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MULTIFUNCTION ELECTRONIC MODULES

REMOTE FUNCTION ACTUATOR (G2401031)

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PRINCIPLES OF OPERATION

For a detailed description of the keyless vehicle system, refer to the relevant description and operation sections in the workshop manual.

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

MECHANICAL	ELECTRICAL
■ Misaligned door(s), hood or luggage compartment lid ■ Door latch(s) ■ Actuating rod(s) ■ Exterior door handle(s) ■ Interior door handle(s) ■ Door lock cylinder ■ Cable(s) ■ Door mirror - Power fold ■ Auto stop/start switch ■ Luggage compartment lid exterior release switch	■ Fuse(s) ■ Wiring harness ■ Electrical connector(s) ■ Door lock actuator(s) ■ Remote transmitter batteries ■ Startup battery ■ Remote transmitter (Key-fob or smart key) ■ Door lock switch(s) ■ Body control module (BCM) ■ Radio frequency (RF) receiver ■ Immobilizer antenna unit (IAU) ■ Remote Function Actuator (RFA) ■ Instrument cluster (IC) ■ Auto stop/start switch ■ Hazard warning lamp switch ■ Low frequency antenna (LF antenna)

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, 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

DTC INDEX

For a list of diagnostic trouble codes that could be set on this vehicle, please refer to Section 100-00. REFER to: [Diagnostic Trouble Code Index - DTC: Remote Function Actuator \(RFA\)](#) (100-00 General Information, Description and Operation).