

### 10. Drive Cycle

#### A: PROCEDURE

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 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 CVT(diag)-24, Clear Memory Mode.>

#### NOTE:

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

#### 2. DRIVE CYCLE A

DTC	Item	Condition
P0601	Internal Control Module Memory Checksum Error	Perform the drive cycle A twice.
P0604	Internal Control Module Random Access Memory (RAM) Error	Perform the drive cycle A twice.
P062F	Internal Control Module EEPROM Error	Perform the drive cycle A twice.
P0712	Transmission Fluid Temperature Sensor Circuit Low Input	—
P0842	Secondary Oil Pressure Sensor Circuit (Low)	—
P0843	Secondary Oil Pressure Sensor Circuit (High)	—
P0890	AT Self-Shut Relay Diagnosis (Low)	—
P0962	Secondary Solenoid Circuit (Low)	—
P0963	Secondary Solenoid Circuit (High)	—
P0966	Forward & Reverse Solenoid Circuit (Low)	—
P0967	Forward & Reverse Linear Solenoid Circuit (High)	—
P160A	Random Access Memory (RAM) Error	Perform the drive cycle A twice.
P2530	Ignition Switch Run Position Circuit	—
P2763	Lock-Up Duty Solenoid Circuit (High)	Perform the drive cycle A, then perform the drive cycle C.

#### Diagnostic procedure:

- 1) Start the engine.
- 2) Depress the brake pedal and move the select lever to each range at an interval of five seconds.

#### NOTE:

Move the select lever in the following order: “P” → “R” → “N” → “D” → “N” → “R” → “P”.

#### 3. DRIVE CYCLE B

DTC	Item	Condition
P0711	ATF Temp. Sensor Circuit Range/Performance	—

#### Diagnostic procedure:

- 1) Start the engine under condition that ATF temperature is at 20°C (68°F) or below.
- 2) Drive in any driving pattern for 20 minutes. (Include driving at a constant legal speed (for 20 seconds) at least once.)

#### NOTE:

Repeat two or more driving cycles in this driving pattern.

## Drive Cycle

### CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

#### 4. DRIVE CYCLE C

DTC	Item	Condition
P0500	Vehicle Speed Sensor "A"	—
P0716	Torque Converter Turbine Speed	—
P0717	Input/Turbine Speed Sensor "A" Circuit No Signal	—
P0720	Output Speed Sensor Circuit	—
P0721	Output Shaft Speed Sensor Circuit Range/Performance	—
P0970	Transfer Solenoid Circuit (Low)	—
P0971	Transfer Solenoid Circuit (High)	—
P0973	Primary Solenoid System A Circuit (Low)	—
P0974	Primary Solenoid System A Circuit (High)	—
P0976	Primary Solenoid System B Circuit (Low)	—
P0977	Primary Solenoid System B Circuit (High)	—
P2158	Vehicle Speed Sensor "B"	—
P2746	Primary Pulley Revolution Speed Sensor Circuit	—
P2747	Intermediate Shaft Speed Sensor "B" Circuit No Signal	—
P2750	Sec. Pulley Revolution Speed Sensor Circuit	—
P2751	Intermediate Shaft Speed Sensor "C" Circuit No Signal	—
P2763	Lock-Up Duty Solenoid Circuit (High)	Perform the drive cycle A, then perform the drive cycle C.
P2764	Lock-Up Duty Solenoid Circuit (Low)	—
P2769	Lock-Up On/Off Solenoid Circuit (Low)	—
P2770	Lock-Up On/Off Solenoid Circuit (High)	—

#### Diagnostic procedure:

- 1) Start the engine.
- 2) Accelerate slowly to a legal speed, and then decelerate slowly to a stop.

#### 5. DRIVE CYCLE D

DTC	Item	Condition
P0713	Transmission Fluid Temperature Sensor Circuit High Input	—
P0730	Gearshift Control Performance Abnormal	—
P0746	Pressure Control Solenoid "A" Performance/Stuck Off	Perform the drive cycle D twice.
P0747	Pressure Control Solenoid "A" Stuck On	Perform the drive cycle D twice.
P0751	Shift Solenoid "A" Performance/Stuck Off	Perform the drive cycle D twice.
P0752	Shift Solenoid "A" Stuck On	Perform the drive cycle D twice.
P0756	Shift Solenoid "B" Performance/Stuck Off	Perform the drive cycle D twice.
P0757	Shift Solenoid "B" Stuck On	Perform the drive cycle D twice.
P0776	Pressure Control Solenoid "B" Performance/Stuck Off	Perform the drive cycle D twice.
P0841	Secondary Oil Pressure Sensor Performance	—
P0961	Pressure Control Solenoid "A" Control Circuit Range/Performance	—
P0965	Forward & Reverse Solenoid Function	—
P2757	Torque Converter Clutch Pressure Control Solenoid Control Circuit Performance/Stuck Off	Perform the drive cycle D twice.
P2758	Torque Converter Clutch Pressure Control Solenoid Control Circuit Stuck On	Perform the drive cycle D twice.

#### Diagnostic procedure:

- 1) Start the engine.
- 2) Drive in any driving pattern for 20 minutes. (Include driving at a constant legal speed (for 20 seconds) at least once.)

## Drive Cycle

### CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

#### 6. DRIVE CYCLE E

DTC	Item	Condition
P0801	Reverse Inhibit Control Circuit	—
U0073	Control Module Communication Bus Off	—
U0100	Lost Communication With ECM/PCM “A”	—
U0122	Lost Communication With Vehicle Dynamics Control Module	—
U0140	Lost Communication With Body Control Module	—
U0155	Lost Communication With Instrument Panel Cluster (IPC) Control Module	—
U0164	Lost Communication With HVAC Control Module	—
U0401	Invalid Data Received From ECM/PCM “A”	—
U0416	Invalid Data Received From Vehicle Dynamics Control Module	—
U0422	Invalid Data Received From Body Control Module	—
U0423	Invalid Data Received From Instrument Panel Cluster Control Module	—
U0424	Invalid Data Received From HVAC Control Module	—

#### Diagnostic procedure:

- 1) Start the engine.

#### 7. DRIVE CYCLE F

DTC	Item	Condition
P0705	Transmission Range Sensor Circuit (PRNDL Input)	—

#### Diagnostic procedure:

- 1) Start the engine.
- 2) Depress the brake pedal and move the select lever to each range at an interval of five seconds.

#### NOTE:

Move the select lever in the following order: “P” → “R” → “N” → “D”.

- 3) Maintain the engine speed to 2,000 rpm for five seconds or more.

#### 8. DRIVE CYCLE G

DTC	Item	Condition
P0708	AT Range Switch Not Inputted	—

#### Diagnostic procedure:

- 1) Start the engine.
- 2) Drive for three seconds at 16 km/h (10 MPH).

#### NOTE:

Drive in “D” range and “R” range.

## Drive Cycle

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

### 9. DRIVE CYCLE H

DTC	Item	Condition
P0719	Brake Switch Circuit Low	—
P0724	Brake Switch Circuit High	—
P0951	Manual Switch	—
P170A	L-Range SW System	—

#### Diagnostic procedure:

- 1) Start the engine.
- 2) Operate the stop light switch or the manual mode switch.

#### NOTE:

Drive in “D” range and “R” range.

- 3) Read the data of the stop light switch or the manual mode switch using the Subaru Select Monitor. Or measure the terminal voltage.