FOREWORD [LASER SENSOR]

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

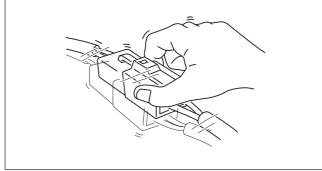
Troubleshooting Procedure MALFUNCTIONING **VEHICLE ARRIVES** ACCURATELY VERIFY CUSTOMER COMPLAINT VERIEV REPAIR ORDER AND SYMPTOM IN REPAIR ORDER FORM. BROWSE TECHNICAL INFORMATION AND SEARCH VERIFY SERVICE INFORMATION. SERVICE INFORMATION. DOES ANY SERVICE VERIFY MALFUNCTION USING MALFUNCTION YES INFORMATION MATCH VERIFICATION PROCEDURE IN SERVICE INFORMATION. SYMPTOM AND CAUSE? AND REPAIR ACCORDING TO SERVICE INFORMATION. NO DOES **MALFUNCTION** SEE ACTION FOR NON-REPEATABLE 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 ARE ANY DTCs SEE ON-BOARD DIAGNOSIS SYSTEM AND PERFORM **OUTPUT?** DTC TROUBLESHOOTING. NO USE M-MDS DATA MONITOR FUNCTION TO PID/DATA MONITOR PERFORM INSPECTION WHILE MONITORING SYMPTOM **INSPECTION** INPUT/OUTPUT SIGNALS. TROUBLESHOOTING USE M-MDS FUNCTIONS ON THE RIGHT TO PERFORM DIAGNOSIS USE M-MDS SIMULATION FUNCTION TO ACTIVE COMMAND INSPECT FOR INCOMPLETE ELECTRICAL EFFICIENTLY. MODES INSPECTION CIRCUIT OR VALVE STICKING WHILE OPERATING EACH OUTPUT PART WITH THE 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

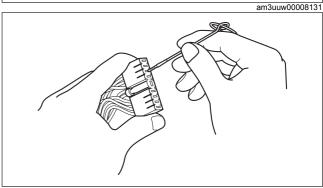
[SKYACTIV-D 2.2 (L.H.D.)], CONTROLLER AREA NETWORK (CAN) MALFUNCTION DIAGNOSIS FLOW [SKYACTIV-D 2.2 (R.H.D.)]

Action for non-repeatable malfunction

- If the malfunction does not recur, verify the malfunction cause by performing the following actions:
 - 1. Verify that a DTC has been recorded in the memory using the M-MDS. (See ON-BOARD DIAGNOSIS [LASER SENSOR].)
 - 2. Perform a simulation test in the simulation mode based on the repair order form, record the data at that time, and detect the malfunction cause.
 - 3. Shake the wiring harness or connector of the electrical component which is suspected to be the cause of the malfunction, and inspect for the occurrence of any malfunction or DTCs.



4. Inspect the female terminals for poor connection.



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