

# BASIC DIAGNOSTIC PROCEDURE

## AUTOMATIC TRANSMISSION (DIAGNOSTICS)

### 1. Basic Diagnostic Procedure

#### A: PROCEDURE

Step	Check	Yes	No
<p><b>1</b></p> <p><b>CHECK PRE-INSPECTION.</b></p> <p>1)Ask the customer when and how trouble occurred using interview checklist. &lt;Ref. to 4AT-4, Check List for Interview.&gt;</p> <p>2)Before performing the diagnosis, inspect following items which might influence the AT problems.</p> <ul style="list-style-type: none"> <li>•General inspection &lt;Ref. to 4AT-5, INSPECTION, General Description.&gt;</li> <li>•Oil leak</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-35, 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-45, Inhibitor Switch.&gt;</li> </ul>	<p>Is the unit that might influence AT problem normal?</p>	<p>Go to step 2.</p>	<p>Repair or replace each item.</p>
<p><b>2</b></p> <p><b>CHECK AT OIL TEMP WARNING LIGHT.</b></p> <p>Turn the ignition switch to ON.</p>	<p>Does the AT OIL TEMP warning light illuminate?</p>	<p>Go to step 4.</p>	<p>Go to step 3.</p>
<p><b>3</b></p> <p><b>CHECK AT OIL TEMP WARNING LIGHT.</b></p> <p>1)Turn the ignition switch to OFF.</p> <p>2)Repair the AT OIL TEMP warning light circuit or power supply and ground line circuit. &lt;Ref. to 4AT-29, Diagnostic Procedure for AT OIL TEMP Warning Light.&gt;</p> <p>3)Turn the ignition switch to ON.</p>	<p>Is the AT OIL TEMP warning light illuminate?</p>	<p>Go to step 4.</p>	<p>Go to step 5.</p>
<p><b>4</b></p> <p><b>CHECK INDICATION OF DTC.</b></p> <p>Calling up the DTC.</p> <p>Without Subaru Select Monitor &lt;Ref. to 4AT-23, WITHOUT SUBARU SELECT MONITOR, Read Diagnostic Trouble Code (DTC).&gt;</p> <p>With Subaru Select Monitor &lt;Ref. to 4AT-24, WITH SUBARU SELECT MONITOR, Read Diagnostic Trouble Code (DTC).&gt;</p> <p>NOTE: If the communication function of select monitor cannot be executed normally, check the communication circuit. &lt;Ref. to 4AT-34, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Diagnostic Procedure for Select Monitor Communication.&gt;</p>	<p>Is the DTC displayed?</p>	<p>Go to step 6.</p> <p>NOTE: Record all DTC.</p>	<p>Go to step 5.</p>

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<p><b>5</b></p> <p><b>PERFORM THE GENERAL DIAGNOSTICS.</b></p> <p>1)Inspect using “Diagnostic Procedure without DTC”.&lt;Ref. to 4AT-96, Diagnostic Procedure without Diagnostic Trouble Code (DTC).&gt;</p> <p>2)Inspect using “Symptom Related Diagnostic”. &lt;Ref. to 4AT-111, Symptom Related Diagnostic.&gt;</p> <p>3)Perform the clear memory mode.</p> <p>Without Subaru Select Monitor &lt;Ref. to 4AT-26, WITH SUBARU SELECT MONITOR, Clear Memory Mode.&gt;</p> <p>With Subaru Select Monitor &lt;Ref. to 4AT-26, WITHOUT SUBARU SELECT MONITOR, Clear Memory Mode.&gt;</p> <p>4)Perform the inspection mode. &lt;Ref. to 4AT-25, Inspection Mode.&gt;</p> <p>5)Calling up the DTC.</p> <p>Without Subaru Select Monitor &lt;Ref. to 4AT-23, WITHOUT SUBARU SELECT MONITOR, Read Diagnostic Trouble Code (DTC).&gt;</p> <p>With Subaru Select Monitor &lt;Ref. to 4AT-24, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).&gt;</p>	<p>Is the DTC displayed?</p>	<p>Complete the diagnosis.</p>	<p>Go to step 6.</p>
<p><b>6</b></p> <p><b>PERFORM THE DIAGNOSIS.</b></p> <p>1)Inspect using “Diagnostics Chart with DTC”. &lt;Ref. to 4AT-37, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</p> <p>NOTE: For DTC table, refer to “List of Diagnostic Trouble Code (DTC)”. &lt;Ref. to 4AT-28, List of Diagnostic Trouble Code (DTC).&gt;</p> <p>2)Repair the trouble cause.</p> <p>3)Perform the clear memory mode.</p> <p>Without Subaru Select Monitor &lt;Ref. to 4AT-26, WITH SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.&gt;</p> <p>With Subaru Select Monitor &lt;Ref. to 4AT-26, WITHOUT SUBARU SELECT MONITOR, Clear Memory Mode.&gt;</p> <p>4)Perform the inspection mode. &lt;Ref. to 4AT-25, Inspection Mode.&gt;</p> <p>5)Calling up the DTC.</p> <p>Without Subaru Select Monitor &lt;Ref. to 4AT-23, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).&gt;</p> <p>With Subaru Select Monitor &lt;Ref. to 4AT-24, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).&gt;</p>	<p>Is the DTC displayed?</p>	<p>Complete the diagnosis.</p>	<p>Inspect using “Diagnostics Procedure with Diagnostic Trouble Code (DTC)”. &lt;Ref. to 4AT-37, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</p>