

# Basic Diagnostic Procedure

## IMMOBILIZER (DIAGNOSTICS)

### 1. Basic Diagnostic Procedure

#### A: PROCEDURE

Step	Check	Yes	No
1 <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.>
2 <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.>
3 <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.
4 <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.
5 <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.>
6 <b>CHECK ENGINE START.</b> Turn the ignition switch to START.	Does the engine start?	Immobilizer system is normal.	Go to step 8.
7 <b>CHECK DTC.</b> 1) Turn the ignition switch to OFF. 2) Connect the Subaru Select Monitor to data link connector. <Ref. to IM(diag)-8, Subaru Select Monitor.> 3) Turn the ignition switch and Subaru Select Monitor switch to ON. 4) Read the DTC of the body integrated unit.	Is the DTC displayed on screen?	Go to step 10.	Replace the body integrated unit. <Ref. to SL-47, Body Integrated Unit.> Register all ignition keys (transponders). Refer to the "PC application help for Subaru Select Monitor".
8 <b>CHECK DTC.</b> 1) Turn the ignition switch to OFF. 2) Connect the Subaru Select Monitor to data link connector. <Ref. to IM(diag)-8, Subaru Select Monitor.> 3) Turn the ignition switch and Subaru Select Monitor switch to ON. 4) Read the DTC of the ECM.	Is the DTC displayed on screen?	Go to step 9.	Perform the diagnosis for engine system. <Ref. to EN(H4SO)(diag)-70, PROCEDURE, Diagnostics for Engine Starting Failure.>

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<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)-15, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> 2) Repair the trouble cause. 3) Perform the Clear Memory Mode. 4) Read DTC's again.	Is the DTC displayed on screen?	Inspect using the “Diagnostic Procedure with Diagnostic Trouble Code (DTC)”. <Ref. to IM(diag)-15, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Finish the diagnosis.