

# Basic Diagnostic Procedure

## AUTOMATIC TRANSMISSION (DIAGNOSTICS)

### 1. Basic Diagnostic Procedure

#### A: PROCEDURE

	Step	Check	Yes	No
1	<b>CHECK PRE-INSPECTION.</b> 1) Ask the customer when and how the trouble occurred using the interview checklist. <Ref. to 4AT(D)(diag)-4, Check List for Interview.> 2) Before performing diagnosis, inspect the following items which may influence AT problems. <ul style="list-style-type: none"> <li>• General Inspection &lt;Ref. to 4AT(D)(diag)-5, INSPECTION, General Description.&gt;</li> <li>• Disconnection of harness connector</li> <li>• Visual check for harness damage</li> <li>• Oil leakage</li> <li>• Stall speed test &lt;Ref. to 4AT-32, Stall Test.&gt;</li> <li>• Line pressure test &lt;Ref. to 4AT-34, Line Pressure Test.&gt;</li> <li>• Transfer clutch pressure test &lt;Ref. to 4AT-36, Transfer Clutch Pressure Test.&gt;</li> <li>• Time lag test &lt;Ref. to 4AT-33, Time Lag Test.&gt;</li> <li>• Road test &lt;Ref. to 4AT-31, Road Test.&gt;</li> <li>• Inhibitor switch &lt;Ref. to 4AT-48, Inhibitor Switch.&gt;</li> </ul>	Is the unit that is thought to influence the AT problem working properly?	Go to step 2.	Repair or replace each item.
2	<b>CHECK AT OIL TEMP WARNING LIGHT.</b> Turn the ignition switch ON.	Does the AT OIL TEMP warning light illuminate?	Go to step 4.	Go to step 3.
3	<b>CHECK AT OIL TEMP WARNING LIGHT.</b> 1) Turn the ignition switch OFF. 2) Repair the AT OIL TEMP warning light circuit or power supply and ground line circuit. <Ref. to 4AT(D)(diag)-20, AT OIL TEMP Warning Light Display.> 3) Turn the ignition switch ON.	Is the AT OIL TEMP warning light flashing?	Go to step 4.	Go to step 5.
4	<b>CHECK INDICATION OF DTC.</b> Display the DTC. NOTE: If the communication function of Subaru Select Monitor cannot be executed normally, check the communication circuit. <Ref. to 4AT(D)(diag)-25, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Diagnostic Procedure for Subaru Select Monitor Communication.>	Is DTC displayed?	Go to step 6. NOTE: Record all DTC.	Go to step 5.
5	<b>PERFORM GENERAL DIAGNOSTICS.</b> 1) Inspect using "Diagnostic Procedure without Diagnostic Trouble Code (DTC)". <Ref. to 4AT(D)(diag)-87, Diagnostic Procedure without Diagnostic Trouble Code (DTC).> 2) Inspect using "General Diagnostic Table". <Ref. to 4AT(D)(diag)-90, General Diagnostic Table.> 3) Perform the Clear Memory Mode. 4) Perform the Inspection Mode. <Ref. to 4AT(D)(diag)-18, Inspection Mode.> 5) Display the DTC.	Is DTC displayed?	Go to step 6.	Finish the diagnosis.

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Step	Check	Yes	No
<b>6</b> <b>PERFORM DIAGNOSIS.</b> 1) Inspect using the "Diagnostic Procedure with Diagnostic Trouble Code (DTC)". <Ref. to 4AT(D)(diag)-31, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> NOTE: For DTC table, refer to "List of Diagnostic Trouble Code (DTC)". <Ref. to 4AT(D)(diag)-29, List of Diagnostic Trouble Codes (DTC).> 2) Repair the trouble cause. 3) Perform the Clear Memory Mode. 4) Perform the Inspection Mode. <Ref. to 4AT(D)(diag)-18, Inspection Mode.> 5) Display the DTC.	Is DTC displayed?	Inspect using the "Diagnostic Procedure with Diagnostic Trouble Code (DTC)". <Ref. to 4AT(D)(diag)-31, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Finish the diagnosis.