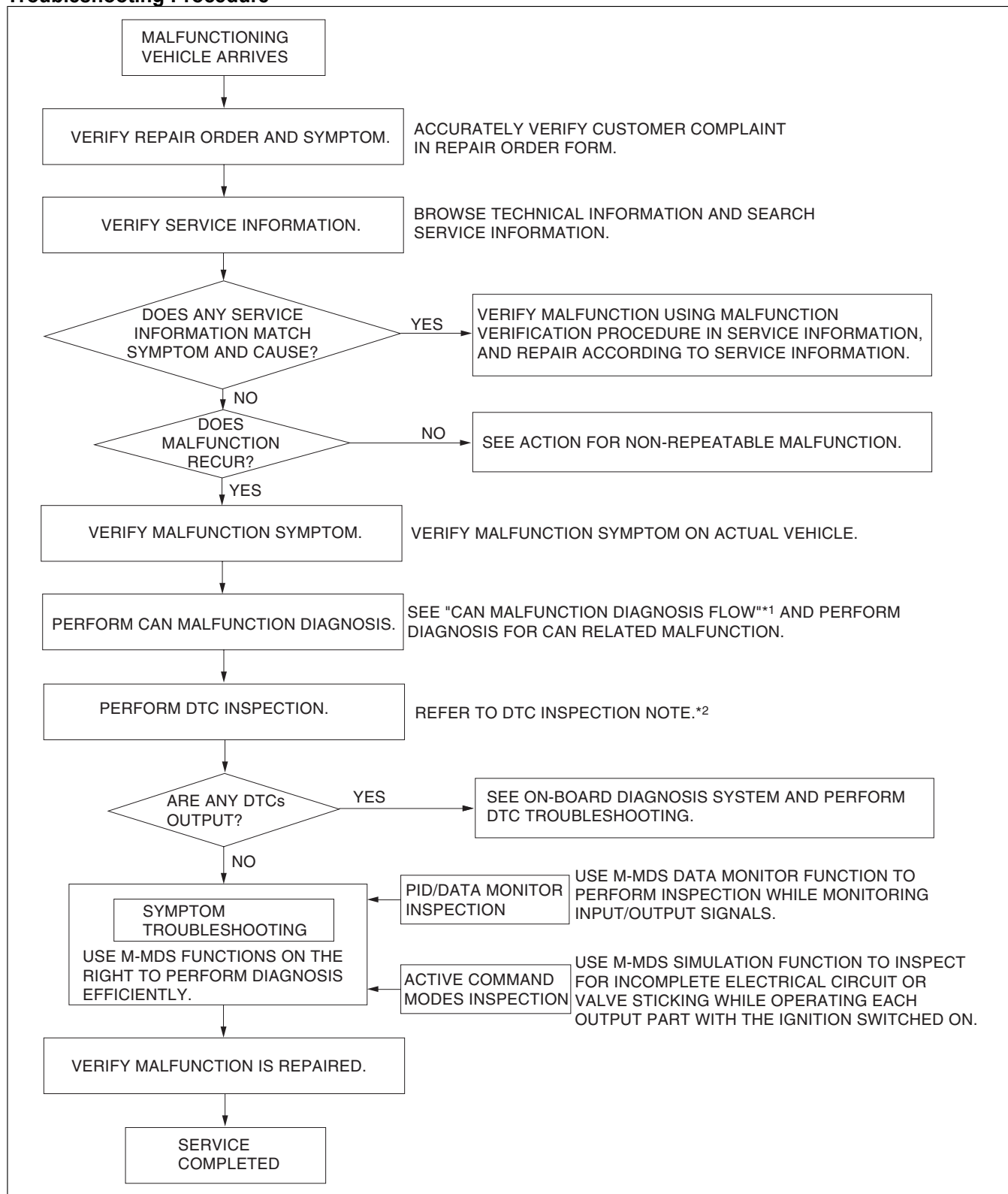

FOREWORD [IMMOBILIZER SYSTEM]

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- If there is any vehicle malfunction complaint lodged by a customer, perform malfunction diagnosis according to the troubleshooting procedure.
- Due to the possibility that the engine cannot be started because signal transmission between the remote transmitter and the vehicle is obstructed, do not allow the following items to contact the remote transmitter.
 - Any metallic object
 - Spare keys or other keys for immobilizer system
 - Device such as a mobile phone which generates radio waves.

Troubleshooting Procedure



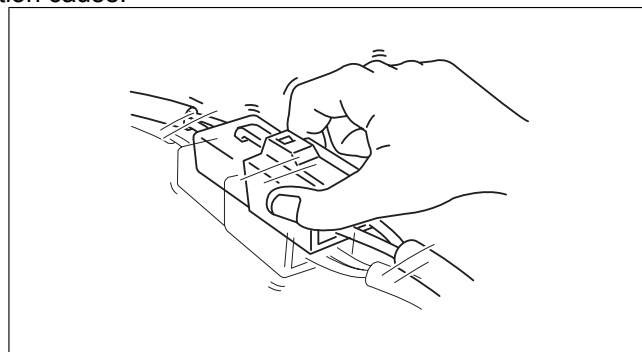
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*1 : CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (L.H.D.)]/CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (R.H.D.)]/CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [SKYACTIV-D 2.2 (L.H.D.)]/CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [SKYACTIV-D 2.2 (R.H.D.)]

*2 : DTC Inspection Note

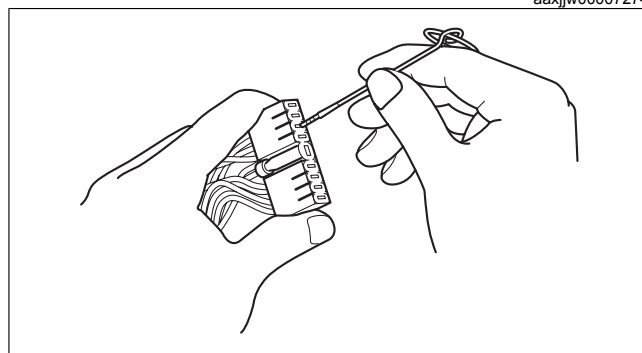
Action for Non-repeatable Malfunction

- If the malfunction does not recur, verify the malfunction cause by performing the following actions:
 - Based on the repair order form, attempt to drive the vehicle or perform tests to replicate the malfunction, record the data at that time, and detect the malfunction cause.
 - Shake the wiring harness or connector of the electrical component which is suspected to be the cause of the malfunction, and inspect for malfunction or occurrence of any DTCs.



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- Inspect the female terminals on the connector of the electric component which is suspected to be the cause of the malfunction for poor connection.



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DTC Inspection Note

- When there is a malfunction in the immobilizer system, DTCs are recorded in the start stop unit and PCM.
- The DTCs stored in the start stop unit can be verified using the flashing pattern of the security indicator light and M-MDS.
- If immobilizer system DTCs are not recorded even if the engine cannot be started, perform symptom troubleshooting. (See NO.3 WILL NOT CRANK [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NO.9 WILL NOT CRANK [SKYACTIV-D 2.2].)