

Published: 11-May-2011

Bumpers -

Product	Part Number
Rear bumper PDC sensor mounting adhesive	3M 8005B35


Torque Specifications

Description	Nm	lb-ft
Front bumper bolts to body	48	35
Front bumper cover fixing to fender bracket	4	3
Front bumper cover fixing to hood latch panel	3	2
Front bumper cover fixing to undertray	4	3
Rear bumper bolts to body	30	22
Rear bumper cover fixing behind lamp assembly	2	1
Rear bumper cover screws	2	1
Rear bumper cover to bracket bolts	4	3
Fender splash shield screws	2	1

Bumpers - Front Bumper Cover

Removal and Installation

Removal

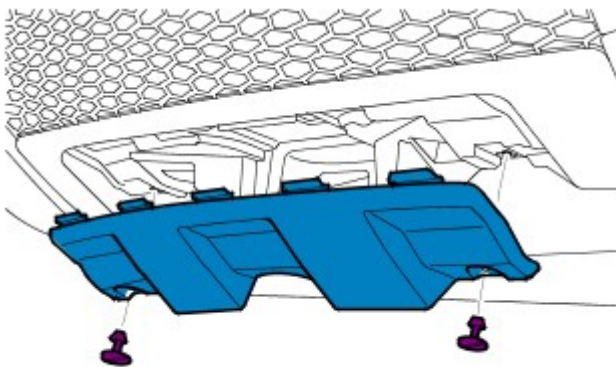
1.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

Raise and support the vehicle.

2. Remove the front wheels and tires.

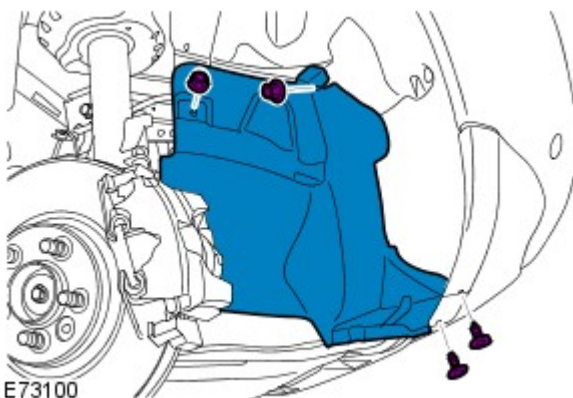
Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

3. Remove the towing eye cover.



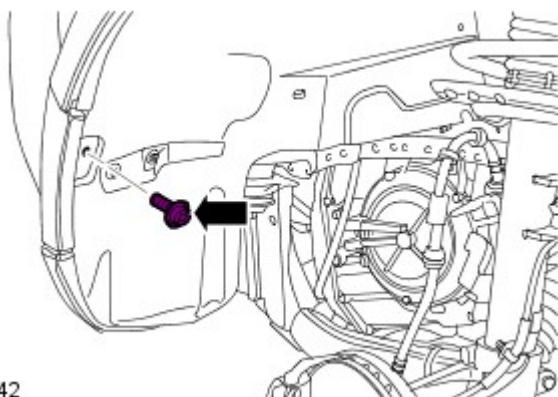
E73341

4. Remove the front RH and LH splash shields.

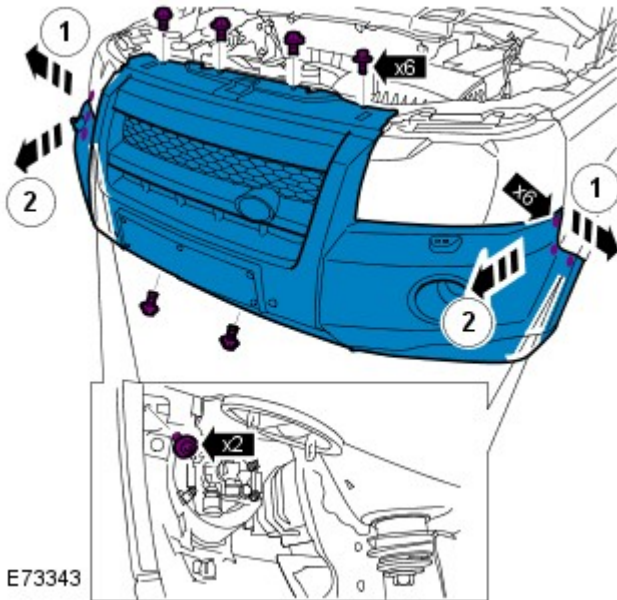


E73100

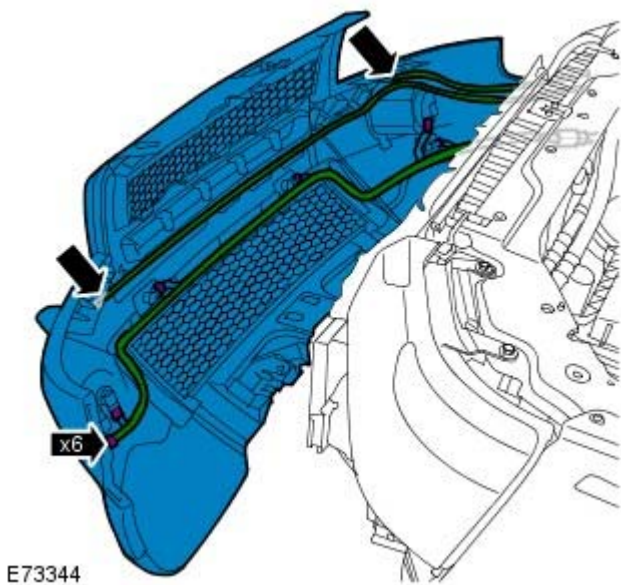
5. Release the front bumper cover from the RH and LH fender splash shields.



E73342

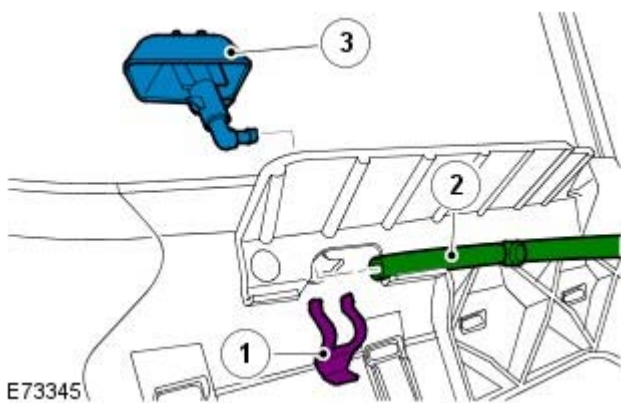


6. With assistance, release the front bumper cover.



7. **NOTE:** Some fluid spillage is inevitable during this operation.

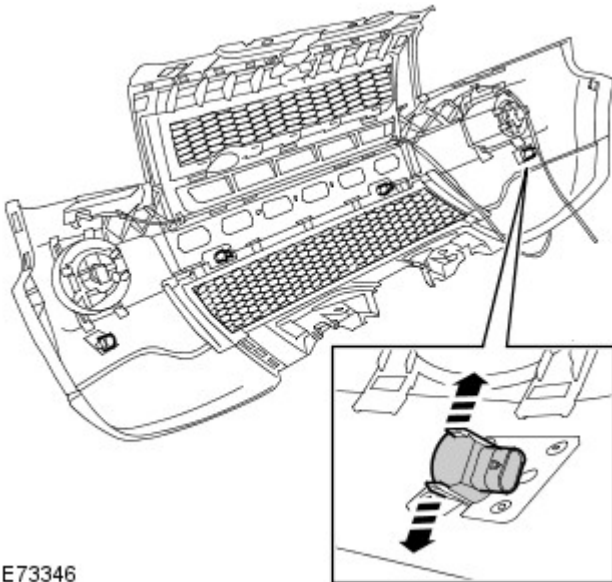
With assistance, remove the front bumper cover.



8. **NOTE:** Do not disassemble further if the component is removed for access only.

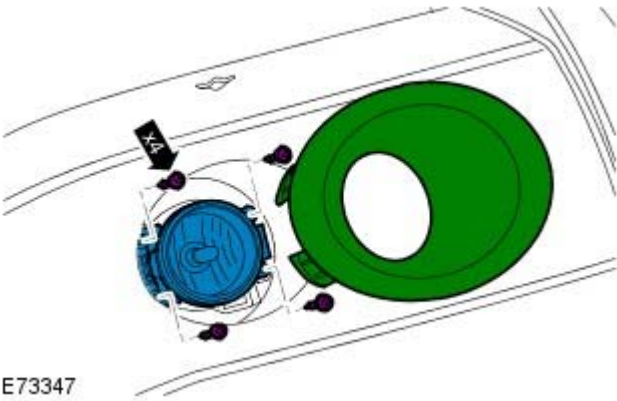
Remove the 2 washer jets.

9. Remove the 4 parking aid sensors.



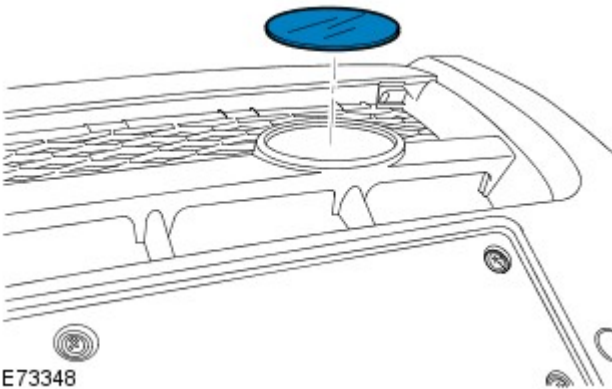
E73346

10. Remove the front fog lamps.



E73347

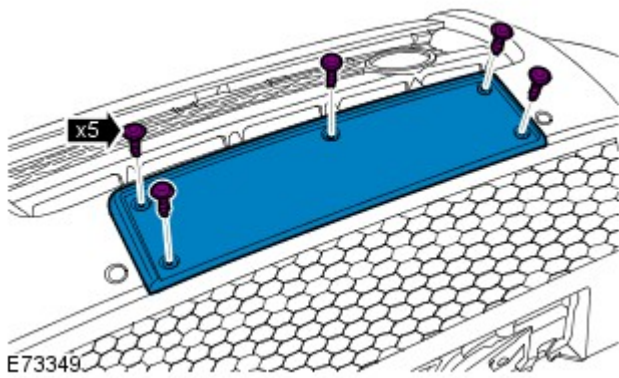
11. Carefully remove the decal.



E73348

12. If installed: Remove the license plate.

13. If installed: Remove the license plate panel.




Installation

1. If installed, install the license plate panel.
2. If installed, install the license plate.
3. Install the decal.
4. Install the front fog lamps.
5. Install the parking aid sensors.
6. Install the washer jets.
7. With assistance, install the front bumper cover and tighten the fixings to 10 Nm (7 lb.ft).
8. Install the splash shields.
9. Install the towing eye cover.

Bumpers - Front Bumper

Removal and Installation

Removal

1.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

Raise and support the vehicle.

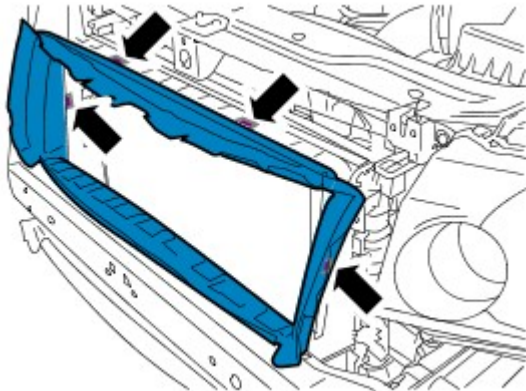
2. Remove the front wheels and tires.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

3. Remove the front bumper cover.

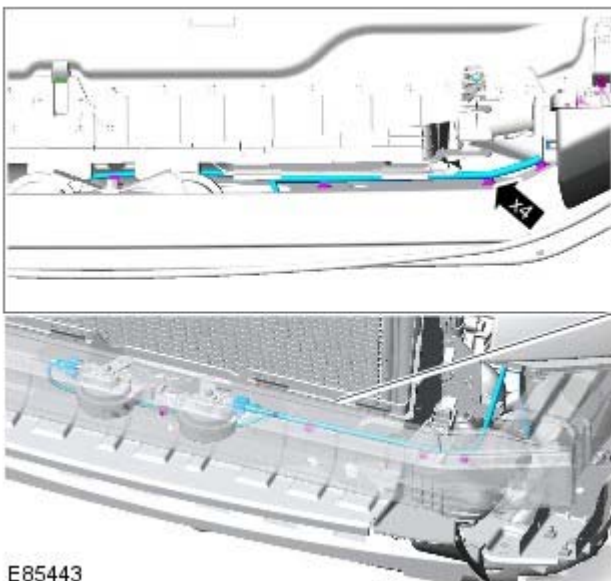
Refer to: [Front Bumper Cover](#) (501-19 Bumpers, Removal and Installation).

4.

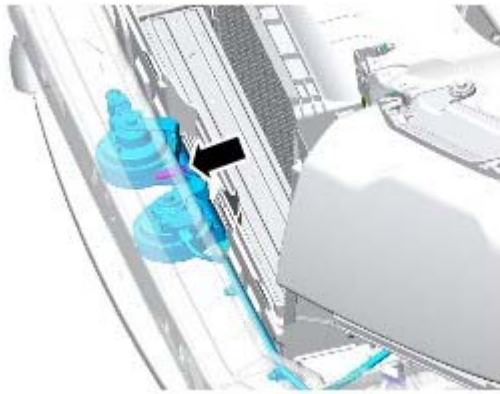


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5.

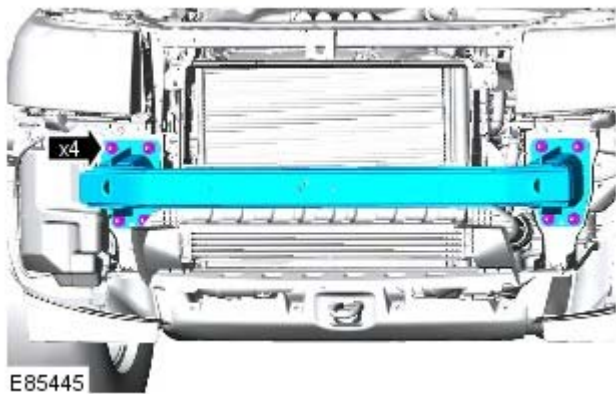


E85443



E85444

6.
 - Tie the horns aside.
 - *Torque: 25 Nm*



E85445

7.  **WARNING:** This step requires the aid of another technician.

Torque: 48 Nm

Installation


1. To install, reverse the removal procedure.

Bumpers - Rear Bumper Cover

Removal and Installation

Removal

NOTE: New bumper covers are supplied without the four holes for the park distance control sensors.

1.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

Raise and support the vehicle.

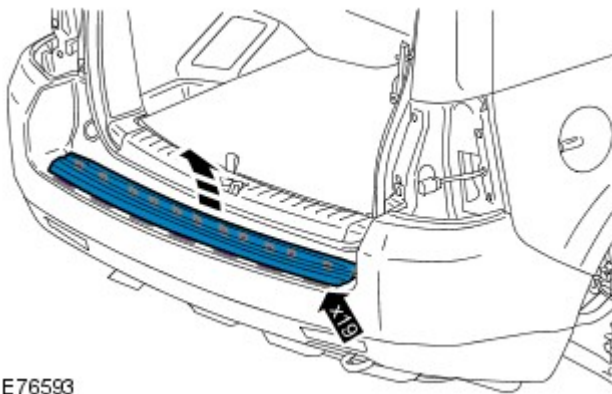
2. Remove both rear wheels and tires.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

3. Remove the rear lamp assemblies.

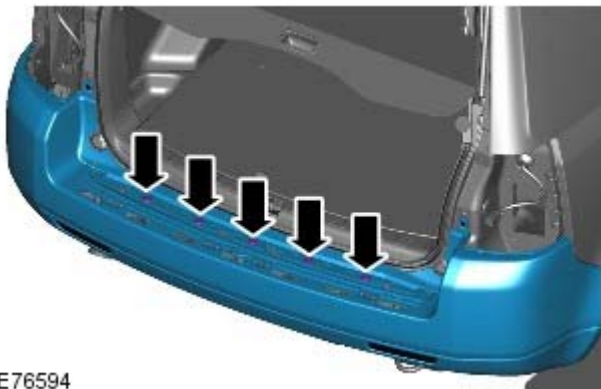
Refer to: [Rear Lamp Assembly](#) (417-01 Exterior Lighting, Removal and Installation).

4.



E76593

5.



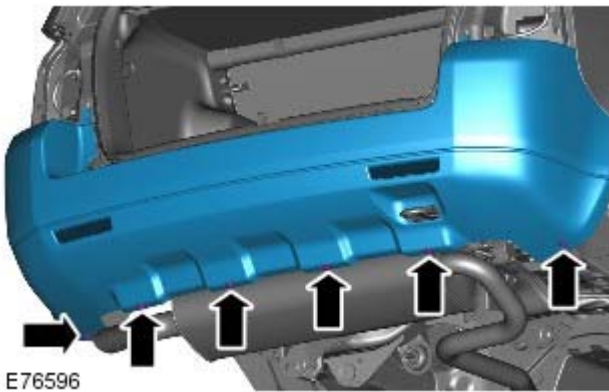
E76594

6.



E76595

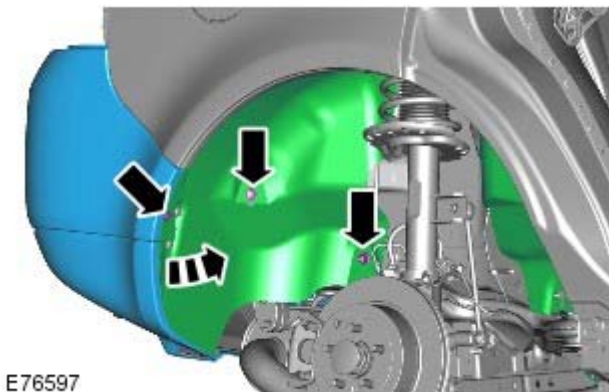
7.



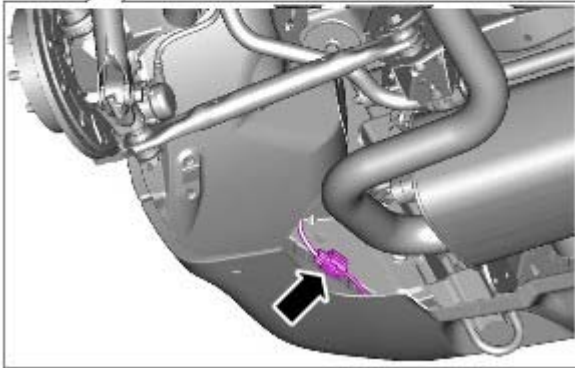
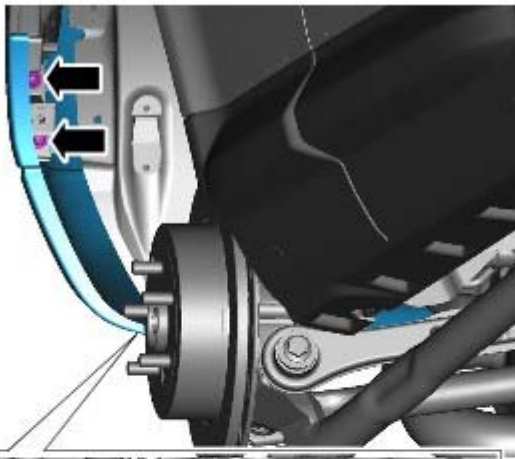
E76596

8.

- Release the rear lower edge of the rear fender splash shield.
- Repeat the above procedure for the other side.

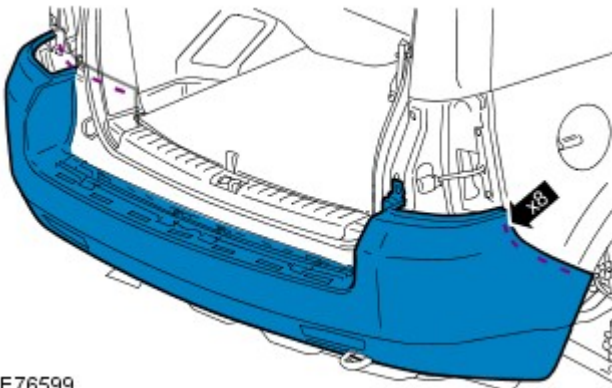


E76597



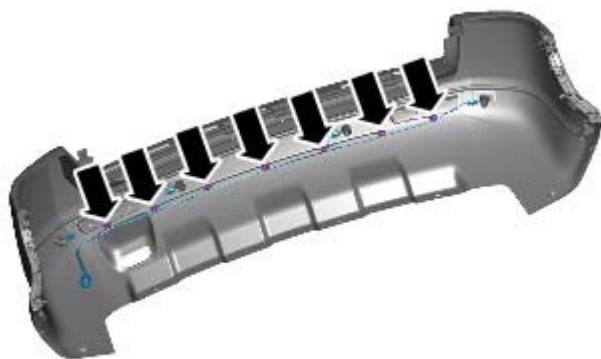
E 76598

- 9.
- If installed, disconnect the parking aid sensor wiring harness electrical connector.
 - Repeat the above procedure for the other side.



E76599

10.

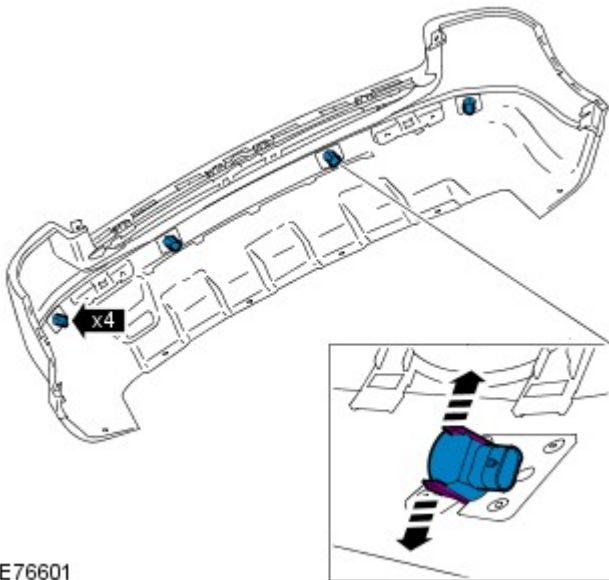


E76600

11. **NOTE:** Do not disassemble further if the component is removed for access only.

If installed, remove the parking aid sensor wiring harness.

12. If installed, remove the 4 parking aid sensors.



E76601

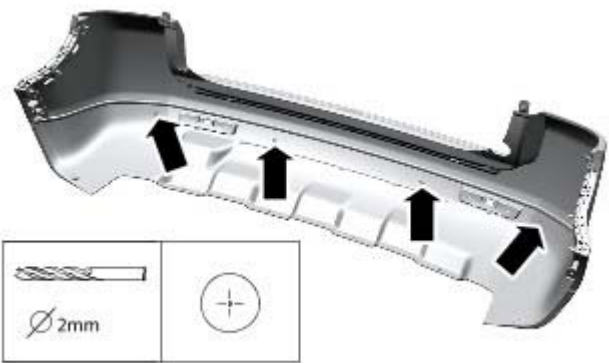
- 13.



E76602

Installation

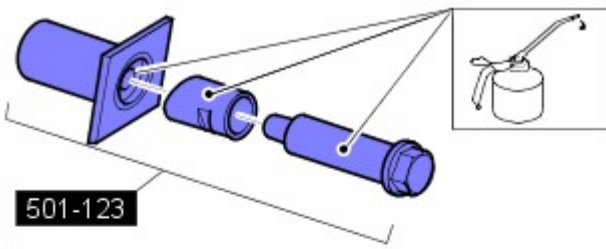
- 1.



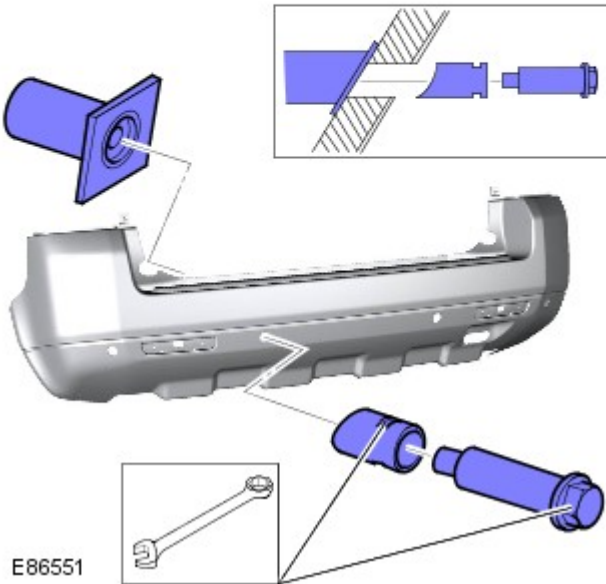
E86549



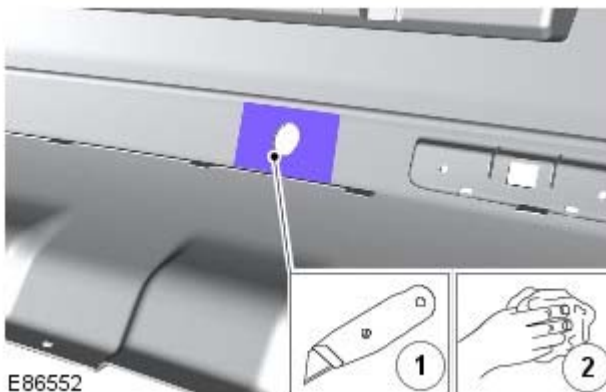
E86550



501-123




E86551

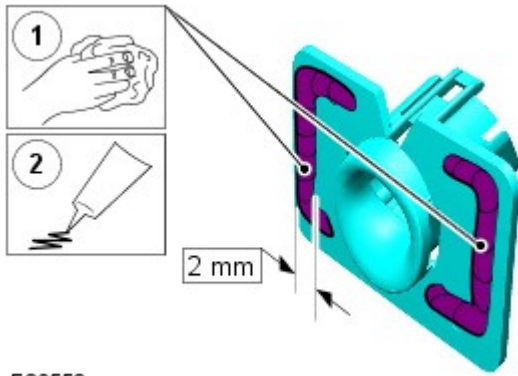


E86552


2.

3.  **CAUTION:** Align the special tool cutting edge with the contour of the bumper cover. Make sure it does not rotate while cutting the hole.

4.

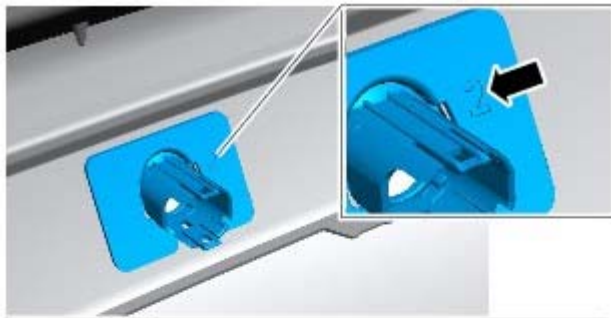



E86553

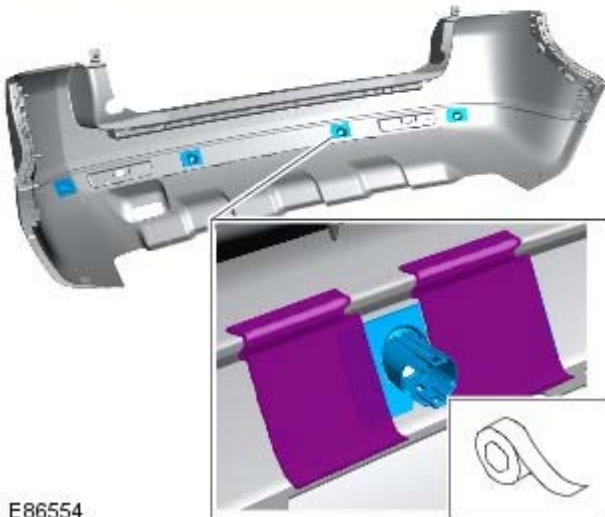
5.  **CAUTION:** To avoid excess adhesive being pushed through the cut bumper hole when fitting the trims, ensure the adhesive is applied as illustrated.

For adhesive information, refer to the specification section.

Refer to: [Specifications](#) (501-19 Bumpers, Specifications).



6.  **CAUTION:** Allow adhesive to cure for 2 hours before proceeding to fit bumper.



E86554

7. Install the reflectors.
8. Install the parking aid sensors.
9. Install the parking aid sensor wiring harness.
10. Install the rear bumper cover.
11. Secure the fender splash shield.
12. Install the bumper cover trim panel.
13. Install the rear lamp assemblies.

Refer to: [Rear Lamp Assembly](#) (417-01 Exterior Lighting, Removal and

Installation).


14. Install the wheels and tires.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

Bumpers - Rear Bumper

Removal and Installation

Removal

1.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

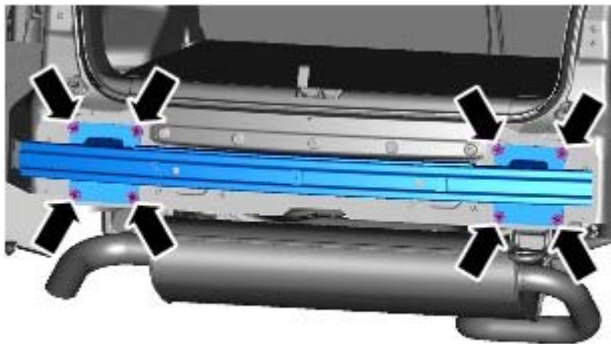
Raise and support the vehicle.

2. Remove both rear wheels and tires.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

3. Remove the rear bumper cover.

Refer to: [Rear Bumper Cover](#) (501-19 Bumpers, Removal and Installation).



E76589

- 4.

-  **WARNING:** Make sure that new nuts are installed.

Torque: 30 Nm

Installation

1. To install, reverse the removal procedure.