1. Basic Diagnostic Procedure

A: PROCEDURE

	Step	Check	Yes	No
1	**CHECK PRE-INSPECTION.** Ask the customer when and how the trouble occurred using the interview check list. <Ref. to HEV(diag)-5, Check List for Interview.>	Was the customer interview performed?	Go to step **2**.	Perform customer interview.
2	**CHECK HYBRID FAIL LAMP.** Check the hybrid fail lamp.	Does the hybrid fail lamp illuminate after starting the engine?	Go to step **3**.	Perform appropriate inspection using Diagnostics with Phenomenon. <Ref. to HEV(diag)-341, Diagnostics with Phenomenon.>
3	**CHECK COMBINATION METER.** Using the Subaru Select Monitor, read DTC of combination meter.	Is either DTC U0073, U0293, or U0594 detected? (current malfunction)	Perform the inspection according to the diagnosis for LAN system. <Ref. to LAN(HEV)(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>	Go to step **4**.
4	**CHECK DTC.** Using the Subaru Select Monitor, read DTC of the hybrid powertrain control module. NOTE: • Refer to “Read Diagnostic Trouble Code (DTC)” for detailed operation procedure. <Ref. to HEV(diag)-24, OPERATION, Read Diagnostic Trouble Code (DTC).> • If the communication function of the Subaru Select Monitor does not operate properly, check the communication circuit. <Ref. to HEV(diag)-18, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Subaru Select Monitor.>	Is DTC detected? (current malfunction)	Record DTC, time stamp, and freeze frame data, then perform inspection using “Diagnostic Procedure with Diagnostic Trouble Code (DTC)”. <Ref. to HEV(diag)-74, List of Diagnostic Trouble Code (DTC).> After repair, Go to step **10**. NOTE: • For the time stamp, refer to LAN section. <Ref. to LAN(HEV)(diag)-6, TIME STAMP, CAUTION, General Description.> • Depending on DTCs, time stamp may not be stored.	Go to step **5**.
5	**CHECK CURRENT DATA.** Confirm the current data of hybrid powertrain control system, the value of «Hybrid Fail Lamp Signal (DMCU)» using the Subaru Select Monitor. <Ref. to HEV(diag)-40, HYBRID POWERTRAIN CONTROL SYSTEM, OPERATION, Read Current Data.>	Does the value show «ON»?	Go to step **6**.	Go to step **7**.

	Step	Check	Yes	No
6	**CHECK DTC.** Read the DTC of the drive motor control system using the Subaru Select Monitor. NOTE: • Refer to “Read Diagnostic Trouble Code (DTC)” for detailed operation procedure. <Ref. to HEV(diag)-24, OPERATION, Read Diagnostic Trouble Code (DTC).> • If the communication function of the Subaru Select Monitor does not operate properly, check the communication circuit. <Ref. to HEV(diag)-18, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Subaru Select Monitor.>	Is DTC detected? (current malfunction)	Record DTC, time stamp, and freeze frame data, then perform inspection using “Diagnostic Procedure with Diagnostic Trouble Code (DTC)”. <Ref. to HEV(diag)-74, List of Diagnostic Trouble Code (DTC).> After repair, Go to step **10**. NOTE: • For the time stamp, refer to LAN section. <Ref. to LAN(HEV)(diag)-6, TIME STAMP, CAUTION, General Description.> • Depending on DTCs, time stamp may not be stored.	Replace DMCM. <Ref. to CVT(TH58A)-157, Drive Motor Control Module.>
7	**CHECK CURRENT DATA.** Confirm the current data of hybrid powertrain control system, the value of «Hybrid Fail Lamp Signal (BECU)» using the Subaru Select Monitor. <Ref. to HEV(diag)-40, HYBRID POWERTRAIN CONTROL SYSTEM, OPERATION, Read Current Data.>	Does the value show «ON»?	Go to step **8**.	Go to step **9**.
8	**CHECK DTC.** Read DTC of the battery energy control system using the Subaru Select Monitor. NOTE: • Refer to “Read Diagnostic Trouble Code (DTC)” for detailed operation procedure. <Ref. to HEV(diag)-24, OPERATION, Read Diagnostic Trouble Code (DTC).> • If the communication function of the Subaru Select Monitor does not operate properly, check the communication circuit. <Ref. to HEV(diag)-18, COMMUNICATION FOR INITIALIZING IMPOSSIBLE, Subaru Select Monitor.>	Is DTC detected? (current malfunction)	Record DTC, time stamp, and freeze frame data, then perform inspection using “Diagnostic Procedure with Diagnostic Trouble Code (DTC)”. <Ref. to HEV(diag)-74, List of Diagnostic Trouble Code (DTC).> After repair, Go to step **10**. NOTE: • For the time stamp, refer to LAN section. <Ref. to LAN(HEV)(diag)-6, TIME STAMP, CAUTION, General Description.> • Depending on DTCs, time stamp may not be stored.	Replace the high voltage battery. <Ref. to HEV-17, High Voltage Battery.>

	Step	Check	Yes	No
9	**CHECK HYBRID FAIL LAMP.** 1) Turn the ignition switch to OFF. 2) Wait at least 30 seconds. 3) Turn the ignition switch to ON.	Does the hybrid fail lamp illuminate?	Replace the HPCM. <Ref. to HEV-37, Hybrid Powertrain Control Module.>	It is possible that temporary poor communication occurs.
10	**PERFORM DIAGNOSIS.** 1) Perform the Clear Memory Mode. <Ref. to HEV(diag)-25, Clear Memory Mode.> 2) Perform the Inspection Mode or Drive Cycle. <Ref. to HEV(diag)-27, Inspection Mode.> <Ref. to HEV(diag)-32, Drive Cycle.>	Is DTC displayed on Subaru Select Monitor?	Inspect using “Diagnostic Procedure with Diagnostic Trouble Code (DTC)”. <Ref. to HEV(diag)-74, List of Diagnostic Trouble Code (DTC).>	Finish the diagnosis.