

# BASIC DIAGNOSTIC PROCEDURE

Automatic Transmission (Diagnostics)

## 1. Basic Diagnostic Procedure S004501

### A: PROCEDURE S004501E45

No.	Step	Check	Yes	No
1	<b>CHECK PRE-INSPECTION.</b> 1) Ask the customer when and how the trouble occurred using the interview checklist. <Ref. to AT-4, Check List for Interview.> 2) Before performing diagnosis, inspect the following items which might influence the AT problems. <ul style="list-style-type: none"> <li>● General inspection &lt;Ref. to AT-5, INSPECTION, General Description.&gt;</li> <li>● Oil leak</li> <li>● Stall speed test &lt;Ref. to AT-13, Stall Test.&gt;</li> <li>● Line pressure test &lt;Ref. to AT-16, Line Pressure Test.&gt;</li> <li>● Transfer clutch pressure test &lt;Ref. to AT-18, Transfer Clutch Pressure Test.&gt;</li> <li>● Time lag test &lt;Ref. to AT-15, Time Lag Test.&gt;</li> <li>● Road test &lt;Ref. to AT-12, Road Test.&gt;</li> <li>● Inhibitor switch &lt;Ref. to AT-29, Inhibitor Switch.&gt;</li> </ul>	Is the unit that might influence the AT problem normal?	Go to step 2.	Repair or replace each item.
2	<b>CHECK "AT OIL TEMP" WARNING LIGHT.</b> Turn the ignition switch to ON.	Does not the "AT OIL TEMP" warning light light up?	Go to step 3.	Go to step 4.
3	<b>CHECK "AT OIL TEMP" WARNING LIGHT.</b> 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 AT-32, Diagnostic Procedure for "AT Oil Temp" Warning Light.> 3) Turn the ignition switch to ON.	Is the "AT OIL TEMP" warning light flashing?	Go to step 4.	Go to step 5.
4	<b>CHECK INDICATION OF DTC.</b> Calling up the diagnostic trouble code (DTC). Without SUBARU SELECT MONITOR <Ref. to AT-25, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).> With SUBARU SELECT MONITOR <Ref. to AT-26, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).> NOTE: If the communication function of the select monitor cannot be executed normally, check the communication circuit. <Ref. to AT-40, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Diagnostic Procedure for Select Monitor Communication.>	Is the diagnostic trouble code (DTC) displayed?	Go to step 6. NOTE: Record all diagnostic trouble code (DTC).	Go to step 5.

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5	<p><b>PERFORM THE GENERAL DIAGNOSTICS.</b></p> <p>1) Inspect using the "Diagnostic Procedure for No-Diagnostic trouble Code". &lt;Ref. to AT-116, Diagnostic Procedure for No-diagnostic Trouble Code (DTC).&gt;</p> <p>2) Inspect using the "Symptom Related Diagnostic". &lt;Ref. to AT-134, Symptom Related Diagnostic.&gt;</p> <p>3) Perform the clear memory mode. With SUBARU SELECT MONITOR &lt;Ref. to AT-28, WITH SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.&gt; Without SUBARU SELECT MONITOR &lt;Ref. to AT-28, WITHOUT SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.&gt;</p> <p>4) Perform the inspection mode. &lt;Ref. to AT-27, Inspection Mode.&gt; Calling up the diagnostic trouble code (DTC). Without SUBARU SELECT MONITOR &lt;Ref. to AT-25, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).&gt; With SUBARU SELECT MONITOR &lt;Ref. to AT-26, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).&gt;</p>	Is the diagnostic trouble code (DTC) displayed?	Go to step 6.	Complete the diagnosis.
6	<p><b>PERFORM THE DIAGNOSIS.</b></p> <p>1) Inspect using the "Diagnostics Chart with Diagnostic Trouble Code". &lt;Ref. to AT-44, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt; NOTE: For trouble code table, refer to the "List of Diagnostic Trouble Code". &lt;Ref. to AT-30, List of Diagnostic Trouble Code (DTC).&gt;</p> <p>2) Repair the trouble cause.</p> <p>3) Perform the clear memory mode. With SUBARU SELECT MONITOR &lt;Ref. to AT-28, WITH SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.&gt; Without SUBARU SELECT MONITOR &lt;Ref. to AT-28, WITHOUT SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.&gt;</p> <p>4) Perform the inspection mode. &lt;Ref. to AT-27, Inspection Mode.&gt;</p> <p>5) Calling up the diagnostic trouble code (DTC). Without SUBARU SELECT MONITOR &lt;Ref. to AT-25, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).&gt; With SUBARU SELECT MONITOR &lt;Ref. to AT-26, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).&gt;</p>	Is the diagnostic trouble code (DTC) displayed?	Inspect using the "Diagnostics Chart with Diagnostic Connector". <Ref. to AT-44, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Complete the diagnosis.