

# 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 check list. <Ref. to 5AT(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 5AT(diag)-5, INSPECTION, General Description.&gt;</li><li>• Oil leakage</li><li>• Stall speed test &lt;Ref. to 5AT-33, Stall Test.&gt;</li><li>• Line pressure test &lt;Ref. to 5AT-35, Line Pressure Test.&gt;</li><li>• Transfer clutch pressure test &lt;Ref. to 5AT-36, Transfer Clutch Pressure Test.&gt;</li><li>• Time lag test &lt;Ref. to 5AT-34, Time Lag Test.&gt;</li><li>• Road test &lt;Ref. to 5AT-32, Road Test.&gt;</li><li>• Inhibitor switch &lt;Ref. to 5AT-50, 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.
2 <b>CHECK AT OIL TEMP LIGHT.</b> Turn the ignition switch to ON and wait for at least 2 seconds.	Does the AT OIL TEMP light illuminate?	Go to step 3.	Check the AT OIL TEMP light.
3 <b>CHECK AT OIL TEMP LIGHT.</b> Start the engine and wait for 2 seconds or more.	Does the AT OIL TEMP light blink?	Go to step 4.	Go to step 6.
4 <b>CHECK DTC.</b> Read the DTC. <Ref. to 5AT(diag)-20, OPERATION, Read Diagnostic Trouble Code (DTC).> NOTE: If the communication function of Subaru Select Monitor cannot be executed normally, check the communication circuit. <Ref. to 5AT(diag)-30, 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. NOTE: When the AT OIL TEMP light blinks, check if the learning has completed.
5 <b>CHECK FREEZE FRAME DATA.</b> Using the Subaru Select Monitor, check the Freeze Frame Data.	Are freeze frame data recorded?	Record the freeze frame data. Go to step 7.	Go to step 7.
6 <b>PERFORM GENERAL DIAGNOSTICS.</b> 1) Inspect using "Diagnostic Procedure without Diagnostic Trouble Code (DTC)". <Ref. to 5AT(diag)-97, Diagnostic Procedure without Diagnostic Trouble Code (DTC).> 2) Perform the Clear Memory Mode. 3) Perform the Inspection Mode. <Ref. to 5AT(diag)-22, Inspection Mode.> 4) Read the DTC.	Is DTC displayed on Subaru Select Monitor?	Go to step 7.	Finish the diagnosis.

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7 <b>PERFORM DIAGNOSIS.</b> 1) Inspect by referring to “Diagnostic Procedure with Diagnostic Trouble Code (DTC)”. <Ref. to 5AT(diag)-36, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  NOTE: For the DTC table, refer to “List of Diagnostic Trouble Code (DTC)”. <Ref. to 5AT(diag)-33, 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)-22, Inspection Mode.> 5) Read the DTC.	Is DTC displayed on Subaru Select Monitor?	Inspect again using Diagnostic Procedure with Diagnostic Trouble Code (DTC). <Ref. to 5AT(diag)-36, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Finish the diagnosis.