

# 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.

## 1999 FORD Focus Wagon OEM Service and Repair Workshop Manual

[Go to manual page](#)



## Parking Aid Camera Initialization

<b>413-13B Parking Aid - Vehicles With: Parking Aid Camera</b>	<b>2022 F-150</b>
<b>General Procedures</b>	<b>Procedure revision date: 10/23/2021</b>

### Parking Aid Camera Initialization

#### NOTE

On vehicles equipped with Trailer Reverse Guidance (TRG) complete this procedure and also perform the Trailer Reverse Guidance camera alignment.

1. Using a scan tool select the controlling module for the parking aid camera(s).
  1. Refer to the wiring diagram to identify the camera controlling module.  
Refer to Wiring Diagrams Cell 145 for schematic and connector information.
  2. Select the controlling module on the diagnostic scan tool screen.
2. Carry out the LIN (local interconnect network) new module initialization.
3. Follow the on-screen instructions.
4. Check the vehicle for the active guidelines option. Refer to description and operation in the appropriate vehicle section.
5. If equipped with active guidelines, drive the vehicle on a flat, smooth road at 32 km/h (20 mph) or more, with hands placed loosely on the steering wheel and minimal steering correction for approximately 30 seconds.



E330472

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

3. Remove the screws and the front camera washer and bracket as an assembly.



E330479

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

4. Remove the front parking aid camera.



# Rear Parking Aid Camera

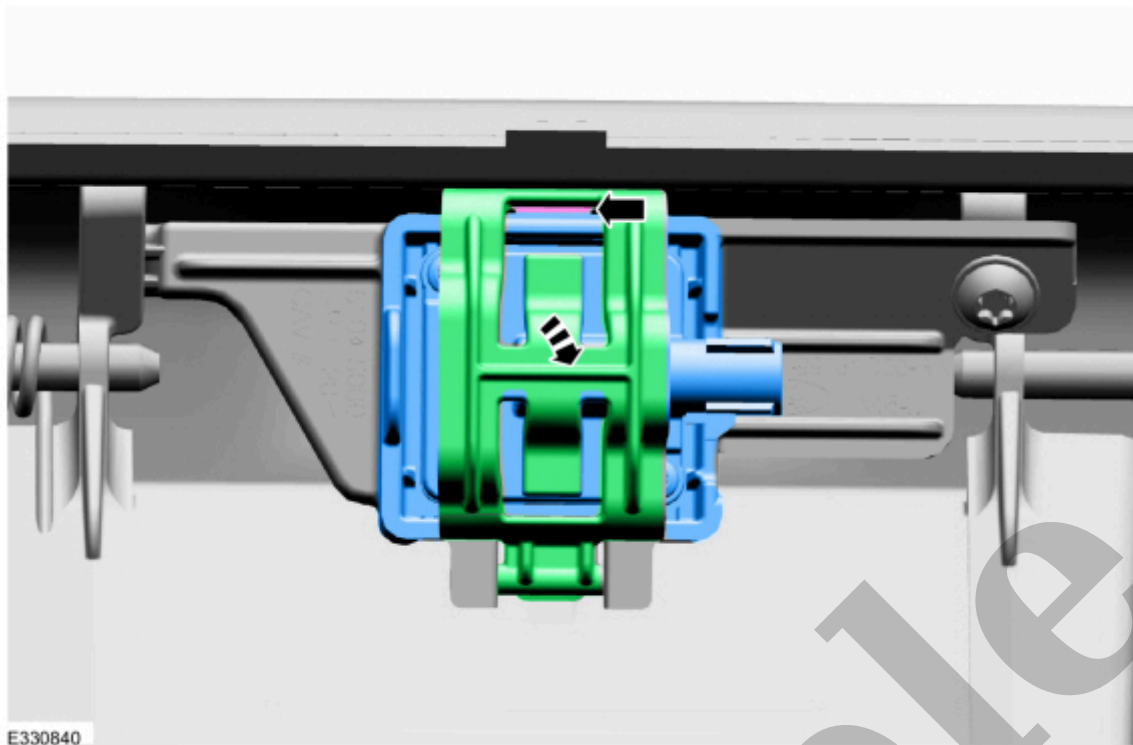
<i>413-13B Parking Aid - Vehicles With: Parking Aid Camera</i>	<i>2022 F-150</i>
<i>Removal and Installation</i>	<i>Procedure revision date: 03/3/2022</i>

## Rear Parking Aid Camera

### Removal

#### Vehicles equipped with tailgate release handle mounted analog cameras

1. Remove the tailgate release handle.  
  
Refer to: [Tailgate Release Handle](#)(501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
2. Release the tab and remove the rear parking aid camera bracket.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

#### **Vehicles with high mounted stoplamp with camera**

##### **5. NOTICE**

To prevent damage to the center high mounted stop lamp connectors, refer to removal details in the referenced procedure.

Remove the high mounted stoplamp.

Refer to: [High Mounted Stoplamp](#)(417-01 Exterior Lighting, Removal and Installation).

6. Remove the screws, the bracket and the high mounted stoplamp camera.

## All vehicles

1. To install, reverse the removal procedure.

## Vehicles equipped with analog cameras

2. Using a diagnostic scan tool, initialize the parking aid camera.

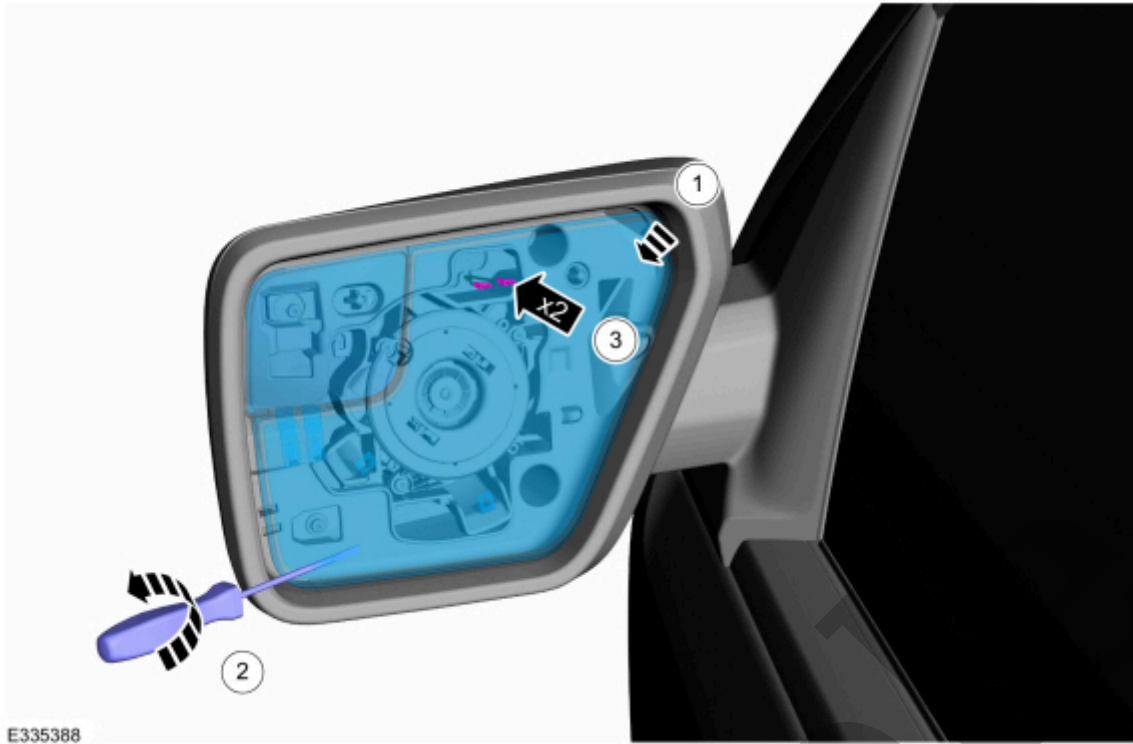
Refer to: [Parking Aid Camera Initialization](#)(413-13B Parking Aid - Vehicles With: Parking Aid Camera, General Procedures).

## Vehicles equipped with digital cameras

3. Align the 360° cameras.

Refer to: [360 Degree View Camera Alignment](#)(413-13B Parking Aid - Vehicles With: Parking Aid Camera, General Procedures).

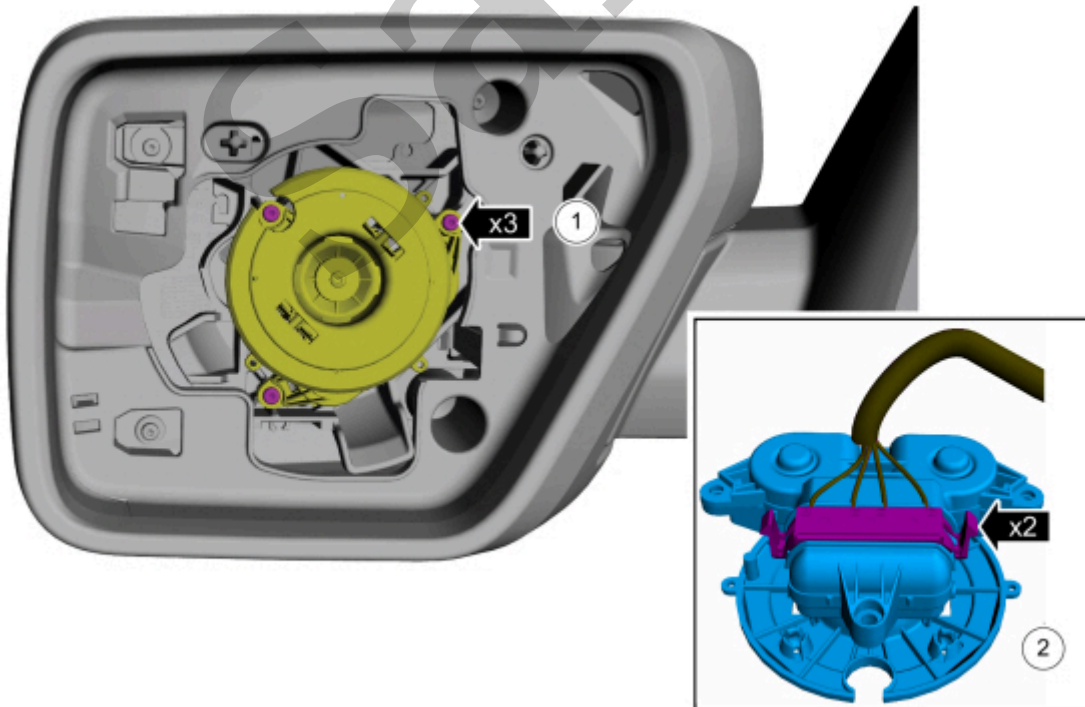
Copyright © Ford Motor Company

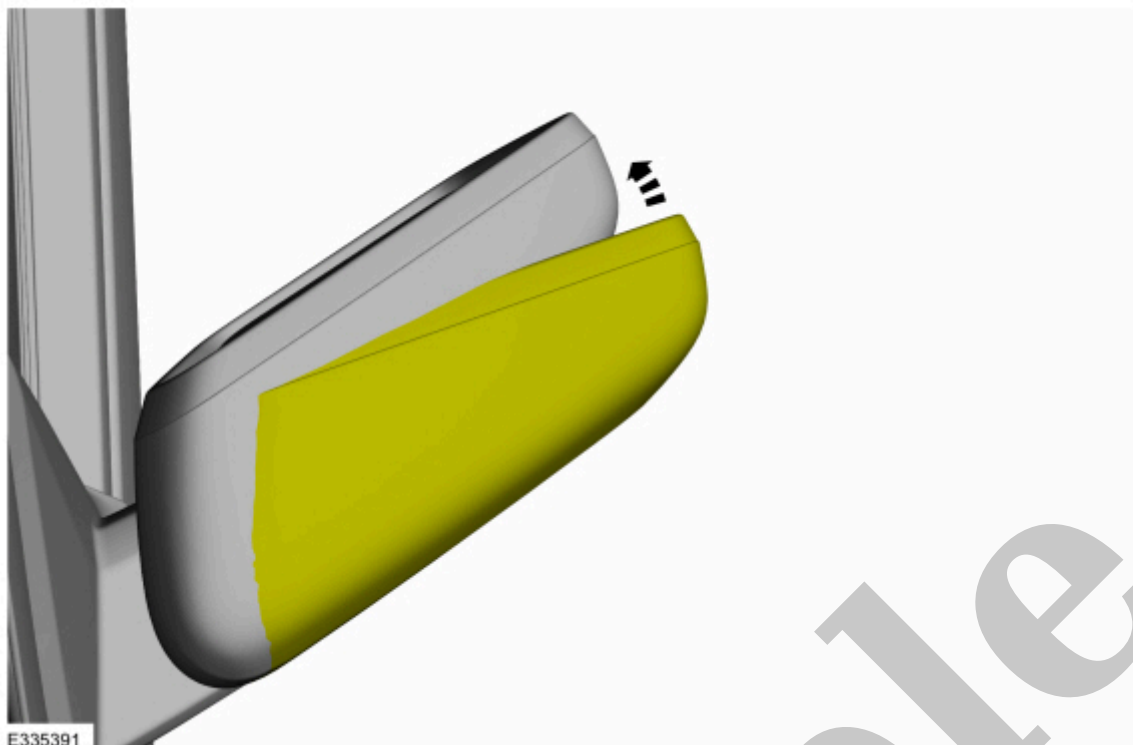


[Click here to learn about symbols, color coding, and icons used in this manual.](#)

2. Remove the exterior mirror motor.

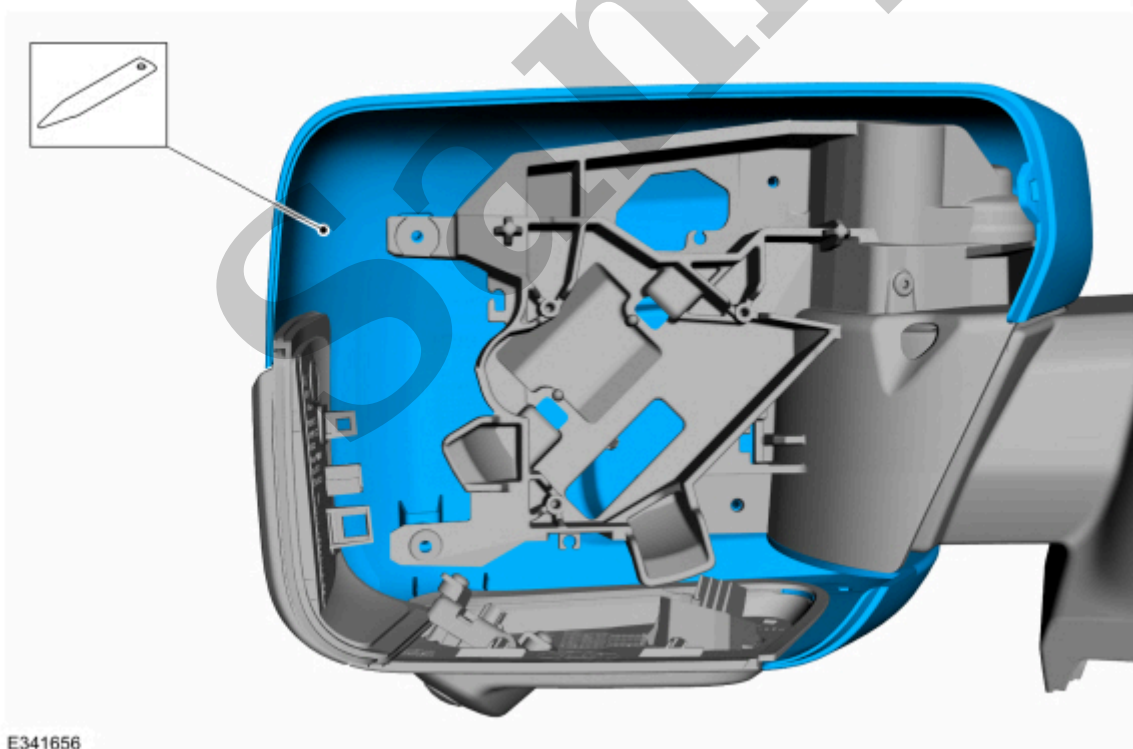
1. Remove the screws and position the exterior mirror motor aside.
2. Disconnect the exterior mirror motor electrical connectors.





[Click here to learn about symbols, color coding, and icons used in this manual.](#)

5. Using the interior trim remover, pry in the opposite directions and remove the exterior mirror cover.



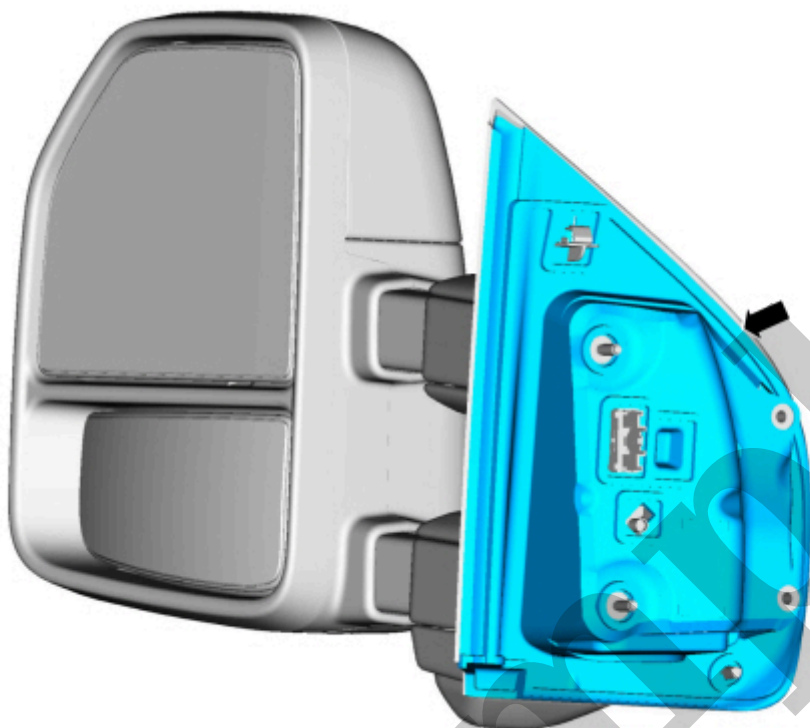
[Click here to learn about symbols, color coding, and icons used in this manual.](#)

6. Disconnect the parking camera electrical connector.

8. Remove the exterior mirror.

Refer to: [Exterior Mirror - Vehicles With: Long Arm Mirrors](#)(501-09 Rear View Mirrors, Removal and Installation).

9. Remove the exterior mirror weather shield.



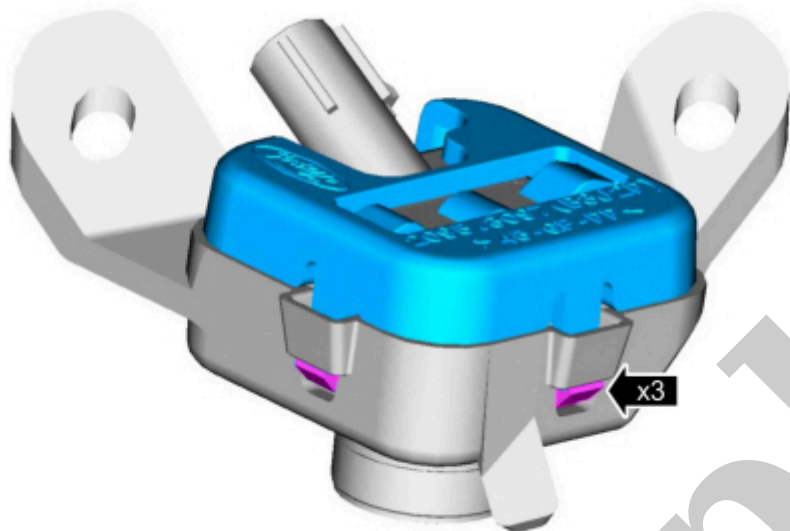
E238056

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

10.
  1. Using a suitable tool, release the locking tabs.
  2. Position the inside edge of the cover.
  3. Remove the side parking aid camera cover.

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

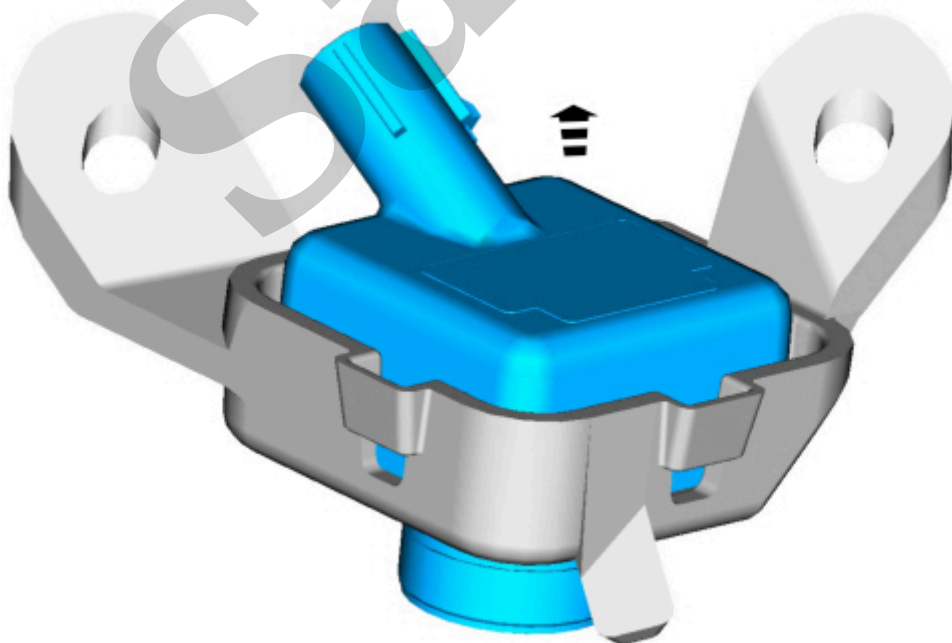
12. Release the locking tabs and remove the upper camera bracket.



E238060

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

13. Remove the side parking aid camera.



E238061