

Line Pressure Test

AUTOMATIC TRANSMISSION

7. Line Pressure Test

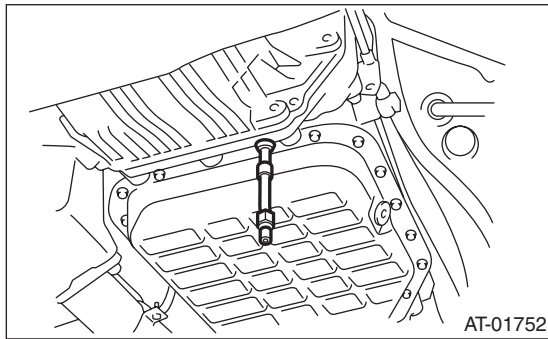
A: MEASUREMENT

NOTE:

If the clutch or brake shows a sign of slippage, or shifting interval is not correct, check the line pressure.

- Excessive shock during up-shift may be due to the line pressure being too high.
- Slippage or inability to operate the vehicle may, in most cases, be due to loss of oil pressure for the operation of clutch, brake or control valve.

- 1) Set the vehicle on a lift.
- 2) Remove the under cover.
- 3) Remove the test plug and install the ST.
ST 498897200 OIL PRESSURE ADAPTER



- 4) Set the ST1 and ST2.
ST1 498897200 OIL PRESSURE ADAPTER
ST2 498575400 OIL PRESSURE GAUGE ASSY
- 5) Lower the vehicle, and pull ST1 and ST2 into the vehicle.
ST1 498897200 OIL PRESSURE ADAPTER
ST2 498575400 OIL PRESSURE GAUGE ASSY

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.>

- (1) Start the engine.
- (2) Turn the Subaru Select Monitor power to ON.
- (3) On the «Main Menu» display screen, select the {Each System Check} and press the [YES] key.
- (4) On the «System Selection Menu» display screen, select the {Transmission} and press the [YES] key.
- (5) Press the [YES] key after the information of transmission type is displayed.
- (6) On the «Transmission Diagnosis» display screen, select the {Current Data Display & Save} and press the [YES] key.
- (7) On the «Transmission Diagnosis» display screen, select the {Data Display} and press the [YES] key.
- (8) Using the scroll key, display the «P/L solenoid target oil pressure».

7) Perform the line pressure test.

NOTE:

- Do not perform the line 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 line pressure test, be sure to cool down the engine for at least one minute with the select lever set in “P” or “N” range and with the idle speed at 1,200 rpm or less.
- Adjust the throttle valve angle in order to match the “P/L solenoid target pressure” displayed on the Subaru Select Monitor.

Range of the selector lever	Throttle valve angle	ATF temperature condition	“P/L Solenoid Target Pressure” displayed on the Subaru Select Monitor kPa	Standard line pressure kPa (kg/cm ² , psi)
D	Full closed	45 — 55°C (113 — 131°F)	490	385 — 555 (3.93 — 5.66, 55.8 — 80.5)
	Full open		1,370	1,235 — 1,475 (12.59 — 15.04, 179.1 — 213.9)
R	Full closed		1,370	1,530 — 1,925 (15.60 — 19.6, 221.9 — 279.2)