

Learning Control

AUTOMATIC TRANSMISSION (DIAGNOSTICS)

10. Learning Control

A: GENERAL DESCRIPTION

Be sure to perform the {Clear Memory 2} only when the following services have been performed. And when the shifting shock is occurred during the total check with vehicle driving, perform the learning with following procedures. <Ref. to 5AT(diag)-18, CLEAR MEMORY MODE, OPERATION, Subaru Select Monitor.>

- Replacement of TCM
- Replacement of transmission assembly
- Simultaneous replacement of TCM and transmission assembly
- Replacement of clutches
- Replacement of control valve body

CAUTION:

When {Clear Memory 2} is executed, DTC may not be cleared.

B: PROCEDURE

- 1) Turn the ignition switch to ON.
- 2) Turn the A/C switch to OFF.
- 3) Turn the headlight switch to OFF.
- 4) Turn the rear defogger switch to OFF.
- 5) Start the engine.
- 6) Connect the Subaru Select Monitor to the vehicle.
- 7) Drive the vehicle for 5 — 10 km (3 — 6 mile) to warm up ATF temperature more than 70 °C (158 °F).
- 8) While checking that the throttle opening angle on Subaru Select Monitor is within the specified range, shift the gear from 1st → 2nd, 2nd → 3rd, and 3rd → 4th, while driving the vehicle at “D” range. <Ref. to 5AT(diag)-16, READ CURRENT DATA, OPERATION, Subaru Select Monitor.>

Acceleration opening angle:

Turbo model:

10%±2%

Non-turbo model:

12.5%±2%

- 9) While checking that the throttle opening angle on Subaru Select Monitor is within the specified range, upshift the gear from 4th → 5th while driving the vehicle at “D” range.

Acceleration opening angle:

Turbo model:

12.5%±2%

Non-turbo model:

15.5%±2%

- 10) Repeat the steps 8) and 9) until the reducing effect of the shifting shock is felt.
- 11) If reducing of shifting shock is not felt after 5 cycles, recheck that the learning conditions (throttle opening angle, ATF temperature, etc.) are as specified and recheck that other parts are normal.