

Basic Diagnostic Procedure

IMMOBILIZER (DIAGNOSTICS)

1. Basic Diagnostic Procedure

A: PROCEDURE

1. MODELS WITHOUT KEYLESS ACCESS

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
1 CONFIRM NUMBER OF REGISTERED IMMOBILIZER KEY. 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.
2 CHECK SECURITY INDICATOR LIGHT. 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.>
3 CHECK KEY SWITCH. 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.
4 CHECK SECURITY INDICATOR LIGHT. 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.
5 CHECK SECURITY INDICATOR LIGHT. Turn the ignition switch to ON.	Does the security indicator light go off?	Go to step 7.	Go to step 6.
6 CHECK ENGINE START. 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.
7 CHECK ENGINE START. Turn the ignition switch to START.	Does the engine start?	Immobilizer system is normal.	Go to step 9.
8 CHECK DTC. Read the DTC of body integrated unit and ECM and time stamp using Subaru Select Monitor. NOTE: For time stamp, refer to “LAN SYSTEM”. <Ref. to LAN(diag)-6, TIME STAMP, CAUTION, General Description.>	Is the DTC displayed on screen?	Go to step 10.	Replace the body integrated unit. <Ref. to SL-74, Body Integrated Unit.>

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Step	Check	Yes	No
9 CHECK DTC. Read the DTC of body integrated unit and ECM and time stamp using Subaru Select Monitor. NOTE: For time stamp, refer to "LAN SYSTEM". <Ref. to LAN(diag)-6, TIME STAMP, CAUTION, General Description.>	Is the DTC displayed on screen?	Go to step 10.	Perform the diagnosis for engine system. <Ref. to EN(H4DO)(diag)-2, ENGINE, PROCEDURE, Basic Diagnostic Procedure.>
10 CHECK FREEZE FRAME DATA. 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.
11 PERFORM DIAGNOSIS. 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.

2. MODELS WITH KEYLESS ACCESS

NOTE:

For immobilizer diagnosis of model with keyless access, refer to "Keyless Access with Push Button Start System". <Ref. to KPS(diag)-2, Basic Diagnostic Procedure.>