

# Basic Diagnostic Procedure

## AUTOMATIC TRANSMISSION (DIAGNOSTICS)

### 1. Basic Diagnostic Procedure

#### A: PROCEDURE

| Step                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Check                                                   | Yes                                         | No                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|------------------------------------------------------------|
| <b>1 CHECK PRE-INSPECTION.</b><br>1) Ask the customer when and how the trouble occurred using the interview check list. <Ref. to 5AT(diag)-4, Check List for Interview.><br>2) Check the following items which may be affecting the AT trouble.<br><ul style="list-style-type: none"> <li>• General inspection &lt;Ref. to 5AT(diag)-5, INSPECTION, General Description.&gt;</li> <li>• Oil leakage</li> <li>• Stall speed test &lt;Ref. to 5AT-33, Stall Test.&gt;</li> <li>• Line pressure test &lt;Ref. to 5AT-35, Line Pressure Test.&gt;</li> <li>• Transfer clutch pressure test &lt;Ref. to 5AT-36, Transfer Clutch Pressure Test.&gt;</li> <li>• Time lag test &lt;Ref. to 5AT-34, Time Lag Test.&gt;</li> <li>• Road test &lt;Ref. to 5AT-32, Road Test.&gt;</li> <li>• Inhibitor switch &lt;Ref. to 5AT-48, Inhibitor Switch.&gt;</li> </ul> | Is the item that might influence the AT problem normal? | Go to step 2.                               | Repair or replace items which might affect the AT problem. |
| <b>2 CHECK AT OIL TEMP LIGHT.</b><br>Turn the ignition switch to ON and wait for at least 2 seconds.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Does the AT OIL TEMP light illuminate?                  | Go to step 3.                               | Check the AT OIL TEMP light.                               |
| <b>3 CHECK AT OIL TEMP LIGHT.</b><br>Start the engine and wait for 2 seconds or more.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Does the AT OIL TEMP light blink?                       | Go to step 4.                               | Go to step 6.                                              |
| <b>4 CHECK DTC.</b><br>Read the DTC. <Ref. to 5AT(diag)-19, OPERATION, Read Diagnostic Trouble Code (DTC).><br>NOTE:<br>If the communication function of Subaru Select Monitor cannot be executed normally, check communication circuit. <Ref. to 5AT(diag)-29, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Diagnostic Procedure for Subaru Select Monitor Communication.>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Is DTC displayed on Subaru Select Monitor?              | Record all DTC. Go to step 5.               | Go to step 6.                                              |
| <b>5 CHECK FREEZE FRAME DATA.</b><br>Using the Subaru Select Monitor, check the Freeze Frame Data.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Are freeze frame data recorded?                         | Record the freeze frame data. Go to step 7. | Go to step 7.                                              |
| <b>6 PERFORM GENERAL DIAGNOSTICS.</b><br>1) Inspect using "Diagnostic Procedure without Diagnostic Trouble Code (DTC)". <Ref. to 5AT(diag)-101, Diagnostic Procedure without Diagnostic Trouble Code (DTC).><br>2) Perform the Clear Memory Mode.<br>3) Perform the Inspection Mode. <Ref. to 5AT(diag)-20, Inspection Mode.><br>4) Display the DTC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Is DTC displayed on Subaru Select Monitor?              | Go to step 7.                               | Finish the diagnosis.                                      |

# Basic Diagnostic Procedure

## AUTOMATIC TRANSMISSION (DIAGNOSTICS)

| Step                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Check                                      | Yes                                                                                                                                                       | No                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>7</b><br><b>PERFORM DIAGNOSIS.</b><br>1) Inspect using "Diagnostic Procedure with Diagnostic Trouble Code (DTC)". <Ref. to 5AT(diag)-35, Diagnostic Procedure with Diagnostic Trouble Code (DTC).><br>NOTE:<br>For the DTC table, refer to "List of Diagnostic Trouble Code (DTC)". <Ref. to 5AT(diag)-32, List of Diagnostic Trouble Code (DTC).><br>2) Repair the trouble cause.<br>3) Perform the Clear Memory Mode.<br>4) Perform the Inspection Mode. <Ref. to 5AT(diag)-20, Inspection Mode.><br>5) Display the DTC. | Is DTC displayed on Subaru Select Monitor? | Inspect using "Diagnostic Procedure with Diagnostic Trouble Code (DTC)". <Ref. to 5AT(diag)-35, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> | Finish the diagnosis. |