15.System Operation Check Mode
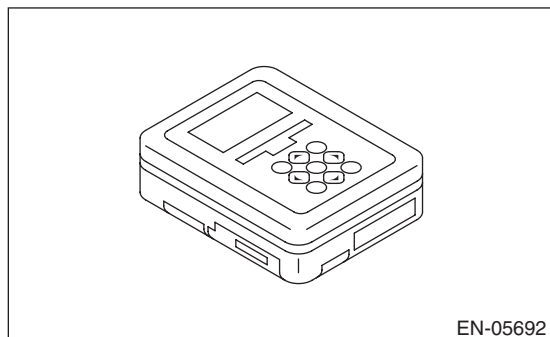
A: OPERATION

1) Prepare the Subaru Select Monitor kit. <Ref. to EN(H6DO)(diag)-7, PREPARATION TOOL, General Description.>

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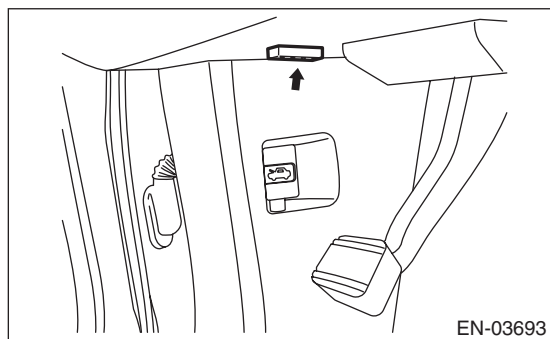2) Prepare PC with Subaru Select Monitor installed.

3) Connect the SDI (Subaru Diagnostic Interface) to the PC USB port (exclusively for Subaru Select Monitor) using a USB cable.

NOTE:
The dedicated port for the Subaru Select Monitor means the USB port which was used to install the Subaru Select Monitor.

4) Connect the diagnosis cable to SDI.

5) Connect the SDI to data link connector located in the lower portion of the instrument panel (on the driver's side).

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CAUTION:
Do not connect the scan tools except for Subaru Select Monitor and general scan tool.

6) Start up the PC.

7) Turn the ignition switch to ON (engine OFF), and run the "Application for Subaru Select Monitor".

8) On the «Main Menu», select {Each System Check}.

9) On the «System Selection Menu», select {Engine Control System}.

10) Click the [OK] key after the information regarding engine type has been displayed.

11) Select {System Operation Check Mode} on the «Engine Diagnosis» display screen.

12) The following items are displayed on the monitor.

Display
Actuator ON/OFF Operation
Immobilizer System
Fuel Pump Control
Fixed Idle Ignition Timing
Idle Speed Control
Injector Control
EGR Valve Control

1. FUEL PUMP CONTROL (OFF OPERATION)

CAUTION:
After executing the operation check mode, execute the Clear Memory Mode. <Ref. to EN(H6DO)(diag)-54, OPERATION, Clear Memory Mode.>

1) On the «System Operation Check Mode» display, select the {Fuel Pump Control}.

2) On the «Fuel Pump Control» display screen, select the {OFF Operation}.

3) On the «Start the Engine» display screen, start the engine and click the [OK] button.

4) On the «OFF drive» display screen, click the [Execution] button and execute OFF drive.

5) Click the [Cancel] button to stop the OFF drive.

6) Click the [[F12] Exit] button to end the OFF drive. The screen will return to the «Fuel Pump Control» screen.

NOTE:
For detailed operation procedure, refer to the "PC application help for Subaru Select Monitor".

2. FUEL PUMP CONTROL (ON/OFF OPERATION)

CAUTION:
After executing the operation check mode, execute the Clear Memory Mode. <Ref. to EN(H6DO)(diag)-54, OPERATION, Clear Memory Mode.>

1) On the «System Operation Check Mode» display, select the {Fuel Pump Control}.

2) On the «Fuel Pump Control» display screen, select the {ON/OFF Dr.}.

3) On the «Turn Ignition Switch ON with Engine Stalled» display screen, turn the ignition switch to ON and click the [OK] button.

4) On the «ON/OFF dr.» display screen, click the [Execution] button and execute ON/OFF drive.

5) Click the [Cancel] button to stop the ON/OFF drive.

6) Click the [[F12] Exit] button to end the ON/OFF drive. The screen will return to the «Fuel Pump Control» screen.

NOTE:
For detailed operation procedure, refer to the "PC application help for Subaru Select Monitor".

3. IDLING IGNITION TIMING FIXED

CAUTION:
After executing the operation check mode, execute the Clear Memory Mode. <Ref. to EN(H6DO)(diag)-54, OPERATION, Clear Memory Mode.>
1) On the «System Operation Check Mode» display screen, select the {Fixed Idle Ignition Timing}.
2) On the «Start the Engine» display screen, start the engine and click the [OK] button.
3) On the «Fixed Idle Ignition Timing» display screen, click the [Execution] button and execute idling ignition timing fixed.
4) Click the [Cancel] button to stop the idle ignition timing fixed.
5) Click the [[F12] Exit] button to end the idle ignition timing fixed. The display will then return to the «System Operation Check Mode» screen.

NOTE:
For detailed operation procedure, refer to the "PC application help for Subaru Select Monitor".

4. IDLE SPEED CONTROL

CAUTION:
After executing the operation check mode, execute the Clear Memory Mode. <Ref. to EN(H6DO)(diag)-54, OPERATION, Clear Memory Mode.>
1) On the «System Operation Check Mode» display screen, select the {Idle Speed Control}.
2) On the «Start the Engine» display screen, start the engine and click the [OK] button.
3) In the «Idle Engine Speed Control» screen, click the [△] button or the [▽] button to change the setting values, then click the [OK] button.
Setting is possible in a range between 500 rpm — 2,000 rpm, in increments of 50 rpm. However, the engine speed that can actually be controlled will vary depending on the vehicle.
4) Click the [Cancel] button to stop the idle speed control.
5) Click the [[F12] Exit] button to end the idle speed control. The display will then return to the «System Operation Check Mode» screen.

NOTE:
For detailed operation procedure, refer to the "PC application help for Subaru Select Monitor".

5. INJECTOR CONTROL (INJECTION STOP MODE)

CAUTION:
After executing the operation check mode, execute the Clear Memory Mode. <Ref. to EN(H6DO)(diag)-54, OPERATION, Clear Memory Mode.>
1) On the «System Operation Check Mode» display, select the {Injector Control}.
2) On the «Injector Control» display screen, select the {Injection Stop Mode}.
3) On the «Injection Stop Mode», display screen, select a fuel injector to be stopped.
4) On the «Start the Engine» display screen, start the engine and click the [OK] button.
5) On the «Fuel Injector #» display screen, click the [Execution] button and execute injection stop mode.
6) Click the [Cancel] button to stop the injection stop mode.
7) Click the [[F12] Exit] button to return the «Injection Stop Mode» display screen.
8) On the «Injection Stop Mode» display screen, click the [Return] button to end the «Injection Stop Mode». The screen will return to the «Injector Control» screen.

NOTE:
For detailed operation procedure, refer to the "PC application help for Subaru Select Monitor".

6. INJECTOR CONTROL (INJECTION QUANTITY CONTROL)

CAUTION:
After executing the operation check mode, execute the Clear Memory Mode. <Ref. to EN(H6DO)(diag)-54, OPERATION, Clear Memory Mode.>
1) On the «System Operation Check Mode» display, select the {Injector Control}.
2) On the «Injector Control» display screen, select the {Injection Quantity Control}.
3) On the «Start the Engine» display screen, start the engine and click the [OK] button.
4) In the «Injection Quantity Control» screen, click the [△] button or the [▽] button to change the setting values, then click the [OK] button.
Setting is possible in a range between 0 — 20%, in increments of 1%.
5) Click the [Cancel] button to stop the injection quantity control.
6) Click the [[F12] Exit] button to end the injection quantity control. The screen will return to the «Injector Control» screen.

NOTE:
For detailed operation procedure, refer to the "PC application help for Subaru Select Monitor".

7. EGR VALVE CONTROL

CAUTION:
After executing the operation check mode, execute the Clear Memory Mode. <Ref. to EN(H6DO)(diag)-54, OPERATION, Clear Memory Mode.>
1) On the «System Operation Check Mode» display, select the {EGR Valve Control}.
2) On the «Start the Engine» display screen, start the engine and click the [OK] button.
3) In the «EGR Valve Control» screen, click the [△] button or the [▽] button to change the setting values, then click the [OK] button.
Setting is possible in increments of 1 STEP. However, the STEP number that can actually be controlled will vary depending on the vehicle.
4) Click the [Cancel] button to stop the EGR valve control.
5) Click the [⌨ Exit] button to end the EGR valve control. The display will then return to the «System Operation Check Mode» screen.

NOTE:
For detailed operation procedure, refer to the "PC application help for Subaru Select Monitor".