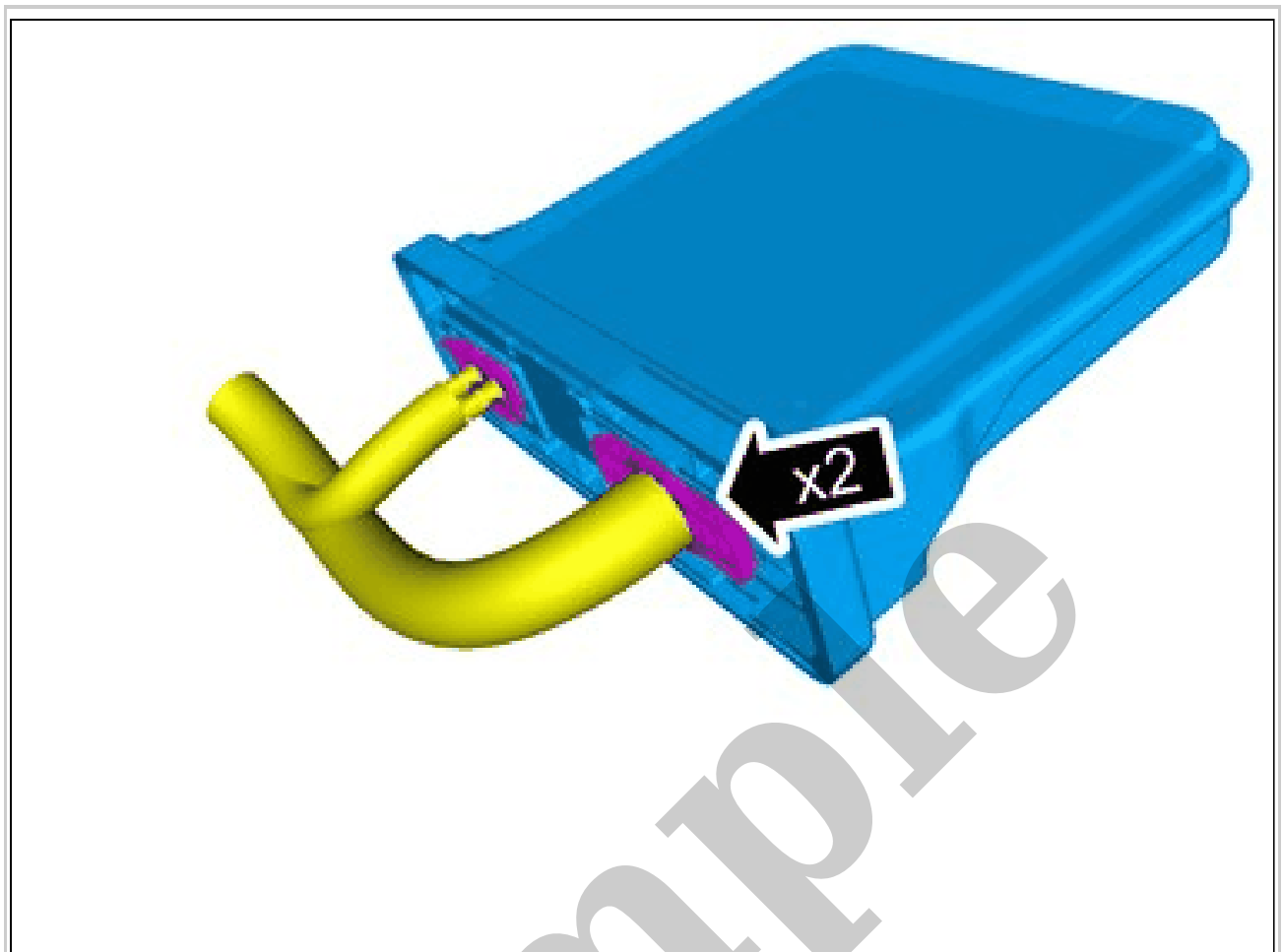


# Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

## 1995 VOLVO 850 Estate OEM Service and Repair Workshop Manual

[Go to manual page](#)



Courtesy of VOLVO CARS CORPORATION

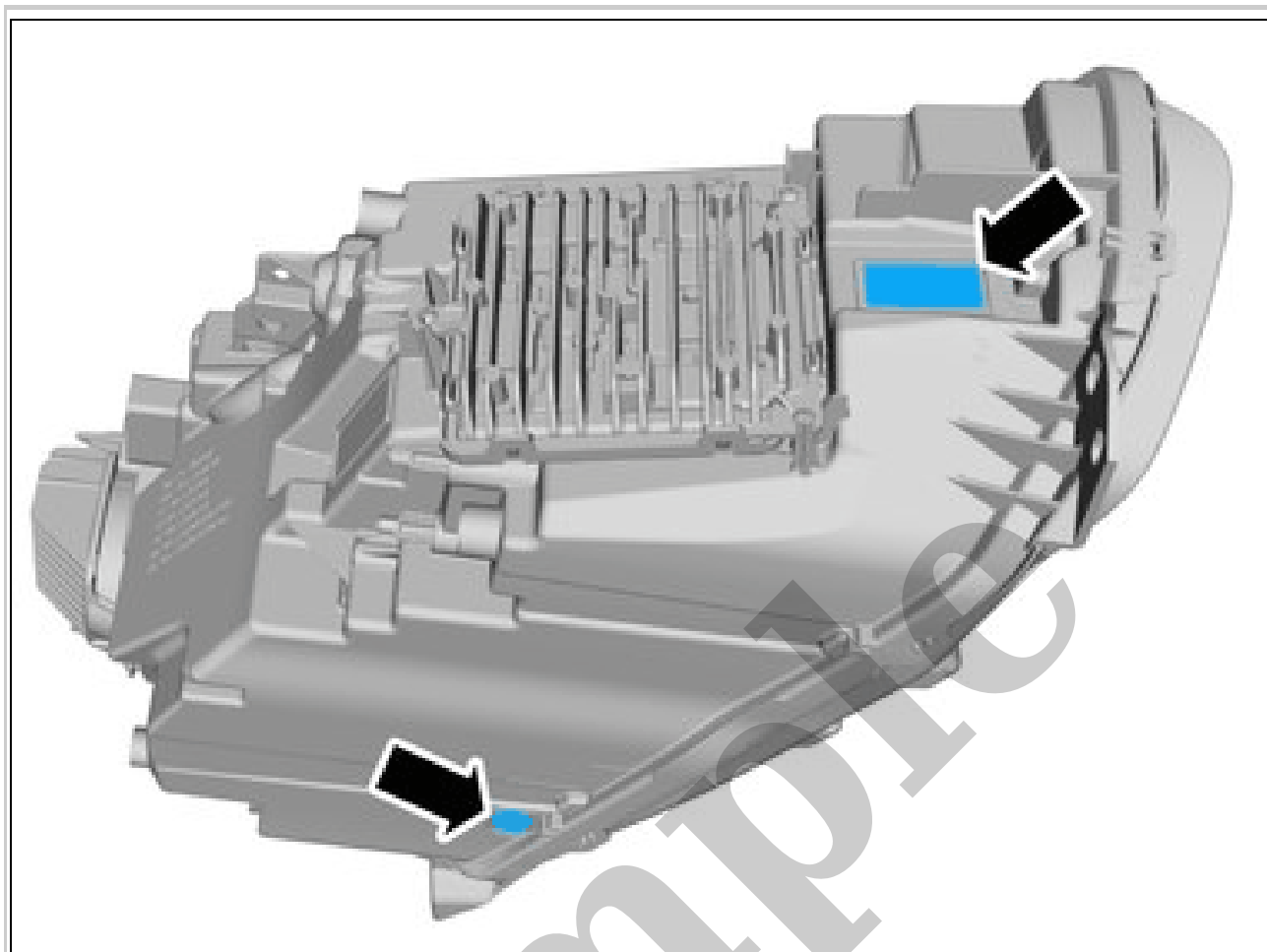
Disconnect the connectors.

## VEHICLE GATEWAY MODULE > VEHICLE GATEWAY MODULE (VGM) [2021-2022, E400V6] > INSTALLATION

To install, reverse the removal procedure.

**NOTE:** *This step is only necessary when installing a new component.*

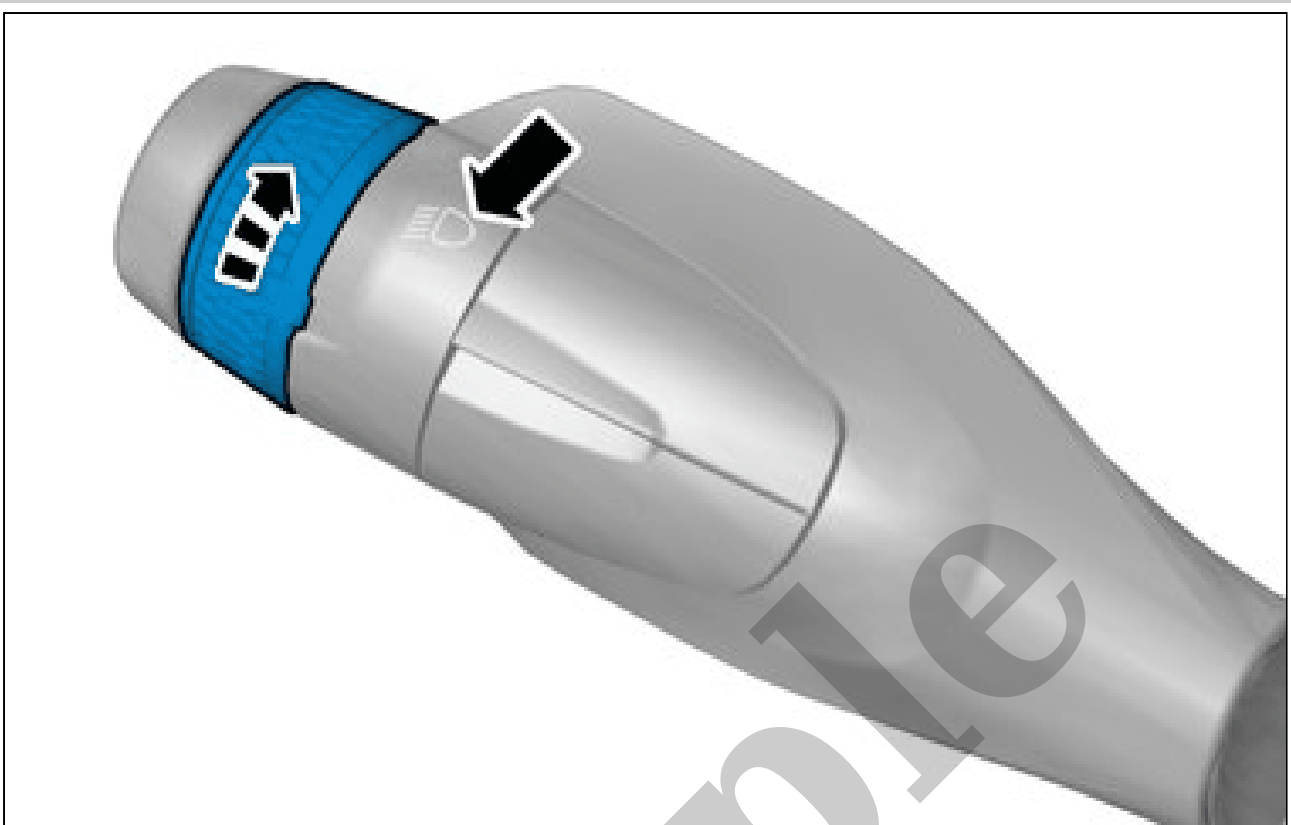
Order and download the appropriate software according to VIDA/SOFTWARE.



Courtesy of VOLVO CARS CORPORATION

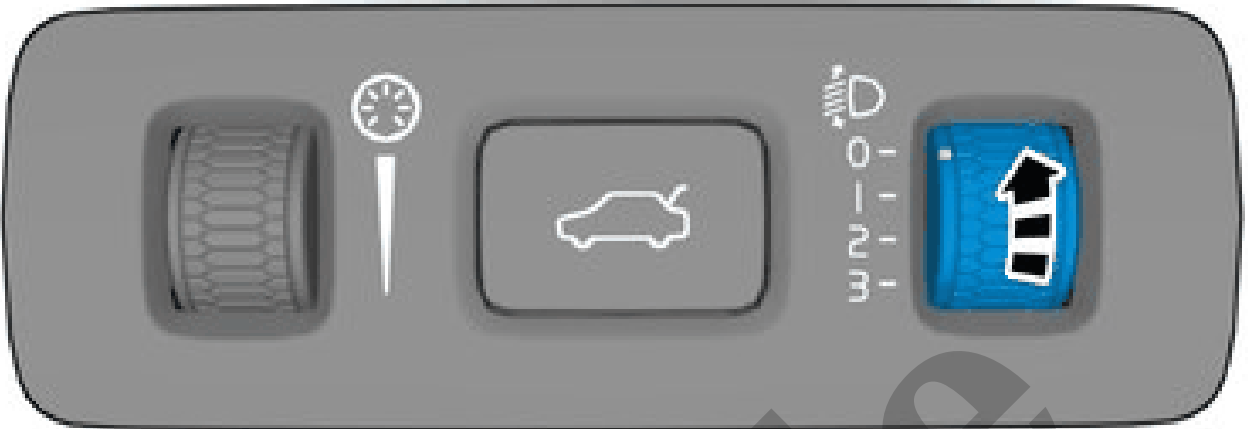
**CAUTION:** *Make sure that the components are positioned correctly.*

Place the component where indicated in the graphic.



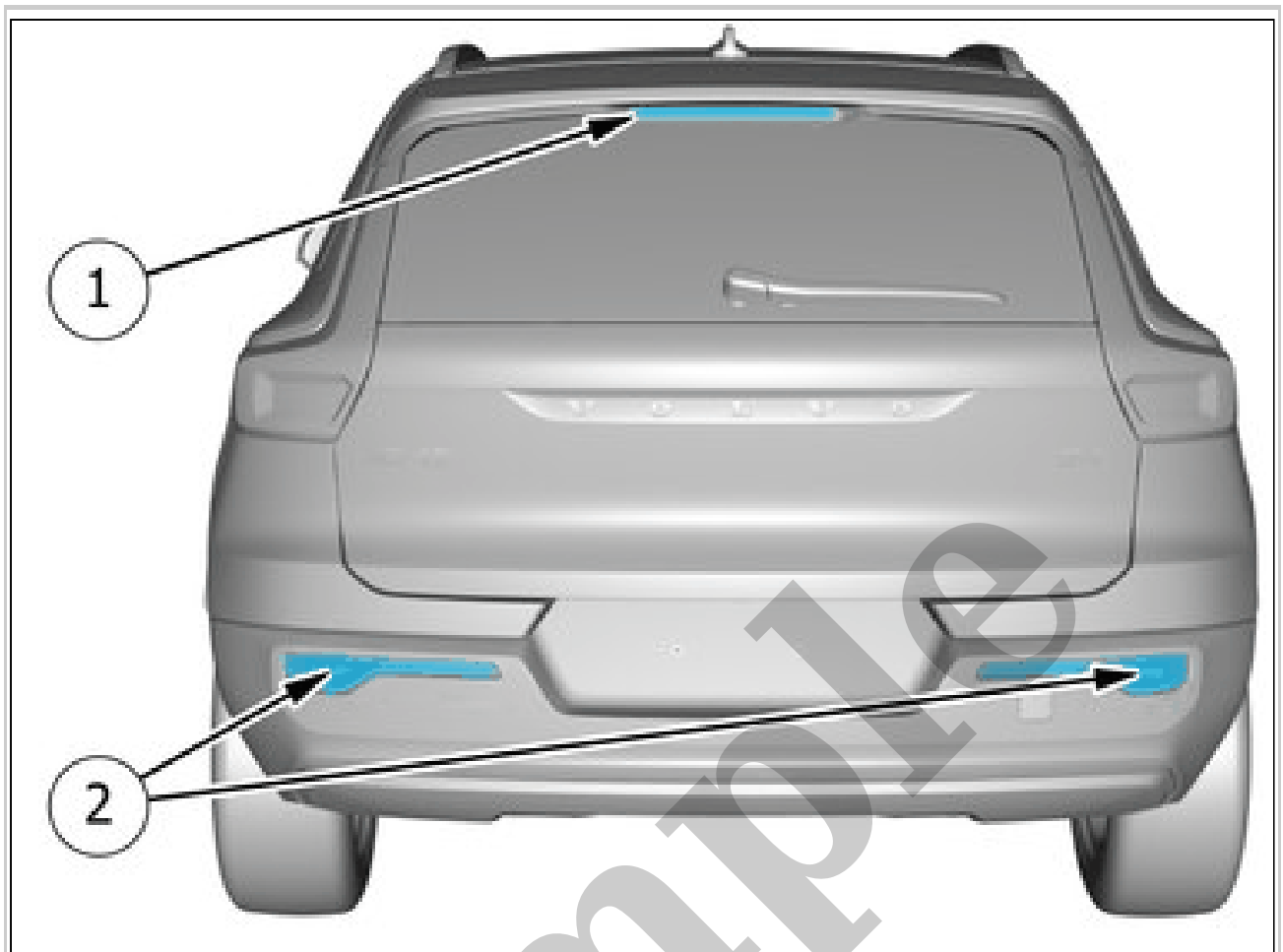
Courtesy of VOLVO CARS CORPORATION

Sample



Courtesy of VOLVO CARS CORPORATION

Sample



Courtesy of VOLVO CARS CORPORATION

1. brake light
2. fog lights

## **HEADLAMP CONTROL MODULE LEFT > HEADLAMP CONTROL MODULE LEFT (HCML) (4/112) [2018-2022] > CONNECTION AND COMMUNICATION**

The Headlamp Control Module Left (HCML) is a part of the Headlight unit, left. The HCML receives information from the Central Electronic Module (CEM) and actuates its light sources and motors according to this information. The HCML communicates with the CEM over the Body CAN exposed.

## **HEADLAMP CONTROL MODULE RIGHT > HEADLAMP CONTROL MODULE RIGHT (HCMR) (4/113) [2018-2022] > DESCRIPTION**

The Headlamp Control Module Right (HCMR) controls the headlamp light sources, motors, actuators and sensors.

## **HEADLAMP CONTROL MODULE RIGHT > HEADLAMP CONTROL MODULE RIGHT (HCMR) (4/113) [2018-2022] > DIAGNOSTIC INFORMATION**

The Headlamp Control Module Right (HCMR) has a built-in diagnostic system that monitors itself, sets DTCs and stores readable parameters.

## **HEADLAMP CONTROL MODULE RIGHT > HEADLAMP CONTROL MODULE RIGHT (HCMR) (4/113) [2018-2022] > CONNECTION AND COMMUNICATION**

The Headlamp Control Module Right (HCMR) is a part of the Headlight unit, right. The HCMR receives information from the Central Electronic Module (CEM) and actuates its light sources and motors accordingly. The HCMR communicates with the CEM over the Body CAN exposed.

## **HEADLIGHT UNIT > HEADLIGHT UNIT (10/1 - 10/2) [2018-2022] > DESCRIPTION**

The headlight unit holds the following front lights:

- Low beam and high beam
- Position lights
- Daytime running lights DRL
- Turn indicator lights and hazard warning flashers
- Side-marker lights (US market)

## **HEADLIGHT UNIT > HEADLIGHT UNIT (10/1 - 10/2) [2018-2022] > VARIANTS**

The headlamp unit is available in several variants:

Component or function	Market, customer option, vehicle model
LED light	Option
Adaptive headlight module AHM Front full LED module FFM	90-models (- 2017w46)

## **LUGGAGE COMPARTMENT LAMP > LUGGAGE COMPARTMENT LAMP (10/127 - 10/128, 10/173) [2018-2022] > DIAGNOSTIC INFORMATION**

The Central Electronic Module (CEM) monitors luggage compartment lamp and sets DTCs.

## **LUGGAGE COMPARTMENT LAMP > LUGGAGE COMPARTMENT LAMP (10/127 - 10/128, 10/173) [2018-2022] > CONNECTION AND COMMUNICATION**

The luggage compartment lamp is directly connected to the Central Electronic Module (CEM).

## **MIRROR LAMP, SUN VISOR > MIRROR LAMP, SUN VISOR (10/114, 10/115) [2018-2022] > DESCRIPTION**

The mirror lamp, sun visor illuminates the area around the mirror. The lamp and mirror is one unit and the lamp consists of a LED.

## **MIRROR LAMP, SUN VISOR > MIRROR LAMP, SUN VISOR (10/114, 10/115) [2018-2022] > DIAGNOSTIC INFORMATION**

There is no diagnostics for the mirror lamp, sun visor.

## **MIRROR LAMP, SUN VISOR > MIRROR LAMP, SUN VISOR (10/114, 10/115) [2018-2022] > CONNECTION AND COMMUNICATION**

The mirror lamp, sun visor is directly connected to the fuse box, central.

## **OVERHEAD CONSOLE > OVERHEAD CONSOLE (4/199 - 4/202) [2018-2022] > DESCRIPTION**

The overhead console consist of a LED and a button. The button controls the state of the LED.

## **OVERHEAD CONSOLE > OVERHEAD CONSOLE (4/199 - 4/202) [2018-2022] > DIAGNOSTIC INFORMATION**

The overhead console has a simplified built-in diagnostic system, which can monitor a limited amount of errors. All diagnostic data is sent to the diagnostic tool via the Central Electronic Module (CEM). Diagnostic data can include error information, part numbers, calibration results, and parameters.

## **OVERHEAD CONSOLE > OVERHEAD CONSOLE (4/199 - 4/202) [2018-2022] > CONNECTION AND COMMUNICATION**

The overhead console is a LIN slave and communicates with the Central Electronic Module (CEM) and the Overhead Console (OHC).



- Brake lights (LED)
- Fog lights (LED)
- Position lights (LED), also work as side-marker lights
- Turn signal lights and hazard warning flashers (LED)

## **TAIL LIGHT > TAIL LIGHT (10/314 - 10/315) [2018-2022] > VARIANTS**

<b>Component or function</b>	<b>Market, customer option, vehicle model</b>
Tail light without LIN	-MY 2019
Tail light with LIN	MY 2020-

## **TAIL LIGHT > TAIL LIGHT (10/314 - 10/315) [2018-2022] > DIAGNOSTIC INFORMATION**

The tail light does not have a built-in diagnostic system. The Central Electronic Module (CEM) monitors the tail light and sets DTCs.

## **TAIL LIGHT > TAIL LIGHT (10/314 - 10/315) [2018-2022] > CONNECTION AND COMMUNICATION**

The tail light is connected to the Central Electronic Module (CEM) directly or via LIN.

## **TREADPLATE LED > TREADPLATE LED (10/249 - 10/252) [2018-2022] > DESCRIPTION**

The treadplate LED consist of a LED and light guide that is used to illuminate the treadplate when entering and exiting the vehicle.

## **TREADPLATE LED > TREADPLATE LED (10/249 - 10/252) [2018-2022] > DIAGNOSTIC INFORMATION**

The Central Electronic Module (CEM) monitors the treadplate LED and sets DTCs.

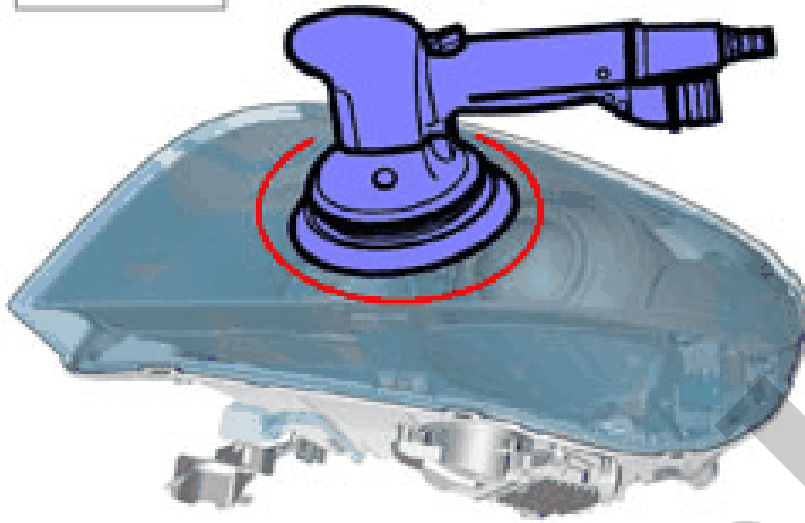
## **TREADPLATE LED > TREADPLATE LED (10/249 - 10/252) [2018-2022] > CONNECTION AND COMMUNICATION**

The treadplate LED is directly connected to the Central Electronic Module (CEM).

## **TUNNEL CONSOLE ILLUMINATION > TUNNEL CONSOLE ILLUMINATION (10/328) [2018-2022] > DESCRIPTION**

Tunnel console illumination is an LED that illuminates the ashtray or small storage box in front of the gear shifter.

P 180



Courtesy of VOLVO CARS CORPORATION

Sample