

# 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 for the transmission.

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

## 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.

### 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, 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.

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## 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, 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.»	<ul style="list-style-type: none"><li>• Fault is detected during AT learning.</li><li>• The accelerator pedal is depressed during AT learning.</li><li>• An unspecified operation was performed during AT learning</li><li>• ATF temperature becomes out of specification during AT learning.</li><li>• Battery voltage is low.</li><li>• Malfunction indicator light illuminates.</li><li>• Parking brake not applied strongly enough.</li><li>• Brake pedal is not fully depressed.</li><li>• Abnormal idle speed increase, etc.</li></ul>

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