

## 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 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 CONTROL

- 1) Warm-up or cool down until the ATF temperature displayed on the Subaru Select Monitor reaches 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:

**Be sure to keep the lowest edge of the tires 30 cm or more off the ground because the vehicle vibrates during the work.**

- 5) Connect the Subaru Select Monitor to the data link connector.
- 6) Turn the ignition switch to ON. (Press push button ignition switch twice without depressing brake pedal for push button start.)
- 7) Select {Learning and inspection mode related to AT} on the «Transmission Diagnosis» display screen of Subaru Select Monitor.
- 8) Select {AT learning mode} on the «Learning and inspection mode related to AT» display screen of Subaru Select Monitor.
- 9) Perform the procedures according to the message displayed on the Subaru Select Monitor.

#### 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) Follow the messages displayed on the Subaru Select Monitor screen when working.

#### NOTE:

During "SHIFT control system learning in progress" and "AWD control system learning in progress", AT OIL TEMP light in the combination meter starts blinking at 2 Hz and the learning operation starts. The following message is displayed on the screen when the AT OIL TEMP light in the combination meter goes off. When the learning ended abnormally, AT OIL TEMP light blinks at 4 Hz.

# Learning Control

## AUTOMATIC TRANSMISSION (DIAGNOSTICS)

2) "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.	<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>• Operation which is not directed is performed during AT learning.</li><li>• Brake pedal not stepped on firmly enough.</li><li>• Parking brake not applied strongly enough.</li><li>• Abnormal idle speed increase, etc.</li></ul>

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

### 3. DRIVING CHECK

Drive actually and check for shifting shock or faults.

If shifting shock is felt, perform the learning operation again.

If reducing of shifting shock is not felt, recheck that other parts are normal.