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2017 FORD Ranger Regular Cab OEM Service and Repair Workshop Manual

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No GO to [V4](#)

V2 CHECK FOR VOLTAGE TO THE POWER TELESCOPING MIRROR CONTROL SWITCH

- Ignition OFF.
- Disconnect Power Telescoping Mirror Control Switch C5020 .
- Ignition ON.
- Measure:

| Positive Lead | Measurement / Action | Negative Lead |
|---------------|----------------------|---------------|
| C5020-3 | \bar{V} | Ground |
| C5020-7 | \bar{V} | Ground |

Is the voltage present ?

Yes Repair the circuit.

No GO to [V3](#)

V3 CHECK FOR GROUND TO THE POWER TELESCOPING MIRROR CONTROL SWITCH

- Ignition OFF.
- Measure:

| Positive Lead | Measurement / Action | Negative Lead |
|---------------|----------------------|---------------|
| C5020-4 | Ω | Ground |

Is any voltage present?

| | |
|------------|------------------------------------|
| Yes | REPAIR the circuit(s) in question. |
|------------|------------------------------------|

| | |
|-----------|--------------------------|
| No | GO to V5 |
|-----------|--------------------------|

V5 CHECK THE POWER TELESCOPING MIRROR CONTROL CIRCUITS FOR A SHORT TO GROUND

- Ignition OFF.
- Measure:

LH (left-hand) exterior mirror

| Positive Lead | Measurement / Action | Negative Lead |
|---------------|----------------------|---------------|
| C521-16 | Ω | Ground |
| C521-17 | Ω | Ground |

RH (right-hand) exterior mirror

| Positive Lead | Measurement / Action | Negative Lead |
|---------------|----------------------|---------------|
| C622-16 | Ω | Ground |
| C622-17 | Ω | Ground |

Are the resistances greater than 10,000 ohms?

| | |
|------------|--------------------------|
| Yes | GO to V6 |
|------------|--------------------------|

- Inspect the exterior mirror jumper harness between the vehicle harness and the mirror motors for:
 - Open or short circuits
 - Damaged or pushed out pins
 - Corrosion

Is the harness OK?

| | |
|------------|---|
| Yes | INSTALL a new exterior mirror. REFER to: Exterior Mirror - Vehicles With: Long Arm Mirrors (501-09 Rear View Mirrors, Removal and Installation). REFER to: Exterior Mirror - Vehicles With: Short Arm Mirrors (501-09 Rear View Mirrors, Removal and Installation). |
| No | REPAIR the harness as necessary. If the harness cannot be repaired, INSTALL a new exterior mirror. REFER to: Exterior Mirror - Vehicles With: Long Arm Mirrors (501-09 Rear View Mirrors, Removal and Installation). REFER to: Exterior Mirror - Vehicles With: Short Arm Mirrors (501-09 Rear View Mirrors, Removal and Installation). |

1. Fold or retract both mirrors by hand.
2. Using the power folding/power telescoping mirror switch, operate the mirrors until an audible click is heard.
3. Operate the power folding or power telescoping mirrors an additional 3 to 4 times to synchronize the mirrors.
4. For vehicles equipped with the mirror control switch integral to the window switch, refer to the video below.

Video version of this procedure:

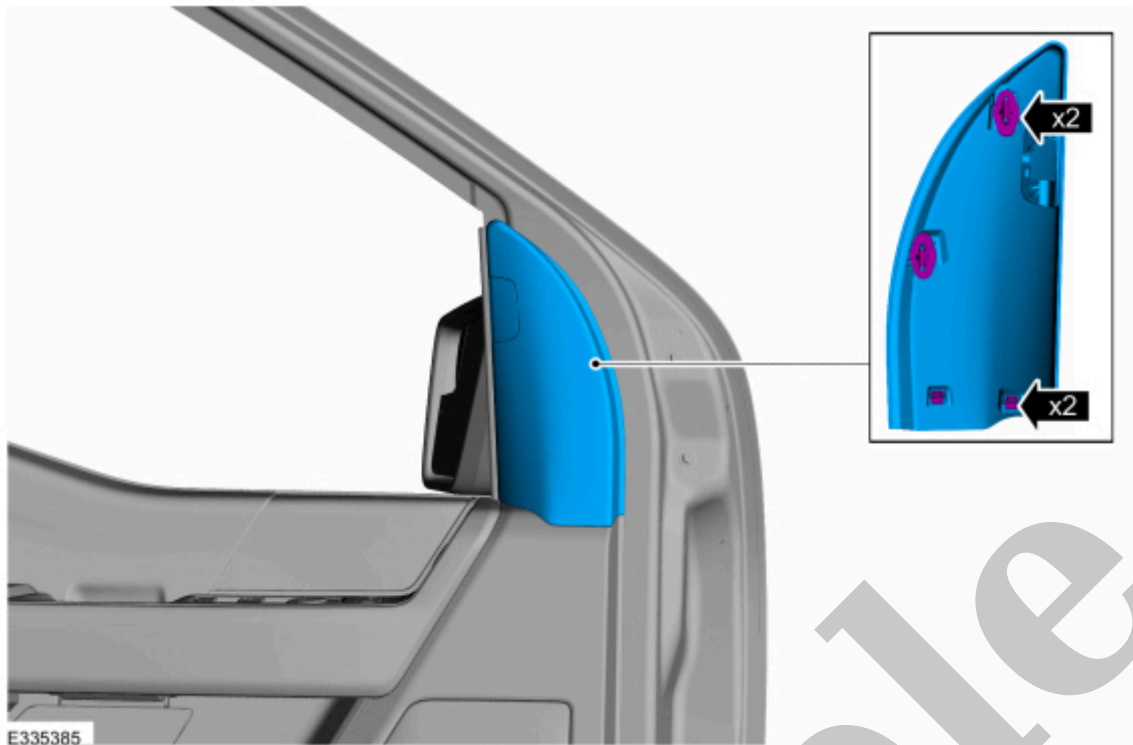
(https://www.fordservicecontent.com/Ford_Content/videos/WorkShopManual/F1917.mp4)

5. For vehicles equipped with the stand alone mirror control switch, refer to the video below.

Video version of this procedure:

(https://www.fordservicecontent.com/Ford_Content/videos/WorkShopManual/F2000.mp4)

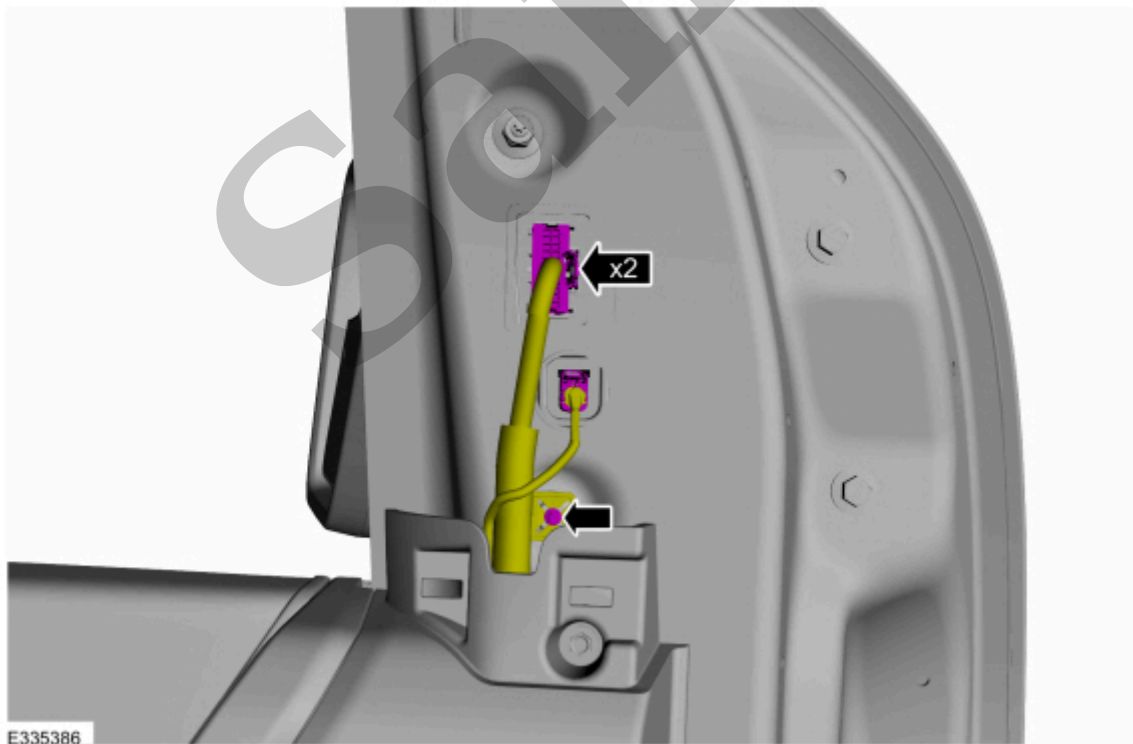
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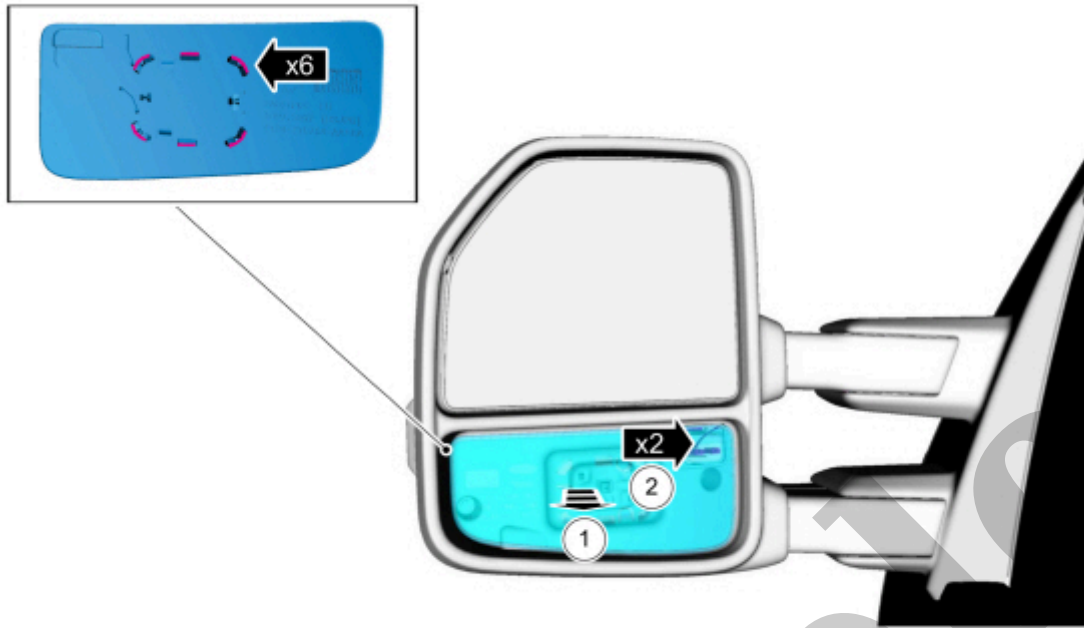
3. If equipped.

Disconnect the exterior mirror electrical connectors and separate the wiring harness guide.



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2. If equipped, disconnect the exterior mirror lower glass electrical connectors.



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Exterior mirror glass upper

6. NOTICE

Position the screwdriver using the service slot in the mirror glass backing plate to remove the mirror glass. Prying on the backing plate in other locations may damage the mirror glass.

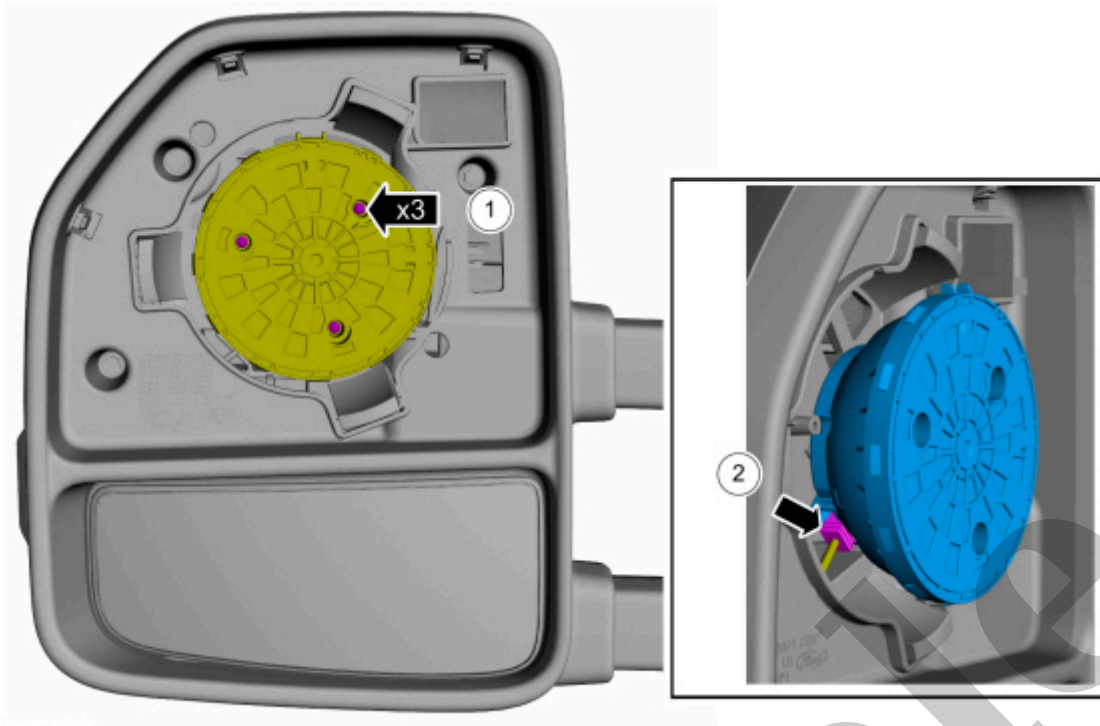
Remove the exterior mirror upper glass.

1. Position the mirror glass in and up.
2. Using a flat blade screwdriver separate the exterior mirror upper glass from the exterior mirror motor.

3. NOTE

The number and location of the electrical connectors will vary based on mirror option content.

Disconnect the exterior mirror upper glass electrical connectors.



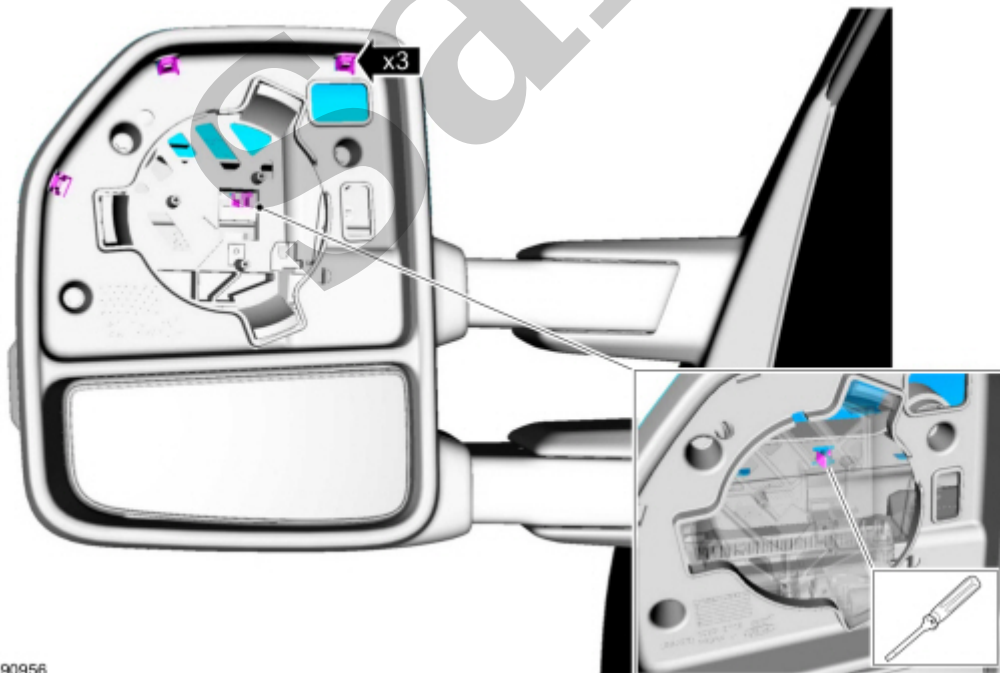
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Exterior mirror cover

9. Remove the exterior mirror upper glass.

10. Release the tabs and remove the upper exterior mirror cover.



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Exterior mirror mounted turn signal

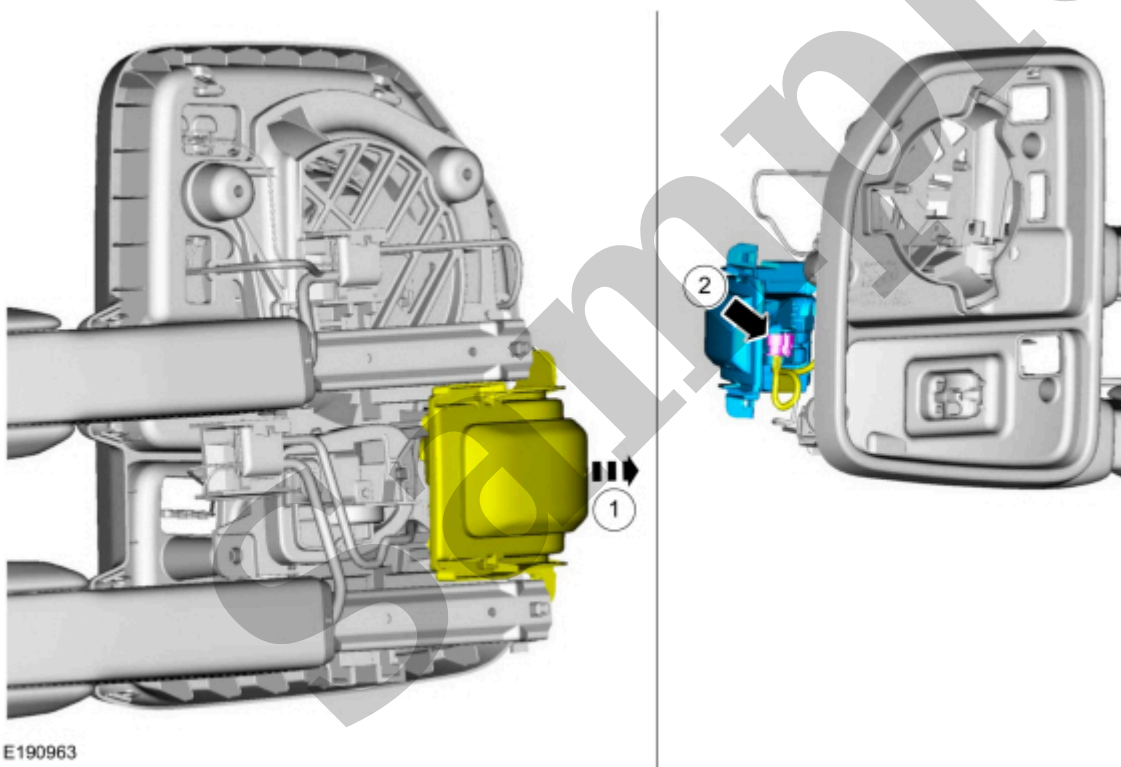
14. Remove the exterior mirror upper and lower covers.

15. **NOTE**

The turn signal assembly also contains the spotlamp and parking lamp functions depending on option content.

Remove the exterior mirror mounted turn signal.

1. Position the exterior mirror mounted turn signal aside.
2. Disconnect the exterior mirror mounted turn signal electrical connector.

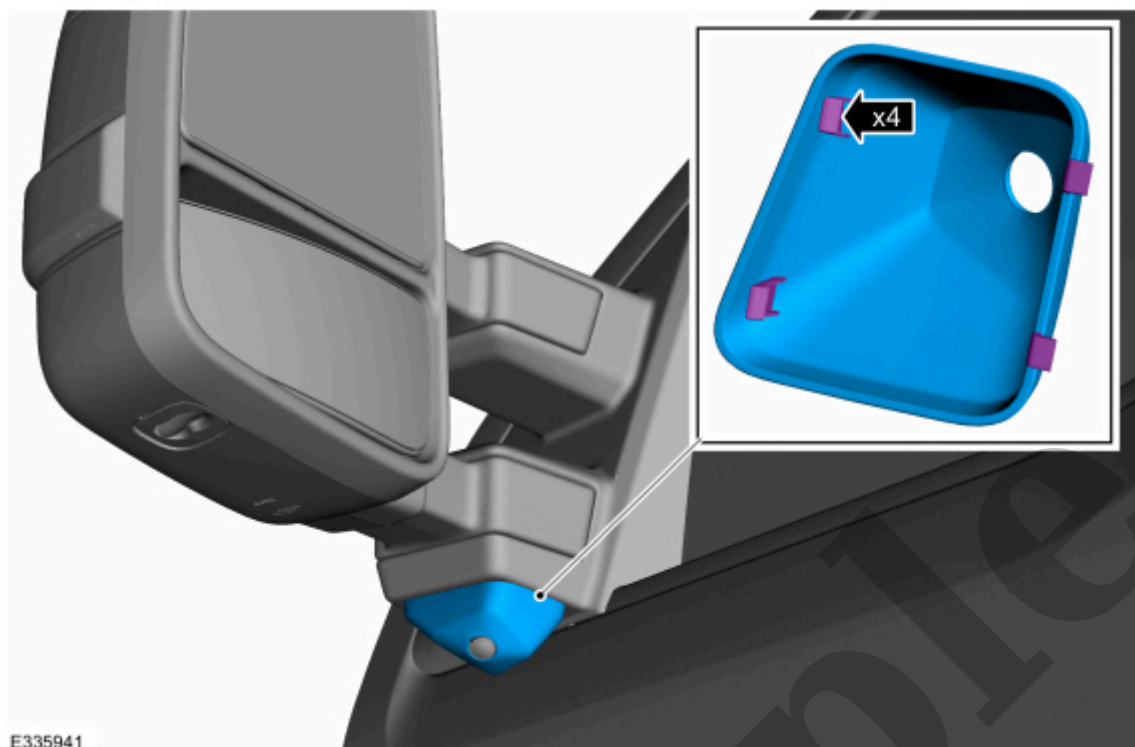


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Puddle lamp

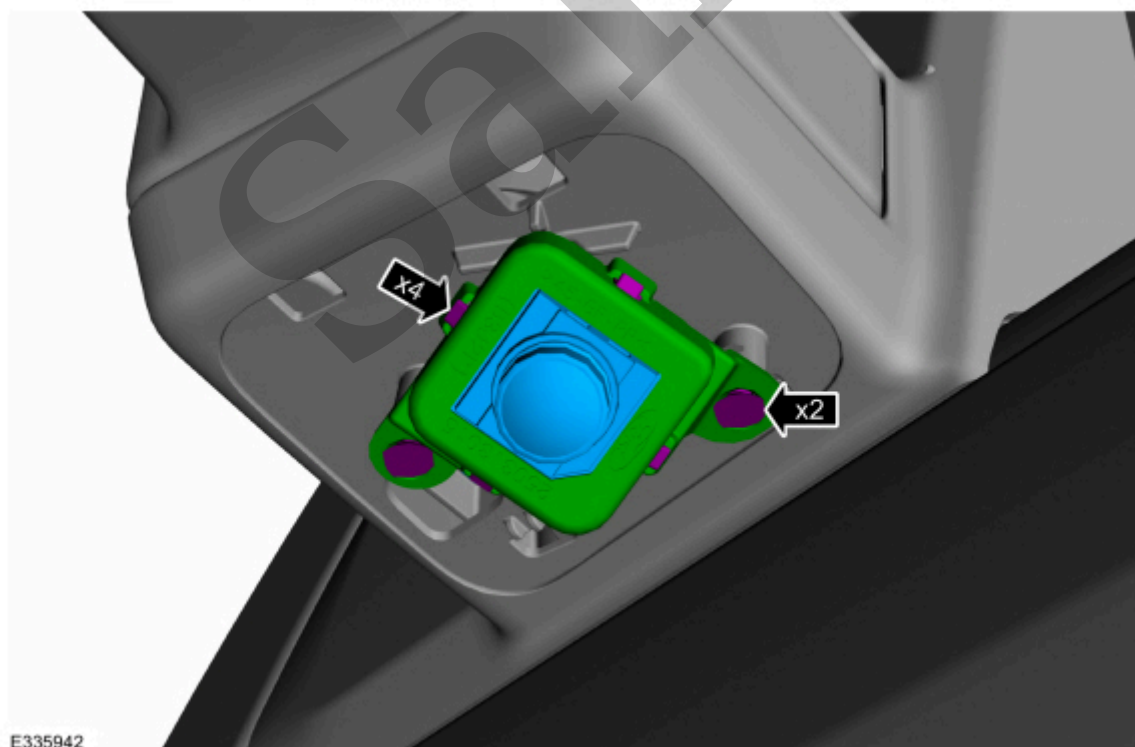
16. 1. Using a small flat blade screwdriver, release the puddle lamp retaining tab.
2. Position the puddle lamp down.

18. Remove the camera cover.



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19. Remove the screws, release the tabs and remove camera holding cover and camera.



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