

## BASIC DIAGNOSTIC PROCEDURE

### AUTOMATIC TRANSMISSION (DIAGNOSTICS)

## 1. Basic Diagnostic Procedure

### A: PROCEDURE

Step	Value	Yes	No
<b>1 CHECK PRE-INSPECTION.</b> 1) Ask the customer when and how the trouble occurred using interview checklist. <Ref. to AT-5, Check List for Interview.> 2) Before performing diagnosis, inspect the following items which might influence the AT problems. •General inspection <Ref. to AT-6, INSPECTION, General Description.> •Oil leak •Stall speed test <Ref. to AT-33, Stall Test.> •Line pressure test <Ref. to AT-36, Line Pressure Test.> •Transfer clutch pressure test <Ref. to AT-38, Transfer Clutch Pressure Test.> •Time lag test <Ref. to AT-35, Time Lag Test.> •Road test <Ref. to AT-32, Road Test.> •Inhibitor switch <Ref. to AT-49, Inhibitor Switch.> Is unit that might influence the AT problem normal?	Normal.	Go to step 2.	Repair or replace each item.
<b>2 CHECK AT OIL TEMP WARNING LIGHT.</b> Turn ignition switch to ON. Does the AT OIL TEMP warning light light up?	Lights up.	Go to step 4.	Go to step 3.
<b>3 CHECK AT OIL TEMP WARNING LIGHT.</b> 1) Turn ignition switch to OFF. 2) Repair 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 ignition switch to ON. Is the AT OIL TEMP warning light flashing?	Lights up.	Go to step 4.	Go to step 5.
<b>4 CHECK INDICATION OF DTC.</b> Calling up the DTC. Without SUBARU SELECT MONITOR <Ref. to AT-26, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).> With SUBARU SELECT MONITOR <Ref. to AT-27, 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 DTC displayed?	DTC indicated.	Go to step 6. NOTE: Record all DTCs.	Go to step 5.

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Step	Value	Yes	No
<b>5 PERFORM THE GENERAL DIAGNOSTICS.</b> 1) Inspect using "Diagnostic Procedure for No-diagnostic Trouble Code (DTC)". <Ref. to AT-129, Diagnostic Procedure for No-diagnostic Trouble Code (DTC).> 2) Inspect using "Symptom Related Diagnostic". <Ref. to AT-160, Symptom Related Diagnostic.> 3) Perform the clear memory mode. With SUBARU SELECT MONITOR <Ref. to AT-29, WITH SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.> Without SUBARU SELECT MONITOR <Ref. to AT-29, WITHOUT SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.> 4) Perform the inspection mode. <Ref. to AT-28, Inspection Mode.> Calling up the diagnostic trouble code (DTC). Without SUBARU SELECT MONITOR <Ref. to AT-26, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).> With SUBARU SELECT MONITOR <Ref. to AT-27, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).> Is the DTC displayed?	DTC indicated.	Go to step 6.	Complete the diagnosis.

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<p><b>6</b>     <b>PERFORM THE DIAGNOSIS.</b></p> <p>1) Inspect using "Diagnostics Chart with Diagnostic Trouble Code". &lt;Ref. to AT-44, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</p> <p>NOTE: For trouble code table, refer to "List of Diagnostic Trouble Code (DTC)". &lt;Ref. to AT-31, List of Diagnostic Trouble Code (DTC).&gt;</p> <p>2) Repair trouble cause.</p> <p>3) Perform the clear memory mode. With SUBARU SELECT MONITOR &lt;Ref. to AT-29, WITH SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.&gt; Without SUBARU SELECT MONITOR &lt;Ref. to AT-29, WITHOUT SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.&gt;</p> <p>4) Perform the inspection mode. &lt;Ref. to AT-28, Inspection Mode.&gt;</p> <p>5) Calling up the diagnostic trouble code (DTC). Without SUBARU SELECT MONITOR &lt;Ref. to AT-26, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).&gt; With SUBARU SELECT MONITOR &lt;Ref. to AT-27, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).&gt; Is the DTC displayed?</p>	<p>DTC indicated.</p>	<p>Inspect using "Diagnostics Chart with Diagnostic Connector". &lt;Ref. to AT-44, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</p>	<p>Complete the diagnosis.</p>