

10. Learning Control

A: GENERAL DESCRIPTION

- After performing the following services, perform the transmission learning operation.
Replacement of TCM/Replacement or disassembly of transmission assembly/Replacement of control valve body/Performing "Clear Memories 2".
- Perform the procedures according to the message displayed on the Subaru Select Monitor.

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:

The simple learning is performed with the vehicle lifted up, not by driving actually.

CAUTION:

Do not turn the power of the Subaru Select Monitor to OFF or disconnect the data link connector during the operation.

- 1) Perform the procedures according to the message displayed on the Subaru Select Monitor.

NOTE:

During "SHIFT control system learning in progress" and "AWD control system 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 turns off. If operation ended abnormally during learning, AT OIL TEMP light flashes at 4 Hz.

2) "AT learning normally ended." is displayed, simple AT learning is completed.

NOTE:

- If communication error occurs during learning, retry "AT learning mode" from the beginning.
- If "Execute AT learning again after fixing troubles of the vehicle" is displayed during learning, select [OK] to display the List of Diagnostics Trouble Code. Retry "AT learning mode" from the beginning after repairing the DTC detecting portion.
- If "AT learning ended abnormally." is displayed, retry "AT learning mode" from the beginning.

Message	Primary cause of abnormal end
"AT learning ended abnormally."	<ul style="list-style-type: none">• Fault is detected during AT learning.• The accelerator pedal is depressed during AT learning.• Operation which is not directed is performed during AT learning.• The brake pedal is not depressed fully.• The parking brake is not applied fully.• Abnormal idle rise occurs. Other similar causes are probable.

- 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.