

# Basic Diagnostic Procedure

## IMMOBILIZER (DIAGNOSTICS)

### 1. Basic Diagnostic Procedure

#### A: PROCEDURE

##### CAUTION:

When the body integrated unit is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".

Step	Check	Yes	No
<b>1 CONFIRM NUMBER OF REGISTERED IMMOBILIZER KEY.</b> Confirm the number of registered immobilizer key. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".	Is the number of registration 0?	Register the immobilizer system.	Go to step 2.
<b>2 CHECK SECURITY INDICATOR LIGHT.</b> 1) Remove the ignition key from ignition switch. 2) Wait at least 60 seconds.	Does the security indicator light blink?	Go to step 3.	Check the security indicator light circuit. <Ref. to IM(diag)-11, CHECK SECURITY INDICATOR LIGHT CIRCUIT, INSPECTION, Diagnostics Chart for Security Indicator Light.>
<b>3 CHECK KEY SWITCH.</b> Insert the ignition key in the ignition switch. (OFF or ACC)	Does the security indicator light remain blinking?	Check the key switch circuit. <Ref. to IM(diag)-13, CHECK KEY SWITCH CIRCUIT, INSPECTION, Diagnostics Chart for Security Indicator Light.>	Go to step 4.
<b>4 CHECK SECURITY INDICATOR LIGHT.</b> Check the security indicator light status in the condition of step 3.	Does the security indicator light go off?	Go to step 7.	Go to step 5.
<b>5 CHECK SECURITY INDICATOR LIGHT.</b> Turn the ignition switch to ON.	Does the security indicator light go off?	Go to step 7.	Go to step 6.
<b>6 CHECK ENGINE START.</b> Turn the ignition switch to START.	Does the starter operate?	Check the LAN communication system. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>	Go to step 8.
<b>7 CHECK ENGINE START.</b> Turn the ignition switch to START.	Does the engine start?	Immobilizer system is normal.	Go to step 9.
<b>8 CHECK DTC.</b> Read the DTC of body integrated unit and ECM using Subaru Select Monitor.	Is the DTC displayed on screen?	Go to step 10.	Replace the body integrated unit. <Ref. to SL-78, Body Integrated Unit.>
<b>9 CHECK DTC.</b> Read the DTC of body integrated unit and ECM using Subaru Select Monitor.	Is the DTC displayed on screen?	Go to step 10.	Perform the diagnosis for engine system. <Ref. to EN(H4DO)(diag)-66, PROCEDURE, Diagnostics for Engine Starting Failure.>

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<b>10</b> <b>CHECK FREEZE FRAME DATA.</b> Using the Subaru Select Monitor, check the Freeze Frame Data.	Are the data recorded?	Record the data. Go to step 11.	Go to step 11.
<b>11</b> <b>PERFORM DIAGNOSIS.</b> 1) Inspect using the "Diagnostic Procedure with Diagnostic Trouble Code (DTC)". <Ref. to IM(diag)-16, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> 2) Repair the trouble cause. 3) Perform the Clear Memory Mode. 4) Read DTCs again.	Is the DTC displayed on screen?	Inspect using the "Diagnostic Procedure with Diagnostic Trouble Code (DTC)". <Ref. to IM(diag)-16, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Finish the diagnosis.