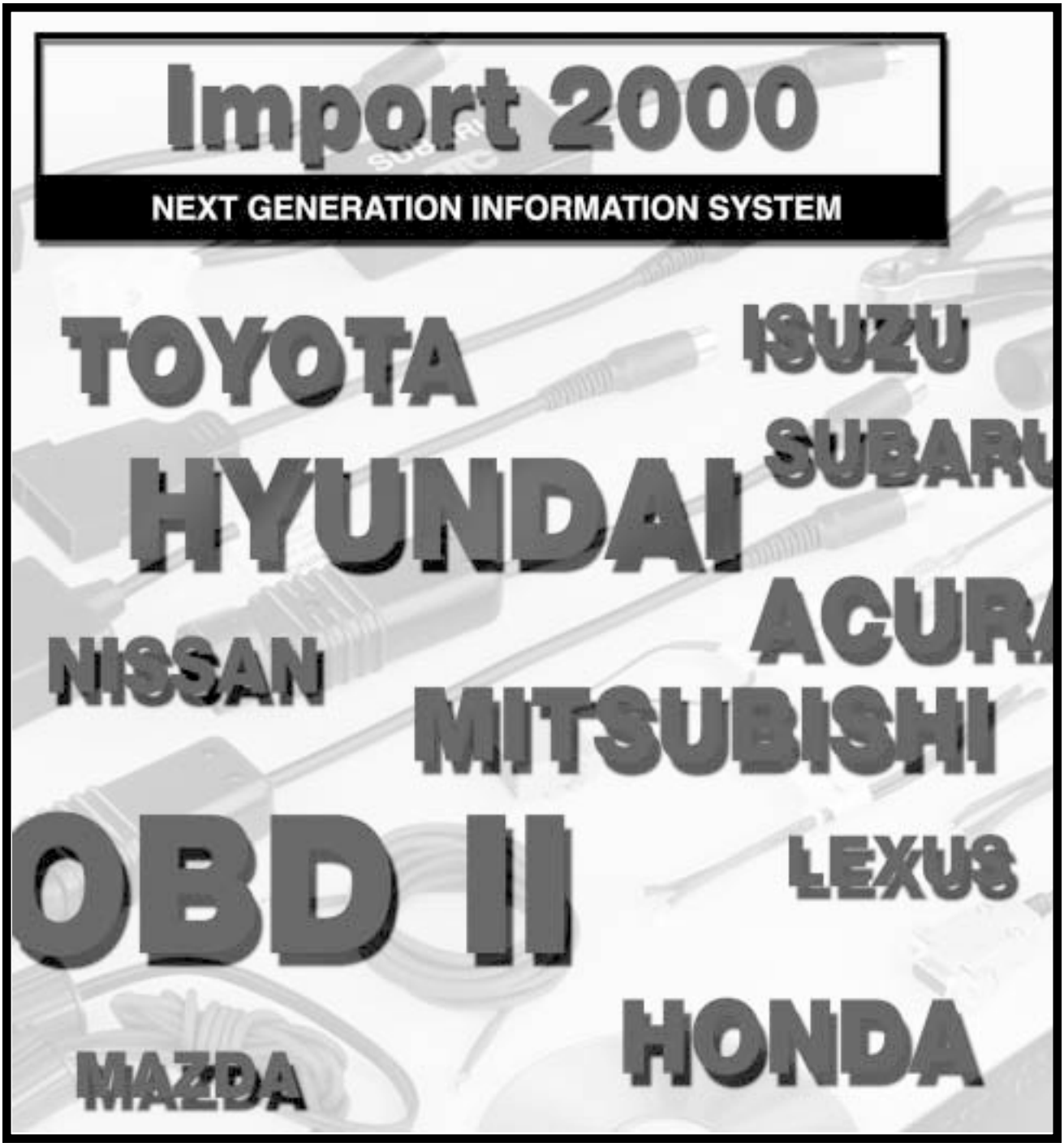
IMPORT 2000
USER GUIDE



IMPORTANT NOTICE

SAFETY

All Danger, Warning and Important notes must be followed for your safety. These safety messages will be in the following formats:

- **Danger** means you may risk possible loss of life
- **Warning** means you may risk bodily harm
- **Important** means you risk damage to the vehicle or the tool
- **Notes** are added to provide clarity and helpful tips.

These safety messages cover situations SPX is aware of. SPX cannot know, evaluate and advise you as to all of the possible hazards. You must be certain that any conditions or service procedures encountered do not jeopardize your personal safety.

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Import 2000

User's Guide

Import application program
for 1996 to 2000
OBD II Engine/Transmission
Power Control Module
coverage up to year 2000

Table of Contents

Getting Started

Reference

Safety Precautions

Danger:

When an engine is operating, keep the service area WELL VENTILATED or attach a building exhaust removal system to the engine exhaust system. Engines produce carbon monoxide, an odorless, poisonous gas that causes slower reaction time and can lead to serious injury or death**.**

Warning:

- Liquids under pressure may escape and create a dangerous condition if you are working with hydraulic or fuel lines. Make sure there is adequate ventilation and there is no possibility of sparks present that may ignite any vapor.

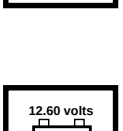
- Set the parking brake and block the wheels before testing or repairing a vehicle. It is especially important to block the wheels on front-wheel drive vehicles because the parking brake does not hold the drive wheels.

- Do not drive the vehicle and operate a test unit at the same time. Any distractions may cause an accident. Have one person operate the test unit as another person drives the vehicle.

- Be sure there is adequate clearance between moving components, belts and any cables used during testing. Moving components and belts can catch loose clothing, a test cable, or a hand or leg and cause serious damage or personal injury.

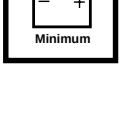
- Wear an ANSI approved eye shield when testing or repairing vehicles. Objects falling into whirling engine components or pressurized liquids escaping may cause injury.

- Automotive batteries contain sulfuric acid and produce explosive gases that can result in serious injury. To prevent ignition of gases, keep lighted cigarettes, sparks, flames, and other ignition sources away from the battery at all times. If you are using the battery as a power source, connect the RED (+) battery clip to the positive vehicle battery terminal and connect the BLACK (-) battery clip to a good ground away from the battery.



- Do not spray any liquids on the tester keyboard. Liquids may enter the tester and cause permanent damage to the electrical components. Flammable liquids may cause an explosion.

Important:



- To avoid damaging the tester or generating false data, make sure the vehicle battery is fully charged and the connections to the vehicle's computer are clean and tight.

- Vehicle Cable Adapters specified in the software program must be used or inaccurate test results will occur.

Specifications

Operating Temperature Range:
0-50° C
Storage Temperature Range:
-40-85° C

Import 2000

The Getting Started Section introduces you to the basic operation of Import 2000. The Reference Section shows how to use the features of Import 2000.

Getting Started

Import 2000 Diagnostics Overview

The Import 2000 Diagnostics program processes vehicle control system data into an easily readable format. The program will read, graph and record sensor and switch input or output (data stream). The program also reads diagnostic trouble codes and performs special tests.

More about Vehicle Diagnostics

Import 2000 tests On-Board Diagnostics Two (OBD II) applications for most Asian imports equipped with the OBD II emissions standard system. The Import 2000 program initiates the diagnostic process by creating a custom menu that lists tests and procedures available for the vehicle description entered into the program. From the custom diagnostic menu, a number of powerful test options can be selected:

- Select DATASTREAM to view sensor and switch data stream information communicated from the vehicle computer. The sensors can be arranged on-screen for side-by-side comparison, viewed in a real-time graph, and also recorded and printed for examination or as a document.
- Press the RECORD Function key to quickly capture data stream data that occurs before and after the Record key is pressed.
- TRIGGERED RECORDING is always active; when a diagnostic trouble code is set, data stream data that occurred before and after the trouble code is automatically recorded to a file. The file is placed in the playback folder for viewing at any time.
- FREEZE FRAME is always available when viewing data stream. Press the left side of the Direction key to instantly "Freeze" the data, then review it frame by frame.
- Select DIAGNOSTIC CODES to view diagnostic trouble codes set by the vehicle computer. Import 2000 can view pending codes to see if a trouble code is about to be set.
- Select SPECIAL TESTS to initiate many specific tests for vehicle sensors.

Import 2000 Quick Start-up

The start-up procedure will begin immediately from the moment the tool is powered on. After a brief system self-check of the tool, a program from the Application Manager menu may be selected to begin testing.

To Start Import 2000

To start the Import 2000 program, follow these steps:

1. Press the tool power button to power ON. The tool will automatically initialize the operating system.
2. From the opening Application Manager Menu, select **Import 2000.**

Figure: Application Manager Menu

3. Begin the Import 2000 diagnostic program by entering the vehicle description in the program information screens, see Figures: Vehicle Description, 1 – 3 as typical screen examples. Place the cursor on the correct response and press ENTER. The number of screens required to describe a vehicle will vary.

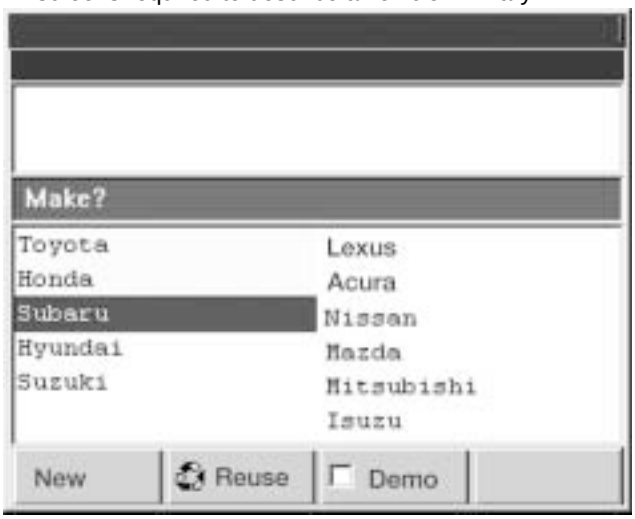


Figure: Vehicle Description-1

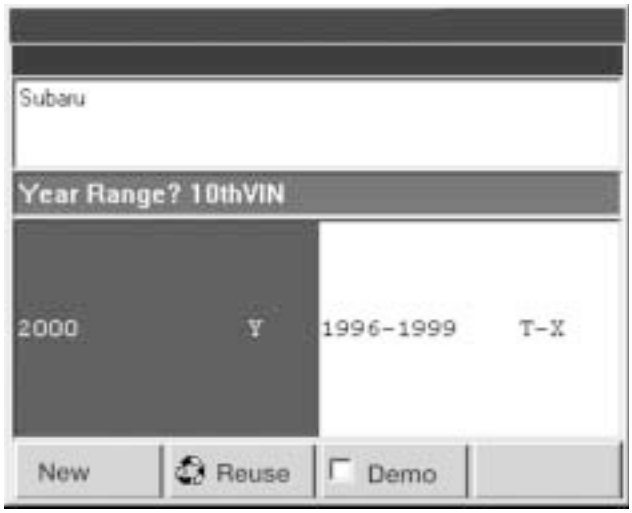
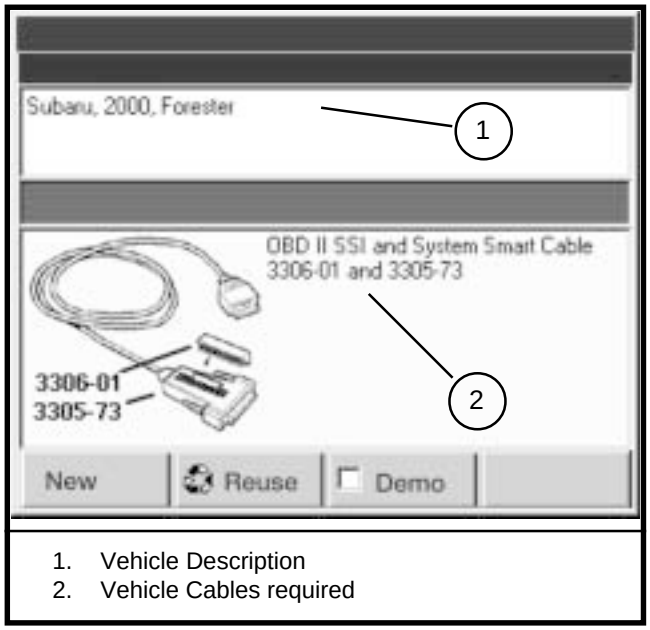


Figure: Vehicle Description-2

Figure: Vehicle Description-3

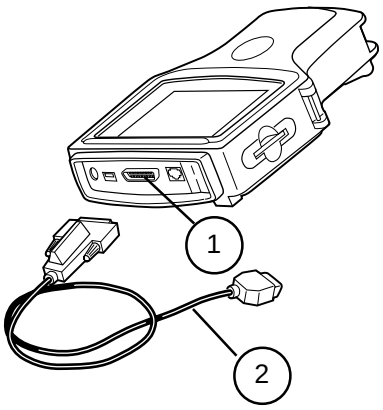
Note: The vehicle description may require that you identify the vehicle computer system you want to diagnose; for example, Engine, Transmission, ABS or Airbag. If the system selected has Diagnostic Trouble Codes that can be accessed only by manually shorting the connection at the Data Link Connector, the diagnostic program will immediately show a description for the Data Link Connector location and the procedure to manually trigger the codes. For more information, refer to the topic *Read Codes* located in the Reference section of this manual.

4. When the vehicle description is completed, the correct cable to connect the tool to the vehicle Data Link Connector will be identified. Attach the 25-pin connector end to the tool (see Figure: Vehicle/Cable and Figure: Connect Data Link Connector cable).



1. Vehicle Description
2. Vehicle Cables required

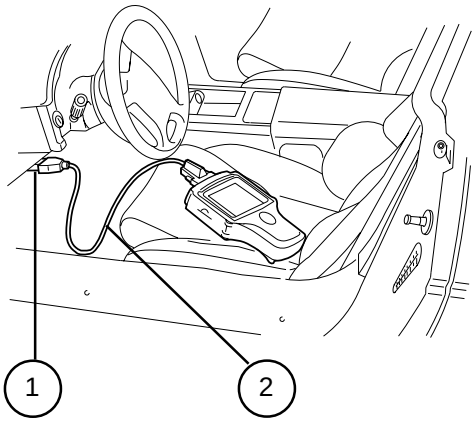
Figure: Vehicle/Cable



1. DB-25 External Port
2. Vehicle Adapter Cable

Figure: Connect the Data Link Connector Cable

5. Attach the Data Link end connector to the vehicle Data Link Connector (see Figure: Connect the Data Link Connector Cable to Vehicle).



1. Data Link Connector
2. Vehicle Adapter Cable

Figure: Connect the Data Link Connector Cable to Vehicle

6. From the Diagnostic menu, select the tests to perform on the vehicle:
   - select DATASTREAM to view sensor and switch data stream information,
   - select DIAGNOSTIC CODES to view diagnostic trouble codes set by the vehicle computer,
   - select SPECIAL TESTS to initiate specific tests for vehicle sensors,
   - select VEHICLE INFORMATION to view information provided by the vehicle computer about the vehicle.

Note: Some vehicles are not equipped with all of the capabilities Import 2000 is able to test or activate, all menu choices illustrated will not be applicable for all vehicles. Only those menu choices applicable to the vehicle will be displayed. See Figure: Diagnostic Menu.

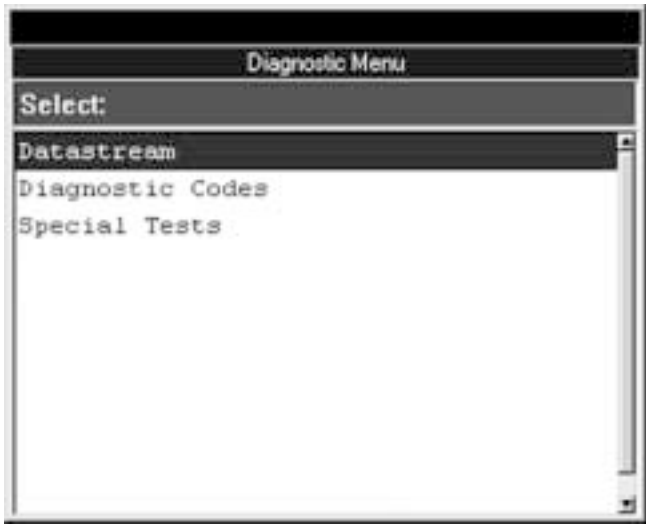


Figure: Diagnostic Menu

Reference

The Reference Section shows how to use the features of Import 2000.

Vehicle Description

Vehicle description is required for the Import 2000 program to create a custom menu that lists the tests and procedures available. The required description process to enter a new vehicle often requires several steps. Import 2000 speeds this process by storing up to 25 vehicle descriptions in files that you can re-use to re-enter a vehicle description. Simply select the saved description file and press Enter. Refer to Figure: Vehicle Description Overview to view a "snapshot" of typical vehicle identification screens.

Note: Vehicle Description is demonstrated in the *Getting Started* section of this manual under topic, *Import 2000 Quick Startup*.

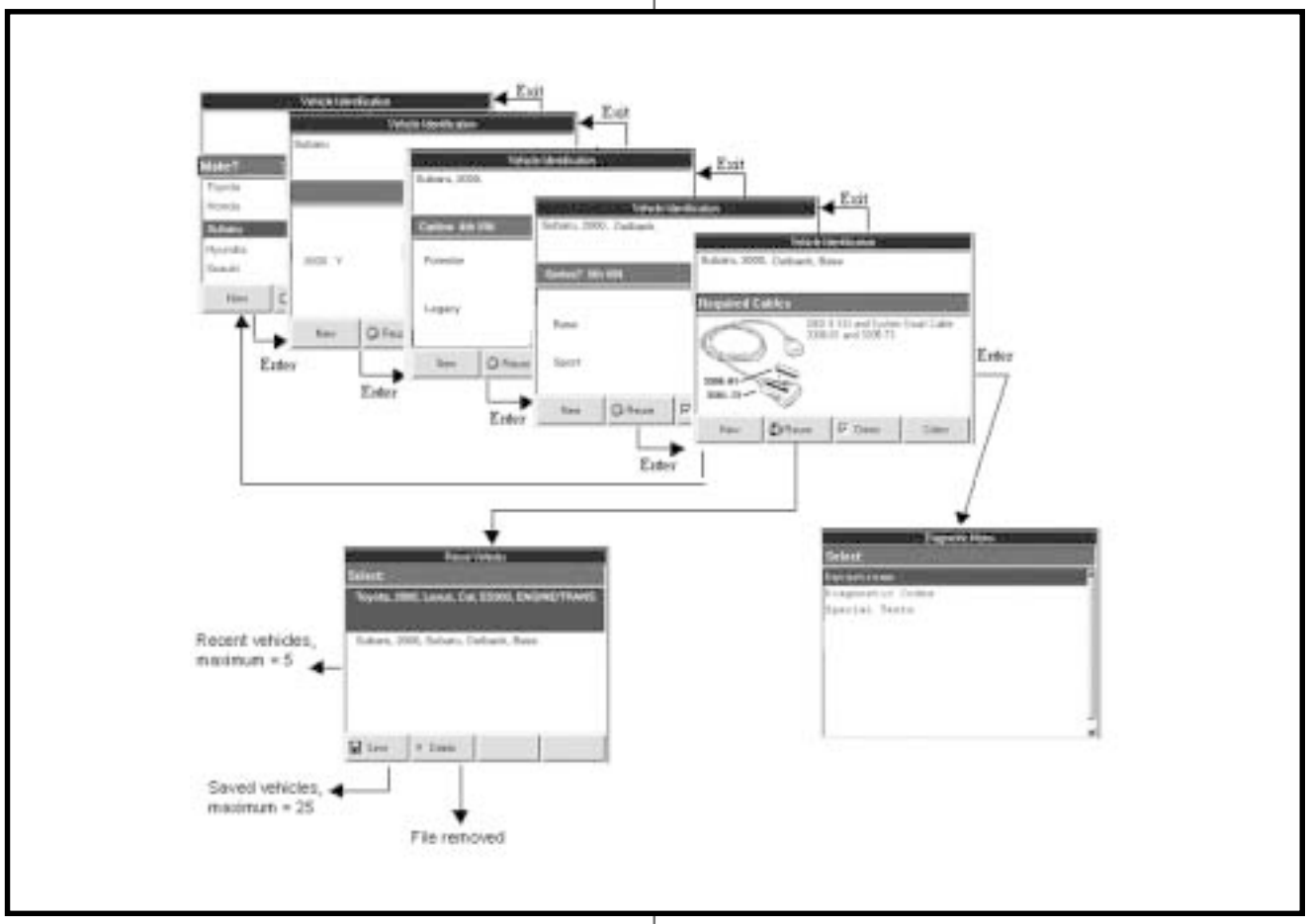


Figure: Vehicle Description Overview

New Vehicle Description

New Vehicle description lists the classification required to identify a vehicle for testing. As a vehicle is identified, the classification path selected is displayed at the top of the screen. When all vehicle classifications are determined, the cables required to connect the test unit to the vehicle are displayed at the bottom of the screen.

Vehicle Description Steps

To identify a new vehicle, follow these steps:

1. Select a Vehicle Make, press ENTER.
2. Select from each of the vehicle classification screens that follow until the vehicle is fully identified.
3. View the vehicle adapter cables required for connecting the test unit to the vehicle.

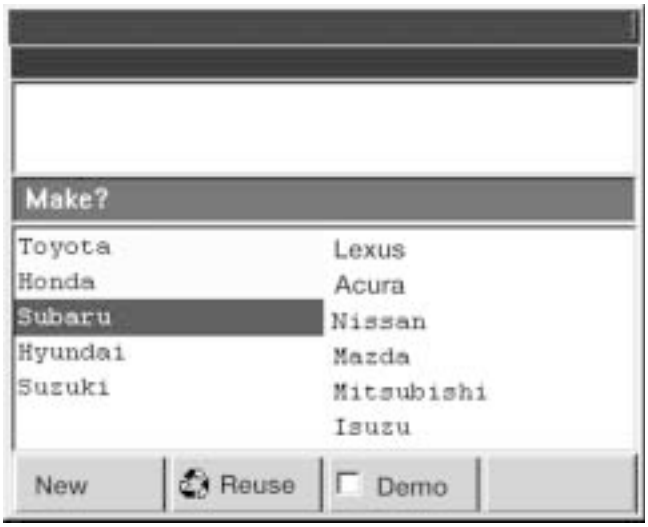


Figure: Vehicle Description

Saved Vehicle Description

New vehicle information entered into the program may be saved or reselected for vehicle testing. As many as 25 vehicle classification descriptions may be saved to memory for later use. Vehicle descriptions may be processed in one of three methods:

- Save the vehicle description,
- Reuse the vehicle description,
- Delete the vehicle description.

Save Vehicle Description

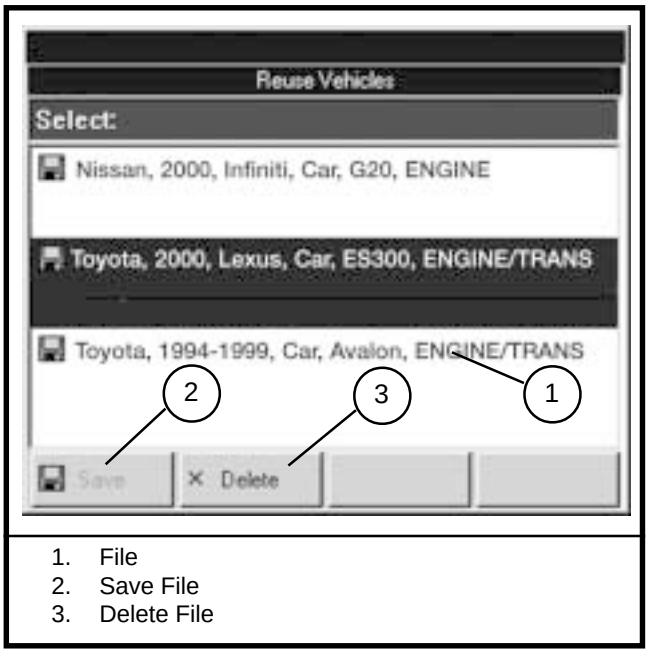
To save vehicle identification to a file, follow these steps:

1. Enter the vehicle description, then press the REUSE Function key to copy the vehicle description (see Figure: Vehicle Description)
2. Press the SAVE Function key to save the vehicle description to memory (see Figure: Reuse List).

Reuse a Vehicle Description

To use a saved vehicle identification file, follow these steps:

1. Press the REUSE Function key (see Figure: Vehicle Description)
2. Select the vehicle to reuse from the list, press ENTER (see Figure: Reuse List).



1. File
2. Save File
3. Delete File

Figure: Reuse List

Delete a Vehicle Description

To delete a vehicle description, follow these steps:

1. Select the vehicle file to delete.
2. Press the DELETE Function key, see Figure: Reuse List.

Data Stream

Data Stream is the electrical signal sent between the vehicle computer and the vehicle sensors or switches. The data is converted and displayed in a readable format for the repair technician. See Figure: Data Stream Overview.

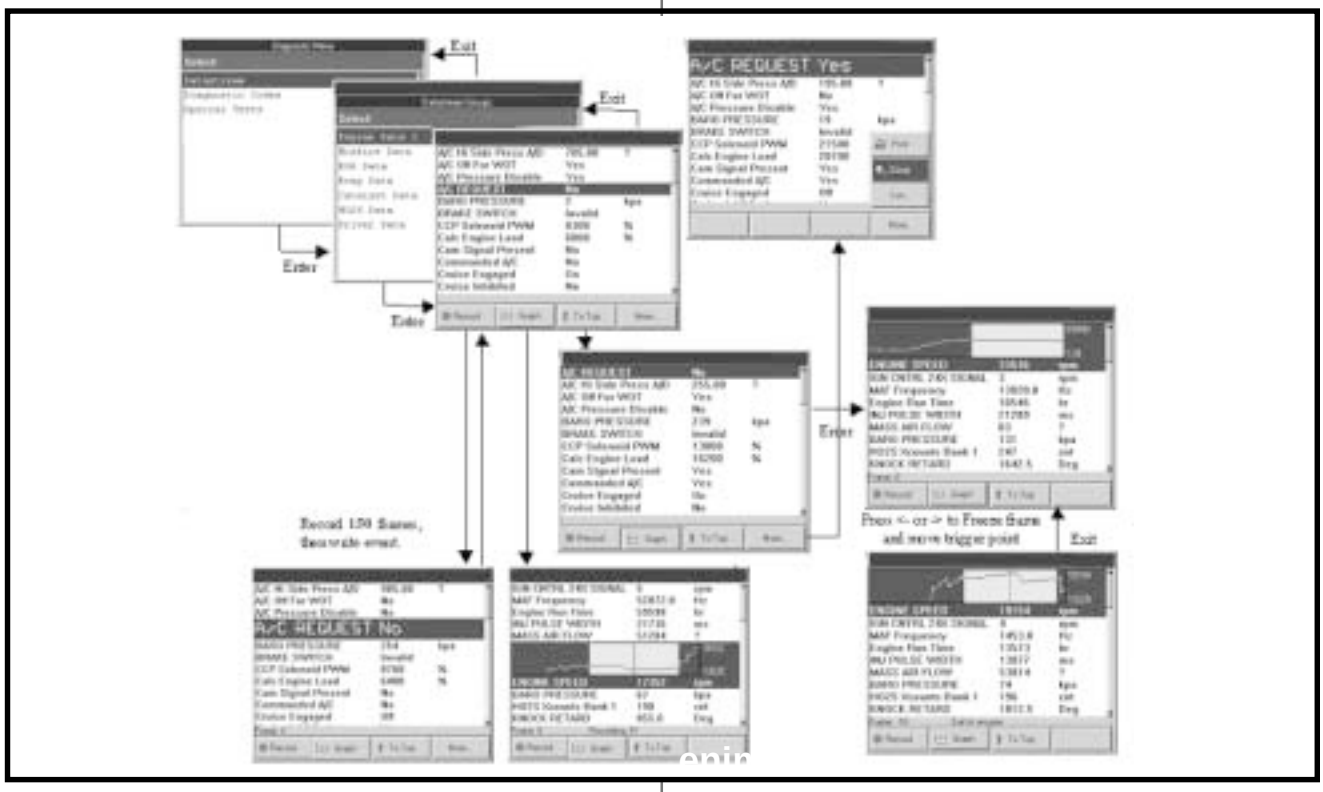


Figure: Data Stream Overview

More About Data Stream

The data stream function activates a pre-selected group of essential sensors and places them at the top of the display for immediate reference. The remaining sensors and switches detected on the vehicle are de-activated and listed in alphabetical order. Any of the sensors or switches listed may be deactivated or activated and arranged for on-screen viewing.

Path Reference

All Vehicles → Diagnostic Menu → Data Stream

Power Control Module Conflict

A Conflicting Data screen will be displayed if two or more Power Control Modules (PCM) report different data for the same sensor. The Conflicting Data screen will display the PCM number and the data marked with an asterisk. The data may be different because of a difference in timing when the sensor signal was received. If the values are close, there is no need for concern. If the difference in the values is large, suspect a broken wire or a PCM fault.

Data Stream Viewing Options

When viewing data stream, a number of helpful options are available that permit data review or amplification:

- **Enable or Disable** sensor data
- **Record data**
- **"Zoom"** to increase the viewable data window
- **Graph** to visually enhance data
- **Display Configuration** to enable sensor comparison
- **Printing** to capture data to paper

Data Stream Sensor Enable/ Disable Function

The speed at which vehicle sensor data stream signals can be updated is dependent on two factors: vehicle protocol speed and the number of sensors on a vehicle. An Enable/ Disable feature has been added that automatically enables an optimum number of high-use data items for initial viewing for each Original Equipment Manufacturer (OEM). The pre-selected data items are updated at a rate of speed relative to the maximum rate of speed for the vehicle protocol.

Tip: Some vehicles may achieve a faster rate of updating if fewer data items are enabled.

How to Enable/Disable Data Items

To enable/disable data items, follow these steps:

1. Select a data item, then press F2 to actuate **Graph**, **Enable** or **Disable.** Disabled data items are preceeded with an asterisk (✳).

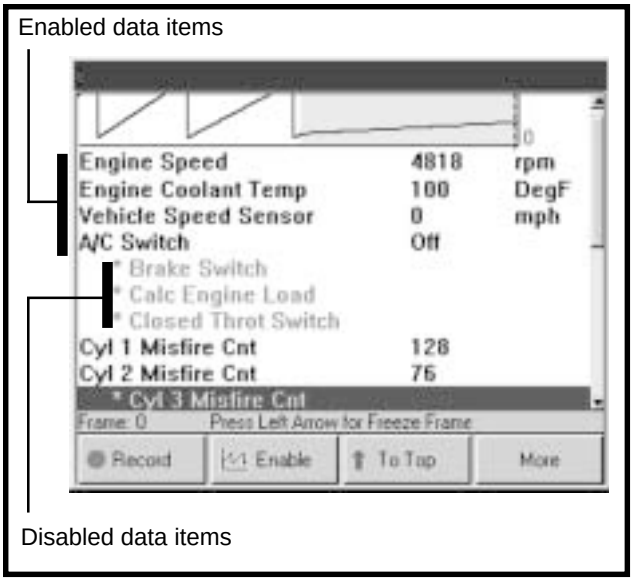


Figure: Enable/Disable Data Items

Record

The Record function continuously creates a record of the sensor or switch data. This data can be viewed "real" time in a graph or up to 150 frames of data can be recorded and stored in a file for detailed examination at a later time.

More about Record

Three methods are available to capture data or sensor information:

- **Diagnostic Code Trigged Recording** – When a diagnostic trouble code is set, data stream data that occurred before and after the trouble code is automatically recorded to a file. The file is automatically placed in the playback folder for viewing at any time.
- **Record** – Press the RECORD key to capture up to 150 frames of sensor data that occurred before and after the trigger was pressed.
- **Freeze Frame** – Freeze Frame is always available when viewing data stream. Press the left cursor to instantly "Freeze" the data, then review it frame by frame.

Diagnostic Code Triggered Recording

The Diagnostic Code Triggered record function is always active. Whenever a diagnostic code is set in the vehicle computer, the record function will automatically capture data that occurred at the moment the code was set, plus it will record data that occurred before and after the trouble code was set. The recorded data is automatically saved to a file and stored in the playback folder. A trouble code data file can be accessed from the playback file and reviewed at any time.

To View a Triggered Recording

1. Press the MENU or EXIT key to return to the Application Manager Menu.
2. Select **Playback,** and then press ENTER.
3. Select the file and press the left or right side of the Direction key to view each frame in sequence.

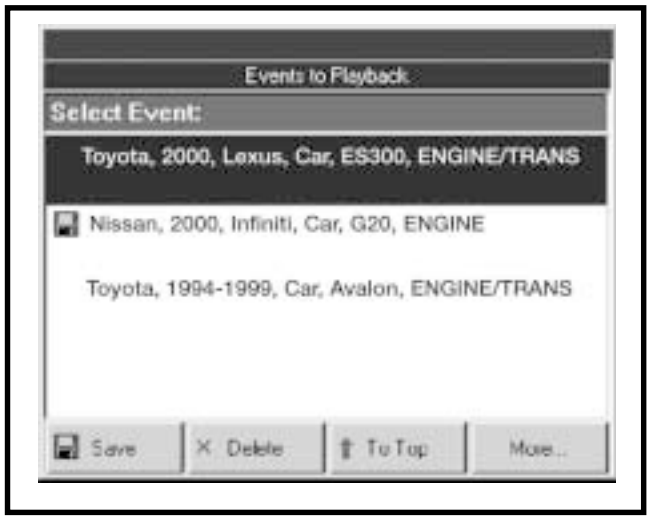


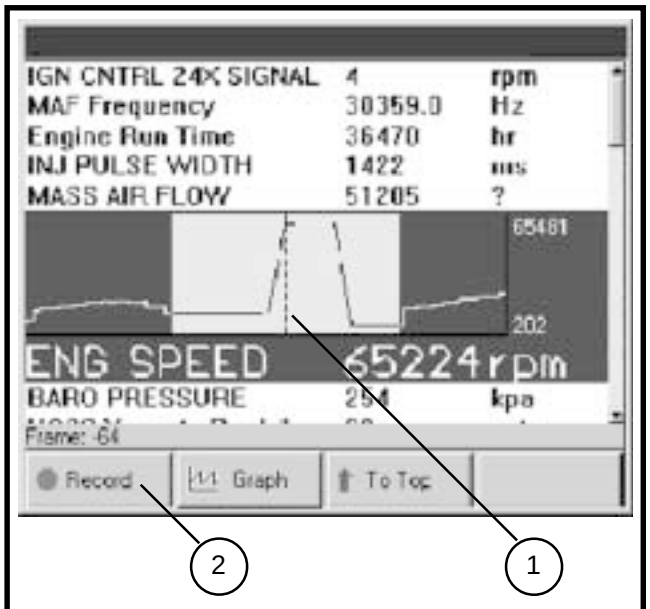
Figure: Events to Playback

Record and Playback

To record and playback data, follow these steps:

1. Press the RECORD Function key to instantly create a file (see Figure: Sensor List). A frame will be marked with the number zero. 74 frames of data before the zero marker (identified with a negative number) and 75 frames of data after the zero marker will be captured and placed in a file in the Playback folder.
2. Optional: Continue viewing live data or press MENU or EXIT to return to the Application Manager Menu to playback the file.
3. If playback is desired: Select Playback, and then press ENTER. Select a file from the list to (see Figure: Events to Playback).
4. Press the left or right side of the Direction key to view each frame in sequence.

   You can also scroll up or down in the recorded file to select different data items to graph, simply highlight the data item and press the Graph function key. Press EXIT to return to the Events Playback Menu when finished viewing the recorded data.



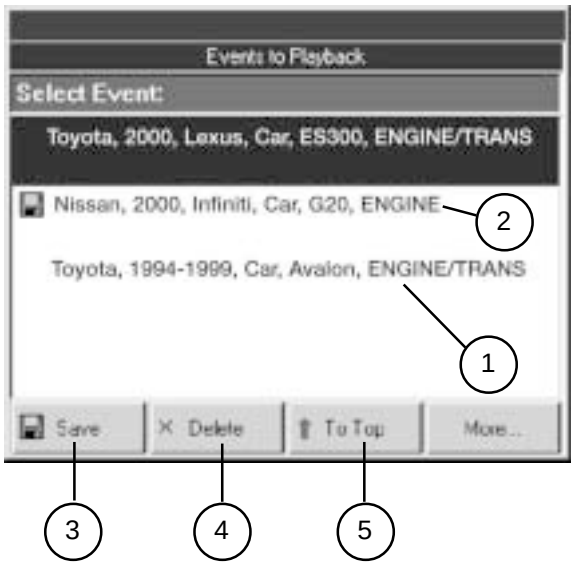
1. Press the left or right side of the Direction key to view each frame in sequence.
2. Record Function Key

Figure: Sensor List

Save a Recorded File

To save a recorded file, follow these steps:

1. Press MENU or EXIT to go to the Application Manager Menu, and then select **Playback.**
2. Select the event file, and then press the SAVE Function key. A disc icon will appear to the left of a saved file (see Figure: Events to Playback).



1. Event not saved
2. Saved Event
3. Save Function
4. Delete Function
5. Move Event to Top of List

Figure: Events to Playback

Delete a Recorded File

To delete a file, select the event file, and then press the DELETE Function key (see Figure: Events to Playback).

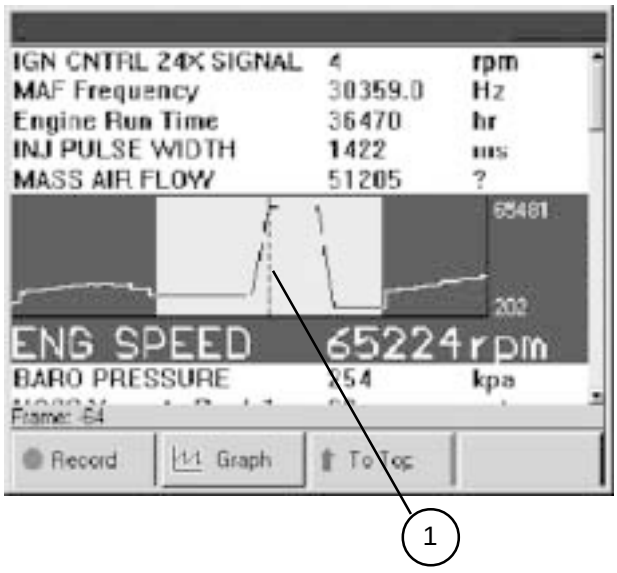
Freeze Frame

The Freeze Frame function instantly "freezes" the data stream as it is viewed. The data can be viewed frame-by-frame as the vertical "cross-hair" is moved to visually indicate the exact frame for a particular point in time. The graphed data will be magnified when the cross-hair moves across each frame.

How to Freeze data

To view "frozen" data, follow these steps:

1. Press the DIRECTION key left to move the dotted line "cross-hair" (see Figure: Freeze Frame).
2. The vertical "cross-hair" will move to visually indicate the exact frame for a particular point in time. The graphed data will be magnified as the cross-hair is moved left or right across the graph.
3. Continue to press the left or right side of the directional key to move back or forward frame-by-frame.
4. Record the data, if desired, by simply pressing the RECORD key.
5. Press EXIT to resume live data graphing.



1. Freeze Frame point-in-time Indicator ("cross-hair")

Figure: Graph Trigger

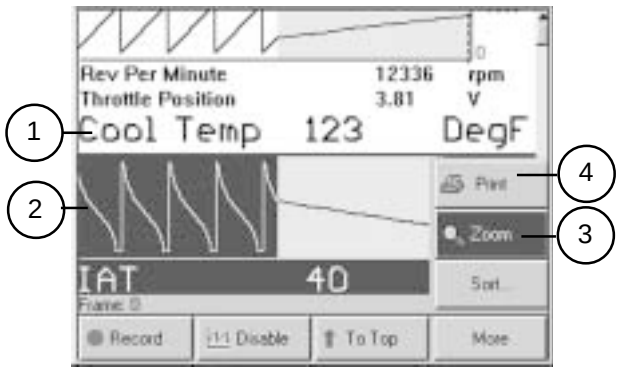
Zoom

The Zoom function magnifies the label and graph displays.

Zoom up or Down

To zoom a sensor view, follow these steps:

1. Select the sensor description or graph, and then press the MORE function key.
2. Select ZOOM , and then press ENTER to increase or decrease the selected sensor view.



1. Sensor magnified (Zoom)
2. Graph magnified (Zoom)
3. Zoom Magnification
4. Print function

Figure: Zoom Function

Print

The Print function key sends the data viewed to the attached printer.

Tip: A print template that places up to six lines of information, such as the name of your shop, telephone number and any other information desired, can be placed at the top of each printed report. See topic: *Print Header* in the Application Manager SYSTEM SETUP.

Printer Activation

To print data, point the tool infrared port at the printer infrared port and press the PRINT function key (see Figure: Zoom Function).

Graph

The Graph function visually displays the sensor data in a continuously updated graph.

More About Graphs

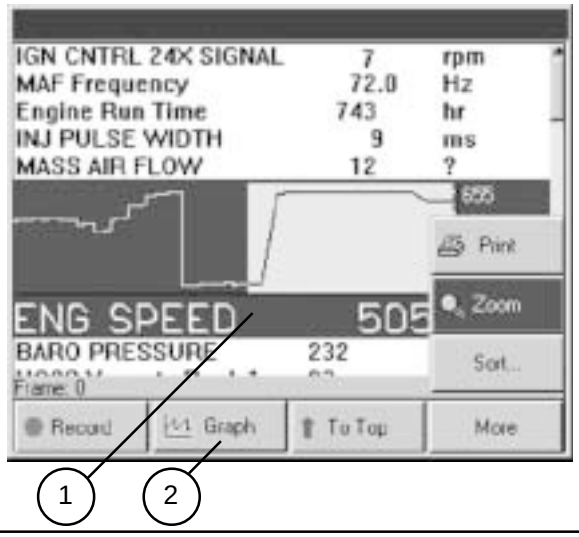
The graphic display divides the sensor data into two windows: past activity window and a magnified live activity window. Within the magnified window a dotted line "cross-hair" can be moved over the data to freeze and magnify any part of the captured data. As data is graphed, the minimum and maximum measurements are displayed along with the actual measurement.

Graph Activation

To graph data, follow these steps:

1. Select the sensor to graph, and then press the GRAPH function key (see Figure: Graph).
2. Press the GRAPH function key again to toggle the graph function off.

Note: The Graph function key also disables or enables the sensor activity display. Pressing the Graph function key will toggle the data display between Graph On/ sensor disable/ sensor enable/ graph off.



1. Sensor shown as graph
2. Graph function key

Figure: Graph

Sensor Display Configuration

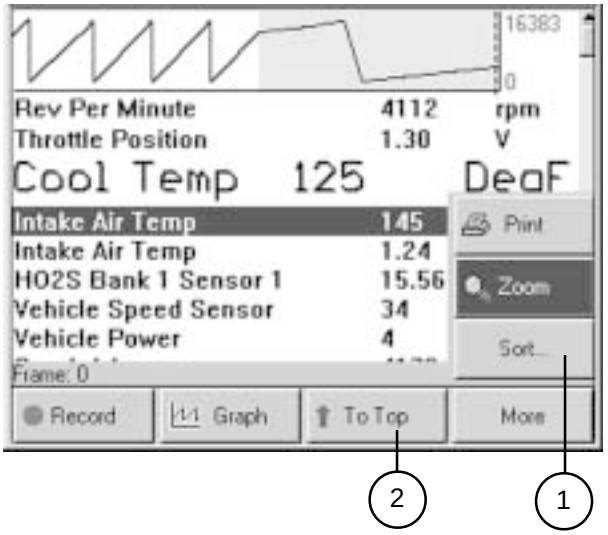
The display sequence of the vehicle sensors is easily re-arranged to allow the configuration of a grouping of sensors at the top of the screen for convenient side-by-side viewing.

How to Position Sensors

To reposition a sensor, select the sensor, and then press the TO TOP function key. Each sensor selected is positioned to the top of all remaining sensors.

How to Sort Sensor List

The sensor list can be ordered alphabetically, by the most active or by all graphed sensors. Press the MORE Function key, press SORT, and then press ENTER.



1. Sort sensors
2. Position sensor to the top of the list

Figure: Sort Sensor

2. Select the method to sort the list of sensors, and then press ENTER.

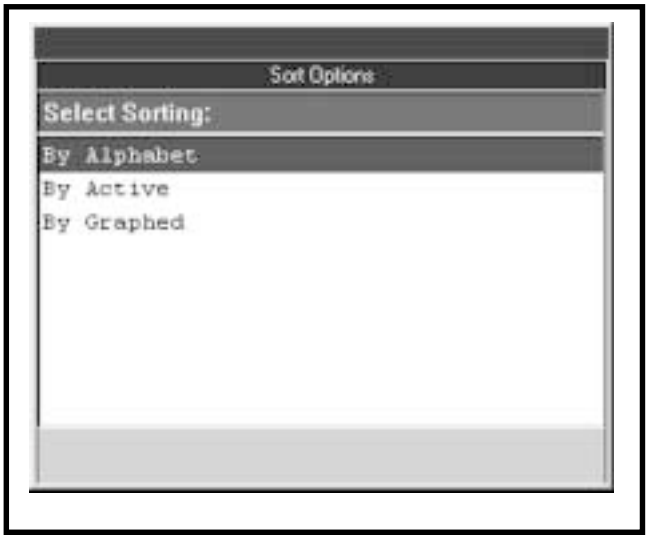


Figure: Sort Menu

Diagnostic Code Information

Diagnostic testing is performed by the vehicle management system. The vehicle computer monitors the system and performs active tests when passive tests fail. When a failure occurs, a trouble code is generated and saved in the vehicle computer as a pending trouble code or as an active trouble code reporting a condition that must be repaired.

To view the Diagnostic Trouble Codes saved in the vehicle computer, select Diagnostic Codes from the Diagnostic Menu. The program offers a choice of Reading Codes, Pending Trouble Codes, Clear Codes or view sensor data captured with Freeze Frame. See Figure: Diagnostic Code Overview.

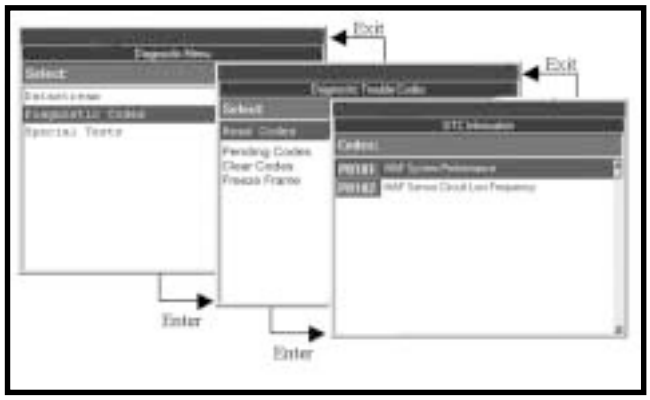


Figure: Diagnostic Code Overview

Path Reference

All Vehicles → Diagnostic Menu → Diagnostic Codes

Read Codes

Read Codes displays vehicle faults that have been recently recorded as a Diagnostic Code in the vehicle computer.

More About Reading Codes

Diagnostic Trouble Codes are accessed in different vehicle computers with two methods:

- To access the Diagnostic Trouble Codes from the vehicle Engine or Transmission computer, simply select Read Codes from the DIAGNOSTIC CODES menu, any Diagnostic Trouble Codes stored in the vehicle computer will be displayed. See Figure: Diagnostic Code Overview.

- To access the Diagnostic Trouble Codes from the vehicle Airbag or ABS computer, manually short the connection at the Data Link Connector. Systems that must be accessed manually are determined immediately when you identify the vehicle computer system (Engine, Transmission, ABS or Airbag) as you enter the vehicle description into the diagnostic program (see Figure: Vehicle Computer). The diagnostic program will identify the Data Link Connector location and the procedure to manually trigger the codes (see Figure: Manual Code). After you have manually identified the code, scroll through the code list to find the code description.

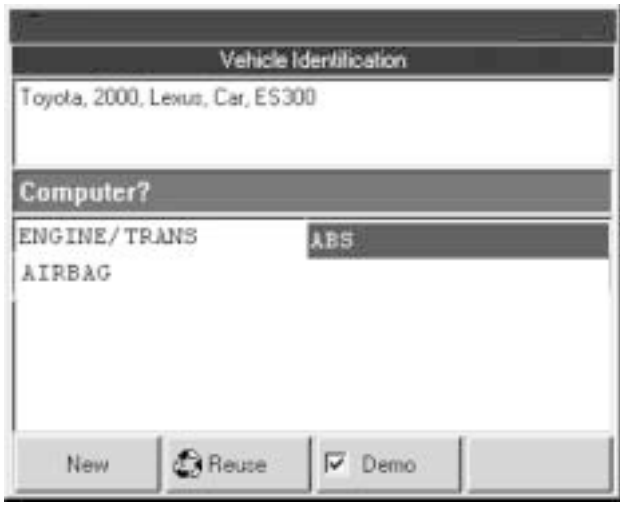


Figure: Vehicle Computer

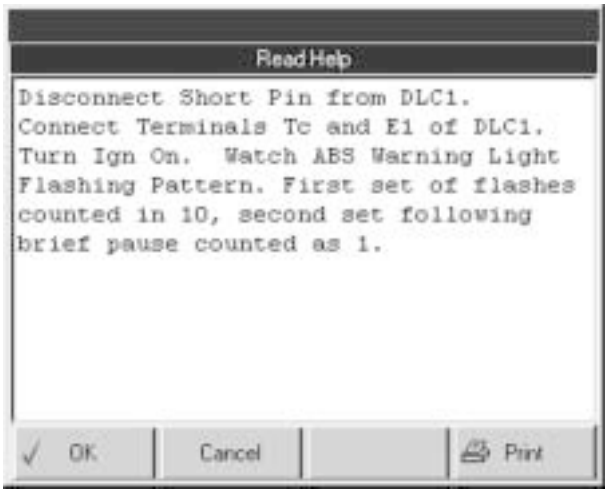


Figure: Manual Code-1

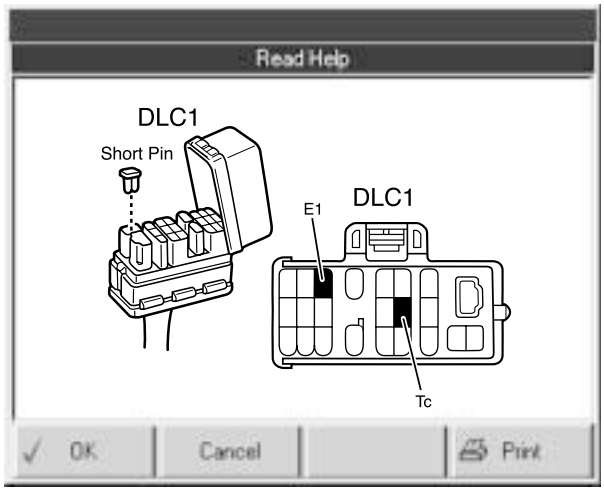


Figure: Manual Code-2

Path Reference

All Vehicles → Enter Vehicle Information → Diagnostic Menu → Diagnostic Codes → Read Codes

All Vehicles → Enter Vehicle Information → ABS or Airbag computer → Read Codes

Pending Trouble Codes

Pending Diagnostic Trouble Codes are trouble codes that have been recently recorded in the vehicle Power Control Module but are not considered as a malfunction until the same code is recorded on two, or more, separate drive cycles. This option can be used to check recent repairs because it will show Diagnostic Trouble Codes reported after a single drive cycle.

Path Reference

All Vehicles → Diagnostic Menu → Diagnostic Codes → Pending Codes.

Clear Codes

Clearing diagnostic codes is a function that erases diagnostic codes from the vehicle computer.

How to Clear Codes

To clear codes, follow the on-screen instructions as the scan tool clears diagnostic codes from the vehicle computer. If any codes remain, select the CLEAR option once more. Make sure the ignition key is on, the engine off when erasing codes.

Tip: Clearing trouble codes will also clear freeze frame information, PCM learned values, and the inspection/ maintenance flags. If you are in an inspection/maintenance 240 area, verify that all readiness status flags are set (see READINESS STATUS menu option) before returning the vehicle to the customer.

Note: If Clear Codes is not shown on the menu as an available option, consult the vehicle service manual for the OEM specified “clear code” method.

Path Reference

All Vehicles → Diagnostic Menu → Diagnostic Codes → Clear Codes.

Freeze Frame

The Freeze Frame option shows a frame of sensor data that is captured at the moment a trouble code is set in the vehicle computer.

To View Freeze Frame

If only one Powertrain Control Module (PCM) is available, the freeze frame data stream information will be displayed. If there are multiple PCMs, select the PCM from which you wish to view the data stream.

Path Reference

All Vehicles → Diagnostic Menu → Diagnostic Codes → Freeze Frame

Special Tests

The Special Tests are a group of specific system tests available for the vehicle being tested.

To view the tests available for the vehicle, select Special Tests from the Diagnostic Menu. The Readiness Test will automatically check if System Monitor tests are complete for OBD II and, if required, OEM special tests (see topic: Readiness Status).

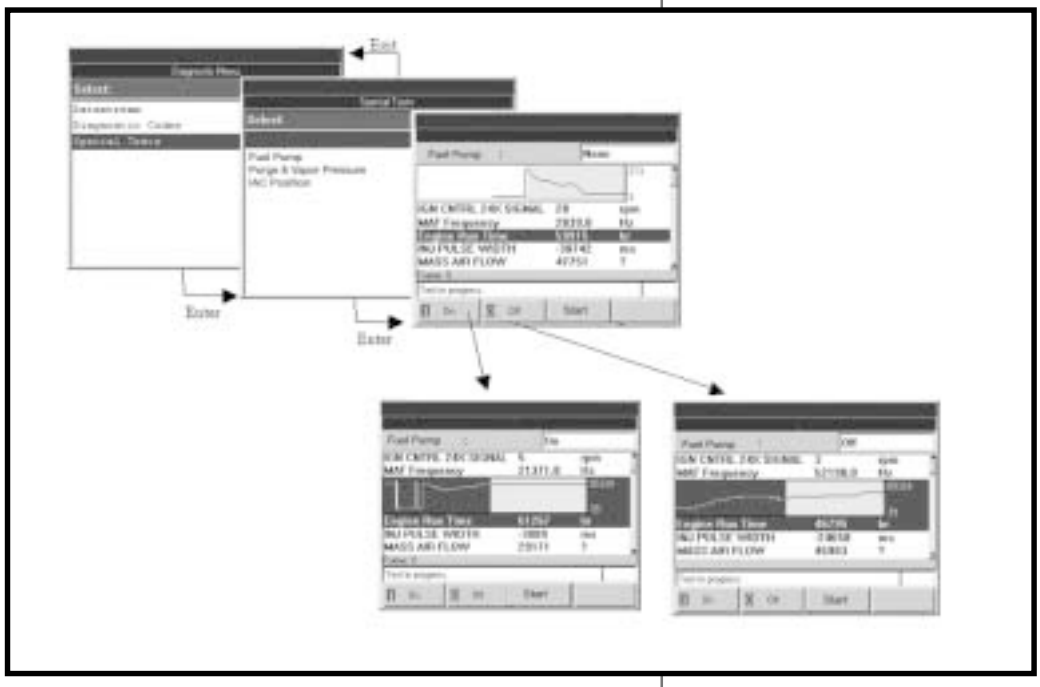


Figure: Special Test Overview

Readiness Status

The Readiness Status determines the number of Power Control Modules active, and then it determines which Vehicle System Monitors have completed their tests.

More About Readiness Status

Two types of Vehicle Systems Monitors are used to test vehicle systems:

- Non-Continuous Vehicle System Monitors are a test routine that is activated once per drive cycle.
- Continuous Vehicle System Monitors are tested continuously during a drive cycle.

The Readiness Status test determines which Power Control modules are used on the vehicle, and then it determines which System Monitor tests are completed (done) or not completed (pending) or failed.

How to Activate the Readiness Status Test

To activate a Readiness test, follow these steps:

1. Start the vehicle engine. Select **Readiness Status** from the SPECIAL TESTS menu.

   If there are multiple Power Control Modules (PCM), select the PCM from which you want to view the data stream (some vehicles may have only one Power Control module), and then press ENTER.

2. Select a Vehicle System Monitor Readiness Status test (see Figure: Readiness Status Test).

   All of the Continuous and Non-Continuous System Monitor tests will be displayed for the Power Control module. The tests will be identified as Done, Pending or Failed. If the test is labeled Done, all drive cycle conditions have been met and sensor tests completed. If a test is pending, refer to your vehicle service manual to determine the drive cycle procedure required for completion of each Non-Continuous Vehicle System Monitor test. If a test has failed, a diagnostic code has been set to identify a condition that must be repaired.

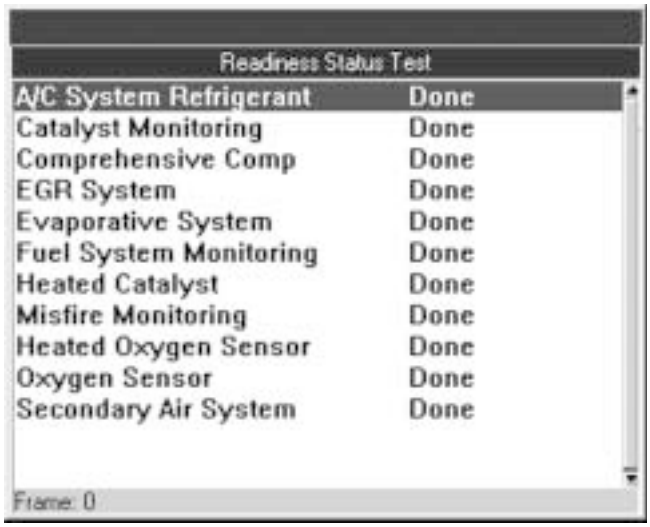


Figure: Readiness Status Test

Path Reference

All Vehicles → Diagnostic Menu → Special tests → Readiness Status

Oxygen Sensor (O2) Test

The Oxygen Sensor (O2) option shows sensor data for each bank (driver's side and passenger side or engine front and engine rear) of O2 sensors on the vehicle.

More About Oxygen Sensor Testing

The Oxygen Sensor test will check for more than one bank of O2 sensors. If there is more than one, the voltage will be displayed for each sensor on each bank (see Figure: O2 Sensor Labels). **Important:** Warm the engine to operating temperature before testing.

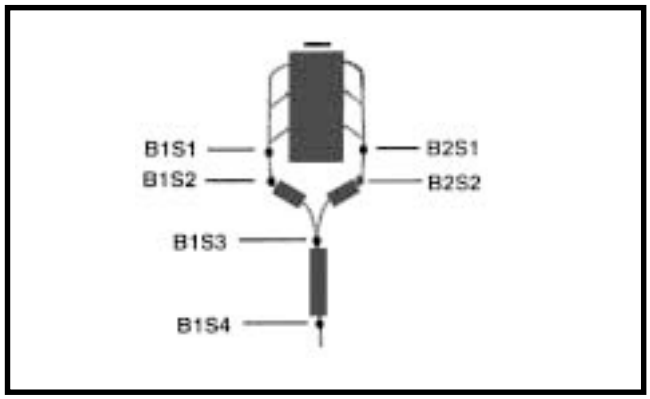


Figure: O2 Sensor Labels

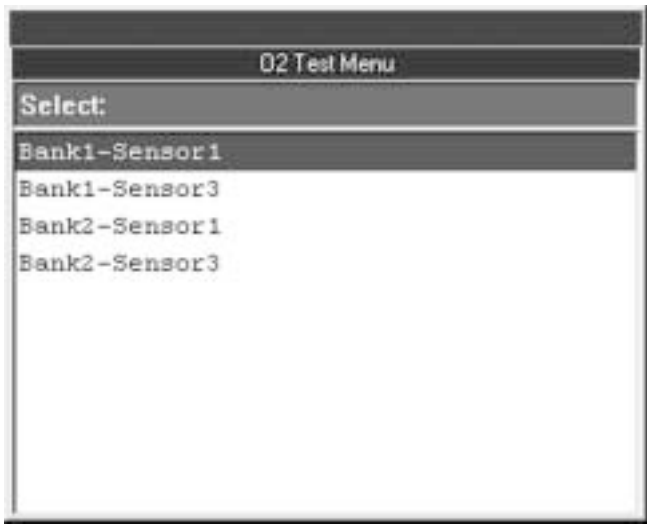


Figure: O2 Sensor Select

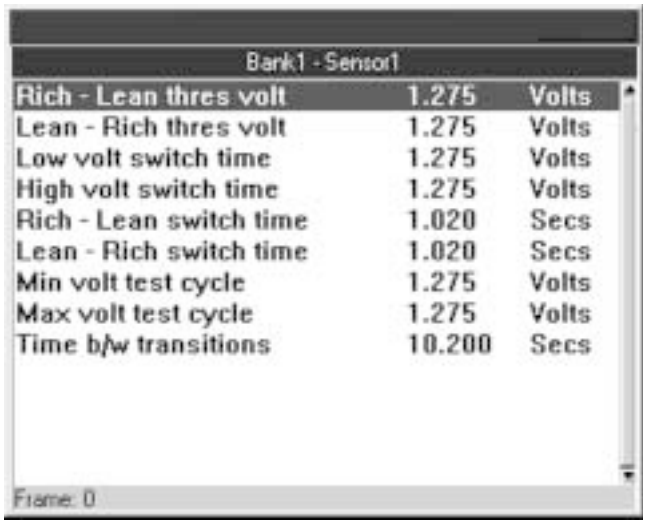


Figure: O2 Sensor Display Data

Path Reference

All Vehicles → Diagnostic Menu → Special tests → O2 Tests

IAC Duty Ratio

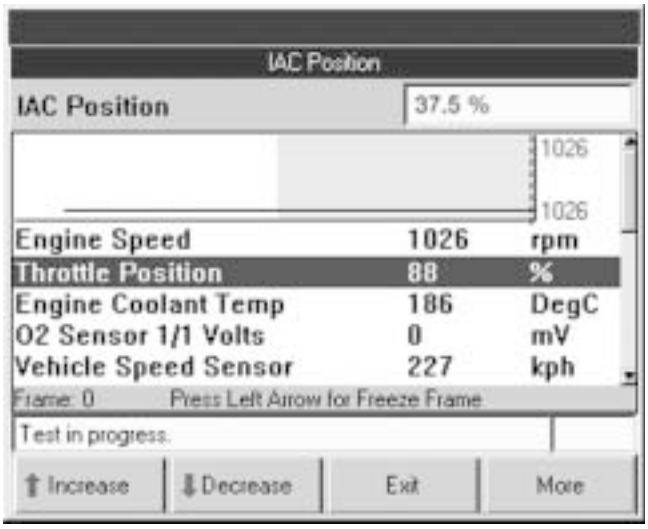
The Idle Air Control (IAC) Duty Ratio option allows control of the position of the IAC motor when an override of the idle air adjustment is required.

Command the Idle Air motor

To command the Idle Air Motor setting, follow these steps:

1. Place the vehicle in park or neutral, engine running.
2. Select the IAC Duty Ratio test from the menu.
3. Adjust the idle air motor position with the Increase or Decrease Function keys during this test.

You may also select a group of sensors to view as you increase or decrease the motor position.



Path Reference

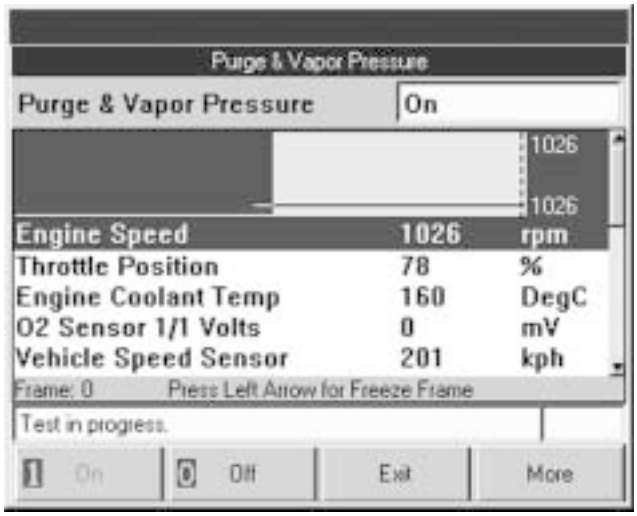
Toyota → Diagnostic Menu → Special tests → IAC Duty Ratio

Purge & Vapor Pressure

The Purge and Vapor Pressure option switches the Evaporative Vapor and the Canister Purge System solenoid valve on or off.

To Switch the Evaporative valve

The Evaporative Vapor Solenoid System valve can be switched on or off with the Function keys during this test. You may also select a group of sensors to view as you activate the Evaporative Vapor System solenoid valve.



Path Reference

Toyota → Diagnostic Menu → Special tests → Purge & Vapor Pressure

Appendix

Fuel Pump

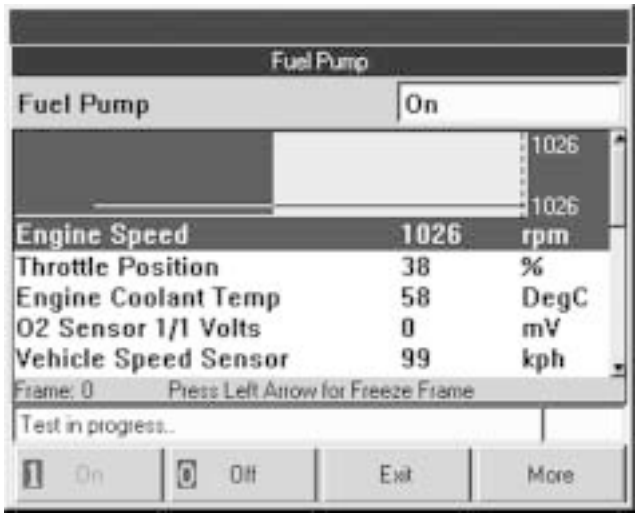
The Fuel Pump option activates the fuel pump to permit testing the pressure and volume of the fuel flow in the fuel delivery system.

To Activate the Fuel Pump

Warning:

- **The Fuel Pump option will activate the vehicle fuel pump, follow the warnings in this manual and in the vehicle service manual when performing this function.**
- **Disconnect the vehicle battery cable if power is disconnected from the tool and the fuel pump continues to run.**
- **Wear approved eye protection at all times.**
- **Release the fuel system pressure before servicing the fuel system components.**
- **Fuel under pressure and spilled fuel on the engine will create a fire hazard. Wrap a shop towel around the pressure tap fittings when connecting or disconnecting adapters. Dispose the shop towel as a flammable item.**
- **Observe normal precautions for working with flammable liquids. No smoking, open flames or electrical sparks are permitted in the area.**
- **Have a Class B fire extinguisher available while working on fuel systems.**

Press the ON Function key to activate the fuel pump. Press the OFF Function key to stop the fuel pump.



Path Reference

Toyota → Diagnostic Menu → Special tests → Fuel Pump

Vehicle Menus

Toyota, Lexus, Honda, Acura, Nissan/Infiniti, Mitsubishi, Mazda, Hyundai, Subaru, Isuzu, Suzuki, Kia and OBD II

	TOYOTA / LEXUS	HONDA / ACURA	INFINITI	MITSUBISHI	MAZDA	HYUNDAI	SUBARU	ISUZU	SUZUKI	KIA	OBD II
ENGINE (DATA STREAM)	X	X	X	X	X	X	X	X	X	X	X
TRANSMISSION (DATASTREAM	X	X	X	X	X	X	X	X	X	X	X
ABS (MANUAL CODES)	X	X	X								
AIRBAG (MANUAL CODES)	X	X	X								
DATA STREAM	X	X	X	X	X	X	X	X	X	X	X
DIAGNOSTIC CODES	X	X	X	X	X	X	X	X	X	X	X
READ CODES	X	X	X	X	X	X	X	X	X	X	X
PENDING CODES	X	X	X	X	X	X	X	X	X	X	X
CLEAR CODES	X	X	X	X	X	X	X	X	X	X	X
FREEZE FRAME	X	X	X	X	X	X	X	X	X	X	X
SPECIAL TESTS	X	X	X	X	X	X	X	X	X	X	X
READINESS STATUS	X	X	X	X	X	X	X	X	X	X	X
O2 TESTS	X	X	X	X	X	X	X	X	X	X	X
FUEL PUMP	X										
IAC POSITION	X										
PURGE & VAPOR PRESSURE	X										

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1. Quantity
2. Part number
3. Item description

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If you have any questions on the operation of the product, please call: **(800) 533-6127**

Repair Service

When sending your SPX electronic product in for repair, please include the following information:

- company name
- contact name
- telephone number
- description of the problem
- proof-of-purchase for warranty repairs
- preferred method of payment for non-warranty repairs

Payment can be made with Visa, Master Card, COD, or with approved credit terms. To receive a credit application, please fax your request to the Credit Department at 800-344-4013.

Send the unit to:

SPX Corporation, Owatonna Facility
2300 Park Drive, Owatonna, MN 55060
Attn: Repair

Owatonna, MN 55060-1171
Phone: 507-455-7000. Fax: 507-455-7106
Customer Service: 1-800-533-6127
Customer Service Fax: 1-800-283-8665
Technical Services: 1-800-533-6127
Technical Services Fax: 1-800-955-8329
International Sales: 507-455-7290
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