

10. 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/Clearing AT leaning value 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 40 — 65°C (104 — 149°F).
- 2) After stopping the vehicle, 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.
- 7) Turn off all switches causing an electrical load, such as headlights, A/C, seat heater and rear defogger, etc.
- 8) Set SI-DRIVE to I mode. (Vehicles with SI drive)

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 {Work Support} in the «Transmission Diagnosis» display screen of the Subaru Select Monitor.
- 2) Select {Compulsory learning mode} in the «Work Support» display 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, AT OIL TEMP 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 AT OIL TEMP light which was flashing at 2 Hz turns off.

Learning Control

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

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» appears during learning, select [OK] and display the DTC list. 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 causes for abnormal termination
«AT learning ended abnormally.»	• Fault is detected during AT learning. • The accelerator pedal is depressed during AT learning. • An unspecified operation was performed during AT learning • ATF temperature becomes out of specification during AT learning. • Battery voltage is low. • Malfunction indicator light illuminates. • Parking brake not applied strongly enough. • Brake pedal is not fully depressed. • Abnormal idle speed increase, etc.

- For detailed operation procedures, refer to “PC application help for Subaru Select Monitor”.