

# 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 4AT(diag)-4, Check List for Interview.> 2) Check the following items which may be affecting the AT trouble. <ul style="list-style-type: none"> <li>• General inspection &lt;Ref. to 4AT(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-30, Stall Test.&gt;</li> <li>• Line pressure test &lt;Ref. to 4AT-32, Line Pressure Test.&gt;</li> <li>• Transfer clutch pressure test &lt;Ref. to 4AT-33, Transfer Clutch Pressure Test.&gt;</li> <li>• Time lag test &lt;Ref. to 4AT-31, Time Lag Test.&gt;</li> <li>• Road test &lt;Ref. to 4AT-29, Road Test.&gt;</li> <li>• Inhibitor switch &lt;Ref. to 4AT-46, Inhibitor Switch.&gt;</li> </ul>	Is the item that might influence the AT problem normal?	Go to step 2.	Repair or replace items which might affect the AT problem.
<b>2 CHECK ATF TEMPERATURE WARNING LIGHT.</b> Turn the ignition switch to ON and wait for at least 2 seconds.	Does the ATF temperature warning light illuminate?	Go to step 3.	Check the ATF temperature warning light.
<b>3 CHECK ATF TEMPERATURE WARNING LIGHT.</b> Start the engine and wait for 2 seconds or more.	Is the ATF temperature warning light blinking?	Go to step 4.	Go to step 6.
<b>4 CHECK DTC.</b> Read the DTC. <Ref. to 4AT(diag)-20, OPERATION, Read Diagnostic Trouble Code (DTC).> NOTE: If the communication function of Subaru Select Monitor cannot be executed normally, check communication circuit. <Ref. to 4AT(diag)-26, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Diagnostic Procedure for Subaru Select Monitor Communication.>	Is DTC displayed on Subaru Select Monitor?	Record all DTC. Go to step 5.	Go to step 6.
<b>5 CHECK FREEZE FRAME DATA.</b> Using the Subaru Select Monitor, check the Freeze Frame Data.	Was the Freeze Frame Data recorded?	Record the Freeze Frame Data. Go to step 7.	Go to step 7.
<b>6 PERFORM GENERAL DIAGNOSTICS.</b> 1) Inspect using "Diagnostic Procedure without Diagnostic Trouble Code (DTC)". <Ref. to 4AT(diag)-78, Diagnostic Procedure without Diagnostic Trouble Code (DTC).> 2) Inspect using "Diagnostics with Phenomenon". <Ref. to 4AT(diag)-86, Diagnostics with Phenomenon.> 3) Perform the Inspection Mode. <Ref. to 4AT(diag)-21, Inspection Mode.> 4) Read the DTC.	Is DTC displayed on Subaru Select Monitor?	Go to step 7.	Finish the diagnosis.

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<b>7</b> <b>PERFORM DIAGNOSIS.</b> 1) Inspect using "Diagnostic Procedure with Diagnostic Trouble Code (DTC)". <Ref. to 4AT(diag)-32, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> NOTE: Refer to "List of Diagnostic Trouble Code (DTC)" for DTC. <Ref. to 4AT(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 4AT(diag)-21, Inspection Mode.> 5) Read the DTC.	Is DTC displayed on Subaru Select Monitor?	Inspect using "Diagnostic Procedure with Diagnostic Trouble Code (DTC)". <Ref. to 4AT(diag)-32, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Finish the diagnosis.