CHECK MODE PROCEDURE

HINT:
Compared to normal mode, check mode is more sensitive to malfunctions and can detect the malfunctions that cannot be detected by normal mode.
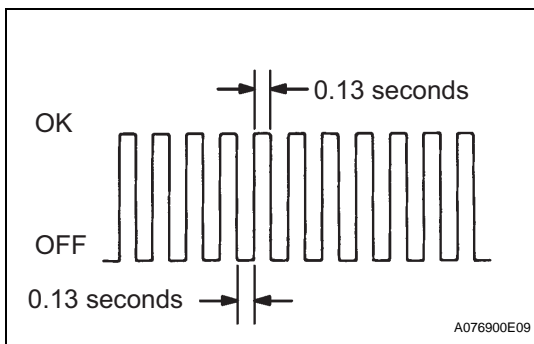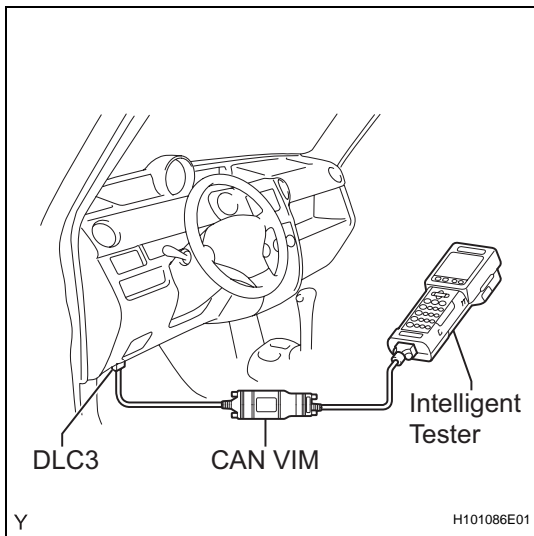
NOTICE:
All the stored DTCs and freeze frame data are erased if: 1) the ECM is changed from normal mode to check mode or vice versa; or 2) the ignition switch is turned from ON to ACC or OFF while in check mode.
Before changing modes, always check and make a note of any DTCs and freeze frame data.

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DLC3 CAN VIM Intelligent Tester

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1. **CHECK MODE PROCEDURE**
   (a) Check and ensure the following conditions:
      (1) Positive (+) battery voltage 11 V or more
      (2) Throttle valve fully closed
      (3) Transmission in the P or N positions
      (4) A/C switch OFF
   (b) Turn the ignition switch OFF.
   (c) Connect the intelligent tester to the DLC3.
   (d) Turn the ignition switch ON and turn the tester ON.
   (e) Enter the following menus: DIAGNOSIS / ENHANCED OBD II / CHECK MODE.
   (f) Switch the ECM from normal mode to check mode.

OK

0.13 seconds

OFF

0.13 seconds

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   (g) Make sure the MIL flashes as shown in the illustration.
   (h) Start the engine.
   (i) Make sure the MIL turns off.
   (j) Simulate the conditions of the malfunction described by the customer.
   (k) Check DTCs and freeze frame data using the tester.

FAIL-SAFE CHART

If any of the following DTCs are set, the ECM enters fail-safe mode to allow the vehicle to be driven temporarily.

DTC	Component	Fail-safe Operation	Fail-safe Deactivation Condition
P0031, P0032, P0037 and P0038	Heated Oxygen (HO2) Sensor Heater	ECM turns off HO2 sensor heater	Ignition switch OFF
P0100, P0102 and P0103	Mass Air Flow (MAF) Meter	ECM calculates ignition timing in accordance with engine RPM and throttle valve position	Pass condition detected
P0110, P0112 and P0113	Intake Air Temperature (IAT) Sensor	ECM estimates IAT to be 20°C (68°F)	Pass condition detected
P0115, P0117 and P0118	Engine Coolant Temperature (ECT) Sensor	ECM estimates ECT to be 80°C (176°F)	Pass condition detected
P0120, P0122 and P0123	Throttle Position (TP) Sensor	ECM cuts fuel intermittently	Pass condition detected and ignition switch OFF
P0121	TP Sensor	ECM cuts fuel intermittently	Pass condition detected and ignition switch OFF
P0327 and P0328	Knock Sensor	ECM sets ignition timing to maximum retard	Ignition switch OFF
P0351 to P0354	Igniter	ECM cuts fuel	Pass condition detected

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