

# BASIC DIAGNOSTIC PROCEDURE

## AUTOMATIC TRANSMISSION (DIAGNOSTICS)

### 1. Basic Diagnostic Procedure

#### A: PROCEDURE

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-33, Stall Test.&gt;</li><li>•Line pressure test &lt;Ref. to AT-36, Line Pressure Test.&gt;</li><li>•Transfer clutch pressure test &lt;Ref. to AT-38, Transfer Clutch Pressure Test.&gt;</li><li>•Time lag test &lt;Ref. to AT-35, Time Lag Test.&gt;</li><li>•Road test &lt;Ref. to AT-32, Road Test.&gt;</li><li>•Inhibitor switch &lt;Ref. to AT-48, Inhibitor Switch.&gt;</li></ul> Is the unit that might influence the AT problem normal?	Units are 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 the AT OIL TEMP warning light turn on?	The AT OIL TEMP warning light turns on.	Go to step 4.	Go to step 3.
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-31, Diagnostic Procedure for AT OIL TEMP Warning Light.> 3)Turn the ignition switch to ON. Is the AT OIL TEMP warning light flashing?	The AT OIL TEMP warning light flashes.	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-24, WITHOUT SUBARU SELECT MONITOR, Read Diagnostic Trouble Code (DTC).> With SUBARU SELECT MONITOR <Ref. to AT-25, WITH SUBARU SELECT MONITOR, 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-39, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Diagnostic Procedure for Select Monitor Communication.> Is the diagnostic trouble code (DTC) displayed?	The diagnostic trouble code (DTC) is displayed.	Go to step 6.  NOTE: Record all diagnostic trouble code (DTC).	Go to step 5.

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## AUTOMATIC TRANSMISSION (DIAGNOSTICS)

Step	Check	Yes	No
5 <b>PERFORM THE GENERAL DIAGNOSTICS.</b> 1)Inspect using the “Diagnostic Procedure for No-Diagnostic trouble Code”. <Ref. to AT-121, Diagnostic Procedure for No-Diagnostic Trouble Code (DTC).> 2)Inspect using the “Symptom Related Diagnostic”. <Ref. to AT-141, Symptom Related Diagnostic.> 3)Perform the clear memory mode. With SUBARU SELECT MONITOR <Ref. to AT-27, WITH SUBARU SELECT MONITOR, Clear Memory Mode.> Without SUBARU SELECT MONITOR <Ref. to AT-27, WITHOUT SUBARU SELECT MONITOR, Clear Memory Mode.> 4)Perform the inspection mode. <Ref. to AT-26, Inspection Mode.> Calling up the diagnostic trouble code (DTC). Without SUBARU SELECT MONITOR <Ref. to AT-24, WITHOUT SUBARU SELECT MONITOR, Read Diagnostic Trouble Code (DTC).> With SUBARU SELECT MONITOR <Ref. to AT-25, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).> Is the diagnostic trouble code (DTC) displayed?	The diagnostic trouble code (DTC) is displayed.	Go to step 6.	Complete the diagnosis.
6 <b>PERFORM THE DIAGNOSIS.</b> 1)Inspect using the “Diagnostics Chart with Diagnostic Trouble Code”. <Ref. to AT-44, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> NOTE: For trouble code table, refer to the “List of Diagnostic Trouble Code”. <Ref. to AT-29, List of Diagnostic Trouble Code (DTC).> 2)Repair the trouble cause. 3)Perform the clear memory mode. With SUBARU SELECT MONITOR <Ref. to AT-27, WITH SUBARU SELECT MONITOR, OPERATION, Clear Memory Mode.> Without SUBARU SELECT MONITOR <Ref. to AT-27, WITHOUT SUBARU SELECT MONITOR, Clear Memory Mode.> 4)Perform the inspection mode. <Ref. to AT-26, Inspection Mode.> 5)Calling up the diagnostic trouble code (DTC). Without SUBARU SELECT MONITOR <Ref. to AT-24, WITHOUT SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).> With SUBARU SELECT MONITOR <Ref. to AT-25, WITH SUBARU SELECT MONITOR, OPERATION, Read Diagnostic Trouble Code (DTC).> Is the diagnostic trouble code (DTC) displayed?	The diagnostic trouble code (DTC) is displayed.	Inspect using the “Diagnostics Chart with Diagnostic Connector”. <Ref. to AT-44, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Complete the diagnosis.