

BASIC DIAGNOSTIC PROCEDURE

AUTOMATIC TRANSMISSION (DIAGNOSTICS)

1. Basic Diagnostic Procedure

A: PROCEDURE

Step	Check	Yes	No
1 CHECK PRE-INSPECTION. 1) Ask the customer when and how trouble occurred using interview checklist. <Ref. to 4AT(H4SO)-4, Check List for Interview.> 2) Before performing the diagnosis, inspect following items which might influence the AT problems. <ul style="list-style-type: none"> • General inspection <Ref. to 4AT(H4SO)-5, INSPECTION, General Description.> • Oil leak • Stall speed test <Ref. to 4AT-32, Stall Test.> • Line pressure test <Ref. to 4AT-35, Line Pressure Test.> • Transfer clutch pressure test <Ref. to 4AT-37, Transfer Clutch Pressure Test.> • Time lag test <Ref. to 4AT-34, Time Lag Test.> • Road test <Ref. to 4AT-31, Road Test.> • Inhibitor switch <Ref. to 4AT-49, Inhibitor Switch.> 	Is the unit that might influence AT problem normal?	Go to step 2.	Repair or replace each item.
2 CHECK AT OIL TEMP WARNING LIGHT. Turn the ignition switch to ON.	Does the AT OIL TEMP warning light illuminate?	Go to step 4.	Go to step 3.
3 CHECK AT OIL TEMP WARNING LIGHT. 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(H4SO)-25, Diagnostic Procedure for AT OIL TEMP Warning Light.> 3) Turn the ignition switch to ON.	Is the AT OIL TEMP warning light illuminate?	Go to step 4.	Go to step 5.
4 CHECK INDICATION OF DTC. Calling up the DTC. Without Subaru Select Monitor <Ref. to 4AT(H4SO)-19, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).> With Subaru Select Monitor <Ref. to 4AT(H4SO)-20, WITH SUBARU SELECT MONITOR, 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 4AT(H4SO)-30, 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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<p>5</p> <p>PERFORM THE GENERAL DIAGNOSTICS.</p> <p>1) Inspect using “Diagnostic Procedure without DTC”. <Ref. to 4AT(H4SO)-86, Diagnostic Procedure for No-diagnostic Trouble Code (DTC).></p> <p>2) Inspect using “Symptom Related Diagnostic”. <Ref. to 4AT(H4SO)-100, Symptom Related Diagnostic.></p> <p>3) Perform the clear memory mode. Without Subaru Select Monitor <Ref. to 4AT(H4SO)-22, WITH SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.> With Subaru Select Monitor <Ref. to 4AT(H4SO)-22, WITHOUT SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.></p> <p>4) Perform the inspection mode. <Ref. to 4AT(H4SO)-21, Inspection Mode.></p> <p>5) Calling up the DTC. Without Subaru Select Monitor <Ref. to 4AT(H4SO)-19, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).> With Subaru Select Monitor <Ref. to 4AT(H4SO)-20, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).></p>	<p>Is the DTC displayed?</p>	<p>Go to step 6.</p>	<p>Complete the diagnosis.</p>
<p>6</p> <p>PERFORM THE DIAGNOSIS.</p> <p>1) Inspect using “Diagnostics Chart with DTC”. <Ref. to 4AT(H4SO)-33, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></p> <p>NOTE: For DTC table, refer to “List of Diagnostic Trouble Code (DTC)”. <Ref. to 4AT(H4SO)-24, List of Diagnostic Trouble Code (DTC).></p> <p>2) Repair the trouble cause.</p> <p>3) Perform the clear memory mode. Without Subaru Select Monitor <Ref. to 4AT(H4SO)-22, WITH SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.> With Subaru Select Monitor <Ref. to 4AT(H4SO)-22, WITHOUT SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.></p> <p>4) Perform the inspection mode. <Ref. to 4AT(H4SO)-21, Inspection Mode.></p> <p>5) Calling up the DTC. Without Subaru Select Monitor <Ref. to 4AT(H4SO)-19, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).> With Subaru Select Monitor <Ref. to 4AT(H4SO)-20, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).></p>	<p>Is the DTC displayed?</p>	<p>Inspect using “Diagnostics Procedure with Diagnostic Trouble Code (DTC)”. <Ref. to 4AT(H4SO)-33, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></p>	<p>Complete the diagnosis.</p>