

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 check list. <Ref. to 4AT(diag)-4, Check List for Interview.> 2) Check the following items which may be affecting the AT trouble. <ul style="list-style-type: none">• General inspection <Ref. to 4AT(diag)-5, INSPECTION, General Description.>• Disconnection of harness connector• Visual check for harness damage• Oil leakage• Stall speed test <Ref. to 4AT-30, Stall Test.>• Line pressure test <Ref. to 4AT-32, Line Pressure Test.>• Transfer clutch pressure test <Ref. to 4AT-33, Transfer Clutch Pressure Test.>• Time lag test <Ref. to 4AT-31, Time Lag Test.>• Road test <Ref. to 4AT-29, Road Test.>• Inhibitor switch <Ref. to 4AT-46, Inhibitor Switch.>	Is the item that might influence the AT problem normal?	Go to step 2.	Repair or replace items which might affect the AT problem.
2 CHECK ATF TEMPERATURE WARNING LIGHT. Turn the ignition switch to ON and wait for at least 2 seconds.	Does the ATF temperature warning light illuminate?	Go to step 3.	Check the ATF temperature warning light.
3 CHECK ATF TEMPERATURE WARNING LIGHT. Start the engine and wait for 2 seconds or more.	Is the ATF temperature warning light blinking?	Go to step 4.	Go to step 6.
4 CHECK DTC. Read the DTC. <Ref. to 4AT(diag)-20, OPERATION, Read Diagnostic Trouble Code (DTC).> NOTE: If the communication function of Subaru Select Monitor cannot be executed normally, check communication circuit. <Ref. to 4AT(diag)-26, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Diagnostic Procedure for Subaru Select Monitor Communication.>	Is DTC displayed on Subaru Select Monitor?	Record all DTC. Go to step 5.	Go to step 6.
5 CHECK FREEZE FRAME DATA. Using the Subaru Select Monitor, check the Freeze Frame Data.	Was the Freeze Frame Data recorded?	Record the Freeze Frame Data. Go to step 7.	Go to step 7.
6 PERFORM GENERAL DIAGNOSTICS. 1) Inspect using "Diagnostic Procedure without Diagnostic Trouble Code (DTC)". <Ref. to 4AT(diag)-78, Diagnostic Procedure without Diagnostic Trouble Code (DTC).> 2) Inspect using "Diagnostics with Phenomenon". <Ref. to 4AT(diag)-86, Diagnostics with Phenomenon.> 3) Perform the Inspection Mode. <Ref. to 4AT(diag)-21, Inspection Mode.> 4) Read the DTC.	Is DTC displayed on Subaru Select Monitor?	Go to step 7.	Finish the diagnosis.

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7 PERFORM DIAGNOSIS. 1) Inspect using "Diagnostic Procedure with Diagnostic Trouble Code (DTC)". <Ref. to 4AT(diag)-32, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> NOTE: Refer to "List of Diagnostic Trouble Code (DTC)" for DTC. <Ref. to 4AT(diag)-30, List of Diagnostic Trouble Code (DTC).> 2) Repair the trouble cause. 3) Perform the Clear Memory Mode. 4) Perform the Inspection Mode. <Ref. to 4AT(diag)-21, Inspection Mode.> 5) Read the DTC.	Is DTC displayed on Subaru Select Monitor?	Inspect using "Diagnostic Procedure with Diagnostic Trouble Code (DTC)". <Ref. to 4AT(diag)-32, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Finish the diagnosis.