

Inspection Mode

ENGINE (DIAGNOSTICS)

DTC	Item	Condition
P2135	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	—
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	—
P2431	Secondary Air Injection System Air Flow /Pressure Sensor Circuit Range/Performance	—
P2432	Secondary Air Injection System Air Flow /Pressure Sensor Circuit Low	—
P2433	Secondary Air Injection System Air Flow /Pressure Sensor Circuit High	—
P2444	Secondary Air Injection System Pump Stuck On	—

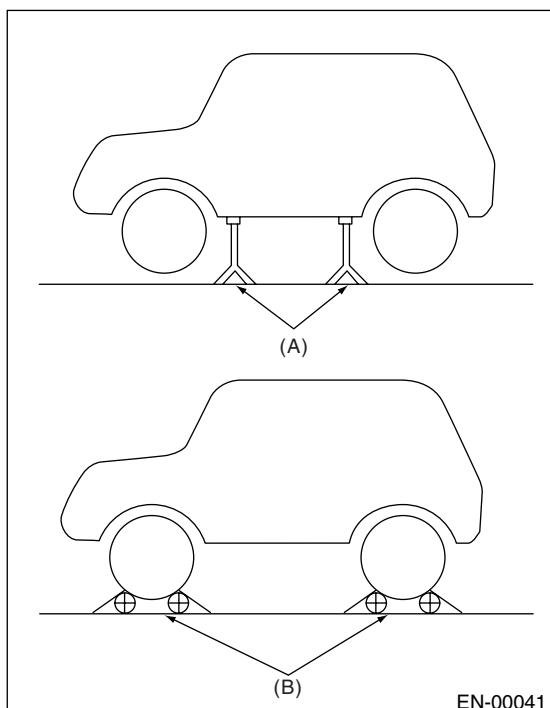
1. PREPARATION FOR THE INSPECTION MODE

- 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 raising 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.
- Do not abruptly depress/release clutch pedal or accelerator pedal during works even when the engine is operating at low speeds since this may cause vehicle to jump off free rollers.
- 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.

- Since the rear wheels will also rotate, do not place anything near them. Also, make sure that nobody goes in front of the vehicle.

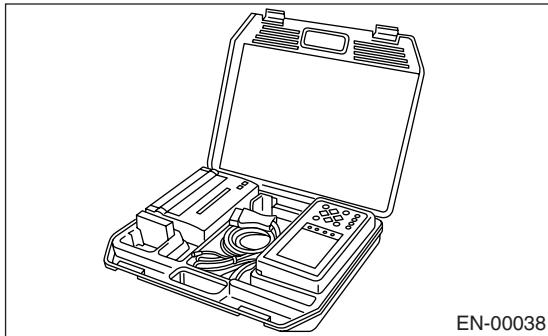


(A) Rigid rack

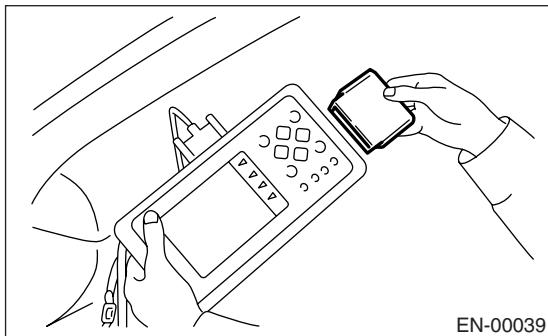
(B) Free roller

2. SUBARU SELECT MONITOR

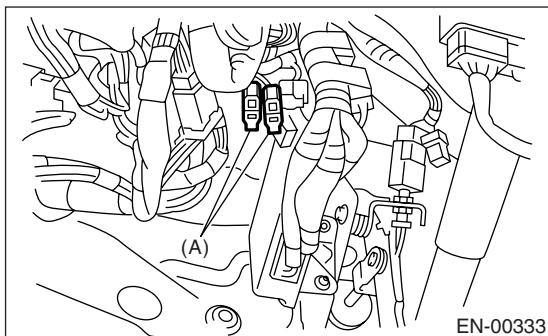
- 1) Idle the engine.
- 2) Prepare the Subaru Select Monitor kit. <Ref. to EN(H4DOTC)(diag)-7, PREPARATION TOOL, General Description.>



- 3) Connect the diagnosis cable to Subaru Select Monitor.
- 4) Insert the cartridge to Subaru Select Monitor. <Ref. to EN(H4DOTC)(diag)-7, PREPARATION TOOL, General Description.>

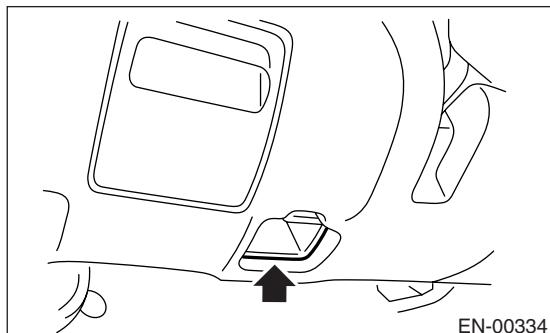


- 5) Connect the test mode connector (A) located at the lower portion of instrument panel (on the driver's side).



(A) Test mode connector

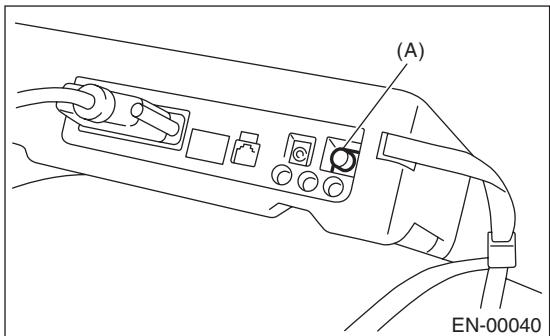
- 6) Connect the Subaru Select Monitor to data link connector located in the lower portion of the instrument panel (on the driver's side).



CAUTION:

Do not connect any scan tools except the Subaru Select Monitor or the general scan tool.

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



(A) Power switch

- 8) On the «Main Menu» display screen, select {Each System Check} and press the [YES] key.
- 9) On the «System Selection Menu» display screen, select {Engine Control System} and press the [YES] key.
- 10) Press the [YES] key after the information of engine type has been displayed.
- 11) On the «Engine Diagnosis» display screen, select {D Check} and press the [YES] key.
- 12) When the “Perform D Check?” is shown on the screen, press the [YES] key.

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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:

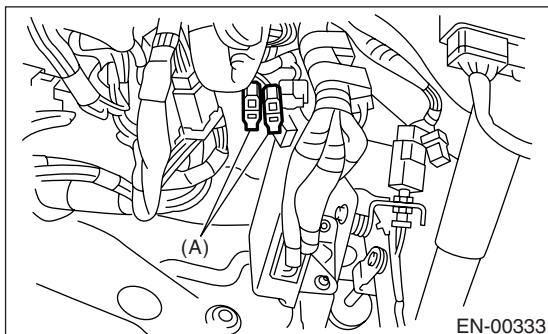
- For detailed operation procedure, refer to the "SUBARU SELECT MONITOR OPERATION MANUAL".
- For details concerning DTC, refer to "List of Diagnostic Trouble Code (DTC)".

<Ref. to EN(H4DOTC)(diag)-65, 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 does not indicate a malfunction. When engine control diagnosis is finished, perform the ABS memory clearance procedure of the self-diagnosis system. <Ref. to ABS(diag)-26, Clear Memory Mode.>

3. GENERAL SCAN TOOL

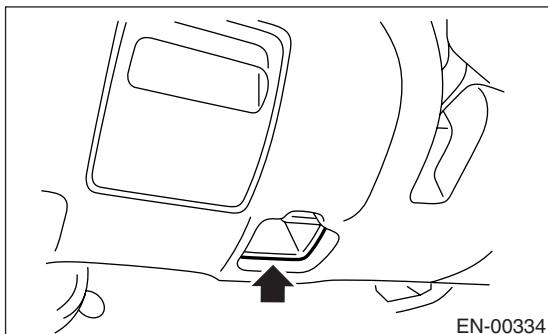
- 1) Idle the engine.
- 2) Connect the test mode connector (A) located at the lower portion of instrument panel (on the driver's side).



- 3) Connect the general scan tool to data link connector located in the lower portion of the instrument panel (on the driver's side).

CAUTION:

Do not connect any scan tools except the Subaru Select Monitor or the general scan tool.



- 4) Start the engine.

NOTE:

- Make sure the select lever is placed in the "P" position before starting. (AT model)
- Depress the clutch pedal when starting engine. (MT model)

- 5) Using the select lever or shift lever, turn the "P" position switch and "N" position switch on.
- 6) Depress the brake pedal to turn brake switch on. (AT model)
- 7) Keep the engine speed in 2,500 — 3,000 rpm range for 40 seconds.
- 8) Place the select lever or shift lever in D position (AT model) or 1st gear (MT model) 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 the self-diagnosis system. <Ref. to ABS(diag)-26, Clear Memory Mode.>

- 9) 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(H4DOTC)(diag)-65, List of Diagnostic Trouble Code (DTC).>