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2020.0 DEFENDER (LE), 417-01

EXTERIOR LIGHTING

HEADLAMP LEVELING (G2401018)

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PRINCIPLE OF OPERATION

For a detailed description of the headlamp leveling system and operation, refer to the relevant description and operation section of the workshop manual. REFER to: [Exterior Lighting](#) (417-01 Exterior Lighting, 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 checked and/or the donor vehicle.

 NOTES:

- If the control module or a component may be at fault and the vehicle remains under manufacturer warranty, refer to the Warranty Policy and Procedures manual (section B1.2), 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 accurate to three decimal places, and with an up-to-date calibration certificate. 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

MECHANICAL	ELECTRICAL
■ Headlamp leveling motor(s) and linkage(s) condition and installation ■ Lighting control switch and installation ■ Steering column multifunction switch and installation	■ Fuses ■ Wiring harness ■ Loose or corroded connector(s) ■ Battery junction box ■ Body control module ■ Headlamp control module ■ Headlamp power modules ■ ABS control module ■ Integrated suspension control module ■ LIN circuits ■ CAN circuits

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 Codes (DTCs) 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 CAUSE	ACTION
Headlamp leveling system inoperative	■ Fuse(s) blown ■ Leveling motor /linkage fault ■ Headlamp leveling circuit fault ■ Air suspension system fault	Check the fuse(s) condition. Check the headlamp leveling motor and linkage condition. Check the headlamp leveling circuit. Refer to the electrical guides. Check for DTCs indicating headlamp leveling circuit, suspension system fault(s) or CAN system fault
Headlamp alignment incorrect		

DTC INDEX

For a list of diagnostic trouble codes (DTCs) that could be set on this vehicle, please refer to Section 100-00. REFER to:(100-00 General Information)

[Diagnostic Trouble Code Index - DTC: Body Control Module \(BCM\)](#) (Description and Operation),

[Diagnostic Trouble Code Index - DTC: Chassis Control Module \(CHCM\)](#) (Description and Operation).

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