

DESCRIPTION AND OPERATION (Continued)

Average economy can be reset by pressing the RESET button while Average Economy is displayed. A reset causes the current instantaneous fuel economy value to be displayed as the average fuel economy. This value is then updated according to continuing changes in vehicle speed and fuel consumption.

Distance To Empty

Distance to empty (DTE) is the distance that can be travelled before the fuel tank becomes empty. The Distance To Empty value is displayed in whole kilometers or miles along with the km or MILES logo. The range of distance to empty which can be displayed is from 0 to 999 kilometers or miles.

NOTE: Distance to empty cannot be reset.

Low DTE Alert

At 80 km (50 miles) to empty, the fuel computer self selects the Distance To Empty function, provides a one second audible tone, and flashes the DTE value for approximately five seconds. The display continues to indicate DTE (not flashing) until another function is selected. This alert will reoccur at 40 km (25 miles) and at 16 km (10 miles) to empty and at every subsequent power up below 80 km (50 miles) to empty.

System Scanner

The system scanner takes inputs from the lamp out module, washer fluid level, oil level, and door ajar sensors and displays the appropriate diagnostic message. The engine coolant temperature electronic gauge is also included in the system scanner display. Based on the inputs from the various sensors, the system scanner will display the following messages:

- DOOR AJAR
- WASHER FLUID
- NORMAL
- HEADLAMP OUT
- REAR LAMP OUT
- CHECK OIL

When a warning condition first occurs, the diagnostic message is displayed accompanied by a one-second tone. The message will remain on the display as long as it is active, but no further tones are issued.

If more than one warning condition occurs, each message will be displayed simultaneously. When the message first appears it will be accompanied by a one second tone.

DOOR AJAR

The door ajar signal comes from switches located in the door jamb. When any door is open, the appropriate wire to the system scanner will be grounded and the words DOOR AJAR will appear on the scanner display. The message will be cleared from the display when the warning condition is removed (the door is closed).

WASHER FLUID LOW

The low washer fluid level signal comes from a switch located in the washer fluid reservoir. When the washer fluid level is low and the washer / wiper switch is activated, the wire to the system scanner will be pulled high and the words WASHER FLUID LOW will appear on the display. The message will remain displayed until key OFF.

NORMAL

If no system faults are present at power up, the display will indicate NORMAL for five seconds following prove out before blanking. If a fault is present, the appropriate message is displayed immediately following prove out.

HEADLAMP OUT

Indicates a Low-Beam Headlamp burnout when the light switch is turned to the headlamp position. The Lamp Outage Module provides the ground to light this message. Once the message appears it will remain on the display until the ignition switch is turned to the OFF position.

REAR LAMP OUT

Indicates a Brake Lamp burn out when the brake pedal is pressed. It also indicates a Rear Parking Lamp burnout when the light switch is turned to either the parking lamp or headlamp position. The Lamp Outage Module provides the ground to light this message. Once the message appears it will remain on the display until the ignition switch is turned to the OFF position.

CHECK OIL

The CHECK OIL signal comes from the oil level sensor in the oil pan. The CHECK OIL message is illuminated when the oil level is low. Refer to Section 13-09 for information on the low oil level indicator.

DIAGNOSIS AND TESTING

Quick Checks

Tool Required:

- Rotunda Digital Volt Ohmmeter 014-00407

Use the electronic instrument cluster (EIC) system schematics and descriptions with Quick Checks for an isolated view of each system for troubleshooting purposes. The description provides an understanding of how the system works, and the Quick Check tells what should happen during operation.

The Diagnostic by Symptom section uses pinpoint tests to service the most likely concerns with the EIC. The Diagnostic by System section gives an overview of the entire system.

Voltage and resistance measurements may be obtained using Rotunda Digital Volt Ohmmeter 014-00407 or equivalent.