

## DIAGNOSIS AND TESTING (Continued)

## EATC—AMBIENT TEMPERATURE SENSOR DIAGNOSIS (Continued)

CONDITION	POSSIBLE SOURCE	ACTION
<ul style="list-style-type: none"> <li>Intermittent Heating and Cooling.</li> <li>Outside Temperature Display Sometimes Inaccurate</li> </ul>	2. Sensor wire harness open or shorted.	<ul style="list-style-type: none"> <li>Disconnect battery cables. Disconnect wire harness connector from sensor and disconnect both connectors from the control assembly.</li> <li>Inspect for crimped terminals.</li> <li>Check for continuity and for possible shorting between the two wire (Pins 1 and 2). Service if necessary. Reconnect wire harness and battery cables.</li> </ul>

TL6397C

## EATC—SUNLOAD SENSOR DIAGNOSIS

CONDITION	POSSIBLE SOURCE	ACTION
<ul style="list-style-type: none"> <li>Self-Diagnostics Error Code 05</li> </ul>	1. Sensor shorted.	<ul style="list-style-type: none"> <li>Disconnect battery cables. Disconnect wire harness connector at sensor and disconnect both connectors from control assembly.</li> </ul> <p>NOTE: Check the sensor for a short using an ohmmeter. Since the sensor is a Photodiode, there should be some unspecified resistance across the terminals dependent upon the available light in the area. The only test that should be made is for a short circuit (zero resistance). If resistance is zero ohms, replace the sensor.</p> <p>Check for continuity and for possible shorting between the two wires (Pin 3 and Pin 16). Repeat if necessary. Reconnect battery cables.</p>

TL6398B

**Compressor Clutch Circuit**

Operation of the A/C compressor clutch is dependent on the ambient temperature and signals from the engine computer. The engine computer will interrupt A/C compressor operation when certain conditions exist. The A/C compressor clutch can be shut off (or kept off) for several seconds at engine start-up, at high engine speeds, during acceleration, when the engine coolant temperature exceeds a predetermined temperature and during low engine idle conditions. Refer to the following diagnostic procedures and, if necessary, the Powertrain Control/Emissions Diagnosis Manual<sup>2</sup> to correct an inoperative compressor clutch condition. The ambient temperature must also be above approximately 10°C (50°F) for the A/C compressor to operate.

<sup>2</sup> Can be purchased as a separate item.