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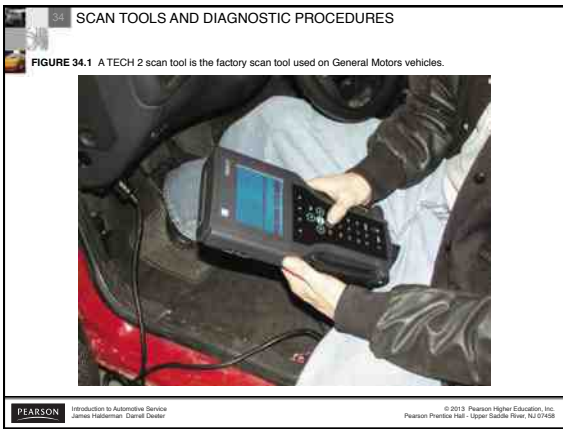
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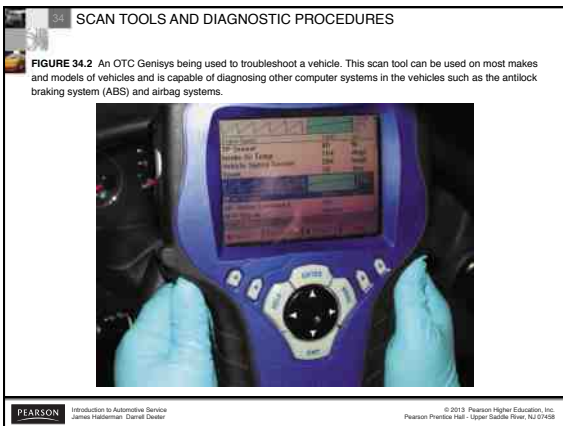
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34 SCAN TOOLS AND DIAGNOSTIC PROCEDURES

**FIGURE 34.3** A typical malfunction indicator lamp (MIL) often labeled "check engine" or "service engine soon" (SES).



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34 SCAN TOOLS AND DIAGNOSTIC PROCEDURES

**FIGURE 34.4** Connecting a scan tool to the data link connector (DLC) located under the dash on this vehicle.



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34 SCAN TOOLS AND DIAGNOSTIC PROCEDURES

**FIGURE 34.5** This is what was found when removing an air filter from a vehicle that had a lack-of-power concern. Obviously, the nuts were deposited by squirrels or some other animal, blocking a lot of the airflow into the engine.



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34 SCAN TOOLS AND DIAGNOSTIC PROCEDURES

FIGURE 34.6 OBD-II DTC identification format.

**EXAMPLE: P0302 = CYLINDER #2 MISFIRE DETECTED**

**B - BODY**  
**C - CHASSIS**  
**P - POWERTRAIN**  
**U - NETWORK**

**0 - GENERIC (SAE)**  
**1 - MANUFACTURER SPECIFIC**

**SPECIFIC FAULT DESIGNATION**

**SPECIFIC VEHICLE SYSTEM**

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34 SCAN TOOLS AND DIAGNOSTIC PROCEDURES

FIGURE 34.7 After checking for stored diagnostic trouble codes (DTCs), the wise technician checks service information for any technical service bulletins that may relate to the vehicle being serviced.

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