

BASIC DIAGNOSTIC PROCEDURE

ENGINE (DIAGNOSTICS)

1. Basic Diagnostic Procedure

A: PROCEDURE

1. ENGINE

Step	Check	Yes	No
1 CHECK ENGINE START FAILURE. 1) Ask the customer when and how the trouble occurred using the interview check list. <Ref. to EN(H4SO)-4, CHECK, Check List for Interview.> 2) Start the engine.	Does the engine start?	Go to step 2.	Inspection using "Diagnostics for Engine Start Failure". <Ref. to EN(H4SO)-64, Diagnostics for Engine Starting Failure.>
2 CHECK ILLUMINATION OF CHECK ENGINE MALFUNCTION INDICATOR LAMP (MIL).	Does CHECK ENGINE malfunction indicator lamp illuminate?	Go to step 3.	Inspection using "General Diagnostics Table". <Ref. to EN(H4SO)-371, INSPECTION, General Diagnostic Table.>
3 CHECK INDICATION OF DTC ON DISPLAY. 1) Turn ignition switch to OFF. 2) Connect the Subaru Select Monitor or the general scan tool to data link connector. 3) Turn ignition switch to ON and the Subaru Select Monitor or general scan tool switch to ON. 4) Read DTC on the Subaru Select Monitor or general scan tool.	Does the Subaru Select Monitor or general scan tool indicate DTC?	Go to step 4.	Repair the related parts. NOTE: If DTC is not shown on display although the MIL illuminates, perform diagnostics of MIL (CHECK ENGINE malfunction indicator lamp) circuit or combination meter. <Ref. to EN(H4SO)-53, Engine Malfunction Indicator Lamp (MIL).>
4 PERFORM THE DIAGNOSIS. 1) Inspect using "Diagnostics Procedure with Diagnostic Trouble Code (DTC)". NOTE: <Ref. to EN(H4SO)-92, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> NOTE: Carry out the basic check, only when DTC about automatic transmission is shown on display. <Ref. to EN(H4SO)-41, Read Diagnostic Trouble Code.> 2) Repair the trouble cause. 3) Perform the clear memory mode. <Ref. to EN(H4SO)-50, Clear Memory Mode.> 4) Perform the inspection mode. <Ref. to EN(H4SO)-42, Inspection Mode.>	Does the Subaru Select Monitor or general scan tool indicate DTC?	Inspect using "Diagnostics Procedure with Diagnostic Trouble Code (DTC)". NOTE: <Ref. to EN(H4SO)-92, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Complete the diagnosis.

2. AUTOMATIC TRANSMISSION

When trouble code about automatic transmission is shown on display, carry out the following basic check. After that, carry out the replacement or repair work.

- 1) ATF level check <Ref. to 4AT-31, Automatic Transmission Fluid.>
- 2) Differential gear oil level check <Ref. to 4AT-32, Differential Gear Oil.>
- 3) ATF leak check <Ref. to 4AT-31, Automatic Transmission Fluid.>
- 4) Differential gear oil leak check <Ref. to 4AT-32, Differential Gear Oil.>
- 5) Stall test <Ref. to 4AT-34, Stall Test.>
- 6) Line pressure test <Ref. to 4AT-36, Line Pressure Test.>
- 7) Transfer clutch pressure test <Ref. to 4AT-38, Transfer Clutch Pressure Test.>
- 8) Time lag test <Ref. to 4AT-35, Time Lag Test.>
- 9) Road test <Ref. to 4AT-33, Road Test.>
- 10) Shift characteristics <Ref. to 4AT-38, Transfer Clutch Pressure Test.>