

# Basic Diagnostic Procedure

## AUTOMATIC TRANSMISSION (DIAGNOSTICS)

### 1. Basic Diagnostic Procedure

#### A: PROCEDURE

Step	Check	Yes	No
<b>1 CHECK PRE-INSPECTION.</b> 1) Ask the customer when and how the trouble occurred using the interview check list. <Ref. to 5AT(diag)-4, Check List for Interview.> 2) Before performing diagnosis, inspect the following item which might influence the AT problems. <ul style="list-style-type: none"> <li>• General inspection &lt;Ref. to 5AT(diag)-5, INSPECTION, General Description.&gt;</li> <li>• Oil leaks</li> <li>• Stall speed test &lt;Ref. to 5AT-33, Stall Test.&gt;</li> <li>• Line pressure test &lt;Ref. to 5AT-36, Line Pressure Test.&gt;</li> <li>• Transfer clutch pressure test &lt;Ref. to 5AT-38, Transfer Clutch Pressure Test.&gt;</li> <li>• Time lag test &lt;Ref. to 5AT-35, Time Lag Test.&gt;</li> <li>• Road test &lt;Ref. to 5AT-32, Road Test.&gt;</li> <li>• Inhibitor switch &lt;Ref. to 5AT-51, Inhibitor Switch.&gt;</li> </ul>	Is the unit that might influence the AT problem normal?	Go to step 2.	Repair or replace each item.
<b>2 CHECK AT OIL TEMP LIGHT.</b> After the ignition switch is turned to ON, wait for at least 2 seconds.	Does the AT OIL TEMP light illuminate?	Go to step 4.	Go to step 3.
<b>3 CHECK AT OIL TEMP LIGHT.</b> 1) Turn the ignition switch to OFF. 2) Check the AT OIL TEMP light. <Ref. to 5AT(diag)-25, INSPECTION, AT Oil Temp Warning Light Display.> 3) After the ignition switch is turned to ON, wait for at least 2 seconds.	Does the AT OIL TEMP light blink?	Go to step 4.	Go to step 5.
<b>4 CHECK DTC.</b> Read the DTC. <Ref. to 5AT(diag)-19, OPERATION, Read Diagnostic Trouble Code (DTC).> <b>NOTE:</b> If the communication function of Subaru Select Monitor cannot be executed normally, check the communication circuit. <Ref. to 5AT(diag)-27, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Diagnostic Procedure for Subaru Select Monitor Communication.>	Is DTC displayed?	Go to step 6. <b>NOTE:</b> Record all DTC.	Go to step 5.
<b>5 PERFORM GENERAL DIAGNOSTICS.</b> 1) Inspect using "Diagnostic Procedure without Diagnostic Trouble Code (DTC)". <Ref. to 5AT(diag)-93, Diagnostic Procedure without Diagnostic Trouble Code (DTC).> 2) Perform the Clear Memory Mode. 3) Perform the Inspection Mode. <Ref. to 5AT(diag)-20, Inspection Mode.> 4) Display DTC.	Is DTC displayed?	Go to step 6.	Inspect using "General Diagnostic Table". <Ref. to 5AT(diag)-100, General Diagnostic Table.>

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<b>6</b> <b>PERFORM THE DIAGNOSIS.</b> 1) Inspect by referring to “Diagnostic Procedure with Diagnostic Trouble Code (DTC)”. <Ref. to 5AT(diag)-33, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> NOTE: For the DTC table, refer to “List of Diagnostic Trouble Code (DTC)”. <Ref. to 5AT(diag)-30, List of Diagnostic Trouble Code (DTC).> 2) Repair the trouble cause. 3) Perform the Clear Memory Mode. 4) Perform the Inspection Mode. <Ref. to 5AT(diag)-20, Inspection Mode.> 5) Display DTC.	Is DTC displayed?	Inspect by referring to “Diagnostic Procedure with Diagnostic Trouble Code (DTC)”. <Ref. to 5AT(diag)-33, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Inspect using “General Diagnostic Table”. <Ref. to 5AT(diag)-100, General Diagnostic Table.>