

Basic Diagnostic Procedure

AUTOMATIC TRANSMISSION (DIAGNOSTICS)

1. Basic Diagnostic Procedure

A: PROCEDURE

| Step | Check | Yes | No |
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| 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 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 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(diag)-22, AT Oil Temp Warning Light Display.> 3) Turn the ignition switch to 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(diag)-27, 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)-83, Diagnostic Procedure without Diagnostic Trouble Code (DTC).> 2) Inspect using "General Diagnostic Table". <Ref. to 4AT(diag)-86, General Diagnostic Table.> 3) Perform the Clear Memory Mode. 4) Perform the Inspection Mode. <Ref. to 4AT(diag)-20, 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(diag)-33, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> NOTE: For DTC table, refer to "List of Diagnostic Trouble Code (DTC)". <Ref. to 4AT(diag)-31, 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)-20, Inspection Mode.> 5) Display the DTC. | Is DTC displayed? | Inspect using the "Diagnostic Procedure with Diagnostic Trouble Code (DTC)". <Ref. to 4AT(diag)-33, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> | Finish the diagnosis. |