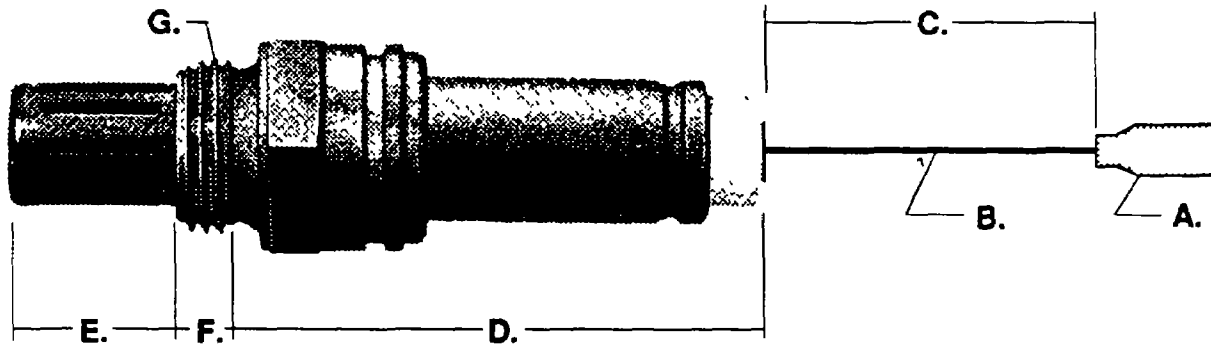
_____ Other (specify material) _____

Voltage Output Range: 0.2 Vmin to 0.7 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male blade (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 440 millimeters

D. Length of Sensor above the Threads: 69 millimeters

E. Length of Sensor below the Threads: 19.5 millimeters

F. Thread Length: 8 millimeters

G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: FEH1-18-861

Suggested Retail Cost: \$ 119.00

Recommended Change Interval: Miles _____ or Years _____ INSPECTION ONLY

Oxygen Sensor Type (check one): _____ Heated _____ Non - heated

Splash Protection (check one): _____ Low _____ Moderate

_____ Severe _____ Not - specified

Sensor Material (check one): _____ Zirconia _____ Titania, or

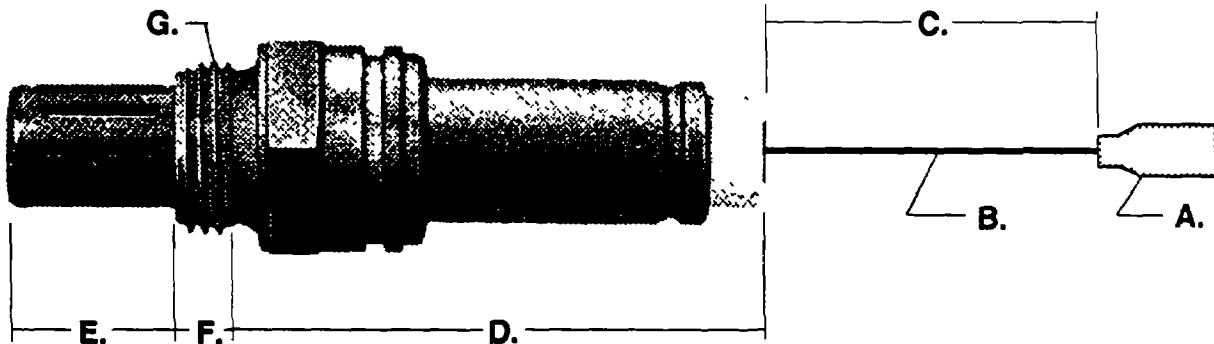
_____ Other (specify material) _____

Voltage Output Range: _____ 0.2 Vmin to _____ 0.7 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male blade (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 457 millimeters

D. Length of Sensor above the Threads: 52 millimeters

E. Length of Sensor below the Threads: 20 millimeters

F. Thread Length: 7 millimeters

G. Thread Size and Class of Fit: 18 mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: FEH2-18-861

Suggested Retail Cost: \$ 119.00

Recommended Change Interval: Miles _____ or Years _____ INSPECTION ONLY

Oxygen Sensor Type (check one): _____ Heated _____ Non - heated

Splash Protection (check one): _____ Low _____ Moderate

_____ Severe _____ Not - specified

Sensor Material (check one): Zirconia _____ Titania, or

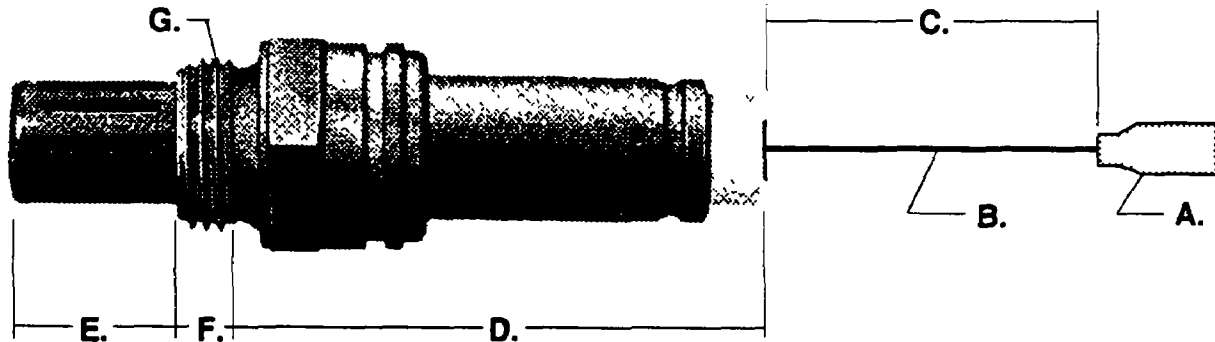
_____ Other (specify material) _____

Voltage Output Range: 0.2 Vmin to 0.7 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male blade (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 452 millimeters

D. Length of Sensor above the Threads: 57 millimeters

E. Length of Sensor below the Threads: 19 millimeters

F. Thread Length: 7.5 millimeters

G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

RADIAN
CORPORATION

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ATTACHMENT A

Mitsubishi

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
83	DMT2.6V5FFD0	158.0 / 2.6	TURBO		<u>MD073546</u>	STARION	_____
84	EMT1.4V2FCA4	85.0 / 1.4	_____		<u>MD117240</u>	COLT	_____
84	EMT1.4V2FFD2	88.0 / 1.4	_____		<u>MD117240</u>	COLT PRECIS	_____
84	EMT1.6V2FFD3	98.0 / 1.6	_____		<u>MD117240</u>	COLT PRECIS	_____
84	EMT1.6V5FFD4	98.0 / 1.6	TURBO		<u>MD117240</u>	COLT PRECIS	_____
84	EMT1.8V5FFD5	110.0 / 1.8	TURBO		<u>MD076706</u>	CORDIA TREDIA	_____
84	EMT2.0V2FCAX	122.0 / 2.0	_____		<u>MD117240</u>	COLT VISTA CORDIA TREDIA	_____
84	EMT2.0V2FFD8	122.0 / 2.0	_____		<u>MD117240</u>	COLT VISTA CORDIA SPACE WAGON TREDIA	_____
84	EMT2.6V5FFD1	156.0 / 2.6	TURBO		<u>MD073546</u>	CONQUEST	_____

[continued]

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Mitsubishi

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
	EMT2.8V5FFD1 (cont.)					STARION	
85	FMT1.5V2FCA0	90.0 / 1.5			<u>MD089922</u>	COLT MIRAGE	
85	FMT1.5V2FFD9	90.0 / 1.5			<u>MD089922</u>	COLT MIRAGE	
85	FMT1.8V5FFD5	98.0 / 1.6	TURBO		<u>MD077621</u>	COLT MIRAGE	
85	FMT2.0T2FCA1	122.0 / 2.0			<u>MD117240</u>	COLT VISTA 4WD RAM50 PICKUP 2W TRUCK 2WD	
85	FMT2.0T2FFDX	122.0 / 2.0			<u>MD117240</u>	COLT VISTA 4WD RAM50 PICKUP 2W TRUCK 2WD	
85	FMT2.0V2FCA0	122.0 / 2.0			<u>MD117240</u>	COLT VISTA CORDIA TREDIA	
85	FMT2.0V2FFD9	122.0 / 2.0			<u>MD117240</u>	COLT VISTA CORDIA SPACE WAGON TREDIA	
85	FMT2.4V5FFD1	143.0 / 2.3			<u>MD078791</u>	GALANT	

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Mitsubishi

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
85	FMT2.6T2FFD2	156.0 / 2.6	_____		<u>MD117240</u>	MONTERO 4WD POWER RAM50 P/U RAM50 PICKUP 2W TRUCK 2WD TRUCK 4WD	_____ _____ _____ _____ _____
88	GMT1.5V2FCA1	89.8 / 1.5	_____		<u>MD089922</u>	COLT	_____
86	GMT1.5V2HFD5	89.8 / 1.5	_____		<u>MD089922</u>	COLT	_____
86	GMT2.0T2F8T2	121.9 / 2.0	_____		<u>MD117240</u>	COLT VISTA 4WD RAM50 2WD TRUCK 2WD	_____ _____ _____
86	GMT2.0T2FFD0	121.9 / 2.0	_____		<u>MD117240</u>	COLT VISTA 4WD RAM50 2WD TRUCK 2WD	_____ _____ _____
86	GMT2.0V2HFD5	121.9 / 2.0	_____		<u>MD117240</u>	COLT VISTA	_____
86	GMT2.6T2FFD3	155.9 / 2.6	_____		<u>MD073461</u>	MONTERO POWER RAM50 4WD RAM50 2WD TRUCK 2WD	_____ _____ _____ _____

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

Mitsubishi

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'86		___ / 1.5				Colt Colt Vista Mirage Conquest Starion Cordia Tredia Galant	
'86	<u>GMT1.6EF</u>	<u>98 / 1.6</u>	<u>Turbo</u>		<u>MD077621</u>	<u>Colt</u> Colt Vista <u>Mirage</u> Conquest Starion Cordia Tredia Galant	
'86	<u>GMT1.8EF</u>	<u>110 / 1.8</u>	<u>Turbo</u>		<u>MD076706</u>	Colt Colt Vista Mirage Conquest Starion <u>Cordia</u> <u>Tredia</u> Galant	

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

Mitsubishi

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'86	<u>2.0F</u>	<u>122 / 2.0</u>	_____	_____	<u>MD117240</u>	Colt <u>Colt Vista</u> Mirage Conquest Starion <u>Cordia</u> <u>Tredia</u> Galant	_____ _____ _____ _____ _____ _____ _____
'86	<u>GMT2.4EF</u>	<u>143 / 2.4</u>	_____	_____	<u>MD078791</u>	Colt Colt Vista Mirage Conquest Starion Cordia Tredia <u>Galant</u>	_____ _____ _____ _____ _____ _____ _____ _____
'86	_____	____ / 2.6	_____	_____	_____	Colt Colt Vista Mirage Conquest Starion Tredia Galant	_____ _____ _____ _____ _____ _____ _____

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

Mitsubishi

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'86	GMT2.6EF	156 / 2.6	Turbo		MD073546	Colt Colt Vista Mirage Conquest Starion Cordia Tredia Galant	
_____	_____	____ / ____	_____		_____	_____	_____
_____	_____	____ / ____	_____		_____	_____	_____

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: MD073461

Suggested Retail Cost: \$ 272.⁵²

Recommended Change Interval: Miles 50,000 or Years —

Oxygen Sensor Type (check one): Heated Non - heated

Splash Protection (check one): Low Moderate
Severe Not - specified

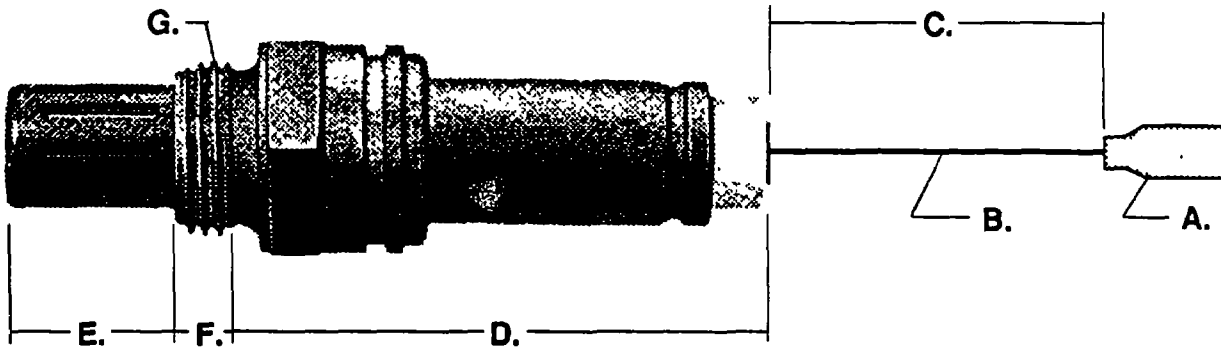
Sensor Material (check one): Zirconia Titania, or
Other (specify material) _____

Voltage Output Range: 0 Vmin to 1 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 283 millimeters

D. Length of Sensor above the Threads: 73.5 millimeters

E. Length of Sensor below the Threads: 19 millimeters

F. Thread Length: 7.5 millimeters

G. Thread Size and Class of Fit: 18mm x 1.5mm, 6e (eg. 18 mm x 1-1/2, Class A)
JIS

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: MD 073175

Suggested Retail Cost: \$ 195.33

Recommended Change Interval: Miles 50,000 or Years —

Oxygen Sensor Type (check one): Heated Non - heated

Splash Protection (check one): Low Moderate
Severe Not - specified

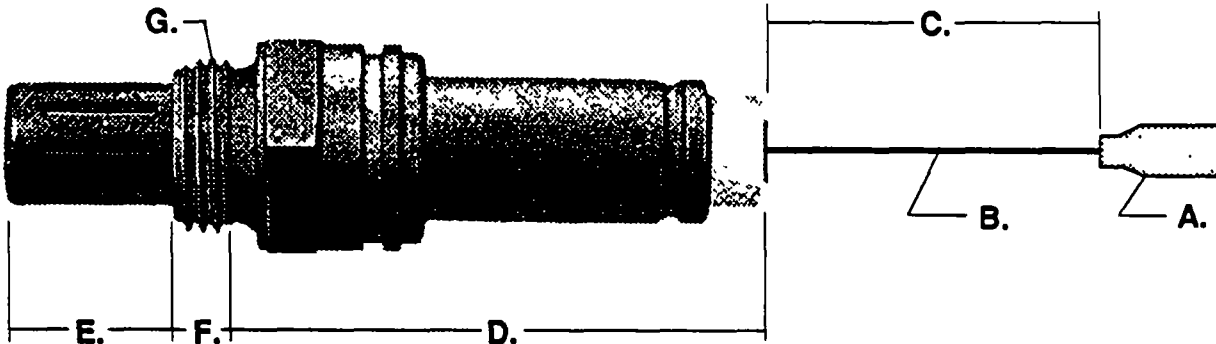
Sensor Material (check one): Zirconia Titania, or
Other (specify material) _____

Voltage Output Range: 0 Vmin to 1 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 289 millimeters

D. Length of Sensor above the Threads: 70 millimeters

E. Length of Sensor below the Threads: 20 millimeters

F. Thread Length: 8 millimeters

G. Thread Size and Class of Fit: 18mm x 1.5mm, b9 (eg. 18 mm x 1-1/2, Class A)
JIS

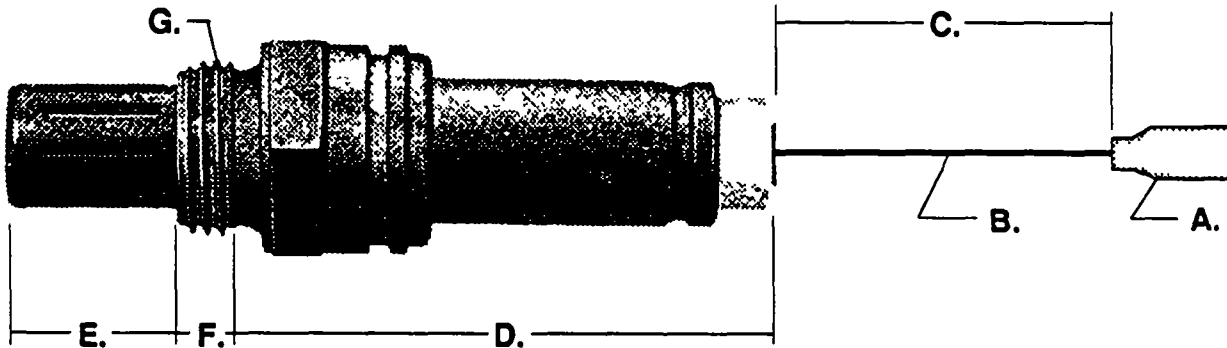
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: MD073546
 Suggested Retail Cost: \$ 178.28
 Recommended Change Interval: Miles 50,000 or Years -
 Oxygen Sensor Type (check one): Heated Non - heated
 Splash Protection (check one): Low Moderate
Severe Not - specified
 Sensor Material (check one): Zirconia Titania, or
 Other (specify material) _____
 Voltage Output Range: 0 Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 388 millimeters
 D. Length of Sensor above the Threads: 69 (Flange Type) millimeters
 E. Length of Sensor below the Threads: 29.5 (Flange Type) millimeters
 F. Thread Length: - (Flange Type) millimeters
 G. Thread Size and Class of Fit: - (Flange Type) (eg. 18 mm x 1-1/2, Class A)

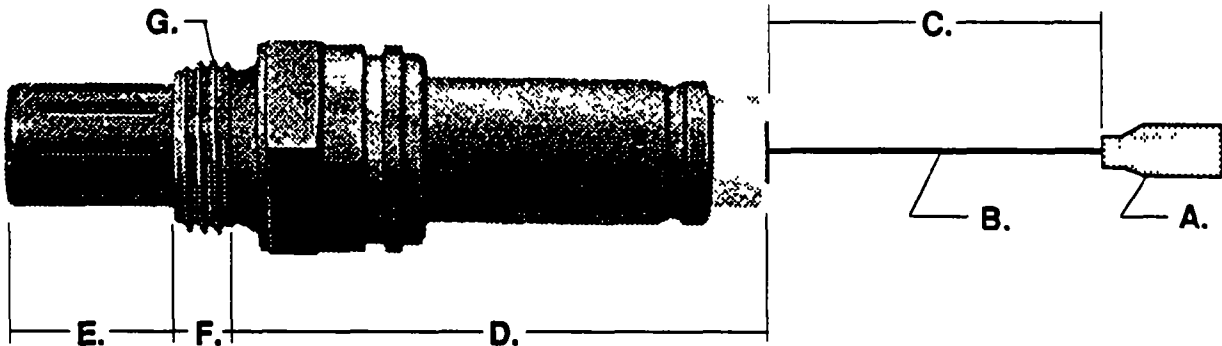
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: MD 076 706
 Suggested Retail Cost: \$ 272.⁰⁵
 Recommended Change Interval: Miles 50,000 or Years —
 Oxygen Sensor Type (check one): Heated Non - heated
 Splash Protection (check one): Low Moderate
Severe Not - specified
 Sensor Material (check one): Zirconia Titania, or
Other (specify material) _____
 Voltage Output Range: 0 Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 389 millimeters
 D. Length of Sensor above the Threads: 70 millimeters
 E. Length of Sensor below the Threads: 20 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5mm, 6g (eg. 18 mm x 1-1/2, Class A)
JIS

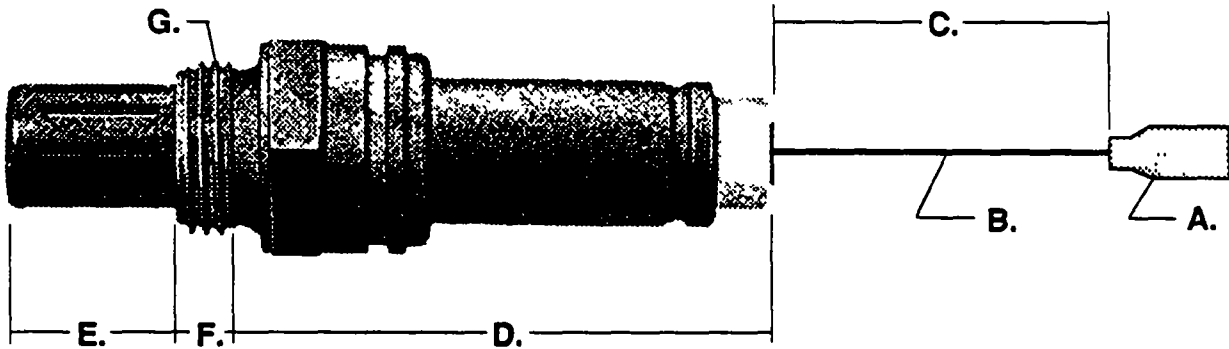
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: MD 077621
 Suggested Retail Cost: \$ 176.²⁰
 Recommended Change Interval: Miles 50,000 or Years —
 Oxygen Sensor Type (check one): Heated Non - heated
 Splash Protection (check one): Low Moderate
Severe Not - specified
 Sensor Material (check one): Zirconia Titania, or
Other (specify material) _____
 Voltage Output Range: 0 Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 239 millimeters
 D. Length of Sensor above the Threads: 70 millimeters
 E. Length of Sensor below the Threads: 20 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5mm, 6g (eg. 18 mm x 1-1/2, Class A)
JIS

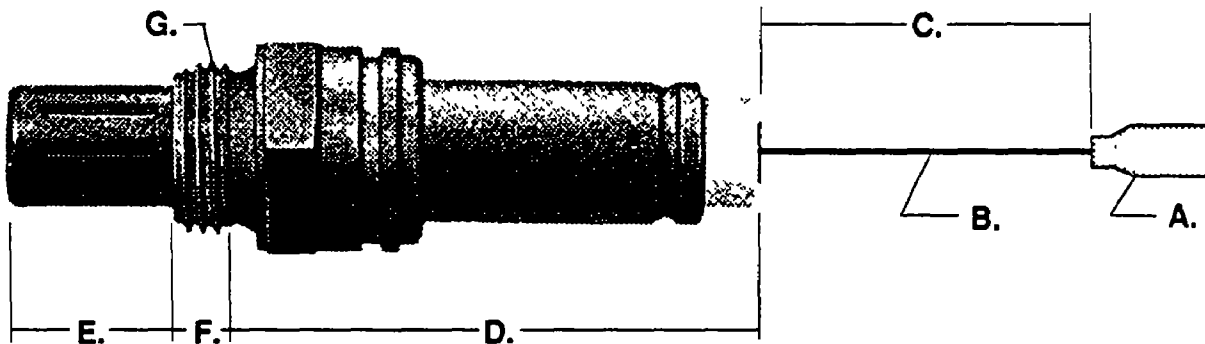
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: MD 078791
 Suggested Retail Cost: \$ 167.⁸⁸
 Recommended Change Interval: Miles 50,000 or Years —
 Oxygen Sensor Type (check one): Heated Non - heated
 Splash Protection (check one): Low Moderate
Severe Not - specified
 Sensor Material (check one): Zirconia Titania, or
Other (specify material) _____
 Voltage Output Range: 0 Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does It Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 539 millimeters
 D. Length of Sensor above the Threads: 70 millimeters
 E. Length of Sensor below the Threads: 20 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5mm, 6g (eg. 18 mm x 1-1/2, Class A)
JIS

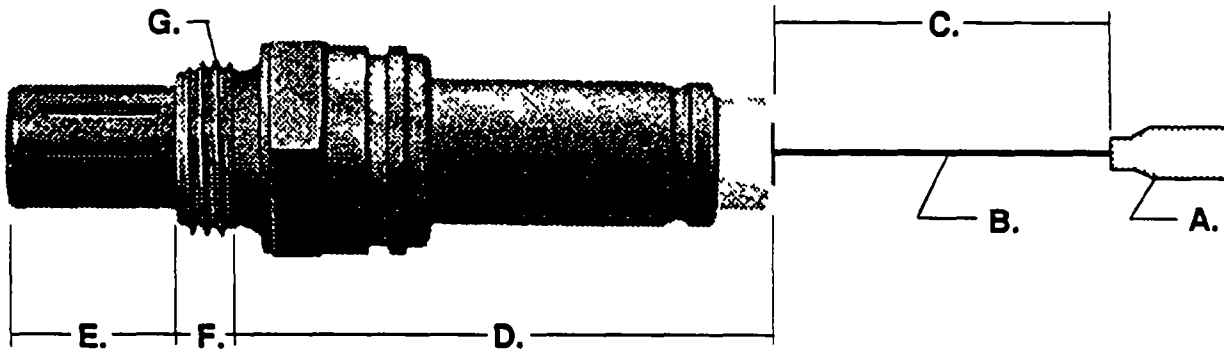
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: MD 089922
 Suggested Retail Cost: \$ 176.³⁸
 Recommended Change Interval: Miles 50,000 or Years —
 Oxygen Sensor Type (check one): Heated Non - heated
 Splash Protection (check one): Low Moderate
Severe Not - specified
 Sensor Material (check one): Zirconia Titania, or
Other (specify material) _____
 Voltage Output Range: 0 Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 309 millimeters
 D. Length of Sensor above the Threads: 70 millimeters
 E. Length of Sensor below the Threads: 20 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5mm, 6g (eg. 18 mm x 1-1/2, Class A)
JIS

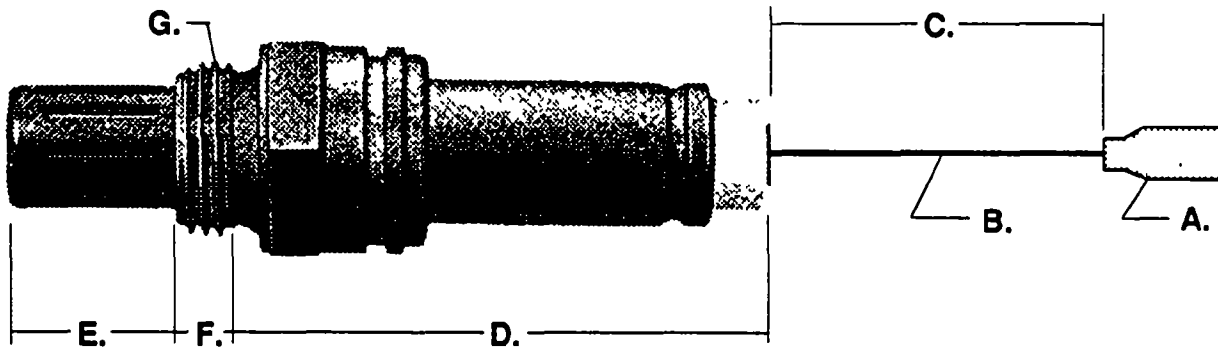
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: MD 117240
 Suggested Retail Cost: \$ 160.95
 Recommended Change Interval: Miles 50,000 or Years -
 Oxygen Sensor Type (check one): Heated Non - heated
 Splash Protection (check one): Low Moderate
Severe Not - specified
 Sensor Material (check one): Zirconia Titania, or
Other (specify material) _____
 Voltage Output Range: 0 Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 289 millimeters
 D. Length of Sensor above the Threads: 20 millimeters
 E. Length of Sensor below the Threads: 20 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5mm 6g (eg. 18 mm x 1-1/2, Class A)
JIS

NISSAN



NISSAN RESEARCH & DEVELOPMENT, INC.

3995 Research Park Drive
Ann Arbor, Michigan 48108
Telephone (313) 665-2044
Facsimile (313) 665-6146

March 28, 1988

Mr. David Wright
Project Director
Radian Corporation
10395 Old Placerville Road
Sacramento, California 95827

Dear Mr. Wright:

This letter and the following attachments, are in response to your request letter dated February 10, 1988.

With respect to the EPA study, the reference contract number is 68-03-3474.

If you have any questions regarding this information, please do not hesitate to contact me at (313) 665-2044.

Sincerely,

A handwritten signature in cursive script that reads "Wm. Kim Waggoner".

Wm. Kim Waggoner
Staff Engineer
Emission Control

lw

enclosure

ATTACHMENT A

Nissan

L	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
	<u>L24/28C</u>	{ 146.0/2.4 168.0/2.8	_____		<u>A24-000372</u>	California Only: 280 ZX 810	_____
	_____	____/____	_____		_____	_____	_____
	_____	____/____	_____		_____	_____	_____

(Continued)

EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Nissan

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
81	BNS2.DV5FB7	119.0 / 2.0	_____		<u>A24-000372</u>	200SX	_____
81	BNS2.DV5FC8	119.0 / 2.0	_____		<u>A24-000372</u>	200SX	_____
81	BNS2.BV5FB3	{ 146.0 / 2.4 168.0 / 2.8	_____		<u>A24-000372</u>	280ZX 280ZX 2+2 810 810 WAGON	_____
81	BNS2.BV5FC4	{ 146.0 / 2.4 168.0 / 2.8	_____		<u>A24-000372</u>	280ZX 280ZX 2+2 810 810 WAGON	_____
82	CNS1.5V9FAF5	91.0 / 1.5	_____		{ <u>A24-000</u> <u>A24-000001</u>	NISSAN SENTRA	_____
82	CNS2.2V5FAF1	133.0 / 2.2	_____		<u>A24-000372</u>	200SX	_____
82	CNS2.BV5FAF4	{ 146.0 / 2.4 168.0 / 2.8	_____		<u>A24-000372</u>	280ZX 280ZX 2+2 810 810 WAGON	_____
82	CNS2.BV5FCF8	168.0 / 2.8	TURBO		<u>A24-000372</u>	280ZX 280ZX 2+2	_____
83	DNS1.5V5FAF1	91.0 / 1.5	TURBO		<u>A24-600003</u>	PULSAR	_____

(continued)

a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Nissan

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
83	DNS1.5V9FAF6	91.0 / 1.5	_____		<u>A24-000</u>	NISSAN SENTRA	_____
83	DNS1.6V9FAC9	98.0 / 1.6	_____		<u>A24-600</u>	NISSAN SENTRA NISSAN SENTRA W PULSAR	_____ _____ _____
83	DNS2.2V5FAA8	133.0 / 2.2	_____		{ <u>A24-000001</u> <u>A24-600001</u>	200SX	_____
83	DNS2.4T9FAC6	146.0 / 2.4	_____		{ <u>A24-000001</u> <u>A24-600001</u>	NISSAN CAB CHAS NISSAN PICKUP 2 NISSAN PICKUP 4	_____ _____ _____
83	DNS2.8V5FAA0	{ 168.0 / 2.8 146.0 / 2.4	_____		{ <u>A24-000372</u> <u>A24-600001</u>	280ZX 280ZX 2+2 810 810 WAGON	_____ _____ _____ _____
83	DNS2.8V5FBF7	168.0 / 2.8	TURBO		{ <u>A24-000372</u> <u>A24-600001</u>	280ZX 280ZX 2+2	_____ _____
84	ENS1.6V9FACX	98.0 / 1.6	_____		<u>A24-600</u>	PULSAR/PULSAR-W SENTRA SENTRA WAGON	_____ _____ _____
84	ENS1.6V9HAF8	98.0 / 1.6	_____		<u>None</u>	PULSAR/PULSAR-W SENTRA	_____ _____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Nissan

MODEL EAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
	ENS1.6V9HAFB (cont.)					SENTRA WAGON	
84	ENS1.8V5FAF9	110.0 / 1.8	TURBO		<u>A24-601</u>	200SX	
84	ENS2.0V5FACX	120.0 / 2.0			{ <u>A24-000050</u> <u>A24-600001</u>	200SX STANZA	
84	ENS2.0V5FAF2	120.0 / 2.0			{ <u>A24-000050</u> <u>A24-600001</u>	200SX STANZA	
84	ENS2.4T9FAC7	146.0 / 2.4			{ <u>A24-000001</u> <u>A24-600001</u>	PICKUP 2WD PICKUP 4WD PICKUP CAB CHAS	
84	ENS2.4V5FAC1	146.0 / 2.4			{ <u>A24-000001</u> <u>A24-600001</u> <u>A24-000372</u> <u>A24-000050</u>	MAXIMA MAXIMA WAGON	
84	ENS2.4V5FAF4	148.0 / 2.4			{ <u>A24-000001</u> <u>A24-600001</u> <u>A24-000372</u> <u>A24-000050</u>	MAXIMA MAXIMA WAGON	
84	ENS3.0V5FAC7	181.0 / 3.0			<u>A24-601</u>	300ZX 300ZX 2+2	
84	ENS3.0V5FAFX	181.0 / 3.0			<u>A24-601</u>	300ZX 300ZX 2+2	
85	FNS1.6V9FAC0	98.0 / 1.6			{ <u>A24-600</u> <u>A24-601</u>	PULSAR	

(continued)

a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Nissan

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
FMS1.6V9FAC0 (cont.)						SENTRA SENTRA WAGON	_____
85	FMS1.6V9HAF9	98.0 / 1.6	_____	_____	<u>A24-600, A24-610</u>	PULSAR SENTRA SENTRA WAGON	_____ _____ _____
85	FMS1.8V5FAFX	110.0 / 1.8	TURBO	_____	<u>A24-601, A24-611</u>	200SX	_____
85	FMS2.0V5FAC0	120.0 / 2.0	_____	_____	<u>A24-600, A24-610</u>	STANZA	_____
85	FMS2.0V5FAF3	120.0 / 2.0	_____	_____	<u>A24-600, A24-610</u>	STANZA	_____
85	FMS2.0V5FBC2	120.0 / 2.0	_____	_____	{ <u>A24-000, A24-600</u> <u>A24-610, A24-620</u>	200SX	_____
85	FMS2.0V5FBF5	120.0 / 2.0	_____	_____	{ <u>A24-000, A24-600</u> <u>A24-610, A24-620</u>	200SX	_____
85	FMS2.0V5FCC4	120.0 / 2.0	_____	_____	{ <u>A24-000, A24-600</u> <u>A24-610, A24-620</u>	200SX	_____
85	FMS2.0V5FCF7	120.0 / 2.0	_____	_____	{ <u>A24-000, A24-600</u> <u>A24-610, A24-620</u>	200SX	_____
85	FMS2.4T9FAC8	146.0 / 2.4	_____	_____	<u>A24-600, A24-610</u>	CAB CHASSIS 2WD TRUCK 2WD TRUCK 4WD	_____ _____ _____
85	FMS2.4T8FAFD	{ 118.0 / 2.0 146.0 / 2.4	_____	_____	<u>A24-600, A24-610</u>	CAB CHASSIS 2WD TRUCK 2WD	_____ _____

(continued)

a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Nissan

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
	FNS2.4T8FAF0 (cont.)					TRUCK 4WD	
85	FNS3.0V5FAC8	181.0 / 3.0			{ A24-621 A24-601, A24-611	300ZX 300ZX 2+2	
85	FNS3.0V5FAF0	181.0 / 3.0			{ A24-621 A24-601, A24-611	300ZX 300ZX 2+2	
85	FNS3.0V5FBF2	181.0 / 3.0	TURBO		A24-601, A24-611	300ZX	
85	FNS3.0V5HAC3	181.0 / 3.0			A24-601, A24-611	MAXIMA MAXIMA WAGON	
85	FNS3.0V5HAF6	181.0 / 3.0			A24-601, A24-611	MAXIMA MAXIMA WAGON	
	GNS1.6V8FAC1	98.0 / 1.6 98.0 / 1.6			A24-600, A24-610	PULSAR SENTRA SENTRA WAGON	
	GNS1.6V8HAFX	98.0 / 1.6 98.0 / 1.6			A24-600, A24-610	PULSAR SENTRA SENTRA WAGON	
	GNS2.0V5FAC1	120.0 / 2.0 120.0 / 2.0			{ A24-620 A24-600, A24-610	STANZA WAGON 2W	
	GNS2.0V5FAF4	120.0 / 2.0 120.0 / 2.0			{ A24-620 A24-600, A24-610	STANZA WAGON 2W	

[continued]

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Nissan

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
86	GNS2.0V5FBF6	374.0 / 18 120.0/2.0	_____	_____	<u>D2F</u>	STANZA WAGON 4W	_____
	GNS2.0V5FCF8	374.0 / 18 120.0/2.0	_____	_____	{ <u>A24-610, A24-620</u> <u>A24-000, A24-600</u>	200SX	_____
	GNS2.0V5FDC7	374.0 / 18 120.0/2.0	_____	_____	<u>A24-600, A24-620</u>	200SX	_____
	GNS2.0V5FDX	374.0 / 18 120.0/2.0	_____	_____	<u>A24-600, A24-620</u>	200SX	_____
	GNS2.0V5FEF1	374.0 / 18 120.0/2.0	_____	_____	<u>A24-600, A24-610</u>	STANZA	_____
88	GNS2.0V5FGF5	374.0 / 18 120.0/2.0	_____	_____	{ <u>A24-610, A24-620</u> <u>A24-000, A24-600</u>	200SX	_____
	GNS2.4T5FAF7	389.0 / 20.1 146.0/2.4	_____	_____	<u>A24-600</u>	TRUCK 4WD	_____
	GNS2.4T5HACX	389.0 / 20.1 146.0/2.4	_____	_____	<u>A24-600, A24-620</u>	TRUCK 2WD (NEW) TRUCK 4WD (NEW)	_____
	GNS2.4T5HAF2	389.0 / 20.1 146.0/2.4	_____	_____	<u>A24-600, A24-620</u>	TRUCK 2WD (NEW) TRUCK 4WD (NEW)	_____
86	GNS2.4T9FAC9	389.0 / 20.1 146.0/2.4	_____	_____	<u>A24-600, A24-610</u>	TRUCK 2WD TRUCK 4WD	_____
	GNS2.4T8FAF1	{ 389.0 / 20.1 120.0/2.0 146.0/2.4	_____	_____	<u>A24-600, A24-610</u>	CAB CHASSIS 2WD TRUCK 2WD TRUCK 4WD	_____
86	GNS3.0T5HACS	389.0 / 20.1 181.0/3.0	_____	_____	<u>D1F</u>	TRUCK 2WD (NEW)	_____

[continued]

1) EXAMPLES - TURBO, 16 VALVE, DMC, HD, etc.

2) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Nissan

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
	GNS3.0T5HAC5 (cont.)					TRUCK 4WD (NEW)	
86	GNS3.0T5HAFB	200.0 / 18 181.0 / 3.0			D1F	CAB CHASSIS 2WD TRUCK 2WD (NEW) TRUCK 4WD (NEW)	
	GNS3.0V5FBC0	200.0 / 18 181.0 / 3.0			D2F	300ZX 300ZX 2+2	
86	GNS3.0V5FBF3	200.0 / 18 181.0 / 3.0			D2F	300ZX 300ZX 2+2	
86	GNS3.0V5FCF5	200.0 / 18 181.0 / 3.0	TURBO		D2F	300ZX	
36	GNS3.0V5HAC4	200.0 / 18 181.0 / 3.0			{ A24-621 A24-601, A24-611	MAXIMA MAXIMA WAGON	
16	GNS3.0V5HAF7	200.0 / 18 181.0 / 3.0			{ A24-621 A24-601, A24-611	MAXIMA MAXIMA WAGON	

EXAMPLES - TURBO, 16 VALVE, DOHC, NO, etc.

IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
83	DNS1.5V5FAC9	91.0 / 1.5	TURBO		A24-600003	PULSAR	
83	DNS2.8V5FBC4	168.0/2.8	TURBO		{ A24-000372 A24-600001	280ZX 280ZX 2+2	
84	ENS1.8V5FAC6	110.0/1.8	TURBO		A24-601	200SX	
84	ENS3.0V5FBF1	181.0/3.0	TURBO		A24-601	300ZX	
4	ENS3.0V5FBC9	181.0/3.0	TURBO		A24-601000	300ZX	
5	FNS1.8V5FAC7	110.0/1.8	TURBO		{ A24-601 A24-611	200SX	
5	FNS3.0V5FBCX	181.0/3.0	TURBO		{ A24-611 A24-601	300ZX	
5	GNS2.0V5FBC3	120.0/2.0			D2F	STANZA WAGON 4W	
5	GNS2.0V5FCC5	120.0/2.0			{ A24-610, A24-620 A24-600, A24-600	200SX	

EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

DEL AR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
6	GNS2.0V5FEC9	120.0, 2.0			A24-600, A24-610	STANZA	
6	GNS2.0V5FGC2	120.0/2.0			{ A24-610, A24-620 A24-000, A24-600	200SX	
6	GNS2.4T5FAC4	146.0/2.4			A24-600	TRUCK 4WD	
6	GNS3.0V5FCC2	181.0, 3.0	TURBO		D2F	300ZX	
1	BNS2.8V5FD5	168.0/2.8	TURBO		A24-000372	280ZX	
1	BNS2.8V5FE6	168.0/2.8	TURBO		A24-000372	280ZX	
5	FNS1.6V9FBC2	96.0, 1.6			A24-600, A24-610	SENTRA SENTRA WAGON PULSAR	

1 EXAMPLES - TURBO, 16 VALVE, DDMC, MD, etc.

1 IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

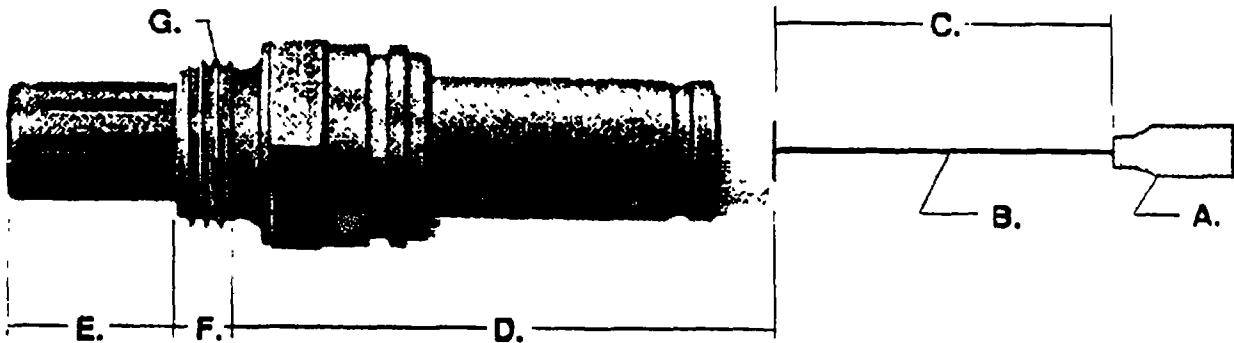
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: A24-000372
 Suggested Retail Cost: \$ 94.81
 Recommended Change Interval: Miles _____ or Years _____
 Oxygen Sensor Type (check one): _____ Heated Non - heated
 Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe Not - specified
 Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____
 Voltage Output Range: _____ Vmin to _____ Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Female (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 77 millimeters
 D. Length of Sensor above the Threads: 54 millimeters
 E. Length of Sensor below the Threads: 18 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

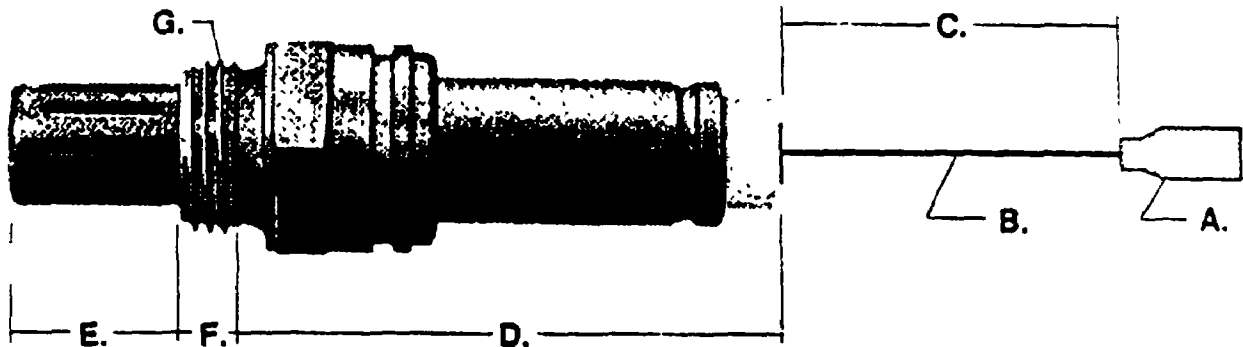
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: A24-000
 Suggested Retail Cost: \$ 94.81
 Recommended Change Interval: Miles _____ or Years _____
 Oxygen Sensor Type (check one): _____ Heated Non - heated
 Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe Not - specified
 Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____
 Voltage Output Range: _____ Vmin to _____ Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Female (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 77 millimeters
 D. Length of Sensor above the Threads: 54 millimeters
 E. Length of Sensor below the Threads: 18 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: A24-000001

Suggested Retail Cost: \$ 94.81

Recommended Change Interval: Miles _____ or Years _____

Oxygen Sensor Type (check one): _____ Heated Non - heated

Splash Protection (check one): _____ Low _____ Moderate

_____ Severe Not - specified

Sensor Material (check one): Zirconia _____ Titania, or

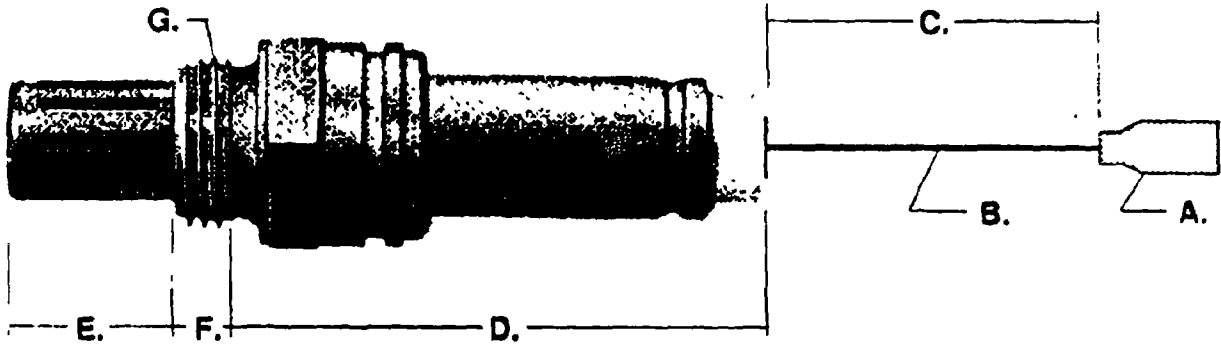
_____ Other (specify material) _____

Voltage Output Range: _____ Vmin to 1 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Female (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 77 millimeters

D. Length of Sensor above the Threads: 54 millimeters

E. Length of Sensor below the Threads: 18 millimeters

F. Thread Length: 8 millimeters

G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

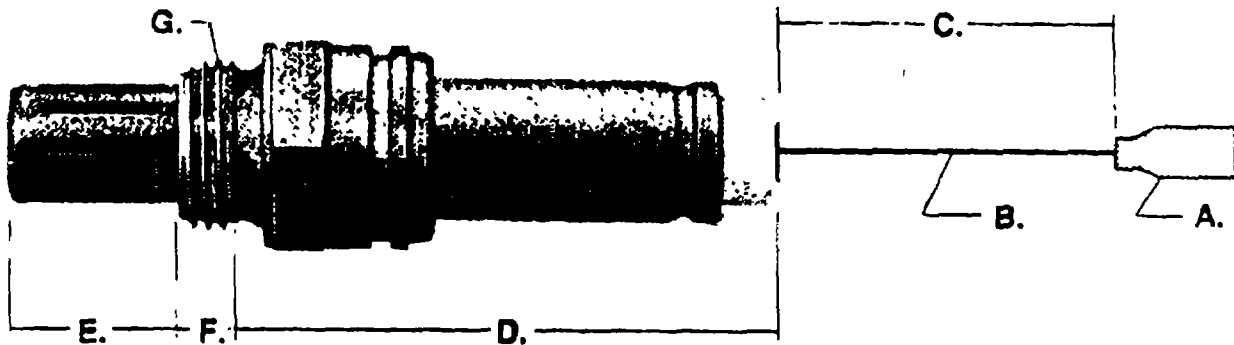
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: A24-600003
 Suggested Retail Cost: \$ 94.81
 Recommended Change Interval: Miles _____ or Years _____
 Oxygen Sensor Type (check one): _____ Heated Non - heated
 Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe Not - specified
 Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____
 Voltage Output Range: _____ Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Female (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 127 millimeters
 D. Length of Sensor above the Threads: 54 millimeters
 E. Length of Sensor below the Threads: 18 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18 mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

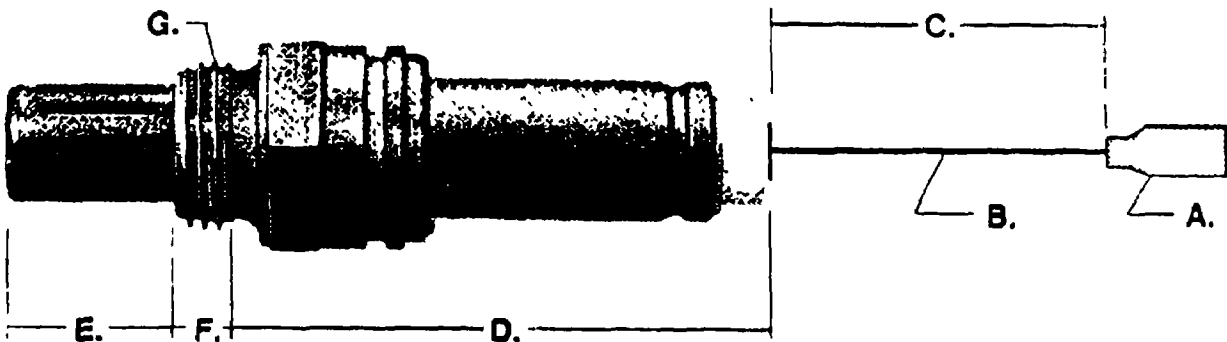
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: A24-600001
 Suggested Retail Cost: \$ 94.81
 Recommended Change Interval: Miles _____ or Years _____
 Oxygen Sensor Type (check one): _____ Heated Non - heated
 Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe Not - specified
 Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____
 Voltage Output Range: _____ Vmin to _____ Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Female (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 77 millimeters
 D. Length of Sensor above the Threads: 85 millimeters
 E. Length of Sensor below the Threads: 18 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

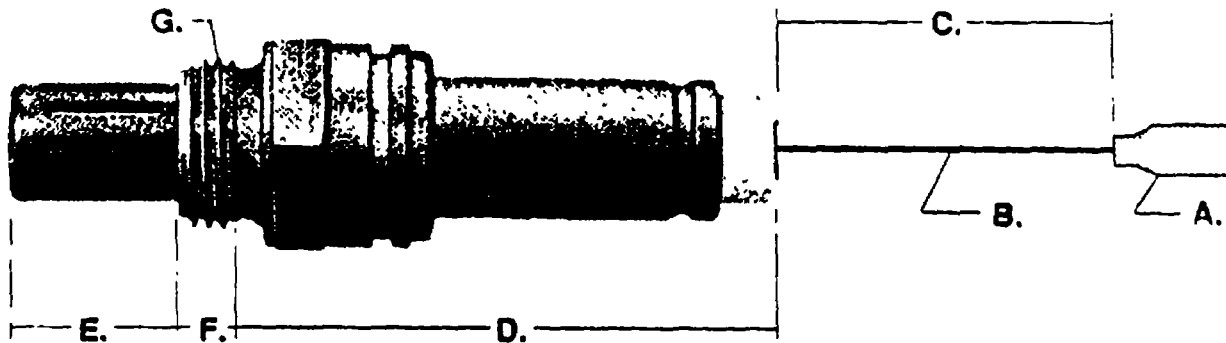
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: A24-601
 Suggested Retail Cost: \$ 138.33
 Recommended Change Interval: Miles _____ or Years _____
 Oxygen Sensor Type (check one): Heated _____ Non - heated
 Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe Not - specified
 Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____
 Voltage Output Range: _____ Vmin to _____ Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 3
 C. Wire Length: 89 millimeters
 D. Length of Sensor above the Threads: 85 millimeters
 E. Length of Sensor below the Threads: 18 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

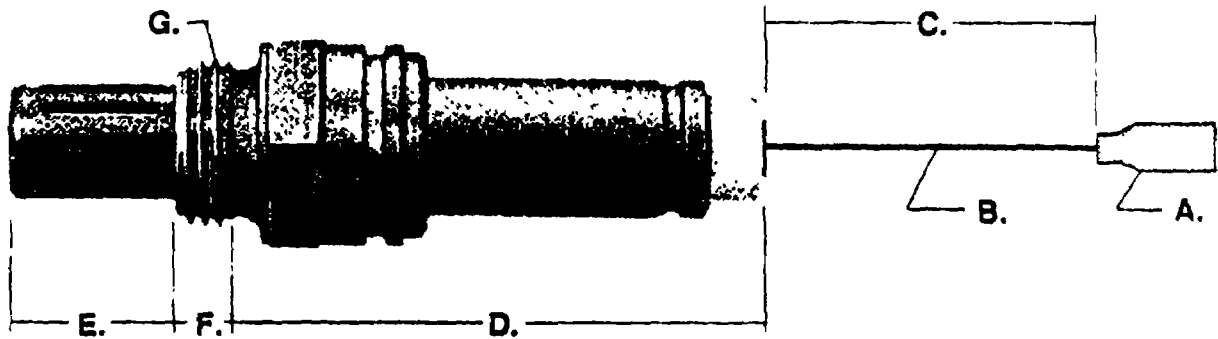
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: A24-611
 Suggested Retail Cost: \$ 138.33
 Recommended Change Interval: Miles _____ or Years _____
 Oxygen Sensor Type (check one): Heated _____ Non - heated
 Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe Not - specified
 Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____
 Voltage Output Range: _____ Vmin to _____ Vmax (volts)
 Does the Sensor Switch around 14.7:1? _____ Yes _____ No

If no, what Air / Fuel ratio does It Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 3
 C. Wire Length: 89 millimeters
 D. Length of Sensor above the Threads: 85 millimeters
 E. Length of Sensor below the Threads: 18 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

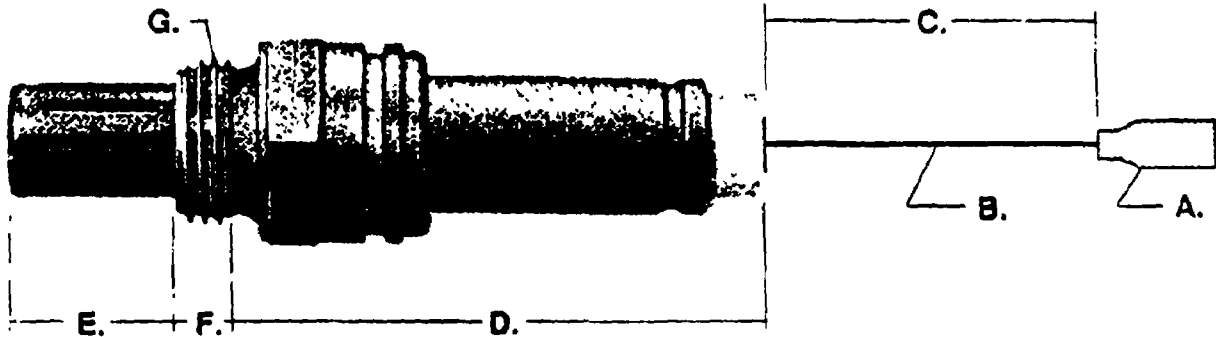
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: A24-000050
 Suggested Retail Cost: \$ 94.81
 Recommended Change Interval: Miles _____ or Years _____
 Oxygen Sensor Type (check one): _____ Heated Non - heated
 Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe Not - specified
 Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____
 Voltage Output Range: _____ Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Female (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 77 millimeters
 D. Length of Sensor above the Threads: 85 millimeters
 E. Length of Sensor below the Threads: 18 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

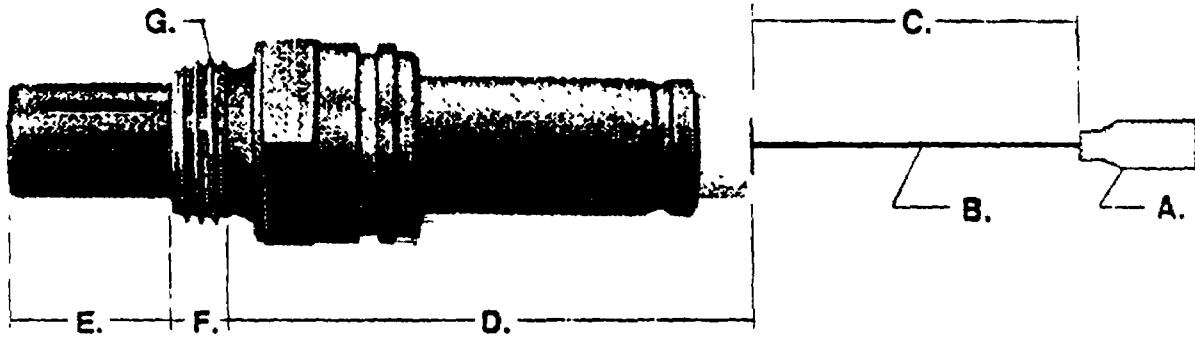
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: A24-601000
 Suggested Retail Cost: \$ 136.11
 Recommended Change Interval: Miles _____ or Years _____
 Oxygen Sensor Type (check one): Heated _____ Non - heated
 Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe Not - specified
 Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____
 Voltage Output Range: _____ Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 3
 C. Wire Length: 79 millimeters
 D. Length of Sensor above the Threads: 85 millimeters
 E. Length of Sensor below the Threads: 18 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18 mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

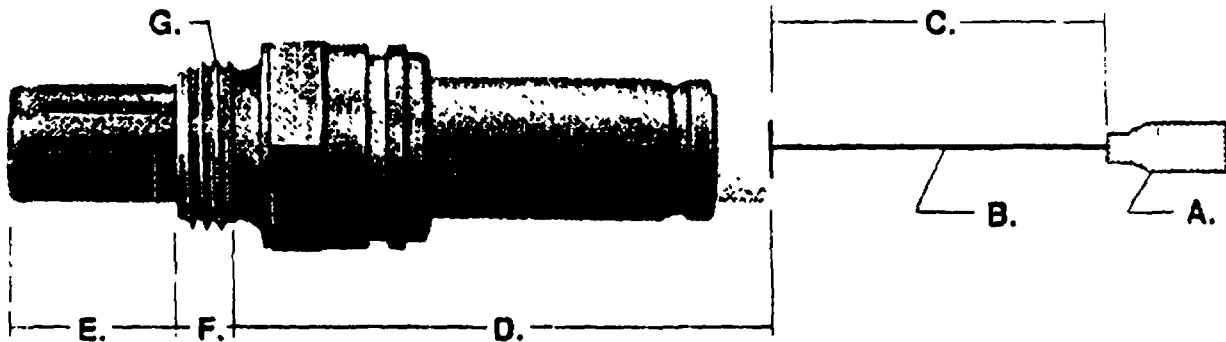
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: A24-620
 Suggested Retail Cost: \$ 94.81
 Recommended Change Interval: Miles _____ or Years _____
 Oxygen Sensor Type (check one): _____ Heated Non - heated
 Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe Not - specified
 Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____
 Voltage Output Range: 0 Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Female (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 77 millimeters
 D. Length of Sensor above the Threads: 85 millimeters
 E. Length of Sensor below the Threads: 18 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: A24-600

Suggested Retail Cost: \$ 94.81

Recommended Change Interval: Miles _____ or Years _____

Oxygen Sensor Type (check one): _____ Heated Non - heated

Splash Protection (check one): _____ Low _____ Moderate

_____ Severe Not - specified

Sensor Material (check one): Zirconia _____ Titania, or

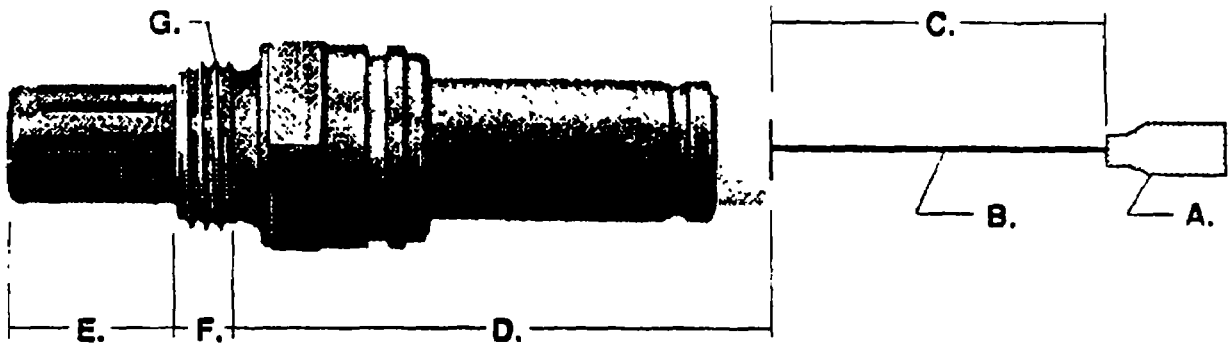
_____ Other (specify material) _____

Voltage Output Range: _____ Vmin to _____ Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Female (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 27 millimeters

D. Length of Sensor above the Threads: 54 millimeters

E. Length of Sensor below the Threads: 18 millimeters

F. Thread Length: 8 millimeters

G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

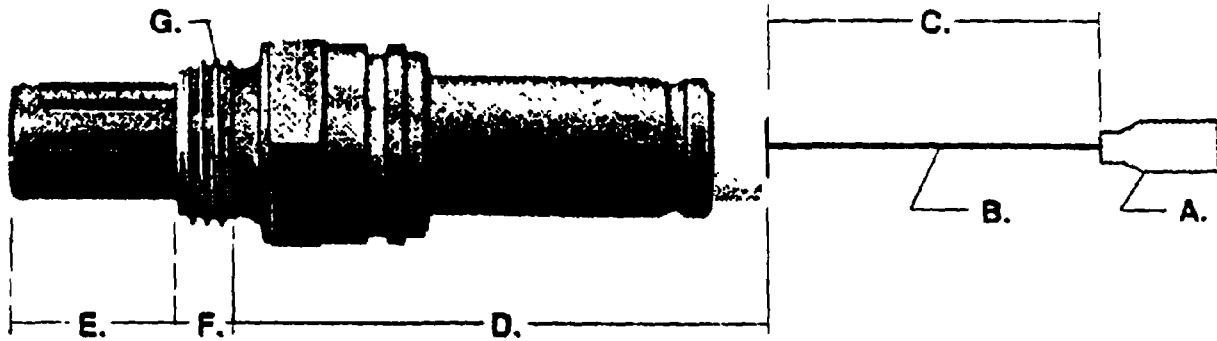
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: A24-610
 Suggested Retail Cost: \$ 94.81
 Recommended Change Interval: Miles or Years
 Oxygen Sensor Type (check one): Heated Non - heated
 Splash Protection (check one): Low Moderate
 Severe Not - specified
 Sensor Material (check one): Zirconia Titania, or
 Other (specify material)
 Voltage Output Range: 0 Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

 A / F Ratio



A. Type of Electrical Connector: Female (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 77 millimeters
 D. Length of Sensor above the Threads: 54 millimeters
 E. Length of Sensor below the Threads: 18 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

ATTACHMENT B

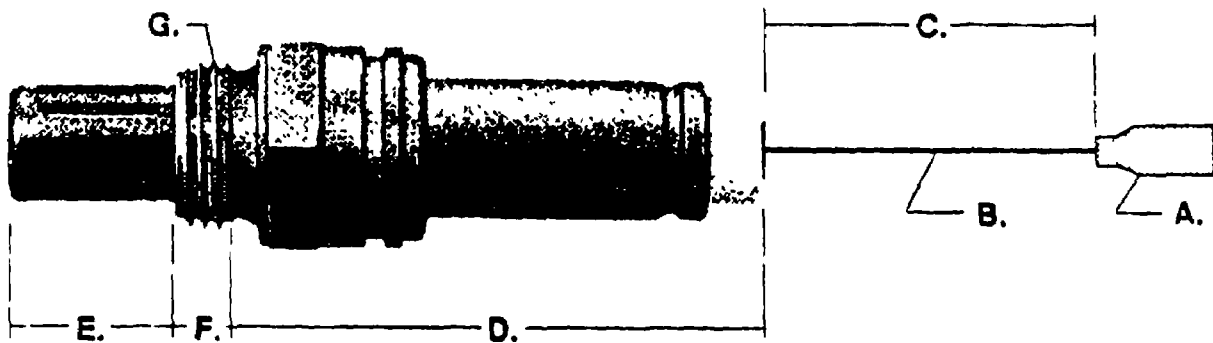
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: A24-621
 Suggested Retail Cost: \$ 136.11
 Recommended Change Interval: Miles _____ or Years _____
 Oxygen Sensor Type (check one): Heated _____ Non - heated
 Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe Not - specified
 Sensor Material (check one): Zirconia _____ Titania, or
 _____ Other (specify material) _____
 Voltage Output Range: _____ Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 3
 C. Wire Length: 89 millimeters
 D. Length of Sensor above the Threads: 85 millimeters
 E. Length of Sensor below the Threads: 18 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 18mm x 1.5 (eg. 18 mm x 1-1/2, Class A)

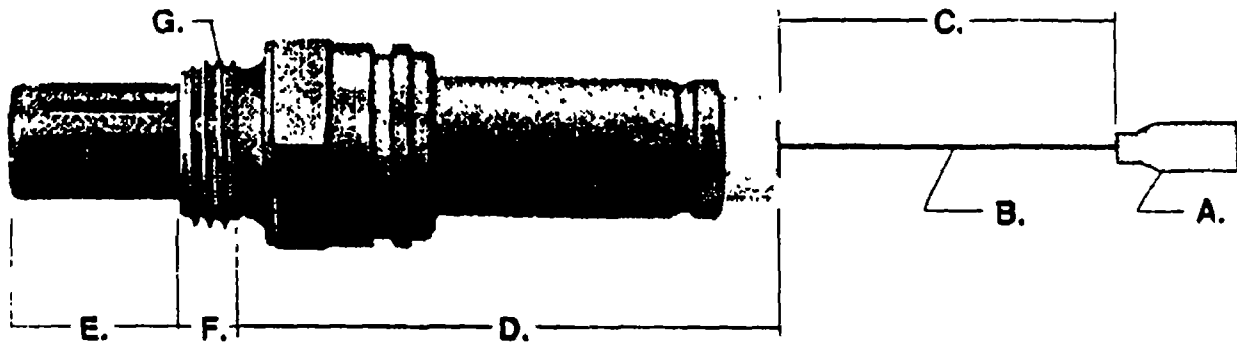
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: D2F
 Suggested Retail Cost: \$ 138.20
 Recommended Change Interval: Miles _____ or Years _____
 Oxygen Sensor Type (check one): Heated _____ Non - heated
 Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe Not - specified
 Sensor Material (check one): _____ Zirconia Titania, or
 _____ Other (specify material) _____
 Voltage Output Range: _____ Vmin to _____ Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 3
 C. Wire Length: 134 millimeters
 D. Length of Sensor above the Threads: 53.5 millimeters
 E. Length of Sensor below the Threads: 20 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 12mm x 1.25 (eg. 18 mm x 1-1/2, Class A)

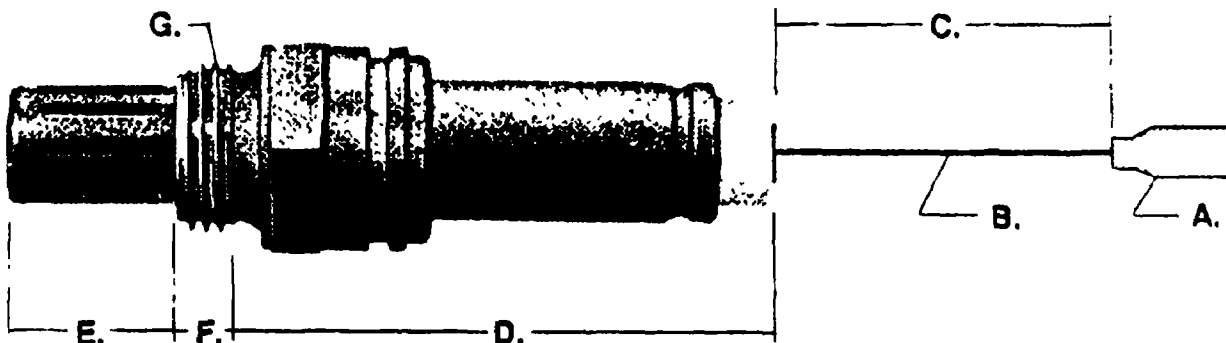
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: D1F
 Suggested Retail Cost: \$ 141.90
 Recommended Change Interval: Miles _____ or Years _____
 Oxygen Sensor Type (check one): Heated _____ Non - heated
 Splash Protection (check one): _____ Low _____ Moderate
 _____ Severe Not - specified
 Sensor Material (check one): _____ Zirconia Titania, or
 _____ Other (specify material) _____
 Voltage Output Range: 0 Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes _____ No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 3
 C. Wire Length: 1700 millimeters
 D. Length of Sensor above the Threads: 60.5 millimeters
 E. Length of Sensor below the Threads: 16.5 millimeters
 F. Thread Length: 8 millimeters
 G. Thread Size and Class of Fit: 12 mm x 1.25 (eg. 18 mm x 1-1/2, Class A)

TOYOTA

Toyota

TOYOTA TECHNICAL CENTER, U.S.A., INC.
ANN ARBOR BRANCH
1588 WOODRIDGE, ANN ARBOR, MI 48105, PHONE (313) 769-1350

March 7, 1988

MR. DAVID WRIGHT
Radian Corporation
10395 Old Placerville Rd
Sacramento, CA 95827

Dear Mr. Wright:


I am enclosing the information which you requested in your recent letter.

I have supplied you with the oxygen sensor assembly part number which includes the gasket due to the fact that in After Market, these items are commonly ordered as a complete set.

If you have any questions, please feel free to call me at the above number.

Sincerely,

TOYOTA TECHNICAL CENTER, U.S.A., INC.


Jun Tsuboi
Staff Engineer

JT/jb

Enclosures

ATTACHMENT A

Toyota

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
81	BTY1.8V2FC7	144.0 / 2.4 108.0 / 1.8	Type <u>3T-C</u>		<u>89465-19055</u>	COROLLA COROLLA WAGON	_____ _____
81	BTY1.8V2HF3	108.0 / 1.8	<u>3T-C</u>		<u>89465-19055</u>	COROLLA COROLLA WAGON	_____ _____
81	BTY2.8V5HB4	168.0 / 2.8	<u>5M-E (FL)</u>		<u>89465-29075</u>	CELICA SUPRA CRESSIDA CRESSIDA WAGON	_____ _____ _____
82	CTY1.5V2ECC9	89.0 / 1.5	<u>3A-C</u>		<u>89465-29045</u>	COROLLA TERCEL	_____
82	CTY1.8V2FCC8	108.0 / 1.8	<u>3T-C</u>		<u>89465-19055</u>	COROLLA COROLLA WAGON	_____ _____
82	CTY1.8V2HFF1	108.0 / 1.8	<u>3T-C</u>		<u>89465-19055</u>	COROLLA COROLLA WAGON	_____ _____
82	CTY2.4T2EBB9	144.0 / 2.4	<u>22R-C</u>		<u>89465-29045</u>	3/4 TON TRUCK 2 CAB CHASSIS TRUCK 2WD TRUCK 4WD	_____ _____ _____ _____
82	CTY2.4V2ECC0	144.0 / 2.4	<u>22R-C</u>		<u>89465-29045</u>	CELICA CORONA CORONA WAGON	_____ _____ _____
82	CTY2.4V2EFF9	144.0 / 2.4	<u>22R-C</u>		<u>89465-29045</u>	CELICA	_____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Toyota

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
	CTY2.4V2EFF9 (cont.)						CORONA CORONA WAGON
82	CTY2.8V5HBB9	168.0 / 2.8	5M-E (FL)		89465-29075	CRESSIDA CRESSIDA WAGON	
82	CTY2.8V5HBB3	168.0 / 2.8	5M-GE (FL) DOHC		89465-29075	CELICA SUPRA	
83	DTY1.3V5FBBX	79.0 / 1.3	4K-E (FL)		89465-19055	STARLET	
83	DTY1.6V2FCC8	89.0 / 1.5 77.0 / 1.6	3A/4A		89465-29075	COROLLA COROLLA WAGON TERCEL TERCEL WAGON 4W	
83	DTY1.6V2HFF1	89.0 / 1.5 77.0 / 1.6	3A/4A		89465-29075	TERCEL, Corolla, Corolla Wagon TERCEL WAGON 4W	
83	DTY2.0V5FBB0	122.0 / 2.0	2S-E (FL)		89465-39105	CAMRY	
83	DTY2.4T2EBBX	144.0 / 2.4	22R-C		89465-29045	CAB CHASSIS TRUCK 2WD TRUCK 4WD	
83	DTY2.4V2EBB9	144.0 / 2.4	22R-C		89465-29045	CELICA	
83	DTY2.4V5FBB2	144.0 / 2.4	22R-FC (FL)		89465-19055	CELICA	

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Toyota

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
83	DTY2.8V5FBB4	188.0 / 2.8	5MGE(FI DOHC)		89465-29075	CELICA SUPRA CRESSIDA CRESSIDA WAGON	_____ _____ _____
84	DTY2.8V5FBB4 E 5	188.0 / 2.8	5MGE(FI DOHC)		89465-29075	CELICA SUPRA CRESSIDA CRESSIDA WAGON	_____ _____ _____
84	ETY1.6V2FCC9	89.0 / 1.5 97.0 / 1.6	3A/4A		89465-29075	COROLLA COROLLA SPORT TERCEL TERCEL WAGON TERCEL WAGON 4W	_____ _____ _____ _____ _____
85	ETY1.6V2FCC9	89.0 / 1.5 97.0 / 1.6	3A/4A		89465-29075	TERCEL TERCEL WAGON 2W TERCEL WAGON 4W	_____ _____ _____
84	ETY1.6V2HFF2	89.0 / 1.5 97.0 / 1.6	3A/4A		89465-29075	COROLLA COROLLA SPORT TERCEL TERCEL WAGON TERCEL WAGON 4W	_____ _____ _____ _____ _____
84	ETY2.0T5FBB2	122.0 / 2.0	3YE(FI)		89465-19055	CARGO VAN 2WD VAN 2WD	_____ _____
84	ETY2.0V5FBB1	122.0 / 2.0	2SE(FI)		89465-39105	CAMRY	_____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Toyota

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
85	F ETX2.0V5FBBX ²	122.0 / 2.0	3E(FI)		89465-39105	CAMRY	
84	ETY2.4T2EBB0	144.0 / 2.4	22R-C		89465-29045	4-RUNNER 4WD CAB CHASSIS 2WD TRUCK 2WD TRUCK 4WD	
84	ETY2.4T5FBB4	144.0 / 2.4	22R-E(FI)		89465-19055	TRUCK 2WD	
84	ETY2.4V5FBB3	144.0 / 2.4	22R-E(FI)		89465-19055	CELICA	
85	FTY1.6V2FCCX	97.0 / 1.6 89.0 / 1.5	3A/4A		89465-29075	COROLLA Tercel, Tercel Wagon COROLLA SPORT Tercel Wagon 4WD	
85	FTY1.6V5FBB8	97.0 / 1.8	4A-GE(FI) 16V DOH		89465-29045 89465-19135(MR2)	COROLLA SPORT MR2	
85	FTY2.0T5FBB3	122.0 / 2.0	3E(FI)		89465-19055	CARGO VAN 2WD VAN 2WD	
85	FTY2.4T2FCC7	144.0 / 2.4	22R-C		89465-19055	TRUCK 2WD TRUCK 4WD	
85	FTY2.4T5FBB5	144.0 / 2.4	22R-EC(FI)		89465-19055	1-TON TRUCK 2WD 4-RUNNER 4WD CAB CHASSIS 2WD	

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Toyota

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
FTY2.4T5FBBS (cont.)						TRUCK 2WD	_____
						TRUCK 4WD	_____
85	FTY2.8V5FBBS	188.0 / 2.8	5M-GE (FI, DOHC)		<u>89465-29075</u>	CELICA SUPRA CRESSIDA CRESSIDA WAGON	_____ _____ _____
88	GTU1.6V2FCCD	87.0 / 9.8 97 / 1.6	3A/4A		<u>89465-29075</u>	COROLLA COROLLA SPORT TERCEL TERCEL WAGON 2W TERCEL WAGON 4W	_____ _____ _____ _____ _____
88	GTU1.6V2HFF4	87.0 / 9.8 97 / 1.6	3A/4A		<u>89465-29075</u>	COROLLA COROLLA SPORT TERCEL TERCEL WAGON 2W TERCEL WAGON 4W	_____ _____ _____ _____ _____
88	GTU1.6V5FBBS	87.0 / 9.8 97 / 1.6	4A-GE (FI, 16V DOHC)		<u>89465-29045</u> <u>89465-19135</u>	COROLLA SPORT MR2	_____ _____
88	GTU2.0V5FBBS	99.0 / 18 122 / 20	2S-E (FI)		<u>89465-39105</u>	CAMRY CELICA	_____ _____
88	GTU2.0V5FBBS	99.0 / 18 122 / 20	3S-GE (FI, 16V DOHC)		<u>89465-29165</u>	CELICA	_____
88	GTU2.0V5FBBS	99.0 / 18 122 / 20	3S-GE (FI, 16V DOHC)		<u>89465-29165</u>	CELICA	_____

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Toyota

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
86	GTY2.2T5FBB5	237.0 / 9.0 ^{2.2}	4Y-E (FI)		89465-19055	CARGO VAN 2WD VAN 2WD	_____ _____
86	GTY2.4T2FCC8	366.0 / 8.0 ^{2.4}	22R-C		89465-19055	TRUCK 2WD TRUCK 4WD	_____ _____
86	GTY2.4T5FBB8	366.0 / 8.0 ^{2.4}	22R-EC (FI)		89465-19055	1-TON TRUCK 2WD 4-RUNNER 4WD CAB/CHASSIS TRUCK 2WD TRUCK 4WD	_____ _____ _____ _____ _____
86	GTY2.4T5FBT7	366.0 / 8.0 ^{2.4}	22R-TE (FI, TURBO)		89465-29075	4-RUNNER 4WD TRUCK 2WD TRUCK 4WD	_____ _____ _____
86	GTY2.8V5FBB7	759.0 / 42 ^{2.8}	5M-GE (FI, DOHC)		89465-29075	CELICA SUPRA CRESSIDA CRESSIDA WAGON	_____ _____ _____
86	GTY3.0V5FBB0	954.0 / 18 ^{3.0}	7M-GE (FI 24V DOHC)		89465-19155	SUPRA	_____

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
81	BTY24V2EF6	144, 2.4	22R-C		89465-29045	Celica, Corona Corona Wagon	
81	BTY2.4V2EC3	144, 2.4	22R-C		89465-29045	Celica, Corona Corona Wagon	
81	BTY24T2EM7	144, 2.4	22R-C		89465-29045	Truck 2WD Truck 4WD 3/4 ton 2WD C & C	

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 89465 - 19026

Suggested Retail Cost: \$ 79.85

Recommended Change Interval: Miles 30,000 or Years 2

Oxygen Sensor Type (check one): Heated Non - heated

Splash Protection (check one): Low Moderate

Severe Not - specified

Sensor Material (check one): Zirconia Titania, or

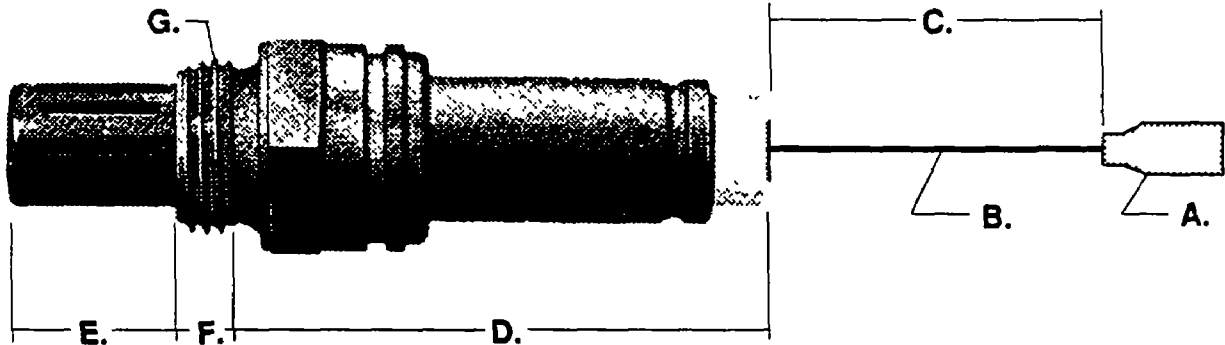
Other (specify material) _____

Voltage Output Range: 0 Vmin to 1 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Blade Male (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 516.5 millimeters

D. Length of Sensor above the Threads: 91 millimeters

E. Length of Sensor below the Threads: 29.5 millimeters

F. Thread Length: N/A millimeters

G. Thread Size and Class of Fit: N/A (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 89465 - 19055

Suggested Retail Cost: \$ 79.85

Recommended Change Interval: Miles 60,000 or Years 6 for LDT only

Oxygen Sensor Type (check one): Heated Non - heated

Splash Protection (check one): Low Moderate

Severe Not - specified

Sensor Material (check one): Zirconia Titania, or

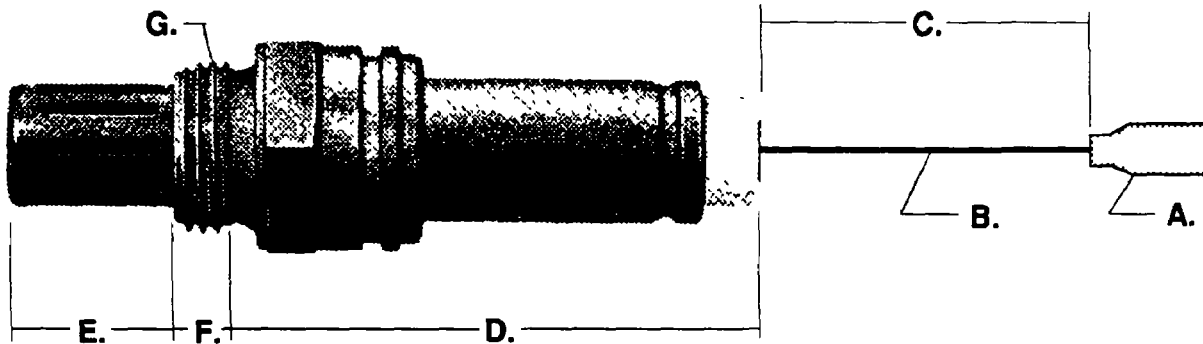
Other (specify material) _____

Voltage Output Range: 0 Vmin to 1 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Blade Male (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 212 millimeters

D. Length of Sensor above the Threads: 90 millimeters

E. Length of Sensor below the Threads: 29.5 millimeters

F. Thread Length: N/A millimeters

G. Thread Size and Class of Fit: N/A (eg. 18 mm x 1-1/2, Class A)

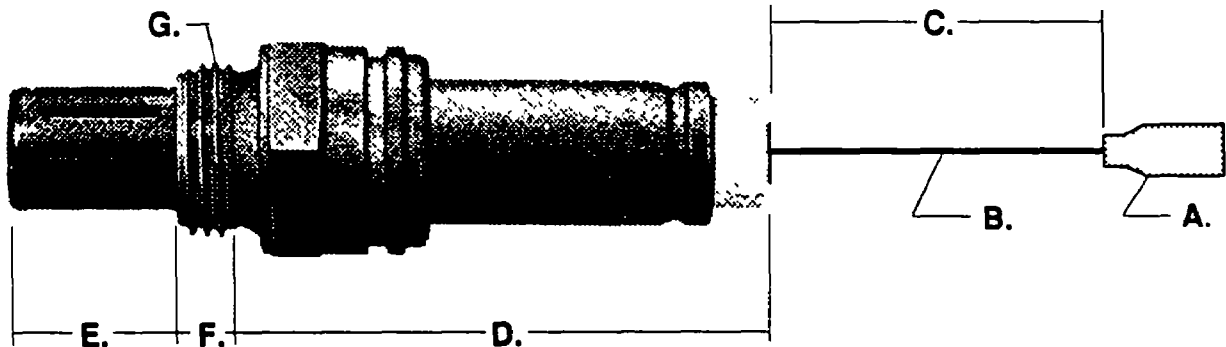
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 89465 - 19135
 Suggested Retail Cost: \$ 79.85
 Recommended Change Interval: Miles N/A or Years N/A
 Oxygen Sensor Type (check one): Heated Non - heated
 Splash Protection (check one): Low Moderate
Severe Not - specified
 Sensor Material (check one): Zirconia Titania, or
Other (specify material) _____
 Voltage Output Range: 0 Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Blade . Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 362 millimeters
 D. Length of Sensor above the Threads: 90 millimeters
 E. Length of Sensor below the Threads: 29.5 millimeters
 F. Thread Length: N/A millimeters
 G. Thread Size and Class of Fit: N/A (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 89465 - 19155

Suggested Retail Cost: \$ 79.85

Recommended Change Interval: Miles N/A or Years N/A

Oxygen Sensor Type (check one): Heated Non - heated

Splash Protection (check one): Low Moderate
Severe Not - specified

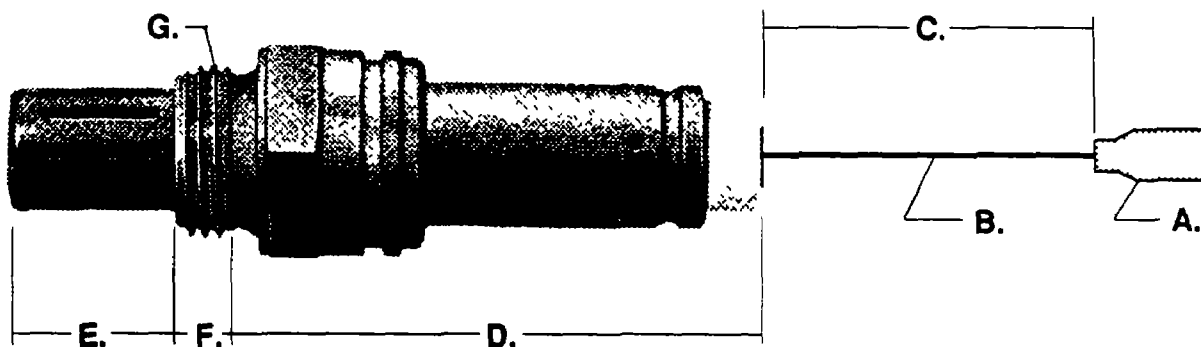
Sensor Material (check one): Zirconia Titania, or
Other (specify material) _____

Voltage Output Range: 0 Vmin to 1 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Blade Male (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 212 millimeters

D. Length of Sensor above the Threads: 90 millimeters

E. Length of Sensor below the Threads: 29.5 millimeters

F. Thread Length: N/A millimeters

G. Thread Size and Class of Fit: N/A (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 89465-29075

Suggested Retail Cost: \$ 79.85

Recommended Change Interval: Miles 60,000 or Years 6 *for LDT only*

Oxygen Sensor Type (check one): Heated Non-heated

Splash Protection (check one): Low Moderate
Severe Not-specified

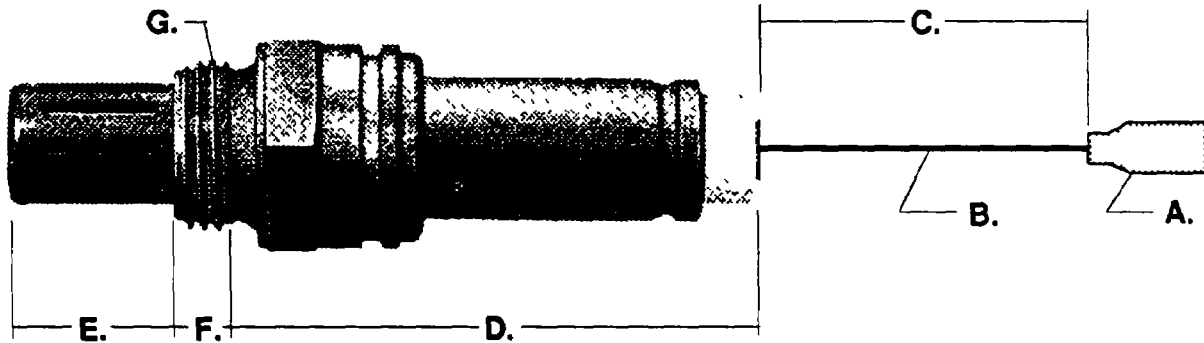
Sensor Material (check one): Zirconia Titania, or
 Other (specify material) _____

Voltage Output Range: 0 Vmin to 1 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Blade Male (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 362 millimeters

D. Length of Sensor above the Threads: 90 millimeters

E. Length of Sensor below the Threads: 29.5 millimeters

F. Thread Length: N/A millimeters

G. Thread Size and Class of Fit: N/A (eg. 18 mm x 1-1/2, Class A)

Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 89465 - 29165

Suggested Retail Cost: \$ 79.85

Recommended Change Interval: Miles N/A or Years N/A

Oxygen Sensor Type (check one): Heated Non - heated

Splash Protection (check one): Low Moderate

Severe Not - specified

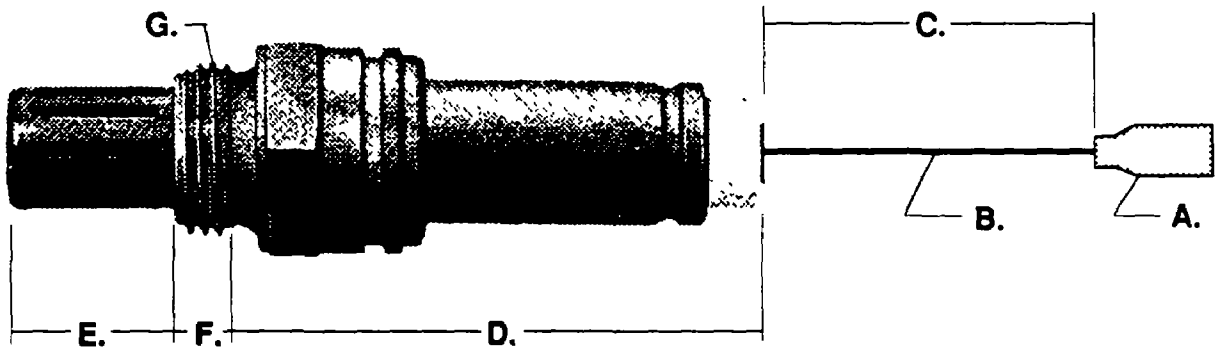
Sensor Material (check one): Zirconia Titania, or
 Other (specify material) _____

Voltage Output Range: 0 Vmin to 1 Vmax (volts)

Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Blade Male (eg. Blade, Male)

B. Number of Wire(s) attached to Sensor: 1

C. Wire Length: 212 millimeters

D. Length of Sensor above the Threads: 90 millimeters

E. Length of Sensor below the Threads: 29.5 millimeters

F. Thread Length: N/A millimeters

G. Thread Size and Class of Fit: N/A (eg. 18 mm x 1-1/2, Class A)

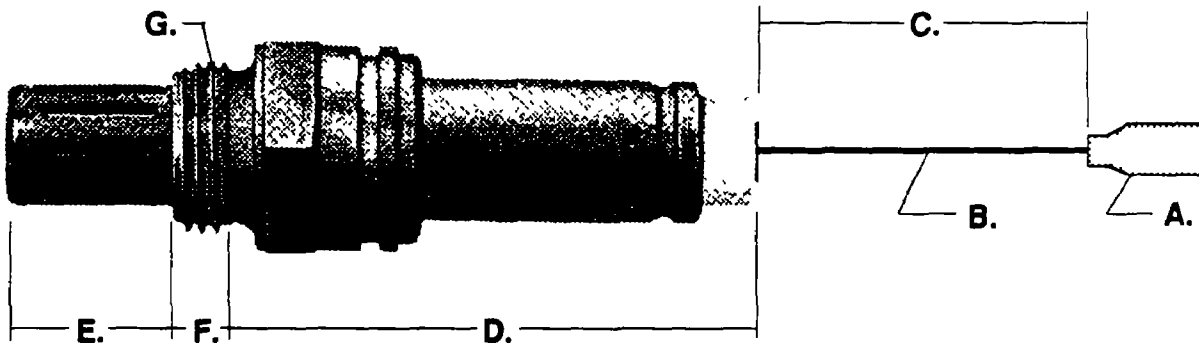
Oxygen Sensor Data Sheet

Note: Please complete a separate data sheet for each oxygen sensor part number identified on the vehicle list.

Oxygen Sensor Part Number: 89465 - 39105
 Suggested Retail Cost: \$ 79.85
 Recommended Change Interval: Miles N/A or Years N/A
 Oxygen Sensor Type (check one): Heated Non - heated
 Splash Protection (check one): Low Moderate
 Severe Not - specified
 Sensor Material (check one): Zirconia Titania, or
 Other (specify material) _____
 Voltage Output Range: 0 Vmin to 1 Vmax (volts)
 Does the Sensor Switch around 14.7:1? Yes No

If no, what Air / Fuel ratio does it Switch at?

_____ A / F Ratio



A. Type of Electrical Connector: Blade Male (eg. Blade, Male)
 B. Number of Wire(s) attached to Sensor: 1
 C. Wire Length: 387 millimeters
 D. Length of Sensor above the Threads: 65 millimeters
 E. Length of Sensor below the Threads: 29.5 millimeters
 F. Thread Length: N/A millimeters
 G. Thread Size and Class of Fit: N/A (eg. 18 mm x 1-1/2, Class A)

VOLKSWAGEN

Volkswagen



VOLKSWAGEN OF AMERICA, INC.

888 W Big Beaver
P O Box 3951
Troy Michigan 48007 3951
Tel (313) 362-6000
WU Telex — 230 628

March 16, 1988

Mr. David Wright
Radian Corporation
10395 Old Placerville Road
Sacramento, CA 95827

Dear Mr. Wright,

In response to your information request to Mr. W. Groth on VW vehicles involved in an EPA study on Inspection/Maintenance Program on cost waivers, please find enclosed information available. Compiling this information together, which as you see still falls short of all the data on Oxygen Sensors used on VW vehicles since 1980 that you have requested, due to its proprietary nature, involved some extensive search. This accounts for the delay in submitting our response. Regarding the cost of oxygen sensors on VW vehicles, there is a variation and the average turns out to be about \$100.00. The heated oxygen sensors are more expensive. Their cost is about \$120.00.

Hope this information proves useful.

Regards,

A handwritten signature in cursive script, appearing to read 'Jagadish', written over a horizontal line.

Jagadish Seshadri
Emission Regulations & Certification

Volkswagen

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
'80	Dasher CL	97 / 1.6			035906265	California Only:	
	37 CL	97 1.6			035906265B	Dasher	
					035906265	Jetta	
					035906265B	Scirocco	
	37 PC	97 1.6			-	Rabbit	
						Pickup	
'80	11	120 /			039906265	California & Federal	
	12	120			0258001007	Vanagon	
					None	Federal	

(a) EXAMPLES - TURBO, 18 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

Volkswagen

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
81	8VW1.7V8FC83	105.0 / 1.7	_____	_____	035906265 035906265B	JETTA RABBIT	_____
					035906265 035906265B	SCIROCCO	_____
81	8VW1.7V6FF53	105.0 / 1.7	_____	_____	_____	JETTA RABBIT SCIROCCO	_____
					035906265 0258001014	SCIROCCO	_____
82	CVW1.7V1FAB8	105.0 / 1.7	_____	_____	_____	RABBIT	_____
82	CVW1.7V8FAC5	105.0 / 1.7	_____	_____	035906265 0258001014	JETTA	_____
					035906265B 0258001026	RABBIT	_____
82	CVW1.7V8FAF8	105.0 / 1.7	_____	_____	"	JETTA RABBIT	_____
					"	RABBIT	_____
82	CVW1.7V8FBFX	105.0 / 1.7	_____	_____	_____	QUANTUM QUANTUM WAGON	_____
					"	QUANTUM WAGON	_____
82	CVW1.7V8FSC7	105.0 / 1.7	_____	_____	_____	SCIROCCO	_____
82	CVW1.7V8FSFX	105.0 / 1.7	_____	_____	"	SCIROCCO	_____
					035906265B	SCIROCCO	_____
83	DVW1.7V1FAB7	105.0 / 1.7	_____	_____	0258001014	RABBIT	_____
					035906265	RABBIT	_____
83	DVW1.7V8FAC8	105.0 / 1.7	_____	_____	0258001014	JETTA	_____

(continued)

(a) EXAMPLES - TURBO, 18 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Volkswagen

Volkswagen

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
	DWM1.7V8FAC8 (cont.)				035906265B 0258001026	QUANTUM QUANTUM WAGON RABBIT RABBIT CONVERTI SCIROCCO	_____ _____ _____ _____ _____
83 (84)	DWM1.7V8FAC8	105.0 / 1.7	_____		_____	JETTA RABBIT	_____ _____
83	DWM1.7V8FAF9	105.0 / 1.7	_____		035906265 0258001014 035906265B 0258001026	JETTA QUANTUM QUANTUM WAGON RABBIT RABBIT CONVERTI SCIROCCO	_____ _____ _____ _____ _____ _____
83	DWM1.8V8FAAX	109.0 / 1.8	_____		035906265 0258001014 0258001026	RABBIT SCIROCCO	_____ _____
84	EVW1.7V1FAB8	105.0 / 1.7	_____		035906265B 0258001026 0258001051	RABBIT	_____ _____ _____
84	EVW1.7V8FAFX	105.0 / 1.7	_____		035906265B 0258001051 } Bosch	JETTA RABBIT	_____ _____
84	EVW1.8V8FAC2	109.0 / 1.8	_____		035906265B 0258001051 } Bosch	RABBIT	_____ _____
84	EVW1.8V8FAF5	109.0 / 1.8	_____		035906265B 0258001051 } Bosch	JETTA	_____ _____

(continued)

(a) EXAMPLES - TURBO, 18 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Volkswagen

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
	EVW1.8V6FAF5 (cont.)				0258001026 (Bosch) 035906265B 0258001051 (Bosch)	RABBIT CONVERTI SCIROCCO CABRIOLET SCIROCCO	
84 85	EVW1.8V6FAF5	109.0 / 1.8					
84	EVW1.9T5CVA2	117.0 / 1.9				VANAGON 2WD	
84 85	EVW1.9T5CVA2	117.0 / 1.9			025906265 035906265	VANAGON 2WD	
84	EVW2.2V6FBF1	131.0 / 2.1			035906265B 035906265B	QUANTUM QUANTUM WAGON	
85	FVW1.8V6FAC3	109.0 / 1.8			0258001026 } Bosch 0258001051 } 034906265A 034906265B	GOLF/GTI JETTA	
85	FVW1.8V6FGC4	109.0 / 1.8			0258003014 (Bosch)	GOLF/GTI JETTA	
85	FVW1.9T5CVF8	117.0 / 1.9			025906265 035906265	VANAGON 2WD	
85	FVW2.2V6FBCX	138.0 / 2.2			035906265B	QUANTUM	
88	GVW1.8V6FAC4	109.0 / 1.8			035906265B 0258001026 } Bosch 0258001051 }	GOLF JETTA	
88	GVW1.8V6FAF7	109.0 / 1.8			035906265B 0258001051 (Bosch)	GOLF	

(continued)

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HO, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

Volkswagen

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE CID / LITERS	SPECIAL ENGINE DESCRIPTOR (a)	ENGINE FAMILY SALES FOR MODEL YEAR	RECOMMENDED OEM OXYGEN SENSOR PART NUMBER (b)	MODELS	BODY STYLE DESIGNATION (if applicable)
	GVW1.8V8FAF7 [cont.]				034906265A	JETTA	
88	GVW1.8V8FGA3	109.0 / 1.8			034906265B 0258003014 (Bosch)	GTI	
					035906265B	JETTA GLI	
88	GVW1.8V8FSC8	109.0 / 1.8			0258001026 } Bosch 0258001051	CABRIOLET	
					035906265B	SCIROCCO	
88	GVW1.8V8FSF9	109.0 / 1.8			0258001026 } Bosch 0258001051	CABRIOLET	
						SCIROCCO	
88	GVW2.1T5CVAB	129.0 / 2.1			025906265B	SCIROCCO 16V	
					035906265B	VANAGON 2WD	
88	GVW2.2V8FBF3	136.0 / 2.2			0258001026 } Bosch 0258001051	QUANTUM	
						QUANTUM WAGON	

(a) EXAMPLES - TURBO, 16 VALVE, DOHC, HD, etc.

(b) IF MORE THAN ONE OXYGEN SENSOR IS USED WITH A GIVEN ENGINE FAMILY, PLEASE DENOTE THE SENSOR USED WITH EACH MODEL.

(Continued)

Oxygen Sensor Information - VW Vehicles

Model	Engine Displacement	MY	OS - Part Number
Rabbit	1,7 liter	1980-84	035906265B
Scirocco	1,7 liter	1980-84	035906265B
	1,8 liter	1983-87	035906265B
16V	1,9 liter	1986	034906265A
GTI	1,8 liter	1983-84	035906265B
	1,8 liter	1985-87	034906265A
16V	1,9 liter	1987	034906265A
Jetta	1,7 liter	1980-84	035906265B
	1,8 liter	1985-87	035906265B
GLI	1,8 liter	1984	035906265B
		1985-87	034906265A
16V	1,9 liter	1987	034906265A
Digifant	1,8 liter	1987	030906265
Golf	1,8 liter	1985-87	035906265B
Digifant	1,8 liter	1988	030906265
Fox	1,8 liter	1987	034906265C
Cabriolet Convertible	1,7 liter; 1,8 liter	1980-88	035906265B
Dasher	1,7 liter	1980-81	035906265B
Quantum	1,7 liter	1982-84	035906265B
	1,8 liter	1985	035906265B
	2,2 liter	1983-87	035906265B
		1988	034906265C
Syncro	2,2 liter	1986-88	034906265A
Vanagon	CV	2,0 liter	1980-83
	DH	1,9 liter	1983-85
	MV	2,1 liter	1986
Syncro		2.1 liter	1986

Volkswagen

Oxygen Sensor

The oxygen sensor consists of a sintered zirconium dioxide tube doped with metal oxides and closed at one end. The inside and outside surfaces of the tube are loaded with platinum.

If the sensor is exposed to the exhaust gases, whereas its inner surface is connected to the free atmosphere, an electrical potential builds up as a function of the air/fuel ratio. The output signal depends on the oxygen partial pressure in the exhaust gas. Within the temperature range of 350 °C to 850 °C the voltage is between 825 and 1100 mV for $\alpha = 0.95$ and is between 175 and 220 mV for $\alpha = 1.05$ ($\alpha = 1.0$ means stoichiometric mixture). The voltage delivered by the oxygen sensor is compared in the electronic control unit with a reference voltage.

In order to shorten the time from engine start until reaching the operating temperature of the sensor a heating is installed inside the tube.

APPENDIX B

Database Description

OXYGEN SENSORS DATABASE

This database is designed for use with dBASE III PLUS. The disks enclosed with this package contain the files listed on the next page. In addition, the programs will create various working files. The working files created will be data and index files.

Hardware and software requirements to use this system are as follows;

100% IBM compatible personal computer,
Hard disk with at least 1.1 megabites available,
Licensed copy of dBASE III PLUS,
240 character per line printer, and
Text editing software capable of editing ASCII files

To use this database, create a subdirectory, copy the files into that subdirectory, enter dBASE, and change directories to the one with the files. You can now use any legal dBASE command with the files.

EXAMPLE

At the prompt C:® you type:

MD 02 (RETURN) This creates a subdirectory of C:® called
C:®02® .

CD®02 (RETURN) This changes directories to C:®02®

Place Disk #1 in drive A, then type

COPY A:*. * (RETURN) This will copy the contents of the disk in
A: to C:®02® . Repeat this step for
Disk #2.

Enter dBASE. This step will vary depending on how your system is set up. Once in dBASE, go to the command mode. If you are using dBASE with the menu simply hit the "ESC" key. Once in the command mode type:

!CD®02 (RETURN) This will change directories to C:®02® .

NOTE - You can use any legal DOS command
from within dBASE by preceding the command
with an exclamation (!) point.

You can now use the database. To run any program type "DO FILENAME"
where filename is the name of the program (.PRG) file you wish to run.

CAUTION #1 - These programs assume you have a 240 character per line printer attached to your computer and the printer is 'on line'.

CAUTION #2 - The main program files are too large for the dBASE text editor. You must use an alternative text editor that is capable of editing an

ASCII file if you wish to modify these programs. Examples of such editing software are EDLINE, KEDIT, or WORDSTAR. There are many other such software packages available.

DATA FILES

ENGINE.DBF This file contains engine family specific information for the manufacturers of interest for this project.

MODEL.DBF This file contains information about the models that use the engines in ENGINE.DBF

OEM_O2.DBF This file specific information about each OEM oxygen sensor part number identified in this study.

AM_O2.DBF This file contains information about the aftermarket oxygen sensors that can replace the OEM oxygen sensors in OEM_O2.DBF.

TABLE5A.DBF &
TABLE5B.DBF These files are used to store information created by TABLE_5.PRG. Each time TABLE_5.PRG is run the information in these two files is updated.

A detailed description of each data file, except TABLE5A.DBF and TABLE5B.DBF, is included latter in this documentation.

INDEX FILES

ENGINE.NDX This index file is used with ENGINE.DBF. It is indexed on the following expression:

STR(MFG_CODE,3,0)+STR(MODEL_YR,2,0)+ENGINE_FAM

MODEL.NDX This index file is used with MODEL.DBF. It is indexed on the following expression:

STR(MFG_CODE,3,0)+STR(MODEL_YR,2,0)+ENGINE_FAM+MODEL_NAME

O2.NDX This index file is used with OEM_O2.DBF. It is indexed on the the following expression:

OEM_NUMBER

OEM_O2.NDX This index file is also used with OEM_O2.DBF. It is indexed on the following expression:

STR(MFG_CODE,3,0)+OEM_NUMBER

AM_02.NDX This index file is used with AM_02.DBF. It is indexed on the following expression:

STR(MFG_CODE,3,0)+OEM_NUMBER+BRAND_NAME+AM_PART_NO

PROGRAM FILES

TABLE_1.PRG This program is used to print Table 1.

TBL1HEAD.PRG This program prints the headings for Table 1 at the top of each new page. It is called from TABLE_1.PRG.

PROGRAM FILES (continued)

TABLE_2.PRG This program is used to print Table 2.

TBL2HEAD.PRG This program prints the headings for Table 2 at the top of each new page. It is called from TABLE_2.PRG.

TABLE_3.PRG This program is used to print Table 3.

TBL3HEAD.PRG This program prints the headings for Table 3 at the top of each new page. It is called from TABLE_3.PRG.

TABLE_4.PRG This program is used to print Table 4. The heading information for this Table is printed within TABLE_4.PRG. There is no call program.

TABLE_5.PRG This program is used to print Tables 5a and 5b. It also writes information to data files which are used to produce bar graphs.

O2_SALES.PRG This program computes application weighted sales for each engine family in ENGINE.DBF. It divides engine family sales by the number of OEM oxygen sensors that can be applied to that engine family and places the resulting number in the field "O2_SALE".

A description of each main program file is included latter in this documentation. The main program files are TABLE_1.PRG, TABLE_2.PRG, TABLE_3.PRG, TABLE_4.PRG, and TABLE_5.PRG.

ENGINE.DBF

This file has one record for each combination of manufacturer code + model year + engine family code.

<u>FIELD</u>	<u>FIELD NAME</u>	<u>FIELD TYPE</u>	<u>DESCRIPTION</u>
1	MFG_CODE	NUMERIC	MANUFACTURER IDENTIFICATION CODE
		<u>CODE</u>	<u>MANUFACTURER</u>
		10	AMC/JEEP
		20	CHRYSLER CORP.
		30	FORD MOTOR CO.
		40	GENERAL MOTORS
		260	HONDA
		380	NISSAN
		490	MITSUBISHI
		560	MAZDA
		570	TOYOTA
		590	VOLKSWAGEN
2	MANUFACTUR	CHARACTER	NAME OF MANUFACTURER. SEE ABOVE
3	MODEL_YR	NUMERIC	MODEL YEAR OF ENGINE FAMILY
4	ENGINE_FAM	CHARACTER	MANUFACTURER'S ENGINE FAMILY CODE
5	TOTAL_SALE	NUMERIC	ENGINE FAMILY SALES
6	O2_SALE	NUMERIC	WEIGHTED ENGINE FAMILY SALES TO REFLECT MULTIPLE OXYGEN SENSOR PART NUMBERS THAT CAN BE APPLIED TO SAME ENGINE FAMILY
7	OEM_NUMBER	CHARACTER	OEM OXYGEN SENSOR PART NUMBER
8	OEM_2	CHARACTER	PART NUMBER OF SECOND OEM SENSOR THAT CAN BE APPLIED TO SAME ENGINE FAMILY
9	OEM_3	CHARACTER	PART NUMBER OF THIRD OEM SENSOR THAT CAN BE APPLIED TO SAME ENGINE FAMILY
10	OEM_4	CHARACTER	PART NUMBER OF FOURTH OEM SENSOR THAT CAN BE APPLIED TO SAME ENGINE FAMILY
11	FLEET	CHARACTER	VEHICLE FLEET THAT ENGINE FAMILY IS CERTIFIED FOR
12	TURBO	CHARACTER	Y/N CODE INDICATING TURBOCHARGER

13	ENGINE_DSC	CHARACTER	SPECIAL DESCRIPTION OF ENGINE FAMILY (HO, DOHC, 16 VALVE, ETC.)
18	VENTURIS	NUMERIC	NUMBER OF VENTURIS
19	CYLINDERS	NUMERIC	NUMBER OF CYLINDERS
20	CID	NUMERIC	CUBIC INCH DISPLACEMENT
21	LITERS	NUMERIC	DISPLACEMENT IN LITERS

MODEL.DBF

This file contains one record for each combination of manufacturer code + model year + engine family + model name.

<u>FIELD</u>	<u>FIELD NAME</u>	<u>FIELD TYPE</u>	<u>DESCRIPTION</u>
1	MFG_CODE	NUMERIC	MANUFACTURER IDENTIFICATION CODE
		<u>CODE</u>	<u>MANUFACTURER</u>
		10	AMC/JEEP
		20	CHRYSLER CORP.
		30	FORD MOTOR CO.
		40	GENERAL MOTORS
		260	HONDA
		380	NISSAN
		490	MITSUBISHI
		560	MAZDA
		570	TOYOTA
		590	VOLKSWAGON
2	MANUFACTUR	CHARACTER	NAME OF MANUFACTURER
3	ENGINE_FAM	CHARACTER	MANUFACTURER'S ENGINE FAMILY CODE
4	OEM_NUMBER	CHARACTER	OEM OXYGEN SENSOR PART NUMBER
5	OEM_2	CHARACTER	PART NUMBER OF SECOND OEM SENSOR THAT CAN BE APPLIED TO SAME ENGINE FAMILY
6	OEM_3	CHARACTER	PART NUMBER OF THIRD OEM SENSOR THAT CAN BE APPLIED TO SAME ENGINE FAMILY
7	OEM_4	CHARACTER	PART NUMBER OF FOURTH OEM SENSOR THAT CAN BE APPLIED TO SAME ENGINE FAMILY
8	MODEL_YR	NUMERIC	MODEL YEAR OF ENGINE FAMILY
9	MODEL_NAME	CHARACTER	NAME OF MODEL
10	BODY_STYLE	CHARACTER	BODY STYLE OF MODEL

OEM_O2.DBF

This file contains one record for each OEM oxygen sensor part number.

<u>FIELD</u>	<u>FIELD NAME</u>	<u>FIELD TYPE</u>	<u>DESCRIPTION</u>
1	MFG_CODE	NUMERIC	MANUFACTURER IDENTIFICATION CODE
		<u>CODE</u>	<u>MANUFACTURER</u>
		10	AMC/JEEP
		20	CHRYSLER CORP.
		30	FORD MOTOR CO.
		40	GENERAL MOTORS
		260	HONDA
		380	NISSAN
		490	MITSUBISHI
		560	MAZDA
		570	TOYOTA
		590	VOLKSWAGON
2	MANUFACTUR	CHARACTER	NAME OF MANUFACTURER
3	OEM_NUMBER	CHARACTER	OEM OXYGEN SENSOR PART NUMBER
4	OEM_TYPE	CHARACTER	OXYGEN SENSOR TYPE. HEATED OR NON-HEATED
5	CHANGE_INT	NUMERIC	CHANGE INTERVAL FOR OXYGEN SENSOR
6	CHANGEUNIT	CHARACTER	SPECIFIED UNITS FOR THE CHANGE INTERVAL
7	CON_TYPE	CHARACTER	CONNECTOR TYPE
8	NUM_WIRES	NUMERIC	NUMBER OF WIRES
9	WIRE_LENGTH	NUMERIC	LENGTH OF WIRES
10	WIRE_UNIT	CHARACTER	SPECIFIED UNITS OF WIRE LENGTH
11	RETAIL_CST	NUMERIC	MANUFACTURER SUGGESTED RETAIL PRICE
12	THRD_TYPE	CHARACTER	TYPE OF THREAD
13	THRD_CLASS	CHARACTER	THREAD CLASS OF FIT
14	THRD_LENGTH	NUMERIC	LENGTH OF THREAD
15	THRD_UNIT	CHARACTER	SPECIFIED UNITS OF THREAD LENGTH

- 16 THRD_GROUP NUMERIC THIS FIELD IS NO LONGER USED.
- 17 INSERT_DEP NUMERIC INSERTION DEPTH. DISTANCE FROM
BOTTOM OF THREADS TO TIP OF
OXYGEN SENSOR
- 18 INSERT_UNI CHARACTER SPECIFIED UNITS FOR INSERTION
DEPTH
- 19 TOTDEP_GRP NUMERIC SPECIAL FIELD USED FOR SORTING
DATA FOR TABLE 4. TOTAL DEPTH IS
THE THREAD LENGTH PLUS THE
INSERTION DEPTH. GROUP NUMBERS
ARE DETERMINED AND UPDATED EACH
TIME TABLE_4.PRG IS RUN.
- | <u>GROUP #</u> | <u>TOTAL DEPTH (mm)</u> |
|----------------|-------------------------|
| 0 | NOT SPECIFIED |
| 1 | 24 <= TD < 26 |
| 2 | 26 <= TD < 28 |
| 3 | 28 <= TD < 30 |
| 4 | 38 <= TD |
- 20 LEN_ABOVE NUMERIC LENGTH OF OXYGEN SENSOR ABOVE THE
THREADS
- 21 ABOVE_UNIT CHARACTER SPECIFIED UNITS FOR LENGTH OF
SENSOR ABOVE THE THREADS
- 22 SPLASH_CAT CHARACTER SPLASH PROTECTION CATEGORY
- 23 MATERIAL CHARACTER TYPE OF MATERIAL USED IN
CONSTRUCTION
- 24 OUTPUT CHARACTER OUTPUT RANGE (IN VOLTS) OF OXYGEN
SENSOR
- 25 SWITCH_PT NUMERIC AIR/FUEL RATIO AT WHICH OXYGEN
SENSOR RESPONDS

AM_02.DBF

This file contains one record for each combination of manufacturer code + engine family code + OEM oxygen sensor part number + aftermarket oxygen sensor part number.

<u>FIELD</u>	<u>FIELD NAME</u>	<u>FIELD TYPE</u>	<u>DESCRIPTION</u>
1	MFG_CODE	NUMERIC	MANUFACTURER IDENTIFICATION CODE
		<u>CODE</u>	<u>MANUFACTURER</u>
		10	AMC/JEEP
		20	CHRYSLER CORP.
		30	FORD MOTOR CO.
		40	GENERAL MOTORS
		260	HONDA
		380	NISSAN
		490	MITSUBISHI
		560	MAZDA
		570	TOYOTA
		590	VOLKSWAGON
2	ENGINE_FAM	CHARACTER	ENGINE FAMILY THAT AFTERMARKET SENSOR CAN BE APPLIED TO
3	OEM_NUMBER	CHARACTER	OEM OXYGEN SENSOR PART NUMBER
4	AM_PART_NO	CHARACTER	AFTERMARKET OXYGEN SENSOR PART NUMBER
5	BRAND_NAME	CHARACTER	DISTRIBUTOR OF AFTERMARKET SENSOR
6	RETAIL_CST	NUMERIC	AFTERMARKET MANUFACTURERS' SUGGESTED RETAIL PRICE

TABLE_1.PRG

This program prints oxygen sensor and model applications for each engine family considered in this study. Information about each oxygen sensor part number is also printed. The program uses the following data and index files.

<u>Data File</u>	<u>Index File</u>	<u>Index Expression</u>
OEM_O2.DBF	O2.NDX	OEM_NUMBER
MODEL.DBF	MODEL.NDX	STR(MFG_CODE,3,0)+STR(MODEL_YR,2,0) +ENGINE_FAM+MODEL_NAME
ENGINE.DBF	ENGINE.NDX	STR(MFG_CODE,3,0)+STR(MODEL_YR,2,0) +ENGINE_FAM

After the program has printed about 50 lines a page eject is necessary. Each time the page ejects, the heading information for the table must be printed. To do this the program calls another program named TBL1HEAD.PRG. This 'call' program is responsible for printing the line at the bottom of each page, printing footnotes, printing (and incrementing) page numbers, ejecting the page, and printing the heading at the top of the new page.

The following list shows the variables used in TABLE_1.PRG and their definitions or purpose.

<u>VARIABLE</u>	<u>DESCRIPTION</u>
PAGE	The current page number. Initial value is -1.
MULTIO2	A Y/N variable that is assigned a value of 'Y' when multiple part numbers can be applied to the same engine family.
MFG	Manufacturer code.
YR	Model year.
EFAM	Engine family code
MODNUM	Counts the number of models that use the current engine family.
MOD1 to MOD20	Array variables used to store each model name for latter printing.
TEMPVAR	Temporary variable.
EGS	OEM oxygen sensor part number.
EGS2	Part number of second OEM sensor that can be used with the current engine family.
EGS3	Part number of third OEM sensor that can be used with the current engine family.
EGS4	Part number of fourth OEM sensor that can be used with the current engine family.

TABLE_2.PRG

This program is ordered on, and creates a separate listing for, each combination of manufacturer and OEM oxygen sensor part number. It also prints aftermarket applications for that part number as well as the engine families and models that use the part number. The number of lines for each listing is determined by the program. If the listing is longer than 30 lines a condensed format is used. The program uses the following data and index files.

<u>Data File</u>	<u>Index File</u>	<u>Index Expression</u>
ENGINE.DBF	ENGINE.NDX	STR(MFG_CODE,3,0)+STR(MODEL_YR,2,0)+ENGINE_FAM
MODEL.DBF	MODEL.NDX	STR(MFG_CODE,3,0)+STR(MODEL_YR,2,0)+ENGINE_FAM +MODEL_NAME
AM_O2.DBF	AM_O2.NDX	STR(MFG_CODE,3,0)+OEM_NUMBER+BRAND_NAME +AM_PART_NO
OEM_O2.DBF	OEM_O2.NDX	STR(MFG_CODE,3,0)+OEM_NUMBER
T2_MOD.DBF	T2_MOD.NDX	STR(MFG_CODE,3,0)+OEM_NUMBER+MODEL_NAME

T2_MOD.DBF and T2_MOD.NDX are working files that are created by TABLE_2.PRG. The purpose of these files is to create a unique listing of model names that use a given oxygen sensor part number.

After the program has printed about 50 lines a page eject is necessary. Each time the page ejects, the heading information for the table must be printed. To do this the program calls another program named TBL2HEAD.PRG. This 'call' program is responsible for printing the line at the bottom of each page, printing footnotes, printing (and incrementing) page numbers, ejecting the page, and printing the heading at the top of the new page.

TABLE_2.PRG also calls a program named O2_SALES.PRG at the beginning of the program. O2_SALES.PRG computes the oxygen sensor weighted sales for each engine family by dividing the engine family sales by the number of oxygen sensors used with the engine family and placing the resulting number in the field "O2_SALE".

The following list shows the variables used in TABLE_2.PRG and their definitions or purpose.

<u>VARIABLE</u>	<u>DESCRIPTION</u>
PAGE	The current page number. Initial value is -1.
MULTIO2	A Y/N variable that is assigned a value of 'Y' when multiple part numbers can be applied to the same engine family.
MFG	Manufacturer code.
OEM	Part number of current OEM sensor.
COST	Manufacturers suggested retail price for the current OEM part number.
CHNGE	Change interval for the current OEM part number.

<u>VARIABLE</u>	<u>DESCRIPTION</u>
UNIT	The unit of measure the change interval was specified in.
OEMSALES	Used to store the total sales sum for the current OEM part number.
BN1 to BN11	Array variables used to store the brand names of the aftermarket sensors that can replace the current OEM part number.
AM1 to AM11	Array variables used to store the part numbers of the aftermarket sensors that can replace the current OEM part number.
CST1 to CST11	Array variables used to store the retail prices of the aftermarket sensors that can replace the current OEM part number.
APPNUM	This variable is used to count the number of aftermarket applications for the current OEM part number.
TEMPNAME	Temporary variable.
TEMPNUM	Temporary variable.
TEMPCOST	Temporary variable.
APPCNT	Used in counting the number of records in MODEL.DBF. The value of APPCNT determines long or short format.
MODNUM	Used to keep track of how many lines have printed for the current OEM part number.
MAN	Manufacturer name.
EFAM	The current engine family code.
MY	Model year.
NEWFAM	Y/N variable that switches when a new engine family starts printing.
INC	Increment, used to increment the printing row.

TABLE_3.PRG

This program creates a separate listing for each oxygen sensor part number and orders them by descending manufacturer suggested retail price. The models, model years, and aftermarket applications are also listed for each part number. The program determines the number of lines needed for each listing. If the listing is 60 lines or more a condensed format is used. The program uses the following data and index files.

<u>Data File</u>	<u>Index File</u>	<u>Index Expression</u>
ENGINE.DBF	none	
T3_MOD.DBF	T3_MOD1.NDX	STR(MFG_CODE,3,0)+OEM_NUMBER +STR(MODEL_YR,2,0)+MODEL_NAME
	T3_MOD2.NDX	OEM_NUMBER+MODEL_NAME
AM_O2.DBF	AM_O2.NDX	STR(MFG_CODE,3,0)+OEM_NUMBER+BRAND_NAME +AM_PART_NO
T3_OEM.DBF	none	

The data files T3_MOD.DBF and T3_OEM.DBF and the index files T3_MOD1.NDX and T3_MOD2.NDX are all working files that are created by TABLE_3.PRG. T3_OEM.DBF contains OEM oxygen sensor data that is sorted by decreasing retail price. T3_MOD.DBF is used with T3_MOD1.NDX when the normal printing format is used and T3_MOD.DBF is used with T3_MOD2.NDX when the condensed format is needed.

After the program has printed about 50 lines a page eject is necessary. Each time the page ejects, the heading information for the table must be printed. To do this the program calls another program named TBL3HEAD.PRG. This 'call' program is responsible for printing the line at the bottom of each page, printing footnotes, printing (and incrementing) page numbers, ejecting the page, and printing the heading at the top of the new page.

TABLE_3.PRG also calls a program named O2_SALES.PRG at the beginning of the program. O2_SALES.PRG computes the oxygen sensor weighted sales for each engine family by dividing the engine family sales by the number of oxygen sensors used with the engine family and placing the resulting number in the field "O2_SALE".

The following list shows the variables used in TABLE_3.PRG and their definitions or purpose.

<u>VARIABLE</u>	<u>DESCRIPTION</u>
PAGE	The current page number. Initial value is -1.
FTNOTE3	A Y/N variable. Footnote (c) is printed when FTNOTE3=Y.
MFG	Manufacturer code.
OEM	Part number of current OEM sensor.
COST	Manufacturers suggested retail price for the current OEM part number.

<u>VARIABLE</u>	<u>DESCRIPTION</u>
CHNGE	Change interval for the current OEM part number.
UNIT	The unit of measure the change interval was specified in.
OEMSALES	Used to store the total sales sum for the current OEM part number.
BN1 to BN11	Array variables used to store the brand names of the aftermarket sensors that can replace the current OEM part number.
AM1 to AM11	Array variables used to store the part numbers of the aftermarket sensors that can replace the current OEM part number.
CST1 to CST11	Array variables used to store the retail prices of the aftermarket sensors that can replace the current OEM part number.
APPNUM	This variable is used to count the number of aftermarket applications for the current OEM part number.
TEMPNAME	Temporary variable.
TEMPNUM	Temporary variable.
TEPCOST	Temporary variable.
MODCNT	Used in counting the number of records in MODEL.DBF. The value of MODCNT determines long or short format.
MODNUM	Used to count the number of lines that have been printed for the current OEM part number.
MAN	Manufacturer name.
MY	Model year.
INC	Increment, used to increment the printing row.
YRMAX	Used to store the value of the last year that the current OEM part number was used.
YRMIN	Used to store the value of the first year that the current OEM part number was used.

TABLE_4.PRG

This program groups oxygen sensors together based on certain constructional and dimensional characteristics. For each group, a table is printed that lists each OEM part number in the group, various characteristics of that part number, and aftermarket replacement sensors for that part number. The program uses the following data and index files.

<u>Data File</u>	<u>Index File</u>	<u>Index Expression</u>
T4_OEM1.DBF	none	
AM_O2.DBF	AM_O2.NDX	STR(MFG_CODE,3,0)+OEM_NUMBER+BRAND_NAME +AM_PART_NO

The data file T4_OEM1.DBF is a working file that is created by TABLE_4.PRG. This data file contains OEM oxygen sensor information that has been sorted into groups. The sort criteria and their order of priority are material (descending order), number of wires (descending order), and length from top of threads to bottom of sensor (descending order).

Unlike the previous programs, this program does not call any outside programs. All page ejects, table headings, etc. are printed from within the program.

The following list shows the variables used in TABLE_4.PRG and their definitions or purpose.

<u>VARIABLE</u>	<u>DESCRIPTION</u>
TABNUM	Used to keep track of the subtable number.
NUM	Number of wires.
TGRP	Thread length group number.
TOTGRP	Thread length + insertion depth group number.
MAT	Material (zirconia or titania)
MFG	Manufacturer code.
OEM	Part number of current OEM sensor.
CST	Manufacturers suggested retail price for the current OEM part number.
CNG_INT	Change interval for the current OEM part number.
CNG_UNIT	The unit of measure the change interval was specified in.
MAN	Manufacturer name.
BN1 to BN11	Array variables used to store the brand names of the aftermarket sensors that can replace the current OEM part number.
AM1 to AM11	Array variables used to store the part numbers of the aftermarket sensors that can replace the current OEM part number.
CST1 to CST11	Array variables used to store the retail prices of the aftermarket sensors that can replace the current OEM part number.

<u>VARIABLE</u>	<u>DESCRIPTION</u>
APPNUM	This variable is used to count the number of aftermarket applications for the current OEM part number.
TEMPNAME	Temporary variable.
TEMPNUM	Temporary variable.
TEMPCOST	Temporary variable.
NEWGROUP	A Y/N variable. When NEWGROUP=Y the current OEM oxygen sensor part number specific information is printed.
LINELIST	Used to keep track of the number of lines in the current listing.
INC	Increment, used to increment the printing row.

TABLE_5.PRG

This program creates two tables (5a and 5b) and two data files which are used with Microsoft Chart. The program determines the number of vehicles sold that have replacement OEM oxygen sensor retail prices that would exceed certain repair cost limits. The following data and index files are used with this program.

<u>Data File</u>	<u>Index File</u>	<u>Index Expression</u>
OEM_02.DBF	O2.NDX	OEM_NUMBER
ENGINE.DBF	none	
TABLE5A.DBF	none	
TABLE5B.DBF	none	

TABLE_5.PRG writes all the summed sales data to TABLE5A.DBF and it writes all the percentage data to TABLE5B.DBF. The only purpose of these two data files is to store the information created by TABLE_5.PRG. The contents of these data files are then copied in a delimited format to TABLE5A.TXT and TABLE5B.TXT respectively. TABLE5A.TXT and TABLE5B.TXT are the files used by Microsoft Chart to create Figures 5a and 5b.

All table headings, footnotes, page breaks, etc. are printed within TABLE_5.PRG, there are no call programs. The following list shows the variables used in TABLE_5.PRG and their definitions or purpose.

<u>VARIABLE</u>	<u>DESCRIPTION</u>
TSALE	Total sales of all vehicles included in this study.
TSALE_86	Total sales of all 1986 vehicles included in this study.
TSALE_85	Total sales of all 1985 vehicles included in this study.
TSALE_84	Total sales of all 1984 vehicles included in this study.
TSALE_83	Total sales of all 1983 vehicles included in this study.
TSALE_82	Total sales of all 1982 vehicles included in this study.
TSALE_81	Total sales of all 1981 vehicles included in this study.
TC50	Total sales of all vehicles with an OEM oxygen sensor that costs more than \$50.00.
TC50_86	Total sales of all 1986 vehicles with an OEM oxygen sensor that costs more than \$50.00.
TC50_85	Total sales of all 1985 vehicles with an OEM oxygen sensor that costs more than \$50.00.
TC50_84	Total sales of all 1984 vehicles with an OEM oxygen sensor that costs more than \$50.00.
TC50_83	Total sales of all 1983 vehicles with an OEM oxygen sensor that costs more than \$50.00.
TC50_82	Total sales of all 1982 vehicles with an OEM oxygen sensor that costs more than \$50.00.
TC50_81	Total sales of all 1981 vehicles with an OEM oxygen sensor that costs more than \$50.00.

<u>VARIABLE</u>	<u>DESCRIPTION</u>
TC75	Total sales of all vehicles with an OEM oxygen sensor that costs more than \$75.00.
TC75_86	Total sales of all 1986 vehicles with an OEM oxygen sensor that costs more than \$75.00.
TC75_85	Total sales of all 1985 vehicles with an OEM oxygen sensor that costs more than \$75.00.
TC75_84	Total sales of all 1984 vehicles with an OEM oxygen sensor that costs more than \$75.00.
TC75_83	Total sales of all 1983 vehicles with an OEM oxygen sensor that costs more than \$75.00.
TC75_82	Total sales of all 1982 vehicles with an OEM oxygen sensor that costs more than \$75.00.
TC75_81	Total sales of all 1981 vehicles with an OEM oxygen sensor that costs more than \$75.00.
TC100	Total sales of all vehicles with an OEM oxygen sensor that costs more than \$100.00.
TC100_86	Total sales of all 1986 vehicles with an OEM oxygen sensor that costs more than \$100.00.
TC100_85	Total sales of all 1985 vehicles with an OEM oxygen sensor that costs more than \$100.00.
TC100_84	Total sales of all 1984 vehicles with an OEM oxygen sensor that costs more than \$100.00.
TC100_83	Total sales of all 1983 vehicles with an OEM oxygen sensor that costs more than \$100.00.
TC100_82	Total sales of all 1982 vehicles with an OEM oxygen sensor that costs more than \$100.00.
TC100_81	Total sales of all 1981 vehicles with an OEM oxygen sensor that costs more than \$100.00.
TC150	Total sales of all vehicles with an OEM oxygen sensor that costs more than \$150.00.
TC150_86	Total sales of all 1986 vehicles with an OEM oxygen sensor that costs more than \$150.00.
TC150_85	Total sales of all 1985 vehicles with an OEM oxygen sensor that costs more than \$150.00.
TC150_84	Total sales of all 1984 vehicles with an OEM oxygen sensor that costs more than \$150.00.
TC150_83	Total sales of all 1983 vehicles with an OEM oxygen sensor that costs more than \$150.00.
TC150_82	Total sales of all 1982 vehicles with an OEM oxygen sensor that costs more than \$150.00.
TC150_81	Total sales of all 1981 vehicles with an OEM oxygen sensor that costs more than \$150.00.
TC200	Total sales of all vehicles with an OEM oxygen sensor that costs more than \$200.00.
TC200_86	Total sales of all 1986 vehicles with an OEM oxygen sensor that costs more than \$200.00.
TC200_85	Total sales of all 1985 vehicles with an OEM oxygen sensor that costs more than \$200.00.
TC200_84	Total sales of all 1984 vehicles with an OEM oxygen sensor that costs more than \$200.00.

<u>VARIABLE</u>	<u>DESCRIPTION</u>
TC200_83	Total sales of all 1983 vehicles with an OEM oxygen sensor that costs more than \$200.00.
TC200_82	Total sales of all 1982 vehicles with an OEM oxygen sensor that costs more than \$200.00.
TC200_81	Total sales of all 1981 vehicles with an OEM oxygen sensor that costs more than \$200.00.

APPENDIX C

Data Tables

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
AMC/JEEP	81	BAM258V2HP7 / 4 2L / (CONFIDENTIAL)	CONCORD CONCORD WAGON SPIRIT	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	82	CAM258T2HEB4 / 4 2L / (CONFIDENTIAL)	CHEROKEE/WAGNER CJ-5/CJ-7 4WD EAGLE 4WD EAGLE:KMBK SX/4 J10 P/U 4WD SCRAMBLER PICKUP	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6- 95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	82	CAM258V2HE50 / 4 2L / (CONFIDENTIAL)	CONCORD CONCORD WAGON SPIRIT	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6- 95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	83	DAM1 4V5FQD5 / 1 4L / (CONFIDENTIAL)	ALLIANCE	PART NUMBER - 7700708955 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$140.00 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 6.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 58.000 mm LENGTH OF WIRE(S) - 85.0 mm
AMC/JEEP	83	DAM1 4V5FKD6 / 1 4L / (CONFIDENTIAL)	ALLIANCE	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6-.95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	83	DAM1 4V5FLD8 / 1 4L / (CONFIDENTIAL)	ALLIANCE	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6- 95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	83	DAM258T2HEBX / 4.2L / (CONFIDENTIAL)	CHEROKEE/WAGONE CJ-5/7 4WD EAGLE 4WD EAGLE SX/4 4WD J-10 PICKUP 4WD	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6- 95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
SCRAMBLER PICKU						
AMC/JEEP	83	DAM258V2HDAG / 4.2L / (CONFIDENTIAL)	CONCORD CONCORD WAGON SPIRIT	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	84	EAM1.4V5FFA1 / 1.4L / (CONFIDENTIAL)	ALLIANCE/ENCORE	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6- 95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	84	EAM1.4V5FJD5 / 1.4L / (CONFIDENTIAL)	ALLIANCE/ENCORE	PART NUMBER - 7700708955 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$140.00 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 6.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 58.000 mm LENGTH OF WIRE(S) - 85.0 mm
AMC/JEEP	84	EAM150T1HEA5 / 2.5L / (CONFIDENTIAL)	CHEROKEE/WAGONE CJ-7 4WD DJ PD VEHICLE 2 EAGLE 4WD SCRAMBLER PICKU	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	84	EAM258T2HEAX / 4.2L / (CONFIDENTIAL)	CJ-7 4WD EAGLE 4WD FJ-8C P.O. VEHIC GRAND WAGONEER J-10 PICKUP 4WD SCRAMBLER PICKU	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6- 95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	85	EAM1.4V5FFA1 / 1.4L / (CONFIDENTIAL)	ALLIANCE/ENCORE	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6- 95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	85	FAM1.7V5FGA0 / 1.7L / (CONFIDENTIAL)	ALLIANCE/ENCORE	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6- 95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm

(cont:rued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
AMC/JEEP	85	FAM173T2F4C3 / 2.8L / (CONFIDENTIAL)	XJ XJ-2WD	PART NUMBER - 8953000886 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 45.00 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 225.0 mm
AMC/JEEP	85	FAM2 5T1HEA5 / 2.5L / (CONFIDENTIAL)	CJ-7 SCRAMBLER XJ XJ-2WD	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	86	GAM1 4V5FFA3 / 1.4L / (CONFIDENTIAL)	CJ-7 SCRAMBLER XJ XJ-2WD	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	86	GAM1.7V5FGA1 / 1.7L / (CONFIDENTIAL)	CJ-7 SCRAMBLER XJ XJ-2WD	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	86	GAM2 5T1HEA6 / 2.5L / (CONFIDENTIAL)	CJ-7 SCRAMBLER XJ XJ-2WD	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
AMC/JEEP	86	GAM4 2T2HEA8 / 4.2L / (CONFIDENTIAL)	CJ-7 SCRAMBLER XJ XJ-2WD	PART NUMBER - 8933002455 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.70 CONNECTOR TYPE - BLADE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6- 95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	80	OCB-105-2-CLP / 1.7L / (CONFIDENTIAL)	De TAMASO HORIZON HORIZON TC3 OMNI OMNI Q24	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6- 95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			TURISMO			
CHRYSLER CORP.	80	CCB-225-1-ARB / 3 7L / (CONFIDENTIAL)	ASPEN DIPLOMAT LeBARON VOLARE	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	80	CCB-318-4-AUP / 5 2L / (CONFIDENTIAL)	ASPEN CHRYSLER 300 CORDOBA DIPLOMAT Le BARON MIRADA NEW YORKER NEWPORT TOWN & COUNTRY VOLARE	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	81	BCR1 7V2HJ1 / 1 7L / (CONFIDENTIAL)	024/DE TOMASO HORIZON OMNI TC3/TURISMO	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	81	BCR2 2V2H45 / 2 2L / (CONFIDENTIAL)	024/DE TOMASO ARIES ARIES WAGON HORIZON OMNI RELIANT RELIANT WAGON TC3/TURISMO	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	81	BCR2 2V2HJ8 / 2 2L / (CONFIDENTIAL)	024/DE TOMASO ARIES ARIES WAGON HORIZON OMNI RELIANT RELIANT WAGON	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			TC3/TURISMO			
CHRYSLER CORP	81	BCR5 2V2HJ4 / 5.2L / (CONFIDENTIAL)	CORDOBA DIPLOMAT DIPLOMAT WAGON GRAN FLURY LEBARON LEBARON WAGON MIRADA ST REGIS	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP	81	BCR5 2V4HC1 / 5.2L / (CONFIDENTIAL)	CORDOBA DIPLOMAT DIPLOMAT WAGON GRAN FLURY LEBARON LEBARON WAGON MIRADA ST REGIS	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP	81	BCR5 2V9FAX / 5.2L / (CONFIDENTIAL)	IMPERIAL	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP	82	CCR1.7V2HBF7 / 1.7L / (CONFIDENTIAL)	Q24 HORIZON OMNI TC3/TURISMO	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP	82	CCR2 2V2HFL1 / 2.2L / (CONFIDENTIAL)	Q24 400 ARIES ARIES WAGON HORIZON LEBARON OMNI RELIANT RELIANT WAGON	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			TC3/TURISMO TOWN & COUNTRY			
CHRYSLER CORP.	82	CCR2 2V2HNLX / 2.2L / (CONFIDENTIAL)	CR24 HORIZON OMNI TC3 TURISMO	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	82	CCRS 2V2HAL4 / 5.2L / (CONFIDENTIAL)	CORDOBA DIPLOMAT GRAN FURY MIRADA SPECIAL	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	82	CCRS 2V4HAL1 / 5.2L / (CONFIDENTIAL)	CORDOBA DIPLOMAT FURY MIRADA NEW YORKER SPECIAL	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	83	DCR1 6V2HCB0 / 1.6L / (CONFIDENTIAL)	CHARGER HORIZON OMNI TURISMO	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	83	DCR1.7V2HCN9 / 1.7L / (CONFIDENTIAL)	CHARGER HORIZON OMNI TURISMO	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	83	DCR2 2V2HAC3 / 2.2L / (CONFIDENTIAL)	400 400 CONVERTIBLE 600 ARIES ARIES WAGON CHARGER E CLASS/NEW YOR	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
CHRYSLER CORP	83	DCR2 2V2HCL7 / 2 2L / (CONFIDENTIAL)	HORIZON	PART NUMBER - 4301375	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
			LEBARON			
			LEBARON CONVERT	SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0- 2 TO .6-.95	THREAD LENGTH - 9.000 mm
			OMNI	CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
			RELIANT	RETAIL PRICE - \$ 41.50	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 68.000 mm
			RELIANT WAGON	CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100.0 mm
			TOWN & COUNTRY			
			TURISMO			
CHRYSLER CORP.	83	DCR3.7V1HAS3 / 3 7L / (CONFIDENTIAL)	400	PART NUMBER - 4301375	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
			400 CONVERTIBLE			
			600	SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0-.2 TO .6- .95	THREAD LENGTH - 9.000 mm
			ARIES	CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
			ARIES WAGON	RETAIL PRICE - \$ 41.50	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 68.000 mm
			CHARGER	CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100.0 mm
			E CLASS/NEW YOR			
			HORIZON			
			LEBARON			
			LEBARON CONVERT			
			OMNI			
			RELIANT			
			RELIANT WAGON			
			TOWN & COUNTRY			
			TURISMO			
CHRYSLER CORP.	83	DCR5.7V1HAS3 / 3 7L / (CONFIDENTIAL)	CORDOBA	PART NUMBER - 4301375	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
			DIPLOMAT			
			FIFTH AVENUE ED	SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0-.2 TO .6- .95	THREAD LENGTH - 9.000 mm
			GRAN FURY	CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
			MIRADA	RETAIL PRICE - \$ 41.50	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 68.000 mm
				CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	83	DCR5 2T2HBNX / 5 2L / (CONFIDENTIAL)	AW150 RAMCHGR	PART NUMBER - 4301375	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
			B150/250 WAGON			
			B150/B250 VAN 2	SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0- 2 TO 6-.95	THREAD LENGTH - 9.000 mm
			B350 VAN 2WD	CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
			B350 WAGON 2WD	RETAIL PRICE - \$ 41.50	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 68.000 mm
			D150 P/U 2WD	CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100.0 mm
			D250 P/U 2WD			
			PB150/250 VYGR			
			PB350 VYGR 2WD			
			W150 P/U 4WD			

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			W250 P/U 4WD			
CHRYSLER CORP.	83	DCRS 2V2HAP9 / 5.2L / (CONFIDENTIAL)	CORDOBA DIPLOMAT FIFTH AVENUE ED GRAN FURY MIRADA	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	83	DCRS 2V2HX8 / 5.2L / (CONFIDENTIAL)	CORDOBA DIPLOMAT FIFTH AVENUE ED GRAN FURY MIRADA	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	83	DCRS 2V4HAT2 / 5.2L / (CONFIDENTIAL)	DIPLOMAT SALON GRAN FURY	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	84	EDR1 6V2HDF7 / 1.6L / (CONFIDENTIAL)	CHARGER HORIZON OMNI TURISMO	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	84	EDR2 2T2HCL9 / 2.2L / (CONFIDENTIAL)	CARAVAN 2WD RAM VAN 2WD RAMPAGE 2WD VOYAGER 2WD	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6-.95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	84	EDR2 2V2HAC4 (b)/ 2.2L / (CONFIDENTIAL)	600 600 CONVERTIBLE ARIES ARIES WAGON CHARGER HORIZON LEBARON LEBARON CONVERT OMNI RELIANT RELIANT WAGON	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET PART NUMBER - 4301346 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.98 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6-.95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1 SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14 70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
CHRYSLER CORP.	84	ECR2 2V2HCL8 / 2 2L / (CONFIDENTIAL)	600 600 CONVERTIBLE ARIES ARTES WAGON CHARGER HORIZON LEBARON LEBARON CONVERT OMNI RELIANT RELIANT WAGON TOWN & COUNTRY TURISMO	PART NUMBER - 4301375	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0-.2 TO .6-.95	THREAD LENGTH - 9.000 mm
				CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$ 41 50	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 68.000 mm
				CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100.0 mm
				PART NUMBER - 4301346	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0- 2 TO .6- .95	THREAD LENGTH - 9.000 mm
				CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$ 37 98	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 68.000 mm
				CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100.0 mm
				PART NUMBER - 4301375	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0-.2 TO 6- 95	THREAD LENGTH - 9.000 mm
CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 20.000 mm				
RETAIL PRICE - \$ 41 50	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 68.000 mm				
CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100 0 mm				
CHRYSLER CORP.	84	ECR2 2V5HCF1 (b)/ 2 2L / (CONFIDENTIAL)	600 600 CONVERTIBLE DAYTONA E CLASS/NEW YOR LASER/DAYTONA LEBARON LEBARON CONVERT	PART NUMBER - 4301375	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0- 2 TO .6- .95	THREAD LENGTH - 9.000 mm
				CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$ 41 50	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 68.000 mm
				CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100 0 mm
				PART NUMBER - 4301346	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0- 2 TO .6- .95	THREAD LENGTH - 9.000 mm
				CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$ 37 98	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 68.000 mm
				CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100 0 mm
				PART NUMBER - 4301375	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0- 2 TO .6- .95	THREAD LENGTH - 9.000 mm
CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 20.000 mm				
RETAIL PRICE - \$ 41 50	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 68.000 mm				
CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100.0 mm				

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA			
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS	
CHRYSLER CORP.	84	ECR2 6V2FAJ9 / 2.6L / (CONFIDENTIAL)	LEBARON	PART NUMBER - MD073036 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$155.00 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 6.000 mm SENSOR LENGTH BELOW THREADS - 22.000 mm SENSOR LENGTH ABOVE THREADS - 73.000 mm LENGTH OF WIRE(S) - 63.0 mm	
			LEBARON CONVERTIBLE				
CHRYSLER CORP.	84	ECR3 7T1HEJ1 (b) / 3.7L / (CONFIDENTIAL)	D100 2WD	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm	
			D150 2WD				
CHRYSLER CORP.	84	ECR5 2T2HBN0 (b) / 5.2L / (CONFIDENTIAL)	D150 RAMCHGR	PART NUMBER - 4301346 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.98 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14 70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm	
			AW150 RAMCHGR				
CHRYSLER CORP.	84	ECR5 2T2HEM5 (b) / 5.2L / (CONFIDENTIAL)	B150/B250 WAGON	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm	
			B150/B250 VAN 2				
CHRYSLER CORP.	84	ECR5 2T2HEM5 (b) / 5.2L / (CONFIDENTIAL)	B350 VAN 2WD	PART NUMBER - 4301346 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.98 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14 70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm	
			B350 WAGON 2WD				
CHRYSLER CORP.	84	ECR5 2T2HEM5 (b) / 5.2L / (CONFIDENTIAL)	D150 P/U 2WD	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm	
			D250 P/U 2WD				
CHRYSLER CORP.	84	ECR5 2T2HEM5 (b) / 5.2L / (CONFIDENTIAL)	W150 P/U 4WD	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm	
			A150 RAMCHGR				
CHRYSLER CORP.	84	ECR5 2T2HEM5 (b) / 5.2L / (CONFIDENTIAL)	B150/B250 VAN	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm	
			B150/B250 WGN				
CHRYSLER CORP.	84	ECR5 2T2HEM5 (b) / 5.2L / (CONFIDENTIAL)	B350 VAN 2WD	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm	
			B350 VAN 2WD				

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
CHRYSLER CORP.	84	EDR5 2V2HAPX (b)/ 5.2L / (CONFIDENTIAL)	B350 WAGON 2WD D100/D150 P/U D250 P/U 2WD W100/W150 P/U W250 P/U 4WD	PART NUMBER - 4301346 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.98 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
			DIPLOMAT GRAN FURY NEWPORT/FIFTH A	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	84	EDR5 2V2HX9 (b)/ 5.2L / (CONFIDENTIAL)	DIPLOMAT GRAN FURY NEWPORT/FIFTH A	PART NUMBER - 4301346 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.98 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
			DIPLOMAT GRAN FURY NEWPORT/FIFTH A	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	84	EDR5 2V4HAT3 (b)/ 5.2L / (CONFIDENTIAL)	DIPLOMAT GRAN FURY	PART NUMBER - 4301346 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.98 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
			DIPLOMAT GRAN FURY	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
				PART NUMBER - 4301346 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.98 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
CHRYSLER CORP.	85	FCR1 6VZDF8 (b) / 1.6L / (CONFIDENTIAL)	CHARGER HORIZON OMNI TURISMO	PART NUMBER - 4301375	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0- 2 TO .6-.95	THREAD LENGTH - 9.000 mm
				CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$ 41.50	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 68.000 mm
				CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100.0 mm
				PART NUMBER - 4301346	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0- 2 TO .6-.95	THREAD LENGTH - 9.000 mm
				CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$ 37.98	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 68.000 mm
				CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	85	FCR2 2VZDH5 / 2.2L / (CONFIDENTIAL)	ARIES ARIES WAGON CHARGER HORIZON OMNI RELIANT RELIANT WAGON TURISMO	PART NUMBER - 4301375	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0- 2 TO 6- 95	THREAD LENGTH - 9.000 mm
				CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$ 41.50	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 68.000 mm
				CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	85	FCR2 2VZDJ9 / 2.2L / (CONFIDENTIAL)	ARIES ARIES WAGON CHARGER HORIZON OMNI RELIANT RELIANT WAGON TURISMO	PART NUMBER - 4301375	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0- 2 TO 6- 95	THREAD LENGTH - 9.000 mm
				CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$ 41.50	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 68.000 mm
				CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	85	FCR2 2V5FAA9 / 2.2L TURBO / (CONFIDENTIAL)	600 600 CONVERTIBLE CARAVELLE CHARGER DAYTONA LANCER LASER LEBARON LEBARON CONVERT LEBARON GTS	PART NUMBER - 4301346	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0-.2 TO .6- 95	THREAD LENGTH - 9.000 mm
				CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$ 37.98	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 68.000 mm
				CONNECTOR TYPE - BULLET	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 100.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
CHRYSLER CORP.	85	FCR2 2V5FABX / 2.2L TURBO / (CONFIDENTIAL)	NEW YORKER	PART NUMBER - 4301346 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.98 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
			OMNI			
			TOWN & COUNTRY			
			600			
			600 CVT			
			CARAVELLE			
			CHARGER			
			DAYTONA			
			LANCER			
			LASER			
			LEBARON			
			LEBARON CVT			
			LEBARON GTS			
NEW YORKER						
OMNI						
TOWN & COUNTRY						
CHRYSLER CORP.	85	FCR2 2V5HCF2 / 2.2L / (CONFIDENTIAL)	600	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
			600 CONVERTIBLE			
			ARIES			
			ARIES WAGON			
			CARAVELLE			
			DAYTONA			
			LANCER			
			LASER			
			LEBARON			
			LEBARON CONVERT			
			LEBARON GTS			
			RELIANT			
			RELIANT WAGON			
CHRYSLER CORP.	85	FCR2 2V5HDL1 / 2.2L / (CONFIDENTIAL)	600	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
			600 CONVERTIBLE			
			ARIES			
			ARIES WAGON			
			CARAVELLE			
			DAYTONA			
			LANCER			
			LASER			
			LEBARON			

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA			
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS	
CHRYSLER CORP	85	FCR2 6V2FAJX / 2.6L / (CONFIDENTIAL)	LEBARON CONVERT LEBARON GTS RELIANT RELIANT WAGON	PART NUMBER - M0073036 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$155 00 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 6.000 mm SENSOR LENGTH BELOW THREADS - 22.000 mm SENSOR LENGTH ABOVE THREADS - 73.000 mm LENGTH OF WIRE(S) - 63.0 mm	
			600 600 CONVERTIBLE ARIES ARIES WAGON CARAVELLE EXEC SEDAN/LIMO LEBARON LEBARON CONVERT NEW YORKER RELIANT RELIANT WAGON TOWN & COUNTRY	CHRYSLER CORP.	85	FCR2 6V2FAP5 / 2.6L / (CONFIDENTIAL)	600 600 CONVERTIBLE ARIES ARIES WAGON CARAVELLE EXEC SEDAN/LIMO LEBARON LEBARON CONVERT NEW YORKER RELIANT RELIANT WAGON TOWN & COUNTRY
CHRYSLER CORP	85	FCR5 2T2HBN1 / 5.2L / (CONFIDENTIAL)	AD150 RAMCHGR AW150 RAMCHGR B150/250 WAGON B150/B250 VAN 2 B350 VAN 2WD B350 WAGON 2WD D100/D150 P/U 2 D250 P/U 2WD W100/W150 P/U 4				PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET
CHRYSLER CORP.	85	FCR5 2T2HEM6 / 5.2L / (CONFIDENTIAL)	AD150 RAMCHGR AW150 RAMCHGR B150/250 WAGON B150/B250 VAN 2 B350 VAN 2WD	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6- .95 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm	

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			B350 WAGON 2WD D100/D150 P/U 2 D250 P/U 2WD W100/W150 P/U 4 W250 P/U 4WD			
CHRYSLER CORP	85	FCR5 2V2HAP0 / 5 2L / (CONFIDENTIAL)	DIPLOMAT GRAN FURY NEWPORT/FIFTH A	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP	85	FCR5 2V2H0X / 5 2L / (CONFIDENTIAL)	DIPLOMAT GRAN FURY NEWPORT/FIFTH A	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	85	FCR5 2V4HAT4 / 5 2L / (CONFIDENTIAL)	DIPLOMAT GRAN FURY	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	86	GCR1 6V2HDH0 / 1 6L / (CONFIDENTIAL)	CHARGER HORIZON OMNI TURISMO	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	86	GCR2 2V2HDH6 / 2 2L / (CONFIDENTIAL)	CHARGER HORIZON OMNI TURISMO	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	86	GCR2 2V2HDJX / 2 2L / (CONFIDENTIAL)	CHARGER HORIZON OMNI TURISMO	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm

(continued)

- (a) Number of vehicles sold with given engine family.
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
CHRYSLER CORP.	86	GCR2 2V5FAAX / 2.2L / (CONFIDENTIAL)	600 600 CONVERTIBLE CARAVELLE CHARGER DAYTONA LANCER LASER/DAYTONA LEBARON LEBARON CONVERT LEBARON GTS LIMOUSINE NEW YORKER OMNI TOWN & COUNTRY	PART NUMBER - 4301346 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.98 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO .6-.95 SWITCH POINT - 14.70 SPASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	86	GCR2 2V5FAB0 / 2.2L / (CONFIDENTIAL)	600 600 CONVERTIBLE CARAVELLE CHARGER DAYTONA LANCER LASER/DAYTONA LEBARON LEBARON CONVERT LEBARON GTS LIMOUSINE NEW YORKER OMNI TOWN & COUNTRY	PART NUMBER - 4301346 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.98 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0- 2 TO 6-.95 SWITCH POINT - 14.70 SPASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	86	GCR2 5V5FAM9 / 2.5L / (CONFIDENTIAL)	600 600 CONVERTIBLE ARIES ARIES WAGON CARAVELLE DAYTONA LANCER LASER/DAYTONA LEBARON LEBARON CONVERT	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA			
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS	
CHRYSLER CORP.	86	GCR2 5VSHCFX / 2 ZL / (CONFIDENTIAL)	LEBARON GTS NEW YORKER RELIANT RELIANT WAGON TOWN & COUNTRY	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm	
			600 600 CONVERTIBLE ARIES ARIES WAGON CARAVELLE DAYTONA LANCER LASER/DAYTONA LEBARON LEBARON CONVERT LEBARON GTS NEW YORKER RELIANT RELIANT WAGON TOWN & COUNTRY	CHRYSLER CORP	86	GCR5 2T2BN2 / 5 ZL / (CONFIDENTIAL)	AD150 RAMCHARGE AW150 RAMCHARGE B150/B250 VAN 2 B150/B250 WAGON B350 VAN 2WD B350 WAGON 2WD D100/D150 PICKUP D250 PICKUP 2WD W100/W150 PICKUP
AD150 RAMCHARGE AW150 RAMCHARGE B150/B250 VAN B150/B250 WGN B350 VAN 2WD B350 WGN 2WD D100/D150 P/U D250 P/U 2WD W100/W150 4WD	CHRYSLER CORP	86	GCR5 2T2EM7 / 5 ZL / (CONFIDENTIAL)				PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET

(continued)

- (a) Number of vehicles sold with given engine family.
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
CHRYSLER CORP	86	GC85.2V2HAP1 / 5 2L / (CONFIDENTIAL)	DIPLOMAT GRAN FURY NEWPORT/FIFTH A	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
CHRYSLER CORP.	86	GC85.2V2H0K0 / 5 2L / (CONFIDENTIAL)	DIPLOMAT GRAN FURY NEWPORT/FIFTH A	PART NUMBER - 4301375 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 41.50 CONNECTOR TYPE - BULLET	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0-.2 TO 6-.95 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 9.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 100.0 mm
FORD MOTOR CO	81	2.3AX / 2.3L / (CONFIDENTIAL)	CAPRI COUGAR FAIRMONT FAIRMONT WAGON GRANADA MUSTANG ZEPHYR ZEPHYR WAGON	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO	81	4 2/5 0A0C / 4 2L / (CONFIDENTIAL)	CAPRI COUGAR FAIRMONT FAIRMONT WAGON GRANADA LTD MARQUIS MUSTANG THUNDERBIRD XR7 ZEPHYR ZEPHYR WAGON	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO	81	4 2/5 0G0F / 4 2L / (CONFIDENTIAL)	LTD LTD WAGON MARQUIS MARQUIS WAGON	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	81	4 2/5 0NP / 5 0L / (CONFIDENTIAL)	BRONCO 4WD E100/150 2WD (C) E100/150 2WD (P) E250 2WD (CARGO) F100/F150 P/U 2	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
FORD MOTOR CO.	81	5.000C / 5.0L / (CONFIDENTIAL)	F150 P/U 4WD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
			F250 P/U 2WD			
FORD MOTOR CO.	81	5.000F / 5.0L / (CONFIDENTIAL)	CONT. MARK VI LTD WAGON	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
			MARQUIS WAGON TOWN CAR			
FORD MOTOR CO.	81	5.8WNG / 5.8L / (CONFIDENTIAL)	BRONCO 4WD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
			E100/150 2WD (C) E100/150 2WD (P) E250 2WD (CARGO) F100/F150 P/U 2 F150 P/U 4WD F250 P/U 2WD F250 P/U 4WD			
FORD MOTOR CO.	82	CFM2 3V2H4C4 / 2.3L / (CONFIDENTIAL)	CAPRI	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
			FAIRMONT FUTURA GRANADA MUSTANG ZEPHYR			
FORD MOTOR CO.	82	CFM3 8V2H8C0 / 3.8L / (CONFIDENTIAL)	CONTINENTAL	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
			COUGAR COUGAR WAGON GRANADA GRANADA WAGON THUNDERBIRD XR7			
FORD MOTOR CO.	82	CFM4 9T1HCF5 / 4.9L / (CONFIDENTIAL)	E100/150 2WD (C)	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
			E100/150 2WD (P) E250 2WD (CARGO) F100/F150 P/U 2 F250 P/U 2WD			

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
FORD MOTOR CO	82	CFM5 0T2HCC4 / 5 OL / (CONFIDENTIAL)	BRONCO 4WD E100/150 2WD (C E100/150 2WD (P E250 2WD (CARGO F100/F150 P/U 2 F150 P/U 4WD F250 P/U 2WD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	82	CFM5 0V5HEFO / 5 OL / (CONFIDENTIAL)	MARK VI TOWN CAR	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO	82	CFM5 8T2HBP9 / 5 8L / (CONFIDENTIAL)	BRONCO 4WD E100/150 2WD (C E100/150 2WD (P E250 2WD (CARGO F100/F150 P/U 2 F150 P/U 4WD F250 P/U 2WD F250 P/U 4WD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO	83	DFM1 6V5HMF3 / 1 6L / (CONFIDENTIAL)	ESCORT EXP LN7 LYNX LYNX WAGON	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	83	DFM2 3T1HKG8 / 2 3L / (CONFIDENTIAL)	RANGER PICKUP 2 RANGER PICKUP C	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	83	DFM2 3V1HFC2 / 2 3L / (CONFIDENTIAL)	CAPRI FAIRMONT FUTURA LTD MARQUIS MUSTANG	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			ZEPHYR			
FORD MOTOR CO.	83	DFM2.3V1HPF5 / 2 3L / (CONFIDENTIAL)	CAPRI FAIRMONT FUTURA LTD MARQUIS MUSTANG ZEPHYR	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49 62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	83	DFM2.3V5FDGK / 2 3L TURBO / (CONFIDENTIAL)	CAPRI MUSTANG THUNDERBIRD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49 62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	83	DFM4 9T1HCG7 / 4 9L / (CONFIDENTIAL)	BRONCO 4WD E100/E150 ECONO E150 CLUB WAGON E250 ECONOLINE F100/F150 PICKUP F150 PICKUP 4WD F250 PICKUP 2WD F250 PICKUP 4WD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	83	DFM5 0T2HC99 / 5 0L / (CONFIDENTIAL)	E100/E150 ECONO E150 CLUB WAGON E250 ECONOLINE F100/F150 PICKUP F250 PICKUP 2WD F250 PICKUP CC	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49 62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	83	DFM5 0V5HLC5 / 5.0L / (CONFIDENTIAL)	CONTINENTAL COUGAR CROWN VICTORIA GRAND MARQUIS GRAND MARQUIS W LDT CROWN VICTO MARK VI THUNDERBIRD TOWN CAR	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49 62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	83	DFM5 8T2HBFX / 5 8L / (CONFIDENTIAL)	BRONCO 4WD F100/F150 PICKUP F150 PICKUP 4WD F250 PICKUP 2WD F250 PICKUP 4WD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49 62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
FORD MOTOR CO	84	EFM1 6V5HMF4 / 1 GL / (CONFIDENTIAL)	ESCORT ESCORT WAGON LYNX	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	84	EFM2 3T1HK69 / 2.3L / (CONFIDENTIAL)	RANGER P/U CC RANGER PICKUP 2 RANGER PICKUP 4	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO	84	EFM2 3V1HCK5 / 2.3L / (CONFIDENTIAL)	TEMPO TOPAZ	PART NUMBER - E63Z 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 21.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 280.0 mm
FORD MOTOR CO	84	EFM2 3V1HECX / 2.3L / (CONFIDENTIAL)	TEMPO TOPAZ	PART NUMBER - E63Z 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 21.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 280.0 mm
FORD MOTOR CO.	84	EFM2 3V1HPK2 / 2.3L / (CONFIDENTIAL)	CAPRI LTD MARQUIS MUSTANG	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	84	EFM2 3V1HRFX / 2.3L / (CONFIDENTIAL)	TEMPO TOPAZ	PART NUMBER - E63Z 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 21.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 280.0 mm
FORD MOTOR CO	84	EFM2 3V5FGT2 / 2.3L TURBO / (CONFIDENTIAL)	CAPRI COUGAR MUSTANG THUNDERBIRD	PART NUMBER - E6TZ 9F472-A SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 6.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 155.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
FORD MOTOR CO.	84	EFM2 8T2H0G1 / 2.8L / (CONFIDENTIAL)	BRONCO II 4WD RANGER P/U CC RANGER PICKUP 2 RANGER PICKUP 4	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	84	EFM2 8T2H0G1 / 2.8L / (CONFIDENTIAL)	BRONCO II 4WD RANGER PICKUP 2 RANGER PICKUP 4	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	84	EFM3 8V5H4C4 / 3.8L / (CONFIDENTIAL)	CAPRI COUGAR LTD LTD WAGON MARQUIS MARQUIS WAGON MUSTANG THUNDERBIRD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	84	EFM3 8V5H4F7 / 3.8L / (CONFIDENTIAL)	CAPRI COUGAR LTD LTD WAGON MARQUIS MARQUIS WAGON MUSTANG THUNDERBIRD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	84	EFM4 9T1HG65 / 4.9L / (CONFIDENTIAL)	BRONCO 4WD E150 CLUB WAGON E150 ECONOLINE E250 ECONOLINE F150 PICKUP 2WD F150 PICKUP 4WD F250 PICKUP 2WD F250 PICKUP 4WD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 21.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 280.0 mm
FORD MOTOR CO.	84	EFM5 0V5H8C4 / 5.0L / (CONFIDENTIAL)	CAPRI CONTINENTAL COUGAR CROWN VICTORIA GRAND MARQUIS	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA			
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS	
FORD MOTOR CO.	84	EFM5 0VSHBF7 / 5.0L / (CONFIDENTIAL)	GRAND MARQUIS W LTD CROWN VICTO LTD MUSTANG THUNDERBIRD TOWN CAR	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm	
			CAPRI CONTINENTAL COUGAR CROWN VICTORIA GRAND MARQUIS GRAND MARQUIS W LTD CROWN VICTO LTD MARK VII MUSTANG THUNDERBIRD TOWN CAR	FORD MOTOR CO.	84	EFM5 8T2HG60 / 5.0L / (CONFIDENTIAL)	BRONCO 4WD E150 CLUB WAGON E150 ECONOLINE E250 ECONOLINE F150 PICKUP 2WD F150 PICKUP 4WD F250 P/U CC 2W F250 PICKUP 2WD F250 PICKUP 4WD
ESCORT ESCORT WAGON	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm				
FORD MOTOR CO.	85	EFM1 6VSHMF4 / 1.6L / (CONFIDENTIAL)	RANGER PICKUP 2 RANGER PICKUP 4 RANGER PICKUP C	PART NUMBER - E6TZ 9F472-A SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 6.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 155.0 mm	

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
FORD MOTOR CO.	85	FFM2.3T5FFG6 / 2.3L / (CONFIDENTIAL)	RANGER PICKUP 2 RANGER PICKUP 4 RANGER PICKUP C	PART NUMBER - E6TZ 9F472-A SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 6.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 155.0 mm
FORD MOTOR CO.	85	FFM2.3V1HAK2 / 2.3L / (CONFIDENTIAL)	CAPRI LTD MARQUIS MUSTANG	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	85	FFM2.3V5FGK2 (b) / 2.3L TURBO / (CONFIDENTIAL)	COUGAR MUSTANG THUNDERBIRD XR4Ti	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
				PART NUMBER - E6TZ 9F472-A SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 6.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 155.0 mm
FORD MOTOR CO.	85	FFM2.3V5HCF4 / 2.3L / (CONFIDENTIAL)	TEMPO TOPAZ	PART NUMBER - E63Z 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 21.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 280.0 mm
FORD MOTOR CO.	85	FFM2.3V5HCH6 / 2.3L / (CONFIDENTIAL)	TEMPO TOPAZ	PART NUMBER - E63Z 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 21.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 280.0 mm
FORD MOTOR CO.	85	FFM2.8T2HKG0 / 2.8L / (CONFIDENTIAL)	BRONCO II 4WD RANGER PICKUP 2 RANGER PICKUP 4 RANGER PICKUP C	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
FORD MOTOR CO.	85	FFM3 8V5H1C5 / 3.8L / (CONFIDENTIAL)	CAPRI COUGAR LTD LTD WAGON MARQUIS MARQUIS WAGON MUSTANG THUNDERBIRD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	85	FFM3 8V5H1F8 / 3.8L / (CONFIDENTIAL)	CAPRI COUGAR LTD LTD WAGON MARQUIS MARQUIS WAGON MUSTANG THUNDERBIRD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	85	FFM4 9T1H6G6 / 4.9L / (CONFIDENTIAL)	BRONCO 4WD E150 E150 CLUB WAGON E250 ECONOLINE F150 F150 PICKUP 4WD F250 PICKUP 2WD F250 PICKUP 4WD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 21.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 280.0 mm
FORD MOTOR CO.	85	FFM5 0T5H6G8 / 5.0L / (CONFIDENTIAL)	BRONCO 4WD F150 F150 PICKUP 4WD F250 PICKUP 2WD F250 PICKUP 4WD	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm
FORD MOTOR CO.	85	FFM5 0V5H6C5 / 5.0L / (CONFIDENTIAL)	CAPRI CONTINENTAL COUGAR CROWN VICTORIA GRAND MARQUIS GRAND MARQUIS W LTD CROWN VICTO	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA			
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS	
FORD MOTOR CO.	85	FFM5 OV5BFB / 5.0L / (CONFIDENTIAL)	LTD MARK VII MUSTANG THUNDERBIRD TOWN CAR	PART NUMBER - E6ZZ 9F472-A SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 49.62 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 74.000 mm LENGTH OF WIRE(S) - 66.0 mm	
			CAPRI CONTINENTAL COUGAR CROWN VICTORIA GRAND MARQUIS GRAND MARQUIS W LTD CROWN VICTO LTD MARK VII MUSTANG THUNDERBIRD TOWN CAR	FORD MOTOR CO	85	FFM5 8T2HGG1 / 5.0L / (CONFIDENTIAL)	BRONCO 4WD E150 E150 CLUB WAGON E250 ECONOLINE F150 F150 PICKUP 4WD F250 PICKUP 2WD F250 PICKUP 4WD
GENERAL MOTORS	81	11C2NDM / 2.8L / (CONFIDENTIAL)	CITATION OMEGA PHOENIX SKYLARK				PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE
GENERAL MOTORS	81	11D2AC / 4.0L / (CONFIDENTIAL)	CABALLERO P/U 2 CAMARO EL CAMINO P/U 2 IMPALA/CAPRICE MALIBU MALIBU WAGON MONTE CARLO	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm	

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	81	11E2AC / 5 OL / (CONFIDENTIAL)	CABALLERO P/U 2 CAMARO EL CAMINO P/U 2 IMPALA/CAPRICE MALIBU MALIBU WAGON MONTE CARLO	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	11L4AC / 5 OL / (CONFIDENTIAL)	CAMARO CORVETTE FIREBIRD IMPALA/CAPRICE MALIBU MALIBU WAGON	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	11L4ACJ / 5 OL / (CONFIDENTIAL)	CABALLERO P/U 2 CAMARO CORVETTE EL CAMINO P/U 2 FIREBIRD IMPALA/CAPRICE MALIBU MALIBU WAGON MONTE CARLO	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	11WZTNQZ / 1 6L / (CONFIDENTIAL)	CHEVETTE T1000	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	12H2AD / 4 9L / (CONFIDENTIAL)	CATALINA/BONNE. CENTURY CENTURY WAGON FIREBIRD GRAND PRIX LEMANS LEMANS SAFARI W REGAL	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	12S4AB / 4 9L / (CONFIDENTIAL)	FIREBIRD	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	81	12S4BD / 4.9L TURBO / (CONFIDENTIAL)	FIREBIRD	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	12X2NN / 2.5L / (CONFIDENTIAL)	CITATION OMEGA PHOENIX SKYLARK	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	13H2AE / 4.3L / (CONFIDENTIAL)	CUTLASS CUTLASS SUPREM CUTLASS WAGON DELTA 88	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	13Y4AR / 5.0L / (CONFIDENTIAL)	CATALINA/BONNE CATALINA/BONNE CUSTOM CRUISER CUTLASS WAGON DELTA 88 ELECTRA LESABRE LESABRE/ELECTRA NINETY-EIGHT RIVIERA TORONADO	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	13Y4ARJ / 5.0L / (CONFIDENTIAL)	CATALINA/BONNE CATALINA/BONNE CUSTOM CRUISER CUTLASS WAGON DELTA 88 ELECTRA LESABRE LESABRE/ELECTRA NINETY-EIGHT	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	14E2TM / 3.8L / (CONFIDENTIAL)	CABALLERO P/U 2 CAMARO CATALINA/BONNE CENTURY CENTURY WAGON	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			CUTLASS CUTLASS SUPREM/ CUTLASS WAGON DELTA 88 EL CAMINO P/U 2 FIREBIRD GRAND PRIX IMPALA/CAPRICE LEMANS LEMANS SAFARI W LESABRE MALIBU MALIBU WAGON MONTE CARLO REGAL			
GENERAL MOTORS	81	14E4ND / 3.8L TURBO / (CONFIDENTIAL)	MONTE CARLO REGAL RIVIERA	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	14F4AE / 4.1L / (CONFIDENTIAL)	DEVILLE/BROUGH ELDORADO ELECTRA LESABRE NINETY-EIGHT RIVIERA SEVILLE TORONADO	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	14F4AEJ / 4.1L / (CONFIDENTIAL)	DEVILLE/BROUGH ELDORADO ELECTRA LESABRE NINETY-EIGHT RIVIERA SEVILLE TORONADO	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	16T5ADB / 6.0L / (CONFIDENTIAL)	DEVILLE/BROUGH ELDORADO SEVILLE	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	81	16T5ADB / 6 OL / (CONFIDENTIAL)	ELDORADO SEVILLE	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	81	16T5ARB / 6 OL / (CONFIDENTIAL)	DEVILLE/BROUGHAM LIMOUSINE	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	82	C1G1 8V2NEAX / 1 8L / (CONFIDENTIAL)	CHEVETTE T1000	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C1G1 8V2NNA0 / 1 8L / (CONFIDENTIAL)	CAVALIER CAVALIER WAGON CIMARRON FIRENZA J2000 J2000 WAGON SKYHAWK	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C1G2 8T2TRAD / 2 8L / (CONFIDENTIAL)	S10 P/U 2WD S15 P/U 2WD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C1G2 8V2NNA8 / 2 8L / (CONFIDENTIAL)	6000 CAMARO CELEBRITY CITATION FIREBIRD OMEGA PHENIX SKYLARK	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

(a) Number of vehicles sold with given engine family

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TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	82	C1G3 8V2ACAO / 3.8L / (CONFIDENTIAL)	CABALLERO P/U 2 EL CAMINO P/U 2	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C1G3 8V2TMA8 / 3.8L / (CONFIDENTIAL)	IMPALA/CAPRICE MALIBU MALIBU WAGON MONTE CARLO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C1G4 4V2ACAG / 4.0L / (CONFIDENTIAL)	CABALLERO P/U 2 EL CAMINO P/U 2 IMPALA/CAPRICE MALIBU MALIBU WAGON MONTE CARLO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C1G5.7V4CA7 / 5.0L / (CONFIDENTIAL)	CABALLERO P/U 2 CAMARO EL CAMINO P/U 2 FIREBIRD IMPALA/CAPRICE MALIBU WAGON	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C1G5 7V5NEM2 / 5.0L / (CONFIDENTIAL)	CAMARO CORVETTE FIREBIRD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C1G5 7V4ACA1 / 5.0L / (CONFIDENTIAL)	CABALLERO P/U 2 CAMARO EL CAMINO P/U 2 FIREBIRD IMPALA/CAPRICE MALIBU MALIBU WAGON MONTE CARLO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	82	C1G5 7W5NEM7 / 5 7L / (CONFIDENTIAL)	CAMARO CORVETTE FIREBIRD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C2G1 8V5TDG9 / 1 8L / (CONFIDENTIAL)	FIRENZA J2000 J2000 WAGON SKYHAWK	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C2G2 5V5TPG5 / 2 5L / (CONFIDENTIAL)	6000 CAMARO CELEBRITY CENTURY CITATION OUTLASS CIERA FIREBIRD OMEGA PHOENIX SKYLARK	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C3G4 3V2AEA2 / 4 3L / (CONFIDENTIAL)	OUTLASS CRUISER OUTLASS SUPREME DELTA 88	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C3G5 0V4AR4B / 5 0L / (CONFIDENTIAL)	CUSTOM CRUISER OUTLASS CRUISER OUTLASS SUPREME DELTA 88 ELECTRA LESABRE LESABRE/ELECTRA NINETY-EIGHT RIVIERA TORONADO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C3G5 0V4ARA2 / 5 0L / (CONFIDENTIAL)	CUSTOM CRUISER OUTLASS CRUISER OUTLASS SUPREME DELTA 88 ELECTRA	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

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VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			LESABRE LESABRE/ELECTRA NINETY-EIGHT RIVIERA TORONADO			
GENERAL MOTORS	82	C4G3.0V2NEA9 / 3.0L / (CONFIDENTIAL)	CENTURY OUTLASS CIERA	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C4G3.8V2TMA5 / 3.8L / (CONFIDENTIAL)	BONNEVILLE MODE CABALLERO P/U 2 OUTLASS CRUISER OUTLASS SUPREME DELTA 88 EL CAMINO P/U 2 GRAND PRIX IMPALA/CAPRICE LESABRE MALIBU MALIBU WAGON MONTE CARLO REGAL REGAL ESTATE WA	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C4G4.1V4AEAB / 4.1L / (CONFIDENTIAL)	BONNEVILLE MODE DEVILLE/BROUGHAM ELDORADO ELECTRA GRAND PRIX LESABRE NINETY-EIGHT REGAL REGAL ESTATE WA RIVIERA SEVILLE TORONADO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	82	C4G4.1W4AEAZ / 4.1L / (CONFIDENTIAL)	BONNEVILLE MODE DEVILLE/BROUGHAM ELDORADO ELECTRA GRAND PRIX	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

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VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			LESABRE NINETY-EIGHT REGAL REGAL ESTATE WA RIVIERA SEVILLE TORONADO			
GENERAL MOTORS	82	CGG4 1V5AGA3 / 4 1L / (CONFIDENTIAL)	DEVILLE/BROUGH ELDORADO SEVILLE	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36 71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 55 000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	83	C4G4 1V4AEAB / 4 1L / (CONFIDENTIAL)	ELECTRA LESABRE NINETY-EIGHT REGAL REGAL ESTATE WA RIVERIA CONVERT RIVIERA TORONADO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	83	C4G4 1W4AE2 / 4 1L / (CONFIDENTIAL)	ELECTRA LESABRE NINETY-EIGHT REGAL REGAL ESTATE WA RIVERIA CONVERT RIVIERA TORONADO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230 0 mm
GENERAL MOTORS	83	D1G1 6V2NEAD / 1.6L / (CONFIDENTIAL)	1000 CHEVETTE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230 0 mm
GENERAL MOTORS	83	D1G1 6W2NEAS / 1 6L / (CONFIDENTIAL)	1000 CHEVETTE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	83	D1G2 0V5KAJ4 / 2.0L / (CONFIDENTIAL)	2000 2000 WAGON CAVALIER CAVALIER CONVERTIBLE CAVALIER WAGON CIMARRON FIRENZA FIRENZA CRUISER SKYHAWK SKYHAWK WAGON	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 1.8mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	83	D1G2 0M5KAJ9 / 2.0L / (CONFIDENTIAL)	2000 2000 WAGON CAVALIER CAVALIER CONVERTIBLE CAVALIER WAGON CIMARRON FIRENZA FIRENZA CRUISER SKYHAWK SKYHAWK WAGON	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 1.8mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	83	D1G2 8T2TRAL / 2.8L / (CONFIDENTIAL)	S10 BLAZER 2WD S10 CAB CHASSIS S10 PICKUP 2WD S15 CAB CHASSIS S15 JIMMY 2WD S15 PICKUP 2WD T10 BLAZER 4WD T10 PICKUP 4WD T15 JIMMY 4WD T15 PICKUP 4WD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 1.8mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	83	D1G2 8V2NNA9 / 2.8L / (CONFIDENTIAL)	6000 CAMARO CELEBRITY CITATION FIREBIRD OMEGA PHOENIX	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 1.8mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

- (a) Number of vehicles sold with given engine family.
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			SKYLARK			
GENERAL MOTORS	83	D1G2 8M2NA3 / 2.8L / (CONFIDENTIAL)	6000 CAMARO CELEBRITY CITATION FIREBIRD OMEGA PHOENIX SKYLARK	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	83	D1G3 8V2ND44 / 3.8L / (CONFIDENTIAL)	CABALLERO PICKUP EL CAMINO PICKUP IMPALA/CAPRICE MALIBU MALIBU WAGON MONTE CARLO PARISIENNE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	83	D1G5 0M4NEA9 / 5.0L / (CONFIDENTIAL)	BONNEVILLE BONNEVILLE WAGON CAMARO CAPRICE WAGON FIREBIRD GRAND PRIX IMPALA/CAPRICE MALIBU MALIBU WAGON MONTE CARLO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	83	D1G5.7T4TYA3 / 5.0L / (CONFIDENTIAL)	C10 PICKUP 2WD C10 SUBURBAN 2W C15 PICKUP 2WD C15 SUBURBAN 2W C20 PICKUP 2WD C25 PICKUP 2WD G10/G20 SPORTVA G10/G20 VAN 2WD G15/G25 RALLY 2 G15/G25 VANDURA G30 SPORTVAN 2W	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	83	D1G5 7V4ND4D / 5.0L / (CONFIDENTIAL)	G35 RALLY 2WD K10 BLAZER 4WD K10 PICKUP 4WD K10 SUBURBAN 4W K15 JIMMY 4WD K15 PICKUP 4WD K15 SUBURBAN	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
			BONNEVILLE BONNEVILLE WAGO CABALLERO PICKU CAMARO CAPRICE WAGON EL CAMINO PICKU FIREBIRD GRAND PRIX IMPALA/CAPRICE MALIBU MALIBU WAGON MONTE CARLO PARISIENNE PARISIENNE WAGO			
GENERAL MOTORS	83	D1G5 7V5N6M3 / 5.0L / (CONFIDENTIAL)	CAMARO FIREBIRD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	83	D2G1 8V5TDGK / 1.8L / (CONFIDENTIAL)	2000 2000 CONVERTIBL 2000 WAGON FIRENZA FIRENZA CRUISER SKYHAWK SKYHAWK WAGON	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	83	D2G2 5V5TPG6 / 2.5L / (CONFIDENTIAL)	6000 CAMARO CELEBRITY CENTURY CITATION	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(cont'd)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	83	D3G5 0V4ARA9 / 5 OL / (CONFIDENTIAL)	CUTLASS CIERA FIREBIRD OMEGA PHENIX SKYLARK	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
			CUSTOM CRUISER CUTLASS CRUISER CUTLASS SUPREME DELTA 88 ELECTRA LESABRE LESABRE/ELECTRA NINETY-EIGHT RIVIERA CONVERT RIVIERA TORONADO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	83	D3G5 0M4ARA3 / 5 OL / (CONFIDENTIAL)	CUSTOM CRUISER CUTLASS CRUISER CUTLASS SUPREME DELTA 88 ELECTRA LESABRE LESABRE/ELECTRA NINETY-EIGHT RIVIERA CONVERT RIVIERA TORONADO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	83	D4G3 0M2NEA4 / 3 OL / (CONFIDENTIAL)	CENTURY CUTLASS CIERA	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	83	D4G3 8V2NEA3 / 3 OL / (CONFIDENTIAL)	BONNEVILLE BONNEVILLE WAGO CENTURY CUTLASS CIERA CUTLASS CRUISER	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA			
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS	
GENERAL MOTORS	83	D4G3 8M2TMD / 3 8L / (CONFIDENTIAL)	CUTLASS SUPREME DELTA 88 GRAND PRIX LESABRE REGAL REGAL ESTATE WA	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 5000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm	
			BONNEVILLE BONNEVILLE WAGON CABALLERO PICKU CUTLASS CRUISER CUTLASS SUPREME DELTA 88 EL CAMINO PICKU GRAND PRIX IMPALA/CAPRICE LESABRE MALIBU MALIBU WAGON MONTE CARLO REGAL REGAL ESTATE WA	GENERAL MOTORS	83	D6G4 1V5GAA / 4 1L / (CONFIDENTIAL)	DEVILLE/BROUGHAM ELDORADO SEVILLE
DEVILLE/BROUGHAM ELDORADO SEVILLE	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 5000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm				
GENERAL MOTORS	84	D1G5 7V5N8B / 5 7L / (CONFIDENTIAL)	CORVETTE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 5000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm	
GENERAL MOTORS	84	D1G5 7V5N8B / 5 7L / (CONFIDENTIAL)	CORVETTE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 5000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm	

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	84	E1G1.6V2NEA1 / 1.6L / (CONFIDENTIAL)	1000 CHEVETTE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	84	E1G1.6M2NEA6 / 1.6L / (CONFIDENTIAL)	1000 CHEVETTE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	84	E1G2.0V5XAJ5 / 2.0L / (CONFIDENTIAL)	2000 SUNBIRD 2000 SUNBIRD WA CAVALIER CAVALIER CONVERTIBLE CAVALIER WAGON CIMARRON FIRENZA FIRENZA CRUISER SKYHAWK SKYHAWK WAGON	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	84	E1G2.0M5XAJX / 2.0L / (CONFIDENTIAL)	2000 SUNBIRD 2000 SUNBIRD WA CAVALIER CAVALIER CONVERTIBLE CAVALIER WAGON CIMARRON FIRENZA FIRENZA CRUISER SKYHAWK SKYHAWK WAGON	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	84	E1G2.8T2TRA2 / 2.8L / (CONFIDENTIAL)	S10 BLAZER 2WD S10 CAB CHASSIS S10 PICKUP 2WD S15 CAB CHASSIS S15 JIMMY 2WD S15 PICKUP 2WD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	84	E1G2 8V2N1AX / 2.8L / (CONFIDENTIAL)	T10 BLAZER 4WD T10 PICKUP 4WD T15 JIMMY 4WD T15 PICKUP 4WD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
			6000 6000 WAGON CAMARO CELEBRITY CELEBRITY WAGON CITATION II FIREBIRD OMEGA PHOENIX SKYLARK	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	84	E1G2 8W2N1A4 / 2.8L / (CONFIDENTIAL)	6000 6000 WAGON CAMARO CELEBRITY CELEBRITY WAGON CITATION II FIREBIRD OMEGA PHOENIX SKYLARK	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
			CABALLERO PICKUP EL CAMINO PICKUP IMPALA/CAPRICE MONTE CARLO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	84	E1G3 8V2N2A5 / 3.8L / (CONFIDENTIAL)	BONNEVILLE CABALLERO PICKUP CAMARO CAPRICE WAGON EL CAMINO PICKUP FIREBIRD GRAND PRIX IMPALA/CAPRICE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA								
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS						
GENERAL MOTORS	84	E1G5 7T4TYA4 / 5 OL / (CONFIDENTIAL)	MONTE CARLO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm						
			PARISIENNE									
			PARISIENNE WAGO									
			C10 PICKUP 2WD									
			C10 SUBURBAN 2W									
			C15 PICKUP 2WD									
			C15 SUBURBAN 2W									
			C20 PICKUP 2WD									
			C25 PICKUP 2WD									
			G10/G20 SPORTVA									
			G10/G20 VAN 2WD									
			G15/G25 RALLY 2									
			G15/G25 VANDURA									
G30 SPORTVAN 2W												
G35 RALLY 2WD												
K10 BLAZER 4WD												
K10 PICKUP 4WD												
K10 SUBURBAN 4W												
K15 JIMMY 4WD												
K15 PICKUP 4WD												
K15 SUBURBAN												
GENERAL MOTORS	84	E1G5.7V4NEA3 / 5 OL / (CONFIDENTIAL)	BONNEVILLE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA , VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm						
			CABALLERO PICKU									
			CAMARO									
			CAPRICE WAGON									
			EL CAMINO PICKU									
			FIREBIRD									
			GRAND PRIX									
			IMPALA/CAPRICE									
			MONTE CARLO									
			PARISIENNE									
			PARISIENNE WAGO									
			GENERAL MOTORS				84	E2G1 8V5TDG0 / 1 BL / (CONFIDENTIAL)	2000 SUNBIRD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
									2000 SUNBIRD CD			
2000 SUNBIRD WA												
FIRENZA												
FIRENZA CRUISER												
SKYHAWK												

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			SKYHAWK WAGON			
GENERAL MOTORS	84	E2G1 8V9TAWK / 1.8L TURBO / (CONFIDENTIAL)	2000 SUNBIRD 2000 SUNBIRD CO SKYHAWK	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	84	E2G2 5V5TPG7 / 2.5L / (CONFIDENTIAL)	6000 6000 WAGON CAMARO CELEBRITY CELEBRITY WAGON CENTURY CENTURY ESTATE CITATION II CUTLASS CIERA CUTLASS CRUISER FIERO FIERBIRD OMEGA PHOENIX SKYLARK	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	84	E3G5.0V4NBMD / 5.0L / (CONFIDENTIAL)	RIVIERA RIVIERA CONVERT TORONADO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	84	E3G5.0V4NLAX / 5.0L / (CONFIDENTIAL)	CUSTOM CRUISER CUTLASS SUPREME DELTA 88 ELECTRA (RWD) ELECTRA ESTATE LESABRE NINETY-EIGHT	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	84	E3G5.0V4NBA2 / 5.0L / (CONFIDENTIAL)	CUSTOM CRUISER CUTLASS SUPREME DELTA 88 ELECTRA (RWD) ELECTRA ESTATE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	84	E4G3 8V2NEY0 / 3.0L / (CONFIDENTIAL)	LESABRE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
			NINETY-EIGHT			
			RIVIERA			
			RIVIERA CONVERT TORONADO			
GENERAL MOTORS	84	E4G3 8V8XEB2 / 3.8L / (CONFIDENTIAL)	BONNEVILLE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
			CENTURY			
			CENTURY ESTATE			
			CUTLASS CIERA CUTLASS CRUISER CUTLASS SUPREME DELTA 88 GRAND PRIX LESABRE PARISIENNE REGAL			
GENERAL MOTORS	84	E4G3 8V8XEB6 / 3.8L TURBO / (CONFIDENTIAL)	CENTURY	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
			CENTURY ESTATE			
			CUTLASS CIERA			
			CUTLASS CRUISER			
GENERAL MOTORS	84	E4G3 8V8XEB6 / 3.8L TURBO / (CONFIDENTIAL)	REGAL	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
			RIVIERA			
			RIVIERA CONVERT			
GENERAL MOTORS	84	E4G3 8W2NEY5 / 3.0L / (CONFIDENTIAL)	BONNEVILLE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
			CABALLERO PICKU			
			CENTURY			
			CENTURY ESTATE CUTLASS CIERA CUTLASS CRUISER CUTLASS SUPREME DELTA 88 EL CAMINO PICKU GRAND PRIX IMPALA/CAPRICE			

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			LESABRE MONTE CARLO PARISIENNE REGAL			
GENERAL MOTORS	84	E4G4.1V4NEY7 / 4.1L / (CONFIDENTIAL)	ELECTRA (RWD) LESABRE REGAL RIVIERA RIVIERA CONVERT TORONADO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	84	EGG4.1V5NKA7 / 4.1L / (CONFIDENTIAL)	BROUGHAM/DEVILL ELDORADO ELDORADO CONVER SEVILLE	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	84	EGG4.1W5AGAX / 4.1L / (CONFIDENTIAL)	BROUGHAM/DEVILL ELDORADO ELDORADO CONVER SEVILLE	PART NUMBER - 25106169 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 36.71 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 55.000 mm LENGTH OF WIRE(S) - 220.0 mm
GENERAL MOTORS	85	E1G2.8V2NAX / 2.8L / (CONFIDENTIAL)	6000 6000 WAGON CELEBRITY CELEBRITY WAGON CITATION II SKYLARK	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	E4G3.8V8XEB2 / 3.8L / (CONFIDENTIAL)	CENTURY CENTURY WAGON OUTLASS Ciera OUTLASS CRSR WG ELECTRA NINETYEIGHT REG	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	FIG1.6V2NEA2 / 1.6L / (CONFIDENTIAL)	1000 CHEVETTE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA			
				GENERAL CHARACTERISTICS		CONSTRUCTIONAL CHARACTERISTICS	
GENERAL MOTORS	85	FIG1.6W2NEA7 / 1.6L / (CONFIDENTIAL)	1000 CHEVETTE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm	
GENERAL MOTORS	85	FIG2.0V5VAG1 / 2.0L / (CONFIDENTIAL)	CAVALIER CAVALIER CONV. CAVALIER WAGON CIMARRON FIRENZA FIRENZA CSR WAG SKYHAWK SKYHAWK WAGON	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm	
GENERAL MOTORS	85	FIG2.8T2TRA3 / 2.8L / (CONFIDENTIAL)	S10 BLAZER 2WD S10 CA CHAS 2WD S10 PICKUP 2WD S15 CA CHAS 2WD S15 JIMMY 2WD S15 PICKUP 2WD T10 BLAZER 4WD T10 PICKUP 4WD T15 JIMMY 4WD T15 PICKUP 4WD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm	
GENERAL MOTORS	85	FIG2.8V8XGZ9 / 2.8L / (CONFIDENTIAL)	6000 6000 WAGON CAMARO CAVALIER CAVALIER CONV. CAVALIER WAGON CELEBRITY CELEBRITY WAGON CIMARRON CITATION II FIERO FIREBIRD FIRENZA FIRENZA CSR WAG	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm	

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			SKYLARK			
GENERAL MOTORS	85	FIG2.8MBYGZ3 / 2.8L / (CONFIDENTIAL)	6000 6000 WAGON CAMARO CAVALIER CAVALIER CONV CELEBRITY CELEBRITY WAGON CIMARRON CITATION II FIREBIRD FIRENZA FIRENZA CSR WAG SKYLARK	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	FIG4.3T4TAA3 / 4.3L / (CONFIDENTIAL)	ASTRO 2WD(PASS) ASTRO2WD(CARGO) C10 PICKUP 2WD C15 PICKUP 2WD G10/20 SPVN 2WD G10/20 VAN 2WD G15/25 RALLY2WD G15/25 VORA 2WD K10 PICKUP 4WD K15 PICKUP 4WD SAFARI2WD(CARG) SAFARI2WD(PASS)	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	FIG4.3V5NDA7 / 4.3L / (CONFIDENTIAL)	CABALLERO PU 2W CAPRICE WAGON EL CAMINO PU 2W IMPALA/CAPRICE MONTE CARLO PARISIENNE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	FIG4.3W5NDA1 / 4.3L / (CONFIDENTIAL)	CABALLERO PU 2W EL CAMINO PU 2W IMPALA/CAPRICE MONTE CARLO PARISIENNE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	85	FIG5.0W4NEAD / 5.0L / (CONFIDENTIAL)	BONNEVILLE CABALLERO PU 2W CAMARO CAPRICE WAGON EL CAMINO PU 2W FIREBIRD GRAND PRIX IMPALA/CAPRICE MONTE CARLO PARISIENNE PARISIENNE WGN	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	FIG5.7T4TYA5 / 5.7L / (CONFIDENTIAL)	C10 PICKUP 2WD C10 SUBURB 2WD C15 PICKUP 2WD C15 SUBURB 2WD C20 PICKUP 2WD C25 PICKUP 2WD G10/20 SPVN 2WD G10/20 VAN 2WD G15/25 RALLY 2WD G15/25 VORA 2WD G30 SPRTVAN 2WD G35 RALLY 2WD K10 BLAZER 4WD K10 PICKUP 4WD K10 SUBURB 4WD K15 JIMMY 4WD K15 PICKUP 4WD K15 SUBURB 4WD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	FIG5.7V4NEA4 / 5.0L / (CONFIDENTIAL)	BONNEVILLE CABALLERO PU 2W CAMARO CAPRICE WAGON EL CAMINO PU 2W FIREBIRD GRAND PRIX IMPALA/CAPRICE MONTE CARLO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			PARISIENNE PARISIENNE WGN			
GENERAL MOTORS	85	F1G5 7V8NEA9 / 5.0L / (CONFIDENTIAL)	CAMARO CORVETTE FIREBIRD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	F2G1 8V5TDG1 / 1.8L / (CONFIDENTIAL)	FIRENZA FIRENZA CSR WAG SKYHAWK SKYHAWK WAGON SUNBIRD SUNBIRD CONVERT SUNBIRD WAGON	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	F2G2 5V5TPG8 / 2.5L / (CONFIDENTIAL)	ASTRO 2WD(PASS) ASTRO2WD(CARGO) S10 BLAZER 2WD S10 CA CHAS 2WD S10 PICKUP 2WD S15 CA CHAS 2WD S15 JIMMY 2WD S15 PICKUP 2WD SAFARI2WD(CARG) T10 BLAZER 4WD T10 PICKUP 4WD T15 JIMMY 4WD T15 PICKUP 4WD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	F2G2 5V5TPG8 / 2.5L / (CONFIDENTIAL)	6000 6000 WAGON CALAIS CAMARO CELEBRITY CELEBRITY WAGON CENTURY CENTURY WAGON CITATION II CUTLASS CIERA	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	85	F3G5.0V4NLA3 / 5.0L / (CONFIDENTIAL)	OUTLASS CRSR WGN FIERO FIREBIRD GRAND AM SKYLARK SOMERSET REGAL			
			CUSTOM CRSR WGN OUTLASS SUPREME DELTA 88 ROYALE LESAB/ELEC WGN LESABRE RIVIERA RIVIERA CONVERT TORONADO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	F3G5.0V4NBA3 / 5.0L / (CONFIDENTIAL)	CUSTOM CRSR WGN OUTLASS SUPREME DELTA 88 ROYALE LESAB/ELEC WGN LESABRE RIVIERA RIVIERA CONVERT TORONADO	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
			CENTURY CENTURY WAGON OUTLASS CIERA OUTLASS CRSR WGN ELECTRA NINETYEIGHT REG	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	F4G3.8V2NSY6 / 3.8L / (CONFIDENTIAL)	BONNEVILLE OUTLASS SUPREME DELTA 88 ROYALE GRAND PRIX LESABRE REGAL	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
			CALAIS CENTURY CENTURY WAGON OUTLASS CIERA OUTLASS CRSR WGN	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			ELECTRA GRAND AM NINETYEIGHT REG SOMERSET REGAL			
GENERAL MOTORS	85	F4G3.8V9XEB7 / 3.8L TURBO / (CONFIDENTIAL)	REGAL RIVIERA RIVIERA CONVERT	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	F4G3.8M2NSY0 / 3.0L / (CONFIDENTIAL)	BONNEVILLE CENTURY CENTURY WAGON CUTLASS CIERA CUTLASS CRSR WG CUTLASS SUPREME DELTA 88 ROYALE ELECTRA GRAND PRIX LESABRE NINETYEIGHT REG REGAL	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	F6G4.1V5NKAB / 4.1L / (CONFIDENTIAL)	ELDORADO ELDORADO CONV FLTW D BRM (RWD) FLTW D/DVIL (FWD) SEVILLE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	85	F6G4.1V5NKA2 / 4.1L / (CONFIDENTIAL)	ELDORADO FLTW D BRM (RWD) FLTW D/DVIL (FWD) SEVILLE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G1G1.6V2NEA3 / 1.6L / (CONFIDENTIAL)	1000 CHEVETTE CS	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	86	GLG2 0V5KAG2 / 2 OL / (CONFIDENTIAL)	CAVALIER CAVALIER CONV CAVALIER WAGON CIMARRON FIRENZA FIRENZA CRUISER SKYHAWK SKYHAWK WAGON SUNBIRD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	GLG2 0W5KAG7 / 2 OL / (CONFIDENTIAL)	CAVALIER CAVALIER CONV CAVALIER WAGON CIMARRON FIRENZA FIRENZA CRUISER SKYHAWK SKYHAWK WAGON	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230 0 mm
GENERAL MOTORS	86	GLG2 8T5HTR5 / 2 BL / (CONFIDENTIAL)	S10 BLAZER 2WD S10 CA CHAS 2WD S10 PICKUP 2WD S15 CA CHAS 2WD S15 JIMMY 2WD S15 PICKUP 2WD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230 0 mm
GENERAL MOTORS	86	GLG2 8T5TRY1 / 2 BL / (CONFIDENTIAL)	S10 BLAZER 2WD S10 CA CHAS 2WD S10 PICKUP 2WD S15 CA CHAS 2WD S15 JIMMY 2WD S15 PICKUP 2WD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	GLG2 8V2NNA1 / 2 BL / (CONFIDENTIAL)	6000 6000 WAGON CELEBRITY CELEBRITY WAGON CENTURY CENTURY WAGON OUTLASS CIERA	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230 0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			OUTLASS CRUISER			
GENERAL MOTORS	86	G1G2 8V8GZK / 2 8L / (CONFIDENTIAL)	6000 6000 WAGON CAMARO CAVALIER CAVALIER CONV CAVALIER WAGON CELEBRITY CELEBRITY WAGON CIMARRON OUTLASS CIERA OUTLASS CRUISER FIERO FIREBIRD FIRENZA	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G1G2 8V8GZ4 / 2 8L / (CONFIDENTIAL)	6000 6000 WAGON CAMARO CAVALIER CAVALIER CONV CELEBRITY CELEBRITY WAGON CIMARRON OUTLASS CIERA OUTLASS CRUISER FIERO FIREBIRD FIRENZA	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G1G4 3T5TAAB / 4 3L / (CONFIDENTIAL)	ASTRO 2WD(PASS) ASTRO2WD(CARGO) SAFARI2WD(CARGO) SAFARI2WD(PASS)	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G1G4 3T5TMGB / 4 3L / (CONFIDENTIAL)	ASTRO 2WD(PASS) ASTRO2WD(CARGO) SAFARI2WD(CARGO) SAFARI2WD(PASS)	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	86	G1G4 3V5ND48 / 4 3L / (CONFIDENTIAL)	BONNEVILLE CABALLERO FUZWD CAPRICE EL CAMINO FUZWD GRAND PRIX MONTE CARLO PARISIENNE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1 5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230 0 mm
GENERAL MOTORS	86	G1G5 0V4NTA3 / 5 0L / (CONFIDENTIAL)	CAMARO FIREBIRD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1 5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230 0 mm
GENERAL MOTORS	86	G1G5 0W4NEA1 / 5 0L / (CONFIDENTIAL)	BONNEVILLE CABALLERO FUZWD CAMARO CAPRICE CAPRICE WAGON EL CAMINO FUZWD FIREBIRD GRAND PRIX MONTE CARLO PARISIENNE PARISIENNE WGN	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1 5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230 0 mm
GENERAL MOTORS	86	G1G5 0W4NTA2 / 5 0L / (CONFIDENTIAL)	CAMARO FIREBIRD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1 5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230 0 mm
GENERAL MOTORS	86	G1G5 7T4TYA6 / 5 0L / (CONFIDENTIAL)	C10 PICKUP 2WD C15 PICKUP 2WD G10/20 VAN 2WD G15/25 VORA 2WD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1 5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230 0 mm
GENERAL MOTORS	86	G1G5 7V4NEA5 / 5 0L / (CONFIDENTIAL)	BONNEVILLE CABALLERO FUZWD CAMARO CAPRICE CAPRICE WAGON	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37 11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 2 TO 0 8 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1 5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 30 000 mm SENSOR LENGTH ABOVE THREADS - 50 000 mm LENGTH OF WIRE(S) - 230 0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			EL CAMINO F2WD FIREBIRD GRAND PRIX MONTE CARLO PARISIENNE PARISIENNE WGN			
GENERAL MOTORS	86	G1G5 7V8NTA6 / 5 OL / (CONFIDENTIAL)	CAMARO FIREBIRD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G2G1 8V5TDG2 / 1 8L / (CONFIDENTIAL)	FIRENZA FIRENZA CRUISER SKYHAWK SKYHAWK WAGON SUNBIRD SUNBIRD CONV SUNBIRD WAGON	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G2G1 8V9T5A8 / 1 8L / (CONFIDENTIAL)	SKYHAWK SUNBIRD SUNBIRD CONV	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G2G2 .5T5TPGX / 2 5L / (CONFIDENTIAL)	ASTRO 2WD(PASS) ASTRO2WD(CARGO) S10 BLAZER 2WD S10 CA CHAS 2WD S10 PICKUP 2WD S15 CA CHAS 2WD S15 JIMMY 2WD S15 PICKUP 2WD SAFARI2WD(CARG) SAFARI2WD(PASS) T10 BLAZER 4WD T10 PICKUP 4WD T15 JIMMY 4WD T15 PICKUP 4WD	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
GENERAL MOTORS	86	G2G2 5V5TFG9 / 2.5L / (CONFIDENTIAL)	6000 6000 WAGON CALAIS CELEBRITY CELEBRITY WAGON CENTURY CENTURY WAGON CUTLASS CIERA CUTLASS CRUISER FIERO GRAND AM SOMERSET/LARK	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G3G5 0V4NLA1 / 5.0L / (CONFIDENTIAL)	CAPRICE CAPRICE WAGON CUSTOM CRUISER CUTLASS SUPREME FLTW/BRM LESAB/ELEC WGN PARISIENNE PARISIENNE WGN REGAL	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G3G5 0V4NBAA / 5.0L / (CONFIDENTIAL)	CAPRICE WAGON CUSTOM CRUISER CUTLASS SUPREME FLTW/BRM LESAB/ELEC WGN PARISIENNE PARISIENNE WGN REGAL	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G4G3 8V2NSY7 / 3.8L / (CONFIDENTIAL)	BONNEVILLE CUTLASS SUPREME GRAND PRIX REGAL	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G4G3 8V8KEB4 / 3.0L / (CONFIDENTIAL)	CALAIS CENTURY CENTURY WAGON CUTLASS CIERA DELTA 88 ROYALE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			ELECTRA GRAND AM LESABRE NINETYEIGHT REG RIVIERA SOMERSET/LARK TORONADO			
GENERAL MOTORS	86	G4G3 8V8KEB8 / 3.8L / (CONFIDENTIAL)	REGAL	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G4G3.8M2NSY1 / 3.8L / (CONFIDENTIAL)	BONNEVILLE CUTLASS SUPREME GRAND PRIX REGAL	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G664 1V5NK49 / 4.1L / (CONFIDENTIAL)	DEVILLE ELDORADO LIMOUSINE SEVILLE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
GENERAL MOTORS	86	G664 1W5NK43 / 4.1L / (CONFIDENTIAL)	DEVILLE ELDORADO SEVILLE	PART NUMBER - 25105107 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$ 37.11 CONNECTOR TYPE - PIN, MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.8 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 2	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 30.000 mm SENSOR LENGTH ABOVE THREADS - 50.000 mm LENGTH OF WIRE(S) - 230.0 mm
HONDA	84	BH11 5V3FCF0 (b)/ 1.5L / (CONFIDENTIAL)	CIVIC CIVIC COUPE CIVIC WAGON	PART NUMBER - 36531-PE2-904 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$215.32 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 21.000 mm SENSOR LENGTH ABOVE THREADS - 76.000 mm LENGTH OF WIRE(S) - 495.0 mm
				PART NUMBER - 36531-PE2-905 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$215.32 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 6.000 mm SENSOR LENGTH BELOW THREADS - 22.000 mm SENSOR LENGTH ABOVE THREADS - 71.000 mm LENGTH OF WIRE(S) - 498.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
HONDA	84	EHN1 5V3FDCK (b) / 1.5L / (CONFIDENTIAL)	CIVIC CIVIC COUPE CIVIC WAGON	PART NUMBER - 36531-PE2-904	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 7.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 21.000 mm
				RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 76.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 495.0 mm
				PART NUMBER - 36531-PE2-905	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 6.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 22.000 mm
				RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 71.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 498.0 mm
HONDA	84	EHN1 8V0FGF3 / 1.8L / (CONFIDENTIAL)	PRELUDE	PART NUMBER - 36531-PC7-663	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 22.000 mm
				RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 75.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 285.0 mm
HONDA	84	EHN1 8V0FHC2 / 1.8L / (CONFIDENTIAL)	PRELUDE	PART NUMBER - 36531-PC7-663	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 22.000 mm
				RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 75.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 285.0 mm
HONDA	84	EHN1 8V3FEFD / 1.8L / (CONFIDENTIAL)	ACCORD	PART NUMBER - 36531-PD2-663	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 6.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 23.000 mm
				RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 71.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 265.0 mm
HONDA	84	EHN1 8V3FFCX / 1.8L / (CONFIDENTIAL)	ACCORD	PART NUMBER - 36531-PD2-663	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 6.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 23.000 mm
				RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 71.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 265.0 mm
HONDA	85	FHN1 5V3FCF1 / 1.5L / (CONFIDENTIAL)	CIVIC CIVIC COUPE CIVIC WAGON	PART NUMBER - 36531-PE1-662	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 7.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 22.000 mm
				RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 71.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 500.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
HONDA	85	FH1.5V3FDC0 / 1.5L / (CONFIDENTIAL)	CIVIC CIVIC COUPE CIVIC WAGON	PART NUMBER - 36531-PE1-662 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$215.32 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 22.000 mm SENSOR LENGTH ABOVE THREADS - 71.000 mm LENGTH OF WIRE(S) - 500.0 mm
HONDA	85	FH1.5V3FTF1 / 1.5L / (CONFIDENTIAL)	CIVIC WAGON 4WD	PART NUMBER - 36531-PE1-662 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$215.32 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 22.000 mm SENSOR LENGTH ABOVE THREADS - 71.000 mm LENGTH OF WIRE(S) - 500.0 mm
HONDA	85	FH1.5V5PLF9 / 1.5L / (CONFIDENTIAL)	CIVIC COUPE	PART NUMBER - 36531-PE1-662 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$215.32 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 22.000 mm SENSOR LENGTH ABOVE THREADS - 71.000 mm LENGTH OF WIRE(S) - 500.0 mm
HONDA	85	FH1.8V0RGF4 / 1.8L / (CONFIDENTIAL)	PRELUDE	PART NUMBER - 36531-PC7-663 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$215.32 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 22.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 285.0 mm
HONDA	85	FH1.8V0RHC3 / 1.8L / (CONFIDENTIAL)	PRELUDE	PART NUMBER - 36531-PC7-663 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$215.32 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 22.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 285.0 mm
HONDA	85	FH1.8V3FEF1 (b) / 1.8L / (CONFIDENTIAL)	ACCORD	PART NUMBER - 36531-PD2-663 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$215.32 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 6.000 mm SENSOR LENGTH BELOW THREADS - 23.000 mm SENSOR LENGTH ABOVE THREADS - 71.000 mm LENGTH OF WIRE(S) - 265.0 mm
				PART NUMBER - 36531-PD6-662 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$215.32 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - NOT SPECIFIED SWITCH POINT - NOT SPECIFIED SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 21.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 357.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
HONDA	85	FH1 8V3FFC0 (b)/ 1.8L / (CONFIDENTIAL)	ACCORD	PART NUMBER - 36531-P02-663	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 6.000 mm
	CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 23.000 mm			
	RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 71.000 mm			
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 265.0 mm
				PART NUMBER - 36531-P06-662	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 21.000 mm
				RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 75.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 357.0 mm
HONDA	85	FH1 8V3FWF3 (b)/ 1.8L / (CONFIDENTIAL)	ACCORD	PART NUMBER - 36531-P02-663	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 6.000 mm
	CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 23.000 mm			
	RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 71.000 mm			
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 265.0 mm
				PART NUMBER - 36531-P06-662	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 21.000 mm
				RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 75.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 357.0 mm
HONDA	85	FH1 8V3FXF5 (b)/ 1.8L / (CONFIDENTIAL)	ACCORD	PART NUMBER - 36531-P02-663	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 6.000 mm
	CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 23.000 mm			
	RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 71.000 mm			
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 265.0 mm
				PART NUMBER - 36531-P06-662	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 21.000 mm
				RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 75.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 357.0 mm
HONDA	85	FH1 8V3FYC4 (b)/ 1.8L / (CONFIDENTIAL)	ACCORD	PART NUMBER - 36531-P02-663	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 6.000 mm
	CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 23.000 mm			
	RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 71.000 mm			
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 265.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
HONDA	85	F1H1 8V5FNF9 (b)/ 1.8L / (CONFIDENTIAL)	ACCORD	PART NUMBER - 36531-PD6-662	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 21.000 mm
				RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 75.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 357.0 mm
HONDA	85	F1H2 8V5FAF5 / 2.0L / (CONFIDENTIAL)	PRELUDE	PART NUMBER - 36531-PD2-663	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 6.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 23.000 mm
				RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 71.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 265.0 mm
HONDA	85	F1H2 8V5FAF5 / 2.0L / (CONFIDENTIAL)	PRELUDE	PART NUMBER - 36531-PD6-662	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - NOT SPECIFIED	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - NOT SPECIFIED	SENSOR LENGTH BELOW THREADS - 21.000 mm
				RETAIL PRICE - \$215.32	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 75.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 357.0 mm
NISSAN	81	BNS2 8V5FB7 / 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-000372	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	81	BNS2.8V5FC8 / 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-000372	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	81	BNS2.8V5FB3 / 2.4L / (CONFIDENTIAL)	280ZX 280ZX 2+2 810 810 WAGON	PART NUMBER - A24-000372	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	81	BNS2 8V5FC4 / 2.4L / (CONFIDENTIAL)	280ZX 280ZX 2+2 810 810 WAGON	PART NUMBER - A24-000372	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
NISSAN	81	BNS2 8V5FD5 / 2.8L TURBO / (CONFIDENTIAL)	280 ZX	CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
NISSAN	81	BNS2 8V5FE6 / 2.8L TURBO / (CONFIDENTIAL)	280 ZX	CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-000372	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
NISSAN	81	BNS2 8V5FE6 / 2.8L TURBO / (CONFIDENTIAL)	280 ZX	SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
NISSAN	82	ONS1 5V9FAF5 (b)/ 1.5L / (CONFIDENTIAL)	NISSAN SENTRA	RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	82	ONS2 2V5FAF1 / 2.2L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-000	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
NISSAN	82	ONS2 2V5FAF1 / 2.2L / (CONFIDENTIAL)	200SX	CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
NISSAN	82	ONS2 8V5FAF4 / 2.4L / (CONFIDENTIAL)	280ZX 280ZX 2+2 810 810 WAGON	CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-000372	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
NISSAN	82	ONS2 8V5FAF4 / 2.4L / (CONFIDENTIAL)	280ZX 280ZX 2+2 810 810 WAGON	SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
NISSAN	82	ONS2 8V5FAF4 / 2.4L / (CONFIDENTIAL)	280ZX 280ZX 2+2 810 810 WAGON	RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	82	ONS2 8V5FCF8 / 2.8L TURBO / (CONFIDENTIAL)	280ZX 280ZX 2+2	PART NUMBER - A24-000372 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 77.0 mm
NISSAN	83	ONS1 5V5FAC9 / 1.5L TURBO / (CONFIDENTIAL)	PULSAR	PART NUMBER - A24-600003 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 127.0 mm
NISSAN	83	ONS1 5V5FAF1 / 1.5L TURBO / (CONFIDENTIAL)	PULSAR	PART NUMBER - A24-600003 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 127.0 mm
NISSAN	83	ONS1 5V9FAF6 / 1.5L / (CONFIDENTIAL)	NISSAN SENTRA	PART NUMBER - A24-000 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 77.0 mm
NISSAN	83	ONS1 6V9FAC9 / 1.6L / (CONFIDENTIAL)	NISSAN SENTRA NISSAN SENTRA W PULSAR	PART NUMBER - A24-600 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 77.0 mm
NISSAN	83	ONS2 2V5FAA8 (b) / 2.2L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-000001 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 54.000 mm LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-600001 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 86.000 mm LENGTH OF WIRE(S) - 77.0 mm

(continued)

- (a) Number of vehicles sold with given engine family.
(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	83	DNS2 4T9FAC6 (b)/ 2.4L / (CONFIDENTIAL)	NISSAN CAB CHAS NISSAN PICKUP 2 NISSAN PICKUP 4	PART NUMBER - A24-000001	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
			PART NUMBER - A24-600001	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm	
			RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
NISSAN	83	DNS2 8V5FAA0 (b)/ 2.8L / (CONFIDENTIAL)	280ZX 280ZX 2+2 810 810 WAGON	PART NUMBER - A24-000372	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
			PART NUMBER - A24-600001	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm	
			RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
NISSAN	83	DNS2 8V5FBC4 (b)/ 2.8L TURBO / (CONFIDENTIAL)	280 ZX 280 ZX 2+2	PART NUMBER - A24-600001	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
			PART NUMBER - A24-000372	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm	
			RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
NISSAN	83	DNS2 8V5FBF7 (b)/ 2.8L TURBO / (CONFIDENTIAL)	280ZX 280ZX 2+2	PART NUMBER - A24-000372	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	84	ENS1 6V9FACX / 1.6L / (CONFIDENTIAL)	PULSAR/PULSAR-N SENTRA SENTRA WAGON	PART NUMBER - A24-600001	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
NISSAN	84	ENS1 8V5FAC6 / 1.8L TURBO / (CONFIDENTIAL)	200 SX	CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
NISSAN	84	ENS1 8V5FAF9 / 1.8L TURBO / (CONFIDENTIAL)	200SX	CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
NISSAN	84	ENS1 8V5FAF9 / 1.8L TURBO / (CONFIDENTIAL)	200SX	SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
NISSAN	84	ENS1 8V5FAF9 / 1.8L TURBO / (CONFIDENTIAL)	200SX	RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	84	ENS2.0V5FACX (b)/ 2.0L / (CONFIDENTIAL)	200SX STANZA	PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
NISSAN	84	ENS2.0V5FAF2 (b)/ 2.0L / (CONFIDENTIAL)	200SX STANZA	CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
NISSAN	84	ENS2.0V5FAF2 (b)/ 2.0L / (CONFIDENTIAL)	200SX STANZA	CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-000050	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
NISSAN	84	ENS2.0V5FAF2 (b)/ 2.0L / (CONFIDENTIAL)	200SX STANZA	SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
NISSAN	84	ENS2.0V5FAF2 (b)/ 2.0L / (CONFIDENTIAL)	200SX STANZA	RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	84	ENS2 4T9FAC7 (b)/ 2.4L / (CONFIDENTIAL)	PICKUP 2WD PICKUP 4WD PICKUP CAB CHAS	PART NUMBER - A24-600001	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	84	ENS2 4V5FAC1 (b)/ 2.4L / (CONFIDENTIAL)	MAXIMA MAXIMA WAGON	PART NUMBER - A24-000001	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	84	ENS2 4V5FAC1 (b)/ 2.4L / (CONFIDENTIAL)	MAXIMA MAXIMA WAGON	PART NUMBER - A24-600001	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	84	ENS2 4V5FAC1 (b)/ 2.4L / (CONFIDENTIAL)	MAXIMA MAXIMA WAGON	PART NUMBER - A24-000372	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	84	ENS2 4V5FAC1 (b)/ 2.4L / (CONFIDENTIAL)	MAXIMA MAXIMA WAGON	PART NUMBER - A24-000050	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	84	ENS2 4V5FAF4 (b)/ 2.4L / (CONFIDENTIAL)	MAXIMA MAXIMA WAGON	PART NUMBER - A24-000001	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18 000 mm
				RETAIL PRICE - \$ 94 81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54 000 mm
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77 0 mm	
			PART NUMBER - A24-600001	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18 000 mm	
			RETAIL PRICE - \$ 94 81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85 000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
			PART NUMBER - A24-000372	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 18 000 mm	
			RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54 000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
			PART NUMBER - A24-000050	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 18 000 mm	
			RETAIL PRICE - \$ 94 81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85 000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
NISSAN	84	ENS3 0V5FAC7 / 3 DL / (CONFIDENTIAL)	300ZX 300ZX 2+2	PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 18 000 mm
				RETAIL PRICE - \$138 33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85 000 mm
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89 0 mm	
NISSAN	84	ENS3 0V5FAFX / 3 DL / (CONFIDENTIAL)	300ZX 300ZX 2+2	PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 18 000 mm
				RETAIL PRICE - \$138 33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85 000 mm
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
NISSAN	84	ENS3 0V5FBC9 / 3 DL TURBO / (CONFIDENTIAL)	300 ZX	PART NUMBER - A24-601000	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18 000 mm
				RETAIL PRICE - \$136.11	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85 000 mm
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 79 0 mm	

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	84	ENS3 0V5FBF1 / 3 OIL TURBO / (CONFIDENTIAL)	300 ZX	PART NUMBER - A24-601 SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$138 33 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 85 000 mm LENGTH OF WIRE(S) - 89.0 mm
NISSAN	85	FNS1 6V9FAC0 (b)/ 1 6L / (CONFIDENTIAL)	PULSAR SENTRA SENTRA WAGON	PART NUMBER - A24-600 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94 81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 54 000 mm LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-601 SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$138 33 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 85 000 mm LENGTH OF WIRE(S) - 89 0 mm
NISSAN	85	FNS1 6V9FBC2 (b)/ 1 6L / (CONFIDENTIAL)	PULSAR SENTRA SENTRA WAGON	PART NUMBER - A24-600 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94 81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 54 000 mm LENGTH OF WIRE(S) - 77 0 mm
				PART NUMBER - A24-610 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94 81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 54 000 mm LENGTH OF WIRE(S) - 77.0 mm
NISSAN	85	FNS1 6V9HAF9 (b)/ 1 6L / (CONFIDENTIAL)	PULSAR SENTRA SENTRA WAGON	PART NUMBER - A24-600 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94 81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 54 000 mm LENGTH OF WIRE(S) - 77 0 mm
				PART NUMBER - A24-610 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94 81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 54 000 mm LENGTH OF WIRE(S) - 77.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	85	FNS1 8V5FAC7 (b)/ 1.8L TURBO / (CONFIDENTIAL)	200 SX	PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
			PART NUMBER - A24-611	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm	
			RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
NISSAN	85	FNS1 8V5FAFX (b)/ 1.8L TURBO / (CONFIDENTIAL)	200SX	PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
			PART NUMBER - A24-611	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm	
			RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
NISSAN	85	FNS2 0V5FAC0 (b)/ 2.0L / (CONFIDENTIAL)	STANZA	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
			PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm	
			RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
NISSAN	85	FNS2 0V5FAF3 (b)/ 2.0L / (CONFIDENTIAL)	STANZA	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	85	RNS2 0V5FBC2 (b)/ 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	85	RNS2 0V5FBF5 (b)/ 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-000	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	85	RNS2 0V5FBF5 (b)/ 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	85	RNS2 0V5FBF5 (b)/ 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	85	RNS2 0V5FBF5 (b)/ 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-620	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 86.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	85	RNS2 0V5FBF5 (b)/ 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-000	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	85	RNS2 0V5FBF5 (b)/ 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	85	FMS2.0V5FC04 (b)/ 2.0L / (CONFIDENTIAL)	2005X	PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-620	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm				
CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm				
RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm				
CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm				
NISSAN	85	FMS2.0V5FC04 (b)/ 2.0L / (CONFIDENTIAL)	2005X	PART NUMBER - A24-000	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm				
CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm				
RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm				
CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm				
NISSAN	85	FMS2.0V5FC07 (b)/ 2.0L / (CONFIDENTIAL)	2005X	PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-620	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm				
CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm				
RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm				
CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm				

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA			
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS	
NISSAN	85	FNS2 4T9FAC8 (b)/ 2.4L / (CONFIDENTIAL)	CAB CHASSIS 2WD TRUCK 2WD TRUCK 4WD	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm	
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm	
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm	
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
NISSAN	85	FNS2 4T9FAFD (b)/ 2.0L / (CONFIDENTIAL)	CAB CHASSIS 2WD TRUCK 2WD TRUCK 4WD	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm	
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm	
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm	
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	85	FNS3 OVSFACB (b)/ 3 OL / (CONFIDENTIAL)	300ZX 300ZX 2+2	PART NUMBER - A24-621	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$136.11	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
			PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm	
			RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm				
PART NUMBER - A24-611	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm				
SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm				
CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm				
RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm				
CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm				
NISSAN	85	FNS3 OVSFAFD (b)/ 3 OL / (CONFIDENTIAL)	300ZX 300ZX 2+2	PART NUMBER - A24-621	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$136.11	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
			PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm	
			RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm				
PART NUMBER - A24-611	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm				
SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm				
CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm				
RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm				
CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm				
NISSAN	85	FNS3 OVSFECCX (b)/ 3.0L TURBO / (CONFIDENTIAL)	300 ZX	PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	85	FNS3 OV5FBF2 (b)/ 3.0L TURBO / (CONFIDENTIAL)	300ZX	PART NUMBER - A24-611	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
NISSAN	85	FNS3 OV5HAC3 (b)/ 3.0L / (CONFIDENTIAL)	MAXIMA MAXIMA WAGON	PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
NISSAN	85	FNS3 OV5HAF6 (b)/ 3.0L / (CONFIDENTIAL)	MAXIMA MAXIMA WAGON	PART NUMBER - A24-611	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
NISSAN	85	FNS3 OV5HAF6 (b)/ 3.0L / (CONFIDENTIAL)	MAXIMA MAXIMA WAGON	PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
			PART NUMBER - A24-611	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm	
			RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	86	GNS1 6V9FAC1 (b)/ 1.6L / (CONFIDENTIAL)	PULSAR SENTRA SENTRA WAGON	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	86	GNS1 6V9HAFX (b)/ 1.6L / (CONFIDENTIAL)	PULSAR SENTRA SENTRA WAGON	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	86	GNS1.8V5FAC8 (b)/ 1.8L TURBO / (CONFIDENTIAL)	200 SX TURBO	PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm
				PART NUMBER - A24-611	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm
NISSAN	86	GNS1.8V5FAFD (b)/ 1.8L TURBO / (CONFIDENTIAL)	200 SX TURBO	PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	86	GNS1 8V5FBCK (b)/ 1.8L TURBO / (CONFIDENTIAL)	200 SX TURBO	PART NUMBER - A24-611	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
NISSAN	86	GNS1 8V5FBF2 (b)/ 1.8L TURBO / (CONFIDENTIAL)	200 SX TURBO	PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
NISSAN	86	GNS1 8V5FBF2 (b)/ 1.8L TURBO / (CONFIDENTIAL)	200 SX TURBO	PART NUMBER - A24-621	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$136.11	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm	
NISSAN	86	GNS2 0V5FAC1 (b)/ 2.6L / (CONFIDENTIAL)	STANZA WAGON 2W	PART NUMBER - A24-620	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
NISSAN	86	GNS2 0V5FAC1 (b)/ 2.6L / (CONFIDENTIAL)	STANZA WAGON 2W	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	86	GNS2 0V5FAF4 (b)/ 2 OL / (CONFIDENTIAL)	STANZA WAGON 2W	PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-620	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	86	GNS2 0V5FBC3 / 2 OL / (CONFIDENTIAL)	STANZA WAGON 4W	PART NUMBER - D2F	SENSOR MATERIAL - TITANIA	THREAD SIZE - 12mm X 1.25mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$138.20	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 53.500 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 134.0 mm
NISSAN	86	GNS2 0V5FBF6 / 2 OL / (CONFIDENTIAL)	STANZA WAGON 4W	PART NUMBER - D2F	SENSOR MATERIAL - TITANIA	THREAD SIZE - 12mm X 1.25mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$138.20	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 53.500 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 134.0 mm
NISSAN	86	GNS2 0V5FDC5 (b)/ 2 OL / (CONFIDENTIAL)	200 SX	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	86	GNS2 0V5FCF8 (b)/ 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-000	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-620	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm				
RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm				
CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm				
PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm				
SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm				
CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm				
RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm				
CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm				
PART NUMBER - A24-620	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm				
SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm				
CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm				
RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm				
CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm				
PART NUMBER - A24-000	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm				
SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm				
CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm				
RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm				
CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm				
PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm				
SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm				
CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm				
RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm				
CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm				

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	86	GNS2 0V5FDC7 (b)/ 2 OL / (CONFIDENTIAL)	200SX	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 18 000 mm
				RETAIL PRICE - \$ 94 81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54 000 mm
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77 0 mm	
			PART NUMBER - A24-620	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 18 000 mm	
			RETAIL PRICE - \$ 94 81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85 000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
NISSAN	86	GNS2 0V5FDFX (b)/ 2 OL / (CONFIDENTIAL)	200SX	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 18 000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54 000 mm
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77 0 mm	
			PART NUMBER - A24-620	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 18 000 mm	
			RETAIL PRICE - \$ 94 81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85 000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77 0 mm	
NISSAN	86	GNS2 0V5FEC9 (b)/ 2 OL / (CONFIDENTIAL)	STANZA	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 18 000 mm
				RETAIL PRICE - \$ 94 81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54 000 mm
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77 0 mm	
			PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm	
			SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm	
			CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14 70	SENSOR LENGTH BELOW THREADS - 18 000 mm	
			RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54 000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77 0 mm	
NISSAN	86	GNS2 0V5FEF1 (b)/ 2 OL / (CONFIDENTIAL)	STANZA	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0 0 TO 1 0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18 000 mm
				RETAIL PRICE - \$ 94 81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54 000 mm
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77 0 mm	

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	86	GNS2 0V5FGC2 (b)/ 2.0L / (CONFIDENTIAL)	200 SX	PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	86	GNS2 0V5FGF5 (b)/ 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	86	GNS2 0V5FGC2 (b)/ 2.0L / (CONFIDENTIAL)	200 SX	PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	86	GNS2 0V5FGF5 (b)/ 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-620	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	86	GNS2 0V5FGF5 (b)/ 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm
NISSAN	86	GNS2 0V5FGF5 (b)/ 2.0L / (CONFIDENTIAL)	200SX	PART NUMBER - A24-620	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
				RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85.000 mm
				CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
				PART NUMBER - A24-000 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94 81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 54 000 mm LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-600 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94 81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 54 000 mm LENGTH OF WIRE(S) - 77.0 mm
NISSAN	86	GNS2 4T5FAC4 / 2.4L / (CONFIDENTIAL)	TRUCK 4WD	PART NUMBER - A24-600 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94 81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 54 000 mm LENGTH OF WIRE(S) - 77 0 mm
NISSAN	86	GNS2 4T5FAF7 / 2.4L / (CONFIDENTIAL)	TRUCK 4WD	PART NUMBER - A24-600 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94 81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 54 000 mm LENGTH OF WIRE(S) - 77 0 mm
NISSAN	86	GNS2 4T5HACX (b)/ 2.4L / (CONFIDENTIAL)	TRUCK 2WD (NEW) TRUCK 4WD (NEW)	PART NUMBER - A24-600 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94 81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 54 000 mm LENGTH OF WIRE(S) - 77.0 mm
				PART NUMBER - A24-620 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94 81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 85 000 mm LENGTH OF WIRE(S) - 77.0 mm
NISSAN	86	GNS2 4T5HAF2 (b)/ 2.4L / (CONFIDENTIAL)	TRUCK 2WD (NEW) TRUCK 4WD (NEW)	PART NUMBER - A24-600 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94 81 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8 000 mm SENSOR LENGTH BELOW THREADS - 18 000 mm SENSOR LENGTH ABOVE THREADS - 54 000 mm LENGTH OF WIRE(S) - 77.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	86	GNS2 4T9FAC9 (b)/ 2.4L / (CONFIDENTIAL)	TRUCK 2WD TRUCK 4WD	PART NUMBER - A24-620	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 65.000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
NISSAN	86	GNS2 4T9FAF1 (b)/ 2.0L / (CONFIDENTIAL)	CAB CHASSIS 2WD TRUCK 2WD TRUCK 4WD	PART NUMBER - A24-600	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
NISSAN	86	GNS3 0T5HAF3 / 3.0L / (CONFIDENTIAL)	TRUCK 2WD (NEW) TRUCK 4WD (NEW)	PART NUMBER - A24-610	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18.000 mm
			RETAIL PRICE - \$ 94.81	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 54.000 mm	
			CONNECTOR TYPE - FEMALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 77.0 mm	
NISSAN	86	GNS3 0T5HAF8 / 3.0L / (CONFIDENTIAL)	CAB CHASSIS 2WD TRUCK 2WD (NEW) TRUCK 4WD (NEW)	PART NUMBER - D1F	SENSOR MATERIAL - TITANIA	THREAD SIZE - 12mm X 1.25mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 16.500 mm
			RETAIL PRICE - \$141.90	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 60.500 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 1700.0 mm	
NISSAN	86	GNS3 0T5HAF8 / 3.0L / (CONFIDENTIAL)	CAB CHASSIS 2WD TRUCK 2WD (NEW) TRUCK 4WD (NEW)	PART NUMBER - D1F	SENSOR MATERIAL - TITANIA	THREAD SIZE - 12mm X 1.25mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 16.500 mm
			RETAIL PRICE - \$141.90	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 60.500 mm	
			CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 1700.0 mm	

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	86	GNS3 OVSFBC0 / 3.0L / (CONFIDENTIAL)	300ZX 300ZX 2+2	PART NUMBER - D2F SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$138.20 CONNECTOR TYPE - MALE	SENSOR MATERIAL - TITANIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 12mm X 1.25mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 53.500 mm LENGTH OF WIRE(S) - 134.0 mm
NISSAN	86	GNS3 OVSFBF3 / 3.0L / (CONFIDENTIAL)	300ZX 300ZX 2+2	PART NUMBER - D2F SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$138.20 CONNECTOR TYPE - MALE	SENSOR MATERIAL - TITANIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 12mm X 1.25mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 53.500 mm LENGTH OF WIRE(S) - 134.0 mm
NISSAN	86	GNS3 OVSFCC2 / 3.0L TURBO / (CONFIDENTIAL)	300 ZX	PART NUMBER - D2F SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$138.20 CONNECTOR TYPE - MALE	SENSOR MATERIAL - TITANIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 12mm X 1.25mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 53.500 mm LENGTH OF WIRE(S) - 134.0 mm
NISSAN	86	GNS3 OVSFCF5 / 3.0L TURBO / (CONFIDENTIAL)	300ZX	PART NUMBER - D2F SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$138.20 CONNECTOR TYPE - MALE	SENSOR MATERIAL - TITANIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 12mm X 1.25mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 53.500 mm LENGTH OF WIRE(S) - 134.0 mm
NISSAN	86	GNS3 OVSFAC4 (b) / 3.0L / (CONFIDENTIAL)	MAXIMA MAXIMA WAGON	PART NUMBER - A24-621 SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$136.11 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 85.000 mm LENGTH OF WIRE(S) - 89.0 mm
				PART NUMBER - A24-601 SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$138.33 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 85.000 mm LENGTH OF WIRE(S) - 89.0 mm
				PART NUMBER - A24-611 SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$138.33 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 85.000 mm LENGTH OF WIRE(S) - 89.0 mm

(cont:rued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
NISSAN	86	GNS3 CV5HAF7 (b)/ 3 OL / (CONFIDENTIAL)	MAXIMA MAXIMA WAGON	PART NUMBER - A24-621	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18 000 mm
				RETAIL PRICE - \$136.11	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85 000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89 0 mm
				PART NUMBER - A24-601	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18 000 mm
				RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85 000 mm
CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89.0 mm				
NISSAN	86	GNS3 CV5HAF7 (b)/ 3 OL / (CONFIDENTIAL)	MAXIMA MAXIMA WAGON	PART NUMBER - A24-611	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18 000 mm
				RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85 000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89 0 mm
				PART NUMBER - A24-611	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 18 000 mm
				RETAIL PRICE - \$138.33	SPLASH PROTECTION - NOT SPECIFIED	SENSOR LENGTH ABOVE THREADS - 85 000 mm
CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 3	LENGTH OF WIRE(S) - 89 0 mm				
MITSUBISHI	83	DMT2 6V5FFD0 / 2 6L TURBO / (CONFIDENTIAL)	STARION	PART NUMBER - M0073546	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - FLANGE TYPE
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - NOT SPECIFIED
				CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 29 500 mm
				RETAIL PRICE - \$178.28	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 69 000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 388.0 mm
MITSUBISHI	84	BMT1 4V2FCA4 / 1 4L / (CONFIDENTIAL)	COLT	PART NUMBER - M0117240	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20 000 mm
				RETAIL PRICE - \$160.95	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 70 000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 289 0 mm
MITSUBISHI	84	BMT1 4V2FFD2 / 1 4L / (CONFIDENTIAL)	COLT PRECIS	PART NUMBER - M0117240	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20 000 mm
				RETAIL PRICE - \$160.95	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 70 000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 289 0 mm
MITSUBISHI	84	BMT1 6V2FFD3 / 1 6L / (CONFIDENTIAL)	COLT PRECIS	PART NUMBER - M0117240	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - 8 000 mm
				CHANGE INTERVAL - 50000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20 000 mm
				RETAIL PRICE - \$160.95	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 70 000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 289 0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
MITSUBISHI	84	EMT1 6V5FFD4 / 1.6L TURBO / (CONFIDENTIAL)	COLT PRECIS	PART NUMBER - MD117240 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$160.95 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 288.0 mm
MITSUBISHI	84	EMT1 8V5FFD6 / 1.8L TURBO / (CONFIDENTIAL)	CORDIA TREDIA	PART NUMBER - MD076706 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$272.05 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 389.0 mm
MITSUBISHI	84	EMT2 0V2FCAK / 2.0L / (CONFIDENTIAL)	COLT VISTA CORDIA TREDIA	PART NUMBER - MD117240 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$160.95 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 288.0 mm
MITSUBISHI	84	EMT2 0V2FFD8 / 2.0L / (CONFIDENTIAL)	COLT VISTA CORDIA SPACE WAGON TREDIA	PART NUMBER - MD117240 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$160.95 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 288.0 mm
MITSUBISHI	84	EMT2 6V5FFD1 / 2.6L TURBO / (CONFIDENTIAL)	CONQUEST STARION	PART NUMBER - MD073546 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$178.28 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 69.000 mm LENGTH OF WIRE(S) - 388.0 mm
MITSUBISHI	85	FMT1 5V2FCA0 / 1.5L / (CONFIDENTIAL)	COLT MIRAGE	PART NUMBER - MD089922 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$176.38 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 309.0 mm
MITSUBISHI	85	FMT1 5V2FFD9 / 1.5L / (CONFIDENTIAL)	COLT MIRAGE	PART NUMBER - MD089922 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$176.38 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 309.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
MITSUBISHI	85	FMT1 6V5FFD5 / 1.6L TURBO / (CONFIDENTIAL)	COLT MIRAGE	PART NUMBER - M0077621 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$176.20 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 239.0 mm
MITSUBISHI	85	FMT2 0T2FCA1 / 2.0L / (CONFIDENTIAL)	COLT VISTA 4WD RAM50 PICKUP 2W TRUCK 2WD	PART NUMBER - M0117240 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$160.95 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 289.0 mm
MITSUBISHI	85	FMT2 0T2FFDX / 2.0L / (CONFIDENTIAL)	COLT VISTA 4WD RAM50 PICKUP 2W TRUCK 2WD	PART NUMBER - M0117240 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$160.95 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 289.0 mm
MITSUBISHI	85	FMT2 0V2FCA0 / 2.0L / (CONFIDENTIAL)	COLT VISTA CORDIA TREDIA	PART NUMBER - M0117240 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$160.95 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 289.0 mm
MITSUBISHI	85	FMT2 0V2FFD9 / 2.0L / (CONFIDENTIAL)	COLT VISTA CORDIA SPACE WAGON TREDIA	PART NUMBER - M0117240 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$160.95 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 289.0 mm
MITSUBISHI	85	FMT2 4V5FFD1 / 2.3L / (CONFIDENTIAL)	GALANT	PART NUMBER - M0078791 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$176.88 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 539.0 mm
MITSUBISHI	85	FMT2 6T2FFD2 / 2.6L / (CONFIDENTIAL)	MONTERO 4WD POWER RAM50 P/U RAM50 PICKUP 2W TRUCK 2WD TRUCK 4WD	PART NUMBER - M0117240 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$160.95 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 289.0 mm

(cont:rued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
MITSUBISHI	86	2.0L / 2.0L / (CONFIDENTIAL)	COLT VISTA CORDIA TREDIA	PART NUMBER - M0117240 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$160.95 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 289.0 mm
MITSUBISHI	86	GMT1 5V2FCAL / 1.5L / (CONFIDENTIAL)	COLT	PART NUMBER - M0089922 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$176.38 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 309.0 mm
MITSUBISHI	86	GMT1 5V2HFD5 / 1.5L / (CONFIDENTIAL)	COLT	PART NUMBER - M0089922 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$176.38 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 309.0 mm
MITSUBISHI	86	GMT1 6EF / 1.6L TURBO TURBO / (CONFIDENTIAL)	COLT MIRAGE	PART NUMBER - M0077621 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$176.20 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 239.0 mm
MITSUBISHI	86	GMT1 8EF / 1.8L TURBO TURBO / (CONFIDENTIAL)	CORDIA TREDIA	PART NUMBER - M0076706 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$272.05 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 389.0 mm
MITSUBISHI	86	GMT2 0T2FBT2 / 2.0L / (CONFIDENTIAL)	COLT VISTA 4x4 RANGE 2x4 TRUCK 2x4	PART NUMBER - M0117240 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$160.95 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 289.0 mm
MITSUBISHI	86	GMT2 0T2FFD0 / 2.0L / (CONFIDENTIAL)	COLT VISTA 4x4 RANGE 2x4 TRUCK 2x4	PART NUMBER - M0117240 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$160.95 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 289.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
MITSUBISHI	86	GMT2 0V2HFD5 / 2.0L / (CONFIDENTIAL)	COLT VISTA	PART NUMBER - MD117240 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$160.95 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 289.0 mm
MITSUBISHI	86	GMT2 4EF / 2.4L / (CONFIDENTIAL)	GALANT	PART NUMBER - MD078791 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$176.88 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 8.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 539.0 mm
MITSUBISHI	86	GMT2 6EF / 2.6L TURBO TURBO / (CONFIDENTIAL)	CONQUEST STARION	PART NUMBER - MD073546 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$178.28 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 69.000 mm LENGTH OF WIRE(S) - 388.0 mm
MITSUBISHI	86	GMT2 6T2FFD3 / 2.6L / (CONFIDENTIAL)	MONTERO POWER RAM50 4WD RAM50 2WD TRUCK 2WD	PART NUMBER - MD073461 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 50000 MILES RETAIL PRICE - \$272.52 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.500 mm SENSOR LENGTH BELOW THREADS - 19.000 mm SENSOR LENGTH ABOVE THREADS - 73.500 mm LENGTH OF WIRE(S) - 283.0 mm
MAZDA	83	DTK1 5V2HCC9 (b) / 1.5L / (CONFIDENTIAL)	GLC LASER	PART NUMBER - E56318861 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - INSPECTION ONLY RETAIL PRICE - \$119.00 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.7 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.500 mm SENSOR LENGTH BELOW THREADS - 19.000 mm SENSOR LENGTH ABOVE THREADS - 71.000 mm LENGTH OF WIRE(S) - 438.5 mm
				PART NUMBER - FE0518861 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - INSPECTION ONLY RETAIL PRICE - \$119.00 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.7 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 62.000 mm LENGTH OF WIRE(S) - 447.0 mm
MAZDA	83	DTK1 5V2HDD1 (b) / 1.5L / (CONFIDENTIAL)	GLC	PART NUMBER - E56318861 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - INSPECTION ONLY RETAIL PRICE - \$119.00 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.7 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.500 mm SENSOR LENGTH BELOW THREADS - 19.000 mm SENSOR LENGTH ABOVE THREADS - 71.000 mm LENGTH OF WIRE(S) - 438.5 mm

(cont:rued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
MAZDA	83	DTK2 0V2HF7 (b)/ 2.0L / (CONFIDENTIAL)	626	PART NUMBER - FE0518861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.000 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 62.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 447.0 mm
MAZDA	83	DTK2 0V2HG6 (b)/ 2.0L / (CONFIDENTIAL)	626	PART NUMBER - E56318861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.500 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 19.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 71.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 438.5 mm
MAZDA	83	DTK2 0V2HG6 (b)/ 2.0L / (CONFIDENTIAL)	626	PART NUMBER - FE0518861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.000 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 62.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 447.0 mm
MAZDA	84	ETK1 .3V5HF06 / 1.3L / (CONFIDENTIAL)	RX-7	PART NUMBER - N30418861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.500 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 19.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 71.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 238.0 mm
MAZDA	84	ETK1 5V2HG3 (b)/ 1.5L / (CONFIDENTIAL)	GLC	PART NUMBER - E56418861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.500 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 19.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 71.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 238.5 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
MAZDA	84	ETK1 5V2HFF8 (b)/ 1.5L / (CONFIDENTIAL)	GLC LASER	PART NUMBER - E56518861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.000 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 62.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 237.0 mm
MAZDA	84	ETK2 0V2HFF7 (b)/ 2.0L / (CONFIDENTIAL)	626	PART NUMBER - E56418861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.500 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 19.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 71.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 238.5 mm
MAZDA	84	ETK2 0V2HGGK (b)/ 2.0L / (CONFIDENTIAL)	626	PART NUMBER - E56518861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.000 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 62.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 237.0 mm
MAZDA	84	ETK2 0V2HGGK (b)/ 2.0L / (CONFIDENTIAL)	626	PART NUMBER - E56318861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.500 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 19.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 71.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 438.5 mm
MAZDA	84	ETK2 0V2HGGK (b)/ 2.0L / (CONFIDENTIAL)	626	PART NUMBER - FE0518861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.000 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 62.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 447.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
MAZDA	85	FTK1.3VSHFD7 / 1.3L / (CONFIDENTIAL)	RX-7	PART NUMBER - N30418861 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - INSPECTION ONLY RETAIL PRICE - \$119.00 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.7 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.500 mm SENSOR LENGTH BELOW THREADS - 19.000 mm SENSOR LENGTH ABOVE THREADS - 71.000 mm LENGTH OF WIRE(S) - 238.0 mm
MAZDA	85	FTK1.5V2HOG3 (b) / 1.5L / (CONFIDENTIAL)	GLC	PART NUMBER - E56418861 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - INSPECTION ONLY RETAIL PRICE - \$119.00 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.7 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.500 mm SENSOR LENGTH BELOW THREADS - 19.000 mm SENSOR LENGTH ABOVE THREADS - 71.000 mm LENGTH OF WIRE(S) - 238.5 mm
				PART NUMBER - E56518861 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - INSPECTION ONLY RETAIL PRICE - \$119.00 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.7 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 62.000 mm LENGTH OF WIRE(S) - 237.0 mm
MAZDA	85	FTK1.5V2HFF8 (b) / 1.5L / (CONFIDENTIAL)	GLC LASER	PART NUMBER - E56418861 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - INSPECTION ONLY RETAIL PRICE - \$119.00 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.7 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.500 mm SENSOR LENGTH BELOW THREADS - 19.000 mm SENSOR LENGTH ABOVE THREADS - 71.000 mm LENGTH OF WIRE(S) - 238.5 mm
				PART NUMBER - E56518861 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - INSPECTION ONLY RETAIL PRICE - \$119.00 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.7 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 62.000 mm LENGTH OF WIRE(S) - 237.0 mm
MAZDA	85	FTK2.0V2HFF7 (b) / 2.0L / (CONFIDENTIAL)	626	PART NUMBER - E56318861 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - INSPECTION ONLY RETAIL PRICE - \$119.00 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.7 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.500 mm SENSOR LENGTH BELOW THREADS - 19.000 mm SENSOR LENGTH ABOVE THREADS - 71.000 mm LENGTH OF WIRE(S) - 438.5 mm
				PART NUMBER - FE0518861 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - INSPECTION ONLY RETAIL PRICE - \$119.00 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.2 TO 0.7 SWITCH POINT - 14.70 SPLASH PROTECTION - MODERATE NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 62.000 mm LENGTH OF WIRE(S) - 447.0 mm

(continued)

- (a) Number of vehicles sold with given engine family.
(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
MAZDA	85	FTK2 0V2HGGK (b)/ 2.0L / (CONFIDENTIAL)	626	PART NUMBER - E56318861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.500 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 19.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 71.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 438.5 mm
				PART NUMBER - FE0518861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.000 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 62.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 447.0 mm
MAZDA	86	GTK1 3V5HFD8 / 1.3L / (CONFIDENTIAL)	RX-7	PART NUMBER - N32618861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.500 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 19.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 57.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 242.0 mm
MAZDA	86	GTK1 6V5FAF1 / 1.6L / (CONFIDENTIAL)	323	PART NUMBER - B60118861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 8.000 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 19.500 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 69.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 440.0 mm
MAZDA	86	GTK2 0T2HDM3 / 2.0L / (CONFIDENTIAL)	B2000	PART NUMBER - FE2618861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.000 mm
				CHANGE INTERVAL - 60000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$122.65	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 62.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 897.0 mm
MAZDA	86	GTK2 0T2HFL8 / 2.0L / (CONFIDENTIAL)	B2000	PART NUMBER - FE2618861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.000 mm
				CHANGE INTERVAL - 60000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$122.65	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 62.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 897.0 mm
MAZDA	86	GTK2 0V5FAJ1 (b)/ 2.0L / (CONFIDENTIAL)	626	PART NUMBER - FEH118861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.000 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 52.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 457.0 mm

(cont:rued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
MAZDA	86	GTK2 DV5FFJD (b) / 2.0L / (CONFIDENTIAL)	626	PART NUMBER - FEH218861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.500 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 19.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 57.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 452.0 mm
				PART NUMBER - FEH118861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.000 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 20.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 52.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 457.0 mm
				PART NUMBER - FEH218861	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - 18mm X 1.5mm
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.2 TO 0.7	THREAD LENGTH - 7.500 mm
				CHANGE INTERVAL - INSPECTION ONLY	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 19.000 mm
				RETAIL PRICE - \$119.00	SPLASH PROTECTION - MODERATE	SENSOR LENGTH ABOVE THREADS - 57.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 452.0 mm
TOYOTA	80	4M-E / 2.6L / (CONFIDENTIAL)	CRESSIDA SUPRA	PART NUMBER - 89465-19026	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - FLANGE TYPE
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - NOT SPECIFIED
				CHANGE INTERVAL - 30000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 29.500 mm
				RETAIL PRICE - \$ 79.85	SPLASH PROTECTION - SEVERE	SENSOR LENGTH ABOVE THREADS - 91.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 516.5 mm
TOYOTA	81	BTY1 5V2EC1 / 1.5L / (CONFIDENTIAL)	COROLLA TERCEL	PART NUMBER - 89465-29045	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - FLANGE TYPE
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - NOT SPECIFIED
				CHANGE INTERVAL - NOT SPECIFIED	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 29.500 mm
				RETAIL PRICE - \$ 79.85	SPLASH PROTECTION - SEVERE	SENSOR LENGTH ABOVE THREADS - 90.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 212.0 mm
TOYOTA	81	BTY1 8V2FC7 / 1.8L / (CONFIDENTIAL)	COROLLA COROLLA WAGON	PART NUMBER - 89465-19055	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - FLANGE TYPE
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - NOT SPECIFIED
				CHANGE INTERVAL - 60000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 29.500 mm
				RETAIL PRICE - \$ 79.85	SPLASH PROTECTION - SEVERE	SENSOR LENGTH ABOVE THREADS - 90.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 212.0 mm
TOYOTA	81	BTY1 8V2HF3 / 1.8L / (CONFIDENTIAL)	COROLLA COROLLA WAGON	PART NUMBER - 89465-19055	SENSOR MATERIAL - ZIRCONIA	THREAD SIZE - FLANGE TYPE
				SENSOR TYPE - NON-HEATED	VOLTAGE LIMITS - 0.0 TO 1.0	THREAD LENGTH - NOT SPECIFIED
				CHANGE INTERVAL - 60000 MILES	SWITCH POINT - 14.70	SENSOR LENGTH BELOW THREADS - 29.500 mm
				RETAIL PRICE - \$ 79.85	SPLASH PROTECTION - SEVERE	SENSOR LENGTH ABOVE THREADS - 90.000 mm
				CONNECTOR TYPE - MALE	NUMBER OF WIRE(S) - 1	LENGTH OF WIRE(S) - 212.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
TOYOTA	81	BY2 4T2EH7 / 2.4L / (CONFIDENTIAL)	3/4 TON 2WD TRUCK 2WD TRUCK 4WD	PART NUMBER - 89465-29045 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 212.0 mm
TOYOTA	81	BY2 4V2EC3 / 2.4L / (CONFIDENTIAL)	CELICA CORONA CORONA WAGON	PART NUMBER - 89465-29045 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 212.0 mm
TOYOTA	81	BY2 4V2EF6 / 2.4L / (CONFIDENTIAL)	CELICA CORONA CORONA WAGON	PART NUMBER - 89465-29045 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 212.0 mm
TOYOTA	81	BY2 8V5B4 / 2.8L / (CONFIDENTIAL)	CELICA SUPRA CRESSIDA CRESSIDA WAGON	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 362.0 mm
TOYOTA	82	CTY1 5V2EC9 / 1.5L FI / (CONFIDENTIAL)	COROLLA TERCEL	PART NUMBER - 89465-29045 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 212.0 mm
TOYOTA	82	CTY1 8V2FC8 / 1.8L / (CONFIDENTIAL)	COROLLA COROLLA WAGON	PART NUMBER - 89465-19055 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 212.0 mm
TOYOTA	82	CTY1 8V2HF1 / 1.8L / (CONFIDENTIAL)	COROLLA COROLLA WAGON	PART NUMBER - 89465-19055 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 212.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA					
				GENERAL CHARACTERISTICS		CONSTRUCTIONAL CHARACTERISTICS		DIMENSIONAL CHARACTERISTICS	
TOYOTA	82	CTY2.4T2EBB9 / 2.4L / (CONFIDENTIAL)	3/4 TON TRUCK 2 CAB CHASSIS TRUCK 2WD TRUCK 4WD	PART NUMBER - 89465-29045 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1.0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29 500 mm SENSOR LENGTH ABOVE THREADS - 90 000 mm LENGTH OF WIRE(S) - 212 0 mm			
TOYOTA	82	CTY2.4V2EDCO / 2.4L / (CONFIDENTIAL)	CELICA CORONA CORONA WAGON	PART NUMBER - 89465-29045 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1.0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29 500 mm SENSOR LENGTH ABOVE THREADS - 90 000 mm LENGTH OF WIRE(S) - 212 0 mm			
TOYOTA	82	CTY2.4V2EFF9 / 2.4L / (CONFIDENTIAL)	CELICA CORONA CORONA WAGON	PART NUMBER - 89465-29045 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1.0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29 500 mm SENSOR LENGTH ABOVE THREADS - 90 000 mm LENGTH OF WIRE(S) - 212 0 mm			
TOYOTA	82	CTY2.8V5HBB9 / 2.8L FI / (CONFIDENTIAL)	CRESSIDA CRESSIDA WAGON	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1.0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29 500 mm SENSOR LENGTH ABOVE THREADS - 90 000 mm LENGTH OF WIRE(S) - 362.0 mm			
TOYOTA	82	CTY2.8V5HBG3 / 2.8L FI, DOHC / (CONFIDENTIAL)	CELICA SUPRA	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1.0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90 000 mm LENGTH OF WIRE(S) - 362 0 mm			
TOYOTA	83	DTY1.3V5FBBX / 1.3L FI / (CONFIDENTIAL)	STARLET	PART NUMBER - 89465-19055 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 212.0 mm			
TOYOTA	83	DTY1.6V2FCC8 / 1.5L / (CONFIDENTIAL)	COROLLA COROLLA WAGON TERCEL TERCEL WAGON 4W	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1.0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 362.0 mm			

(cont:rued)

- (a) Number of vehicles sold with given engine family.
(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA				
				GENERAL CHARACTERISTICS		CONSTRUCTIONAL CHARACTERISTICS		DIMENSIONAL CHARACTERISTICS
TOYOTA	83	DTY1 6V2HFF1 / 1.5L / (CONFIDENTIAL)	COROLLA COROLLA WAGON TERCEL TERCEL WAGON 4W	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - THREAD LENGTH - SENSOR LENGTH BELOW THREADS - SENSOR LENGTH ABOVE THREADS - LENGTH OF WIRE(S) -	FLANGE TYPE - NOT SPECIFIED - 29.500 mm - 90.000 mm - 362.0 mm -	
TOYOTA	83	DTY2 0V5FBB0 / 2.0L FI / (CONFIDENTIAL)	CAMRY	PART NUMBER - 89465-39105 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - THREAD LENGTH - SENSOR LENGTH BELOW THREADS - SENSOR LENGTH ABOVE THREADS - LENGTH OF WIRE(S) -	FLANGE TYPE - NOT SPECIFIED - 29.500 mm - 65.000 mm - 387.0 mm -	
TOYOTA	83	DTY2 4T2EBBx / 2.4L / (CONFIDENTIAL)	CAB CHASSIS TRUCK 2WD TRUCK 4WD	PART NUMBER - 89465-29045 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - THREAD LENGTH - SENSOR LENGTH BELOW THREADS - SENSOR LENGTH ABOVE THREADS - LENGTH OF WIRE(S) -	FLANGE TYPE - NOT SPECIFIED - 29.500 mm - 90.000 mm - 212.0 mm -	
TOYOTA	83	DTY2 4V2EBB9 / 2.4L / (CONFIDENTIAL)	CELICA	PART NUMBER - 89465-29045 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - THREAD LENGTH - SENSOR LENGTH BELOW THREADS - SENSOR LENGTH ABOVE THREADS - LENGTH OF WIRE(S) -	FLANGE TYPE - NOT SPECIFIED - 29.500 mm - 90.000 mm - 212.0 mm -	
TOYOTA	83	DTY2.4V5FBB2 / 2.4L / (CONFIDENTIAL)	CELICA	PART NUMBER - 89465-19055 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - THREAD LENGTH - SENSOR LENGTH BELOW THREADS - SENSOR LENGTH ABOVE THREADS - LENGTH OF WIRE(S) -	FLANGE TYPE - NOT SPECIFIED - 29.500 mm - 90.000 mm - 212.0 mm -	
TOYOTA	83	DTY2.8V5FBB4 / 2.8L FI, DOHC / (CONFIDENTIAL)	CELICA SUPRA CRESSIDA CRESSIDA WAGON	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - THREAD LENGTH - SENSOR LENGTH BELOW THREADS - SENSOR LENGTH ABOVE THREADS - LENGTH OF WIRE(S) -	FLANGE TYPE - NOT SPECIFIED - 29.500 mm - 90.000 mm - 362.0 mm -	
TOYOTA	84	ETY1 6V2FCC9 / 1.5L / (CONFIDENTIAL)	COROLLA COROLLA SPORT TERCEL TERCEL WAGON TERCEL WAGON 4W	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - THREAD LENGTH - SENSOR LENGTH BELOW THREADS - SENSOR LENGTH ABOVE THREADS - LENGTH OF WIRE(S) -	FLANGE TYPE - NOT SPECIFIED - 29.500 mm - 90.000 mm - 362.0 mm -	

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA				
				GENERAL CHARACTERISTICS		CONSTRUCTIONAL CHARACTERISTICS		DIMENSIONAL CHARACTERISTICS
TOYOTA	84	ET1.6V2HFZ / 1.5L / (CONFIDENTIAL)	COROLLA COROLLA SPORT TERCEL TERCEL WAGON TERCEL WAGON 4W	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 362.0 mm		
TOYOTA	84	ET2.0T5FBB2 / 2.0L FI / (CONFIDENTIAL)	CARGO VAN 2WD VAN 2WD	PART NUMBER - 89465-19055 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 212.0 mm		
TOYOTA	84	ET2.0V5FBB1 / 2.0L / (CONFIDENTIAL)	CAMRY	PART NUMBER - 89465-39105 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 65.000 mm LENGTH OF WIRE(S) - 387.0 mm		
TOYOTA	84	ET2.4T2EBB0 / 2.4L / (CONFIDENTIAL)	4-RUNNER 4WD CAB CHASSIS 2WD TRUCK 2WD TRUCK 4WD	PART NUMBER - 89465-29045 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 212.0 mm		
TOYOTA	84	ET2.4T5FBB4 / 2.4L / (CONFIDENTIAL)	TRUCK 2WD	PART NUMBER - 89465-19055 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 212.0 mm		
TOYOTA	84	ET2.4V5FBB3 / 2.4L / (CONFIDENTIAL)	CELICA	PART NUMBER - 89465-19055 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 212.0 mm		
TOYOTA	84	ET2.8V5FBB5 / 2.8L FI, DOHC / (CONFIDENTIAL)	CELICA SUPRA CRESSIDA CRESSIDA WAGON	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 362.0 mm		

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA				
				GENERAL CHARACTERISTICS		CONSTRUCTIONAL CHARACTERISTICS		DIMENSIONAL CHARACTERISTICS
TOYOTA	85	ETV1 6V2FC09 / 1.5L / (CONFIDENTIAL)	TERCEL TERCEL WAGON 2W TERCEL WAGON 4W	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79 85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1.0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 362.0 mm		
TOYOTA	85	FTY1 6V2FC0X / 1.6L / (CONFIDENTIAL)	COROLLA COROLLA SPORT TERCEL TERCEL WAGON TERCEL WAGON 4W	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79 85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 362.0 mm		
TOYOTA	85	FTY1 6V2HF3 / 1 6L / (CONFIDENTIAL)	COROLLA COROLLA SPORT TERCEL TERCEL WAGON TERCEL WAGON 4W	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79 85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 362.0 mm		
TOYOTA	85	FTY1 6V5FB88 (b)/ 1 6L 16V, DOHC / (CONFIDENTIAL)	COROLLA SPORT MR2	PART NUMBER - 89465-29045 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79 85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 212.0 mm		
				PART NUMBER - 89465-19135 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79 85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 362.0 mm		
TOYOTA	85	FTY2 0T5FB83 / 2 0L FI / (CONFIDENTIAL)	CARGO VAN 2WD VAN 2WD	PART NUMBER - 89465-19055 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79 85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 212.0 mm		
TOYOTA	85	FTY2 0V5FB82 / 2 0L FI / (CONFIDENTIAL)	CAMRY	PART NUMBER - 89465-39105 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79 85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1.0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 65.000 mm LENGTH OF WIRE(S) - 387.0 mm		

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA			
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS	
TOYOTA	85	FTY2 4T2FC7 / 2.4L / (CONFIDENTIAL)	TRUCK 2WD TRUCK 4WD	PART NUMBER - 89465-19055 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79 85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29 500 mm SENSOR LENGTH ABOVE THREADS - 90 000 mm LENGTH OF WIRE(S) - 212 0 mm	
TOYOTA	85	FTY2 4T5FB85 / 2.4L / (CONFIDENTIAL)	1-TON TRUCK 2WD 4-RUNNER 4WD CAB CHASSIS 2WD TRUCK 2WD TRUCK 4WD	PART NUMBER - 89465-19055 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90 000 mm LENGTH OF WIRE(S) - 212 0 mm	
TOYOTA	85	FTY2 4V5FB84 / 2.4L / (CONFIDENTIAL)		PART NUMBER - 89465-19055 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79 85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29 500 mm SENSOR LENGTH ABOVE THREADS - 90 000 mm LENGTH OF WIRE(S) - 212 0 mm	
TOYOTA	85	FTY2 8V5FB86 / 2.8L FI, DOHC / (CONFIDENTIAL)	CELICA SUPRA CRESSIDA CRESSIDA WAGON	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79 85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29 500 mm SENSOR LENGTH ABOVE THREADS - 90 000 mm LENGTH OF WIRE(S) - 362.0 mm	
TOYOTA	86	GTY1 6V2FC00 / 1.5L / (CONFIDENTIAL)	COROLLA COROLLA SPORT TERCEL TERCEL WAGON 2W TERCEL WAGON 4W	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79 85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29 500 mm SENSOR LENGTH ABOVE THREADS - 90 000 mm LENGTH OF WIRE(S) - 362.0 mm	
TOYOTA	86	GTY1 6V2HF4 / 1.5L / (CONFIDENTIAL)	COROLLA COROLLA SPORT TERCEL TERCEL WAGON 2W TERCEL WAGON 4W	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90.000 mm LENGTH OF WIRE(S) - 362.0 mm	
TOYOTA	86	GTY1 6V5FB89 (b)/ 9 GL 16V, DOHC / (CONFIDENTIAL)	COROLLA SPORT MR2	PART NUMBER - 89465-29045 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79 85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0 0 TO 1 0 SWITCH POINT - 14 70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - FLANGE TYPE THREAD LENGTH - NOT SPECIFIED SENSOR LENGTH BELOW THREADS - 29.500 mm SENSOR LENGTH ABOVE THREADS - 90 000 mm LENGTH OF WIRE(S) - 212 0 mm	

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA					
				GENERAL CHARACTERISTICS		CONSTRUCTIONAL CHARACTERISTICS		DIMENSIONAL CHARACTERISTICS	
TOYOTA	86	GT2 0V5FB83 / 2 QL FI / (CONFIDENTIAL)	CAMRY CELICA	PART NUMBER	- 89465-19135	SENSOR MATERIAL	- ZIRCONIA	THREAD SIZE	- FLANGE TYPE
				SENSOR TYPE	- NON-HEATED	VOLTAGE LIMITS	- 0 0 TO 1 0	THREAD LENGTH	- NOT SPECIFIED
TOYOTA	86	GT2 0V5FB88 / 2 QL 16V, DOHC / (CONFIDENTIAL)	CELICA	CHANGE INTERVAL	- NOT SPECIFIED	SWITCH POINT	- 14.70	SENSOR LENGTH BELOW THREADS	- 29.500 mm
				RETAIL PRICE	- \$ 79.85	SPLASH PROTECTION	- SEVERE	SENSOR LENGTH ABOVE THREADS	- 90.000 mm
TOYOTA	86	GT2 0V5FBH9 / 2 QL 16V, DOHC / (CONFIDENTIAL)	CELICA	CONNECTOR TYPE	- MALE	NUMBER OF WIRE(S)	- 1	LENGTH OF WIRE(S)	- 362.0 mm
				PART NUMBER	- 89465-39105	SENSOR MATERIAL	- ZIRCONIA	THREAD SIZE	- FLANGE TYPE
TOYOTA	86	GT2 2T5FB85 / 2 2L FI / (CONFIDENTIAL)	CARGO VAN 2WD VAN 2WD	SENSOR TYPE	- NON-HEATED	VOLTAGE LIMITS	- 0 0 TO 1.0	THREAD LENGTH	- NOT SPECIFIED
				CHANGE INTERVAL	- 60000 MILES	SWITCH POINT	- 14.70	SENSOR LENGTH BELOW THREADS	- 29.500 mm
TOYOTA	86	GT2 4T2F0C8 / 2 4L / (CONFIDENTIAL)	TRUCK 2WD TRUCK 4WD	RETAIL PRICE	- \$ 79.85	SPLASH PROTECTION	- SEVERE	SENSOR LENGTH ABOVE THREADS	- 90.000 mm
				CONNECTOR TYPE	- MALE	NUMBER OF WIRE(S)	- 1	LENGTH OF WIRE(S)	- 212.0 mm
TOYOTA	86	GT2 4T5FB86 / 2 4L / (CONFIDENTIAL)	1-TON TRUCK 2WD 4-RUNNER 4WD CAB/CHASSIS TRUCK 2WD TRUCK 4WD	PART NUMBER	- 89465-19055	SENSOR MATERIAL	- ZIRCONIA	THREAD SIZE	- FLANGE TYPE
				SENSOR TYPE	- NON-HEATED	VOLTAGE LIMITS	- 0 0 TO 1.0	THREAD LENGTH	- NOT SPECIFIED
TOYOTA	86	GT2 4T5FB86 / 2 4L / (CONFIDENTIAL)	1-TON TRUCK 2WD 4-RUNNER 4WD CAB/CHASSIS TRUCK 2WD TRUCK 4WD	CHANGE INTERVAL	- 60000 MILES	SWITCH POINT	- 14.70	SENSOR LENGTH BELOW THREADS	- 29.500 mm
				RETAIL PRICE	- \$ 79.85	SPLASH PROTECTION	- SEVERE	SENSOR LENGTH ABOVE THREADS	- 90.000 mm
TOYOTA	86	GT2 4T5FB86 / 2 4L / (CONFIDENTIAL)	1-TON TRUCK 2WD 4-RUNNER 4WD CAB/CHASSIS TRUCK 2WD TRUCK 4WD	CONNECTOR TYPE	- MALE	NUMBER OF WIRE(S)	- 1	LENGTH OF WIRE(S)	- 212.0 mm
				PART NUMBER	- 89465-19055	SENSOR MATERIAL	- ZIRCONIA	THREAD SIZE	- FLANGE TYPE
TOYOTA	86	GT2 4T5FB86 / 2 4L / (CONFIDENTIAL)	1-TON TRUCK 2WD 4-RUNNER 4WD CAB/CHASSIS TRUCK 2WD TRUCK 4WD	SENSOR TYPE	- NON-HEATED	VOLTAGE LIMITS	- 0 0 TO 1.0	THREAD LENGTH	- NOT SPECIFIED
				CHANGE INTERVAL	- 60000 MILES	SWITCH POINT	- 14.70	SENSOR LENGTH BELOW THREADS	- 29.500 mm
TOYOTA	86	GT2 4T5FB86 / 2 4L / (CONFIDENTIAL)	1-TON TRUCK 2WD 4-RUNNER 4WD CAB/CHASSIS TRUCK 2WD TRUCK 4WD	RETAIL PRICE	- \$ 79.85	SPLASH PROTECTION	- SEVERE	SENSOR LENGTH ABOVE THREADS	- 90.000 mm
				CONNECTOR TYPE	- MALE	NUMBER OF WIRE(S)	- 1	LENGTH OF WIRE(S)	- 212.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA					
				GENERAL CHARACTERISTICS		CONSTRUCTIONAL CHARACTERISTICS		DIMENSIONAL CHARACTERISTICS	
TOYOTA	86	GT2.4T5FBT7 / 2.4L TURBO / (CONFIDENTIAL)	4-RUNNER 4WD TRUCK 2WD TRUCK 4WD	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - NOT SPECIFIED THREAD LENGTH - 29.500 mm SENSOR LENGTH BELOW THREADS - 90.000 mm SENSOR LENGTH ABOVE THREADS - 362.0 mm	FLANGE TYPE - NOT SPECIFIED		
TOYOTA	86	GT2.8V5FBB7 / 2.8L / (CONFIDENTIAL)	CELICA SUPRA CRESSIDA CRESSIDA WAGON	PART NUMBER - 89465-29075 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - 60000 MILES RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - NOT SPECIFIED THREAD LENGTH - 29.500 mm SENSOR LENGTH BELOW THREADS - 90.000 mm SENSOR LENGTH ABOVE THREADS - 362.0 mm	FLANGE TYPE - NOT SPECIFIED		
TOYOTA	86	GT3.0V5FBB0 / 3.0L 24V, DOHC / (CONFIDENTIAL)	SUPRA	PART NUMBER - 89465-19155 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 79.85 CONNECTOR TYPE - MALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - SEVERE NUMBER OF WIRE(S) - 1	THREAD SIZE - NOT SPECIFIED THREAD LENGTH - 29.500 mm SENSOR LENGTH BELOW THREADS - 90.000 mm SENSOR LENGTH ABOVE THREADS - 212.0 mm	FLANGE TYPE - NOT SPECIFIED		
VOLKSWAGON	81	BW1.7V6FC83 / 1.7L / (CONFIDENTIAL)	JETTA RABBIT SCIROCCO	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm			
VOLKSWAGON	81	BW1.7V6FF53 / 1.7L / (CONFIDENTIAL)	JETTA RABBIT SCIROCCO	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm			
VOLKSWAGON	82	CW1.7V1FAB6 / 1.7L / (CONFIDENTIAL)	RABBIT	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm			
VOLKSWAGON	82	CW1.7V6FAC5 / 1.7L / (CONFIDENTIAL)	JETTA RABBIT	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm			

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
VOLKSWAGON	82	CW1 7V6FAF8 / 1.7L / (CONFIDENTIAL)	JETTA RABBIT	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	82	CW1 7V6FBFX / 1.7L / (CONFIDENTIAL)	QUANTUM QUANTUM WAGON	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	82	CW1 7V6FSC7 / 1.7L / (CONFIDENTIAL)	SCIROCCO	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	82	CW1 7V6FSFX / 1.7L / (CONFIDENTIAL)	SCIROCCO	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	83	DW1 7V1FAB7 / 1.7L / (CONFIDENTIAL)	RABBIT	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	83	DW1 7V6FAC6 / 1.7L / (CONFIDENTIAL)	JETTA QUANTUM QUANTUM WAGON RABBIT RABBIT CONVERTI SCIROCCO	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	83	DW1 7V6FAP9 / 1.7L / (CONFIDENTIAL)	JETTA QUANTUM QUANTUM WAGON RABBIT RABBIT CONVERTI	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
			SCIROCCO			
VOLKSWAGON	83	DW1.8V6FAAX / 1.8L / (CONFIDENTIAL)	RABBIT SCIROCCO	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	84	DW1.7V6FAC6 / 1.7L / (CONFIDENTIAL)	JETTA RABBIT	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	84	EW1.7V1FAB8 / 1.7L / (CONFIDENTIAL)	RABBIT	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	84	EW1.7V6FAFX / 1.7L / (CONFIDENTIAL)	JETTA RABBIT	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	84	EW1.8V6FAC2 / 1.8L / (CONFIDENTIAL)	RABBIT	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	84	EW1.8V6FAF5 / 1.8L / (CONFIDENTIAL)	JETTA RABBIT CONVERTI SCIROCCO	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	84	EW1.9T5CAV2 / 1.9L / (CONFIDENTIAL)	VANAGON 2WD	PART NUMBER - 025906265 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.45 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 21.000 mm SENSOR LENGTH ABOVE THREADS - 58.000 mm LENGTH OF WIRE(S) - 365.0 mm

(continued)

(a) Number of vehicles sold with given engine family

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
VOLKSWAGON	84	EW2.2V6FBF1 / 2.1L / (CONFIDENTIAL)	QUANTUM QUANTUM WAGON	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	85	EW1.8V6FAF5 / 1.8L / (CONFIDENTIAL)	CABRIOLET SCIROCCO	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	85	EW1.9T5CVA2 / 1.9L / (CONFIDENTIAL)	VANAGON 2WD	PART NUMBER - 025906265 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.45 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 21.000 mm SENSOR LENGTH ABOVE THREADS - 58.000 mm LENGTH OF WIRE(S) - 365.0 mm
VOLKSWAGON	85	FW1.8V6FAC3 / 1.8L / (CONFIDENTIAL)	GOLF/GTI JETTA	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	85	FW1.8V6FCA4 / 1.8L / (CONFIDENTIAL)	GOLF/GTI JETTA	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	85	FW1.9T5CVF8 / 1.9L / (CONFIDENTIAL)	VANAGON 2WD	PART NUMBER - 025906265 SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 94.45 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 21.000 mm SENSOR LENGTH ABOVE THREADS - 58.000 mm LENGTH OF WIRE(S) - 365.0 mm
VOLKSWAGON	85	FW2.2V6FBCK / 2.2L / (CONFIDENTIAL)	QUANTUM	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm

(continued)

(a) Number of vehicles sold with given engine family.

(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 1

VEHICLE MANUFACTURER	MODEL YEAR	ENGINE FAMILY / ENGINE DESCRIPTION / (SALES) (a)	VEHICLE MODELS	OEM OXYGEN SENSOR DATA		
				GENERAL CHARACTERISTICS	CONSTRUCTIONAL CHARACTERISTICS	DIMENSIONAL CHARACTERISTICS
VOLKSWAGON	86	GW1 8V6FAC4 / 1.8L / (CONFIDENTIAL)	GOLF JETTA	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	86	GW1 8V6FAF7 / 1.8L / (CONFIDENTIAL)	GOLF JETTA	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	86	GW1 8V6FGA3 / 1.8L / (CONFIDENTIAL)	GTI JETTA GLI	PART NUMBER - 034906265C SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$118.50 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 6.500 mm SENSOR LENGTH BELOW THREADS - 18.000 mm SENSOR LENGTH ABOVE THREADS - 68.000 mm LENGTH OF WIRE(S) - 850.0 mm
VOLKSWAGON	86	GW1 8V6FSC6 / 1.8L / (CONFIDENTIAL)	CABRIOLET SCIROCCO	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	86	GW1 8V6FSF9 / 1.8L / (CONFIDENTIAL)	CABRIOLET SCIROCCO	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm
VOLKSWAGON	86	GW2.1T3CVAB / 2.1L / (CONFIDENTIAL)	SCIROCCO 16V VANAGON 2wd	PART NUMBER - 025906265B SENSOR TYPE - HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$108.50 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 3	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 19.000 mm SENSOR LENGTH ABOVE THREADS - 70.000 mm LENGTH OF WIRE(S) - 535.0 mm
VOLKSWAGON	86	GW2 2V6FBF3 / 2.2L / (CONFIDENTIAL)	QUANTUM QUANTUM WAGON	PART NUMBER - 035906265B SENSOR TYPE - NON-HEATED CHANGE INTERVAL - NOT SPECIFIED RETAIL PRICE - \$ 54.95 CONNECTOR TYPE - FEMALE	SENSOR MATERIAL - ZIRCONIA VOLTAGE LIMITS - 0.0 TO 1.0 SWITCH POINT - 14.70 SPLASH PROTECTION - NOT SPECIFIED NUMBER OF WIRE(S) - 1	THREAD SIZE - 18mm X 1.5mm THREAD LENGTH - 7.000 mm SENSOR LENGTH BELOW THREADS - 20.000 mm SENSOR LENGTH ABOVE THREADS - 75.000 mm LENGTH OF WIRE(S) - 366.0 mm

(continued)

- (a) Number of vehicles sold with given engine family
(b) More than one oxygen sensor part number can be used with this engine family.

TABLE 2

VEHICLE MANUFACTURER	OEM SENSOR PART NUMBER	TOTAL SALES VOLUME (a)	RETAIL PRICE (b)	RECOMMENDED CHANGE OUT INTERVAL	AFTERMARKET SENSOR DATA			OEM SENSOR APPLICATIONS		
					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
AMC/JEEP	7700708955	15,077	\$140.00	NOT SPECIFIED	FRAM	Q2821	\$ 64.84	83	DAM1.4V5FGD5	ALLIANCE
					AC_DELCO	213-7	\$ 50.30			
					NITE-OFF	FE805	\$ 52.01	84	EAM1.4V5FLD5	ALLIANCE/ENCORE
					BORG WARNER	OS105	\$ 55.64			
					ECHLIN	OS400	\$ 64.10			
STANDARD	SG9	\$ 61.73								
AMC/JEEP	8933002455	843,689	\$ 37.70	50,000 MILES	FRAM	Q2784	\$ 64.84	81 (c)	BAM258V2HP7	ALLIANCE
					FRAM	Q2820	\$ 59.33			
					FRAM	Q2821	\$ 64.84	82	CAM258V2HE50	ALLIANCE/ENCORE
					AC_DELCO	213-7	\$ 50.30			
					NITE-OFF	FE805	\$ 52.01	83	DAM1.4V5FLD8	CHEROKEE/WAGONE
					BORG WARNER	OS105	\$ 55.64			
					ECHLIN	OS400	\$ 64.10	83	DAM258V2HEBX	CHEROKEE/WAGONE
					STANDARD	SG1	\$ 62.90			
								84	DAM258V2HD46	CJ-5/CJ-7 4WD
								84	EAM1.4V5FFA1	CJ-7 4WD
								84	EAM150T1HEA5	CONCORD
								84	EAM258V2HEA8	CONCORD WAGON
								85	EAM1.4V5FFA1	DJ PO VEHICLE 2
			85	FAM1.7V5FGA0	EAGLE 4WD					
			85	FAM2.5T1HEA5	EAGLE SX/4 4WD					
			86	GAM1.4V5FFA3	EAGLE KMEK: SX/4					
			86	GAM1.7V5FGA1	FJ-8C P.O. VEHIC					
			86	GAM2.5T1HEA6	GRAND WAGONER					
			86	GAM4.2T2HEA8	J-10 PICKUP 4WD					
					SCRAMBLER					
					SCRAMBLER PICKU					
					SPIRIT					
					XJ					
					XJ-2WD					
AMC/JEEP	8953000886	CONFIDENTIAL (e)	\$ 45.00	NOT SPECIFIED	FRAM	Q2820	\$ 59.33	85	FAM1.73T2F4C3	XJ
					STANDARD	SG5	\$ 59.93			
CHRYSLER CORP.	4301346	827,213	\$ 37.98	50,000 MILES	FRAM	Q2747	\$ 52.86	84 (c)	EDR2.2V2HAC4 (d)	600
					FRAM	Q2769	\$ 52.86			
					AC_DELCO	213-6	\$ 50.25	84	EDR2.2V5HCF1 (d)	600 ONVT
					NITE-OFF	FE804	\$ 46.81			
					BORG WARNER	OS101	\$ 50.10	84	EDR3.7T1HEJ1 (d)	600 CONVERTIBLE
					ECHLIN	OS300	\$ 57.67			
			84	EDR5.2T2HEM0 (d)	AD150 RANCHRGR					
			84	EDR5.2T2HEM5 (d)	AD150 RANCHRGR					
					ARTES					

(continued)

- (a) Based on engine family sales data. Oxygen sensor sales data have been split equally when multiple part numbers can be applied to the same engine family.
(b) Manufacturer suggested retail price. Actual price may vary.
(c) This listing uses a compressed format. Models and engine families no longer have one on one relationship
(d) More than one oxygen sensor part number can be used with this engine family
(e) Engine family sales data are confidential therefore oxygen sensor sales cannot be listed when the sensor is used by only one engine family.

TABLE 2

VEHICLE MANUFACTURER	OEM SENSOR PART NUMBER	TOTAL SALES VOLUME (a)	RETAIL PRICE (b)	RECOMMENDED CHANGE OUT INTERVAL	AFTERMARKET SENSOR DATA			OEM SENSOR APPLICATIONS		
					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
CHRYSLER CORP	4301346	(continued)			STANDARD	SG6	\$ 59 93	84	ECR5 2V2HAPX (d)	ARIES WAGON
								84	ECR5 2V2HCK9 (d)	AW150 RANCHRGR
								84	ECR5 2V4HAT3 (d)	AW150 RANCHRGR
								85	FCR1 6V2HDFB (d)	B150/250 WAGON
								85	FCR2 2V5FAA9	B150/B250 VAN
								85	FCR2 2V5FABX	B150/B250 VAN 2
								86	GCR2 2V5FAAX	B150/B250 WGN
								86	GCR2 2V5FAB0	B350 VAN 2WD
										B350 WAGON 2WD
										CARAVELLE
										CHARGER
										D100 2WD
										D100/D150 P/U
										D150 2WD
										D150 P/U 2WD
										D250 P/U 2WD
										DAYTONA
										DIPLOMAT
										E CLASS/NEW YOR
										GRAN FURY
										HORIZON
										LANCER
										LASER
										LASER/DAYTONA
										LEBARON
										LEBARON CONVERT
										LEBARON GTS
										LIMOUSINE
										LeBARON
										LeBARON CONV.
										LeBARON GTS
										NEW YORKER
										NEWPORT/FIFTH A
										OMNI
										RELIANT
										RELIANT WAGON
										TOWN & COUNTRY
										TURISMO
										W100/W150 P/U
										W150 P/U 4WD

(continued)

- (a) Based on engine family sales data. Oxygen sensor sales data have been split equally when multiple part numbers can be applied to the same engine family.
- (b) Manufacturer suggested retail price. Actual price may vary.
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- (d) More than one oxygen sensor part number can be used with this engine family.

TABLE 2

VEHICLE MANUFACTURER	OEM SENSOR PART NUMBER	TOTAL SALES VOLUME (a)	RETAIL PRICE (b)	RECOMMENDED CHANGE OUT INTERVAL	AFTERMARKET SENSOR DATA			OEM SENSOR APPLICATIONS			
					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED	
CHRYSLER CORP.	4301346	(continued)									
CHRYSLER CORP	4301375	3,864,860	\$ 41.50	50,000 MILES	FRAM	02747	\$ 52.86	80 (c)	008-105-2-CLP		W250 P/U 4wd
					FRAM	02769	\$ 52.86	80	008-225-1-ARB		024/DE TOMASO
					AC_DELCO	213-6	\$ 50.25	80	008-318-4-AUP		400
					NIEHOFF	FE804	\$ 46.81	81	B0R1 7/2HJ1		400 CONVERTIBLE
					BORG WARNER	0S101	\$ 50.10	81	B0R2 2V2H45		600
					ECHLIN	0S300	\$ 57.67	81	B0R2 2V2H48		600 CONVERTIBLE
								81	B0R5 2V2H44		AD150 RANCHARGE
								81	B0R5 2V4HCL		AD150 RANCHARGER
								81	B0R5 2V5FA8		AD150 RANCHARGER
								82	C0R1 7/2HF7		ARIES
								82	C0R2 2V2HFL1		ARIES WAGON
								82	C0R2 2V2HNLX		ASPEN
								82	C0R5 2V2HAL4		AW150 RANCHARGE
								82	C0R5 2V4HAL1		AW150 RANCHARGER
								83	D0R1 6V2HC80		AW150 RANCHARGER
								83	D0R1 7V2HC9		B150/250 WAGON
								83	D0R2 2V2HAC3		B150/B250 VAN
								83	D0R2 2V2HCL7		B150/B250 VAN 2
								83	D0R3 7V1HAC3		B150/B250 WAGON
								83	D0R5 2T2HBK		B150/B250 WGN
								83	D0R5 2V2HAP9		B350 VAN 2wd
								83	D0R5 2V2HC98		B350 WAGON 2wd
								83	D0R5 2V4HAT2		B350 WGN 2wd
								84	E0R1 6V2HF7		CARAVAN 2wd
								84	E0R2 2T2HCL9		CARAVELLE
								84	E0R2 2V2HAC4 (d)		CHARGER
								84	E0R2 2V2HCL8		CHRYSLER 300
								84	E0R2 2V5FAA8 (d)		CORCBA
								84	E0R2 2V5HCF1 (d)		D100 2wd
								84	E0R2 2V5HDL0		D100/D150 P/U
								84	E0R3 7T1HEJ1 (d)		D100/D150 P/U 2
								84	E0R5 2T2HB0 (d)		D100/D150 PICKU
								84	E0R5 2T2HB5 (d)		D150 2wd
								84	E0R5 2V2HAPX (d)		D150 P/U 2wd
								84	E0R5 2V2HC9 (d)		D250 P/U 2wd
								84	E0R5 2V4HAT3 (d)		D250 PICKUP 2wd
								85	FOR1 6V2HF8 (d)		DAYTONA
								85	FOR2 2V2HC5		DIPLOMAT

(continued)

- (a) Based on engine family sales data. Oxygen sensor sales data have been split equally when multiple part numbers can be applied to the same engine family.
(b) Manufacturer suggested retail price. Actual price may vary.
(c) This listing uses a compressed format. Models and engine families no longer have one on one relationship.
(d) More than one oxygen sensor part number can be used with this engine family.

TABLE 2

VEHICLE MANUFACTURER	OEM SENSOR PART NUMBER	TOTAL SALES VOLUME (a)	RETAIL PRICE (b)	RECOMMENDED CHANGE OUT INTERVAL	AFTERMARKET SENSOR DATA			OEM SENSOR APPLICATIONS			
					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED	
CHRYSLER CORP	4301375	(continued)									
								85	FOR2.2V2HDJ9		DIPLOMAT SALON
								85	FOR2.2V5HCF2		DIPLOMAT WAGON
								85	FOR2.2V5HDL1		De TAMASO
								85	FOR5.2T2HEM1		E CLASS/NEW YOR
								85	FOR5.2T2HEM6		FIFTH AVENUE ED
								85	FOR5.2V2HAP0		FURY
								85	FOR5.2V2HCK		GRAN FURY
								85	FOR5.2V4HAT4		HORIZON
								86	GOR1.6V2HDH0		HORIZON TC3
								86	GOR2.2V2HDH6		IMPERIAL
								86	GOR2.2V2HDJX		LANCER
								86	GOR2.5V5FAM9		LASER
								86	GOR2.5V5HCFX		LASER/DAYTONA
								86	GOR5.2T2HEM2		LEBARON
								86	GOR5.2T2HEM7		LEBARON CONVERT
								86	GOR5.2V2HAP1		LEBARON GTS
								86	GOR5.2V2HCK0		LEBARON WAGON
											Le BARON
											LeBARON
											MIRADA
											NEW YORKER
											NEWPORT
											NEWPORT/FIFTH A
											OMNI
											OMNI 024
											PB150/250 VYGR
											PB350 VYGR 2WD
											RAM VAN 2WD
											RAMPAGE 2WD
											RELIANT
											RELIANT WAGON
											SPECIAL
											ST. REGIS
											TC3
											TC3/TURISMO
											TOWN & COUNTRY
											TURISMO
											VOLARE
											VOYAGER 2WD
											W100/W150 4WD

(continued)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
CHRYSLER CORP	4301375	(continued)								W100/W150 P/U W100/W150 P/U 4 W100/W150 PICKU W150 P/U 4WD W250 P/U 4WD
CHRYSLER CORP.	M0073036	185,877	\$155 00	NOT SPECIFIED	STANDARD	SG12	\$ 69.41	84 (c) 85 85	ECR2.6W2FAJ9 FOR2.6W2FAJX FOR2.6W2FAP5	600 600 CONVERTIBLE ARIES ARIES WAGON CARAVELLE E CLASS/NEW YOR EXEC SEDAN/LIMO LEBARON LEBARON CONVERT NEW YORKER RELIANT RELIANT WAGON TOWN & COUNTRY
FORD MOTOR CO	E63Z 9F472-A	1,145,062	\$ 49 62	NOT SPECIFIED	BOSCH BOSCH FRAM AC_DELCO NIEHOFF BORG WARNER EDLIN STANDARD	0258002908 0258002909 02823 213-5 FE800 05104 05201 SG2	\$ 59 20 \$ 59 20 \$ 64.84 \$ 50 25 \$ 52 01 \$ 52 01 \$ 62 53 \$ 61 95	84 84 84 84 84	FM2.3V1H0K5 FM2.3V1HECX FM2.3V1HRFX FM4 9T1HG65	TEMPO TOPAZ TEMPO TOPAZ TEMPO TOPAZ BRONCO 4WD E150 CLUB WAGON E150 ECONOLINE E250 ECONOLINE F150 PICKUP 2WD F150 PICKUP 4WD F250 PICKUP 2WD F250 PICKUP 4WD
								85	FM2.3V3HC4	TEMPO TOPAZ

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
FORD MOTOR CO.	EE3Z 9F472-A	(continued)						85	FM2.3V5HC6	TEMPO TOPAZ
								85	FM4.9T1HGG6	BRONCO 4WD E150 E150 CLUB WAGON E250 ECONOLINE F150 F150 PICKUP 4WD F250 PICKUP 2WD F250 PICKUP 4WD
FORD MOTOR CO	EE3Z 9F472-A	122,688	\$ 49 62	NOT SPECIFIED	BOSCH	0258002908	\$ 59 20	84	FM2.3V5FGT2	CAPRI COUGAR MUSTANG THUNDERBIRD
					BOSCH	0258003913	\$101 00			
					FRAM	02784	\$ 64 84			
					FRAM	02823	\$ 64 84			
					AC_DELCO	213-5	\$ 50 25			
					NTE-OFF	FEB10	\$ 56 90	85	FM2.3T5FAG7	RANGER PICKUP 2 RANGER PICKUP 4 RANGER PICKUP C
					BORG WARNER	OS110	\$ 56 90			
					ECHLIN	OS203	\$ 63 70			
					STANDARD	SG1	\$ 62 90			
								85	FM2.3T5FFG6	RANGER PICKUP 2 RANGER PICKUP 4 RANGER PICKUP C
								85	FM2.3V5FGK2 (d)	COUGAR MUSTANG THUNDERBIRD XR4Ti
FORD MOTOR CO	EE3Z 9F472-A	3,744,403	\$ 49 62	NOT SPECIFIED	BOSCH	0258002908	\$ 59 20	81 (c)	2.3AX	BRONCO 4WD
					BOSCH	0258002909	\$ 59 20	81	4.2/5 OAC	BRONCO II 4WD
					BOSCH	0258003913	\$101 00	81	4.2/5 OACF	CAPRI
					FRAM	02784	\$ 64 84	81	4.2/5 ONP	CONT. MARK VI
					FRAM	02823	\$ 64 84	81	5.0CC	CONTINENTAL
					AC_DELCO	213-5	\$ 50 25	81	5.0CCF	COUGAR
					AC_DELCO	213-7	\$ 50 30	81	5.8WNG	COUGAR WAGON
					NTE-OFF	FEB01	\$ 52 01	82	FM2.3V2HAC4	CROWN VICTORIA
					BORG WARNER	OS100	\$ 52 01	82	FM3.8V2HCO	E100/150 2WD (C)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
FORD MOTOR CO	E6ZZ 9F472-A	(continued)								RANGER P/U CC RANGER PICKUP 2 RANGER PICKUP 4 RANGER PICKUP C THUNDERBIRD TOWN CAR XR4T1 XR7 ZEPHYR ZEPHYR WAGON
GENERAL MOTORS	25105107	18,074,024	\$ 37 11	50,000 MILES	FRAM	02820	\$ 59 33	82 (c)	C1G1.6V2NEAX	1000
					FRAM	02824	\$ 59 33	82	C1G1.8V2NNA0	2000
					NIEHOFF	FE803	\$ 46 90	82	C1G2.8T2TRAD	2000 CONVERTIBL
					ECHLIN	OS101	\$ 59 28	82	C1G2.8V2NNA8	2000 SUNBIRD
					BORG WARNER	OS102	\$ 46 90	82	C1G3.8V2ACA0	2000 SUNBIRD CO
					STANDARD	SG5	\$ 59 93	82	C1G3.8V2TMA8	2000 SUNBIRD WA
								82	C1G4.4V2ACA6	2000 WAGON
								82	C1G5.7V4ACA7	6000
								82	C1G5.7V5NB02	6000 WAGON
								82	C1G5.7V4ACA1	ASTRO 2WD(PASS)
								82	C1G5.7V5NB07	ASTRO2WD(CARGO)
								82	C2G1.8V5TDG9	BONNEVILLE
								82	C2G2.5V5TRG5	BONNEVILLE MODE
								82	C3G4.3V2AEA2	BONNEVILLE WAGO
								82	C3G5.0V4ARA8	C10 PICKUP 2WD
								82	C3G5.0V4ARA2	C10 SUBURBAN 2W
								82	C4G3.0V2NEA9	C10 SUBURBAN 2WD
								82	C4G3.8V2TMA5	C15 PICKUP 2WD
								82	C4G4.1V4AEA8	C15 SUBURBAN 2W
								82	C4G4.1V4AEA2	C15 SUBURBAN 2WD
								83	C4G4.1V4AEA8	C20 PICKUP 2WD
								83	C4G4.1V4AEA2	C25 PICKUP 2WD
								83	D1G1.6V2NEA0	CABALLERO P/U 2
								83	D1G1.6V2NEA5	CABALLERO PICKU
								83	D1G2.0V5KAJ4	CABALLERO PU 2W
								83	D1G2.0V5KAJ9	CABALLERO PU2WD
								83	D1G2.8T2TRA1	CALAIS
								83	D1G2.8V2NNA9	CAMARO
								83	D1G2.8V2NNA3	CAPRICE

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED	
GENERAL MOTORS	25105107	(continued)									
									83	D1G3.8V2ND44	CAPRICE WAGON
									83	D1G5.0M4NEA9	CAVALIER
									83	D1G5.7T4TYA3	CAVALIER CONV
									83	D1G5.7V4ND40	CAVALIER CONV.
									83	D1G5.7V5NEB3	CAVALIER CONVERT
									83	D2G1.8V5TDGK	CAVALIER WAGON
									83	D2G2.5V5TFG6	CELEBRITY
									83	D3G5.0V4ARA9	CELEBRITY WAGON
									83	D3G5.0M4ARA3	CENTURY
									83	D4G3.0M2NEA4	CENTURY ESTATE
									83	D4G3.8V2NEA3	CENTURY WAGON
									83	D4G3.8M2TMA0	CHEVETTE
									84	D1G5.7V5NEB3	CHEVETTE CS
									84	D1G5.7V5NEB8	CIMARRON
									84	E1G1.8V2NEA1	CITATION
									84	E1G1.8M2NEA6	CITATION II
									84	E1G2.0V5KAJ5	CORVETTE
									84	E1G2.0M5KAJX	CUSTOM CRSR WGN
									84	E1G2.8T2TRA2	CUSTOM CRUISER
									84	E1G2.8V2NNA3	CUTLASS CIERA
									84	E1G2.8M2NNA4	CUTLASS CRSR W6
									84	E1G3.8V2ND45	CUTLASS CRUISER
									84	E1G5.0M4NEA3	CUTLASS SUPREME
									84	E1G5.7T4TYA4	DELTA 88
									84	E1G5.7V4NEA3	DELTA 88 ROYALE
									84	E2G1.8V5TDG0	DEVILLE
									84	E2G1.8V9TD4K	DEVILLE/BROUGH
									84	E2G2.5V5TFG7	EL CAMINO P/U 2
									84	E3G5.0V4NEB0	EL CAMINO PICKU
									84	E3G5.0V4NLAX	EL CAMINO PU 2W
									84	E3G5.0M4NEA2	EL CAMINO PU2WD
									84	E4G3.8V2NEY0	ELDORADO
									84	E4G3.8V8KEB2	ELDORADO CONV
									84	E4G3.8V8KEB6	ELECTRA
									84	E4G3.8M2NEY5	ELECTRA (RWD)
									84	E4G4.1V4NEY7	ELECTRA ESTATE
									85	E1G2.8V2NNA3	FIERO
									85	E4G3.8V8KEB2	FIREBIRD
									85	F1G1.8V2NEA2	FIRENZA
									85	F1G1.8M2NEA7	FIRENZA CRUISER

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED		
GENERAL MOTORS	25105107	(continued)										
								85	F1G2.0V5XAG1	FIRENZA CSR WAG		
								85	F1G2.8T2TRR3	FLTWD BRM (RWD)		
								85	F1G2.8V8XG29	FLTWD/BRM		
								85	F1G2.8V8XG23	FLTWD/DVIL (FWD)		
								85	F1G4.3T4TAA3	G10/20 SPVN 2WD		
								85	F1G4.3V5NDA7	G10/20 VAN 2WD		
								85	F1G4.3V5NDA1	G10/G20 SPORTVA		
								85	F1G5.0V4NEA0	G10/G20 VAN 2WD		
								85	F1G5.7T4TYA5	G15/25 RALLY2WD		
								85	F1G5.7V4NEA4	G15/25 VORA 2WD		
								85	F1G5.7V8NEA9	G15/G25 RALLY 2		
								85	F2G1.8V5TDG1	G15/G25 VANDURA		
								85	F2G2.5T5TFG9	G30 SPORTVAN 2W		
								85	F2G2.5V5TFG8	G30 SPRTVAN 2WD		
								85	F3G5.0V4NLA0	G35 RALLY 2WD		
								85	F3G5.0V4NEA3	GRAND AM		
								85	F4G3.8V2NEY1	GRAND PRIX		
								85	F4G3.8V2ZSY6	IMPALA/CAPRICE		
								85	F4G3.8V8XEB3	J2000		
								85	F4G3.8V8XEB7	J2000 WAGON		
								85	F4G3.8V2ZSY0	K10 BLAZER 4WD		
								85	F6G4.1V5NKAB	K10 PICKUP 4WD		
								85	F6G4.1V5NKAZ	K10 SUBURBAN 4W		
								86	G1G1.6V2NEA3	K10 SUBURBAN 4WD		
								86	G1G2.0V5XAG2	K15 JIMMY 4WD		
								86	G1G2.0V5XAG7	K15 PICKUP 4WD		
								86	G1G2.8T5HTR5	K15 SUBURBAN		
								86	G1G2.8T5TRY1	K15 SUBURBAN 4WD		
								86	G1G2.8V2NNA1	LESAB/ELEC WGN		
								86	G1G2.8V8XG2X	LESABRE		
								86	G1G2.8V8XG24	LESABRE/ELECTRA		
								86	G1G4.3T5TAA8	LIMOUSINE		
								86	G1G4.3T5TMG9	MALIBU		
								86	G1G4.3V5NDA8	MALIBU WAGON		
								86	G1G5.0V4NTA3	MONTE CARLO		
								86	G1G5.0V4NEA1	NINETY-EIGHT		
								86	G1G5.0V6NTA2	NINETY-EIGHT REG		
								86	G1G5.7T4TYA6	OMEGA		
								86	G1G5.7V4NEA5	PARISIENNE		
								86	G1G5.7V8NTA6	PARISIENNE WAGO		

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
GENERAL MOTORS	25105107	(continued)								
								86	G2G1.8V5TDG2	PARISIENNE WGN
								86	G2G1.8V9T3MB	PHOENIX
								86	G2G2.5T5TRGX	REGAL
								86	G2G2.5V5TRG9	REGAL ESTATE WA
								86	G3G5.0V4NL1A1	RIVERIA CONVERT
								86	G3G5.0V4NB44	RIVIERA
								86	G4G3.8V2NSY7	RIVIERA CONVERT
								86	G4G3.8V8XEB4	S10 BLAZER 2WD
								86	G4G3.8V8XEB8	S10 CA CHAS 2WD
								86	G4G3.8V2NSY1	S10 CAB CHASSIS
								86	G6G4.1V5NK49	S10 P/U 2WD
								86	G6G4.1V5NK43	S10 PICKUP 2WD
										S15 CA CHAS 2WD
										S15 CAB CHASSIS
										S15 JIMMY 2WD
										S15 P/U 2WD
										S15 PICKUP 2WD
										SAFARI 2WD (CARG)
										SAFARI 2WD (PASS)
										SEVILLE
										SKYHAWK
										SKYHAWK WAGON
										SKYLARK
										SOMERSET REGAL
										SOMERSET/LARK
										SUNBIRD
										SUNBIRD CONV
										SUNBIRD CONVERT
										SUNBIRD WAGON
										T10 BLAZER 4WD
										T10 PICKUP 4WD
										T1000
										T15 JIMMY 4WD
										T15 PICKUP 4WD
										TORNADO
GENERAL MOTORS	25106169	3,937,222	\$ 36.71	50,000 MILES	FRAM	Q2E24	\$ 59.33	81 (c)	11C2NDM	BROUGHAM/DEVILL
					NIEHOFF	FE802	\$ 46.90	81	11D2AC	CABALLERO P/U 2
					ECHLIN	OS100	\$ 59.28	81	11E2AC	CAMARO
					BORG WARNER	OS103	\$ 46.90	81	11L4AC	CATALINA/BONNE

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
GENERAL MOTORS	25106169	(continued)			STANDARD	SG3	\$ 59.93	81	11L4ACJ	CATALINA/BONNE.
								81	11W2TNQZ	CENTURY
								81	12H2AD	CENTURY WAGON
								81	12S4A8	CHEVETTE
								81	12S4A8D	CITATION
								81	12X2NN	CORVETTE
								81	13H2AE	CUSTOM CRUISER
								81	13Y4AR	CUTLASS
								81	13Y4ARJ	CUTLASS SUPRBM/
								81	14E2TM	CUTLASS WAGON
								81	14E4NE8	DELTA 88
								81	14F4AE	DEVILLE/BROUGHAM
								81	14F4AEJ	EL CAMINO P/U 2
								81	16T5ACB	ELDORADO
								81	16T5ACBJ	ELDORADO CONVER
								81	16T5ARB	ELECTRA
								82	08G4 1V5AGA3	FIREBIRD
								83	08G4 1V5AGA4	GRAND PRIX
								83	08G4 1W5AGA9	IMPALA/CAPRICE
								84	08G4 1V5NKA7	LEMANS
								84	08G4 1W5AGAX	LEMANS SAFARI W
										LESABRE
										LESABRE/ELECTRA
										LINDSINE
										MALIBU
										MALIBU WAGON
										MONTE CARLO
										NINETY-EIGHT
										OMEGA
										PHOENIX
										REGAL
										RIVIERA
										SEVILLE
										SKYLARK
										T1000
										TORNADO
HONDA	36531-PC7-663	127,900	\$215.32	NOT SPECIFIED	NO KNOWN AFTERMARKET APPLICATIONS			84	EHN1.8V0FGF3	PRELUDE

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
HONDA	36531-PC7-663	(continued)						84	EH1.8V0F-C2	PRELUDE
								85	FH1.8V0GF4	PRELUDE
								85	FH1.8V0F-C3	PRELUDE
HONDA	36531-PD2-663	288,650	\$215.32	NOT SPECIFIED	NO KNOWN AFTERMARKET APPLICATIONS					
								84	EH1.8V3FE0	ACCORD
								84	EH1.8V3FFX	ACCORD
								85	FH1.8V3FE1 (d)	ACCORD
								85	FH1.8V3FF0 (d)	ACCORD
								85	FH1.8V3FF3 (d)	ACCORD
								85	FH1.8V3FF5 (d)	ACCORD
								85	FH1.8V3FY4 (d)	ACCORD
								85	FH1.8V5FF9 (d)	ACCORD
HONDA	36531-PD6-662	127,933	\$215.32	NOT SPECIFIED	NO KNOWN AFTERMARKET APPLICATIONS					
								85	FH1.8V3FE1 (d)	ACCORD
								85	FH1.8V3FF0 (d)	ACCORD
								85	FH1.8V3FF3 (d)	ACCORD
								85	FH1.8V3FF5 (d)	ACCORD
								85	FH1.8V3FY4 (d)	ACCORD
								85	FH1.8V5FF9 (d)	ACCORD
HONDA	36531-PE1-662	169,212	\$215.32	NOT SPECIFIED	NO KNOWN AFTERMARKET APPLICATIONS					
								85	FH1.5V3FC1	CIVIC

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
NISSAN	A24-000	(continued)						85	FRS2.0V5FBF5 (d)	200SX
								85	FRS2.0V5FCC4 (d)	200SX
								85	FRS2.0V5FCF7 (d)	200SX
								86	GNS2.0V5FCC5 (d)	200 SX
								86	GNS2.0V5FCF8 (d)	200SX
								86	GNS2.0V5FCC2 (d)	200 SX
								86	GNS2.0V5FGF5 (d)	200SX
NISSAN	A24-000001	65,498	\$ 94.81	NOT SPECIFIED	FRAM STANDARD	02821 S69	\$ 64.84 \$ 61.73	82	ONS1.5V9FAF5 (d)	NISSAN SENTRA
								83	DNS2.2V5FAA8 (d)	200SX
								83	DNS2.4T9FAC6 (d)	NISSAN CAB CHAS NISSAN PICKUP 2 NISSAN PICKUP 4
								84	ENS2.4T9FAC7 (d)	PICKUP 2WD PICKUP 4WD PICKUP CAB CHAS
								84	ENS2.4V5FAC1 (d)	MAXIMA MAXIMA WAGON
								84	ENS2.4V5FAF4 (d)	MAXIMA MAXIMA WAGON
NISSAN	A24-000050	70,734	\$ 94.81	NOT SPECIFIED	FRAM STANDARD	02821 S69	\$ 64.84 \$ 61.73	84	ENS2.0V5FACX (d)	200SX STANZA
								84	ENS2.0V5FAF2 (d)	200SX STANZA
								84	ENS2.4V5FAC1 (d)	MAXIMA

(continued)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
NISSAN	A24-00050	(continued)								MAXIMA WAGON
								84	ENS2.4V5FAF4 (d)	MAXIMA MAXIMA WAGON
NISSAN	A24-000372	421,055	\$ 94 81	NOT SPECIFIED	FRAM STANDARD	O2B21 SG9	\$ 64 84 \$ 61 73	81	BNS2.0V5FB7	200SX
								81	BNS2.0V5FC8	200SX
								81	BNS2.8V5FB3	280ZX 280ZX 2+2 810 810 WAGON
								81	BNS2.8V5FC4	280ZX 280ZX 2+2 810 810 WAGON
								81	BNS2.8V5FD5	280 ZX
								81	BNS2.8V5FE6	280 ZX
								82	ONS2.2V5FAF1	200SX
								82	ONS2.8V5FAF4	280ZX 280ZX 2+2 810 810 WAGON
								82	ONS2.8V5FCFB	280ZX 280ZX 2+2
								83	ONS2.8V5FAA0 (d)	280ZX 280ZX 2+2 810 810 WAGON
								83	ONS2.8V5FBC4 (d)	280 ZX 280 ZX 2+2

(continued)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
NISSAN	A24-000372	(continued)						83	DNS2 8V5FBF7 (d)	280ZX 280ZX 2+2
								84	ENS2 4V5FAC1 (d)	MAXIMA MAXIMA WAGON
								84	ENS2 4V5FAF4 (d)	MAXIMA MAXIMA WAGON
NISSAN	A24-600	621,184	\$ 94.81	NOT SPECIFIED	FRAM	Q2821	\$ 64.84	83 (c)	DNS1 6V9FAC9	200 SX
					NIE/OFF	FE806	\$ 52.01	84	ENS1 6V9FACX	200SX
					BORG WARNER	OS106	\$ 52.01	85	FNS1 6V9FAC0 (d)	CAB CHASSIS 2WD
					ECHLIN	OS401	\$ 64.10	85	FNS1 6V9FBC2 (d)	NISSAN SENTRA
					STANDARD	SG9	\$ 61.73	85	FNS1 6V9HAF9 (d)	NISSAN SENTRA W
								85	FNS2 0V5FAC0 (d)	PULSAR
								85	FNS2 0V5FAF3 (d)	PULSAR/PULSAR-W
								85	FNS2 0V5FBC2 (d)	SENTRA
								85	FNS2 0V5FBF5 (d)	SENTRA WAGON
								85	FNS2 0V5FDC4 (d)	STANZA
								85	FNS2 0V5FDF7 (d)	STANZA WAGON 2W
								85	FNS2 4T9FAC8 (d)	TRUCK 2WD
								85	FNS2 4T9FAF0 (d)	TRUCK 2WD (NEW)
								86	GNS1 6V9FAC1 (d)	TRUCK 4WD
								86	GNS1 6V9HAFX (d)	TRUCK 4WD (NEW)
								86	GNS2 0V5FAC1 (d)	
								86	GNS2 0V5FAF4 (d)	
								86	GNS2 0V5FDC5 (d)	
								86	GNS2 0V5FDC8 (d)	
								86	GNS2 0V5FDC7 (d)	
								86	GNS2 0V5FDFX (d)	
								86	GNS2 0V5FBC9 (d)	
								86	GNS2 0V5FEF1 (d)	
								86	GNS2 0V5FBC2 (d)	
								86	GNS2 0V5FGF5 (d)	
								86	GNS2 4T5FAC4	
								86	GNS2 4T5FAF7	
								86	GNS2 4T5HACX (d)	
								86	GNS2 4T5HAF2 (d)	
								86	GNS2 4T9FAC9 (d)	

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
NISSAN	A24-600	(continued)						86	GNS2.4T9FAF1 (d)	
NISSAN	A24-600001	170,032	\$ 94.81	NOT SPECIFIED	FRAM STANDARD	Q2821 SGB	\$ 64.84 \$ 61.73	83	DNS2.2V5FAA8 (d)	200SX
								83	DNS2.4T9FAC6 (d)	NISSAN CAB CHAS NISSAN PICKUP 2 NISSAN PICKUP 4
								83	DNS2.8V5FAA0 (d)	280ZX 280ZX 2+2 810 810 WAGON
								83	DNS2.8V5FBC4 (d)	280 ZX 280 ZX 2+2
								83	DNS2.8V5FBF7 (d)	280ZX 280ZX 2+2
								84	ENS2.0V5FACX (d)	200SX STANZA
								84	ENS2.0V5FAF2 (d)	200SX STANZA
								84	ENS2.4T9FAC7 (d)	PICKUP 2WD PICKUP 4WD PICKUP CAB CHAS
								84	ENS2.4V5FAC1 (d)	MAXIMA MAXIMA WAGON
								84	ENS2.4V5FAF4 (d)	MAXIMA MAXIMA WAGON
NISSAN	A24-600003	6,797	\$ 94.81	NOT SPECIFIED	STANDARD	SGB	\$ 61.73	83	DNS1.5V5FAC9	PULSAR
								83	DNS1.5V5FAF1	PULSAR
NISSAN	A24-601	180,074	\$138.33	NOT SPECIFIED	FRAM	Q2821	\$ 64.84	84	ENS1.8V5FAC6	200 SX

(continued)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
NISSAN	A24-601	(continued)			STANDARD	SG9	\$ 61.73			
								84	ENS1.8V5FAF9	200SX
								84	ENS3.0V5FAC7	300ZX 300ZX 2+2
								84	ENS3.0V5FAFX	300ZX 300ZX 2+2
								84	ENS3.0V5FBF1	300 ZX
								85	FNS1.6V9FAC0 (d)	PULSAR SENTRA SENTRA WAGON
								85	FNS1.8V5FAC7 (d)	200 SX
								85	FNS1.8V5FAFX (d)	200SX
								85	FNS3.0V5FAC8 (d)	300ZX 300ZX 2+2
								85	FNS3.0V5FAF0 (d)	300ZX 300ZX 2+2
								85	FNS3.0V5FBCX (d)	300 ZX
								85	FNS3.0V5FBF2 (d)	300ZX
								85	FNS3.0V5HAC3 (d)	MAXIMA MAXIMA WAGON
								85	FNS3.0V5HAF6 (d)	MAXIMA MAXIMA WAGON
								86	GNS1.8V5FAC8 (d)	200 SX TURBO
								86	GNS1.8V5FAF0 (d)	200 SX TURBO
								86	GNS1.8V5FBCX (d)	200 SX TURBO

(continued)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
NISSAN	A24-601	(continued)						86	GNS1.0V5FBF2 (d)	200 SX TURBO
								86	GNS3.0V5HAC4 (d)	MAXIMA MAXIMA WAGON
								86	GNS3.0V5HAF7 (d)	MAXIMA MAXIMA WAGON
NISSAN	A24-601000	UNKNOWN	\$136.11	NOT SPECIFIED	NO KNOWN AFTERMARKET APPLICATIONS			84	ENS3.0V5FBC9	300 ZX
NISSAN	A24-610	422,251	\$ 94.81	NOT SPECIFIED	FRAM	02821	\$ 64.84	85	FNS1.6V9FBC2 (d)	PULSAR SENTRA SENTRA WAGON
					NIEHOFF	FE806	\$ 52.01			
					BORG WARNER	OS106	\$ 52.01			
					ECHLIN	OS401	\$ 64.10			
					STANDARD	SG9	\$ 61.73	85	FNS1.6V9HAF9 (d)	PULSAR SENTRA SENTRA WAGON
					85	FNS2.0V5FAC0 (d)	STANZA			
					85	FNS2.0V5FAF3 (d)	STANZA			
					85	FNS2.0V5FBC2 (d)	200SX			
					85	FNS2.0V5FBF5 (d)	200SX			
					85	FNS2.0V5FCC4 (d)	200SX			
85	FNS2.0V5FCF7 (d)	200SX								
85	FNS2.4T9FAC8 (d)	CAB CHASSIS 2WD TRUCK 2WD TRUCK 4WD								
85	FNS2.4T9FAF0 (d)	CAB CHASSIS 2WD TRUCK 2WD TRUCK 4WD								

(continued)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
NISSAN	A24-610	(continued)						86	GNS1.6V9FAC1 (d)	PULSAR SENTRA SENTRA WAGON
								86	GNS1.6V9HAFX (d)	PULSAR SENTRA SENTRA WAGON
								86	GNS2.0V5FAC1 (d)	STANZA WAGON 2W
								86	GNS2.0V5FAF4 (d)	STANZA WAGON 2W
								86	GNS2.0V5FDC5 (d)	200 SX
								86	GNS2.0V5FDC8 (d)	200SX
								86	GNS2.0V5FDC9 (d)	STANZA
								86	GNS2.0V5FEF1 (d)	STANZA
								86	GNS2.0V5FDC2 (d)	200 SX
								86	GNS2.0V5FGF5 (d)	200SX
								86	GNS2.4T9FAC9 (d)	TRUCK 2WD TRUCK 4WD
								86	GNS2.4T9FAF1 (d)	CAB CHASSIS 2WD TRUCK 2WD TRUCK 4WD
NISSAN	A24-611	95,483	\$138.33	NOT SPECIFIED	FRAM	02821	\$ 64.84	85	FNS1.8V5FAC7 (d)	200 SX
								85	FNS1.8V5FAFX (d)	200SX
								85	FNS3.0V5FAC8 (d)	300ZX 300ZX 2+2
								85	FNS3.0V5FAF0 (d)	300ZX

(continued)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED																
NISSAN	A24-611	(continued)									300ZX 2+2															
											85	FNS3.0V5FBCX	(d)	300 ZX												
											85	FNS3.0V5FBF2	(d)	300ZX												
											85	FNS3.0V5HAC3	(d)	MAXIMA MAXIMA WAGON												
											85	FNS3.0V5HAF6	(d)	MAXIMA MAXIMA WAGON												
											86	GNS1.8V5FAC8	(d)	200 SX TURBO												
											86	GNS1.8V5FAF0	(d)	200 SX TURBO												
											86	GNS3.0V5HAC4	(d)	MAXIMA MAXIMA WAGON												
											86	GNS3.0V5HAF7	(d)	MAXIMA MAXIMA WAGON												
											NISSAN	A24-620	119,277	\$ 94.81	NOT SPECIFIED	FRAM	Q2821	\$ 64.84	85	FNS2.0V5FBC2	(d)	200SX				
NIE-OFF	FE806	\$ 52.01	85	FNS2.0V5FBF5	(d)	200SX																				
BORG WARNER	OS106	\$ 52.01																								
ECHLIN	OS401	\$ 64.10																								
STANDARD	SG9	\$ 61.73																								
85	FNS2.0V5FDC4	(d)				200SX																				
						85	FNS2.0V5FDF7	(d)	200SX																	
									86	GNS2.0V5FAC1												(d)	STANZA WAGON 2W			
																							86	GNS2.0V5FAF4	(d)	STANZA WAGON 2W
																										86
											86	GNS2.0V5FDF8	(d)	200SX												
86	GNS2.0V5FDC7	(d)	200SX																							
			86	GNS2.0V5DFX	(d)	200SX																				

(continued)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
NISSAN	A24-620	(continued)						86	GNS2.0V5FBC2 (d)	200 SX
								86	GNS2.0V5FGF5 (d)	200SX
								86	GNS2.4T5HACX (d)	TRUCK 2WD (NEW) TRUCK 4WD (NEW)
								86	GNS2.4T5HAF2 (d)	TRUCK 2WD (NEW) TRUCK 4WD (NEW)
NISSAN	A24-621	44,149	\$136.11	NOT SPECIFIED	FRAM	02821	\$ 64.84	85	FNS3.0V5FAC8 (d)	300ZX 300ZX 2+2
								85	FNS3.0V5FAF0 (d)	300ZX 300ZX 2+2
								86	GNS1.8V5FBCX (d)	200 SX TURBO
								86	GNS1.8V5FBF2 (d)	200 SX TURBO
								86	GNS3.0V5HAC4 (d)	MAXIMA MAXIMA WAGON
								86	GNS3.0V5HAF7 (d)	MAXIMA MAXIMA WAGON
NISSAN	D1F	41,943	\$141.90	NOT SPECIFIED	NO KNOWN AFTERMARKET APPLICATIONS					
								86	GNS3.0T5HAC5	TRUCK 2WD (NEW) TRUCK 4WD (NEW)
								86	GNS3.0T5HAF8	CAB CHASSIS 2WD TRUCK 2WD (NEW) TRUCK 4WD (NEW)
NISSAN	D2F	66,803	\$138.20	NOT SPECIFIED	FRAM	02821	\$ 64.84	86	GNS2.0V5FBC3	STANZA WAGON 4W
								86	GNS2.0V5FBF6	STANZA WAGON 4W
								86	GNS3.0V5FBC0	300ZX

(continued)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
NISSAN	D2F	(continued)								
								86	GNS3.0V5FBF3	300ZX 2+2 300ZX 300ZX 2+2
								86	GNS3.0V5FDC2	300 ZX
								86	GNS3.0V5FCF5	300ZX
MITSUBISHI	M0073461	CONFIDENTIAL (e)	\$272.52	50,000 MILES	NO KNOWN AFTERMARKET APPLICATIONS					
								86	GMT2.6T2FFD3	MONTERO POWER RAMESO 4WD RAMESO 2WD TRUCK 2WD
MITSUBISHI	M0073546	32,449	\$178.28	50,000 MILES	NO KNOWN AFTERMARKET APPLICATIONS					
								83	GMT2.6V5FFD0	STARION
								84	GMT2.6V5FFD1	CONQUEST STARION
								86	GMT2.6EF	CONQUEST STARION
MITSUBISHI	M0076706	15,115	\$272.05	50,000 MILES	NO KNOWN AFTERMARKET APPLICATIONS					
								84	GMT1.8V5FFD5	CORDIA TREDIA
								86	GMT1.8EF	CORDIA TREDIA
MITSUBISHI	M0077621	29,719	\$176.20	50,000 MILES	NO KNOWN AFTERMARKET APPLICATIONS					
								85	FMT1.6V5FFD5	COLT MIRAGE
								86	GMT1.6EF	COLT

(continued)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
MITSUBISHI	MD077621	(continued)								MIRAGE
MITSUBISHI	MD078791	23,810	\$176 88	50,000 MILES	NO KNOWN AFTERMARKET APPLICATIONS			85	FMT2.4V5FFD1	GALANT
								86	GMT2.4EF	GALANT
MITSUBISHI	MD089922	200,371	\$176 38	50,000 MILES	STANDARD	SG12	\$ 69 41	85	FMT1.5V2FCA0	COLT MIRAGE
								85	FMT1.5V2FFD9	COLT MIRAGE
								86	GMT1.5V2FCA1	COLT
								86	GMT1.5V2HFD5	COLT
MITSUBISHI	MD117240	367,922	\$160 95	50,000 MILES	NO KNOWN AFTERMARKET APPLICATIONS			84 (c)	EMT1.4V2FCA4	COLT
								84	EMT1.4V2FFD2	COLT VISTA
								84	EMT1.6V2FFD3	COLT VISTA 4x4
								84	EMT1.6V5FFD4	CORDIA
								84	EMT2.0V2FCAX	MONTERO 4x4
								84	EMT2.0V2FFD8	POWER RANGEO P/U
								85	FMT2.0T2FCA1	PRECIS
								85	FMT2.0T2FFDx	RANGEO 2x4
								85	FMT2.0V2FCA0	RANGEO PICKUP 2x4
								85	FMT2.0V2FFD9	SPACE WAGON
								85	FMT2.6T2FFD2	TREDIA
								86	2 OF	TRUCK 2x4
								86	GMT2.0T2FBT2	TRUCK 4x4
								86	GMT2.0T2FFD0	
								86	GMT2.0V2HFD5	
MAZDA	B60118861	CONFIDENTIAL (e)	\$119 00	INSPECTION ONLY	NO KNOWN AFTERMARKET APPLICATIONS			86	GTK1.6V5FAF1	323
MAZDA	E56318861	130,157	\$119 00	INSPECTION ONLY	NIB-OFF	FE812	\$ 99.71	83	DTK1.5V2H0C9 (d)	GLC
					NIB-OFF	FE813	\$ 99.71			LASER

(continued)

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VEHICLE MANUFACTURER	OEM SENSOR PART NUMBER	TOTAL SALES VOLUME (a)	RETAIL PRICE (b)	RECOMMENDED CHANGE OUT INTERVAL	AFTERMARKET SENSOR DATA			OEM SENSOR APPLICATIONS		
					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
MAZDA	E56318861	(continued)								
					BORG WARNER	OS112	\$ 99.71			
					BORG WARNER	OS113	\$ 99.71	83	DTK1.5V2H0D1 (d)	GLC
					ECHLIN	OS502	\$119.87			
					ECHLIN	OS503	\$119.87	83	DTK2.0V2HFF7 (d)	626
					STANDARD	SG12	\$ 69.41			
								83	DTK2.0V2HGGX (d)	626
								84	ETK2.0V2HFF7 (d)	626
								84	ETK2.0V2HGGX (d)	626
								85	FTK2.0V2HFF7 (d)	626
								85	FTK2.0V2HGGX (d)	626
MAZDA	E56418861	59,881	\$119.00	INSPECTION ONLY	NIEHOFF	FEB13	\$ 99.71	84	ETK1.5V2H0G3 (d)	GLC
					BORG WARNER	OS113	\$ 99.71			
					ECHLIN	OS503	\$119.87	84	ETK1.5V2HFF8 (d)	GLC LASER
					STANDARD	SG12	\$ 69.41			
								85	FTK1.5V2H0G3 (d)	GLC
								85	FTK1.5V2HFF8 (d)	GLC LASER
MAZDA	E56518861	59,881	\$119.00	INSPECTION ONLY	NIEHOFF	FEB13	\$ 99.71	84	ETK1.5V2H0G3 (d)	GLC
					BORG WARNER	OS113	\$ 99.71			
					ECHLIN	OS503	\$119.87	84	ETK1.5V2HFF8 (d)	GLC LASER
					STANDARD	SG12	\$ 69.41			
								85	FTK1.5V2H0G3 (d)	GLC
								85	FTK1.5V2HFF8 (d)	GLC LASER
MAZDA	FE0518861	130,157	\$119.00	INSPECTION ONLY	NIEHOFF	FEB12	\$ 99.71	83	DTK1.5V2H0C9 (d)	GLC LASER
					NIEHOFF	FEB13	\$ 99.71			
					BORG WARNER	OS112	\$ 99.71			
					BORG WARNER	OS113	\$ 99.71	83	DTK1.5V2H0D1 (d)	GLC
					ECHLIN	OS502	\$119.87			
					ECHLIN	OS503	\$119.87	83	DTK2.0V2HFF7 (d)	626

(continued)

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VEHICLE MANUFACTURER	OEM SENSOR PART NUMBER	TOTAL SALES VOLUME (a)	RETAIL PRICE (b)	RECOMMENDED CHANGE OUT INTERVAL	AFTERMARKET SENSOR DATA			OEM SENSOR APPLICATIONS		
					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
MAZDA	FE0518861	(continued)			STANDARD	SG12	\$ 69 41	83	DTK2.0V2HG6X (d)	626
								84	ETK2.0V2HF7 (d)	626
								84	ETK2.0V2HG6X (d)	626
								85	FTK2.0V2HF7 (d)	626
								85	FTK2.0V2HG6X (d)	626
MAZDA	FE8618861	78,364	\$122.65	60,000 MILES	NIEHOFF	FE814	\$ 99 71	86	GTK2.0T2H0M3	B2000
					BORG WARNER	OS114	\$ 99 71			
					ECHLIN	OS504	\$119 87	86	GTK2.0T2HFL8	B2000
					STANDARD	SG12	\$ 69.41			
MAZDA	FEH118861	47,064	\$119 00	INSPECTION ONLY	NIEHOFF	FE812	\$ 99.71	86	GTK2.0V5FAJ1 (d)	626
					BORG WARNER	OS112	\$ 99 71			
					ECHLIN	OS502	\$119 87	86	GTK2.0V5FFJ0 (d)	626
MAZDA	FEH218861	47,064	\$119 00	INSPECTION ONLY	NIEHOFF	FE812	\$ 99.71	86	GTK2.0V5FAJ1 (d)	626
					BORG WARNER	OS112	\$ 99 71			
					ECHLIN	OS502	\$119 87	86	GTK2.0V5FFJ0 (d)	626
MAZDA	NG0418861	17,840	\$119 00	INSPECTION ONLY	NIEHOFF	FE813	\$ 99 71	84	ETK1.3V5HF06	RX-7
					BORG WARNER	OS113	\$ 99 71			
					ECHLIN	OS503	\$119 87	85	FTK1.3V5HF07	RX-7
					STANDARD	SG12	\$ 69 41			
MAZDA	NG2618861	CONFIDENTIAL (e)	\$119 00	INSPECTION ONLY	NIEHOFF	FE813	\$ 99.71	86	GTK1.3V5HF08	RX-7
					BORG WARNER	OS113	\$ 99.71			
					ECHLIN	OS503	\$119 87			
					STANDARD	SG12	\$ 69 41			
TOYOTA	89465-19026	CONFIDENTIAL (e)	\$ 79 85	30,000 MILES	NO KNOWN AFTERMARKET APPLICATIONS			80	44-E	CRESSIDA SUPRA
TOYOTA	89465-19055	1,361,115	\$ 79.85	60,000 MILES	NO KNOWN AFTERMARKET APPLICATIONS			81 (c)	BTY1.8V2FC7	1-TON TRUCK 24D

(continued)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
TOYOTA	89465-19055	(continued)								
								81	BTY1.6V2HF3	4-RUNNER 4WD CAB CHASSIS 2WD CAB/CHASSIS CARGO VAN 2WD CELICA COROLLA COROLLA WAGON STARLET TRUCK 2WD TRUCK 4WD VAN 2WD
								82	CTY1.6V2F0C8	
								82	CTY1.6V2HF1	
								83	DTY1.3V5FBBX	
								83	DTY2.4V5FBB2	
								84	ETY2.0T5FBB2	
								84	ETY2.4T5FBB4	
								84	ETY2.4V5FBB3	
								85	FTY2.0T5FBB3	
								85	FTY2.4T2F0C7	
								85	FTY2.4T5FBB5	
								85	FTY2.4V5FBB4	
								86	GTY2.2T5FBB5	
								86	GTY2.4T2F0C8	
								86	GTY2.4T5FBB6	
TOYOTA	89465-19135	41,259	\$ 79.85	NOT SPECIFIED	NO KNOWN AFTERMARKET APPLICATIONS					
								85	FTY1.6V5FBB8 (d)	COROLLA SPORT MR2
								86	GTY1.6V5FBB9 (d)	COROLLA SPORT MR2
TOYOTA	89465-19155	CONFIDENTIAL (e)	\$ 79.85	NOT SPECIFIED	NO KNOWN AFTERMARKET APPLICATIONS					
								86	GTY3.0V5FBB0	SUPRA
TOYOTA	89465-29045	564,038	\$ 79.85	NOT SPECIFIED	NO KNOWN AFTERMARKET APPLICATIONS					
								81 (c)	BTY1.5V2EC1	3/4 TON 2WD 3/4 TON TRUCK 2 4-RUNNER 4WD CAB CHASSIS CAB CHASSIS 2WD CELICA COROLLA COROLLA SPORT COROLLA TERCEL CORONA CORONA WAGON MR2
								81	BTY2.4T2EM7	
								81	BTY2.4V2EC3	
								81	BTY2.4V2EF6	
								82	CTY1.5V2EC9	
								82	CTY2.4T2EBB9	
								82	CTY2.4V2E0C0	
								82	CTY2.4V2EF9	
								83	DTY2.4T2EBBX	
								83	DTY2.4V2EBB9	
								84	ETY2.4T2EBB0	
								85	FTY1.6V5FBB8 (d)	

(continued)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
TOYOTA	89465-29045	(continued)						86	GT1.6V5FB89 (d)	TERCEL TRUCK 2WD TRUCK 4WD
TOYOTA	89465-29075	1,638,689	\$ 79.85	60,000 MILES	NO KNOWN AFTERMARKET APPLICATIONS			81 (c) 82 82 83 83 83 84 84 84 85 85 85 85 86 86 86 86	BTY2.8V5HB4 CTY2.8V5HB9 CTY2.8V5HB3 DTY1.6V2FCC8 DTY1.6V2HFF1 DTY2.8V5FB84 ETY1.6V2FCC9 ETY1.6V2HFF2 ETY2.8V5FB85 ETY1.6V2FCC9 FTY1.6V2FCCX FTY1.6V2HFF3 FTY2.8V5FB86 GTY1.6V2FCC0 GTY1.6V2HFF4 GTY2.4T5FBT7 GTY2.8V5FB87	4-RUNNER 4WD CELICA SUPRA COROLLA COROLLA SPORT COROLLA WAGON CRESSIDA CRESSIDA WAGON TERCEL TERCEL WAGON TERCEL WAGON 2W TERCEL WAGON 4W TRUCK 2WD TRUCK 4WD
TOYOTA	89465-29165	29,853	\$ 79.85	NOT SPECIFIED	NO KNOWN AFTERMARKET APPLICATIONS			86 86	GTY2.0V5FB88 GTY2.0V5FBH9	CELICA CELICA
TOYOTA	89465-39105	364,388	\$ 79.85	NOT SPECIFIED	NO KNOWN AFTERMARKET APPLICATIONS			83 84 85 86	DTY2.0V5FB80 ETY2.0V5FB81 FTY2.0V5FB82 GTY2.0V5FB83	CAMRY CAMRY CAMRY CAMRY CELICA
VOLKSWAGON	025906265	40,273	\$ 94.45	NOT SPECIFIED	FRAM	02822	\$ 64.84	84	EW1.9T5CVA2	VANAGON 2WD

(continued)

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					BRAND NAME	PART NUMBER	RETAIL PRICE (b)	MODEL YEAR	ENGINE FAMILY	MODELS COVERED
VOLKSWAGON	025906265	(continued)			STANDARD	SG12	\$ 69.41	85	EW1.9T5CVA2	VANAGON 2.0
								85	FW1.9T5CVF8	VANAGON 2.0
VOLKSWAGON	025906265B	CONFIDENTIAL (e)	\$108.50	NOT SPECIFIED	FRAM	02822	\$ 64.84	86	GW2.1T5CVA8	SCIROCCO 16V VANAGON 2.0
VOLKSWAGON	034906265C	CONFIDENTIAL (e)	\$118.50	NOT SPECIFIED	FRAM	02822	\$ 64.84	86	GW1.8V6FGA3	GTI JETTA GLI
VOLKSWAGON	035906265B	725,096	\$ 54.95	NOT SPECIFIED	FRAM	02822	\$ 64.84	81 (c)	BW1.7V6F083	CABRIOLET
					NIE-OFF	FE807	\$ 55.64	81	BW1.7V6FP53	GOLF
					BORG WARNER	OS107	\$ 52.01	82	CW1.7V1FAB6	GOLF/GTI
					ECHLIN	OS500	\$ 64.13	82	CW1.7V6FAC5	JETTA
					STANDARD	SG8	\$ 63.70	82	CW1.7V6FAF8	QUANTUM
								82	CW1.7V6FBFX	QUANTUM WAGON
								82	CW1.7V6FSC7	RABBIT
								82	CW1.7V6FSFX	RABBIT CONVERTI
								83	DW1.7V1FAB7	SCIROCCO
								83	DW1.7V6FAC6	
								83	DW1.7V6FAF9	
								83	DW1.8V6FAAX	
								84	DW1.7V6FAC6	
								84	EW1.7V1FAB8	
								84	EW1.7V6FAFX	
								84	EW1.8V6FAC2	
								84	EW1.8V6FAF5	
								84	EW2.2V6FBF1	
								85	EW1.8V6FAF5	
								85	FW1.8V6FAC3	
								85	FW1.8V6FC04	
								85	FW2.2V6FECX	
								86	GW1.8V6FAC4	
								86	GW1.8V6FAF7	
								86	GW1.8V6FSC6	
								86	GW1.8V6FSF9	
								86	GW2.2V6FBF3	

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
mitsubishi	MD073461	29,386	NO KNOWN AFTERMARKET APPLICATIONS			\$272.52	86	MONTERO POWER RAM50 4WD RAM50 2WD TRUCK 2WD
mitsubishi	MD076706	15,115	NO KNOWN AFTERMARKET APPLICATIONS			\$272.05	84	CORDIA TREDIA
							86	CORDIA TREDIA
HONDA	36531-PC7-663	127,900	NO KNOWN AFTERMARKET APPLICATIONS			\$215.32	84	PRELUDE
							85	PRELUDE
HONDA	36531-PD2-663	288,650	NO KNOWN AFTERMARKET APPLICATIONS			\$215.32	84	ACCORD
							85	ACCORD
HONDA	36531-PD6-662	127,933	NO KNOWN AFTERMARKET APPLICATIONS			\$215.32	85	ACCORD
HONDA	36531-PE1-662	169,212	NO KNOWN AFTERMARKET APPLICATIONS			\$215.32	85	CIVIC CIVIC COUPE CIVIC WAGON CIVIC WAGON 4WD
HONDA	36531-PE2-904	66,731	NO KNOWN AFTERMARKET APPLICATIONS			\$215.32	84	CIVIC CIVIC COUPE CIVIC WAGON
HONDA	36531-PE2-905	66,731	NO KNOWN AFTERMARKET APPLICATIONS			\$215.32	84	CIVIC CIVIC COUPE CIVIC WAGON
HONDA	36531-PH2-004	6,401	NO KNOWN AFTERMARKET APPLICATIONS			\$215.32	85	PRELUDE
mitsubishi	MD073546	32,449	NO KNOWN AFTERMARKET APPLICATIONS			\$178.28	83	STARION
							84	CONQUEST STARION

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
MITSUBISHI	MD073546	(continued)					86	CONQUEST STARION
MITSUBISHI	MD078791	23,810	NO KNOWN AFTERMARKET APPLICATIONS			\$176 88	85	GALANT
							86	GALANT
MITSUBISHI	MD089922	200,371	STANDARD	SG12	\$ 69 41	\$176 38	85	COLT MIRAGE
							86	COLT
MITSUBISHI	MD077621	29,719	NO KNOWN AFTERMARKET APPLICATIONS			\$176 20	85	COLT MIRAGE
							86	COLT MIRAGE
MITSUBISHI	MD117240	367,922	NO KNOWN AFTERMARKET APPLICATIONS			\$160 95	84	COLT COLT VISTA CORDIA PRECIS SPACE WAGON TREDIA
							85	COLT VISTA COLT VISTA 4WD CORDIA MONTERO 4WD POWER RAMEO P/U RAMEO PICKUP 2W SPACE WAGON TREDIA TRUCK 2WD TRUCK 4WD
							86	COLT VISTA COLT VISTA 4WD CORDIA

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED	
MITSUBISHI	MD117240	(continued)						RAMSO 2WD TREDIA TRUCK 2WD	
CHRYSLER CORP	MD073036	185,877	STANDARD	SG12	\$ 69.41	\$155.00	84	600 600 CONVERTIBLE ARIES ARIES WAGON E CLASS/NEW YOR EXEC SEDAN/LIMO LEBARON LEBARON CONVERT RELIANT RELIANT WAGON TOWN & COUNTRY	
							85	600 600 CONVERTIBLE ARIES ARIES WAGON CARAVELLE EXEC SEDAN/LIMO LEBARON LEBARON CONVERT NEW YORKER RELIANT RELIANT WAGON TOWN & COUNTRY	
NISSAN	D1F	41,943	NO KNOWN AFTERMARKET APPLICATIONS				\$141.90	86	CAB CHASSIS 2WD TRUCK 2WD (NEW) TRUCK 4WD (NEW)
AMC/JEEP	7700708955	15,077	FRAM	02821	\$ 64.84	\$140.00	83	ALLIANCE	
			AC DELCO	213-7	\$ 50.30				
			NITE-OFF	FE805	\$ 52.01		84	ALLIANCE/ENCORE	
NISSAN	A24-601	180,074	FRAM	02821	\$ 64.84	\$138.33	84	200 SX 200SX 300 ZX	
			STANDARD	SG9	\$ 61.73				

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED	
NISSAN	A24-601	(continued)						300ZX 300ZX 2+2	
							85	200 SX 200SX 300 ZX 300ZX 300ZX 2+2 MAXIMA MAXIMA WAGON PULSAR SENTRA SENTRA WAGON	
							86	200 SX TURBO MAXIMA MAXIMA WAGON	
NISSAN	A24-611	95,483	FRAM	Q2821	\$ 64 84	\$138 33	85	200 SX 200SX 300 ZX 300ZX 300ZX 2+2 MAXIMA MAXIMA WAGON	
							86	200 SX TURBO MAXIMA MAXIMA WAGON	
NISSAN	D2F	66,803	FRAM	Q2821	\$ 64 84	\$138 20	86	300 ZX 300ZX 300ZX 2+2 STANZA WAGON 4W	
NISSAN	A24-601000	UNKNOWN	NO KNOWN AFTERMARKET APPLICATIONS				\$136.11	84	300 ZX
NISSAN	A24-621	44,149	FRAM	Q2821	\$ 64 84	\$136.11	85	300ZX 300ZX 2+2	
							86	200 SX TURBO	

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED	
NISSAN	A24-621	(continued)						MAXIMA MAXIMA WAGON	
MAZDA	FE8618861	78,364	NIEHOFF	FE814	\$ 99 71	\$122.65	86	B2000	
MAZDA	B60118861	79,565	NO KNOWN AFTERMARKET APPLICATIONS			\$119 00	86	323	
MAZDA	E56318861	130,157	NIEHOFF	FE812	\$ 99 71	\$119 00	83	626	
			NIEHOFF	FE813	\$ 99 71			GLC	
			BORG WARNER	OS112	\$ 99 71			LASER	
			BORG WARNER	OS113	\$ 99 71				
			ECHLIN	OS502	\$119 87			84	626
			ECHLIN	OS503	\$119 87				
MAZDA	E56418861	59,881	STANDARD	SG12	\$ 69 41		85	626	
			NIEHOFF	FE813	\$ 99 71	\$119 00	84	GLC	
			BORG WARNER	OS113	\$ 99 71			LASER	
			ECHLIN	OS503	\$119 87				
STANDARD	SG12	\$ 69 41	85	GLC LASER					
MAZDA	E56518861	59,881	NIEHOFF	FE813	\$ 99 71	\$119.00	84	GLC	
			BORG WARNER	OS113	\$ 99 71			LASER	
			ECHLIN	OS503	\$119 87				
			STANDARD	SG12	\$ 69 41			85	GLC LASER
MAZDA	FE0518861	130,157	NIEHOFF	FE812	\$ 99 71	\$119.00	83	626	
			NIEHOFF	FE813	\$ 99 71			GLC	
			BORG WARNER	OS112	\$ 99 71			LASER	
			BORG WARNER	OS113	\$ 99 71				
			ECHLIN	OS502	\$119 87			84	626
			ECHLIN	OS503	\$119 87				
MAZDA	FEH118861	47,064	STANDARD	SG12	\$ 69 41		85	626	
			NIEHOFF	FE812	\$ 99 71	\$119 00	86	626	
MAZDA	FEH218861	47,064	NIEHOFF	FE812	\$ 99 71	\$119.00	86	626	
MAZDA	N30418861	17,840	NIEHOFF	FE813	\$ 99 71	\$119.00	84	RX-7	

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
MAZDA	N30418861	(continued)	BORG WARNER ECHLIN	OS113 OS503	\$ 99 71 \$119 87		85	RX-7
MAZDA	N32618861	50,924	NIEHOFF	FEB13	\$ 99 71	\$119 00	86	RX-7
VOLKSWAGON	034906265C	38,627	FRAM	02822	\$ 64 84	\$118 50	86	GTI JETTA GLI SCIROCCO 16V
VOLKSWAGON	025906265B	10,362	FRAM	02822	\$ 64 84	\$108 50	86	VANAGON 2WD
NISSAN	A24-000	38,311	FRAM NIEHOFF BORG WARNER ECHLIN STANDARD	02821 FEB06 OS106 OS401 SG9	\$ 64 84 \$ 52 01 \$ 52 01 \$ 64 10 \$ 61 73	\$ 94 81	82 83 85 86	NISSAN SENTRA NISSAN SENTRA 200SX 200 SX 200SX
NISSAN	A24-000001	65,498	FRAM STANDARD	02821 SG9	\$ 64 84 \$ 61 73	\$ 94 81	82 83 84	NISSAN SENTRA 200SX NISSAN CAB CHAS NISSAN PICKUP 2 NISSAN PICKUP 4 MAXIMA MAXIMA WAGON PICKUP 2WD PICKUP 4WD PICKUP CAB CHAS
NISSAN	A24-000050	70,734	FRAM STANDARD	02821 SG9	\$ 64 84 \$ 61 73	\$ 94 81	84	200SX MAXIMA MAXIMA WAGON STANZA
NISSAN	A24-000372	421,055	FRAM	02821	\$ 64 84	\$ 94 81	81	200SX

(continued)

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TABLE 3

VEHICLE MANUFACTURER	OEM SENSOR PART NUMBER	TOTAL SALES VOLUME (a)	AFTERMARKET SENSOR DATA			OEM SENSOR APPLICATIONS		
			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
NISSAN	A24-000372	(continued)	STANDARD	SG9	\$ 61.73	\$ 94.81	81	280 ZX 280ZX 280ZX 2+2 810 810 WAGON
							82	200SX 280ZX 280ZX 2+2 810 810 WAGON
							83	280 ZX 280 ZX 2+2 280ZX 280ZX 2+2 810 810 WAGON
							84	MAXIMA MAXIMA WAGON
NISSAN	A24-600	621,184	FRAM	Q2821	\$ 64.84	\$ 94.81	83	NISSAN SENTRA NISSAN SENTRA W PULSAR
			NIEHOFF	FE806	\$ 52.01			
			BORG WARNER	OS106	\$ 52.01			
			ECHLIN	OS401	\$ 64.10			
			STANDARD	SG9	\$ 61.73			
84	PULSAR/PULSAR-H SENTRA SENTRA WAGON							
85	200SX CAB CHASSIS 2WD PULSAR SENTRA SENTRA WAGON STANZA TRUCK 2WD TRUCK 4WD							
86	200 SX							

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
NISSAN	A24-600	(continued)						200SX CAB CHASSIS 2WD PULSAR SENTRA SENTRA WAGON STANZA STANZA WAGON 2W TRUCK 2WD TRUCK 2WD (NEW) TRUCK 4WD TRUCK 4WD (NEW)
NISSAN	A24-600001	170,032	FRAM STANDARD	02821 SG9	\$ 64 84 \$ 61 73	\$ 94 81	83	200SX 280 ZX 280 ZX 2+2 280ZX 280ZX 2+2 810 810 WAGON NISSAN CAB CHAS NISSAN PICKUP 2 NISSAN PICKUP 4
							84	200SX MAXIMA MAXIMA WAGON PICKUP 2WD PICKUP 4WD PICKUP CAB CHAS STANZA
NISSAN	A24-600003	6,797	STANDARD	SG9	\$ 61 73	\$ 94 81	83	PULSAR
NISSAN	A24-610	422,251	FRAM NIEHOFF BOEG WAPNER ECHLIN STANDARD	02821 FE806 05106 05401 SG9	\$ 64 84 \$ 52 01 \$ 52 01 \$ 64 10 \$ 61 73	\$ 94.81	85	200SX CAB CHASSIS 2WD PULSAR SENTRA SENTRA WAGON STANZA TRUCK 2WD

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
NISSAN	A24-610	(continued)						TRUCK 4WD
							86	200 SX 200SX CAB CHASSIS 2WD PULSAR SENTRA SENTRA WAGON STANZA STANZA WAGON 2W TRUCK 2WD TRUCK 4WD
NISSAN	A24-620	119,277	FRAM	02821	\$ 64.84	\$ 94.81	85	200SX
			NIEHOFF	FE806	\$ 52.01			
			BORG WARNER	05106	\$ 52.01		86	200 SX
			ECHLIN	05401	\$ 64.10			200SX
			STANDARD	SG9	\$ 61.73			STANZA WAGON 2W TRUCK 2WD (NEW) TRUCK 4WD (NEW)
VOLKSWAGON	025906265	40,273	FRAM	02822	\$ 64.84	\$ 94.45	84	VANAGON 2WD
			STANDARD	SG12	\$ 69.41			
							85	VANAGON 2WD
TOYOTA	88465-19026	19,251	NO KNOWN AFTERMARKET APPLICATIONS			\$ 79.85	80	CRESSIDA SUPRA
TOYOTA	88465-19055	1,361,115	NO KNOWN AFTERMARKET APPLICATIONS			\$ 79.85	81	COROLLA COROLLA WAGON
							82	COROLLA COROLLA WAGON
							83	CELICA STARLET
							84	CARGO VAN 2WD CELICA

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
TOYOTA	89465-19055	(continued)						TRUCK 2WD VAN 2WD
							85	1-TON TRUCK 2WD 4-RUNNER 4WD CAB CHASSIS 2WD CARGO VAN 2WD TRUCK 2WD TRUCK 4WD VAN 2WD
							86	1-TON TRUCK 2WD 4-RUNNER 4WD CAB/CHASSIS CARGO VAN 2WD TRUCK 2WD TRUCK 4WD VAN 2WD
TOYOTA	89465-19135	41,259	NO KNOWN AFTERMARKET APPLICATIONS			\$ 79 85	85	COROLLA SPORT MR2
							86	COROLLA SPORT MR2
TOYOTA	89465-19155	21,878	NO KNOWN AFTERMARKET APPLICATIONS			\$ 79 85	86	SUPRA
TOYOTA	89465-29045	564,038	NO KNOWN AFTERMARKET APPLICATIONS			\$ 79 85	81	3/4 TON 2WD CELICA COROLLA CORONA CORONA WAGON TERCEL TRUCK 2WD TRUCK 4WD
							82	3/4 TON TRUCK 2 CAB CHASSIS CELICA COROLLA TERCEL

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
TOYOTA	89465-29045	(continued)						
								CORONA CORONA WAGON TRUCK 2WD TRUCK 4WD
							83	CAB CHASSIS CELICA TRUCK 2WD TRUCK 4WD
							84	4-RUNNER 4WD CAB CHASSIS 2WD TRUCK 2WD TRUCK 4WD
							85	COROLLA SPORT MR2
							86	COROLLA SPORT MR2
TOYOTA	89465-29075	1,638,689	NO KNOWN AFTERMARKET APPLICATIONS			\$ 79 85		
							81	CELICA SUPRA CRESSIDA CRESSIDA WAGON
							82	CELICA SUPRA CRESSIDA CRESSIDA WAGON
							83	CELICA SUPRA COROLLA COROLLA WAGON CRESSIDA CRESSIDA WAGON TERCEL TERCEL WAGON 4W
							84	CELICA SUPRA COROLLA COROLLA SPORT

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
TOYOTA	89465-29075	(continued)						CRESSIDA CRESSIDA WAGON TERCEL TERCEL WAGON TERCEL WAGON 4W 85 CELICA SUPRA COROLLA COROLLA SPORT CRESSIDA CRESSIDA WAGON TERCEL TERCEL WAGON TERCEL WAGON 2W TERCEL WAGON 4W 86 4-RUNNER 4WD CELICA SUPRA COROLLA COROLLA SPORT CRESSIDA CRESSIDA WAGON TERCEL TERCEL WAGON 2W TERCEL WAGON 4W TRUCK 2WD TRUCK 4WD
TOYOTA	89465-29165	29,853	NO KNOWN AFTERMARKET APPLICATIONS			\$ 79 85	86	CELICA
TOYOTA	89465-39105	364,388	NO KNOWN AFTERMARKET APPLICATIONS			\$ 79 85	83 84 85 86	CAMRY CAMRY CAMRY CAMRY CELICA
VOLKSWAGON	035906265B	725,096	FRAM	02822	\$ 64 84	\$ 54 95	81	JETTA

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED	
VOLKSWAGON	085906268B	(continued)	NIEHOFF	FE807	\$ 55 64		82	RABBIT	
			BORG WARNER	06107	\$ 52 01			SCIROCCO	
			ECHLIN	05500	\$ 64 13			JETTA	
			STANDARD	SG8	\$ 63 70			QUANTUM	
								QUANTUM WAGON	
								RABBIT	
								SCIROCCO	
								83	JETTA
								QUANTUM	
								QUANTUM WAGON	
								RABBIT	
								RABBIT CONVERTI	
			SCIROCCO						
			84	JETTA					
			QUANTUM						
			QUANTUM WAGON						
			RABBIT						
			RABBIT CONVERTI						
			SCIROCCO						
			85	CABRIOLET					
			GOLF/GTI						
			JETTA						
			QUANTUM						
			SCIROCCO						
			86	CABRIOLET					
			GOLF						
			JETTA						
			QUANTUM						
			QUANTUM WAGON						
			SCIROCCO						
FORD MOTOR CO	E63Z 9F472-A	1,145,062	BOSCH	0258002908	\$ 59 20	\$ 49 62	84	BRONCO 4WD	
			BOSCH	0258002909	\$ 59 20			E150 CLUB WAGON	
			FRAM	02823	\$ 64 84			E150 ECONOLINE	
			AC_DELCO	213-5	\$ 50 25			E250 ECONOLINE	

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)		MODEL YEAR	MODELS COVERED
FORD MOTOR CO	E63Z 9F472-A	(continued)	NIEHOFF	FE800	\$ 52 01			F150 PICKUP 2WD F150 PICKUP 4WD F250 PICKUP 2WD F250 PICKUP 4WD TEMPO TOPAZ
			BORG WARNER	OS104	\$ 52 01			
			ECHLIN	OS201	\$ 62 53			
			STANDARD	SG2	\$ 61 95			
							85	BRONCO 4WD E150 E150 CLUB WAGON E250 ECONOLINE F150 F150 PICKUP 4WD F250 PICKUP 2WD F250 PICKUP 4WD TEMPO TOPAZ
FORD MOTOR CO	E6TZ 9F472-A	122,688	BOSCH	0258002908	\$ 59 20	\$ 49 62	84	CAPRI COUGAR MUSTANG THUNDERBIRD
			BOSCH	0258003913	\$101 00			
			FRAM	02784	\$ 64 84			
			FRAM	02823	\$ 64 84			
			AC_DELOO	213-5	\$ 50 25			
			NIEHOFF	FE810	\$ 56 90		85	MUSTANG RANGER PICKUP 2 RANGER PICKUP 4 RANGER PICKUP C
			BORG WARNER	OS110	\$ 56 90			
			ECHLIN	OS203	\$ 63 70			
			STANDARD	SG1	\$ 62 90			
FORD MOTOR CO	E6ZZ 9F472-A	3,744,403	BOSCH	0258002908	\$ 59 20	\$ 49 62	81-85 (c)	BRONCO 4WD BRONCO II 4WD CAPRI CONT. MARK VI CONTINENTAL COUGAR COUGAR WAGON CROWN VICTORIA E100/150 2WD (C) E100/150 2WD (P) E100/E150 ECONO E150
			BOSCH	0258002909	\$ 59 20			
			BOSCH	0258003913	\$101 00			
			FRAM	02784	\$ 64 84			
			FRAM	02823	\$ 64 84			
			AC_DELOO	213-5	\$ 50 25			
			AC_DELOO	213-7	\$ 50 30			
			NIEHOFF	FE801	\$ 52 01			
			BORG WARNER	OS100	\$ 52 01			
			ECHLIN	OS200	\$ 63 70			
			STANDARD	SG1	\$ 62 90			

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
FORD MOTOR CO	E6ZZ 9F47Z-A	(continued)						E150 CLUB WAGON E150 ECONOLINE E250 2WD (CARGO) E250 ECONOLINE ESCORT ESCORT WAGON EXP F100/F150 P/U 2 F100/F150 PICKU F150 F150 P/U 4WD F150 PICKUP 2WD F150 PICKUP 4WD F250 P/U CC 2W F250 P/U 2WD F250 P/U 4WD F250 PICKUP 2WD F250 PICKUP 4WD F250 PICKUP CC FAIRMONT FAIRMONT FUTURA FAIRMONT WAGON GRANADA GRANADA WAGON GRAND MARQUIS GRAND MARQUIS W LTD CROWN VICTO LN7 LTD LTD WAGON LYNX LYNX WAGON MARK VI MARK VII MARQUIS MARQUIS WAGON MUSTANG RANGER P/U CC RANGER PICKUP 2 RANGER PICKUP 4

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)		MODEL YEAR	MODELS COVERED
FORD MOTOR CO	E6ZZ 9F472-A	(continued)						RANGER PICKUP C THUNDERBIRD TOWN CAR XR4T1 XR7 ZEPHYR ZEPHYR WAGON
AMC/JEEP	8953000886	7,625	FRAM STANDARD	02820 SG5	\$ 59 33 \$ 59 93	\$ 45 00	85	XJ XJ-2WD
CHRYSLER CORP	4301375	3,864,860	FRAM FRAM AC_DELOO NIE-OFF BORG WARNER ECHLIN	02747 02769 213-6 FE804 OS101 OS300	\$ 52 86 \$ 52 86 \$ 50 25 \$ 46 81 \$ 50 10 \$ 57 67	\$ 41 50	80-86 (c)	024 024/DE TOMASO 400 400 CONVERTIBLE 600 600 CONVERTIBLE AD150 RAMCHARGE AD150 RAMCHARGE AD150 RAMCHGR ARIES ARIES WAGON ASPEN AW150 RAMCHARGE AW150 RAMCHARGE AW150 RAMCHGR AW150 RAMCHGR B150/250 WAGON B150/B250 VAN B150/B250 VAN 2 B150/B250 WAGON B150/B250 WGN B350 VAN 2WD B350 WAGON 2WD B350 WGN 2WD CARAVAN 2WD CARAVELLE CHARGER CHRYSLER 300 CORDOBA D100 2WD

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
CHRYSLER CORP	4301375	(continued)						D100/D150 P/U D100/D150 P/U 2 D100/D150 PICKU D150 2WD D150 P/U 2WD D250 P/U 2WD D250 PICKUP 2WD DAYTONA DIPLOMAT DIPLOMAT SALON DIPLOMAT WAGON De TAMASO E CLASS/NEW YOR FIFTH AVENUE ED FURY GRAN FURY HORIZON HORIZON TCS IMPERIAL LANCER LASER LASER/DAYTONA LEBARON LEBARON CONVERT LEBARON GTS LEBARON WAGON Le BARON LeBARON MIRADA NEW YORKER NEWPORT NEWPORT/FIFTH A OMNI OMNI Q24 PB150/250 VYGR PB350 VYGR 2WD RAM VAN 2WD RAMPAGE 2WD RELIANT RELIANT WAGON

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
CHRYSLER CORP.	4301375	(continued)						SPECIAL ST. REGIS TC3 TC3/TURISMO TOWN & COUNTRY TURISMO VOLARE VOYAGER 2WD W100/W150 4WD W100/W150 P/U W100/W150 P/U 4 W100/W150 PICKU W150 P/U 4WD W250 P/U 4WD
CHRYSLER CORP	4301346	827,213	FRAM FRAM AC_DELCO NIEHOFF BORG WARNER ECHLIN STANDARD	02747 02769 213-6 FE804 05101 05300 SG6	\$ 52 86 \$ 52 86 \$ 50 25 \$ 46 81 \$ 50 10 \$ 57 67 \$ 59 93	\$ 37 98	84-86 (c)	600 600 CONV 600 CONVERTIBLE AD150 RAMCHARGR AD150 RAMCHGR ARIES ARIES WAGON AW150 RAMCHARGR AW150 RAMCHGR B150/250 WAGON B150/B250 VAN B150/B250 VAN 2 B150/B250 WGN B350 VAN 2WD B350 WAGON 2WD CARAVELLE CHARGER D100 2WD D100/D150 P/U D150 2WD D150 P/U 2WD D250 P/U 2WD DAYTONA DIPLOMAT E CLASS/NEW YOR

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
CHRYSLER CORP	4301346	(continued)						GRAN FURY HORIZON LANCER LASER LASER/DAYTONA LEBARON LEBARON CONVERT LEBARON GTS LIMOUSINE LeBARON LeBARON CNVT LeBARON GTS NEW YORKER NEWPORT/FIFTH A OMNI RELIANT RELIANT WAGON TOWN & COUNTRY TURISMO W100/W150 P/U W150 P/U 4WD W250 P/U 4WD
AMC/JEEP	8833002455	843,688	FRAM	02784	\$ 64.84	\$ 37.70	81	CONCORD CONCORD WAGON SPIRIT
			FRAM	02820	\$ 59.33			
			FRAM	02821	\$ 64.84			
			AC DELCO	213-7	\$ 50.30			
			NITE-HOFF	FE805	\$ 52.01			
			BORG WARNER	05105	\$ 55.64			
			EDHLIN	05400	\$ 64.10			
			STANDARD	SG1	\$ 62.90			
								82
						83	ALLIANCE CHEROKEE/WAGONE CJ-5/7 4WD	

(continued)

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AMC/JEEP	8933002455	(continued)						CONCORD CONCORD WAGON EAGLE 4WD EAGLE SX/4 4WD J-10 PICKUP 4WD SCRAMBLER PICKU SPIRIT
							84	ALLIANCE/ENCORE CHEROKEE/WAGONE CJ-7 4WD DJ PO VEHICLE 2 EAGLE 4WD FJ-8C P O VEHIC GRAND WAGONEER J-10 PICKUP 4WD SCRAMBLER PICKU
							85	ALLIANCE/ENCORE CJ-7 SCRAMBLER XJ XJ-2WD
							86	CJ-7 SCRAMBLER XJ XJ-2WD
GENERAL MOTORS	25105107	18,074,024	FRAM	02820	\$ 59.33	\$ 37.11	82-86 (c)	1000 2000 2000 CONVERTIBL 2000 SUNBIRD 2000 SUNBIRD CO 2000 SUNBIRD WA 2000 WAGON 6000 6000 WAGON ASTRO 2WD(PASS) ASTRO2WD(CARGO)
			FRAM	02824	\$ 59.33			
			NIEH-OFF	FE803	\$ 46.90			
			ECHLIN	OS101	\$ 59.28			
			BORG WARNER	OS102	\$ 46.90			
			STANDARD	SG5	\$ 59.93			

(continued)

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			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
GENERAL MOTORS	25105107	(continued)						BONNEVILLE BONNEVILLE WAGON BONNEVILLE WAGON C10 PICKUP 2WD C10 SUBURBAN 2W C10 SUBURBAN 2WD C15 PICKUP 2WD C15 SUBURBAN 2W C15 SUBURBAN 2WD C20 PICKUP 2WD C25 PICKUP 2WD CABALLERO P/U 2 CABALLERO PICKU CABALLERO PU 2W CABALLERO PU2WD CALAIS CAMARO CAPRICE CAPRICE WAGON CAVALIER CAVALIER CONV CAVALIER CONV CAVALIER CONVER CAVALIER WAGON CELEBRITY CELEBRITY WAGON CENTURY CENTURY ESTATE CENTURY WAGON CHEVETTE CHEVETTE CS CIMARRON CITATION CITATION II CORVETTE CUSTOM CRSR WGN CUSTOM CRUISER CUTLASS Ciera CUTLASS CRSR WG CUTLASS CRUISER

(continued)

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VEHICLE MANUFACTURER	OEM SENSOR PART NUMBER	TOTAL SALES VOLUME (a)	AFTERMARKET SENSOR DATA			OEM SENSOR APPLICATIONS		
			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
GENERAL MOTORS	25105107	(continued)						CUTLASS SUPREME DELTA 88 DELTA 88 ROYALE DEVILLE DEVILLE/BROUGH EL CAMINO P/U 2 EL CAMINO PICKU EL CAMINO PU 2W EL CAMINO PU2WD ELDORADO ELDORADO CONV ELECTRA ELECTRA (RWD) ELECTRA ESTATE FIERO FIREBIRD FIRENZA FIRENZA CRUISER FIRENZA CSR WAG FLTWD BRM (RWD) FLTWD/BRM FLTWD/DVIL (FWD) G10/20 SPAN 2WD G10/20 VAN 2WD G10/G20 SPORTVA G10/G20 VAN 2WD G15/25 RALLY2WD G15/25 VORA 2WD G15/G25 RALLY 2 G15/G25 VANDURA G30 SPORTVAN 2W G30 SPRTVAN 2WD G35 RALLY 2WD GRAND AM GRAND PRIX IMPALA/CAPRICE J2000 J2000 WAGON K10 BLAZER 4WD K10 PICKUP 4WD

(continued)

- (a) Based on engine family sales data. Oxygen sensor sales data have been split equally when multiple part numbers can be applied to the same engine family
 (b) Manufacturer suggested retail price. Actual price may vary.

TABLE 3

VEHICLE MANUFACTURER	OEM SENSOR PART NUMBER	TOTAL SALES VOLUME (a)	AFTERMARKET SENSOR DATA			OEM SENSOR APPLICATIONS		
			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
GENERAL MOTORS	25105107	(continued)						K10 SUBURBAN 4W K10 SUBURB 4WD K15 JIMMY 4WD K15 PICKUP 4WD K15 SUBURBAN K15 SUBURB 4WD LESAB/ELEC WGN LESABRE LESABRE/ELECTRA LIMOUSINE MALIBU MALIBU WAGON MONTE CARLO NINETY-EIGHT NINETYEIGHT REG OMEGA PARISIENNE PARISIENNE WAGO PARISIENNE WGN PHOENIX REGAL REGAL ESTATE WA RIVIERA CONVERT RIVIERA RIVIERA CONVERT S10 BLAZER 2WD S10 CA CHAS 2WD S10 CAB CHASSIS S10 P/U 2WD S10 PICKUP 2WD S15 CA CHAS 2WD S15 CAB CHASSIS S15 JIMMY 2WD S15 P/U 2WD S15 PICKUP 2WD SAFARI2WD(CARG) SAFARI2WD(PASS) SEVILLE SKYHAWK SKYHAWK WAGON

(continued)

- (a) Based on engine family sales data. Oxygen sensor sales data have been split equally when multiple part numbers can be applied to the same engine family.
 (b) Manufacturer suggested retail price. Actual price may vary.

TABLE 3

VEHICLE MANUFACTURER	OEM SENSOR PART NUMBER	TOTAL SALES VOLUME (a)	AFTERMARKET SENSOR DATA			OEM SENSOR APPLICATIONS		
			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
GENERAL MOTORS	25105107	(continued)						SKYLARK SOMERSET REGAL SOMERSET/LARK SUNBIRD SUNBIRD CONV SUNBIRD CONVERT SUNBIRD WAGON T10 BLAZER 4WD T10 PICKUP 4WD T1000 T15 JIMMY 4WD T15 PICKUP 4WD TORONADO
GENERAL MOTORS	25106169	3,937,222	FRAM NIEHOFF ECHLIN BORG WARNER STANDARD	02824 FEB02 05100 05103 SG3	\$ 59 33 \$ 46 90 \$ 59 28 \$ 46 90 \$ 59 93	\$ 36 71	81	CABALLERO P/U 2 CAMARO CATALINA/BONNE CATALINA/BONNE CENTURY CENTURY WAGON CHEVETTE CITATION CORVETTE CUSTOM CRUISER CUTLASS CUTLASS SUPREM/ CUTLASS WAGON DELTA 88 DEVILLE/BROUGH EL CAMINO P/U 2 ELDORADO ELECTRA FIREBIRD GRAND PRIX IMPALA/CAPRICE LEMANS LEMANS SAFARI W LESABRE LESABRE/ELECTRA LIMOUSINE

(continued)

- (a) Based on engine family sales data. Oxygen sensor sales data have been split equally when multiple part numbers can be applied to the same engine family.
(b) Manufacturer suggested retail price. Actual price may vary

TABLE 3

VEHICLE MANUFACTURER	OEM SENSOR PART NUMBER	TOTAL SALES VOLUME (a)	AFTERMARKET SENSOR DATA			OEM SENSOR APPLICATIONS		
			BRAND NAME	PART NUMBER	RETAIL PRICE (b)	OEM SENSOR RETAIL PRICE (b)	MODEL YEAR	MODELS COVERED
GENERAL MOTORS	25106169	(continued)						MALIBU MALIBU WAGON MONTE CARLO NINETY-EIGHT OMEGA PHOENIX REGAL RIVIERA SEVILLE SKYLARK T1000 TORONADO
							82	DEVILLE/BROUGHAM ELDORADO SEVILLE
							83	DEVILLE/BROUGHAM ELDORADO SEVILLE
							84	BROUGHAM/DEVILLE ELDORADO ELDORADO CONVER SEVILLE

(a) Based on engine family sales data. Oxygen sensor sales data have been split equally when multiple part numbers can be applied to the same engine family

(b) Manufacturer suggested retail price. Actual price may vary

TABLE 4- 1 OXYGEN SENSORS WITH SIMILAR CONSTRUCTIONAL AND DIMENSIONAL CHARACTERISTICS

CONSTRUCTIONAL CHARACTERISTICS		DIMENSIONAL CHARACTERISTICS	
SENSOR MATERIAL	- ZIRCONIA	THREAD SIZE	- 18mm X 1.5mm
SENSOR TYPE	- HEATED	THREAD LENGTH + INSERTION DEPTH	- 26 mm ≤ TL+ID < 28 mm
SWITCH POINT	- 14.70		
NUMBER OF WIRE(S)	- 3		

OEM SENSOR PART NUMBER	RETAIL PRICE (a)	MANUFACTURER OF OEM SENSOR	RECOMMENDED CHANGE OUT INTERVAL	LENGTH OF WIRE(S)	VOLTAGE LIMITS	SPLASH PROTECTION	THREAD LENGTH	THREAD LENGTH + INSERTION DEPTH	SENSOR LENGTH ABOVE THREADS	AFTERMARKET SENSOR DATA		
										BRAND NAME	PART NUMBER	RETAIL PRICE (a)
A24-601	\$138.33	NISSAN	NS	89.0 mm	0.0 TO 1.0	NS	8.000 mm	26.000 mm	85.000 mm	FRAM STANDARD	02821 S99	\$ 64.84 \$ 61.73
A24-611	\$138.33	NISSAN	NS	89.0 mm	0.0 TO 1.0	NS	8.000 mm	26.000 mm	85.000 mm	FRAM	02821	\$ 64.84
A24-601000	\$136.11	NISSAN	NS	79.0 mm	0.0 TO 1.0	NS	8.000 mm	26.000 mm	85.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
A24-621	\$136.11	NISSAN	NS	89.0 mm	0.0 TO 1.0	NS	8.000 mm	26.000 mm	85.000 mm	FRAM	02821	\$ 64.84
025906265B	\$108.50	VOLKSWAGON	NS	535.0 mm	0.0 TO 1.0	NS	7.000 mm	26.000 mm	70.000 mm	FRAM	02822	\$ 64.84
E6TZ 9F472-A	\$ 49.62	FORD MOTOR CO	NS	155.0 mm	NS	NS	6.000 mm	26.000 mm	70.000 mm	BOSCH	0258002908	\$ 59.20
										BOSCH	0258003913	\$101.00
										FRAM	02784	\$ 64.84
										FRAM	02823	\$ 64.84
										AC_DELCO	213-5	\$ 50.25
										NIEHOFF	FE810	\$ 56.90
										BORG WARNER	CS110	\$ 56.90
										ECHLIN	CS203	\$ 63.70
										STANDARD	SG1	\$ 62.90

(a) Manufacturer suggested retail price. Actual price may vary.
NS - Not Specified

TABLE 4- 2 OXYGEN SENSORS WITH SIMILAR CONSTRUCTIONAL AND DIMENSIONAL CHARACTERISTICS

CONSTRUCTIONAL CHARACTERISTICS

SENSOR MATERIAL - ZIRCONIA
 SENSOR TYPE - HEATED
 SWITCH POINT - 14.70
 NUMBER OF WIRE(S) - 3

DIMENSIONAL CHARACTERISTICS

THREAD SIZE - 18mm X 1.5mm
 THREAD LENGTH + INSERTION DEPTH - 24 mm \leq TL+ID < 26 mm

OEM SENSOR PART NUMBER	RETAIL PRICE (a)	MANUFACTURER OF OEM SENSOR	RECOMMENDED CHANGE OUT INTERVAL	LENGTH OF WIRE(S)	VOLTAGE LIMITS	SPLASH PROTECTION	THREAD LENGTH	THREAD LENGTH + INSERTION DEPTH	SENSOR LENGTH ABOVE THREADS	AFTERMARKET SENSOR DATA		
										BRAND NAME	PART NUMBER	RETAIL PRICE (a)
034906265C	\$118.50	VOLKSWAGON	NS	850.0 mm	0.0 TO 1.0	NS	6.500 mm	24.500 mm	68.000 mm	FRAM	02822	\$ 64.84

(a) Manufacturer suggested retail price. Actual price may vary.
 NS - Not Specified

TABLE 4-3 OXYGEN SENSORS WITH SIMILAR CONSTRUCTIONAL AND DIMENSIONAL CHARACTERISTICS

CONSTRUCTIONAL CHARACTERISTICS

SENSOR MATERIAL - ZIRCONIA
 SENSOR TYPE - NON-HEATED
 SWITCH POINT - 14.70
 NUMBER OF WIRE(S) - 2

DIMENSIONAL CHARACTERISTICS

THREAD SIZE - 18mm X 1.5mm
 THREAD LENGTH + INSERTION DEPTH - 30 mm \leq TL+10

OEM SENSOR PART NUMBER	RETAIL PRICE (a)	MANUFACTURER OF OEM SENSOR	RECOMMENDED CHANGE OUT INTERVAL	LENGTH OF WIRE(S)	VOLTAGE LIMITS	SPLASH PROTECTION	THREAD LENGTH	THREAD LENGTH + INSERTION DEPTH	SENSOR LENGTH ABOVE THREADS	AFTERMARKET SENSOR DATA		
										BRAND NAME	PART NUMBER	RETAIL PRICE (a)
25106169	\$ 36.71	GENERAL MOTORS	50000 MILES	220.0 mm	0.2 TO 0.8	MODERATE	8.000 mm	38.000 mm	55.000 mm	FRAM	02824	\$ 59.33
										NIEHOFF	FE802	\$ 46.90
										ECHLIN	0S100	\$ 59.28
										BORG WARNER	0S103	\$ 46.90
										STANDARD	SG3	\$ 59.93
25105107	\$ 37.11	GENERAL MOTORS	50000 MILES	230.0 mm	0.2 TO 0.8	NS	8.000 mm	38.000 mm	50.000 mm	FRAM	02820	\$ 59.33
										FRAM	02824	\$ 59.33
										NIEHOFF	FE803	\$ 46.90
										ECHLIN	0S101	\$ 59.28
										BORG WARNER	0S102	\$ 46.90
STANDARD	SG5	\$ 59.93										

(a) Manufacturer suggested retail price. Actual price may vary.
 NS - Not Specified

TABLE 4- 4 OXYGEN SENSORS WITH SIMILAR CONSTRUCTIONAL AND DIMENSIONAL CHARACTERISTICS

CONSTRUCTIONAL CHARACTERISTICS		DIMENSIONAL CHARACTERISTICS	
SENSOR MATERIAL	- ZIRCONIA	THREAD SIZE	- 18mm X 1.5mm
SENSOR TYPE	- NON-HEATED	THREAD LENGTH + INSERTION DEPTH	- 30 mm \approx TL+ID
SWITCH POINT	- NS		
NUMBER OF WIRE(S)	- 1		

OEM SENSOR PART NUMBER	RETAIL PRICE (a)	MANUFACTURER OF OEM SENSOR	RECOMMENDED CHANGE OUT INTERVAL	LENGTH OF WIRE(S)	VOLTAGE LIMITS	SPLASH PROTECTION	THREAD LENGTH	THREAD LENGTH + INSERTION DEPTH	SENSOR LENGTH ABOVE THREADS	AFTERMARKET SENSOR DATA		
										BRAND NAME	PART NUMBER	RETAIL PRICE (a)
36531-PC7-663	\$215.32	HONDA	NS	285.0 mm	NS	- NS	8.000 mm	30.000 mm	75.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		

(a) Manufacturer suggested retail price. Actual price may vary.
 NS - Not Specified

TABLE 4- 5 OXYGEN SENSORS WITH SIMILAR CONSTRUCTIONAL AND DIMENSIONAL CHARACTERISTICS

CONSTRUCTIONAL CHARACTERISTICS

SENSOR MATERIAL - ZIRCONIA
 SENSOR TYPE - NON-HEATED
 SWITCH POINT - 14.70
 NUMBER OF WIRE(S) - 1

DIMENSIONAL CHARACTERISTICS

THREAD SIZE - 18mm X 1.5mm
 THREAD LENGTH + INSERTION DEPTH - 28 mm ≤ TL+ID < 30 mm

OEM SENSOR PART NUMBER	RETAIL PRICE (a)	MANUFACTURER OF OEM SENSOR	RECOMMENDED CHANGE OUT INTERVAL	LENGTH OF WIRE(S)	VOLTAGE LIMITS	SPASH PROTECTION	THREAD LENGTH	THREAD LENGTH + INSERTION DEPTH	SENSOR LENGTH ABOVE THREADS	AFTERMARKET SENSOR DATA		
										BRAND NAME	PART NUMBER	RETAIL PRICE (a)
MD077621	\$176.20	MITSUBISHI	50000 MILES	239.0 mm	0.0 TO 1.0	MODERATE	8.000 mm	28.000 mm	70.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
025906265	\$ 94.45	VOLKSWAGON	NS	365.0 mm	0.0 TO 1.0	NS	7.000 mm	28.000 mm	58.000 mm	FRAM STANDARD	02822 SG12	\$ 64.84 \$ 69.41
MD078791	\$176.88	MITSUBISHI	50000 MILES	539.0 mm	0.0 TO 1.0	MODERATE	8.000 mm	28.000 mm	70.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
MD076706	\$272.05	MITSUBISHI	50000 MILES	389.0 mm	0.0 TO 1.0	MODERATE	8.000 mm	28.000 mm	70.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
36531-PE2-904	\$215.32	HONDA	NS	495.0 mm	NS	NS	7.000 mm	28.000 mm	76.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
36531-PE2-905	\$215.32	HONDA	NS	498.0 mm	NS	NS	6.000 mm	28.000 mm	71.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
36531-PD6-662	\$215.32	HONDA	NS	357.0 mm	NS	NS	8.000 mm	29.000 mm	75.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
36531-PD2-663	\$215.32	HONDA	NS	265.0 mm	NS	NS	6.000 mm	29.000 mm	71.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
MD089922	\$176.38	MITSUBISHI	50000 MILES	309.0 mm	0.0 TO 1.0	MODERATE	8.000 mm	28.000 mm	70.000 mm	STANDARD	SG12	\$ 69.41
8833002455	\$ 37.70	AMC/JEEP	50000 MILES	100.0 mm	0- 2 TO 6- 95	NS	9.000 mm	29.000 mm	68.000 mm	FRAM	02784	\$ 64.84
										FRAM	02820	\$ 59.33
										FRAM	02821	\$ 64.84
										AC_DELCO	213-7	\$ 50.30
										NIEHOFF	FE805	\$ 52.01
										BORG WARNER	OS105	\$ 55.64
										ECHLIN	OS400	\$ 64.10
										STANDARD	SG1	\$ 62.90
36531-PE1-662	\$215.32	HONDA	NS	500.0 mm	NS	NS	7.000 mm	29.000 mm	71.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
36531-PH2-004	\$215.32	HONDA	NS	235.0 mm	NS	NS	7.500 mm	28.500 mm	75.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		

(continued)

(a) Manufacturer suggested retail price. Actual price may vary.
 NS - Not Specified

TABLE 4- 5 continued. OXYGEN SENSORS WITH SIMILAR CONSTRUCTIONAL AND DIMENSIONAL CHARACTERISTICS

CONSTRUCTIONAL CHARACTERISTICS							DIMENSIONAL CHARACTERISTICS					
SENSOR MATERIAL - ZIRCONIA SENSOR TYPE - NON-HEATED SWITCH POINT - 14.70 NUMBER OF WIRE(S) - 1							THREAD SIZE - 18mm X 1.5mm THREAD LENGTH + INSERTION DEPTH - 28 mm ≤ TL+ID < 30 mm					
OEM SENSOR PART NUMBER	RETAIL PRICE (a)	MANUFACTURER OF OEM SENSOR	RECOMMENDED CHANGE OUT INTERVAL	LENGTH OF WIRE(S)	VOLTAGE LIMITS	SPLASH PROTECTION	THREAD LENGTH	THREAD LENGTH + INSERTION DEPTH	SENSOR LENGTH ABOVE THREADS	AFTERMARKET SENSOR DATA		
										BRAND NAME	PART NUMBER	RETAIL PRICE (a)
4301346	\$ 37.98	CHRYSLER CORP.	50000 MILES	100.0 mm	0- 2 TO 6- 95	MODERATE	9.000 mm	29.000 mm	68.000 mm	FRAM	02747	\$ 52.86
										FRAM	02769	\$ 52.86
										AC DELCO	213-6	\$ 50.25
										NIEHOFF	FE804	\$ 46.81
										BORG WARNER	OS101	\$ 50.10
										ECHLIN	OS300	\$ 57.67
										STANDARD	SG6	\$ 59.98
4301375	\$ 41.50	CHRYSLER CORP.	50000 MILES	100.0 mm	0- 2 TO 6- 95	NS	9.000 mm	29.000 mm	68.000 mm	FRAM	02747	\$ 52.86
										FRAM	02769	\$ 52.86
										AC DELCO	213-6	\$ 50.25
										NIEHOFF	FE804	\$ 46.81
										BORG WARNER	OS101	\$ 50.10
										ECHLIN	OS300	\$ 57.67
										STANDARD	SG6	\$ 59.98
MD073036	\$155.00	CHRYSLER CORP.	NS	63.0 mm	NS	NS	6.000 mm	28.000 mm	73.000 mm	STANDARD	SG12	\$ 69.41
8953000886	\$ 45.00	AMC/JEEP	NS	225.0 mm	NS	NS	9.000 mm	29.000 mm	50.000 mm	FRAM	02820	\$ 59.33
										STANDARD	SG6	\$ 59.98
E63Z 9F472-A	\$ 49.62	FORD MOTOR CO	NS	280.0 mm	NS	NS	7.000 mm	28.000 mm	74.000 mm	BOSCH	0258002908	\$ 59.20
										BOSCH	0258002909	\$ 59.20
										FRAM	02823	\$ 64.84
										AC DELCO	213-5	\$ 50.25
										NIEHOFF	FE800	\$ 52.01
										BORG WARNER	OS104	\$ 52.01
										ECHLIN	OS201	\$ 62.53
										STANDARD	SG2	\$ 61.95
MD117240	\$160.95	MITSUBISHI	50000 MILES	289.0 mm	0.0 TO 1.0	MODERATE	8.000 mm	28.000 mm	70.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		

(a) Manufacturer suggested retail price. Actual price may vary.
 NS - Not Specified

TABLE 4- 6. OXYGEN SENSORS WITH SIMILAR CONSTRUCTIONAL AND DIMENSIONAL CHARACTERISTICS.

CONSTRUCTIONAL CHARACTERISTICS		DIMENSIONAL CHARACTERISTICS	
SENSOR MATERIAL	- ZIRCONIA	THREAD SIZE	- FLANGE TYPE
SENSOR TYPE	- NON-HEATED	THREAD LENGTH + INSERTION DEPTH - 28 mm \leq TL+ID < 30 mm	
SWITCH POINT	- 14.70		
NUMBER OF WIRE(S)	- 1		

OEM SENSOR PART NUMBER	RETAIL PRICE (a)	MANUFACTURER OF OEM SENSOR	RECOMMENDED CHANGE OUT INTERVAL	LENGTH OF WIRE(S)	VOLTAGE LIMITS	SPLASH PROTECTION	THREAD LENGTH	THREAD LENGTH + INSERTION DEPTH	SENSOR LENGTH ABOVE THREADS	AFTERMARKET SENSOR DATA		
										BRAND NAME	PART NUMBER	RETAIL PRICE (a)
89465-19026	\$ 79.85	TOYOTA	30000 MILES	516.5 mm	0.0 TO 1.0	SEVERE	NS	29.500 mm	91.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
M0073546	\$178.28	MITSUBISHI	50000 MILES	388.0 mm	0.0 TO 1.0	MODERATE	NS	29.500 mm	69.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
89465-19055	\$ 79.85	TOYOTA	60000 MILES	212.0 mm	0.0 TO 1.0	SEVERE	NS	29.500 mm	90.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
89465-19155	\$ 79.85	TOYOTA	NS	212.0 mm	0.0 TO 1.0	SEVERE	NS	29.500 mm	90.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
89465-29165	\$ 79.85	TOYOTA	NS	212.0 mm	0.0 TO 1.0	SEVERE	NS	29.500 mm	90.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
89465-29045	\$ 79.85	TOYOTA	NS	212.0 mm	0.0 TO 1.0	SEVERE	NS	29.500 mm	90.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
89465-29075	\$ 79.85	TOYOTA	60000 MILES	362.0 mm	0.0 TO 1.0	SEVERE	NS	29.500 mm	90.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
89465-39105	\$ 79.85	TOYOTA	NS	387.0 mm	0.0 TO 1.0	SEVERE	NS	29.500 mm	65.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
89465-19135	\$ 79.85	TOYOTA	NS	362.0 mm	0.0 TO 1.0	SEVERE	NS	29.500 mm	90.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		

(a) Manufacturer suggested retail price. Actual price may vary.
 NS - Not Specified

TABLE 4-7 OXYGEN SENSORS WITH SIMILAR CONSTRUCTIONAL AND DIMENSIONAL CHARACTERISTICS

CONSTRUCTIONAL CHARACTERISTICS

SENSOR MATERIAL - ZIRCONIA
 SENSOR TYPE - NON-HEATED
 SWITCH POINT - 14.70
 NUMBER OF WIRE(S) - 1

DIMENSIONAL CHARACTERISTICS

THREAD SIZE - 18mm X 1.5mm
 THREAD LENGTH + INSERTION DEPTH - 26 mm \leq TL+ID < 28 mm

OEM SENSOR PART NUMBER	RETAIL PRICE (a)	MANUFACTURER OF OEM SENSOR	RECOMMENDED CHANGE OUT INTERVAL	LENGTH OF WIRE(S)	VOLTAGE LIMITS	SPASH PROTECTION	THREAD LENGTH	THREAD LENGTH + INSERTION DEPTH	SENSOR LENGTH ABOVE THREADS	AFTERMARKET SENSOR DATA		
										BRAND NAME	PART NUMBER	RETAIL PRICE (a)
E56418861	\$119.00	MAZDA	INSPECTION ONLY	238.5 mm	0.2 TO 0.7	MODERATE	7.500 mm	26.500 mm	71.000 mm	NIEHOFF BORG WARNER ECHLIN STANDARD	FEB13 OS113 OS503 SG12	\$ 99.71 \$ 99.71 \$119.87 \$ 69.41
A24-600003	\$ 94.81	NISSAN	NS	127.0 mm	0.0 TO 1.0	NS	8.000 mm	26.000 mm	54.000 mm	STANDARD	SG9	\$ 61.73
E56318861	\$119.00	MAZDA	INSPECTION ONLY	438.5 mm	0.2 TO 0.7	MODERATE	7.500 mm	26.500 mm	71.000 mm	NIEHOFF NIEHOFF BORG WARNER BORG WARNER ECHLIN ECHLIN STANDARD	FEB12 FEB13 OS112 OS113 OS502 OS503 SG12	\$ 99.71 \$ 99.71 \$ 99.71 \$ 99.71 \$119.87 \$119.87 \$ 69.41
A24-000050	\$ 94.81	NISSAN	NS	77.0 mm	0.0 TO 1.0	NS	8.000 mm	26.000 mm	85.000 mm	FRAM STANDARD	02821 SG9	\$ 64.84 \$ 61.73
A24-000372	\$ 94.81	NISSAN	NS	77.0 mm	0.0 TO 1.0	NS	8.000 mm	26.000 mm	54.000 mm	FRAM STANDARD	02821 SG9	\$ 64.84 \$ 61.73
B60118861	\$119.00	MAZDA	INSPECTION ONLY	440.0 mm	0.2 TO 0.7	MODERATE	8.000 mm	27.500 mm	69.000 mm	NO KNOWN AFTERMARKET APPLICATIONS		
A24-000	\$ 94.81	NISSAN	NS	77.0 mm	0.0 TO 1.0	NS	8.000 mm	26.000 mm	54.000 mm	FRAM NIEHOFF BORG WARNER ECHLIN STANDARD	02821 FEB06 OS106 OS401 SG9	\$ 64.84 \$ 52.01 \$ 52.01 \$ 64.10 \$ 61.73
A24-600001	\$ 94.81	NISSAN	NS	77.0 mm	0.0 TO 1.0	NS	8.000 mm	26.000 mm	85.000 mm	FRAM STANDARD	02821 SG9	\$ 64.84 \$ 61.73

(continued)

(a) Manufacturer suggested retail price. Actual price may vary.
 NS - Not Specified

TABLE 4- 7 continued OXYGEN SENSORS WITH SIMILAR CONSTRUCTIONAL AND DIMENSIONAL CHARACTERISTICS

CONSTRUCTIONAL CHARACTERISTICS				DIMENSIONAL CHARACTERISTICS			
SENSOR MATERIAL	- ZIRCONIA	THREAD SIZE	- 18mm X 1.5mm				
SENSOR TYPE	- NON-HEATED	THREAD LENGTH + INSERTION DEPTH	- 26 mm \leq TL+ID < 28 mm				
SWITCH POINT	- 14.70						
NUMBER OF WIRE(S)	- 1						

OEM SENSOR PART NUMBER	RETAIL PRICE (a)	MANUFACTURER OF OEM SENSOR	RECOMMENDED CHANGE OUT INTERVAL	LENGTH OF WIRE(S)	VOLTAGE LIMITS	SPLASH PROTECTION	THREAD LENGTH	THREAD LENGTH + INSERTION DEPTH	SENSOR LENGTH ABOVE THREADS	AFTERMARKET SENSOR DATA		
										BRAND NAME	PART NUMBER	RETAIL PRICE (a)
A24-000001	\$ 94.81	NISSAN	NS	77.0 mm	0.0 TO 1.0	NS	8.000 mm	26.000 mm	54.000 mm	FRAM STANDARD	02821 SGB	\$ 64.84 \$ 61.73
FED518861	\$119.00	MAZDA	INSPECTION ONLY	447.0 mm	0.2 TO 0.7	MODERATE	7.000 mm	27.000 mm	62.000 mm	NIEHOFF NIEHOFF BORG WARNER BORG WARNER ECHLIN ECHLIN STANDARD	FEB12 FEB13 OS112 OS113 OS502 OS503 SG12	\$ 99.71 \$ 99.71 \$ 99.71 \$ 99.71 \$119.87 \$119.87 \$ 69.41
A24-610	\$ 94.81	NISSAN	NS	77.0 mm	0.0 TO 1.0	NS	8.000 mm	26.000 mm	54.000 mm	FRAM NIEHOFF BORG WARNER ECHLIN STANDARD	02821 FEB06 OS106 OS401 SGB	\$ 64.84 \$ 52.01 \$ 52.01 \$ 64.10 \$ 61.73
E56518861	\$119.00	MAZDA	INSPECTION ONLY	237.0 mm	0.2 TO 0.7	MODERATE	7.000 mm	27.000 mm	62.000 mm	NIEHOFF BORG WARNER ECHLIN STANDARD	FEB13 OS113 OS503 SG12	\$ 99.71 \$ 99.71 \$119.87 \$ 69.41
A24-620	\$ 94.81	NISSAN	NS	77.0 mm	0.0 TO 1.0	NS	8.000 mm	26.000 mm	85.000 mm	FRAM NIEHOFF BORG WARNER ECHLIN STANDARD	02821 FEB06 OS106 OS401 SGB	\$ 64.84 \$ 52.01 \$ 52.01 \$ 64.10 \$ 61.73

(continued)

(a) Manufacturer suggested retail price. Actual price may vary.
NS - Not Specified

TABLE 4- 7 continued OXYGEN SENSORS WITH SIMILAR CONSTRUCTIONAL AND DIMENSIONAL CHARACTERISTICS

CONSTRUCTIONAL CHARACTERISTICS

SENSOR MATERIAL - ZIRCONIA
 SENSOR TYPE - NON-HEATED
 SWITCH POINT - NS
 NUMBER OF WIRE(S) - 1

DIMENSIONAL CHARACTERISTICS

THREAD SIZE - 18mm X 1.5mm
 THREAD LENGTH + INSERTION DEPTH - 26 mm \leq TL+ID < 28 mm

OEM SENSOR PART NUMBER	RETAIL PRICE (a)	MANUFACTURER OF OEM SENSOR	RECOMMENDED CHANGE OUT INTERVAL	LENGTH OF WIRE(S)	VOLTAGE LIMITS	SPLASH PROTECTION	THREAD LENGTH	THREAD LENGTH + INSERTION DEPTH	SENSOR LENGTH ABOVE THREADS	AFTERMARKET SENSOR DATA		
										BRAND NAME	PART NUMBER	RETAIL PRICE (a)
E6ZZ 9F472-A	\$ 49.62	FORD MOTOR CO	NS	66.0 mm	NS	NS	7.000 mm	27.000 mm	74.000 mm	BOSCH	0258002908	\$ 59.20
										BOSCH	0258002909	\$ 59.20
										BOSCH	0258003913	\$101.00
										FRAM	02784	\$ 64.84
										FRAM	02823	\$ 64.84
										AC_DELCO	213-5	\$ 50.25
										AC_DELCO	213-7	\$ 50.30
										NIE-OFF	FEB01	\$ 52.01
										BORG WARNER	OS100	\$ 52.01
										ECHLIN	OS200	\$ 63.70
STANDARD	SG1	\$ 62.90										
A24-600	\$ 94.81	NISSAN	NS	77.0 mm	0.0 TO 1.0	NS	8.000 mm	26.000 mm	54.000 mm	FRAM	02821	\$ 64.84
										NIE-OFF	FEB06	\$ 52.01
										BORG WARNER	OS106	\$ 52.01
										ECHLIN	OS401	\$ 64.10
										STANDARD	SG9	\$ 61.73
7700708955	\$140.00	AMC/JEEP	NS	85.0 mm	NS	NS	6.000 mm	26.000 mm	58.000 mm	FRAM	02821	\$ 64.84
										AC_DELCO	213-7	\$ 50.30
										NIE-OFF	FEB05	\$ 52.01
										BORG WARNER	OS105	\$ 55.64
										ECHLIN	OS400	\$ 64.10
STANDARD	SG9	\$ 61.73										
FB218861	\$119.00	MAZDA	INSPECTION ONLY	452.0 mm	0.2 TO 0.7	MODERATE	7.500 mm	26.500 mm	57.000 mm	NIE-OFF	FEB12	\$ 99.71
										BORG WARNER	OS112	\$ 99.71
										ECHLIN	OS502	\$119.87
FB118861	\$119.00	MAZDA	INSPECTION ONLY	457.0 mm	0.2 TO 0.7	MODERATE	7.000 mm	27.000 mm	52.000 mm	NIE-OFF	FEB12	\$ 99.71
										BORG WARNER	OS112	\$ 99.71
										ECHLIN	OS502	\$119.87

(continued)

(a) Manufacturer suggested retail price. Actual price may vary
 NS - Not Specified

TABLE 4- 8 OXYGEN SENSORS WITH SIMILAR CONSTRUCTIONAL AND DIMENSIONAL CHARACTERISTICS.

CONSTRUCTIONAL CHARACTERISTICS

SENSOR MATERIAL - TITANIA
 SENSOR TYPE - HEATED
 SWITCH POINT - 14.70
 NUMBER OF WIRE(S) - 3

DIMENSIONAL CHARACTERISTICS

THREAD SIZE - 12mm X 1.25mm
 THREAD LENGTH + INSERTION DEPTH - 28 mm \leq TL+ID < 30 mm

OEM SENSOR PART NUMBER	RETAIL PRICE (a)	MANUFACTURER OF OEM SENSOR	RECOMMENDED CHANGE OUT INTERVAL	LENGTH OF WIRE(S)	VOLTAGE LIMITS	SPLASH PROTECTION	THREAD LENGTH	THREAD LENGTH + INSERTION DEPTH	SENSOR LENGTH ABOVE THREADS	AFTERMARKET SENSOR DATA		
										BRAND NAME	PART NUMBER	RETAIL PRICE (a)
DZF	\$138.20	NISSAN	NS	134.0 mm	0.0 TO 1.0	NS	8.000 mm	28.000 mm	53.500 mm	FRAM	Q2821	\$ 64.84

(a) Manufacturer suggested retail price. Actual price may vary.
 NS - Not Specified

TABLE 4- 9 OXYGEN SENSORS WITH SIMILAR CONSTRUCTIONAL AND DIMENSIONAL CHARACTERISTICS

CONSTRUCTIONAL CHARACTERISTICS		DIMENSIONAL CHARACTERISTICS	
SENSOR MATERIAL	- TITANIA	THREAD SIZE	- 12mm X 1.25mm
SENSOR TYPE	- HEATED	THREAD LENGTH + INSERTION DEPTH	- 24 mm \leq TL+ID < 26 mm
SWITCH POINT	- 14.70		
NUMBER OF WIRE(S)	- 3		

OEM SENSOR PART NUMBER	RETAIL PRICE (a)	MANUFACTURER OF OEM SENSOR	RECOMMENDED CHANGE OUT INTERVAL	LENGTH OF WIRE(S)	VOLTAGE LIMITS	SPLASH PROTECTION	THREAD LENGTH	THREAD LENGTH + INSERTION DEPTH	SENSOR LENGTH ABOVE THREADS	AFTERMARKET SENSOR DATA		
										BRAND NAME	PART NUMBER	RETAIL PRICE (a)
D1F	\$141.90	NISSAN	NS	1700.0 mm	0.0 TO 1.0	-NS	8.000 mm	24.500 mm	60.500 mm	NO KNOWN AFTERMARKET APPLICATIONS		

(a) Manufacturer suggested retail price. Actual price may vary.
 NS - Not Specified

Table 5a Sales of Vehicles with Replacement Oxygen Sensor Retail Prices Exceeding Certain Repair Cost Limits

MODEL YEAR	TOTAL SALES (a)	COST LIMITS				
		\$50 00	\$75 00	\$100 00	\$150 00	\$200 00
81 - 86 (b)	42,239 3	9,672 5	8,947 4	2,908 4	1,738 2	898 0
86 (b)	7,048 6	2,372 0	2,236 6	889 2	358 8	38 8
85	9,196 5	2,761 7	2,607 0	1,123.9	790 9	501 7
84	9,764 9	1,868 2	1,734 7	787 6	582 1	357 4
83	5,870 2	1,002 8	918 8	107 6	6 3	0
82	4,894 3	759 3	648 2	0	0	0
81	5,414 9	889 0	782 7	0	0	0

- (a) Total sales, in 1000's, of oxygen sensor equipped vehicles built by the ten largest automobile manufacturers
 (b) 1986 sales data were not available for Ford and Honda and therefore were not included

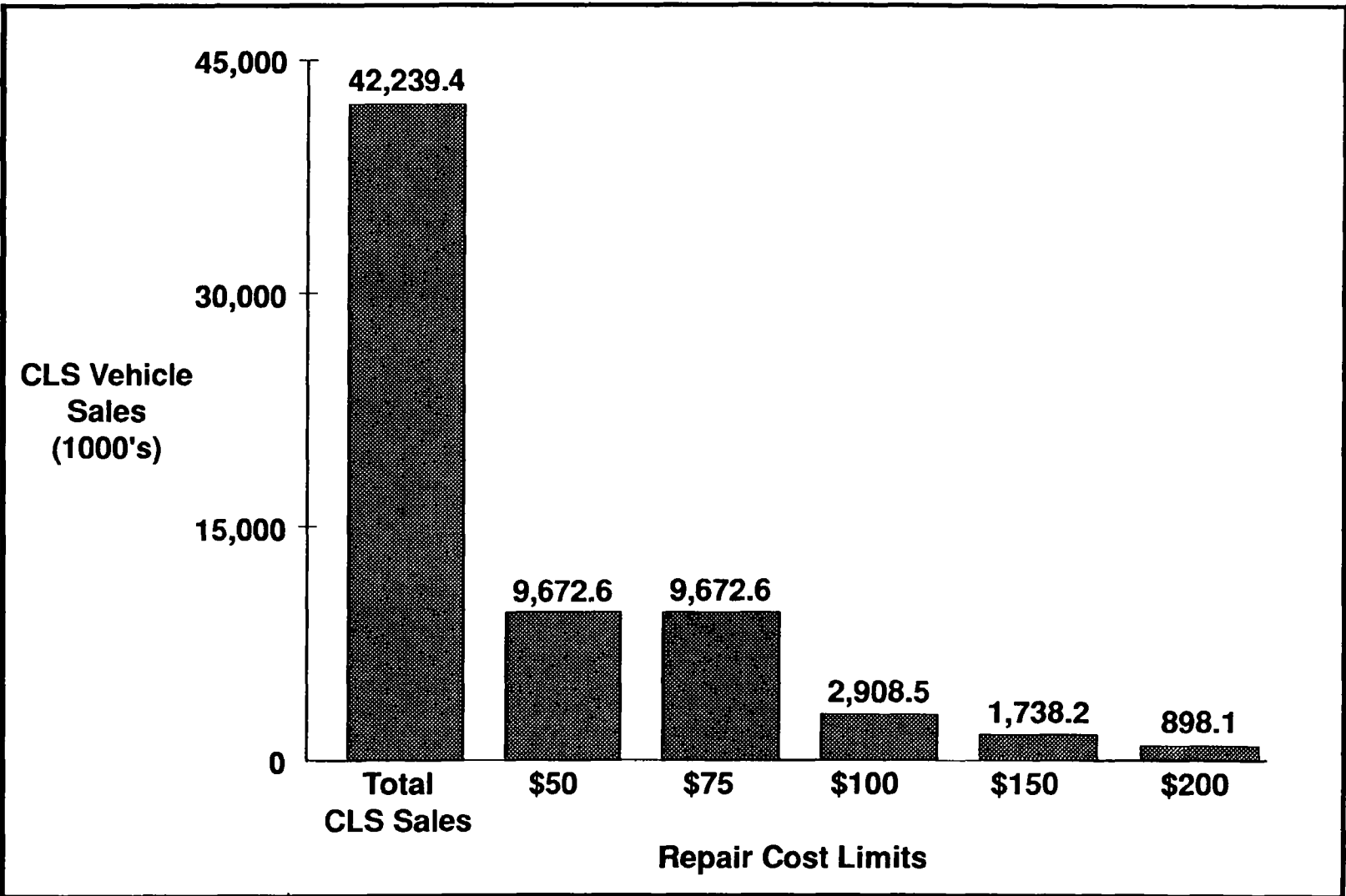


Figure 5a. Sales of 1981-86 Vehicles with Closed Loop Systems (CLS) and with Oxygen Sensor Retail Prices That Would Exceed Certain Repair Cost Limits. (Labor Cost and '86 Ford & Honda Data Excluded.)

Table 5b Percentage of Vehicles with Replacement Oxygen Sensor
Retail Prices Exceeding Certain Repair Cost Limits

MODEL YEAR	TOTAL SALES (a)	COST LIMITS				
		\$50 00	\$75 00	\$100 00	\$150 00	\$200 00
81 - 86 (b)	42,239 3	22 9	21 1	6 8	4 1	2 1
86 (b)	7,048 6	33 6	31 7	12 6	5 0	5
85	9,196 5	30 0	28 3	12.2	8 6	5 4
84	9,764 9	19 1	17 7	8 0	5 9	3 6
83	5,870 2	17 0	15 6	1 8	1	0
82	4,894 3	15 5	13 2	0	0	0
81	5,414 9	16 4	14 4	0	0	0

(a) Total sales, in 1000's, of oxygen sensor equipped vehicles built
by the ten largest automobile manufacturers

(b) 1986 sales data were not available for Ford and Honda and therefore were not included

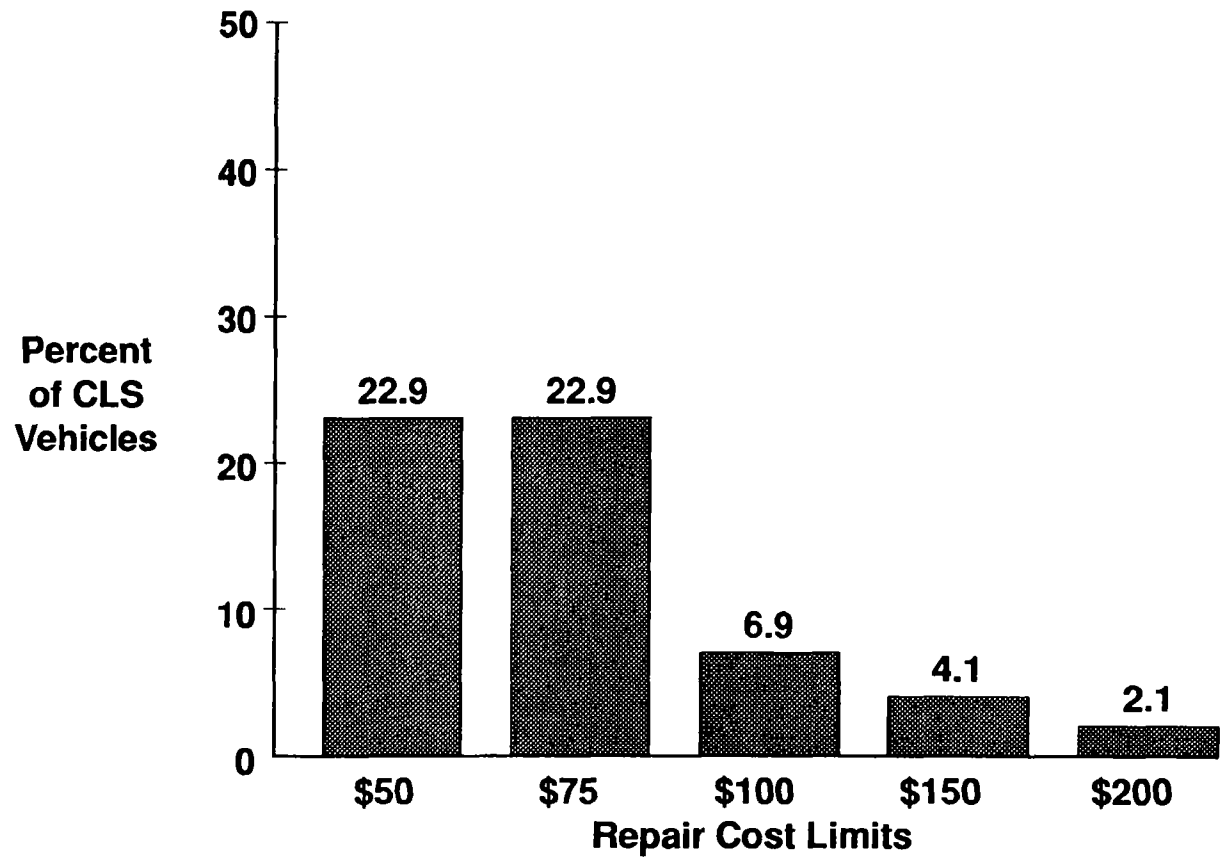


Figure 5b. Percent of 1981-86 Vehicles with Closed Loop Systems (CLS) and with Oxygen Sensor Retail Prices That Would Exceed Certain Repair Cost Limits. (Labor Cost and '86 Ford & Honda Data Excluded.)