

Transfer Clutch Pressure Test

AUTOMATIC TRANSMISSION

8. Transfer Clutch Pressure Test

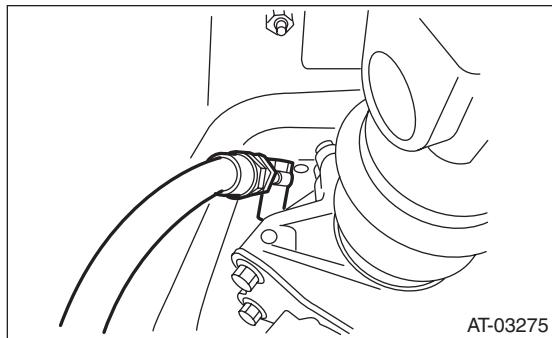
A: INSPECTION

- 1) Lift up the vehicle.
- 2) Remove the bolts holding the heat shield cover, and move the heat shield cover to the rear.
- 3) Remove the test plug and install the ST.

CAUTION:

Be careful not to cut yourself on the heat shield cover when removing the test plugs and setting the ST.

ST 498897800 OIL PRESSURE ADAPTER SET



- 4) Set the ST.

ST 498575400 OIL PRESSURE GAUGE ASSY

- 5) Lower the vehicle, and pull the ST which was set in step 4) into the vehicle.
- 6) Connect the Subaru Select Monitor to the data link connector and read the current data. <Ref. to 5AT(diag)-16, READ CURRENT DATA, OPERATION, Subaru Select Monitor.>

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7) Perform the transfer clutch pressure test.

NOTE:

- Do not perform the transfer clutch pressure test for more than 5 seconds at a time. Doing so will make the engine oil and ATF deteriorate and the clutch and brake to be adversely affected.
- After performing the transfer clutch pressure test, be sure to cool down the engine for at least one minute with the select lever set in the “P” or “N” range, and at an idle speed of 1,200 rpm or less.
- Adjust the throttle valve angle in order to obtain the “T/F Solenoid Pressure” displayed on the Subaru Select Monitor.

Range of the selector lever	Throttle opening angle	ATF temperature condition	“T/F Solenoid Pressure” displayed on the Subaru Select Monitor kPa	Standard transfer clutch pressure kPa (kg/cm ² , psi)
2nd gear of manual mode	Full open	45 — 55°C (104 — 131°F)	1,200	990 — 1,190 (10.09 — 12.13, 143.5 — 172.5)
	Partial throttle		500	400 — 600 (4.08 — 6.12, 58.0 — 87.0)
	Full closed		0	0 — 50 (0 — 0.51, 0 — 7.3)

8) Remove the ST and install the test plug.

Tightening torque:

13 N·m (1.3 kgf·m, 9.6 ft-lb)

9) Install the heat shield cover.