

# 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.

## 2018 FORD Focus 5 Doors OEM Service and Repair Workshop Manual

[Go to manual page](#)

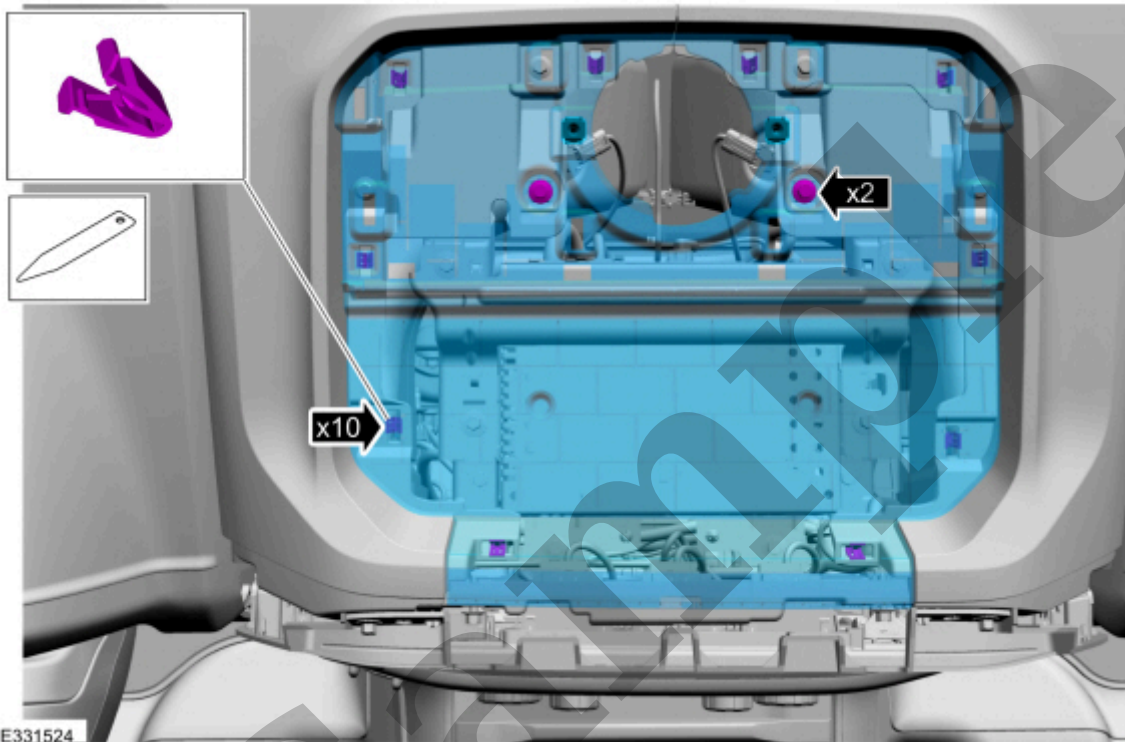
## Vehicles equipped with an instrument panel center speaker

2. Remove the instrument panel center speaker.

Refer to: [Instrument Panel Center Speaker - Vehicles With: 8 Inch Center Display Screen/12 Inch Center Display Screen](#)(415-00 Information and Entertainment System - General Information, Removal and Installation).

3. Remove the screws, release the clips and remove the instrument panel center speaker mounting plate.

Remove the General Equipment: Interior Trim Remover



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

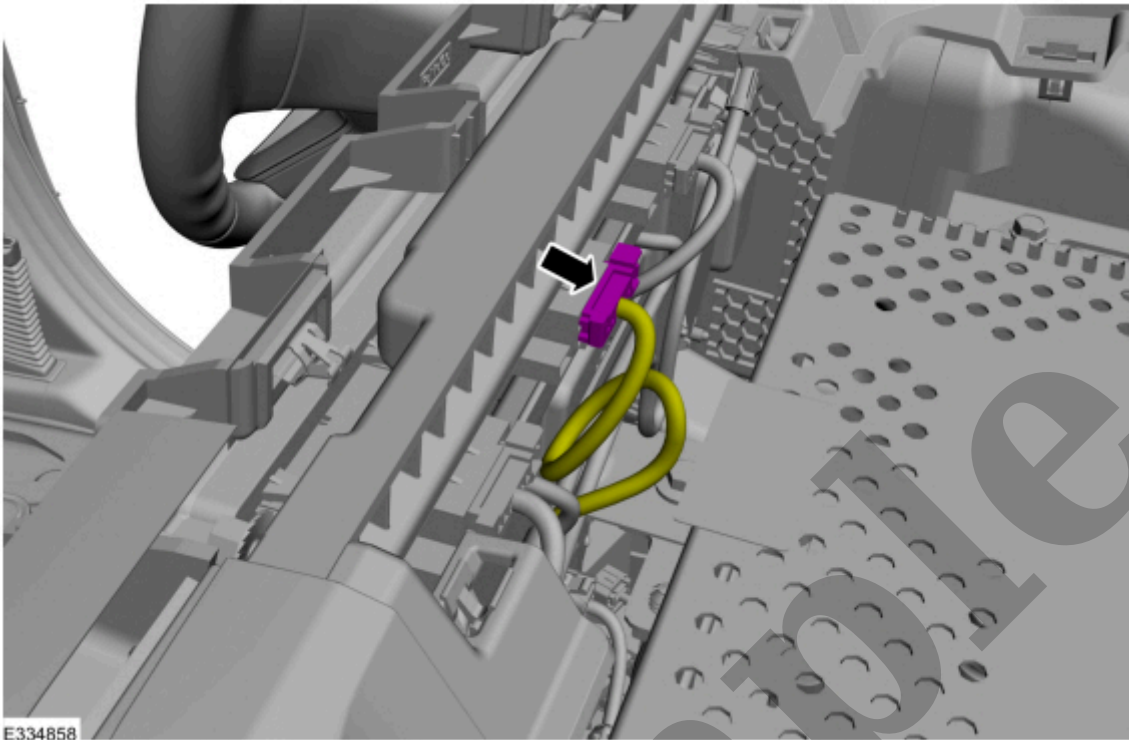
## Vehicles not equipped with an instrument panel center speaker

4. Remove the upper instrument panel tray liner.

Remove the General Equipment: Interior Trim Remover

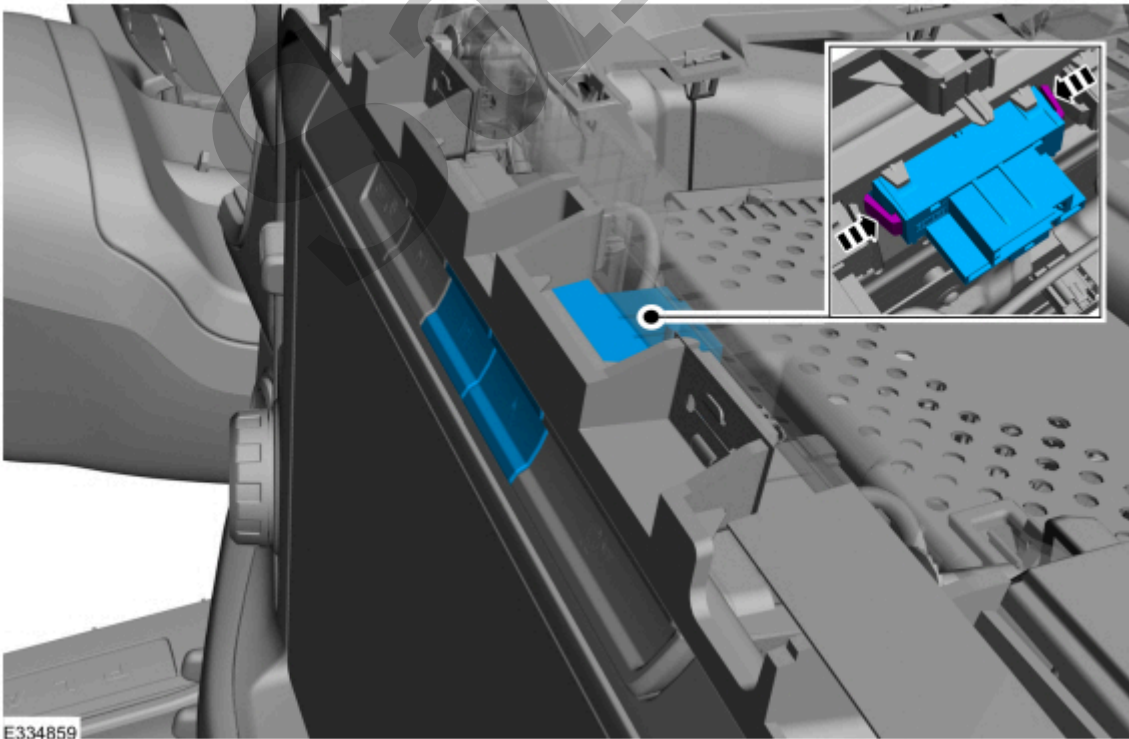
## All vehicles

6. Disconnect the electrical connector.



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

7. Release the tabs and remove the active park assist switch.



## Front Active Park Assist Sensors

<b>413-13C Parking Aid - Vehicles With: Active Park Assist</b>	<b>2022 F-150</b>
<b>Removal and Installation</b>	<b>Procedure revision date: 10/1/2020</b>

### Front Active Park Assist Sensors

#### Removal

##### NOTE

LH (left-hand) side shown, RH (right-hand) side similar.

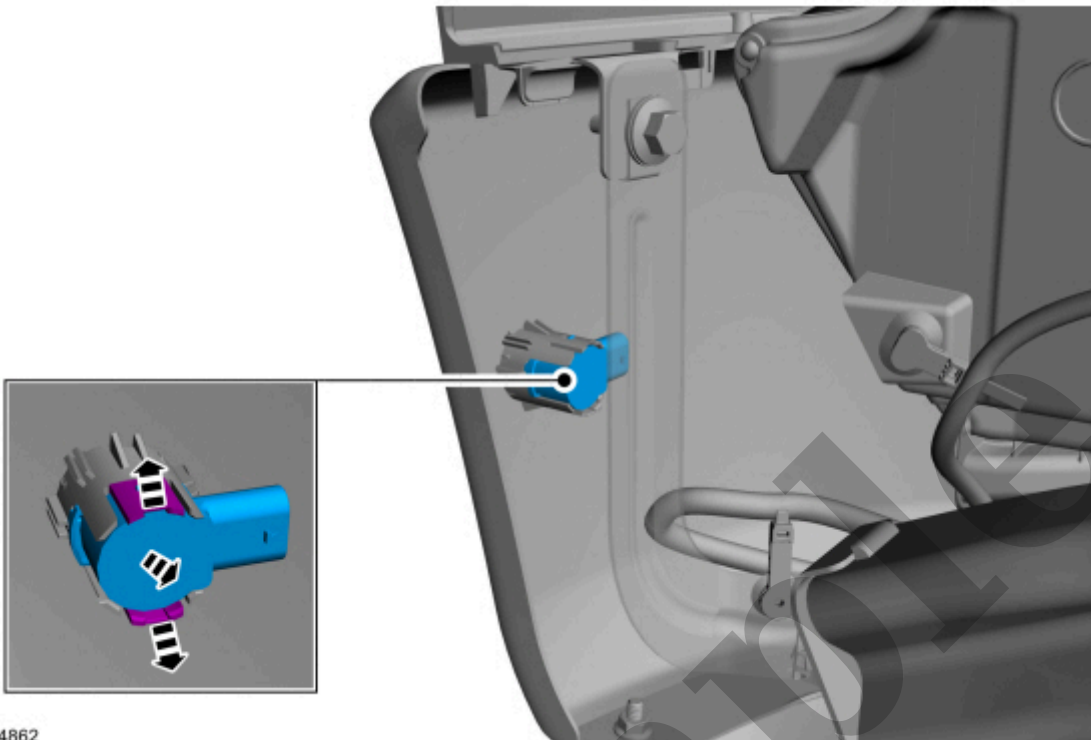
1. Remove the front wheel and tire.

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

2. Remove the screws and position aside the front wheel arch liner

**Torque** : 15 lb.in (1.7 Nm)

- Release the tabs.
- Remove the active park assist sensor.



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

## Installation

### NOTE

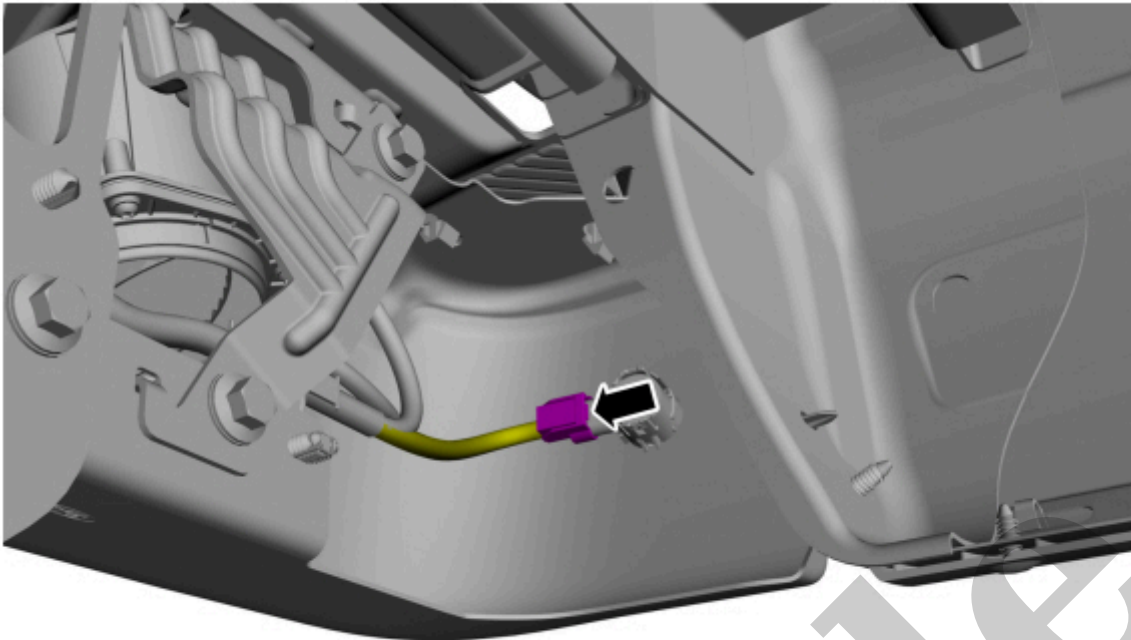
Make sure that the isolator rings are installed correctly while installing the sensors.

1. To install, reverse the removal procedure.
2. Carry out the azimuth system check.

Refer to: [Azimuth System Check](#)(413-13C Parking Aid - Vehicles With: Active Park Assist, General Procedures).

3. If any sensor fails the checks, diagnose the sensor fault.

Refer to: [Parking Aid](#)(413-13C Parking Aid - Vehicles With: Active Park Assist, Diagnosis and Testing).



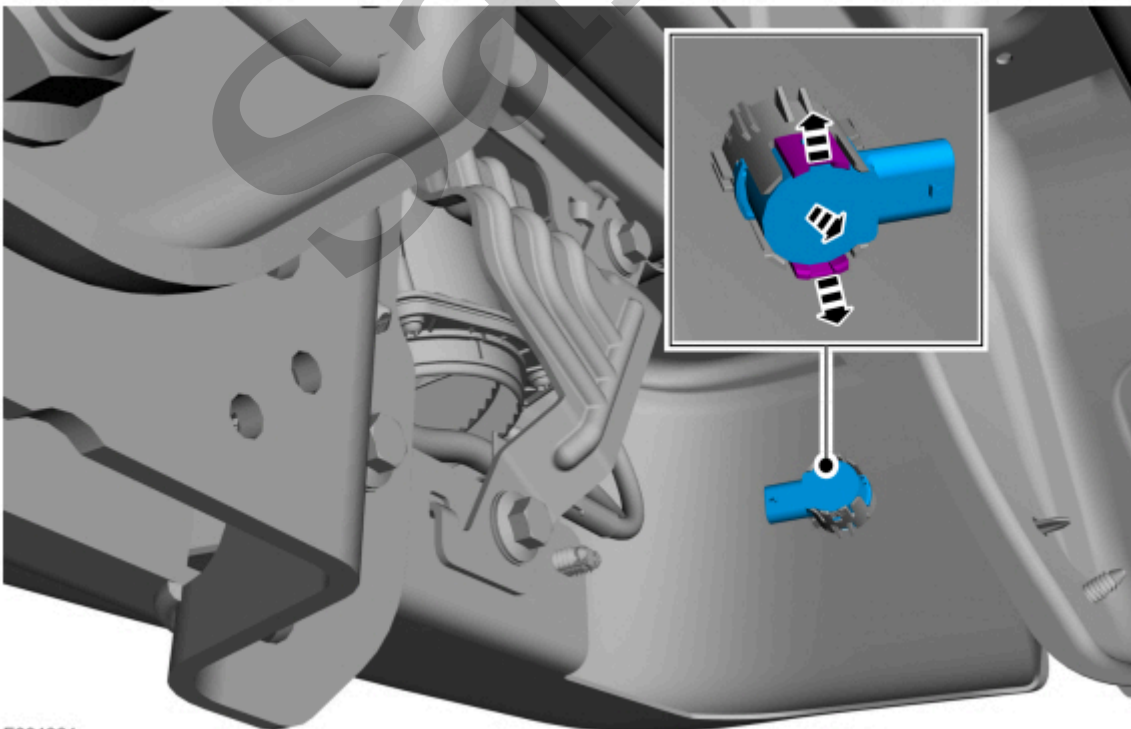
E334863

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

3. Remove the active park assist sensor.

1. Release the tabs.

2. Remove the sensor.



E334864

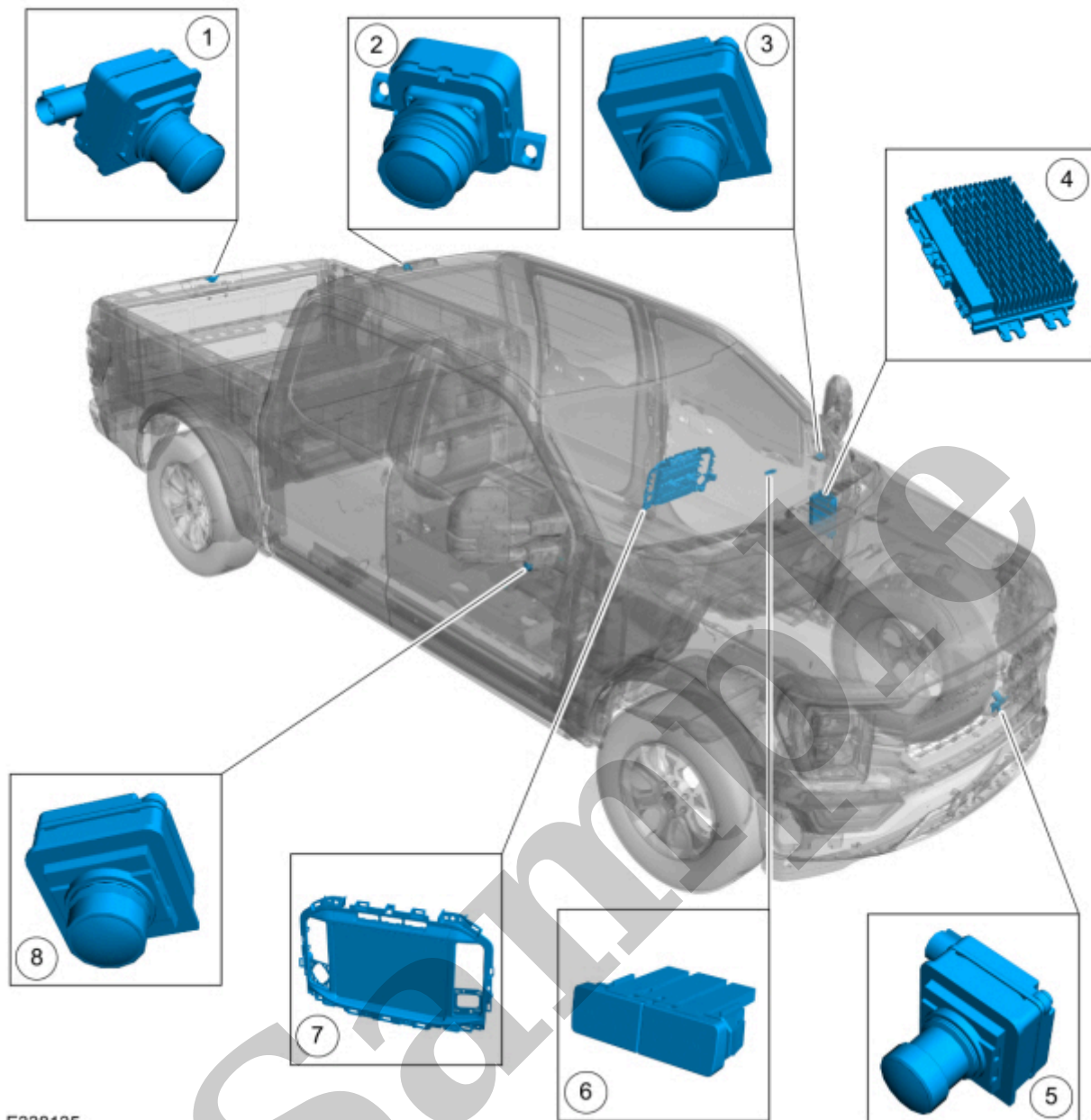
## Specifications

<b>413-13C Parking Aid - Vehicles With: Active Park Assist</b>	<b>2022 F-150</b>
<b>Specifications</b>	<b>Procedure revision date: 10/24/2014</b>

### Specifications

#### General Specifications

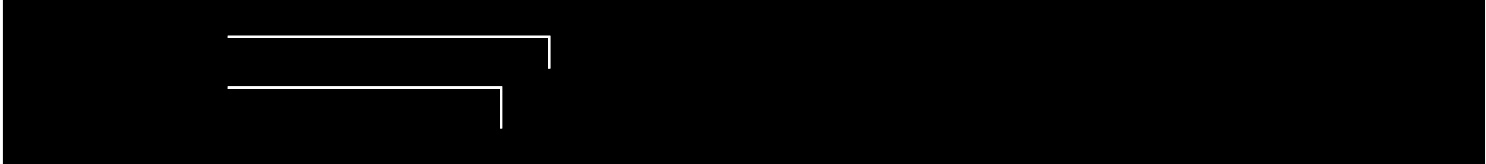
Item	Specification
Active park assist sensor azimuth system check object position 1 (P1) distance from sensor	50 cm (20 in) ± 10 cm (4 in)
Active park assist sensor azimuth system check object position 2 (P2) and position 3 (P3) distance from sensor	391 cm (154 in) ± 20 cm (8 in)



E338135

Item	Description
1	Rear parking aid camera
2	Center high mount stop lamp (CHMSL) camera
3	LH (left-hand) side parking aid camera
4	IPMA (image processing module A)
5	Front parking aid camera





## Parking Aid - Overview

<b>413-13B Parking Aid - Vehicles With: Parking Aid Camera</b>	<b>2022 F-150</b>
<b>Description and Operation</b>	<b>Procedure revision date: 10/2/2020</b>

### Parking Aid - Overview

#### Overview

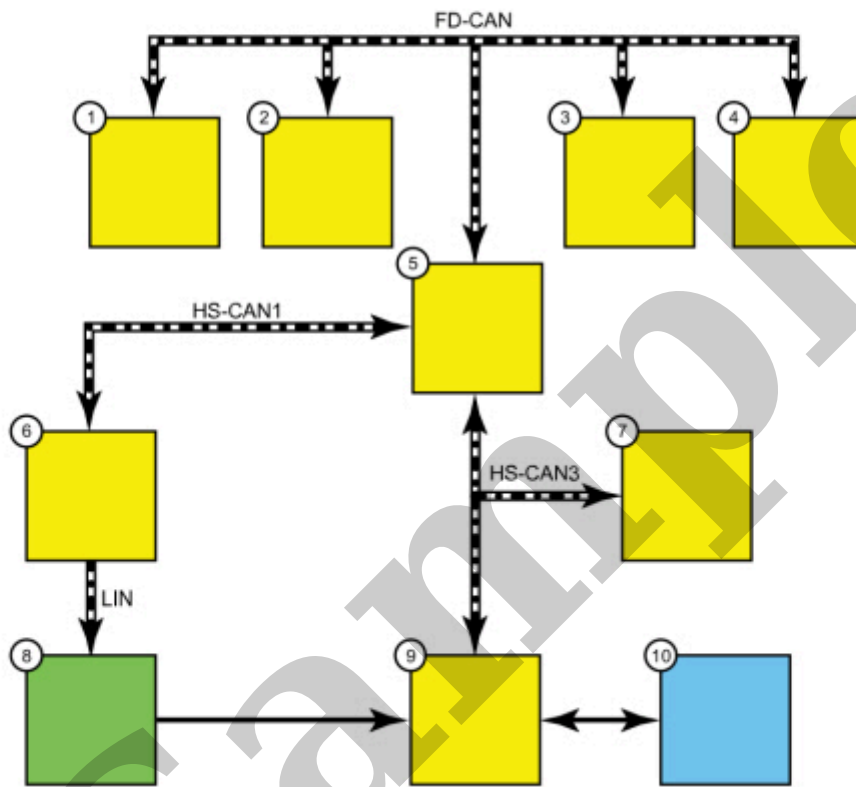
##### Rear Only Parking Aid Camera

The rear parking aid camera system visually aids the driver while reversing or reverse parking the vehicle. The camera system has features that provide fixed and active guideline overlays on the video image to assist the driver in aligning the vehicle and a visual alert function that provides a visual highlight in the zone where an object is detected by the audible parking aid system.

##### 360 Degree View Camera

The 360 degree view camera system provides several different camera views to visually aid the driver while maneuvering the vehicle at low speed. The camera system is enabled by selecting reverse gear or pressing the camera selection switch when any gear except reverse is selected. The camera views are changed using the audio system display on-screen camera selection buttons. Available camera views depend on the transmission gear selection. The camera system provides fixed and active guideline overlays on the rear normal view video image to assist the driver in aligning the vehicle and a visual alert function that provides a visual highlight on the rear normal and 360 degree view images in the zone where an object is detected by the audible parking aid system.

Copyright © Ford Motor Company



E344117

Item	Description
1	ABS (anti-lock brake system) module
2	PSCM (power steering control module)
3	PCM (powertrain control module)
4	TCM (transmission control module)
5	GWM (gateway module A)