

10. Read Diagnostic Trouble Code (DTC)

A: OPERATION

1. SUBARU SELECT MONITOR (NORMAL MODE)

- 1) On the «Main Menu» display screen, select the {Each System Check}.
- 2) On the «System Selection Menu» display screen, select the {Engine Control System}.
- 3) Select the [OK] after the information of engine type has been displayed.
- 4) On the «Engine Diagnosis» screen, select the {DTC Display}.
- 5) On the «Diagnostic Code(s) Display» screen, select the {Current Diagnostic Code(s)} or {History Diagnostic Code(s)}.

NOTE:

- For detailed operation procedure, refer to the “SUBARU SELECT MONITOR OPERATION MANUAL”.
- For details concerning DTC, refer to “List of Diagnostic Trouble Code (DTC)”. <Ref. to EN(H6DO)(diag)-75, List of Diagnostic Trouble Code (DTC).>

2. SUBARU SELECT MONITOR (OBD MODE)

- 1) On the «Main Menu» display screen, select the {Each System Check}.
- 2) On the «System Selection Menu» display screen, select the {Engine Control System}.
- 3) Select the [OK] after the information of engine type has been displayed.
- 4) On the «Engine Diagnosis» display screen, select the {OBD System}.
- 5) On the «OBD Menu» display screen, select the Diagnostic Code(s) Display.
- 6) Make sure DTC is shown on the screen.

NOTE:

- For detailed operation procedure, refer to the “SUBARU SELECT MONITOR OPERATION MANUAL”.
- For details concerning DTC, refer to “List of Diagnostic Trouble Code (DTC)”. <Ref. to EN(H6DO)(diag)-75, List of Diagnostic Trouble Code (DTC).>

3. GENERAL SCAN TOOL

Refer to the data denoting emission-related powertrain DTC.

For details concerning DTC, refer to “List of Diagnostic Trouble Code (DTC)”. <Ref. to EN(H6DO)(diag)-75, List of Diagnostic Trouble Code (DTC).>

NOTE:

Refer to the general scan tool manufacturer's operation manual to access powertrain DTC (MODE \$03).

Inspection Mode

ENGINE (DIAGNOSTICS)

11. Inspection Mode

A: PROCEDURE

When performing the diagnosis not listed in “List of Diagnostic Trouble Code (DTC)”, refer the item on the drive cycle. <Ref. to EN(H6DO)(diag)-43, Drive Cycle.>

| DTC | Item | On condition |
|-------|--|--------------|
| P0011 | Intake Camshaft Position - Timing Over-Advanced Or System Performance (Bank 1) | — |
| P0016 | Crankshaft Position - Camshaft Position Correlation (Bank 1) | — |
| P0018 | Crankshaft Position - Camshaft Position Correlation (Bank 2) | — |
| P0021 | Intake Camshaft Position - Timing Over-Advanced or System Performance (Bank 2) | — |
| P0031 | HO2S Heater Control Circuit Low (Bank 1 Sensor 1) | — |
| P0032 | HO2S Heater Control Circuit High (Bank 1 Sensor 1) | — |
| P0037 | HO2S Heater Control Circuit Low (Bank 1 Sensor 2) | — |
| P0038 | HO2S Heater Control Circuit High (Bank 1 Sensor 2) | — |
| P0051 | HO2S Heater Control Circuit Low (Bank 2 Sensor 1) | — |
| P0052 | HO2S Heater Control Circuit High (Bank 2 Sensor 1) | — |
| P0057 | HO2S Heater Control Circuit Low (Bank 2 Sensor 2) | — |
| P0058 | HO2S Heater Control Circuit High (Bank 2 Sensor 2) | — |
| P0077 | Intake Valve Control Solenoid Circuit High (Bank 1) | — |
| P0083 | Intake Valve Control Solenoid Circuit High (Bank 2) | — |
| P0102 | Mass or Volume Air Flow Circuit Low Input | — |
| P0103 | Mass or Volume Air Flow Circuit High Input | — |
| P0107 | Manifold Absolute Pressure/Barometric Pressure Circuit Low Input | — |
| P0108 | Manifold Absolute Pressure/Barometric Pressure Circuit High Input | — |
| P0112 | Intake Air Temperature Sensor 1 Circuit Low | — |
| P0113 | Intake Air Temperature Sensor 1 Circuit High | — |
| P0117 | Engine Coolant Temperature Circuit Low | — |
| P0118 | Engine Coolant Temperature Circuit High | — |
| P0122 | Throttle/Pedal Position Sensor/Switch “A” Circuit Low | — |
| P0123 | Throttle/Pedal Position Sensor/Switch “A” Circuit High | — |
| P0131 | O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1) | — |
| P0132 | O2 Sensor Circuit High Voltage (Bank 1 Sensor 1) | — |
| P0137 | O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2) | — |
| P0138 | O2 Sensor Circuit High Voltage (Bank 1 Sensor 2) | — |
| P0140 | O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 2) | — |
| P0151 | O2 Sensor Circuit Low Voltage (Bank 2 Sensor 1) | — |
| P0152 | O2 Sensor Circuit High Voltage (Bank 2 Sensor 1) | — |
| P0157 | O2 Sensor Circuit Low Voltage (Bank 2 Sensor 2) | — |
| P0158 | O2 Sensor Circuit High Voltage (Bank 2 Sensor 2) | — |
| P0160 | O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 2) | — |
| P0182 | Fuel Temperature Sensor “A” Circuit Low Input | — |
| P0183 | Fuel Temperature Sensor “A” Circuit High Input | — |
| P0197 | Engine Oil Temperature Sensor Low | — |
| P0198 | Engine Oil Temperature Sensor High | — |
| P0222 | Throttle/Pedal Position Sensor/Switch “B” Circuit Low | — |
| P0223 | Throttle/Pedal Position Sensor/Switch “B” Circuit High | — |
| P0230 | Fuel Pump Primary Circuit | — |
| P0327 | Knock Sensor 1 Circuit Low (Bank 1 or Single Sensor) | — |
| P0328 | Knock Sensor 1 Circuit High (Bank 1 or Single Sensor) | — |
| P0332 | Knock Sensor 2 Circuit Low (Bank 2) | — |
| P0333 | Knock Sensor 2 Circuit High (Bank 2) | — |

Inspection Mode

ENGINE (DIAGNOSTICS)

| DTC | Item | On condition |
|-------|---|--------------|
| P0335 | Crankshaft Position Sensor "A" Circuit | — |
| P0336 | Crankshaft Position Sensor "A" Circuit Range/Performance | — |
| P0340 | Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor) | — |
| P0345 | Camshaft Position Sensor "A" Circuit (Bank 2) | — |
| P0447 | Evaporative Emission Control System Vent Control Circuit Open | — |
| P0448 | Evaporative Emission Control System Vent Control Circuit Shorted | — |
| P0452 | Evaporative Emission Control System Pressure Sensor Low Input | — |
| P0453 | Evaporative Emission Control System Pressure Sensor High Input | — |
| P0458 | Evaporative Emission System Purge Control Valve Circuit Low | — |
| P0462 | Fuel Level Sensor "A" Circuit Low | — |
| P0463 | Fuel Level Sensor "A" Circuit High | — |
| P0500 | Vehicle Speed Sensor "A" | — |
| P0512 | Starter Request Circuit | — |
| P0513 | Incorrect Immobilizer Key | — |
| P0519 | Idle Air Control System Performance | — |
| P0600 | Serial Communication Link | — |
| P0604 | Internal Control Module Random Access Memory (RAM) Error | — |
| P0605 | Internal Control Module Read Only Memory (ROM) Error | — |
| P0607 | Control Module Performance | — |
| P0638 | Throttle Actuator Control Range/Performance (Bank 1) | — |
| P0691 | Fan 1 Control Circuit Low | — |
| P0692 | Fan 1 Control Circuit High | — |
| P0700 | Transmission Control System (MIL Request) | — |
| P1152 | O2 Sensor Circuit Range/Performance (Low) (Bank 1 Sensor 1) | — |
| P1153 | O2 Sensor Circuit Range/Performance (High) (Bank 1 Sensor 1) | — |
| P1154 | O2 Sensor Circuit Range/Performance (Low) (Bank 2 Sensor 1) | — |
| P1155 | O2 Sensor Circuit Range/Performance (High) (Bank 2 Sensor 1) | — |
| P1160 | Return Spring Failure | — |
| P1518 | Starter Switch Circuit Low Input | — |
| P1560 | Back-Up Voltage Circuit Malfunction | — |
| P1570 | Antenna | — |
| P1571 | Reference Code Incompatibility | — |
| P1572 | IMM Circuit Failure (Except Antenna Circuit) | — |
| P1574 | Key Communication Failure | — |
| P1576 | EGI Control Module EEPROM | — |
| P1577 | IMM Control Module EEPROM | — |
| P1578 | Meter Failure | — |
| P2088 | OCV Solenoid Valve Signal A Circuit Open (Bank 1) | — |
| P2089 | OCV Solenoid Valve Signal A Circuit Short (Bank 1) | — |
| P2092 | OCV Solenoid Valve Signal A Circuit Open (Bank 2) | — |
| P2093 | OCV Solenoid Valve Signal A Circuit Short (Bank 2) | — |
| P2101 | Throttle Actuator Control Motor Circuit Range/Performance | — |
| P2102 | Throttle Actuator Control Motor Circuit Low | — |
| P2103 | Throttle Actuator Control Motor Circuit High | — |
| P2109 | Throttle/Pedal Position Sensor "A" Minimum Stop Performance | — |
| P2122 | Throttle/Pedal Position Sensor/Switch "D" Circuit Low Input | — |
| P2123 | Throttle/Pedal Position Sensor/Switch "D" Circuit High Input | — |
| P2127 | Throttle/Pedal Position Sensor/Switch "E" Circuit Low Input | — |
| P2128 | Throttle/Pedal Position Sensor/Switch "E" Circuit High Input | — |
| P2135 | Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation | — |