

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) Before performing diagnosis, inspect the following items which may influence AT problems. <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 leaks • Stall speed test <Ref. to 4AT-30, Stall Test.> • Line pressure test <Ref. to 4AT-33, Line Pressure Test.> • Transfer clutch pressure test <Ref. to 4AT-34, Transfer Clutch Pressure Test.> • Time lag test <Ref. to 4AT-32, Time Lag Test.> • Road test <Ref. to 4AT-29, Road Test.> • Inhibitor switch <Ref. to 4AT-46, Inhibitor Switch.> 	Is the unit that might influence the AT problem normal?	Go to step 2.	Repair or replace each item.
2 CHECK SPORT INDICATOR LIGHT. Start the engine and wait for 2 seconds or more.	Is the SPORT indicator light blinking?	Go to step 4.	Go to step 3.
3 CHECK SPORT INDICATOR LIGHT. 1) Turn the ignition switch to OFF. 2) Check the SPORT indicator light. <Ref. to 4AT(diag)-21, INSPECTION, SPORT Indicator Light Display.> 3) Turn the ignition switch to ON and wait for at least 2 seconds. 4) Start the engine.	Does the SPORT indicator light blink?	Go to step 4.	Go to step 5.
4 CHECK DTC. Display the DTC. NOTE: If the communication function of Subaru Select Monitor cannot be executed normally, check communication circuit. <Ref. to 4AT(diag)-23, 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(diag)-90, Diagnostic Procedure without Diagnostic Trouble Code (DTC).> 2) Inspect using "General Diagnostic Table". <Ref. to 4AT(diag)-101, Diagnostics with Phenomenon.> 3) Perform the Inspection Mode. <Ref. to 4AT(diag)-18, Inspection Mode.> 4) Display the DTC.	Is DTC displayed?	Go to step 6.	Finish the diagnosis.

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<p>6 PERFORM DIAGNOSIS. 1) Inspect using the “Diagnostic Procedure with Diagnostic Trouble Code (DTC)”.<Ref. to 4AT(diag)-29, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> NOTE: For DTC table, refer to “List of Diagnostic Trouble Code (DTC)”. <Ref. to 4AT(diag)-27, 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)-18, Inspection Mode.> 5) Display the DTC.</p>	Is DTC displayed?	Inspect using the “Diagnostic Procedure with Diagnostic Trouble Code (DTC)”.<Ref. to 4AT(diag)-29, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Finish the diagnosis.