

## 12. Drive Cycle

### A: PROCEDURE

It is necessary to perform the drive cycle listed below if DTC is not found in the Inspection Mode. It is possible to complete diagnosis of the DTC by performing the indicated drive cycle. After the repair for the DTC, perform a necessary drive cycle and make sure the function recovers and the DTC is recorded.

#### 1. PREPARATION FOR DRIVE CYCLE

- 1) Check that the 12 volt auxiliary battery voltage is 12 V or more and fuel remains approx. half [20 — 40 L (5.3 — 10.6 US gal, 4.4 — 8.8 Imp gal)].
- 2) After performing the diagnostics and Clear Memory Mode, check that no DTC remains. <Ref. to EN(H4DO HEV)(diag)-66, Clear Memory Mode.>

#### NOTE:

Perform the drive cycle after warming up the engine except when the engine coolant temperature at engine start is specified.

#### 2. DRIVE CYCLE A

DTC	Item	Condition
P0128	Coolant Thermostat (Engine Coolant Temperature Below Thermostat Regulating Temperature)	—
P0141	O2 Sensor Heater Circuit (Bank1 Sensor2)	—
P014C	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 1)	—
P014D	O2 Sensor Slow Response - Lean to Rich (Bank 1 Sensor 1)	—
P015A	O2 Sensor Delayed Response - Rich to Lean (Bank 1 Sensor 1)	—
P015B	O2 Sensor Delayed Response - Lean to Rich (Bank 1 Sensor 1)	—
P0171	System Too Lean (Bank 1)	Complete diagnosis with drive cycle B or C as well.
P0172	System Too Rich (Bank 1)	Complete diagnosis with drive cycle B or C as well.
P0300	Random/Multiple Cylinder Misfire Detected	Complete diagnosis with drive cycle B or C as well.
P0301	Cylinder 1 Misfire Detected	Complete diagnosis with drive cycle B or C as well.
P0302	Cylinder 2 Misfire Detected	Complete diagnosis with drive cycle B or C as well.
P0303	Cylinder 3 Misfire Detected	Complete diagnosis with drive cycle B or C as well.
P0304	Cylinder 4 Misfire Detected	Complete diagnosis with drive cycle B or C as well.
P0420	Catalyst System Efficiency Below Threshold (Bank 1)	—
P0459	Evaporative Emission System Purge Control Valve Circuit High	—
P2096	Post Catalyst Fuel Trim System Too Lean (Bank 1)	Complete diagnosis with drive cycle B or C as well.
P2097	Post Catalyst Fuel Trim System Too Rich (Bank 1)	Complete diagnosis with drive cycle B or C as well.
P2195	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	—
P2196	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	—

#### Diagnostic procedure:

- 1) Drive for 20 minutes or more at a constant speed of 80 km/h (50 MPH) or more.
- 2) Stop the vehicle and idle for one minute.
- 3) Read the temporary code using the Subaru Select Monitor or general scan tool. <Ref. to EN(H4DO HEV)(diag)-51, OPERATION, Read Diagnostic Trouble Code (DTC).>

# Drive Cycle

## ENGINE (DIAGNOSTICS)

### 3. DRIVE CYCLE B

DTC	Item	Condition
P0010	"A" Camshaft Position Actuator Circuit/Open (Bank 1)	—
P0020	"A" Camshaft Position Actuator Circuit/Open (Bank 2)	—
P0125	Insufficient Coolant Temperature for Closed Loop Fuel Control	«Coolant Temp.» at engine start: Less than $-15^{\circ}\text{C}$ ( $5^{\circ}\text{F}$ )
P0137	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2)	—
P0138	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	—
P0171	System Too Lean (Bank 1)	Complete diagnosis with drive cycle A or C as well.
P0172	System Too Rich (Bank 1)	Complete diagnosis with drive cycle A or C as well.
P0201	Injector #1	—
P0202	Injector #2	—
P0203	Injector #3	—
P0204	Injector #4	—
P0300	Random/Multiple Cylinder Misfire Detected	Complete diagnosis with drive cycle A or C as well.
P0301	Cylinder 1 Misfire Detected	Complete diagnosis with drive cycle A or C as well.
P0302	Cylinder 2 Misfire Detected	Complete diagnosis with drive cycle A or C as well.
P0303	Cylinder 3 Misfire Detected	Complete diagnosis with drive cycle A or C as well.
P0304	Cylinder 4 Misfire Detected	Complete diagnosis with drive cycle A or C as well.
P0351	Ignition Coil A Primary/Secondary Circuit	—
P0352	Ignition Coil B Primary/Secondary Circuit	—
P0353	Ignition Coil C Primary/Secondary Circuit	—
P0354	Ignition Coil D Primary/Secondary Circuit	—
P0500	Vehicle Speed Sensor "A"	—
P0506	Idle Air Control System RPM Lower Than Expected	—
P0507	Idle Air Control System RPM Higher Than Expected	—
P059A	Active Grille Shutter "A" Position Sensor Circuit	«Ambient Temperature»: 3 — $33^{\circ}\text{C}$ ( $37.4$ — $91.4^{\circ}\text{F}$ )
P059F	Active Grille Shutter "A" Performance	
P05A0	Active Grille Shutter "A" Stuck	
P05A1	Active Grille Shutter "A" Range Over	
P05A2	Active Grille Shutter "A" Control Circuit	
P05A6	Active Grille Shutter "A" Supply Voltage Circuit/Open	
P05C0	Active Grille Shutter "A" Over Temperature	—
P0700	Transmission Control System (MIL Request)	—
P2006	Intake Manifold Runner Control Stuck Closed (Bank 1)	—
P2007	Intake Manifold Runner Control Stuck Closed (Bank 2)	—
P2009	Intake Manifold Runner Control Circuit Low (Bank 1)	—
P2012	Intake Manifold Runner Control Circuit Low (Bank 2)	—
P2096	Post Catalyst Fuel Trim System Too Lean (Bank 1)	Complete diagnosis with drive cycle A or C as well.
P2097	Post Catalyst Fuel Trim System Too Rich (Bank 1)	Complete diagnosis with drive cycle A or C as well.
P2135	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	—
P2138	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	—

## Drive Cycle

### ENGINE (DIAGNOSTICS)

DTC	Item	Condition
P219A	Bank 1 Air-Fuel Ratio Imbalance	Complete diagnosis with drive cycle C as well.
P2270	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	Complete diagnosis with drive cycle C as well.
P2271	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	Complete diagnosis with drive cycle C as well.

#### Diagnostic procedure:

- 1) Drive at 10 km/h (6 MPH) or more.
- 2) Stop the vehicle and idle for ten minutes.
- 3) Read the temporary code using the Subaru Select Monitor or general scan tool. <Ref. to EN(H4DO HEV)(diag)-51, OPERATION, Read Diagnostic Trouble Code (DTC).>

# Drive Cycle

## ENGINE (DIAGNOSTICS)

### 4. DRIVE CYCLE C

DTC	Item	Condition
P000A	A Camshaft Position Slow Response (Bank 1)	—
P000B	B Camshaft Position Slow Response (Bank 1)	—
P000C	A Camshaft Position Slow Response (Bank 2)	—
P000D	B Camshaft Position Slow Response (Bank 2)	—
P0011	Intake Camshaft Position - Timing Over-Advanced or System Performance (Bank 1)	—
P0014	Exhaust AVCS System 1 (Range/Performance)	—
P0021	Intake Camshaft Position - Timing Over-Advanced or System Performance (Bank 2)	—
P0024	Exhaust AVCS System 2 (Range/Performance)	—
P0030	HO2S Heater Control Circuit (Bank 1 Sensor 1)	—
P0068	MAP/MAF - Throttle Position Correlation	—
P0101	Mass or Volume Air Flow Circuit Range/Performance	—
P0134	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)	—
P013A	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	—
P013B	O2 Sensor Slow Response - Lean to Rich (Bank 1 Sensor 2)	—
P013E	O2 Sensor Delayed Response - Rich to Lean (Bank 1 Sensor 2)	—
P013F	O2 Sensor Delayed Response - Lean to Rich (Bank 1 Sensor 2)	—
P0171	System Too Lean (Bank 1)	Complete diagnosis with drive cycle A or B as well.
P0172	System Too Rich (Bank 1)	Complete diagnosis with drive cycle A or B as well.
P0300	Random/Multiple Cylinder Misfire Detected	Complete diagnosis with drive cycle A or B as well.
P0301	Cylinder 1 Misfire Detected	Complete diagnosis with drive cycle A or B as well.
P0302	Cylinder 2 Misfire Detected	Complete diagnosis with drive cycle A or B as well.
P0303	Cylinder 3 Misfire Detected	Complete diagnosis with drive cycle A or B as well.
P0304	Cylinder 4 Misfire Detected	Complete diagnosis with drive cycle A or B as well.
P0400	Exhaust Gas Recirculation Flow	—
P0441	Evaporative Emission Cont. Sys. Incorrect Purge Flow	—
P0851	Park/Neutral Switch Input Circuit Low	—
P0852	Park/Neutral Switch Input Circuit High	—
P1449	Evaporative Emission Cont. Sys. Air Filter Clog	—
P1492	EGR Solenoid Valve Signal #1 Circuit Malfunction (Low Input)	—
P1493	EGR Solenoid Valve Signal #1 Circuit Malfunction (High Input)	—
P1494	EGR Solenoid Valve Signal #2 Circuit Malfunction (Low Input)	—
P1495	EGR Solenoid Valve Signal #2 Circuit Malfunction (High Input)	—
P1496	EGR Solenoid Valve Signal #3 Circuit Malfunction (Low Input)	—
P1497	EGR Solenoid Valve Signal #3 Circuit Malfunction (High Input)	—
P1498	EGR Solenoid Valve Signal #4 Circuit Malfunction (Low Input)	—
P1499	EGR Solenoid Valve Signal #4 Circuit Malfunction (High Input)	—
P2004	Intake Manifold Runner Control Stuck Open (Bank 1)	—
P2005	Intake Manifold Runner Control Stuck Open (Bank 2)	—
P2096	Post Catalyst Fuel Trim System Too Lean (Bank 1)	Complete diagnosis with drive cycle A or B as well.

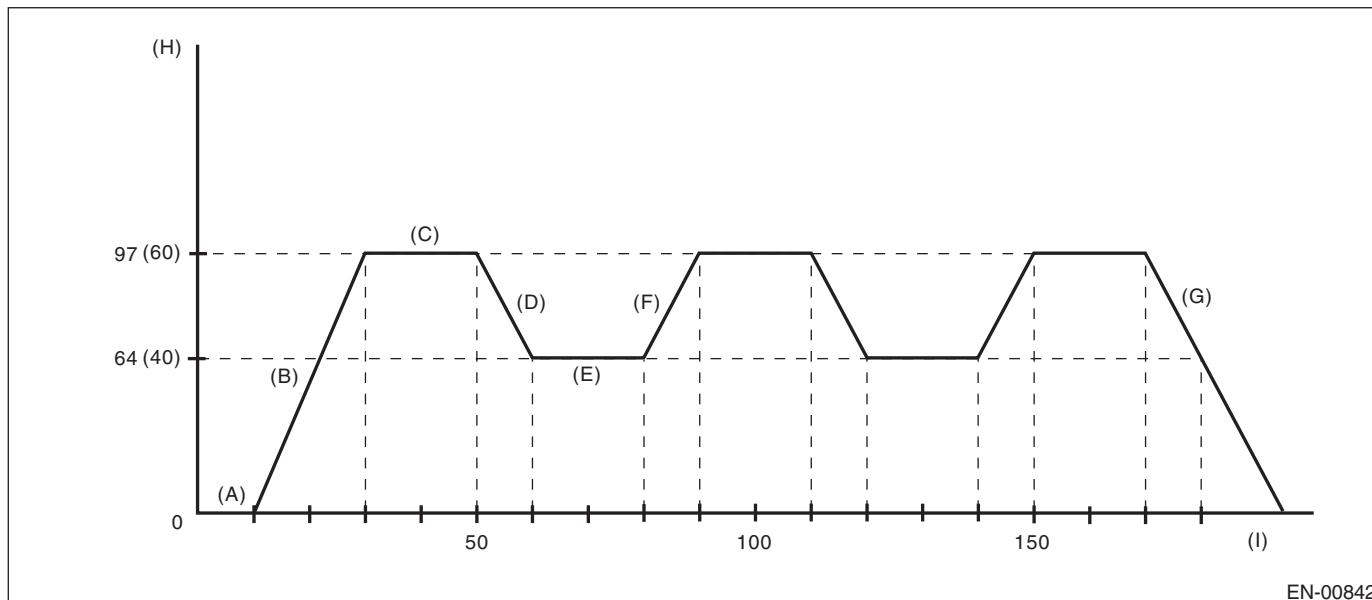
# Drive Cycle

## ENGINE (DIAGNOSTICS)

DTC	Item	Condition
P2097	Post Catalyst Fuel Trim System Too Rich (Bank 1)	Complete diagnosis with drive cycle A or B as well.
P219A	Bank 1 Air-Fuel Ratio Imbalance	Complete diagnosis with drive cycle B as well.
P2270	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	Complete diagnosis with drive cycle B as well.
P2271	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	Complete diagnosis with drive cycle B as well.

### Diagnostic procedure:

- 1) Drive according to the drive pattern described below.



(A) Shift the select lever to "P" range, and let the engine idle for 10 seconds or more.	(D) Decelerate with fully closed throttle to 64 km/h (40 MPH) or less.	(G) Stop vehicle with the throttle fully closed.
(B) Accelerate to 97 km/h (60 MPH) or more within 20 seconds.	(E) Drive for 20 seconds or more at 64 km/h (40 MPH) or less.	(H) Vehicle speed km/h (MPH)
(C) Drive for 20 seconds or more at 97 km/h (60 MPH) or more.	(F) Accelerate to 97 km/h (60 MPH) or more within 10 seconds.	(I) Sec.

- 2) Read the temporary code using the Subaru Select Monitor or general scan tool. <Ref. to EN(H4DO HEV)(diag)-51, OPERATION, Read Diagnostic Trouble Code (DTC).>

## 5. DRIVE CYCLE E

DTC	Item	Condition
P0461	Fuel Level Sensor "A" Circuit Range/Performance	—

### Diagnostic procedure:

- 1) Make sure that the battery voltage is 10.9 V or more.
- 2) Perform the Clear Memory Mode. <Ref. to EN(H4DO HEV)(diag)-66, Clear Memory Mode.>
- 3) Drive for approximately 30 L (7.9 US gal, 6.6 Imp gal) of fuel.

### NOTE:

- It is acceptable to drive the vehicle intermittently.
- Do not disconnect the battery terminals while diagnosing. (Data will be cleared by disconnecting the battery terminals.)

- 4) Read the temporary code using the Subaru Select Monitor or general scan tool. <Ref. to EN(H4DO HEV)(diag)-51, OPERATION, Read Diagnostic Trouble Code (DTC).>

# Drive Cycle

## ENGINE (DIAGNOSTICS)

### 6. DRIVE CYCLE F

DTC	Item	Condition
P0111	Intake Air Temperature Sensor Range/Performance Problem	
P0196	Engine Oil Temperature Sensor Circuit Range/Performance	<ul style="list-style-type: none"> <li>• 6 hours have elapsed since ignition switch is OFF under a completely warmed up condition.</li> <li>• For models with block heater, at least 6 hours must have elapsed without operating the block heater.</li> </ul>

#### Diagnostic procedure:

- 1) With the ignition switch ON (engine stopped), read the values in «Coolant Temp.» and «Intake Air Temp.». <Ref. to EN(H4DO HEV)(diag)-36, DISPLAY CURRENT ENGINE DATA, OPERATION, Subaru Select Monitor.>
- 2) If the values from step 1) satisfy the following conditions, idle the engine for two minute or more.

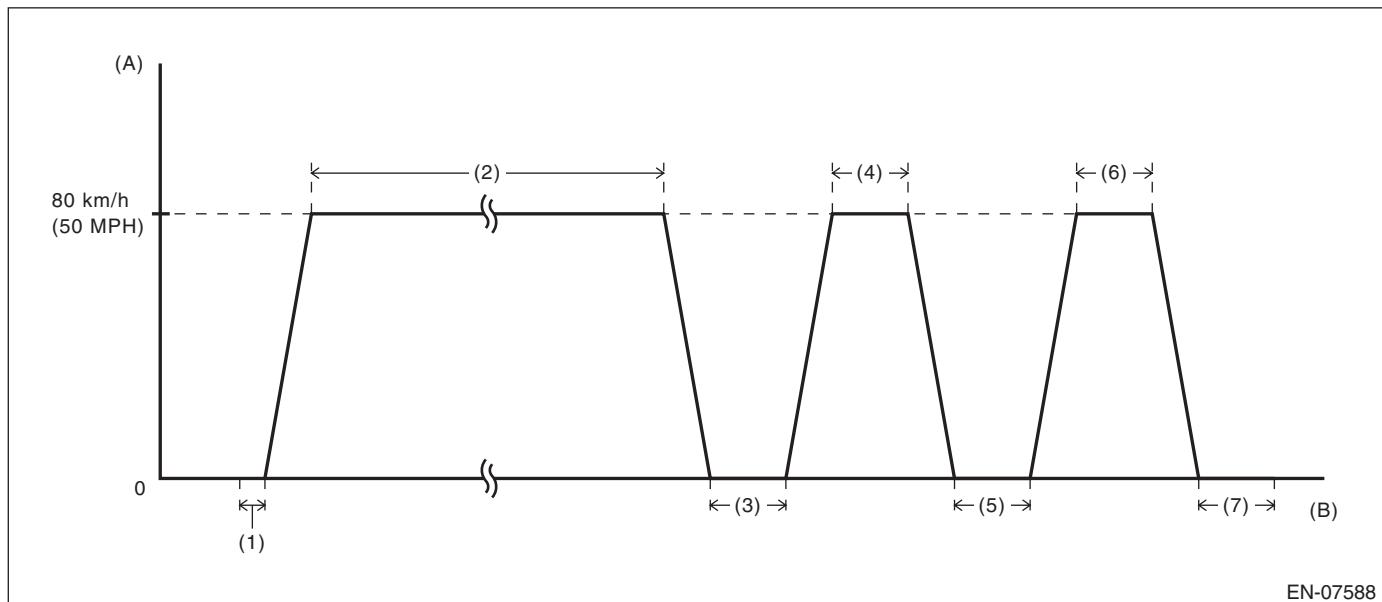
#### Condition:

$$|\text{Engine coolant temperature} - \text{Intake air temperature}| \leq 5^\circ\text{C} (9^\circ\text{F})$$

#### NOTE:

- If the conditions are not satisfied, turn the ignition switch to OFF and wait until the parameters are satisfied.
- Hold the select lever in “P” range or “N” range at idling.

3) Drive according to the drive pattern described below.



(A) Vehicle speed	(B) Elapsed time
-------------------	------------------

(1) Idle the engine for 2 minutes or more.	(4) Drive for 30 seconds or more at a constant speed of 80 km/h (50 MPH) or more.	(6) Drive for 30 seconds or more at a constant speed of 80 km/h (50 MPH) or more.
(2) Drive for 15 minutes or more in total at a speed of 80 km/h (50 MPH) or more.	(5) Stop the vehicle and idle for 30 seconds or more.	(7) Stop the vehicle and idle for 30 seconds.
(3) Stop the vehicle and idle for 30 seconds or more.		

**NOTE:**

- While performing (2), depending on the traffic condition, it is possible to decrease the vehicle speed to less than 80 km/h (50 MPH), or to stop the vehicle. Drive the vehicle until the total time of driving with speed of 80 km/h (50 MPH) or more becomes 15 minutes or more.
- There is no given transition time between idling and cruising.
- Driving at constant speed only on a downhill causes smaller engine load and may result in failure to obtain a right diagnostic result.
- If the ignition switch is turned off while performing the drive cycle F, perform it again after condition in the table is met.

4) Read the temporary code using the Subaru Select Monitor or general scan tool. <Ref. to EN(H4DO HEV)(diag)-51, OPERATION, Read Diagnostic Trouble Code (DTC).>

## 7. DRIVE CYCLE H

DTC	Item	Condition
P0071	Ambient Temperature Sensor Circuit "A" Range/Performance	<ul style="list-style-type: none"><li>• 6 hours have elapsed since ignition switch is OFF under a completely warmed up condition.</li><li>• For vehicle with block heater, wait for 6 hours without operating the block heater.</li></ul>
P0116	Engine Coolant Temperature Sensor 1 Circuit Range/Performance	<ul style="list-style-type: none"><li>• 6 hours have elapsed since ignition switch is OFF under a completely warmed up condition.</li><li>• For vehicle with block heater, wait for 6 hours without operating the block heater.</li></ul>
P0451	Evaporative Emission System Pressure Sensor/Switch Range/Performance	60 seconds have elapsed since ignition switch is OFF.
P050A	Cold Start Idle Air Control System Performance	—
P050B	Cold Start Ignition Timing Performance	—

**Diagnostic procedure:**

- 1) With the ignition switch ON (engine stopped), read the values in «Coolant Temp.» and «Intake Air Temp.». <Ref. to EN(H4DO HEV)(diag)-36, DISPLAY CURRENT ENGINE DATA, OPERATION, Subaru Select Monitor.>
- 2) If the values from step 1) satisfy the following conditions, idle the engine for two minute or more.

**Condition:**

$$|\text{Engine coolant temperature} - \text{Intake air temperature}| \leq 5^{\circ}\text{C} (9^{\circ}\text{F})$$

**NOTE:**

- If the conditions are not satisfied, turn the ignition switch to OFF and wait until the parameters are satisfied.
- Hold the select lever in "P" range or "N" range at idling.

- 3) Read the temporary code using the Subaru Select Monitor or general scan tool. <Ref. to EN(H4DO HEV)(diag)-51, OPERATION, Read Diagnostic Trouble Code (DTC).>

# Drive Cycle

## ENGINE (DIAGNOSTICS)

### 8. DRIVE CYCLE I

DTC	Item	Condition
P0455	Evaporative Emission System Leak Detected (Large Leak)	
P0456	Evaporative Emission Control System Leak Detected (Very Small Leak)	
P1451	Evaporative Emission Cont. Sys.	«Coolant Temp.»: 5 — 45°C (41 — 113°F)
P2402	Evaporative Emission System Leak Detection Pump Control Circuit High	«Intake Air Temp.»: 5 — 50°C (41 — 122°F)
P2404	Evaporative Emission System Leak Detection Pump Sense Circuit Range/Performance	
P2420	Evaporative Emission System Switching Valve Control Circuit High	

#### CAUTION:

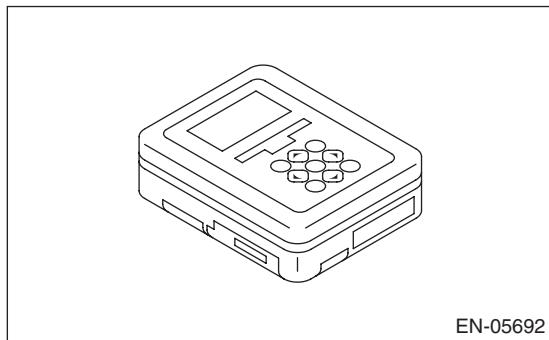
**Be careful of the state of the battery when performing the drive cycle I consecutively. Performing the drive cycle I consecutively without the engine running may cause a low battery voltage and battery discharge.**

#### NOTE:

- If it is necessary to perform drive cycle I consecutively, drive the vehicle under the following conditions to release accumulated evaporating gas. Performing the drive cycle I consecutively without starting the engine causes a large amount of evaporating gas to accumulate in the canister, which hinders an accurate diagnosis.
  - After engine is warmed up.
  - Drive for 10 minutes or more at a speed of 48 km/h (30 MPH) or more (duration of drive can be an accumulation)
- To obtain an accurate diagnostic result, perform the procedures according to the following points.
  - Do not refuel gas immediately before performing drive cycle I. There will be a large amount of evaporating gas immediately after refuel, which may cause a less accurate diagnostic performance.
  - Do not shake the vehicle while performing drive cycle I. Shaking the vehicle causes evaporating gas to increase inside the fuel tank, which may cause a less accurate diagnostic performance.
  - Do not perform any service operation including installation or removal of parts or connectors while performing drive cycle I. Performing service operation could affect on the functions of related parts, which may cause a less accurate diagnostic performance.
- Perform MODE \$08 when using a general scan tool.

#### Diagnostic procedure:

- 1) Prepare the Subaru Select Monitor kit. <Ref. to EN(H4DO HEV)(diag)-8, PREPARATION TOOL, General Description.>



- 2) Prepare PC with Subaru Select Monitor installed.

3) Connect the USB cable to SDI (Subaru Diagnosis Interface) and USB port on the personal computer (dedicated port for the Subaru Select Monitor).

**NOTE:**

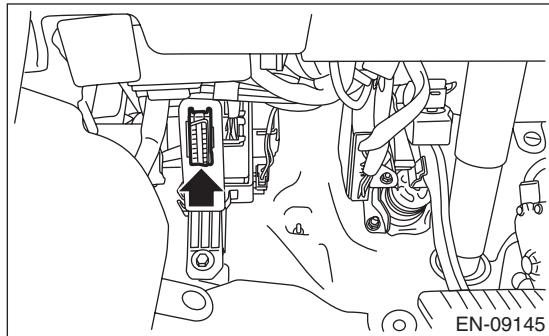
The dedicated port for the Subaru Select Monitor means the USB port which was used to install the Subaru Select Monitor.

4) Connect the diagnosis cable to SDI.

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

**CAUTION:**

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



- 6) Start the PC.
- 7) Turn the ignition switch to ON (engine OFF) and run the "PC application for Subaru Select Monitor".
- 8) On «Main Menu» display, select {Each System Check}.
- 9) On «System Selection Menu» display, select {Engine Control System}.
- 10) Click the [OK] button after the information of engine type has been displayed.
- 11) On «Engine Diagnosis» display, select {OBD System}.
- 12) On «OBD Menu» display, select {Evaporative System Leak Test}.
- 13) On «Evaporative System Leak Test» display, select {Evaporative System Leak Test}.
- 14) On «Evaporative System Leak Test is running. Press Cancel to exit this function.» display, click the [OK] button to perform evaporative system leak test.
- 15) When «Conditions have been enabled to control this function. Turn the ignition switch off to terminate the test.» display appears, wait for 30 minutes without clicking the [OK] button.

**CAUTION:**

**Do not leave the vehicle for an extended period of time after the test is complete. This may cause early deterioration of the battery or discharged battery.**

**NOTE:**

- Clicking the [OK] button bring the «Evaporative System Leak Test» display back, although the test is continuing.
- The Subaru Select Monitor screen does not change after the evaporative system leak test is complete or when the test is aborted by turning off the ignition switch.
- If «Test conditions are not correct» display appears, use Subaru Select Monitor to check that the values in «Coolant Temp.» and «Intake Air Temp.» are within the specified range. If the conditions are satisfied, make the necessary preparation for the drive cycle again. <Ref. to EN(H4DO HEV)(diag)-55, PREPARATION FOR DRIVE CYCLE, PROCEDURE, Drive Cycle.>
- 16) After 30 minutes passed from the start of step 14), click the [OK] button to return to the «Evaporative System Leak Test» display.
- 17) Click buttons until the «OBD Menu» display appears, then select {Result of on-board monitor test}.

# Drive Cycle

## ENGINE (DIAGNOSTICS)

18) In the {Result of on-board monitor test}, check TID \$C1 — \$CA of MID \$3C.

### NOTE:

Perform MODE \$06 and check when using a general scan tool.

### Result of on-board monitor test

Display	Details	Remarks
\$0000 is stored in all Val.	During the evaporative system leak test, the test conditions were not met and the test was canceled.	Once the test conditions are met, perform the test again.
All Val. are stored with values and OK is set to all the results.	Evaporative system leak test is completed correctly.	While the ignition switch is ON, read the pending code using the Subaru Select Monitor.
Some results were no good.	The evaporative system leak test completed successfully but the results were faulty.	While the ignition switch is ON, read the pending code using the Subaru Select Monitor.

19) When the evaporative system leak test is completed correctly, read the pending code with the ignition switch turned to ON position. If the DTC is recorded, check the appropriate DTC. <Ref. to EN(H4DO HEV)(diag)-51, OPERATION, Read Diagnostic Trouble Code (DTC).>

### NOTE:

- Perform MODE \$07 when using a general scan tool.
- The pending code will be cleared by turning ignition switch to OFF.

## 9. DRIVE CYCLE J

DTC	Item	Condition
P2610	ECM/PCM Internal Engine Off Timer Performance	—

### Diagnostic procedure:

- 1) Idle the engine for 15 minutes or more.
- 2) Turn the ignition switch to OFF.
- 3) After 10 hours passed from the start of step 2), read the temporary code using the Subaru Select Monitor or general scan tool. <Ref. to EN(H4DO HEV)(diag)-51, OPERATION, Read Diagnostic Trouble Code (DTC).>

## 10. DRIVE CYCLE N

DTC	Item	Condition
P0016	Crankshaft Position - Camshaft Position Correlation (Bank1)	
P0017	Crank and Cam Timing B System Failure (Bank 1)	
P0018	Crankshaft Position - Camshaft Position Correlation (Bank2)	«Coolant Temp.»: 80°C (176°F) or more
P0019	Crank and Cam Timing B System Failure (Bank 2)	

### WARNING:

**When performing drive cycle N on the road, pay great attention to traffic conditions and place top priority on safety drive.**

- 1) Using Subaru Select Monitor or general scan tool, confirm the data in the condition field of the table.

### NOTE:

- Subaru Select Monitor

For detailed operation procedures, refer to "Current Data Display For Engine". <Ref. to EN(H4DO HEV)(diag)-36, DISPLAY CURRENT ENGINE DATA, OPERATION, Subaru Select Monitor.>

- General scan tool

For detailed operation procedures, refer to the general scan tool operation manual.

## Drive Cycle

### ENGINE (DIAGNOSTICS)

- 2) Race up the engine at approx. 2500 rpm of engine speed for 40 seconds or more from a status where the conditions in the table are established.
- 3) Start the vehicle and accelerate up to 50 km/h (31.1 MPH) or more.
- 4) When the speed reaches 50 km/h (31.1 MPH) or more, release the accelerator pedal and brake pedal and decelerate without shifting operation. At this time, select an appropriate gear in advance so that the engine speed keeps between 2500 rpm and 1900 rpm for 5 seconds or more.

**NOTE:**

- As long as the engine speed keeps between 2500 rpm and 1900 rpm for 5 seconds or more, it does not matter how much speed the vehicle runs.

Example) On downhill, this could be performed at low vehicle speed and in lower gear.

- To keep continuous time longer, turn electrical load (A/C, etc.) to OFF or drive on downhill because the engine speed decreases more slowly.

- 5) Stop the vehicle at a safe place and let it idle for 5 minutes or more.

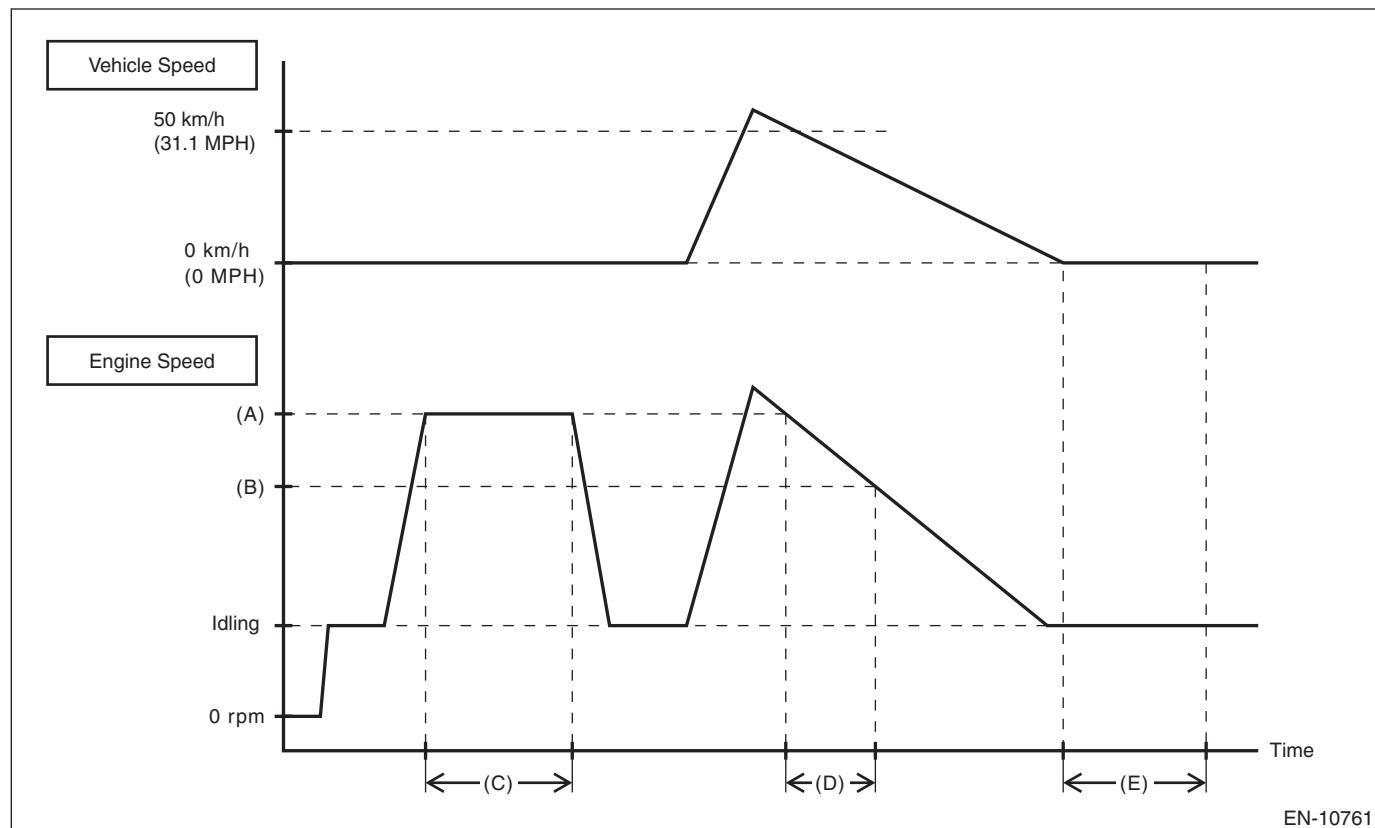
**NOTE:**

There is no special rule for driving operation until the vehicle is stopped at a safe place.

- 6) Read temporary DTC codes using Subaru Select Monitor or general scan tool at idling.

**NOTE:**

- Refer to "Read Diagnostic Trouble Code (DTC)" for detailed operation procedure. <Ref. to EN(H4DO HEV)(diag)-51, Read Diagnostic Trouble Code (DTC).>
- In step 6), if no DTC is shown on the screen of Subaru Select Monitor or general scan tool, the trouble has been solved.



(A) 2500 rpm

(D) 5 seconds or more

(B) 1900 rpm

(E) 5 minutes or more

(C) 40 seconds or more