FOREWORD [FULL-AUTO AIR CONDITIONER]

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• 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. YES SEE ON-BOARD DIAGNOSIS SYSTEM AND PERFORM ARE ANY DTCs DTC TROUBLESHOOTING. **OUTPUT?** NO USE M-MDS DATA MONITOR FUNCTION TO PID/DATA MONITOR PERFORM INSPECTION WHILE MONITORING **SYMPTOM** INSPECTION INPUT/OUTPUT SIGNALS. **TROUBLESHOOTING** USE M-MDS A/C OPERATION CHECK MODE USE M-MDS FUNCTIONS ON THE FUNCTION TO INSPECT FOR INCOMPLETE A/C OPERATION RIGHT TO PERFORM DIAGNOSIS ELECTRICAL CIRCUIT OR VALVE STICKING WHILE CHECK MODE EFFICIENTLY. OPERATING EACH OUTPUT PART WITH THE **INSPECTION** IGNITION SWITCHED ON. 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:
 - 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.





