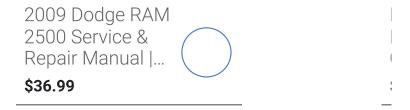
Manuals
Defender OM
Defender SM
New
Top
Sitemap



## Land Rover Defender: Front Proximity Camera

Land Rover Defender 2020-2024 Service Manual / Electrical / Instrumentation and Warning Systems / Parking Aid / Front Proximity Camera



#### **REMOVAL AND INSTALLATION**

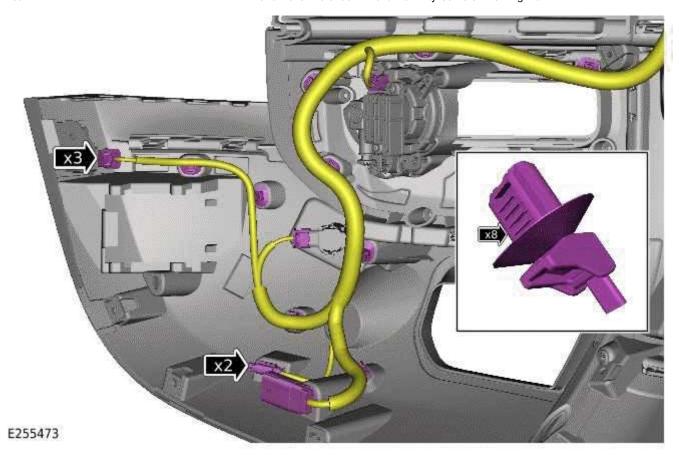
#### REMOVAL

#### **NOTES:**

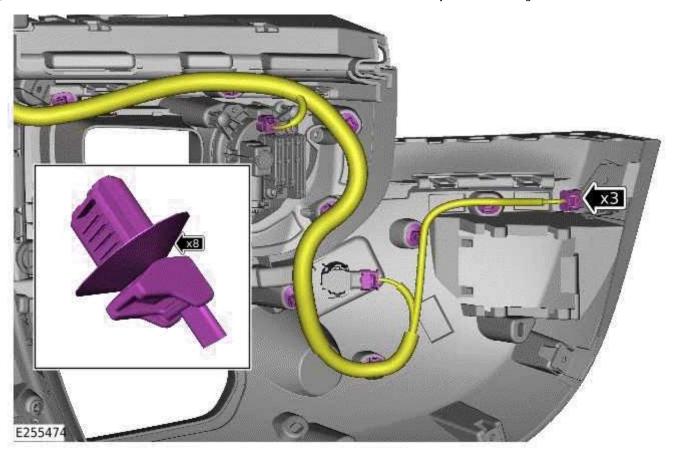
- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.
- This procedure contains illustrations showing certain components removed to provide extra clarity.
- The ignition must be switched off.
- 1. Raise and support the vehicle on a suitable 2-post lift.
- 2. With assistance, remove the front bumper.

3.

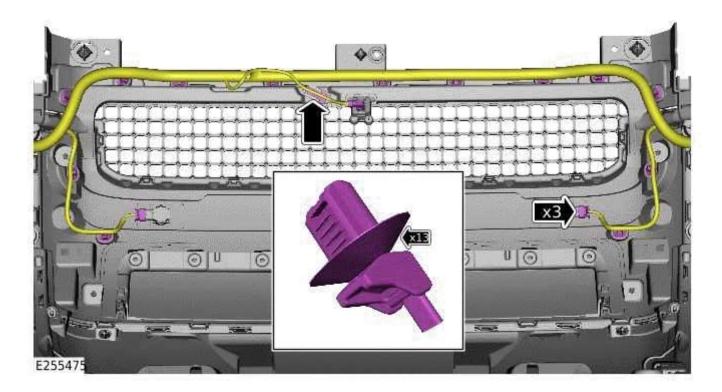
Q



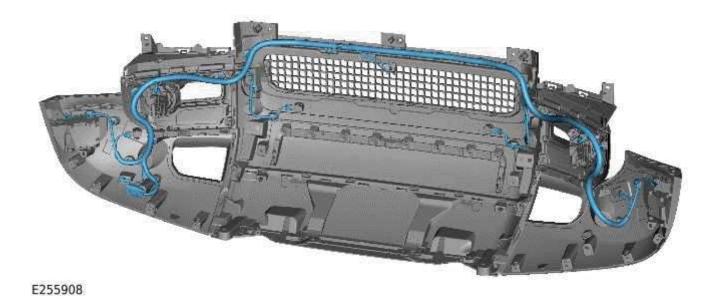
- Disconnect the 3 electrical connectors.
- Release the front bumper wiring harness at 8 clips.
- Release the 2 electrical connectors from the front bumper.



- Disconnect the 3 electrical connectors.
- Release the front bumper wiring harness at 8 clips.



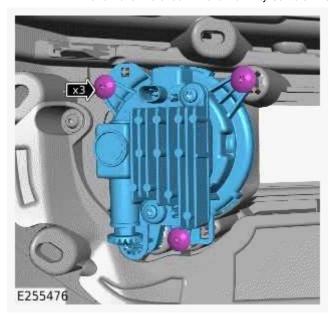
- Disconnect the 3 electrical connectors.
- Release the front bumper wiring harness at 14 clips.



Remove the front bumper wiring harness.

7.

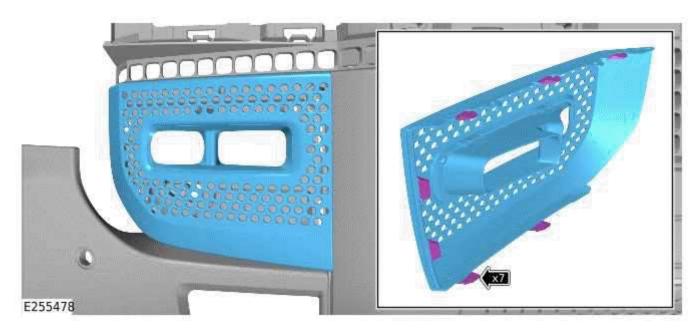
## NOTE: Repeat the step for the other side.



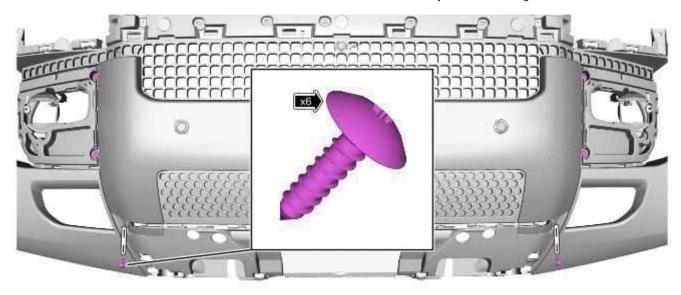
- Remove the 3 screws.
- Remove the front fog lamp.

**CAUTION:** Take extra care not to damage the clips.

NOTE: Repeat this step for the other side.



- Release the 7 clips.
- Remove the fog lamp finisher.

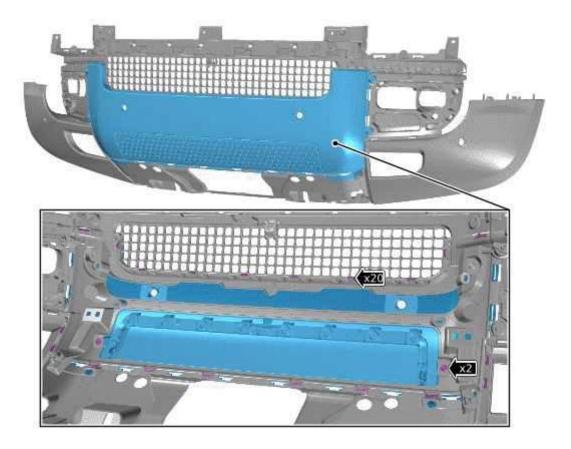


#### E258643

• Remove the 6 screws.

10.

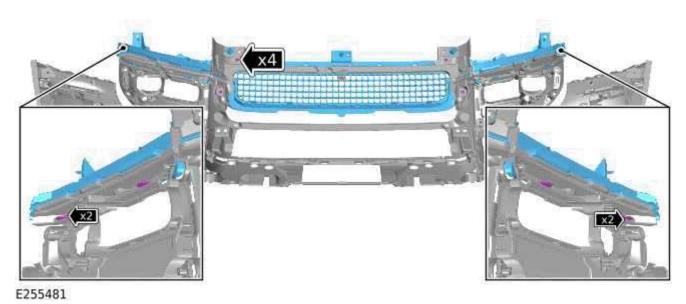
## CAUTION: Take extra care not to damage the clips.



#### E255480

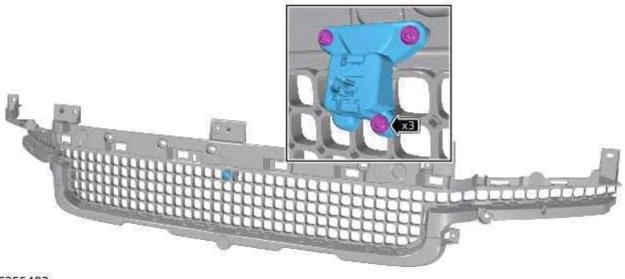
- Remove the 2 screws.
- Release the 20 clips.
- Remove the front bumper protector.

## **CAUTION:** Take extra care not to damage the clips.



- Remove the 4 screws.
- Release the 4 clips.
- Remove the front bumper lower grille.

#### 12.



#### E255482

- Remove the 3 screws.
- Remove the front proximity camera.

#### **INSTALLATION**

1.

- Install the front proximity camera to the front bumper lower grille.
- Install and tighten the 3 screws.

Torque: 4Nm

#### NOTE: Make sure that all the clips are correctly installed.

- Install the front bumper lower grille to the front bumper.
- Install and tighten the 4 screws.

Torque: 4Nm

3.

#### NOTE: Make sure that all the clips are correctly installed.

- Install the front bumper protector.
- Install and tighten the 2 inside screws.

Torque: 4Nm

• Install and tighten the 6 outside screws.

Torque: 4Nm

4.

#### NOTE: Make sure that all the clips are correctly installed.

Install the 2 fog lamp finishers on both sides.

5.

- Install the 2 front fog lamps on both sides.
- Install and tighten the 6 screws.

Torque: 1.5Nm

6.

#### NOTE: Make sure that all the clips are correctly installed.

- Install the front bumper wiring harness.
- Secure the front bumper wiring harness at the 30 clips.
- Connect the 9 electrical connectors.
- Secure the 2 electrical connectors to the front bumper.
- 7. With assistance, install the front bumper.

8.

# NOTE: Make sure that the camera calibration cycle is completed following removal or replacement of the proximity camera.

- Proximity camera calibration:
- To complete the side camera proximity calibration, drive the vehicle in a city like or rural scenario with sufficient visual structure for approximately 5-10 minutes.
- Drive straight ahead between 5 and 60 km/h (3 and 37 mph), with a sufficient side cameras free field of view of around 5 meters.