

BASIC DIAGNOSTIC PROCEDURE

Engine

1. Basic Diagnostic Procedure

S008501

A: PROCEDURE

S008501E45

1. ENGINE

S008501E4501

No.	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-4 CHECK, Check List for Interview.> 2) Start the engine.	Does the engine start?	Go to step 2.	Inspection using "Diagnostics for Engine Starting Failure". <Ref. to EN-71 PROCEDURE, 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 Diagnostic Table". <Ref. to EN-532 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 OBD-II general scan tool to data link connector. 3) Turn ignition switch to ON and the Subaru Select Monitor or OBD-II general scan tool switch to ON. 4) Read DTC on the Subaru Select Monitor or OBD-II general scan tool.	Does the Subaru Select Monitor or OBD-II 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-63 ACTIVATION OF CHECK ENGINE MALFUNCTION INDICATOR LAMP (MIL), Engine Malfunction Indicator Lamp (MIL) Illumination Pattern.>

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Engine

No.	Step	Check	Yes	No
4	<p>PERFORM THE DIAGNOSIS.</p> <p>1) Inspect using "List of Diagnostic Trouble Code (DTC)".</p> <p>NOTE:</p> <ul style="list-style-type: none">• 2200 cc Models: <Ref. to EN-93 LIST, List of Diagnostic Trouble Code (DTC) for 2200 cc Models.>• 2500 cc Models: <Ref. to EN-300 LIST, List of Diagnostic Trouble Code (DTC) for 2500 cc Models.> <p>NOTE:</p> <p>Carry out the basic check, only when DTC about automatic transmission is shown on display. <Ref. to EN-63 ACTIVATION OF CHECK ENGINE MALFUNCTION INDICATOR LAMP (MIL), Engine Malfunction Indicator Lamp (MIL) Illumination Pattern.></p> <p>2) Repair the trouble cause.</p> <p>3) Perform the clear memory mode. <Ref. to EN-60 OPERATION, Clear Memory Mode.></p> <p>4) Perform the inspection mode. <Ref. to EN-57 OPERATION, Inspection Mode.></p>	Does the Subaru Select Monitor or OBD-II general scan tool indicate DTC?	Inspect using "List of Diagnostic Trouble Code (DTC)".	Complete the diagnosis.

2. AUTOMATIC TRANSMISSION S008501E4502

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 AT-9 REPLACEMENT, Automatic Transmission Fluid.>
- 2) Differential gear oil level check <Ref. to AT-10 REPLACEMENT, Differential Gear Oil.>
- 3) ATF leak check <Ref. to AT-9 REPLACEMENT, Automatic Transmission Fluid.>
- 4) Differential gear oil leak check <Ref. to AT-10 REPLACEMENT, Differential Gear Oil.>
- 5) Stall test <Ref. to AT-12 INSPECTION, Stall Test.>
- 6) Line pressure test <Ref. to AT-15 MEASUREMENT, Line Pressure Test.>
- 7) Transfer clutch pressure test <Ref. to AT-17 INSPECTION, Transfer Clutch Pressure Test.>
- 8) Time lag test <Ref. to AT-14 INSPECTION, Time Lag Test.>
- 9) Road test <Ref. to AT-11 INSPECTION, Road Test.>
- 10) Shift characteristics <Ref. to AT-17 INSPECTION, Transfer Clutch Pressure Test.>