

Subaru Select Monitor

AUTOMATIC TRANSMISSION (DIAGNOSTICS)

6. Subaru Select Monitor

A: OPERATION

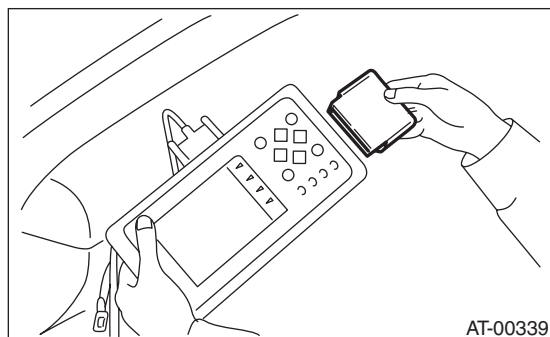
1. READ DIAGNOSTIC TROUBLE CODE (DTC)

1) Prepare the Subaru Select Monitor kit.



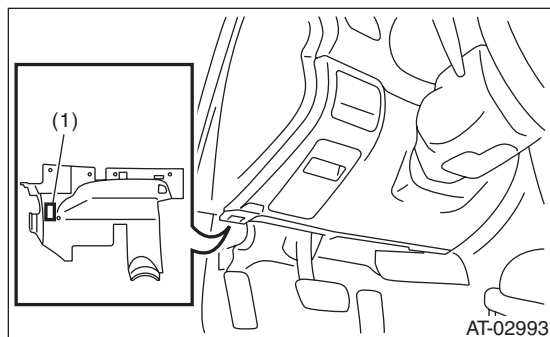
2) Connect the diagnosis cable to Subaru Select Monitor.

3) Insert the cartridge to Subaru Select Monitor.
<Ref. to 5AT(diag)-6, PREPARATION TOOL, General Description.>



4) Connect the Subaru Select Monitor to data link connector.

(1) Data link connector is located in the lower portion of instrument panel (on the driver's side).

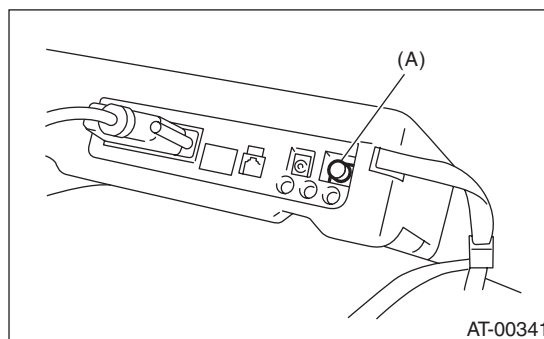


(2) Connect the diagnosis cable to data link connector.

NOTE:

Do not connect scan tools except for Subaru Select Monitor.

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



(A) Power switch

6) On the «Main Menu» display screen, select the {Each System Check} and press the [YES] key.

7) On the «System Selection Menu» display screen, select the {Transmission} and press the [YES] key.

8) Press the [YES] key after the information of transmission type is displayed.

9) On the «Transmission Diagnosis» screen, select {DTC Display}, and then press the [YES] key.

NOTE:

- For details concerning operation procedures, refer to the "SUBARU SELECT MONITOR OPERATION MANUAL".

- For details concerning the diagnostic trouble codes (DTC), refer to the List of DTC. <Ref. to 5AT(diag)-29, List of Diagnostic Trouble Code (DTC).>

2. READ CURRENT DATA

1) On the «Main Menu» display screen, select the {Each System Check} and press the [YES] key.

2) On the «System Selection Menu» display screen, select the {Transmission Control System} and press the [YES] key.

3) Press the [YES] key after the information of transmission type is displayed.

4) On the «Transmission Diagnosis» display screen, select the {Current Data Display & Save} and press the [YES] key.

5) On the «Transmission Diagnosis» display screen, select the {Data Display} and press the [YES] key.

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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	Acceleration Opening Angle	%
Front vehicle speed sensor signal	Front Wheel Speed	km/h
Gear position	Gear Position	—
Turbine speed sensor signal	Turbine Revolution Speed	rpm
Rear vehicle speed sensor signal	Rear Wheel Speed	km/h
Lateral G sensor	Lateral G Sensor	V
ATF temperature sensor 1 signal	ATF Temp.	°C
ATF temperature sensor 2 signal	ATF Temp. 2	°C
Turbine speed sensor 1 signal	Turbine Revolution Speed 1	rpm
Turbine speed sensor 2 signal	Turbine Revolution Speed 2	rpm
High & low reverse clutch solenoid indicator current	H&LR/C Solenoid Current	A
Direct clutch solenoid indicator current	D/C Solenoid Current	A
Front brake solenoid indicator current	F/B Solenoid Current	A
Input clutch solenoid indicator current	I/C Solenoid Current	A
Line pressure solenoid indicator current	P/L Solenoid Current	A
Lock-up solenoid indicator current	L/U Solenoid Current	A
Transfer solenoid indicator current	AWD Solenoid Current	A
High & low reverse clutch solenoid target oil pressure	H&LR/C Solenoid Target Pressure	kPa
Direct clutch solenoid target oil pressure	D/C Solenoid Target Pressure	kPa
Front brake solenoid target oil pressure	F/B Solenoid Target Pressure	kPa
Input clutch solenoid target oil pressure	I/C Solenoid Target Pressure	kPa
Line pressure solenoid target oil pressure	P/L Solenoid Target Pressure	kPa
Lock-up solenoid target oil pressure	L/U Solenoid Target Pressure	kPa
Transfer solenoid target oil pressure	AWD Solenoid Target Pressure	kPa
Ignition switch	Ignition Switch	ON Input or OFF Input
Tip signal	Tiptronic Mode Switch	ON or OFF
Cruise control ON signal	Cruise Control Signal	ON or OFF
Tip down shift signal	Down SW	ON or OFF
Stop light switch signal	Stop Light SW	ON or OFF
Tip up shift signal	Up SW	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 Light	ON or OFF
ATF temperature light signal	ATF Temperature Light	ON or OFF
Shift lock solenoid signal	Shift Lock Solenoid	ON or OFF
Parking range signal	P Range Signal	ON or OFF
P/N range output signal	P/N Signal	ON or OFF
Neutral range signal	N Range Signal	ON or OFF
Inhibitor switch 1 input signal	Inhibitor SW1	High or Low
Inhibitor switch 2 input signal	Inhibitor SW2	High or Low
Inhibitor switch 3 input signal	Inhibitor SW3	High or Low
Inhibitor switch 4 input signal	Inhibitor SW4	High or Low
Inhibitor switch 3 monitor input signal	Inhibitor SW3 Monitor	High or Low
Backup light relay output signal	Back-up light relay	ON or OFF
High & low reverse clutch oil pressure switch input signal	H&LR/C Oil Pressure SW	ON or OFF
Direct clutch oil pressure switch input signal	D/C Oil Pressure SW	ON or OFF
Front brake oil pressure switch input signal	Fr/B Oil Pressure SW	ON or OFF

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Item	Display	Unit of measure
Input clutch oil pressure switch input signal	I/C Oil Pressure SW	ON or OFF
Low coast brake oil pressure switch input signal	LC/B Oil Pressure SW	ON or OFF
Low coast brake solenoid input signal	LC B Solenoid	ON or OFF

NOTE:

For details concerning the operation procedure, refer to the "SUBARU SELECT MONITOR OPERATION MANUAL".

3. CLEAR MEMORY MODE

NOTE:

To clear the previous DTC, use {Clear Memory}, and to clear the learned value, use {Clear Memory 2}.

- 1) Check that the select lever is in "P" range.
- 2) On the «Main Menu» display screen, select the {Each System Check} and press the [YES] key.
- 3) On the «System Selection Menu» display screen, select the {Transmission Control System} and press the [YES] key.
- 4) Press the [YES] key after the information of transmission type is displayed.
- 5) On the «Transmission Diagnosis» display screen, select the {Clear Memory} and press the [YES] key.

NOTE:

If {Clear Memory 2} is selected and performed, DTC are not cleared.

- 6) When 'Done' is shown on the display screen, turn off the Subaru Select Monitor and turn the ignition switch to OFF. To turn the ignition switch to ON again, wait for more than 10 seconds.

NOTE:

For details concerning the operation procedure, refer to the "SUBARU SELECT MONITOR OPERATION MANUAL".