1. Basic Diagnostic Procedure

A: PROCEDURE

CAUTION:
• Subaru Select Monitor is required for reading DTC, performing diagnosis, reading current data, customizing and active test (compulsory drive).
• Remove foreign matter (dust, water, oil, etc.) from each control module connector during removal and installation.
• Registration of immobilizer may be needed after the replacement of controller units, etc. For detailed procedure, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".

NOTE:
• To check harness for open or short circuits, shake the suspected trouble spot or connector.
• Check List for Interview <Ref. to LAN(w/o HEV)(diag)-4, Check List for Interview.>

	Step	Check	Yes	No
1	**CHECK PRE-INSPECTION.** Ask the customer when and how the trouble occurred using the interview check list. <Ref. to LAN(w/o HEV)(diag)-4, Check List for Interview.>	Did you interview the customer?	Go to step **2**.	Interview the customer.
2	**BASIC INSPECTION (CAN DIAGNOSTIC IS NOT USED).** Check components which might affect CAN communication problem. <Ref. to LAN(w/o HEV)(diag)-7, INSPECTION WITHOUT USING CAN DIAGNOSTIC, INSPECTION, General Description.>	Is the component that might affect CAN communication problem normal?	Go to step **3**.	Repair or replace each component.
3	**CHECK COMMUNICATION FOR INITIALIZING.** Communicate with the all systems by connecting the Subaru Select Monitor.	Is the communication for initializing finished for all modules?	Go to step **4**.	Check the error of communication for initializing. <Ref. to LAN(w/o HEV)(diag)-10, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Subaru Select Monitor.>
4	**BASIC INSPECTION (CAN DIAGNOSTIC IS USED).** Check components which might affect CAN communication problem. <Ref. to LAN(w/o HEV)(diag)-7, INSPECTION USING CAN DIAGNOSTIC, INSPECTION, General Description.>	Is the component that might affect CAN communication problem normal?	Go to step **5**.	Repair or replace each component.
5	**CHECK DTC.** 1) Start the engine and read all DTCs. NOTE: When the engine does not start, perform the diagnosis for the engine start malfunction. <Ref. to EN(H4DO w/o HEV)(diag)-73, Diagnostics for Engine Starting Failure.> 2) Record all DTCs, time stamp and freeze frame data. NOTE: For time stamp, refer to "TIME STAMP" of General Description. <Ref. to LAN(w/o HEV)(diag)-6, TIME STAMP, CAUTION, General Description.>	Is DTC U**** displayed on Subaru Select Monitor?	Go to step **6**.	Go to step **7**.

	Step	Check	Yes	No
6	**CHECK DTC.** 1) Perform the inspection using the DTC check sheet. <Ref. to LAN(w/o HEV)(diag)-66, CHECK USING THE DTC CHECK SHEET, LIST, List of Diagnostic Trouble Code (DTC).> 2) Using the Subaru Select Monitor, read all DTCs.	Is DTC U**** displayed on Subaru Select Monitor?	Go to step **8**.	Go to step **7**.
7	**PERFORM GENERAL DIAGNOSTICS.** Inspect using the “General Diagnostic Table”. <Ref. to LAN(w/o HEV)(diag)-120, General Diagnostic Table.>	Is result of inspection OK?	LAN system is normal.	Go to step **8**.
8	**PERFORM DIAGNOSIS.** 1) Correct the cause of trouble. 2) Perform the Clear Memory Mode. <Ref. to LAN(w/o HEV)(diag)-26, OPERATION, Clear Memory Mode.> 3) Read the DTC. <Ref. to LAN(w/o HEV)(diag)-25, OPERATION, Read Diagnostic Trouble Code (DTC).>	Is DTC displayed on Subaru Select Monitor?	Repeat step 8 until DTC is not shown.	Finish the diagnosis.