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 IM-MOBILIZER 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-78, Body Integrated Unit.>

Basic Diagnostic Procedure

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(w/o STI)(diag)-2, ENGINE, PROCEDURE, Basic Diagnostic Procedure.> <Ref. to EN(STI)(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.>