

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 the trouble occurred using the interview checklist. <Ref. to 4AT(D)(diag)-4, Check List for Interview.> 2) Before performing diagnosis, inspect the following items which may influence AT problems. <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-48, 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 CHECK AT OIL TEMP WARNING LIGHT. Turn the ignition switch 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 OFF. 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.> 3) Turn the ignition switch ON.	Is the AT OIL TEMP warning light flashing?	Go to step 4.	Go to step 5.
4 CHECK INDICATION OF DTC. Display the DTC. 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.>	Is DTC displayed?	Go to step 6. NOTE: Record all DTC.	Go to step 5.
5 PERFORM GENERAL DIAGNOSTICS. 1) Inspect using "Diagnostic Procedure without Diagnostic Trouble Code (DTC)". <Ref. to 4AT(D)(diag)-87, Diagnostic Procedure without Diagnostic Trouble Code (DTC).> 2) Inspect using "General Diagnostic Table". <Ref. to 4AT(D)(diag)-90, General Diagnostic Table.> 3) Perform the Clear Memory Mode. 4) Perform the Inspection Mode. <Ref. to 4AT(D)(diag)-18, Inspection Mode.> 5) Display the DTC.	Is DTC displayed?	Go to step 6.	Finish the diagnosis.

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6 PERFORM DIAGNOSIS. 1) Inspect using the “Diagnostic Procedure with Diagnostic Trouble Code (DTC)”. <Ref. to 4AT(D)(diag)-31, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> NOTE: For DTC table, refer to “List of Diagnostic Trouble Code (DTC)”. <Ref. to 4AT(D)(diag)-29, List of Diagnostic Trouble Codes (DTC).> 2) Repair the trouble cause. 3) Perform the Clear Memory Mode. 4) Perform the Inspection Mode. <Ref. to 4AT(D)(diag)-18, Inspection Mode.> 5) Display the DTC.	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.