

# Basic Diagnostic Procedure

## IMMOBILIZER (DIAGNOSTICS)

### 1. Basic Diagnostic Procedure

#### A: PROCEDURE

##### NOTE:

For diagnosis of model with keyless access, refer to “KEYLESS ACCESS WITH PUSH BUTTON START SYSTEM”. <Ref. to KPS(diag)-2, Basic Diagnostic Procedure.>

Step	Check	Yes	No
<b>1</b> <b>CHECK SECURITY INDICATOR LIGHT.</b> 1) Turn the ignition switch to “OFF” or “ACC”. 2) Wait at least 60 seconds.	Does the security indicator light blink?	Go to step 2.	Check the security indicator light circuit. <Ref. to IM(diag)-11, CHECK SECURITY INDICATOR LIGHT CIRCUIT, INSPECTION, Diagnostics Chart for Security Indicator Light.>
<b>2</b> <b>CHECK KEY SWITCH.</b> Remove the key from ignition switch.	Does the security indicator light begin to blink within 1 second after the key is removed?	Go to step 3.	Check the key switch circuit. <Ref. to IM(diag)-13, CHECK KEY SWITCH CIRCUIT, INSPECTION, Diagnostics Chart for Security Indicator Light.>
<b>3</b> <b>CHECK SECURITY INDICATOR LIGHT.</b> Turn the ignition switch to ON.	Does the security indicator light go off?	Go to step 5.	Go to step 4.
<b>4</b> <b>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 7.
<b>5</b> <b>CHECK ENGINE START.</b> Turn the ignition switch to START.	Does the starter operate?	Go to step 6.	Check the LAN communication system. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
<b>6</b> <b>CHECK ENGINE START.</b> Turn the ignition switch to START.	Does the engine start?	Immobilizer system is normal.	Go to step 8.
<b>7</b> <b>CHECK DTC.</b> Read the DTC of body integrated unit using Subaru Select Monitor. <Ref. to IM(diag)-8, Subaru Select Monitor.>	Is the DTC displayed on screen?	Go to step 10.	Replace the body integrated unit. <Ref. to SL-84, Body Integrated Unit.> Register all ignition keys (transponders). Refer to the “REGISTRATION MANUAL FOR IMMOBILIZER”.

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Step		Check	Yes	No
<b>8</b>	<b>CHECK DTC.</b> Read the DTC relating the ECM using the Subaru Select Monitor. <Ref. to IM(diag)-8, Subaru Select Monitor.>	Is the DTC displayed on screen?	Go to step <b>9</b> .	Perform the diagnosis for engine system. <Ref. to EN(H6DO)(diag)-75, PROCEDURE, Diagnostics for Engine Starting Failure.>
<b>9</b>	<b>CHECK FREEZE FRAME DATA.</b> Using the Subaru Select Monitor, check the Freeze Frame Data.	Was the Freeze Frame Data recorded?	Record the data. Go to step <b>10</b> .	Go to step <b>10</b> .
<b>10</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.