

# BASIC DIAGNOSTIC PROCEDURE

## AUTOMATIC TRANSMISSION (DIAGNOSTICS)

### 1. Basic Diagnostic Procedure

#### A: PROCEDURE

**NOTE:**

This section is specified for H4SO model.

Step	Check	Yes	No
<b>1 CHECK PRE-INSPECTION.</b> 1) Ask the customer when and how trouble occurred using interview checklist. <Ref. to 4AT-4, Check List for Interview.> 2) Before performing the diagnosis, inspect following items which might influence the AT problems. •General inspection <Ref. to 4AT-5, INSPECTION, General Description.> •Make sure that each harness connector connections are tight. •Visually inspect the harness and check for any damage. •Oil leak •Stall speed test <Ref. to 4AT-34, Stall Test.> •Line pressure test <Ref. to 4AT-36, Line Pressure Test.> •Transfer clutch pressure test <Ref. to 4AT-38, Transfer Clutch Pressure Test.> •Time lag test <Ref. to 4AT-35, Time Lag Test.> •Road test <Ref. to 4AT-33, Road Test.> •Inhibitor switch <Ref. to 4AT-50, Inhibitor Switch.>	Is the unit that might influence AT problem normal?	Go to step 2.	Repair or replace each item.
<b>2 CHECK AT OIL TEMP WARNING LIGHT.</b> Turn the ignition switch to ON.	Does the AT OIL TEMP warning light blink?	Go to step 4.	Go to step 3.
<b>3 CHECK AT OIL TEMP WARNING LIGHT.</b> 1) Turn the ignition switch to OFF. 2) Repair the AT OIL TEMP warning light circuit or power supply and ground line circuit. <Ref. to 4AT-28, Diagnostic Procedure for AT OIL TEMP Warning Light.> 3) Turn the ignition switch to ON.	Does the AT OIL TEMP warning light blink?	Go to step 4.	Go to step 5.
<b>4 CHECK INDICATION OF DTC.</b> Calling up the DTC. Without Subaru Select Monitor <Ref. to 4AT-21, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).> With Subaru Select Monitor <Ref. to 4AT-22, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).> NOTE: If the communication function of select monitor cannot be executed normally, check the communication circuit. <Ref. to 4AT-34, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Diagnostic Procedure for Select Monitor Communication.>	Is the DTC displayed?	Go to step 6. NOTE: Record all DTC.	Go to step 5.

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Step	Check	Yes	No
<p><b>5</b>     <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. Without Subaru Select Monitor &lt;Ref. to 4AT-24, WITHOUT SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.&gt; With Subaru Select Monitor &lt;Ref. to 4AT-24, WITH SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.&gt;</p> <p>4) Perform the inspection mode. &lt;Ref. to 4AT-23, Inspection Mode.&gt;</p> <p>5) Calling up the DTC. Without Subaru Select Monitor &lt;Ref. to 4AT-21, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).&gt; With Subaru Select Monitor &lt;Ref. to 4AT-22, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).&gt;</p>	Is the DTC displayed?	Go to step 6.	Complete the diagnosis.
<p><b>6</b>     <b>PERFORM THE DIAGNOSIS.</b></p> <p>1) Inspect using "Diagnostics Chart with DTC". &lt;Ref. to 4AT-38, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</p> <p><b>NOTE:</b> For DTC table, refer to "List of Diagnostic Trouble Code (DTC)". &lt;Ref. to 4AT-26, List of Diagnostic Trouble Code (DTC).&gt;</p> <p>2) Repair the trouble cause.</p> <p>3) Perform the clear memory mode. Without Subaru Select Monitor &lt;Ref. to 4AT-24, WITHOUT SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.&gt; With Subaru Select Monitor &lt;Ref. to 4AT-24, WITH SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.&gt;</p> <p>4) Perform the inspection mode. &lt;Ref. to 4AT-23, Inspection Mode.&gt;</p> <p>5) Calling up the DTC. Without Subaru Select Monitor &lt;Ref. to 4AT-21, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).&gt; With Subaru Select Monitor &lt;Ref. to 4AT-22, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).&gt;</p>	Is the DTC displayed?	Inspect using "Diagnostics Procedure with Diagnostic Trouble Code (DTC)". <Ref. to 4AT-38, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Complete the diagnosis.