FOREWORD [REAR VEHICLE MONITORING SYSTEM]

id0003-7378400

- When performing an asterisked (*) troubleshooting inspection, first verify the damage and connection status of
 the connectors and terminals, then perform the inspection while shaking the wiring harness to discover whether
 poor contact points are the cause of an intermittent malfunction. If there is a malfunction in the connectors or
 terminals, securely connect, repair, or perform replacement.
- When the system component parts are replaced/removed/installed, the rear vehicle monitoring configuration and
 rear vehicle monitoring radar aiming for the radar sensor must be performed. Perform the relevant initial setting
 servicing referring to the corresponding removal/installation procedure.
- The rear vehicle monitoring system is a control device which monitors the vehicle's rear for approaching vehicles
 using radio waves emitted from the radar sensor which reflect off the detected vehicle and return to the radio
 sensor part of the control module. The rear vehicle monitoring system may not operate normally under the
 following conditions:

Effects of weather conditions

Vehicle is driven in rain, snow, or fog.

Effects of driving conditions

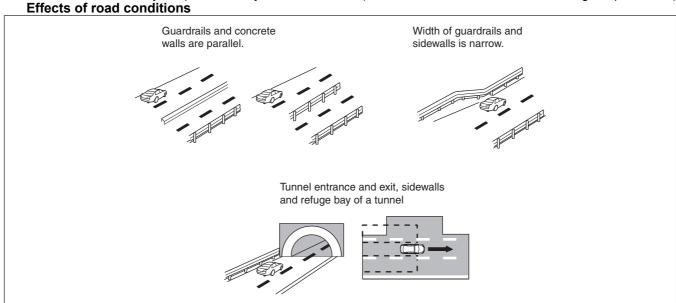
- Vehicle does not approach even though the vehicle enters the detection area from the rear of the detecting vehicle
- Vehicles which are traveling at nearly the same speed as the detecting vehicle for long periods
- Vehicles in an adjacent lane on a road with a wider lane width (detection area for radar sensor is set for highway width)

Effects of vehicle equipment conditions

- Rear bumper around radar sensor is deformed.
- Ice, snow or dirt is adhering to the rear bumper radar sensors.

Effects of vehicle approaching from the rear

- Small motorcycle
- Vehicles with body shapes that may not reflect radar (unloaded trailers with low vehicle height, sports cars)



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Troubleshooting Procedure MALFUNCTIONING **VEHICLE ARRIVES** ACCURATELY VERIFY CUSTOMER COMPLAINT VERIFY 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 NO 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. Is there a DTC for the currently Are any DTCs displayed? occurring malfunction? NO Is displayed DTC NO U3000:4B or YES U3000:97? Perform DTC Perform DTC troubleshooting YES troubleshooting Is the malfunction symptom caused by the weather, driving, vehicle servicing, and road conditions, or the vehicle approaching from System is normal. the rear? Explain to the customer that the system may not System is normal. NO operate under these Explain to the customer that the conditions system stops and the RVM warning light (amber) illuminates Perform the rear vehicle under bad weather conditions or monitoring radar aiming when the temperature procedure *2 temporarily increases Has the malfunction NO symptom been eliminated? Replace the rear vehicle monitoring control module and perform the radar aiming *2 *3 YES Complete

- *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 2.5 (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 : REAR VEHICLE MONITORING RADAR AIMING
- *3: REAR VEHICLE MONITORING CONTROL MODULE REMOVAL/INSTALLATION