

11. Learning Control

A: GENERAL DESCRIPTION

- Follow the messages displayed on the Subaru Select Monitor when working.
- When the following work is performed, perform learning work for the transmission.

Replacement of TCM/Replacement or disassembly of transmission assembly/Replacement of control valve body/Performing "Clear Memories 2" is executed.

B: PROCEDURE

1. PREPARATION FOR LEARNING

- 1) Warm up or cool down until the ATF temperature displayed on the Subaru Select Monitor is 60 — 80°C (140 — 176°F).
- 2) Shift the select lever to "P" range.
- 3) Fully apply the parking brake.
- 4) Lift up the vehicle.

CAUTION:

While working, be sure to keep the lower edge of the tires 30 cm or more above the ground as vehicle will vibrate.

- 5) Connect the Subaru Select Monitor to data link connector.
- 6) Turn the ignition switch to ON. (For model with push button start, press the push button ignition switch twice without depressing brake pedal.)
- 7) Turn off all switches causing an electrical load, such as headlights, A/C, seat heater and rear defogger, etc.
- 8) On vehicles equipped with an ECO switch, turn the ECO switch to ON. On vehicles equipped with an SPORT mode, turn the SPORT mode to OFF. On vehicles equipped with an POWER/HOLD switch, turn the POWER/HOLD switch to OFF. On vehicles equipped with SI-DRIVE, set to I mode.

NOTE:

Error message is not displayed even when an incorrect mode is set. While the operation is continued, "AT learning promoting" is displayed, but it cannot end normally. If the message does not change after 2 minutes have passed, retry "AT learning mode" from the beginning.

2. SIMPLE LEARNING

NOTE:

Simple learning is performed with the vehicle lifted, without actually running the vehicle.

CAUTION:

Do not turn the power of the Subaru Select Monitor OFF during work, and do not disconnect the data link connector.

- 1) Select {AT related learning & inspecting mode} in the «Transmission Diagnosis» display screen of the Subaru Select Monitor.
- 2) Select {AT learning mode} in the «AT related learning & inspecting mode» screen of the Subaru Select Monitor.
- 3) Follow the messages displayed on the Subaru Select Monitor screen when working.

NOTE:

During AT learning in progress, SPORT indicator light in the combination meter starts flashing at 2 Hz and the learning operation starts. The following message is displayed on the screen when the SPORT indicator light turns off.

- 4) When "AT learning normally ended." is displayed, simple AT learning is completed.

NOTE:

- If communication error occurs during learning, retry the “AT learning mode” from the beginning.
- If the message “Execute AT learning again after fixing troubles of the vehicle” is displayed during learning, select [OK] to display the List of Diagnostics Trouble Code. After repairing the locations indicated by the DTC, start the “AT learning mode” over from the beginning.
- When communication error occurs during learning, select lever does not shift occasionally. If select lever does not shift, turn the ignition switch to OFF before operating the select lever.
- If the message “AT learning ended abnormally” is displayed, start the “AT learning mode” over from the beginning.

Message	Main reasons for abnormal termination
AT learning ended abnormally.	<ul style="list-style-type: none">• Fault is detected during AT learning.• The accelerator pedal is depressed during AT learning.• Operation which is not directed is performed during AT learning.• Brake pedal not stepped on firmly enough.• Parking brake not applied strongly enough.• Abnormal idle speed increase, etc.

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