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2020.0 DEFENDER (LE), 413-09

WARNING DEVICES (G2400998)

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PRINCIPLES OF OPERATION

For a detailed description of the side obstacle detection system, refer to the relevant Description and Operation section in the workshop manual. REFER to: [Warning Devices](#) (413-09 Warning Devices, Description and Operation).

INSPECTION AND VERIFICATION

 CAUTION:

Diagnosis by substitution from a donor vehicle is **NOT** acceptable. Substitution of control modules does not guarantee confirmation of a fault, and may also cause additional faults in the vehicle being tested and/or the donor vehicle.

 NOTES:

- If a control module or a component may be at fault and the vehicle remains under manufacturer warranty, refer to the Warranty Policy and Procedures manual, or determine if any prior approval program is in operation, prior to the installation of a new module/component.
- When performing voltage or resistance tests, always use a digital multimeter that has the resolution ability to view 3 decimal places. For example, on the 2 volts range can measure 1mV or 2 K Ohm range can measure 1 Ohm. When testing resistance always take the resistance of the digital multimeter leads into account.
- Check and rectify basic faults before beginning diagnostic routines involving pinpoint tests.

1. Verify the customer concern
2. Visually inspect for obvious signs of damage and system integrity

Visual Inspection

MECHANICAL	ELECTRICAL
■ Damage or modification of door mirrors ■ Mud or sleet contamination around rear bumper area ■ Damage or modification of rear bumper	■ Fuses ■ Wiring harnesses and connectors ■ Side obstacle detection control module left/right

3. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step

4. If the cause is not visually evident, verify the symptom and refer to the Symptom Chart, alternatively check for Diagnostic Trouble Code(s) (DTC)s and refer to the DTC Index
5. Check JLR claims submission system for open campaigns. Refer to the corresponding bulletins and SSMs which may be valid for the specific customer complaint and complete the recommendations as required

SYMPTOM CHART

SYMPTOM	POSSIBLE CAUSES	ACTION
Side obstacle detection system inoperative	■ Road speed too low ■ Trailer connected ■ Reverse, park or neutral gear selected	■ No fault - Side obstacle detection is active at road speeds above approximately 16km/h (10mph) ■ No fault - Side obstacle detection is inhibited when a trailer is connected ■ No fault - Side obstacle detection is available only when a forward gear is selected
"Blind Spot Monitoring Blocked" - message displayed in message center	■ Side obstacle detection sensors obstructed (by mud, snow, etc)	■ Clean the areas around the side obstacle detection control modules (the rear bumper, to the rear of the rear wheels)
"Blind Spot Monitoring not Available" - message displayed in message center	■ Side obstacle detection system fault	 NOTE: Side obstacle detection is disabled for both sides of the vehicle when a fault has been detected. ■ Using the Jaguar Land Rover approved diagnostic equipment, check the left/right side obstacle detection control module for related DTCs and refer to the relevant DTC index
"Clear Windshield Driver Assistance Feature Performance Limited" - message displayed in message center	■ Image processing module A camera obstructed	■ Inspect the external area of the windshield directly in front of the image control module A for signs of obstruction or windshield damage. Clean, repair or replace as required, clear the Diagnostic Trouble Code(s) and retest ■ If the fault persists, inspect the image processing module A for any lens damage or obstructions, clean, repair or replace as required. Clear the DTCs and retest ■ If the fault persists, using the Jaguar Land Rover approved diagnostic equipment refer to the guided flow for Driver Assistance Systems

SYMPTOM	POSSIBLE CAUSES	ACTION
"Emergency Braking and/or Emergency Steering not Available" - message displayed in message center	- Driver assistance domain controller system fault - Image processing module A system fault	- Using the Jaguar Land Rover approved diagnostic equipment, check the driver assistance domain controller first for related DTCs and refer to the relevant DTC index - Using the Jaguar Land Rover approved diagnostic equipment, check the image processing module A for related DTCs and refer to the relevant DTC index - If the fault persists, using the Jaguar Land Rover approved diagnostic equipment refer to the guided flow for Driver Assistance Systems
"Steering Assistance not Available" - message displayed in message center	- Driver assistance domain controller system fault - Image processing module A system fault	- Using the Jaguar Land Rover approved diagnostic equipment, check the driver assistance domain controller first for related DTCs and refer to the relevant DTC index - Using the Jaguar Land Rover approved diagnostic equipment, check the image processing module A for related DTCs and refer to the relevant DTC index - If the fault persists, using the Jaguar Land Rover approved diagnostic equipment refer to the guided flow for Driver Assistance Systems
"Adaptive Mode not Available" - message displayed in message center	- Driver assistance domain controller system fault - Image processing module A system fault	- Using the Jaguar Land Rover approved diagnostic equipment, check the driver assistance domain controller first for related DTCs and refer to the relevant DTC index - Using the Jaguar Land Rover approved diagnostic equipment, check the image processing module A for related DTCs and refer to the relevant DTC index - If the fault persists, using the Jaguar Land Rover approved diagnostic equipment refer to the guided flow for Driver Assistance Systems
"Take Control, Cruise Cancelled" - message displayed in message center	- Driver assistance domain controller system fault - Image processing module A system fault	- Using the Jaguar Land Rover approved diagnostic equipment, check the driver assistance domain controller first for related DTCs and refer to the relevant DTCs index - Using the Jaguar Land Rover approved diagnostic equipment, check the image processing module A for related DTCs and refer to the relevant DTC index - If the fault persists, using the Jaguar Land Rover approved diagnostic equipment refer to the guided flow for Driver Assistance Systems

DTC INDEX

For a list of DTCs that could be set on this vehicle, please refer to Section 100-00. REFER to: [Diagnostic Trouble Code Index - DTC: Side Obstacle Detection Control Module - Left/Right \(SODL/SODR\)](#) (100-00 General Information, Description and Operation).