

# Basic Diagnostic Procedure

## ENGINE (DIAGNOSTICS)

### 1. Basic Diagnostic Procedure

#### A: PROCEDURE

##### 1. ENGINE

| Step  | Check   | Yes   | No   |
|---|---|---|--|
| <b>1 CHECK ENGINE START FAILURE.</b><br>1) Ask the customer when and how the trouble occurred using the interview check list. <Ref. to EN(H4DOTC)(diag)-4, CHECK, Check List for Interview.><br>2) Start the engine.  | Does the engine start?  | Go to step 2.   | Inspection using "Diagnostics for Engine Starting Failure". <Ref. to EN(H4DOTC)(diag)-65, Diagnostics for Engine Starting Failure.>  |
| <b>2 CHECK ILLUMINATION OF MALFUNCTION INDICATOR LIGHT.</b>   | Does the malfunction indicator light illuminate?                | Go to step 3.   | Inspection using "General Diagnostic Table". <Ref. to EN(H4DOTC)(diag)-420, General Diagnostic Table.>   |
| <b>3 CHECK COMMUNICATION STATUS.</b><br>1) Turn the ignition switch to OFF.<br>2) Connect the Subaru Select Monitor or general scan tool to the data link connector.<br>3) Turn the ignition switch to ON, and run the Subaru Select Monitor or general scan tool.<br><b>NOTE:</b><br>• Subaru Select Monitor<br>For detailed procedures, refer to "Subaru Select Monitor". <Ref. to EN(H4DOTC)(diag)-37, Subaru Select Monitor.><br>• General scan tool<br>For detailed operation procedures, refer to the general scan tool operation manual. | Does Subaru Select Monitor communicate with vehicle normally?   | Go to step 4.   | Inspection using "Basic Diagnostic Procedure" of LAN system <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>   |
| <b>4 CHECK DTC.</b><br>Read DTC using Subaru Select Monitor or general scan tool.<br><b>NOTE:</b><br>• Subaru Select Monitor<br>Refer to "Read Diagnostic Trouble Code (DTC)" for detailed operation procedure. <Ref. to EN(H4DOTC)(diag)-44, Read Diagnostic Trouble Code (DTC).><br>• General scan tool<br>For detailed operation procedures, refer to the general scan tool operation manual.  | Is DTC displayed on Subaru Select Monitor or general scan tool? | Record DTC, time stamp, and freeze frame data, then repair the trouble cause. <Ref. to EN(H4DOTC)(diag)-82, List of Diagnostic Trouble Code (DTC).><br>After repair, go to the next step. Go to step 5.<br><b>NOTE:</b><br>• For the time stamp, refer to LAN section. <Ref. to LAN(diag)-6, TIME STAMP, CAUTION, General Description.><br>• Depending on DTCs, time stamp may not be stored. | Repair the related parts.<br><b>NOTE:</b><br>If DTC is not shown on display although the malfunction indicator light illuminates, perform the diagnosis of malfunction indicator light circuit or combination meter. <Ref. to EN(H4DOTC)(diag)-63, Malfunction Indicator Light.> |

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| Step   | Check   | Yes   | No                    |
|--|---|---|-----------------------|
| <b>5</b><br><b>PERFORM DIAGNOSIS.</b><br>1) Perform the Clear Memory Mode. <Ref. to EN(H4DOTC)(diag)-61, Clear Memory Mode.><br>2) Perform the Inspection Mode or Drive Cycle. <Ref. to EN(H4DOTC)(diag)-45, Inspection Mode.> <Ref. to EN(H4DOTC)(diag)-48, Drive Cycle.> | Is DTC displayed on Subaru Select Monitor or general scan tool? | Inspect using "Diagnostic Procedure with Diagnostic Trouble Code (DTC)".<br><Ref. to EN(H4DOTC)(diag)-93, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> | Finish the diagnosis. |