

## 6. Subaru Select Monitor

### A: OPERATION

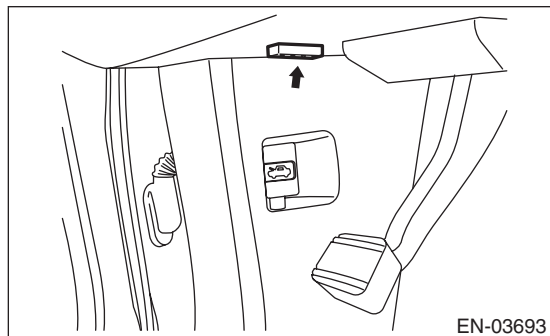
#### 1. READ DIAGNOSTIC TROUBLE CODE (DTC)

- 1) Prepare the Subaru Select Monitor kit. <Ref. to 5AT(diag)-6, PREPARATION TOOL, General Description.>
- 2) Prepare PC with Subaru Select Monitor installed.
- 3) Connect the USB cable to the SDI (Subaru Diagnostic Interface) and the USB port of the personal computer (port for 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 the SDI to the data link connector located in the lower portion of the instrument panel (on the driver's side).



#### CAUTION:

**Do not connect scan tools other than the Subaru Select Monitor.**

- 6) Start the PC.
- 7) Turn the ignition switch to ON (engine OFF).
- 8) Run the "PC application for Subaru Select Monitor".
- 9) On the «Main Menu» display screen, select the {Each System Check}.
- 10) On the «System Selection Menu», select {Transmission Control System}.
- 11) After transmission type information pops up, select [OK].
- 12) On the «Transmission Diagnosis» display screen, select {Diagnostic Code(s) Display}.
- 13) On the «Diagnostic Code(s) Display» screen, select the {Temporary Diagnostic Code(s)} or {Memorized Diagnostic Code(s)}

#### 2. READ CURRENT DATA

- 1) On «Main Menu» display, select {Each System Check}.
  - 2) On «System Selection Menu» display, select {Transmission Control System}.
  - 3) After transmission type information pops up, select [OK].
  - 4) On «Transmission Diagnosis» display, select {Current Data Display & Save}.
  - 5) On «Current Data Display & Save» display, select {Normal sampling}.
  - 6) Using the scroll key, scroll the display screen up or down until the desired data is shown.
- A list of the support data is shown in the following table.

Item	Display	Unit of measure
Engine speed signal	Engine Speed	rpm
Battery voltage	Battery Voltage	V
Accelerator position sensor	Accel. Opening Angle	%
Front vehicle speed sensor signal	Front Wheel Speed	km/h
Gear position	Gear Position	—
Turbine speed sensor signal	Turbine Revolution Speed	rpm

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## AUTOMATIC TRANSMISSION (DIAGNOSTICS)

Item	Display	Unit of measure
Rear vehicle speed sensor signal	Rear Wheel Speed	km/h
G sensor	Lateral G Sensor	V
ATF temperature sensor signal	ATF Temp.	°C
Turbine speed sensor 1 signal	AT Turbine Speed 1	rpm
Turbine speed sensor 2 signal	AT Turbine Speed 2	rpm
High & low reverse clutch solenoid set current	H&LR/C Solenoid Current	A
Direct clutch solenoid set current	D/C Solenoid Current	A
Front brake solenoid set current	F/B Solenoid Current	A
Input clutch solenoid set current	I/C Solenoid Current	A
Line pressure solenoid set current	P/L Solenoid Current	A
Lock-up solenoid set current	L/U Solenoid Current	A
Transfer solenoid set current	AWD Sol. Current	A
High & low reverse clutch solenoid pressure	H&LR/C Solenoid Pressure	kPa
Direct clutch solenoid pressure	D/C Solenoid Pressure	kPa
Front brake solenoid pressure	F/B Solenoid Pressure	kPa
Input clutch solenoid pressure	I/C Solenoid Pressure	kPa
Line pressure solenoid pressure	P/L Solenoid Pressure	kPa
Lock-up solenoid pressure	L/U Solenoid Pressure	kPa
Transfer solenoid pressure	AWD Solenoid Pressure	kPa
Forward brake set current	Fwd/B solenoid current	A
Forward brake solenoid pressure	Fwd/B solenoid target pressure	kPa
Ignition switch	Ignition Switch	ON input or OFF input
Manual mode switch signal	Tiptronic Mode Switch	ON or OFF
Cruise control set signal	Cruise Control Signal	ON or OFF
Down shift signal	Down Switch	ON or OFF
Stop light switch signal	Stop Light Switch	ON or OFF
Up shift signal	Up Switch	ON or OFF
Drive range signal	D Range Signal	ON or OFF
Reverse range signal	R Range Signal	ON or OFF
Diagnosis light output signal	Diagnosis Lamp	ON or OFF
ATF temperature light signal	ATF Temperature Lamp	ON or OFF
Parking range signal	P Range	ON or OFF
P/N range output signal	P/N Signal	ON or OFF
Neutral range signal	N Range	ON or OFF
Inhibitor switch 1 input signal	Inhibitor SW 1	High or Low
Inhibitor switch 2 input signal	Inhibitor SW 2	High or Low
Inhibitor switch 3 input signal	Inhibitor SW 3	High or Low
Inhibitor switch 4 input signal	Inhibitor SW 4	High or Low
Back-up light relay output signal	Back Lamp Relay	ON or OFF
High & low reverse clutch fluid pressure switch input signal	H&LR/C Fluid Pressure	ON or OFF
Direct clutch fluid pressure switch input signal	D/C Fluid Pressure	ON or OFF
Front brake fluid pressure switch input signal	F/B Fluid Pressure	ON or OFF
Input clutch fluid pressure switch input signal	I/C Fluid Pressure	ON or OFF
Forward brake fluid pressure switch input signal	Fwd/B hydraulic pressure SW	ON or OFF
AT learning mode	AT learning	Completed or not completed

### NOTE:

For details concerning the operation procedure, refer to “PC application help for Subaru Select Monitor”.

### 3. CLEAR MEMORY MODE

- 1) Shift the select lever to “P” range.
- 2) On the «Main Menu» display screen, select the {Each System Check}.
- 3) On the «System Selection Menu», select {Transmission Control System}.
- 4) After transmission type information pops up, select [OK].
- 5) On the «Transmission Diagnosis» display screen, select {Clear Memory}.
- 6) When “Done. Turn ignition switch to OFF” pops up, select [OK].
- 7) Turn the Subaru Select Monitor and ignition switch to OFF. To turn the ignition switch to ON again, wait for more than 10 seconds.

#### NOTE:

- To clear the previous DTC, use {Clear Memory}, and to clear the learned value, use {Clear Memories 2}.
- For details concerning the operation procedure, refer to the “PC application help for Subaru Select Monitor”.