

Basic Diagnostic Procedure

AUTOMATIC TRANSMISSION (DIAGNOSTICS)

1. Basic Diagnostic Procedure

A: PROCEDURE

	Step	Check	Yes	No
1	<p>CHECK PRE-INSPECTION.</p> <p>1) Ask the customer when and how the trouble occurred using the interview check list. <Ref. to 4AT(D)(diag)-4, Check List for Interview.></p> <p>2) Before performing diagnosis, inspect the following items which may influence AT problems.</p> <ul style="list-style-type: none"> • General Inspection <Ref. to 4AT(D)(diag)-5, INSPECTION, General Description.> • Disconnection of harness connector • Visual check for harness damage • Oil leakage • Stall speed test <Ref. to 4AT-32, Stall Test.> • Line pressure test <Ref. to 4AT-34, Line Pressure Test.> • Transfer clutch pressure test <Ref. to 4AT-36, Transfer Clutch Pressure Test.> • Time lag test <Ref. to 4AT-33, Time Lag Test.> • Road test <Ref. to 4AT-31, Road Test.> • Inhibitor switch <Ref. to 4AT-47, Inhibitor Switch.> 	Is the unit that is thought to influence the AT problem working properly?	Go to step 2.	Repair or replace each item.
2	<p>CHECK AT OIL TEMP WARNING LIGHT.</p> <p>Turn the ignition switch to ON.</p>	Does the AT OIL TEMP warning light illuminate?	Go to step 4.	Go to step 3.
3	<p>CHECK AT OIL TEMP WARNING LIGHT.</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. <Ref. to 4AT(D)(diag)-20, AT OIL TEMP Warning Light Display.></p> <p>3) Turn the ignition switch to ON.</p>	Is the AT OIL TEMP warning light flashing?	Go to step 4.	Go to step 5.
4	<p>CHECK INDICATION OF DTC.</p> <p>Display the DTC.</p> <p>NOTE: If the communication function of Subaru Select Monitor cannot be executed normally, check the communication circuit. <Ref. to 4AT(D)(diag)-25, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Diagnostic Procedure for Subaru Select Monitor Communication.></p>	Is DTC displayed?	Go to step 6. NOTE: Record all DTC.	Go to step 5.
5	<p>PERFORM GENERAL DIAGNOSTICS.</p> <p>1) Inspect using "Diagnostic Procedure without Diagnostic Trouble Code (DTC)". <Ref. to 4AT(D)(diag)-87, Diagnostic Procedure without Diagnostic Trouble Code (DTC).></p> <p>2) Inspect using "General Diagnostic Table". <Ref. to 4AT(D)(diag)-90, General Diagnostic Table.></p> <p>3) Perform the Clear Memory Mode.</p> <p>4) Perform the Inspection Mode. <Ref. to 4AT(D)(diag)-18, Inspection Mode.></p> <p>5) Display the DTC.</p>	Is DTC displayed?	Go to step 6.	Finish the diagnosis.

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	Step	Check	Yes	No
6	<p>PERFORM DIAGNOSIS.</p> <p>1) Inspect using the “Diagnostic Procedure with Diagnostic Trouble Code (DTC)”. <Ref. to 4AT(D)(diag)-31, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></p> <p>NOTE: For DTC table, refer to “List of Diagnostic Trouble Code (DTC)”. <Ref. to 4AT(D)(diag)-29, List of Diagnostic Trouble Code (DTC).></p> <p>2) Repair the trouble cause.</p> <p>3) Perform the Clear Memory Mode.</p> <p>4) Perform the Inspection Mode. <Ref. to 4AT(D)(diag)-18, Inspection Mode.></p> <p>5) Display the DTC.</p>	Is DTC displayed?	Inspect using the “Diagnostic Procedure with Diagnostic Trouble Code (DTC)”. <Ref. to 4AT(D)(diag)-31, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Finish the diagnosis.