

GENERAL DESCRIPTION

AUTOMATIC TRANSMISSION (DIAGNOSTICS)

3. General Description

A: CAUTION

• Supplemental Restraint System "Airbag" Airbag system wiring harness is routed near the transmission control module (TCM).

CAUTION:

- All airbag system wiring harness and connectors are colored yellow. Do not use electrical test equipment on these circuit.
- Be careful not to damage airbag system wiring harness when performing diagnostics and servicing the TCM.

• Measurement

When measuring voltage and resistance of the ECM, TCM or each sensor, use a tapered pin with a diameter of less than 0.64 mm (0.025 in) in order to avoid poor contact. Do not insert the pin more than 0.65 mm (0.0256 in).

B: INSPECTION

1. BATTERY

Measure battery voltage and specific gravity of electrolyte.

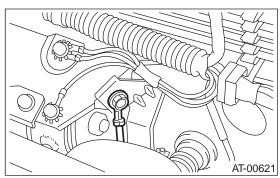
Standard voltage: 12 V or more Specific gravity: Above 1.260 2. TRANSMISSION GROUND

Make sure that the ground terminal bolt is tightened securely.

• Chassis side

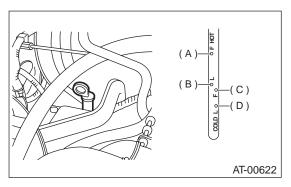
Tightening torque:

13 N·m (1.3 kgf-m, 9.4 ft-lb)



3. ATF LEVEL

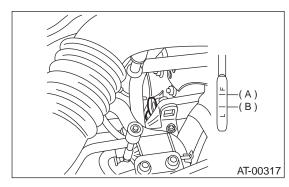
Make sure that ATF level is in the specification. <Ref. to AT-30, INSPECTION, Automatic Transmission Fluid.>



- (A) Upper level (hot)
- (B) Lower level (hot)
- (C) Upper level (cold)
- (D) Lower level (cold)

4. FRONT DIFFERENTIAL OIL LEVEL

Make sure that front differential oil level is in the specification. <Ref. to AT-31, INSPECTION, Differential Gear Oil.>



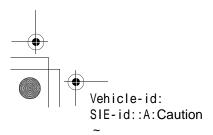
- (A) Upper level
- (B) Lower level

5. OPERATION OF SHIFT SELECT LEVER

Make sure there is no abnormal noise, dragging or contact pattern in each select lever range.

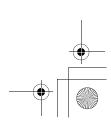
WARNING:

Stop the engine while checking operation of select lever.

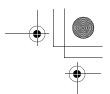






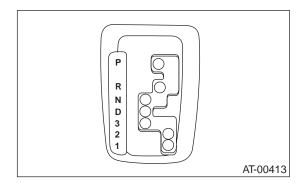




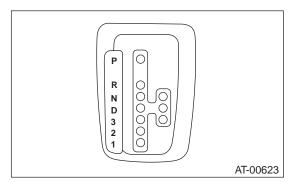


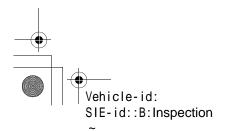
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• Without SPORT shift



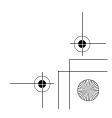
• With SPORT shift



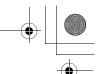














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AUTOMATIC TRANSMISSION (DIAGNOSTICS)

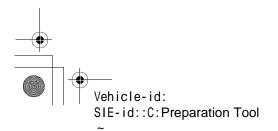
C: PREPARATION TOOL

1. SPECIAL TOOLS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST24082AA210	24082AA210 (Newly adopted tool)	CARTRIDGE	Troubleshooting for electrical systems.
ST22771AA030	22771AA030	SELECT MONI- TOR KIT	Troubleshooting for electrical systems. • English: 22771AA030 (Without printer) • German: 22771AA070 (Without printer) • French: 22771AA080 (Without printer) • Spanish: 22771AA090 (Without printer)

2. GENERAL PURPOSE TOOLS

TOOL NAME	REMARKS	
Circuit Tester	Used for measuring resistance, voltage and ampere.	
Oscilloscope	Used for measuring sensor.	





AT-8

