FOREWORD id080200080300

• If there is any vehicle malfunction complaint lodged by a customer, perform malfunction diagnosis according to the troubleshooting procedure.

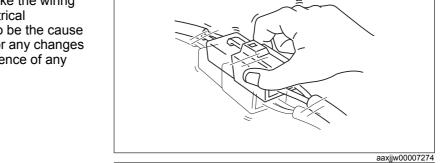
Troubleshooting Procedure MAI FUNCTIONING **VEHICLE ARRIVES** ACCURATELY VERIFY CUSTOMER COMPLAINT VERIEV REPAIR ORDER AND SYMPTOM IN REPAIR ORDER FORM. BROWSE TECHNICAL INFORMATION AND SEARCH VERIFY SERVICE INFORMATION. SERVICE INFORMATION. DOES ANY SERVICE VERIFY MALFUNCTION USING MALFUNCTION YES INFORMATION MATCH VERIFICATION PROCEDURE IN SERVICE INFORMATION. SYMPTOM AND CAUSE? AND REPAIR ACCORDING TO SERVICE INFORMATION. Ų NO DOES NO SEE ACTION FOR NON-REPEATABLE MALFUNCTION. **MALFUNCTION** RECUR? YES VERIFY MALFUNCTION SYMPTOM. VERIFY MALFUNCTION SYMPTOM ON ACTUAL VEHICLE. SEE "CAN MALFUNCTION DIAGNOSIS FLOW"*1 AND PERFORM PERFORM CAN MALFUNCTION DIAGNOSIS. DIAGNOSIS FOR CAN RELATED MALFUNCTION. PERFORM DTC INSPECTION. INSPECT FOR ANY DTCs USING M-MDS. SEE ON-BOARD DIAGNOSIS SYSTEM AND PERFORM YES ARE ANY DTCs DTC TROUBLESHOOTING. **OUTPUT?** NO **SYMPTOM** USE M-MDS DATA MONITOR FUNCTION TO TROUBLESHOOTING PID/DATA MONITOR PERFORM INSPECTION WHILE MONITORING INSPECTION USE M-MDS FUNCTIONS ON THE INPUT/OUTPUT SIGNALS. RIGHT TO PERFORM DIAGNOSIS EFFICIENTLY. VERIFY MALFUNCTION IS REPAIRED. SERVICE COMPLETED

*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

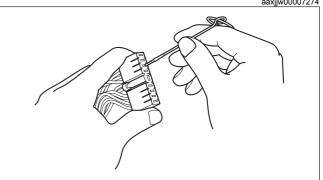
[SKYACTIV-D 2.2 (L.H.D.)], CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [SKYACTIV-D 2.2 (R.H.D.)]

Action for non-repeatable malfunction

- If the malfunction does not recur, verify the malfunction cause by performing the following actions:
 - Verify that a DTC has been recorded in the memory.
 - Based on the repair order form, attempt to drive the vehicle or perform tests to replicate the malfunction, record the data (such as CAN circuit voltage) at that time, and detect the malfunction cause.
 - Refer to [Determining Open Circuit Location]
 based on the recorded DTC, shake the wiring
 harness or connector of the electrical
 component which is suspected to be the cause
 of the malfunction, and inspect for any changes
 in CAN system voltage or occurrence of any
 DTCs.



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



am3zzw00011442

Outline

- The OBD (on-board diagnostic) system has the following functions:
 - Malfunction detection function: Detects malfunctions in the air bag system and outputs DTCs (Diagnostic Trouble Codes).
 - PID/data monitor function: Reads out specific input/output signals and the system status.
- DTCs can be read/cleared using the M-MDS.

Note

• Use the M-MDS to verify DTCs because the DTCs displayed by the air bag system warning light are reference information only.