

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/Performing "Clear Memories 2" is executed.

B: PROCEDURE

1. PREPARATION FOR LEARNING

- 1) Warm up or cool down the vehicle 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.

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:

For the messages "SHIFT control system learning in progress" and "AWD control system learning in progress", AT OIL TEMP light in the combination meter blinks at a cycle of 2 Hz before learning operation starts. When AT OIL TEMP light in the combination meter goes off, the following message is displayed on the screen. When operation ends abnormally during the learning, AT OIL TEMP light blinks at a cycle of 4 Hz.

Learning Control

AUTOMATIC 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» 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.
- 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.»	• Fault is detected during AT learning. • The accelerator pedal is depressed during AT learning. • An unspecified operation was performed during AT learning • Brake pedal is not fully depressed. • Parking brake not applied strongly enough. • Abnormal idle speed increase, etc.

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

3. DRIVING CHECK

Drive the vehicle to check that there is no malfunction such as shifting shock.

When shifting shock is felt, perform learning again.

When reducing of shifting shock is not felt, check that other parts are normal.