

Inspection Mode

ENGINE (DIAGNOSTICS)

DTC	Item	On condition
P2138	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	—
P2227	Barometric Pressure Circuit Range/Performance	—
P2228	Barometric Pressure Circuit Low	—
P2229	Barometric Pressure Circuit High	—

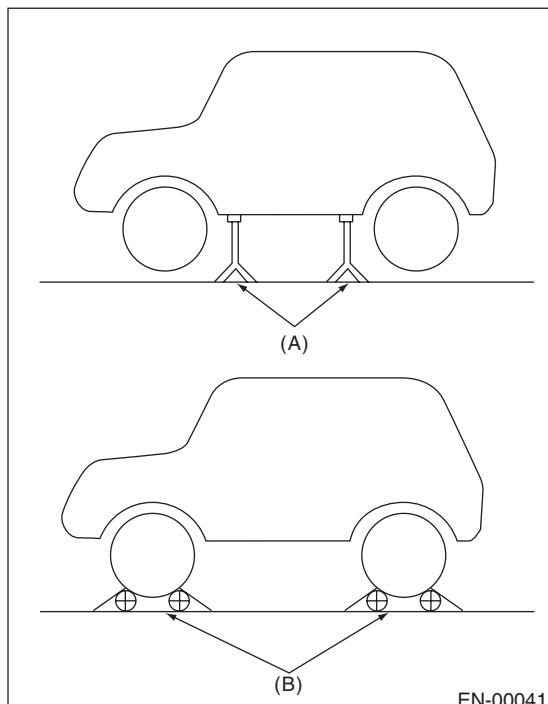
1. PREPARATION FOR THE INSPECTION MODE

- 1) Check battery voltage is more than 12 V and fuel remains half [20 to 40 ℥ (5.3 to 10.6 US gal, 4.4 to 8.8 Imp gal)].
- 2) Lift-up the vehicle using a garage jack and place it on rigid racks, or drive the vehicle onto free rollers.

WARNING:

- Before lifting-up the vehicle, ensure parking brakes are applied.
- Do not use a pantograph jack in place of a rigid rack.
- Secure a rope or wire to the front or rear towing hooks to prevent the lateral runout of front wheels.
- Before running the wheels, make sure there is no one standing in front of the vehicle. Make sure that no one approaches the front of the vehicle while running the wheels.
- Make sure there are no objects near the wheels. For AWD models, be careful for all 4 wheels.
- While working, do not abruptly depress/release the clutch pedal or accelerator pedal regardless of engine speed. Abrupt operations may cause the vehicle to come off of the free roller.

- In order to prevent the vehicle from slipping due to vibration, do not place any wooden blocks or similar items between the rigid racks and vehicle.



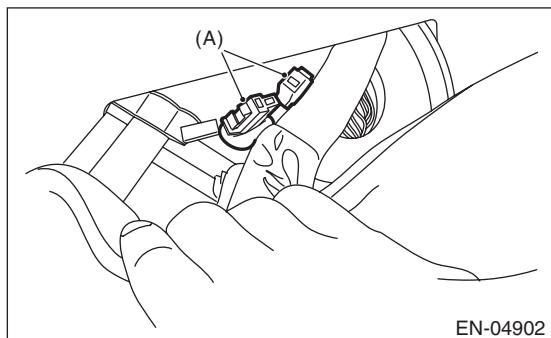
(A) Rigid racks

(B) Free rollers

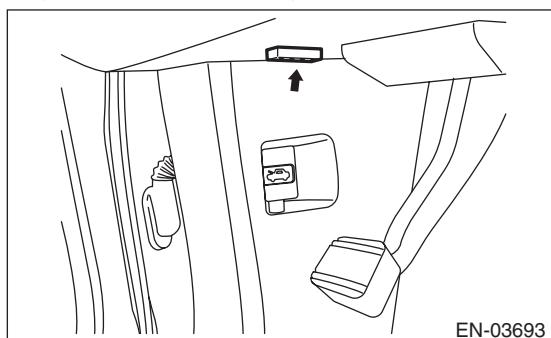
2. SUBARU SELECT MONITOR

- 1) After clearing the memory, check for any remaining unresolved trouble data. <Ref. to EN(H6DO)(diag)-49, Clear Memory Mode.>
- 2) Idle the engine.
- 3) Prepare the Subaru Select Monitor kit. <Ref. to EN(H6DO)(diag)-7, PREPARATION TOOL, General Description.>
- 4) Connect the diagnosis cable to the Subaru Select Monitor.

5) Connect the test mode connector (A) located under the glove box.



6) Connect the Subaru Select Monitor to the data link connector at the lower portion of instrument panel (on the driver's side).



CAUTION:

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

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

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

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

10) Select the [OK] after the information of engine type has been displayed.

11) On the «Engine Diagnosis» display screen, select the {D Check}.

12) When the “Perform D Check?” is shown on the screen, select the [OK].

13) Perform subsequent procedures as instructed on the display screen.

- If trouble still remains in the memory, the corresponding DTC appears on the display 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)”.

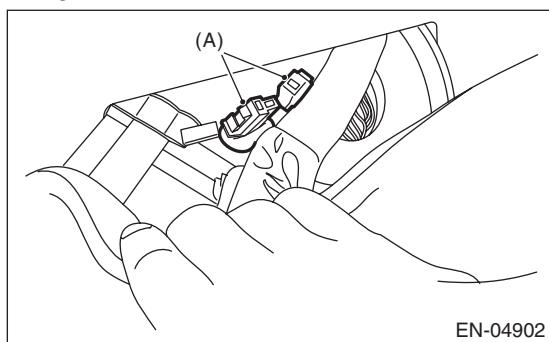
<Ref. to EN(H6DO)(diag)-75, List of Diagnostic Trouble Code (DTC).>

- Release the parking brake.

- The speed difference between front and rear wheels may light the ABS warning light, but this indicates no malfunctions. When engine control diagnosis is finished, perform the ABS memory clearance procedure of self-diagnosis function.

3. GENERAL SCAN TOOL

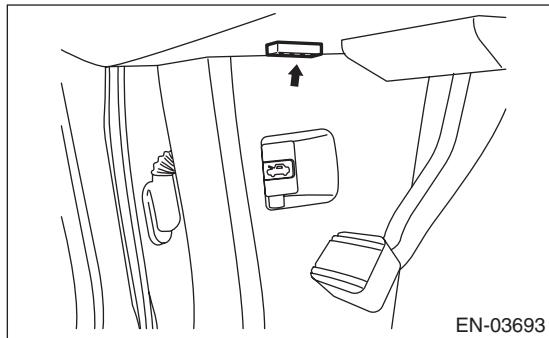
- 1) After performing the diagnostics and clearing the memory, check for any remaining unresolved trouble data. <Ref. to EN(H6DO)(diag)-49, Clear Memory Mode.>
- 2) Idle the engine.
- 3) Connect the test mode connector (A) located under the glove box.



- 4) Connect the Subaru Select Monitor to the data link connector at the lower portion of instrument panel (on the driver's side).

CAUTION:

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



- 5) Start the engine.

NOTE:

Make sure the select lever is placed in "P" position before starting.

- 6) Using the select lever, turn the "P" position switch and the "N" position switch to ON.
- 7) Depress the brake pedal to turn brake switch ON.
- 8) Keep the engine speed in 2,500 — 3,000 rpm range for 40 seconds.
- 9) Shift the select lever in the "D" range and drive the vehicle at 5 to 10 km/h (3 to 6 MPH).

NOTE:

- For AWD model, release the parking brake.
- The speed difference between front and rear wheels may light the ABS warning light, but this indicates no malfunctions. When engine control diagnosis is finished, perform the ABS memory clearance procedure of self-diagnosis system.

- 10) Using the general scan tool, check DTC and record the result(s).

NOTE:

- For detailed operation procedure, refer to the general scan tool 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).>