

CHECKING MONITOR STATUS

1. OUTLINE

The monitor results and the test values can be checked with the hand-held tester.

The engine control module (ECM) monitors the emissions-related components as the thermostat, catalyst converter and evaporative emissions (EVAP), and determines whether they are functioning normally or not. When finished and monitoring, the ECM stores the monitor results and the test values.

The monitor result indicates whether the component is functioning normally or not. The test value is the value that was used to determine the monitor result. If the test value is outside the test limit (malfunction criterion), the ECM determines the component is malfunctioning. Some emissions-related components have multiple test values to determine monitor result. If one of these test values is outside test limit, the ECM determines the component is malfunctioning. If one of these test values is outside test limit, the ECM determines the components is malfunctioning.

2. DESCRIPTION

The test value and test limit information are described as shown in the following table. This information is included under "MONITOR RESULT" in the emissions-related DTC sections.

Thermostat:

MID	TID	Scaling	Test Result	Minimum Test Limit	Maximum Test Limit
\$E1	\$E8	Multiply by 0.1 [°C]	ECT sensor output when estimated ECT reached to malfunction criteria	Malfunction criteria	Maximum test limit

- MID (Monitor Identification Data) is assigned to each emissions-related component.
- TID (Test Identification Data) is assigned to each test value.
- Scaling is used to calculate the test value indicated on generic hand-held tester.

3. PROCEDURE (USING HAND-HELD TESTER)

- Connect the hand-held tester to the DLC3.
- Turn the ignition switch and hand-held tester ON.
- Clear DTCs.
- Allow the vehicle to drive, in accordance with the applicable drive pattern described in the READINESS MONITOR DRIVE PATTERN section (see page [DI-27](#)).
- Check the monitor result. Select the hand-held tester menus: DIAGNOSIS/ENHANCED OBDII/MONITOR INFO/MONITOR STATUS. The monitor result appears after the component name.
 - AVAIL indicates the component has not been monitored yet.
 - COMPL indicates the component is functioning normally.
 - INCMPL indicates the component is malfunctioning.
- Check the test value(s). Select the hand-held tester menus: DIAGNOSIS/ENHANCED OBDII/MONITOR INFO/TEST RESULT.
- Select the component and press ENTER. If the monitor result has been COMPL or INCMPL, the accuracy test value appears.
- Compare the test value with the test limits, MIN and MAX.
 - If the test value is outside of the test limit, the component is malfunctioning.
 - If the test value is on the borderline of the test limit, a malfunction is concealed in the component.

HINT:

The monitor result might on rare occasions be COMPL even if the malfunction indicator lamp (MIL) is illuminated. This indicates the system malfunctioned on a previous driving cycle. This might be caused by an intermittent problem.