

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 learning 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:

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.

2) AT simple learning is complete when the message “AT learning normally ended” is displayed.

NOTE:

- If a communication error occurs during learning, restart the «AT learning mode» over 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.
- If the message “AT learning ended abnormally” is displayed, start the “AT learning mode” over from the beginning.

Message	Main cause of abnormal incomplection
“AT learning ended abnormally”	<ul style="list-style-type: none">• A malfunction was detected during AT learning• The accelerator pedal was pressed during AT learning• An unspecified operation was 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 the “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.