

PUBLISHED: 06-DEC-2019
2020.0 DEFENDER (LE), 417-02

INTERIOR LIGHTING (G2342558)

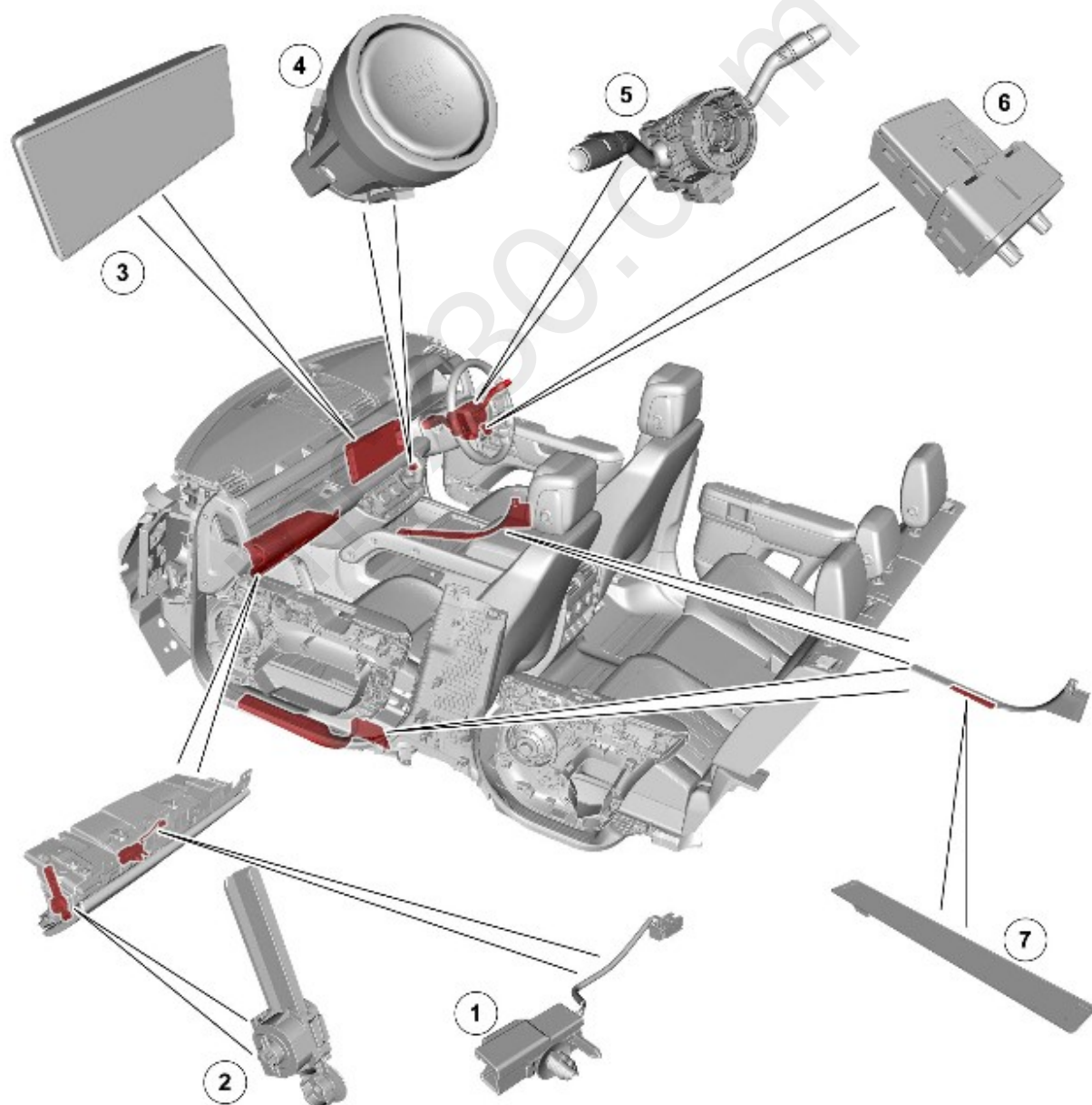
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COMPONENT LOCATION

COMPONENT LOCATION - 1 OF 5

 NOTES:

- Vehicle with 5 doors is shown, vehicle with 3 doors is similar.
- Right Hand Drive (RHD) vehicle is shown, Left Hand Drive (LHD) vehicle is similar.



ITEM	DESCRIPTION
1	Glovebox lamp
2	Glovebox switch assembly
3	Touch Screen (FCDIM)
4	Auto stop/start switch
5	Steering column multifunction switch
6	Auxiliary lighting switch
7	Door treadplate illumination Light Emitting Diodes (LEDs) (quantity 2)

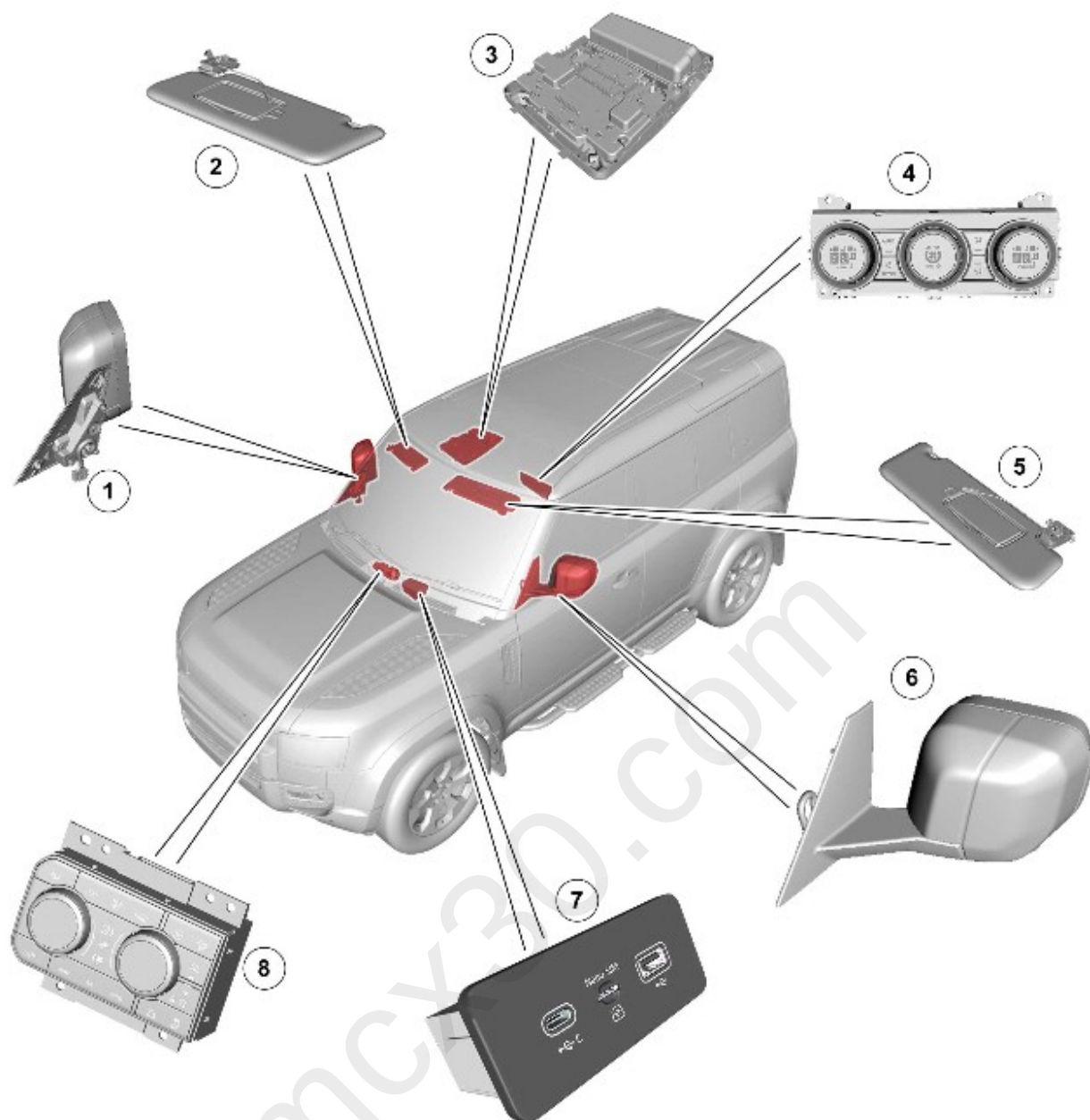
COMPONENT LOCATION – 2 OF 5



NOTES:

- Vehicle with 5 doors is shown, vehicle with 3 doors is similar.
- RHD vehicle is shown, LHD vehicle is similar.

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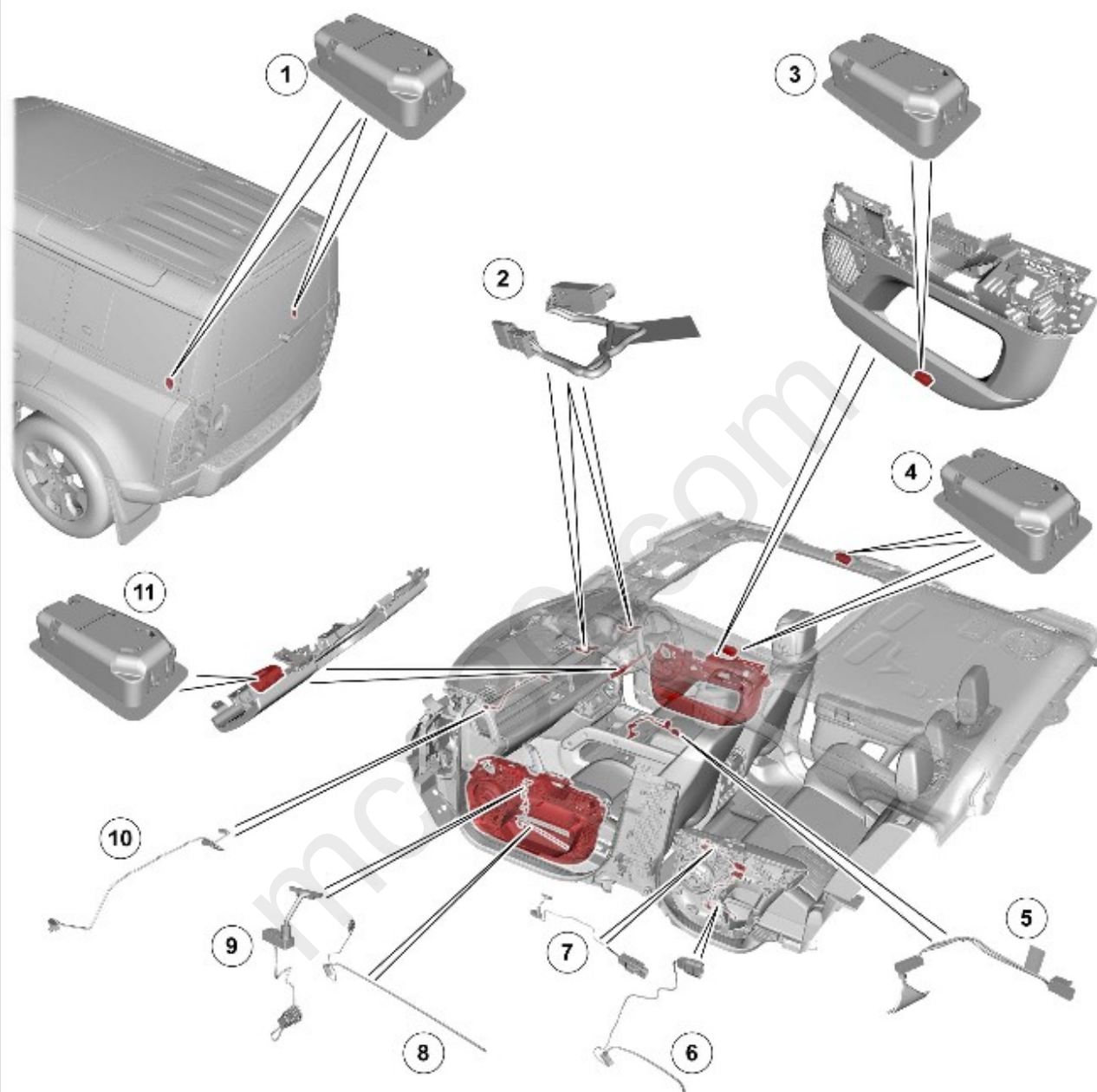
E247442

ITEM	DESCRIPTION
1	Approach lamp - Driver door mirror
2	Right sun visor - Vanity mirror lamp
3	Front overhead console
4	Rear Integrated Control Panel (FCIMB) (if equipped)
5	Left sun visor - Vanity mirror lamp
6	Approach lamp - Passenger door mirror
7	Front portable media interface panel
8	Integrated Control Panel (FCIM)

COMPONENT LOCATION - 3 OF 5 - VEHICLE WITH 5 DOORS

NOTE:

RHD vehicle is shown, LHD vehicle is similar.



E247443

ITEM	DESCRIPTION
1	Loadspace lamp (quantity 2)
2	Instrument panel lamp - Short (quantity 2)
3	Puddle lamp (quantity 4)
4	Rear interior lamp (quantity 2)

ITEM	DESCRIPTION
5	Floor console lamp
6	Rear door ambient lighting LEDs (quantity 2)
7	Rear door handle ambient lighting LEDs (quantity 2)
8	Front door ambience lighting LEDs (quantity 2)
9	Front door handle ambience lighting LEDs (quantity 2)
10	Instrument panel lamp - Long
11	Footwell lamp (quantity 2)

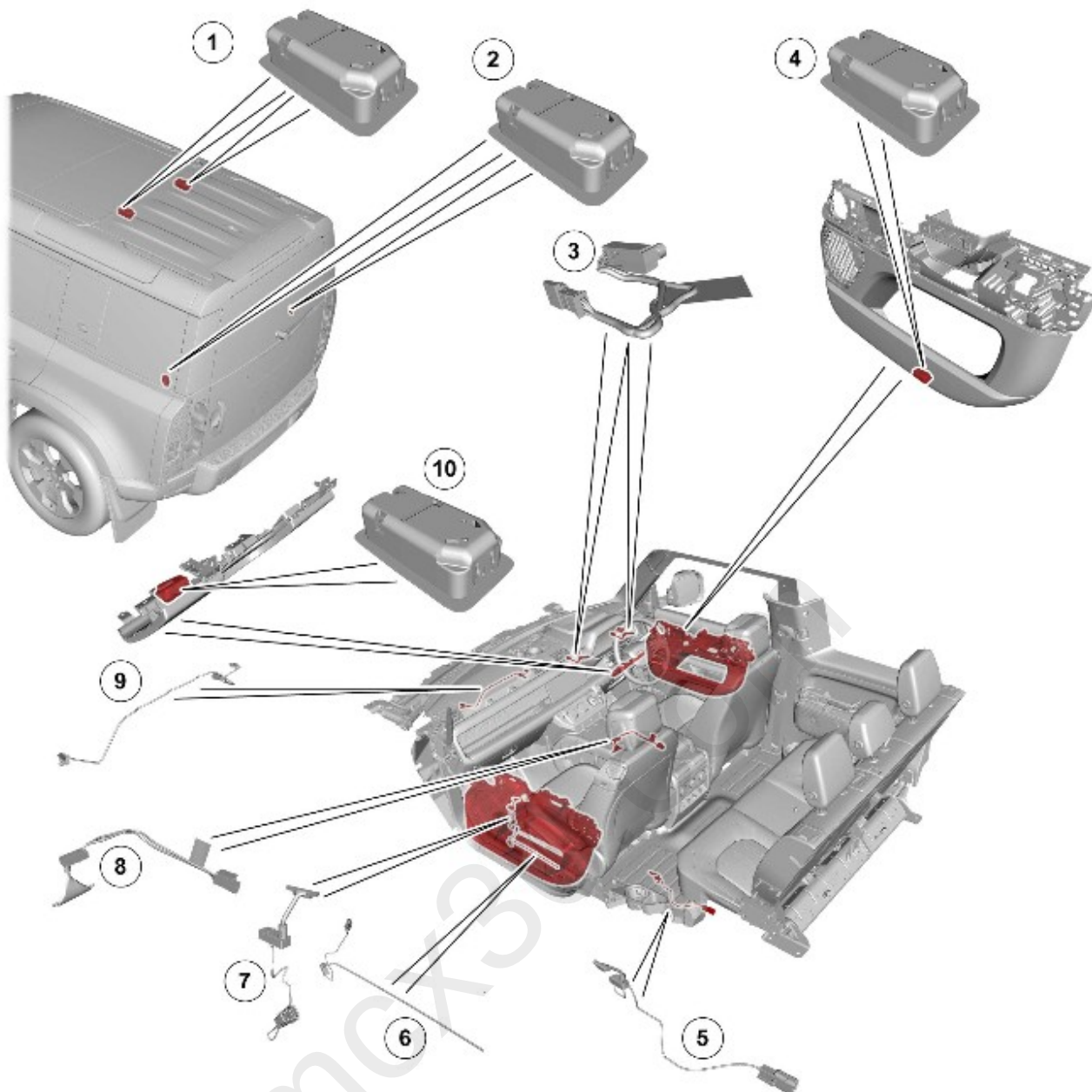
COMPONENT LOCATION - 4 OF 5 - VEHICLE WITH 3 DOORS



NOTE:

RHD vehicle is shown, LHD vehicle is similar.

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E247455

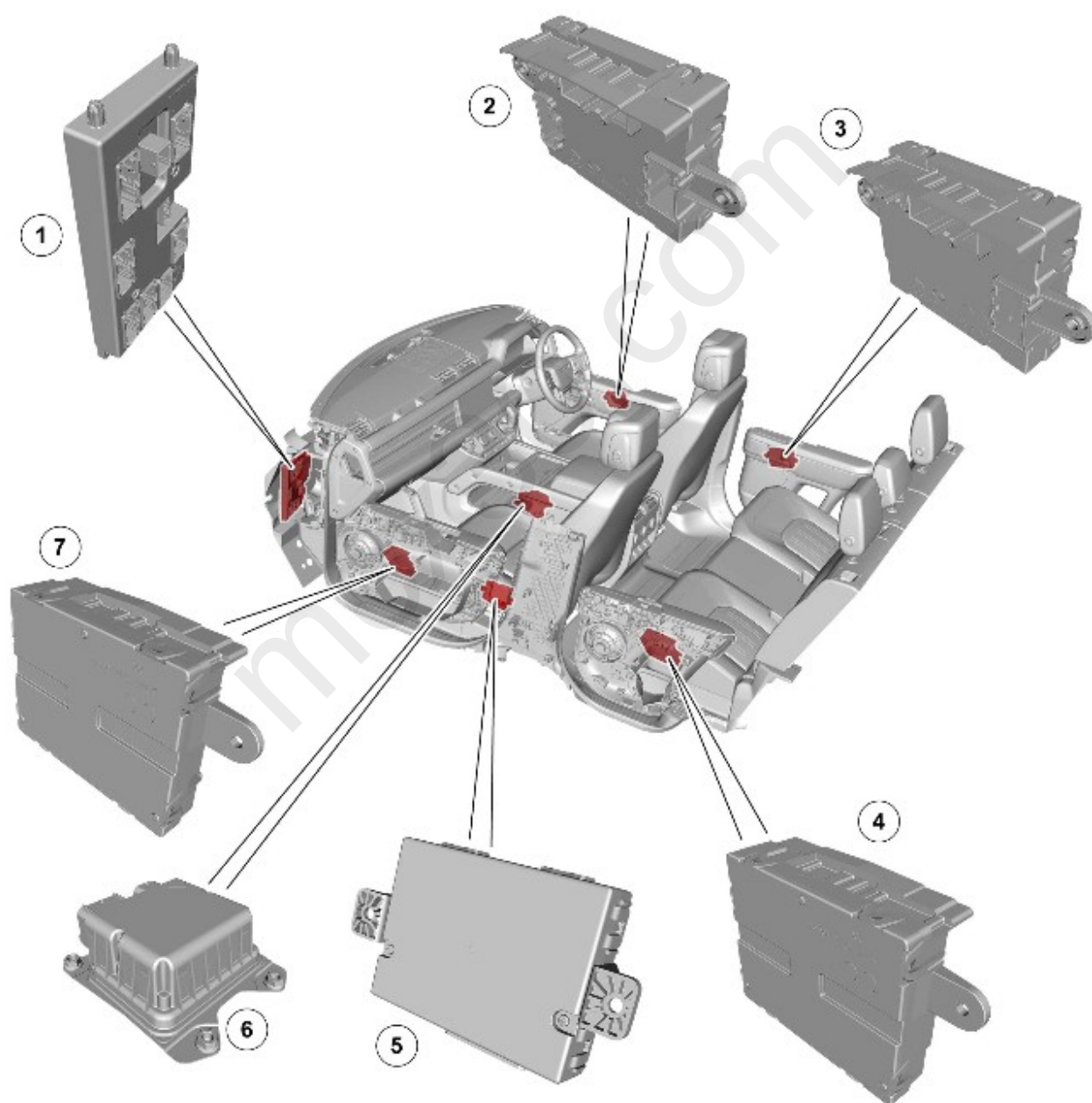
ITEM	DESCRIPTION
1	Rear interior lamp (quantity 2)
2	Loadspace lamp (quantity 2)
3	Instrument panel lamp - Short (quantity 2)
4	Puddle lamp (quantity 2)
5	Rear quarter pocket ambient lighting LEDs (quantity 2)
6	Door ambience lighting LEDs (quantity 2)
7	Door handle ambience lighting LEDs (quantity 2)
8	Floor console lamp

ITEM	DESCRIPTION
9	Instrument panel lamp - Long
10	Footwell lamp (quantity 2)

COMPONENT LOCATION - 5 OF 5

NOTES:

- Vehicle with 5 doors is shown, vehicle with 3 doors is similar.
- RHD vehicle is shown, LHD vehicle is similar.



E247444

ITEM	DESCRIPTION
1	Body Control Module (BCM)/ Gateway Control Module (GWM)
2	Driver Door Control Module (DDM)
3	Driver Rear Door Module (DRDM) - 5 doors vehicle only
4	Passenger Rear Door Module (PRDM) - 5 doors vehicle only
5	Remote Function Actuator (RFA)
6	Restraints Control Module (RCM)
7	Passenger Door Control Module (PDM)

OVERVIEW

The interior ambient lighting system uses LEDs only. The interior lighting is controlled by the BCM/ GWM. The interior lamps include:

- Approach lamp (quantity 2)
- Instrument panel and console lamp
- Footwell lamp (quantity 2)
- Vanity mirror - Sun visor lamps (quantity 2)
- Front overhead console lamps (quantity 2)
 - For additional information, refer to: [Roof Opening Panel](#) (501-17 Roof Opening Panel, Description and Operation).
- Loadspace lamp (quantity 2)
- Treadplate illumination (quantity 2)
- Door trim and handle ambience lighting (quantity 4)
- Rear quarter pocket ambience lighting (quantity 2) - 3 doors vehicle only
- Glovebox lamp
- Rear interior lamps (quantity 2)
- Puddle lamp (quantity 4) - 5 doors vehicle only
- FCIM
 - For additional information, refer to: [Control Components](#) (412-01 Climate Control, Description and Operation).
- FCIMB (if equipped)
 - For additional information, refer to: [Control Components](#) (412-01 Climate Control, Description and Operation).
- Front portable media interface panel.

- For additional information, refer to: [Audio System](#) (415-01 Information and Entertainment System, Description and Operation).

The interior lamps have 2 modes of operation:

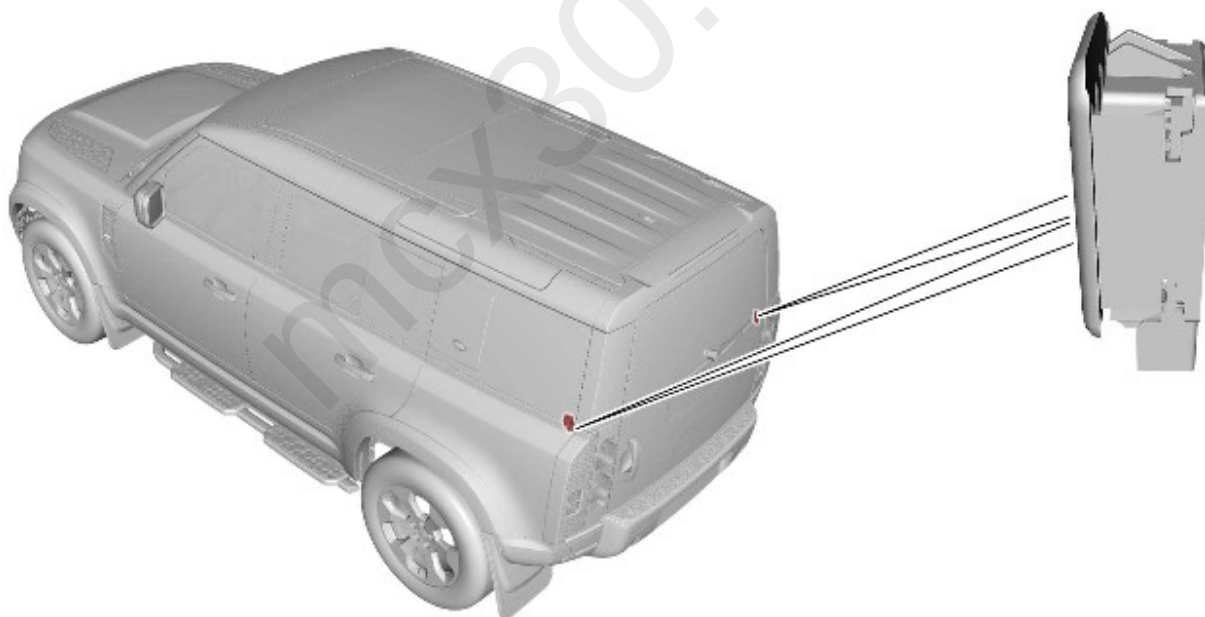
- In the automatic mode, the interior lamp functionality is controlled by the BCM/ GWM on receipt of various input signals.
- In the manual mode, the interior lamps switch controls the operation of the interior lamps.

DESCRIPTION

LOADSPACE LAMPS

NOTES:

- Vehicle with 5 doors is shown, vehicle with 3 doors is similar.
- Right installation is shown, left installation is similar.



E247445

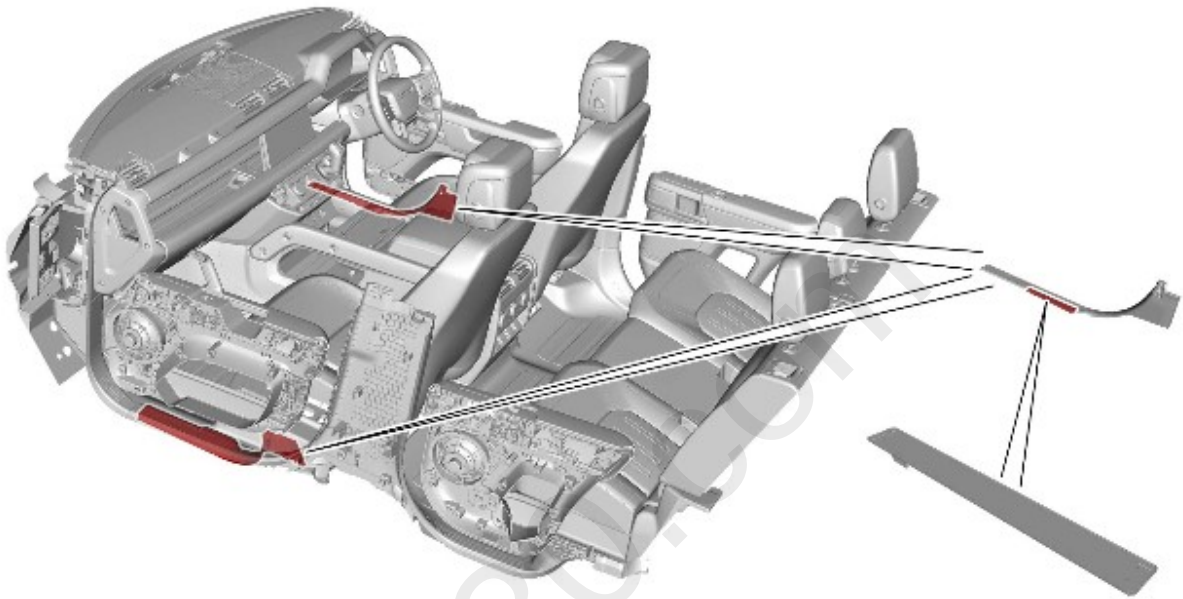
The loadspace includes interior lamps located on the left and right. There are 2 lamps located in the loadspace side trims .

The lamps are controlled by the BCM/ GWM and operate automatically. The BCM/ GWM receives a signal from the tailgate ajar switch to turn the loadspace lights ON.

TREADPLATE ILLUMINATION

NOTES:

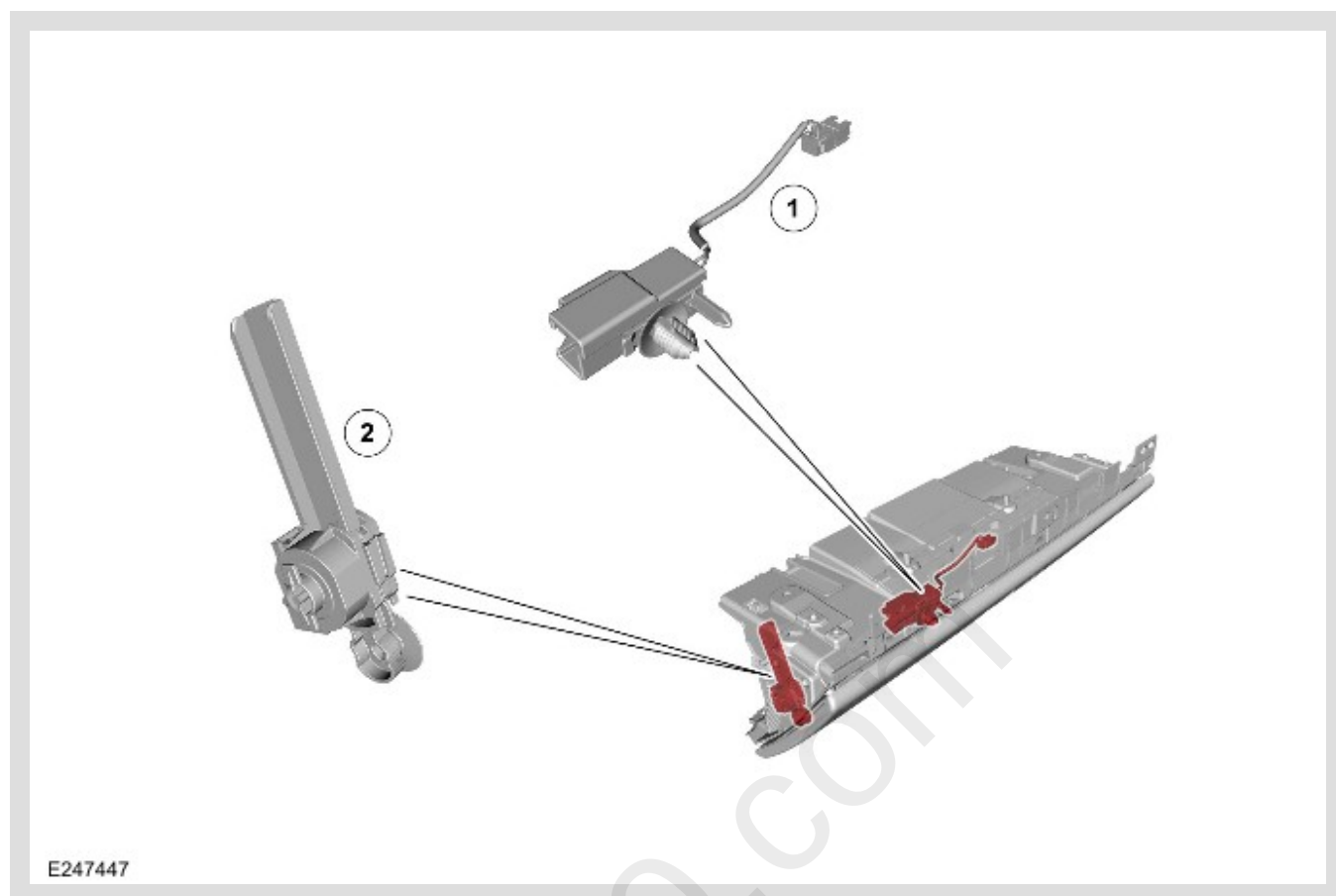
- Vehicle with 5 doors is shown, vehicle with 3 doors is similar.
- RHD vehicle is shown, LHD vehicle is similar.
- Right installation is shown, left installation is similar.



E247446

The door treadplate lamps are controlled by the BCM/ GWM.

GLOVEBOX LAMP AND SWITCH



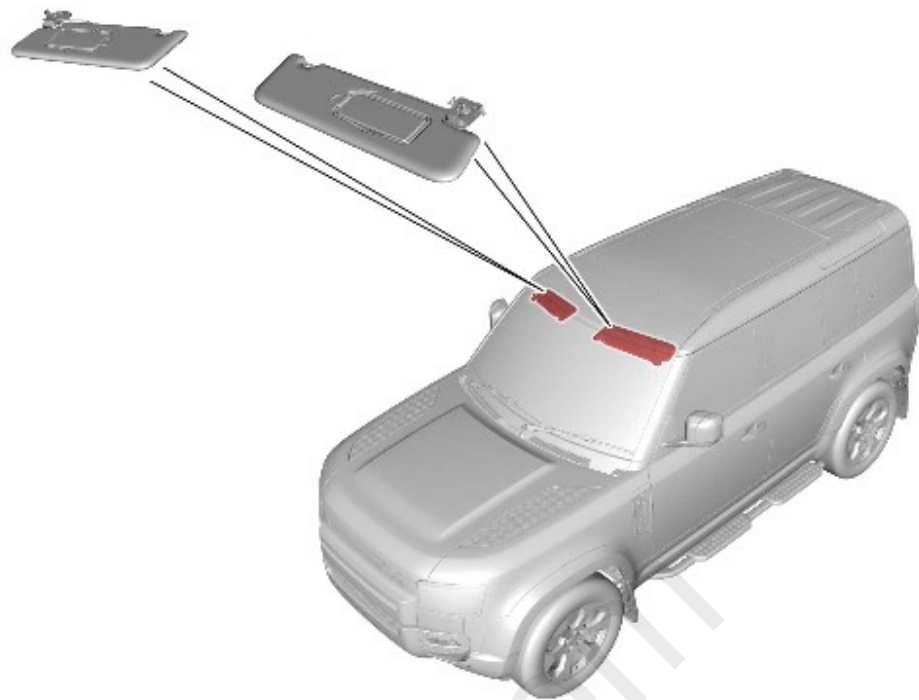
ITEM	DESCRIPTION
1	Glovebox lamp
2	Glovebox switch assembly

The glovebox lamps operate when the glovebox lid is open.

VANITY MIRROR – SUN VISOR LAMPS

NOTES:

- Vehicle with 5 doors is shown, vehicle with 3 doors is similar.
- Right installation is shown, left installation is similar.



E247448

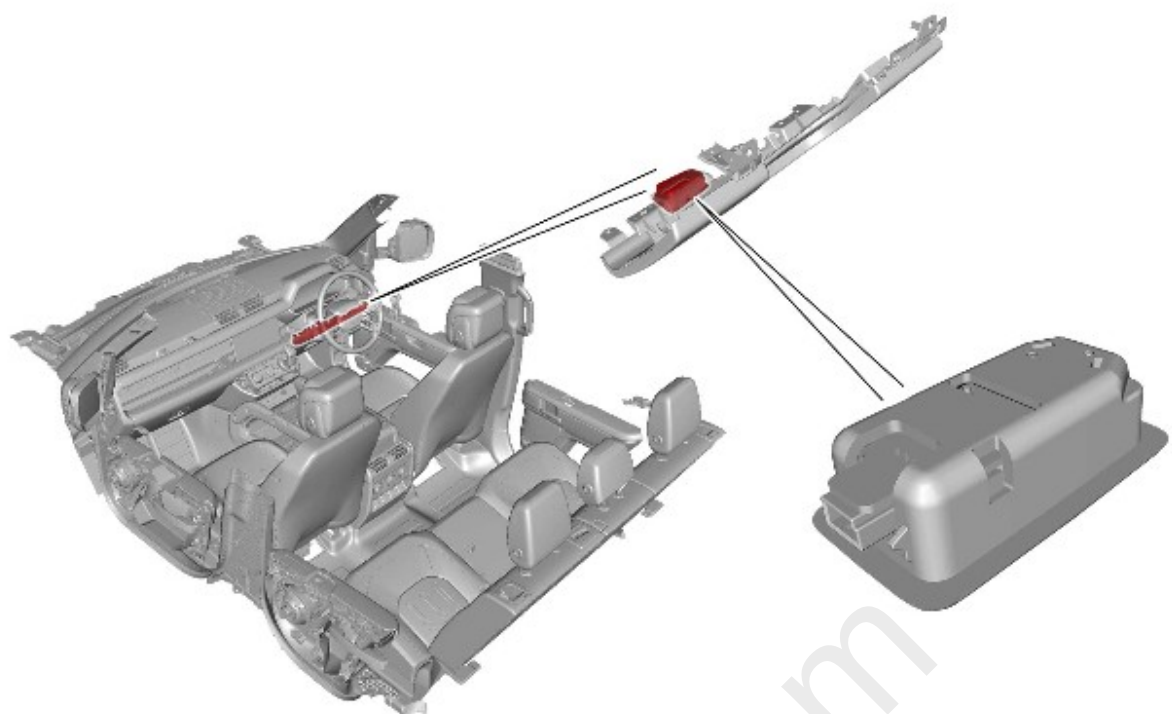
The vanity mirror - Sun visor lamps are located in the front sun visors. The lamps are located behind a hinged cover, either side of the vanity mirrors. The lamps are activated by a simple switch which operates when the vanity mirror cover is lifted.

FOOTWELL LAMPS



NOTES:

- Vehicle with 5 doors is shown, vehicle with 3 doors is similar.
- RHD vehicle is shown, LHD vehicle is similar.
- Right installation is shown, left installation is similar.



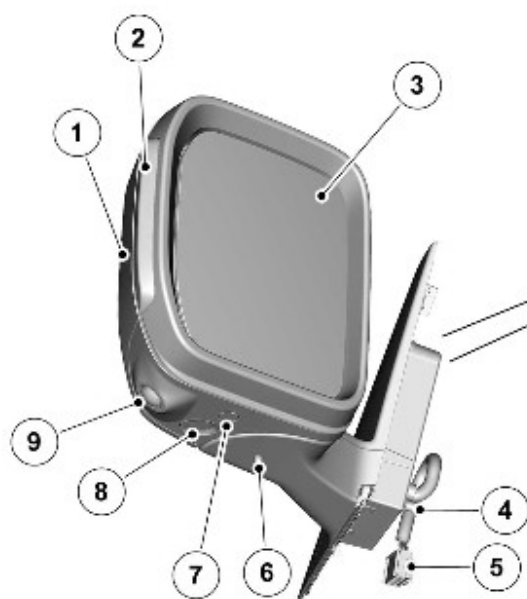
E247449

The front footwell lamps illuminate the front footwell when the interior lights operate, also with switch gear illumination for 'mono ambient'.

DOOR MIRROR APPROACH LAMPS

NOTES:

- Vehicle with 5 doors is shown, vehicle with 3 doors is similar.
- Left installation is shown, right installation is similar.



E250774

ITEM	DESCRIPTION
1	Door mirror cover
2	Side repeater lamp
3	Door mirror glass
4	Proximity camera wiring harness connector (if equipped)
5	Door mirror wiring harness connector
6	Ambient Air Temperature (AAT) sensor
7	Approach lamp (if equipped)
8	Wade sensor (if equipped)
9	Proximity camera (if equipped)

The door mirrors are equipped with a lamp which illuminates the area below the front door. The housing contains a plastic lens which directs a beam of light in the required area.

The approach lamps are controlled by the BCM/ GWM, through the DDM and PDM. Each door module receives a signal from the BCM/ GWM on the High Speed (HS) Controller Area Network (CAN) body systems bus. The signal is required to illuminate or extinguish the approach lamps.

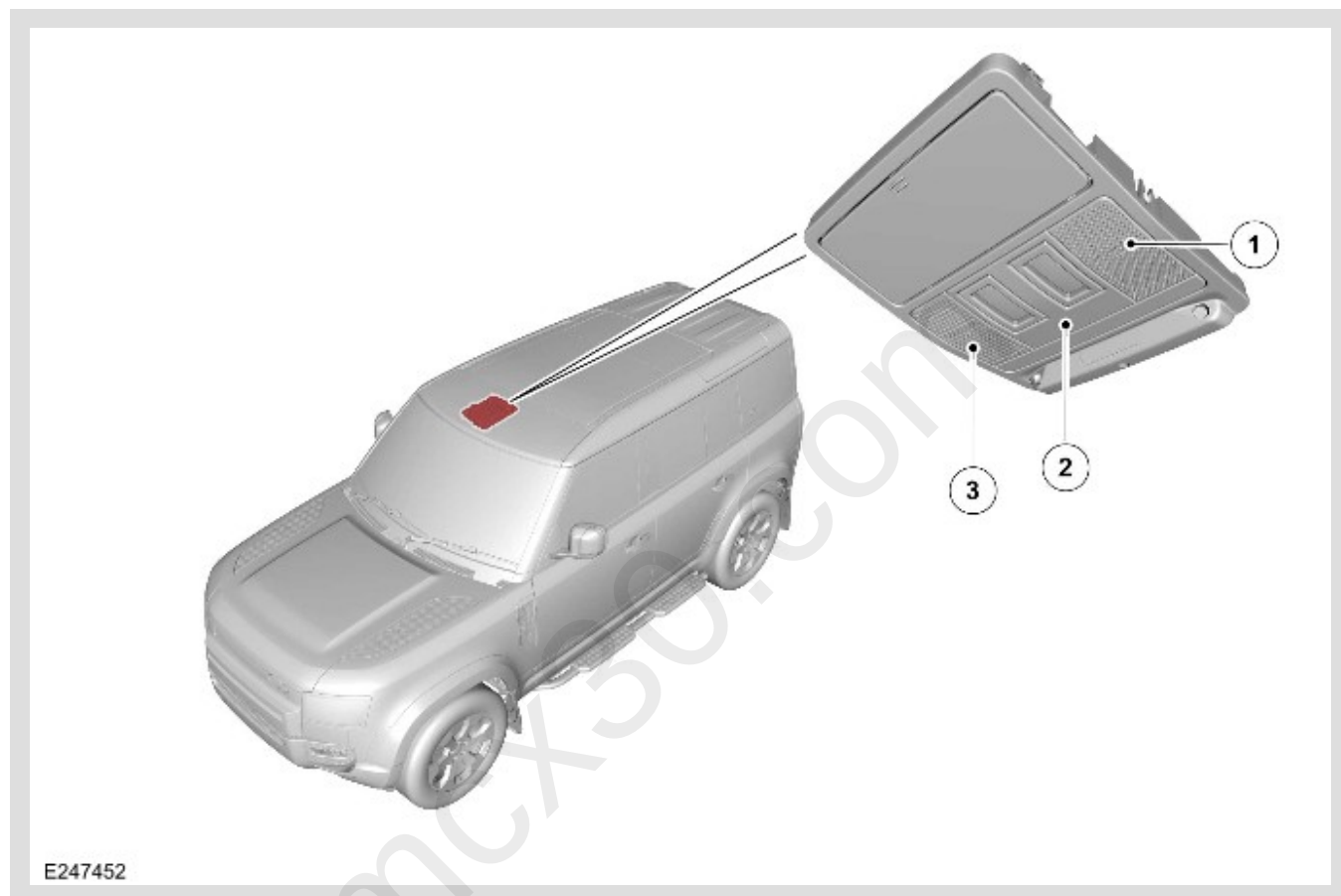
The approach lamps are active when the vehicle:

- Power Mode 4 - Accessory (vehicle unlocked and Smart Key present).
- A door opened.

FRONT OVERHEAD CONSOLE

NOTE:

Vehicle with 5 doors is shown, vehicle with 3 doors is similar.



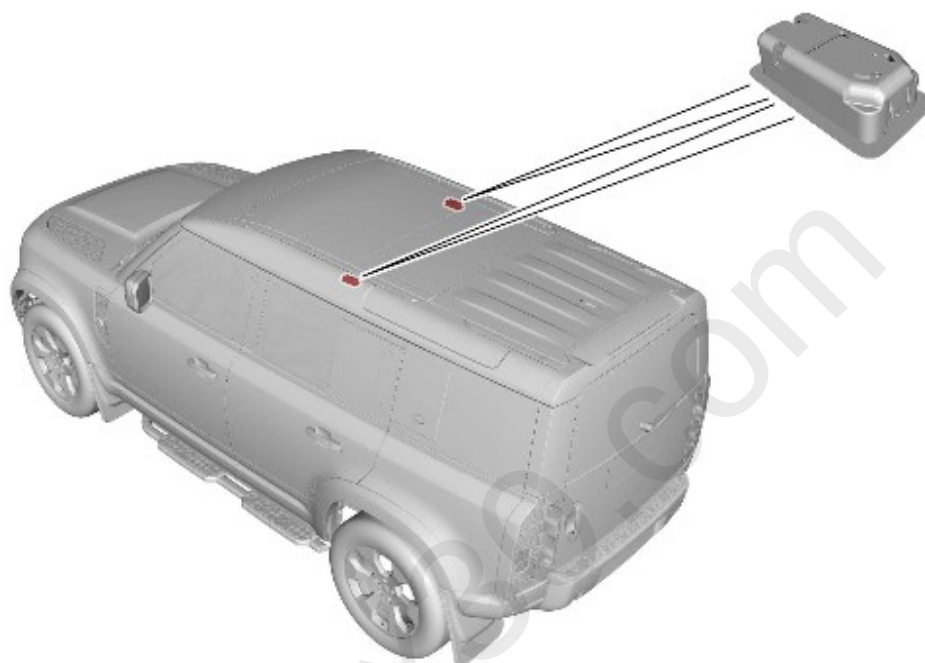
ITEM	DESCRIPTION
1	Left reading lamp
2	Front overhead console
3	Right reading lamp

The reading lamps in the front overhead console are operated manually by touching the lens to switch ON or OFF. The interior lamp is controlled by the BCM/ GWM, and can also be operated manually.

REAR INTERIOR LAMPS

NOTES:

- Vehicle with 5 doors is shown, vehicle with 3 doors is similar.
- Right installation is shown, left installation is similar.



E247453

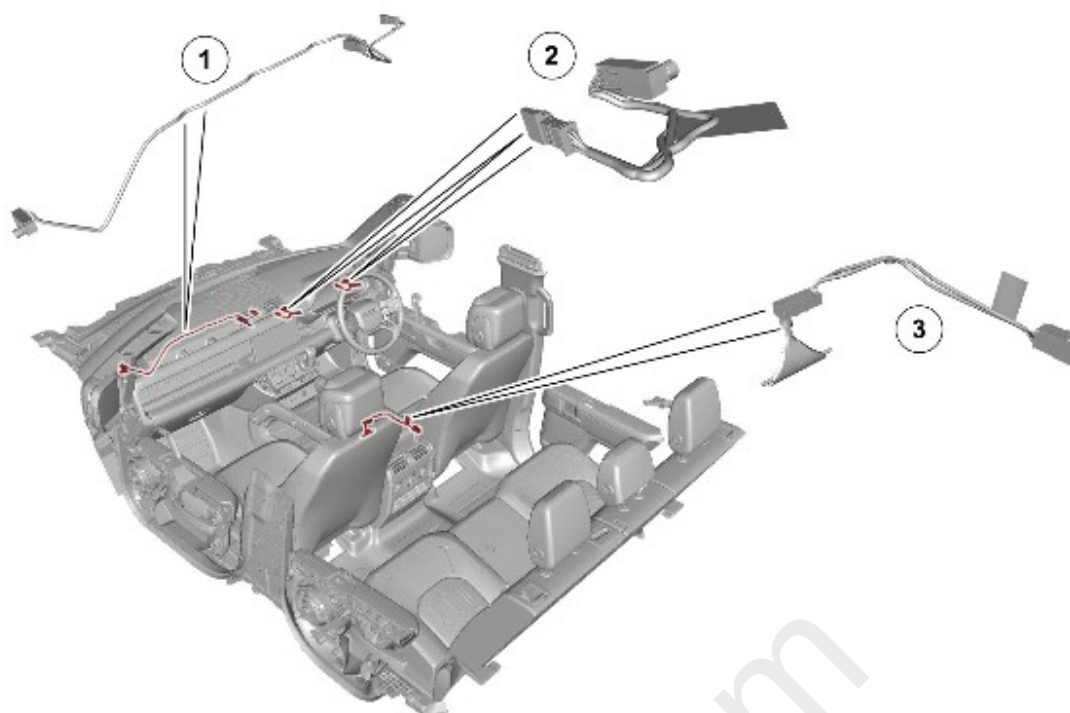
The rear interior lamps are located in the headliner on both left and right side.

The rear interior lamps operate automatically and controlled by the BCM/ GWM. The rear interior lamps can also be operated by pushing the lens to switch the lamp ON or OFF.

INSTRUMENT PANEL AND FLOOR CONSOLE ILLUMINATION

NOTES:

- Vehicle with 5 doors is shown, vehicle with 3 doors is similar.
- RHD vehicle is shown, LHD vehicle is similar.



E247450

ITEM	DESCRIPTION
1	Instrument panel lamp - Long
2	Instrument panel lamp - Short (quantity 2)
3	Floor console lamp

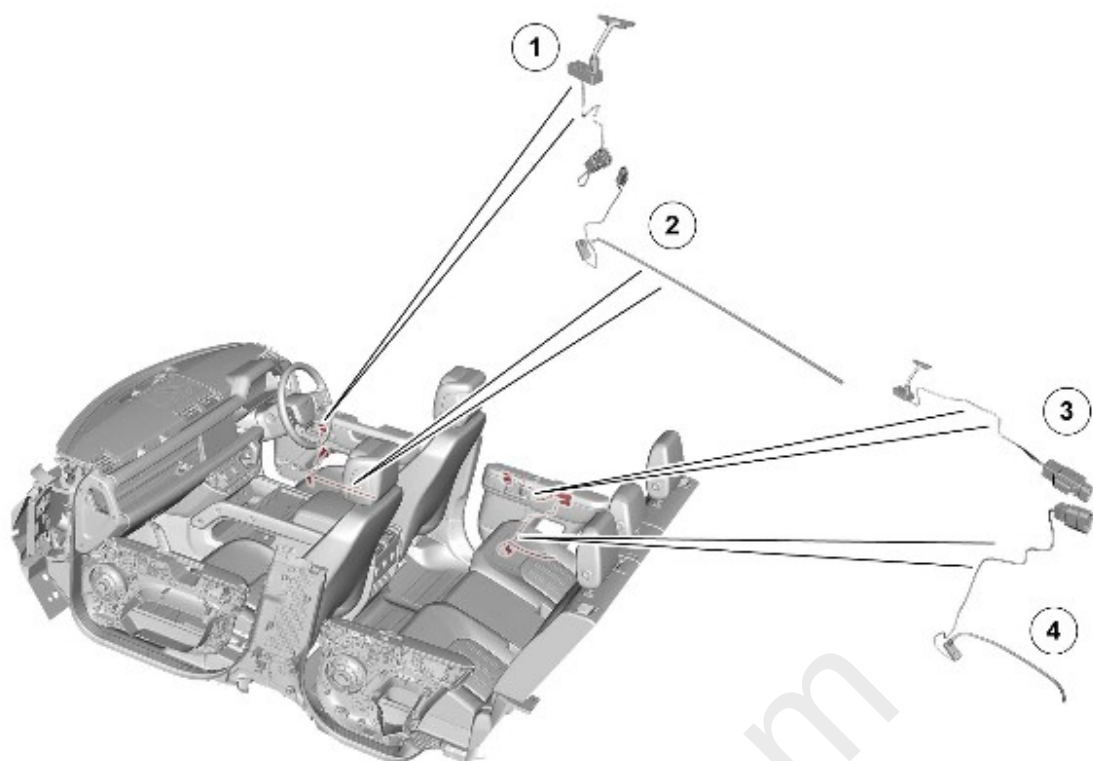
The Instrument panel and floor console ambient lighting illuminate when the interior lights operate. Depending on the specifications, the floor console ambient lighting can be configured.

DOOR AMBIENCE LIGHTING

Vehicle with 5 doors

NOTES:

- RHD vehicle is shown, LHD vehicle is similar.
- Right installation is shown, left installation is similar.



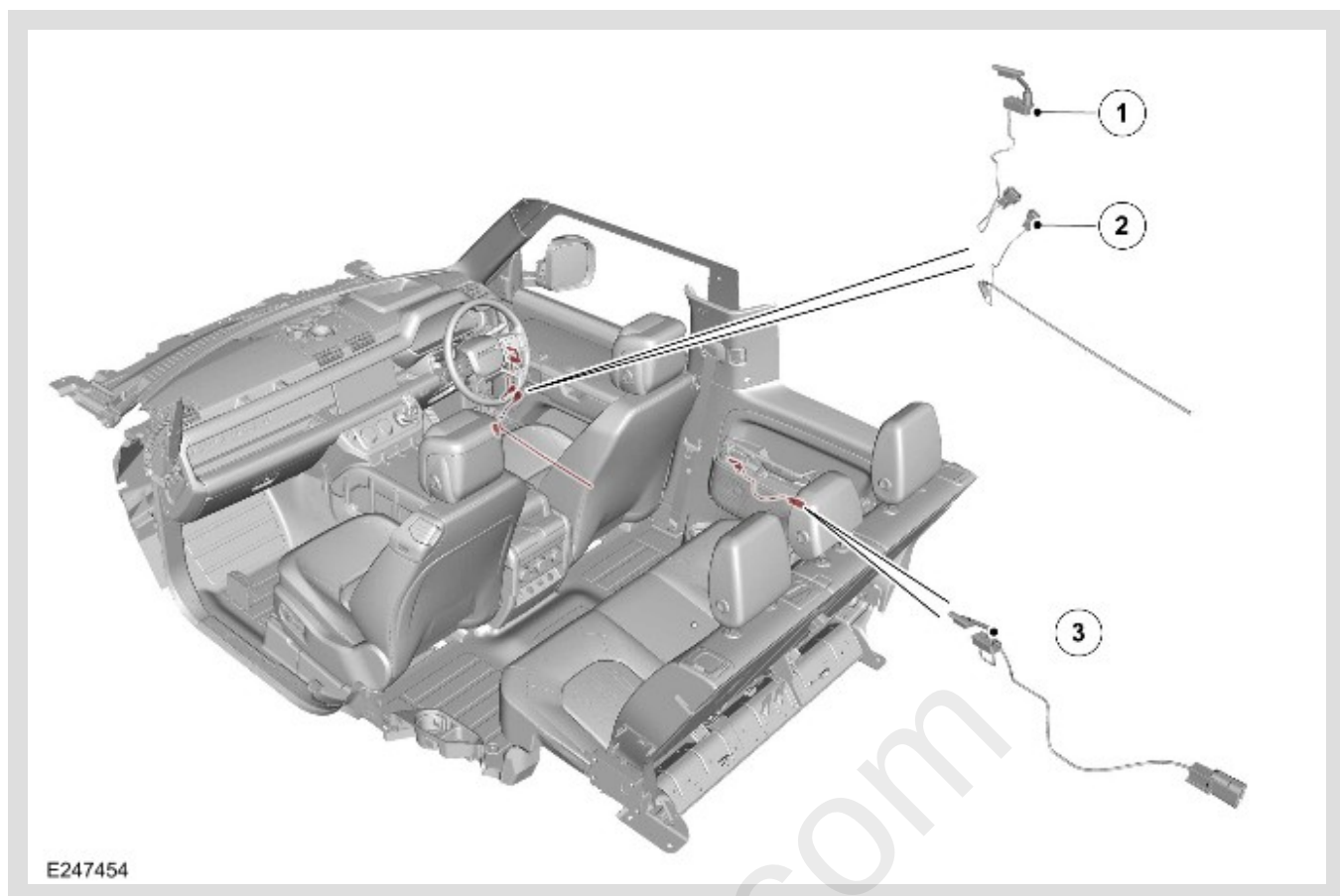
E252115

ITEM	DESCRIPTION
1	Front door handle ambience lighting LEDs (quantity 2)
2	Front door ambience lighting LEDs (quantity 2)
3	Rear door handle ambience lighting LEDs (quantity 2)
4	Rear door ambience lighting LEDs (quantity 2)

Vehicle with 3 doors

NOTES:

- RHD vehicle is shown, LHD vehicle is similar.
- Right installation is shown, left installation is similar.



ITEM	DESCRIPTION
1	Door handle ambience lighting LEDs (quantity 2)
2	Door ambience lighting LEDs (quantity 2)
3	Rear quarter pocket ambience lighting LEDs (quantity 2)

The LEDs ambience lighting is located:

- Door handles and door trim.
- Rear quarter door pocket - Vehicle with 3 doors only.
- Floor console.
- Instrument panel.

The door ambience lighting is controlled by:

- DDM
- PDM
- DRDM - 5 doors vehicle only.
- PRDM - 5 doors vehicle only.

The door handle ambience lighting is controlled by the BCM/ GWM. The DDM, PDM, DRDM (if equipped) and PRDM (if equipped) connect to the BCM/ GWM through the HS CAN body systems bus.

AMBIENCE LIGHTING

NOTE:

Vehicles without configurable interior ambience lighting illuminate the standard white light for the interior lights.

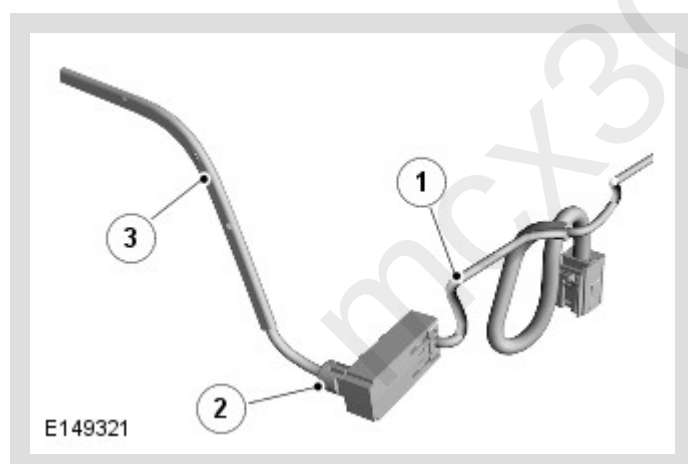
For configurable ambience lighting, the lighting color and brightness can be set. The setting is on the FCDIM dependant on the variant.

To adjust the configurable interior ambience lighting for color and intensity, select the 'VEHICLE SETTINGS' menu.

Light Emitting Diode Ambience Lighting Component

NOTES:

- Example is shown, units vary with application.
- The color of LED has 2 variants:
 - Single color LEDs
 - Tri color LEDs.



ITEM	DESCRIPTION
1	Power supply
2	LED light source
3	Light guide

Ambience lighting is provided by LED units around the vehicle. Each component is made up of 3 parts:

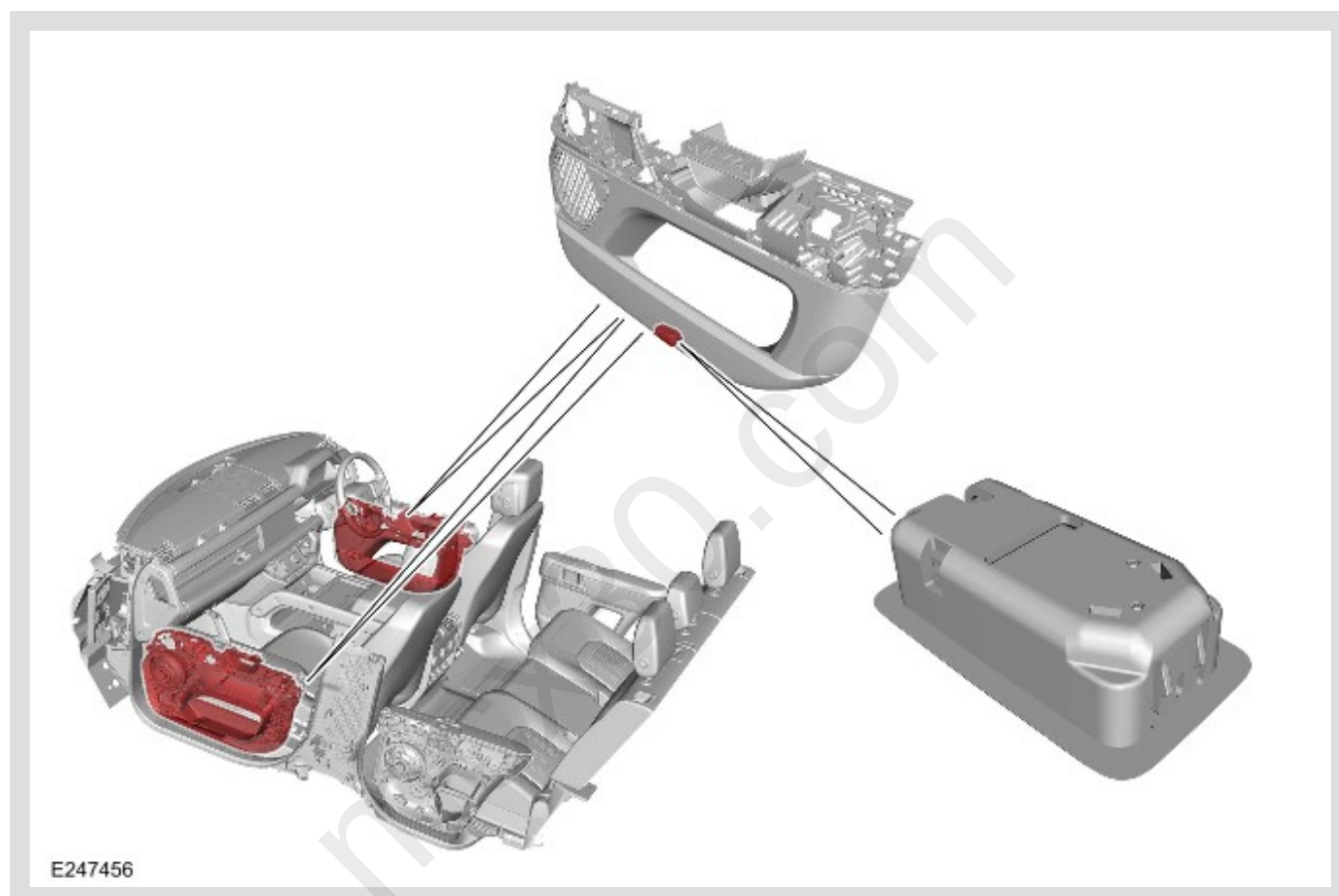
- LED light source

- A light guide
- A light guide carrier.

DOOR PUDDLE LAMP

NOTES:

- Vehicle with 5 doors is shown, vehicle with 3 doors is similar.
- RHD vehicle is shown, LHD vehicle is similar.
- Front right installation is shown, the others is similar.



Each of the doors is installed with a puddle lamp to illuminate the ground below the door when the door is open. The front door puddle lamps are located in the lower face of the door, facing the ground. The rear door puddle lamps are located in the bottom of the door trim panel. Each lamp uses a capless bulb.

OPERATION

The components and conditions that supply the input signals to operate the interior lamps include:

- Front and rear door latches - Door ajar switch contacts
- Tailgate latch assembly - Tailgate ajar switch contacts
- Power Mode 4 - Accessory (vehicle unlocked and Smart Key present).
- Central Door Locking (CDL) - Lock request

- CDL - Smart Key unlock request
- Impact sensor input from RCM
- Front interior lamp switch.

The loadspace lamps are switched ON with the interior lamps. When the tailgate is opened, the interior lamps and the loadspace lamps, are switched ON. The interior lamps and loadspace lamps are subject to the BCM/ GWM timers. The tailgate OPEN signal to the BCM/ GWM is provided by a microswitch in the tailgate latch assembly.

AUTOMATIC OPERATION



ITEM	DESCRIPTION
1	Lock
2	Headlights
3	Panic alarm
4	Unlock
5	Tailgate

The interior lamps automatically switch ON and OFF in these situations:

- The interior lamps switch ON when 1 or more doors are unlocked. The interior lamps switch OFF 30 seconds after all the doors are closed when in Power Mode 0 (vehicle locked and security system armed).
- In Power Mode 4 - Accessory (vehicle unlocked and Smart Key present), the interior lamps are switched ON for 30 seconds. This timer is overridden if a door is subsequently opened.
- The RFA receives a door unlock request after pressing the 'Unlock' switch on the Smart Key. The vehicle is unlocked and the doors are closed, the interior lamps are illuminate for a further 30 seconds.
- When the vehicle is unlocked from a locked condition, the interior lamps are activated for a 30 seconds period. This timer is overridden if a door is subsequently opened.

- If a door stays open, the interior lamps illuminate for 16 minutes. After this period, the BCM/ GWM timer switches the interior lamps OFF to prevent excessive startup battery consumption.

The lamps illuminate slowly and increase to full intensity in 1.3 seconds. The lamps are switched OFF with a decreasing intensity of 2.6 seconds. The fade ON/OFF operation is controlled by the BCM/ GWM.

MANUAL OPERATION

The interior lamps can be switched ON or OFF using the manual switch for the front interior lamp. The front interior lamp switch operates all front and rear interior lamps. If the interior lamps are ON when the switch is pressed, all interior lamps go OFF.

The front interior lamp switch is used to switch the interior lamps ON:

- In Power Mode 4 (Accessory (vehicle unlocked and Smart Key present))
- In Power Mode 6 (ignition ON).

This causes the interior lamps to stay ON continuously. In the Power Mode 0 (vehicle locked and security system armed), the interior lamps subject to the 16 minutes BCM/ GWM timer. The interior lamp is immediately switched OFF when the vehicle is locked. After a locking procedure, the interior lamp automatic control is reinstated.

The rear interior lamp switch operates the rear interior lamps only.

CONTINUOUS OFF

To decrease startup battery consumption if the doors are open or unlocked for long periods, the automatic operation can be set to OFF. The setting is stored in the BCM/ GWM and is activated following a system power down or a reset of the BCM/ GWM.

To set the interior lamps to continuous OFF, push and hold the front interior lamp switch for approximately 3 seconds. Full automatic control of the interior lamps continue when you push and hold the front interior lamp switch for approximately 3 seconds again. When continuous OFF is active, the rear interior lamp switch can still be used to switch the rear interior lamp only ON or OFF. When continuous OFF mode is active, the front interior lighting can still be manually activated.

IMPACT SIGNAL OPERATION

In the event of an impact that operates the supplementary restraint system, the interior lamps operate.

The impact signal operation of the interior lamps can only be canceled by:

- Operating the manual switch on the front interior lamp.
- In Power Mode 0 (vehicle locked and security system armed).
- In Power Mode 4 (Accessory (vehicle unlocked and Smart Key present)).

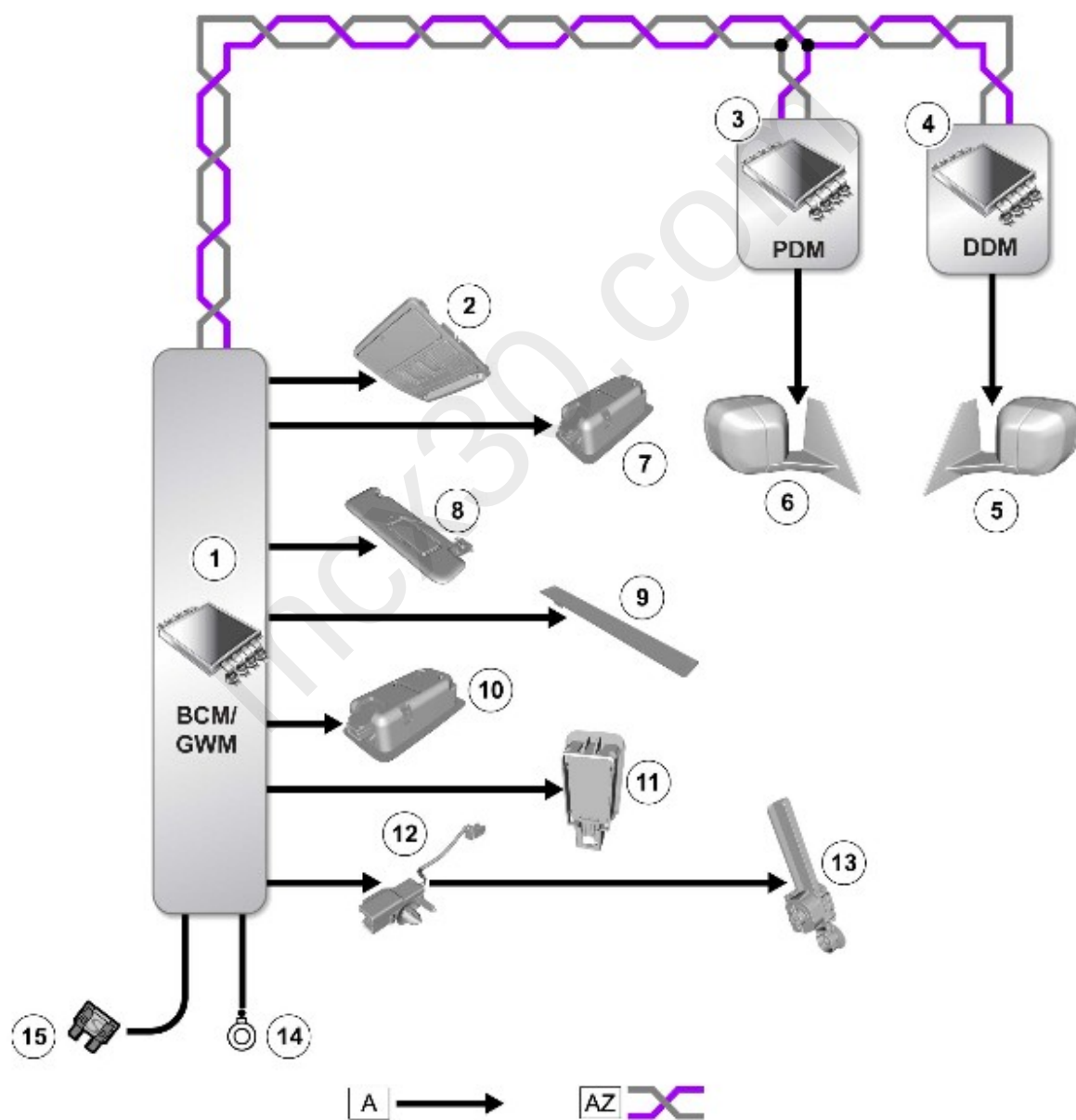
DIAGNOSTICS

The BCM/ GWM records any Diagnostic Trouble Code (DTC)s and related data. Read the DTCs and related data with the Jaguar Land Rover (JLR) approved diagnostic equipment.

The JLR approved diagnostic equipment enables certain components to be activated and also live data to be read.

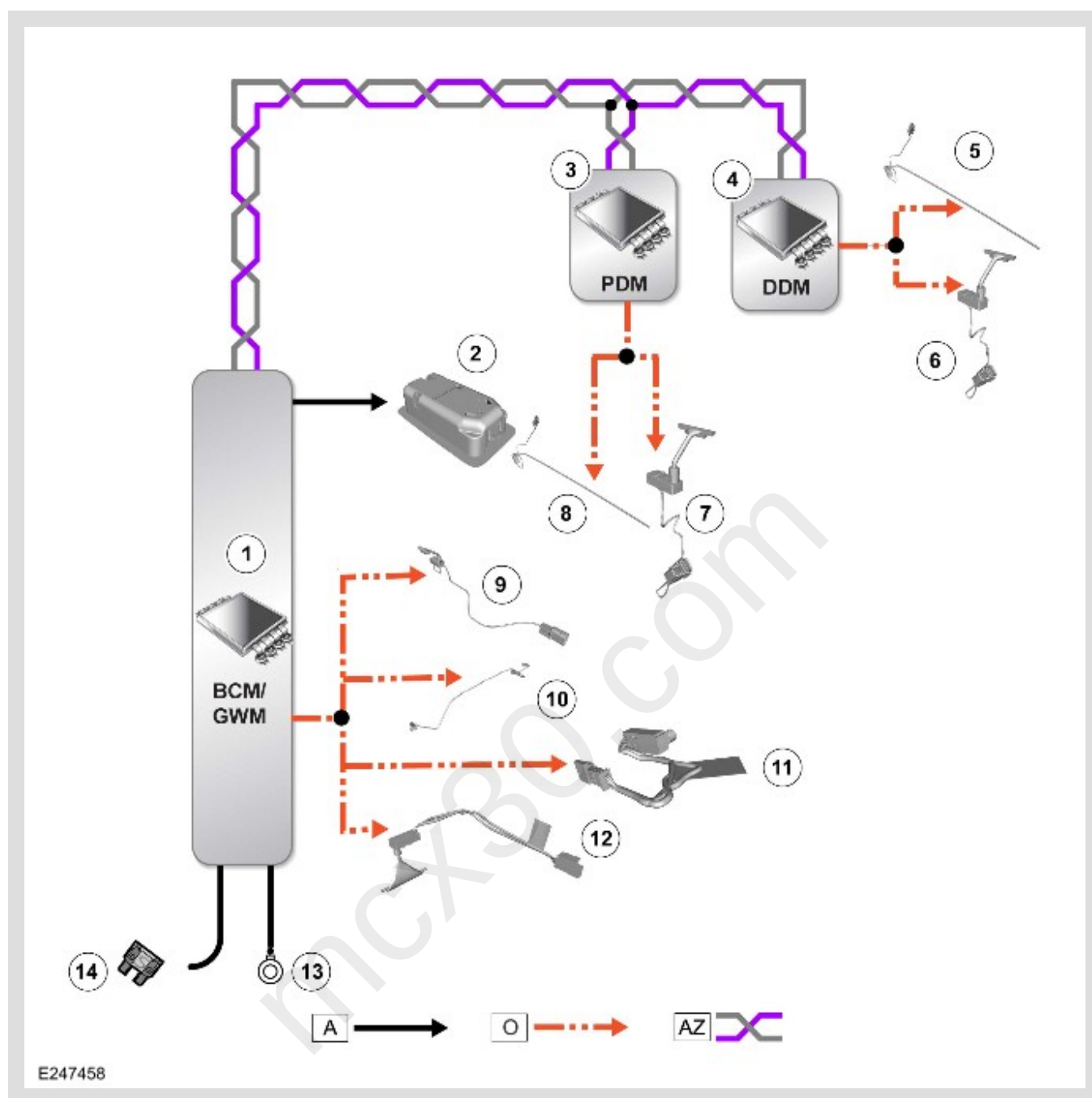
CONTROL DIAGRAM

CONTROL DIAGRAM - 1 OF 6 - INTERIOR COURTESY LIGHTING



A = HARDWIRED: AZ = HS CAN BODY SYSTEMS BUS.

ITEM	DESCRIPTION
1	BCM/ GWM
2	Front overhead console - Front interior lamp
3	PDM
4	DDM
5	Approach lamp - Driver door mirror
6	Approach lamp - Passenger door mirror
7	Footwell lamp (quantity 2)
8	Vanity mirror LEDs (quantity 2)
9	Illuminated front treadplate (quantity 2)
10	Loadspace interior lamp (quantity 2)
11	Interior lamp rear (quantity 2)
12	Glovebox lamp
13	Glovebox switch
14	Ground
15	Power supply



A = HARDWIRED: O = LOCAL INTERCONNECT NETWORK (LIN): AZ = HS CAN BODY SYSTEMS BUS.

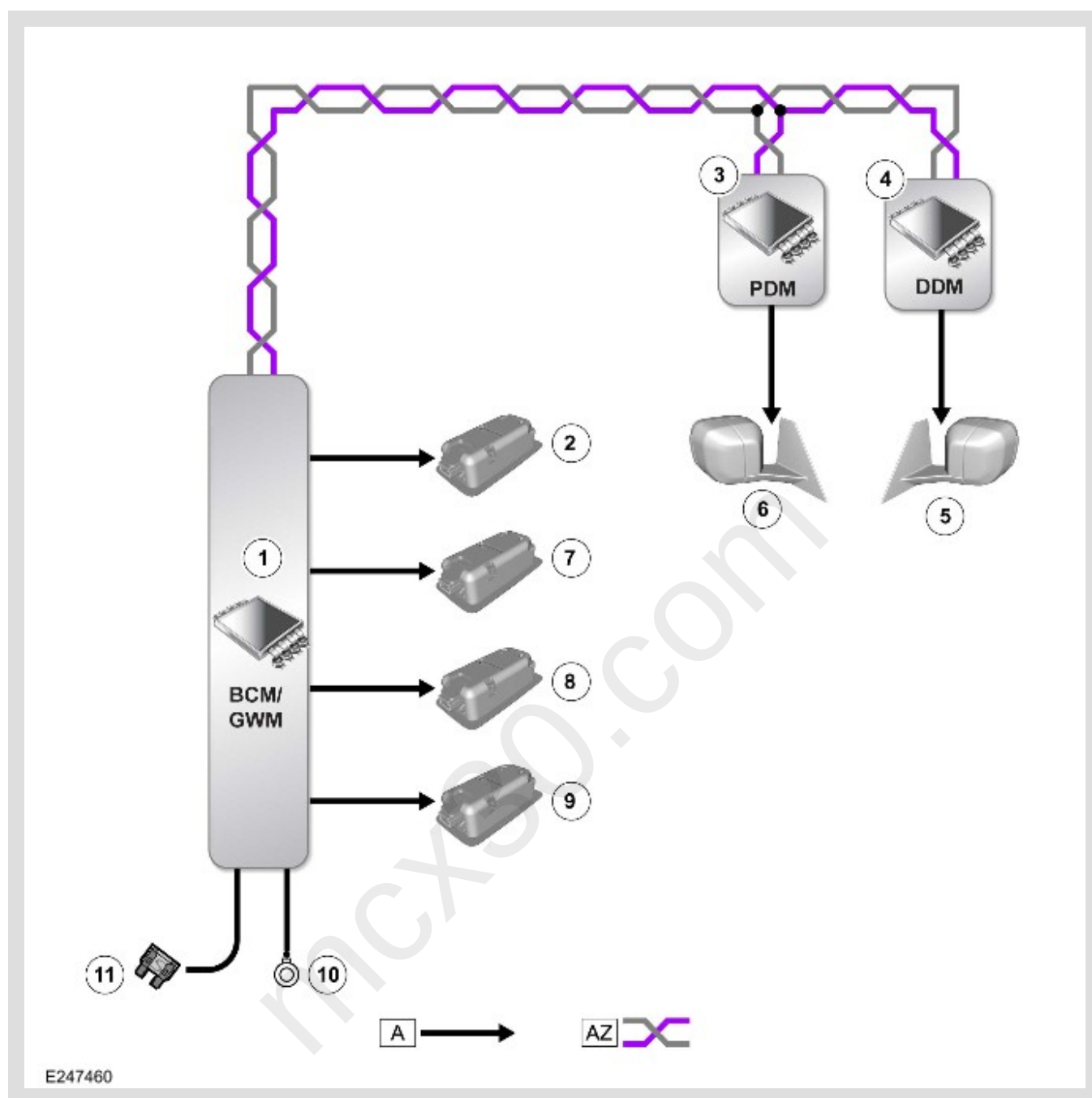
ITEM	DESCRIPTION
1	BCM/ GWM
2	Footwell lamp (quantity 2)
3	PDM
4	DDM
5	Driver door ambience lighting LED

ITEM	DESCRIPTION
6	Driver door handle ambience lighting LED
7	Passenger door handle ambience lighting LED
8	Passenger door pocket ambience lighting LED
9	Rear quarter pocket ambience lighting LED
10	Instrument panel illumination - Long
11	Instrument panel illumination - Short (quantity 2)
12	Floor console ambience lighting
13	Ground
14	Power supply

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ITEM	DESCRIPTION
6	Driver door handle ambience lighting LED
7	Passenger door handle ambience lighting LED
8	Passenger door pocket ambience lighting LED
9	Footwell lamp (quantity 2)
10	Instrument panel illumination - Long
11	Instrument panel illumination - Short (quantity 2)
12	Floor console ambience lighting
13	Ground
14	Power supply
15	Rear door handle ambience lighting LED - Driver side
16	Rear door ambience lighting LED - Driver side
17	Rear door handle ambience lighting LED - Passenger side
18	Rear door ambience lighting LED - Passenger side
19	PRDM

CONTROL DIAGRAM – 4 OF 6 – ILLUMINATED ENTRY – 5 DOORS VEHICLE

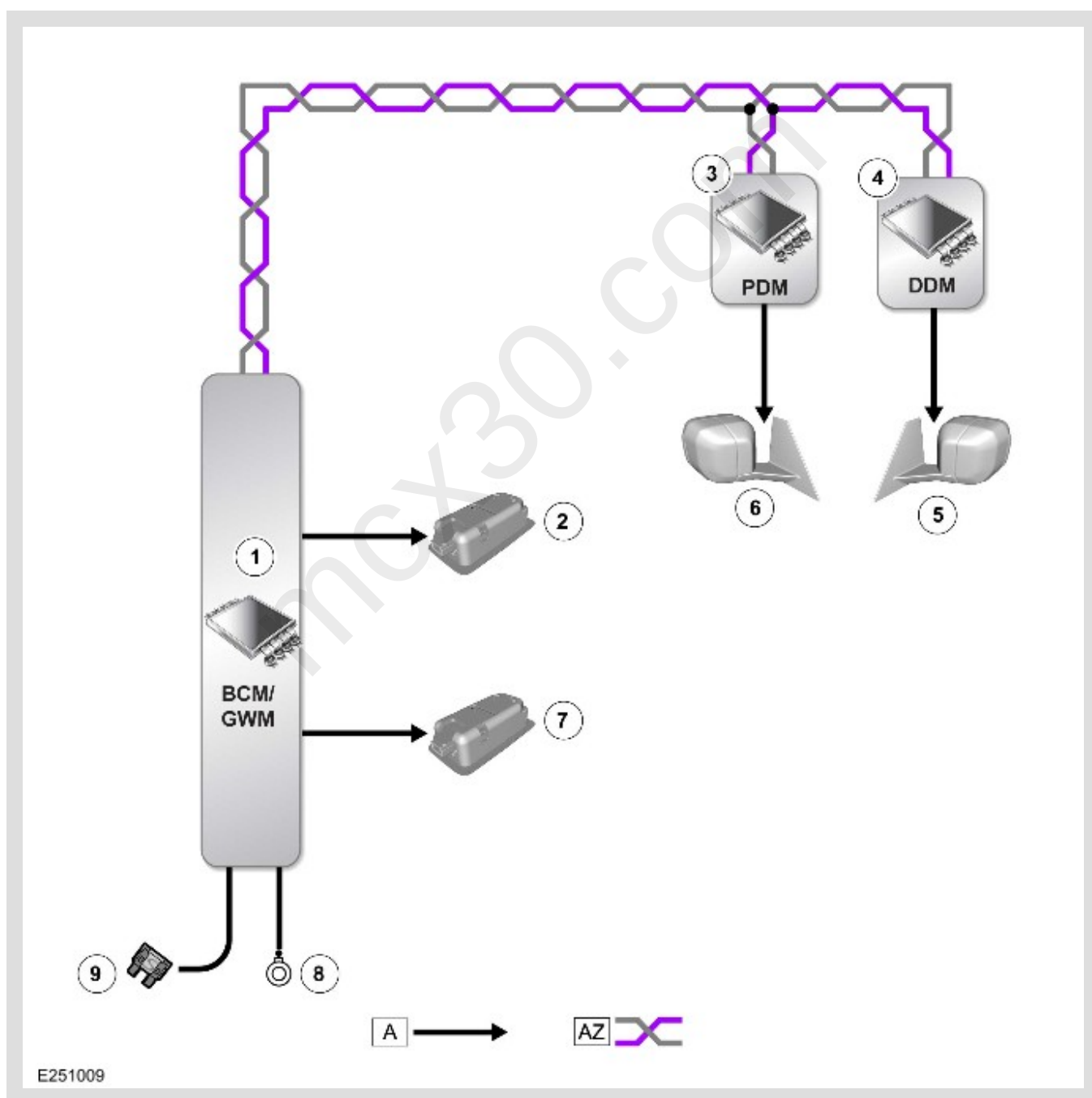


A = HARDWIRED: AZ = HS CAN BODY SYSTEMS BUS.

ITEM	DESCRIPTION
1	BCM/ GWM
2	Puddle lamp - Front left
3	PDM
4	DDM
5	Approach lamp - Driver door mirror

ITEM	DESCRIPTION
6	Approach lamp - Passenger door mirror
7	Puddle lamp - Front right
8	Puddle lamp - Rear left
9	Puddle lamp - Rear right
10	Ground
11	Power supply

CONTROL DIAGRAM - 5 OF 6 - ILLUMINATED ENTRY - 3 DOORS VEHICLE

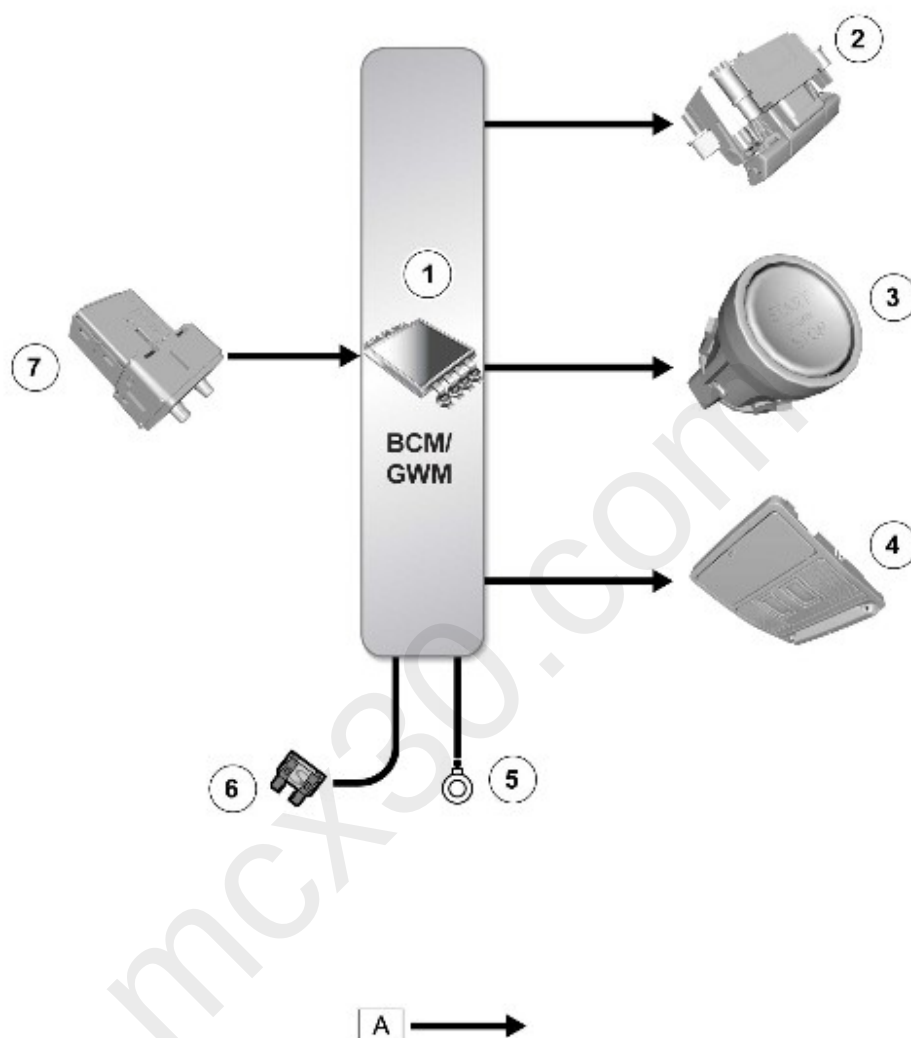


A = HARDWIRED: AZ = HS CAN BODY SYSTEMS BUS.

ITEM	DESCRIPTION
1	BCM/ GWM
2	Puddle lamp - Left
3	PDM
4	DDM
5	Approach lamp - Driver door mirror
6	Approach lamp - Passenger door mirror
7	Puddle lamp - Right
8	Ground
9	Power supply

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CONTROL DIAGRAM - 6 OF 6 - INSTRUMENT PANEL SWITCH ILLUMINATION



E247461

A = HARDWIRED.

ITEM	DESCRIPTION
1	BCM/ GWM
2	Electric Park Brake (EPB)
3	Auto stop/start switch
4	Front overhead console - Front interior lamp
5	Ground

ITEM	DESCRIPTION
6	Power supply
7	Auxiliary lighting switch

cmIjaGFyZG1vbnRvbjsyMDIwLTA5LTE4VDEwOjI5OjIzLjAwOFo7OTIuNDAuMTg5LjUzOw==

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