

PUBLISHED: 01-NOV-2019
2020.0 DEFENDER (LE), 417-01

EXTERIOR LIGHTING

AUTOLAMPS (G2401022)

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PRINCIPLE OF OPERATION

For a detailed description of the exterior lighting 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.
- Prior to carrying out fault diagnosis of the trailer lamp system, verify the operation of the towing vehicle lighting system with the trailer lighting plug(s) disconnected from the vehicle socket(s)

1. Verify the customer concern

2. Visually inspect for obvious signs of mechanical or electrical damage

Visual Inspection

MECHANICAL	ELECTRICAL
■ Lighting control switch and installation ■ Rain/Light sensor condition and installation ■ Wiper control switch and installation	■ Fuses ■ Relays ■ Wiring harness ■ Loose or corroded connector(s) ■ Battery junction box ■ Body control module

MECHANICAL	ELECTRICAL
	■ Headlamp control module ■ Rain/Light sensor 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 relevant 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
Autolamps not operating as expected	■ Rain/light sensor fault	■ Check the rain/light sensor for correct installation and rectify as required ■ Using the Jaguar Land Rover approved diagnostic equipment, perform the Rain Sensor Calibration routine
Side and headlamp(s) inoperative when the automatic headlamp switch option is selected	■ Fuse(s) blown ■ Lighting control switch fault ■ Wiper control switch fault ■ Circuit fault ■ Rain /Light sensor fault ■ LIN circuit fault	Check the fuse(s). Check the lighting and wiper control switch functions. Check the automatic headlamp circuit. Refer to the electrical guides. Check for DTCs indicating a rain/light sensor or LIN system fault
Automatic headlamp switch illumination inoperative	■ Fuse(s) blown	Check the fuse(s). Check the lighting control switch function. Check the automatic headlamp relay circuit. Refer to the electrical guides. Check for DTCs indicating an automatic headlamp fault

SYMPTOM	POSSIBLE CAUSE	ACTION
	■ Lighting control switch fault ■ Circuit fault ■ Automatic headlamp relay fault	

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: [Diagnostic Trouble Code Index - DTC: Body Control Module \(BCM\)](#) (100-00 General Information, Description and Operation).

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