

# Basic Diagnostic Procedure

ENGINE (DIAGNOSTICS)

## 1. Basic Diagnostic Procedure

### A: PROCEDURE

#### 1. ENGINE

	Step	Check	Yes	No
1	<p><b>CHECK ENGINE START FAILURE.</b></p> <p>1) Ask the customer when and how the trouble occurred using the interview check list. &lt;Ref. to EN(H4DO w/o HEV)(diag)-4, CHECK, Check List for Interview.&gt;</p> <p>2) Start the engine.</p>	Does the engine start?	Go to step 2.	Inspection using “Diagnostics for Engine Starting Failure”. <Ref. to EN(H4DO w/o HEV)(diag)-73, Diagnostics for Engine Starting Failure.>
2	<p><b>CHECK ILLUMINATION OF MALFUNCTION INDICATOR LIGHT.</b></p>	Does the malfunction indicator light illuminate?	Go to step 3.	Inspection using “General Diagnostic Table”. <Ref. to EN(H4DO w/o HEV)(diag)-379, INSPECTION, General Diagnostic Table.>
3	<p><b>CHECK COMMUNICATION STATUS.</b></p> <p>1) Turn the ignition switch to OFF.</p> <p>2) Connect the Subaru Select Monitor or general scan tool to the data link connector.</p> <p>3) Turn the ignition switch to ON, and run the Subaru Select Monitor or general scan tool.</p> <p>NOTE:</p> <ul style="list-style-type: none"> <li>Subaru Select Monitor</li> </ul> <p>For detailed procedures, refer to “Subaru Select Monitor”. &lt;Ref. to EN(H4DO w/o HEV)(diag)-37, Subaru Select Monitor.&gt;</p> <ul style="list-style-type: none"> <li>General scan tool</li> </ul> <p>For detailed operation procedures, refer to the general scan tool operation manual.</p>	Does Subaru Select Monitor or general scan tool communicate with vehicle normally?	Go to step 4.	Inspection using “Diagnostic Procedure for Subaru Select Monitor Communication”. <Ref. to EN(H4DO w/o HEV)(diag)-94, Diagnostic Procedure for Subaru Select Monitor Communication.>
4	<p><b>CHECK DTC.</b></p> <p>Read DTC using Subaru Select Monitor or general scan tool.</p> <p>NOTE:</p> <ul style="list-style-type: none"> <li>Subaru Select Monitor</li> </ul> <p>Refer to “Read Diagnostic Trouble Code (DTC)” for detailed operation procedure. &lt;Ref. to EN(H4DO w/o HEV)(diag)-49, Read Diagnostic Trouble Code (DTC).&gt;</p> <ul style="list-style-type: none"> <li>General scan tool</li> </ul> <p>For detailed operation procedures, refer to the general scan tool operation manual.</p>	Is DTC displayed on Subaru Select Monitor or general scan tool?	Record DTC and freeze frame data, then repair the trouble cause. <Ref. to EN(H4DO w/o HEV)(diag)-96, List of Diagnostic Trouble Code (DTC).> After repair, go to the next step. Go to step 5.	Repair the related parts. NOTE: 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(H4DO w/o HEV)(diag)-67, Malfunction Indicator Light.>

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5	<b>PERFORM DIAGNOSIS.</b> 1) Perform the Clear Memory Mode. <Ref. to EN(H4DO w/o HEV)(diag)-65, Clear Memory Mode.> 2) Perform the Inspection Mode or Drive Cycle. <Ref. to EN(H4DO w/o HEV)(diag)-50, Inspection Mode.> <Ref. to EN(H4DO w/o HEV)(diag)-55, Drive Cycle.>	Is DTC displayed on Subaru Select Monitor or general scan tool?	Inspect using "Diagnostic Procedure with Diagnostic Trouble Code (DTC)". <Ref. to EN(H4DO w/o HEV)(diag)-105, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Finish the diagnosis.