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2014 FORD Focus 5 Doors OEM Service and Repair Workshop Manual

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I6 CHECK THE PCM (POWERTRAIN CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, perform the PCM (powertrain control module) self-test.

Are any Diagnostic Trouble Codes (DTCs) present?

Yes	Refer to the appropriate section in Group 303for the procedure.
No	GO to I7

I7 CHECK THE RCM (RESTRAINTS CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, perform the RCM (restraints control module) self-test.

Are any Diagnostic Trouble Codes (DTCs) present?

Yes	REFER to: Airbag Supplemental Restraint System (SRS)(501-20B Supplemental Restraint System, Diagnosis and Testing).
No	GO to I8

I8 CHECK THE TRM (TRAILER MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, perform the TRM (trailer module) self-test.

Are any Diagnostic Trouble Codes (DTCs) present?

Yes	REFER to: Trailer Lamps(417-01 Exterior Lighting, Diagnosis and Testing).
No	GO to I9

I9 CHECK THE IPC (INSTRUMENT PANEL CLUSTER) DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, perform the IPC (instrument panel cluster) self-test.

Are any Diagnostic Trouble Codes (DTCs) present?

	- General Information, Diagnosis and Testing).

No	GO to I13

I13 CHECK FOR CORRECT IPMA (IMAGE PROCESSING MODULE A) OPERATION

- Ignition OFF.
- Disconnect and inspect all IPMA (image processing module A) connectors.
- Repair:
  - corrosion (install new connector or terminals – clean module pins)
  - damaged or bent pins – install new terminals/pins
  - pushed-out pins – install new pins as necessary
- Reconnect the IPMA (image processing module A) connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new IPMA (image processing module A) . REFER to: Image Processing Module A (IPMA) (419-07 Lane Keeping System, Removal and Installation).

No	The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector. ADDRESS the root cause of any connector or pin issues.

PINPOINT TEST J : THE CENTERSTACK INFOTAINMENT DISPLAY SHOWS THE ACTIVE PARK ASSIST NOT AVAILABLE MESSAGE

Refer to Wiring Diagrams Cell 14for schematic and connector information.

Normal Operation and Fault Conditions REFER to: Parking Aid - System Operation and Component Description

(413-13C Parking Aid - Vehicles With: Active Park Assist, Description and Operation).

garage or car wash. As a result, the air temperature displayed in the vehicle may not be close enough to the actual ambient air temperature. The active park assist system relies on accurately sensing the ambient air temperature to compensate the sensors. No action is required.

- The tires are not inflated to the correct pressure, the tires are not the same size or the tires are not the OE (original equipment) size. INSPECT the tire condition, pressure and size. A considerably worn tire positions the vehicle far from the curb. A larger size tire positions the vehicle closer to the curb. REPAIR or REPLACE tire(s) as necessary.
- The driver allowed the vehicle to roll in the opposite direction of the transmission, such as rolling forward when the reverse gear is selected. INFORM the customer not to allow the vehicle to roll in the opposite direction when operating the active park assist system. REFER to the Owner's Literature.
- An irregular curb is present along the parking space. The system may not be able to align the vehicle to curbs that are damaged, very shallow or covered by debris. If this is the circumstance, the system aligns the vehicle relative to objects bordering the parking space.
- A vehicle or object bordering the parking space is not aligned with the parking space. The system aligns the vehicle to the objects bordering the parking space when a curb is not detected.
- One of the parked vehicles has an elevated attachment, such as a salt spreader or moving truck bed that the sensors cannot detect. Elevated attachments may not be detected by the system.
- The parking space length or parked objects position has changed after the vehicle has passed the parking space. The system scans the parking space as the vehicle is driven by the available spaces. Therefore, the system cannot detect if the parked vehicle or objects position has changed after the parking space has been scanned. No action needs to take place at this time.
- The transmission not shifting correctly. REFER to the appropriate section in 307

Diagnostic steps are not provided for this symptom or DTC. REFER to: Diagnostic Methods (100-00 General Information, Description and Operation).

PINPOINT TEST L : THE ACTIVE PARK ASSIST SYSTEM DOES NOT OFFER AVAILABLE PARKING SPACES

Refer to Wiring Diagrams Cell 14for schematic and connector information.

Normal Operation and Fault Conditions REFER to: Parking Aid - System Operation and Component Description
(413-13C Parking Aid - Vehicles With: Active Park Assist, Description and Operation).

Possible Sources

- The vehicle is being driven too close or too far from the adjacent vehicle and/or objects. The vehicle must be driven greater than 40 cm (16 in) and less than 152 cm (60 in) from the adjacent vehicle.
- The parking space available is too small. For parallel parking, the active park assist system only allows available parking spaces that are larger than 1.2 times the length of the vehicle. The system is operating correctly at this time. For perpendicular parking, the active park assist system only allows available parking spaces that are larger than vehicle width + 90 cm (3 ft) wide. The system is operating correctly at this time.

PINPOINT TEST N : THE ACTIVE PARK ASSIST SYSTEM DOES NOT OFFER THE PARALLEL PARK OUT ASSIST FEATURE

Refer to Wiring Diagrams Cell 14for schematic and connector information.

Normal Operation and Fault Conditions REFER to: Parking Aid - System Operation and Component Description (413-13C Parking Aid - Vehicles With: Active Park Assist, Description and Operation).

Possible Sources

- Active park assist system operation

N1 VERIFY THE CONCERN

- Verify the concern

Does the active park assist system offer the parallel park out assist feature?

Yes	The system is working normally at this time.
No	The vehicle has been driven farther than 2 m (7 ft) after ignition on, or after a parallel park. INFORM customer that the parallel park out assist feature is only an available option immediately after a successful automated parallel park or immediately after ignition on. Driving farther than 2 m (7 ft) after either of these events results in the parallel park out assist not being an available option for the driver to select.

Click here to learn about symbols, color coding, and icons used in this manual.

2. Set the parking brake on.
3. For automatic transmission place the selector lever in DRIVE (D). For manual transmission place the gearshift lever in FIRST GEAR.
4. Place the test objects in position shown in the diagram. Refer to specifications in this section.
5. Monitor the suspect active park assist sensor Parameter Identifications (PIDs) to verify the module detects the objects when placed within the specified locations and record the distances.
6. Confirm the recorded distances are within the specification ranges.
7. If the active park assist system does not detect the objects, refer to diagnosis and testing in this section.

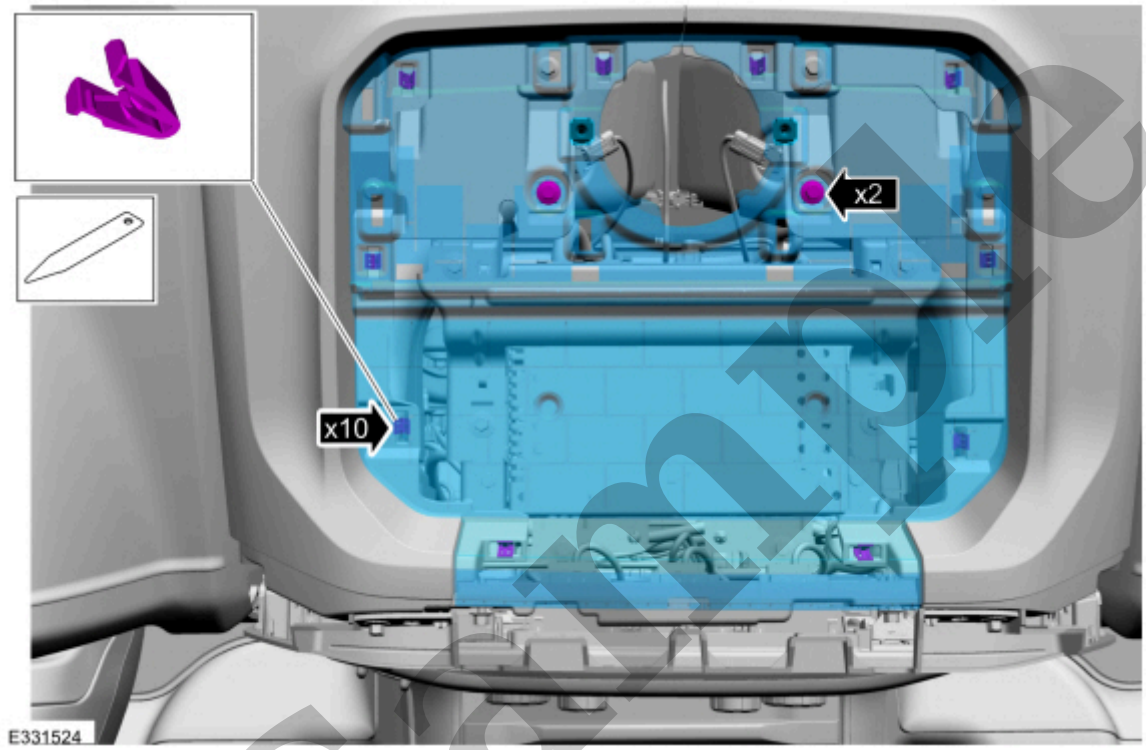
Vehicles equipped with an instrument panel center speaker

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.

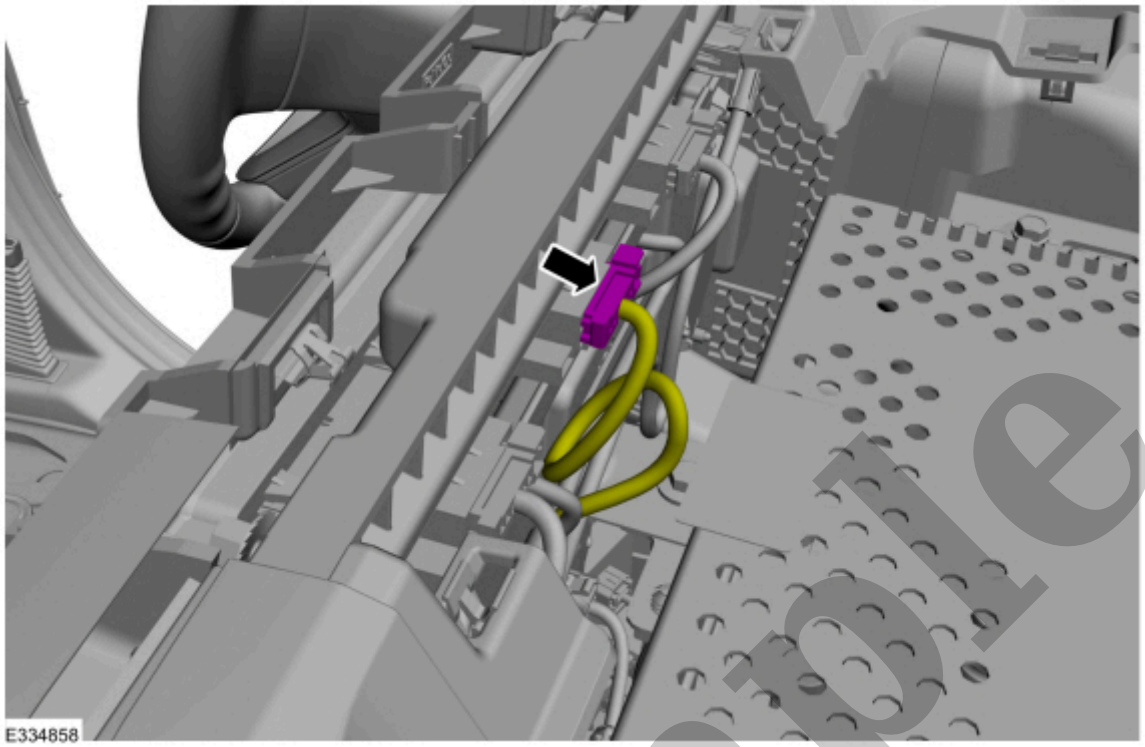
Vehicles not equipped with an instrument panel center speaker

4. Remove the upper instrument panel tray liner.

   Remove the General Equipment: Interior Trim Remover

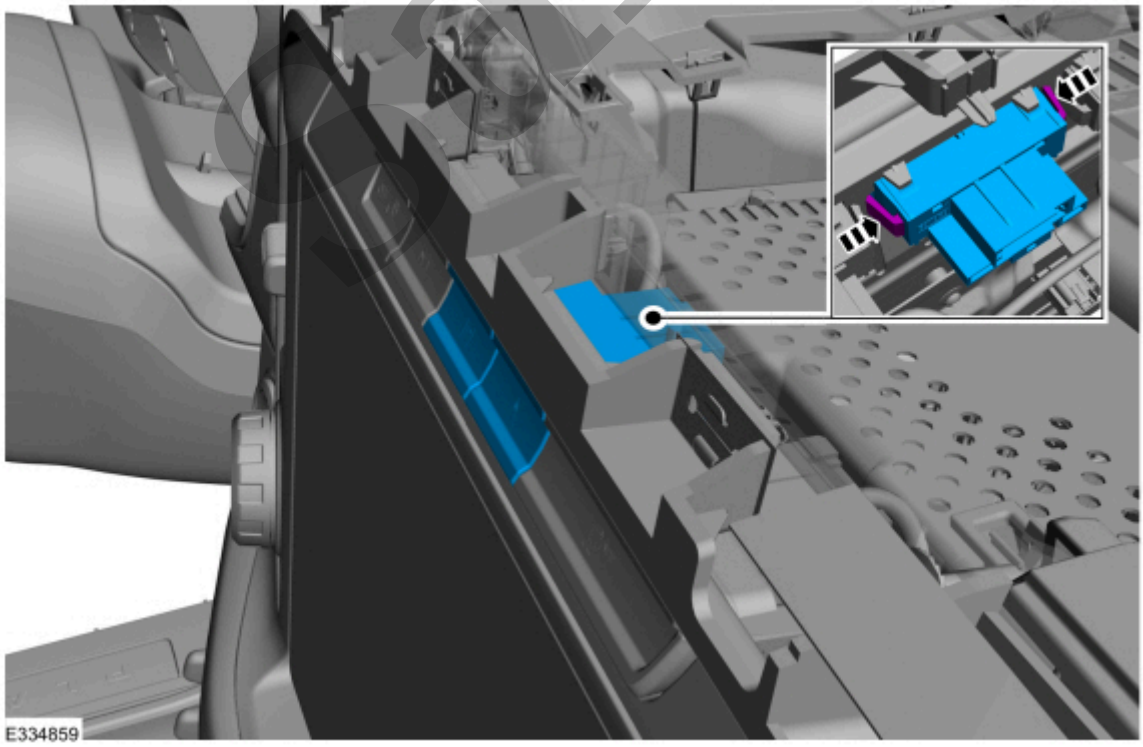
All vehicles

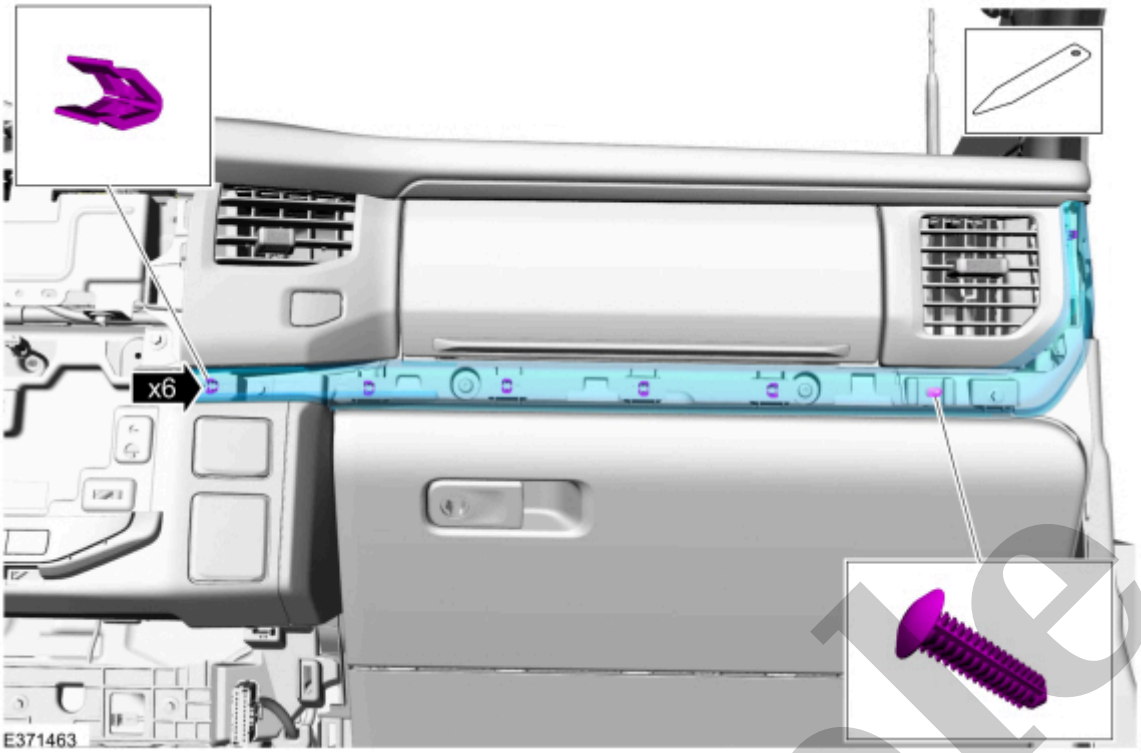
6. Disconnect the electrical connector.



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.





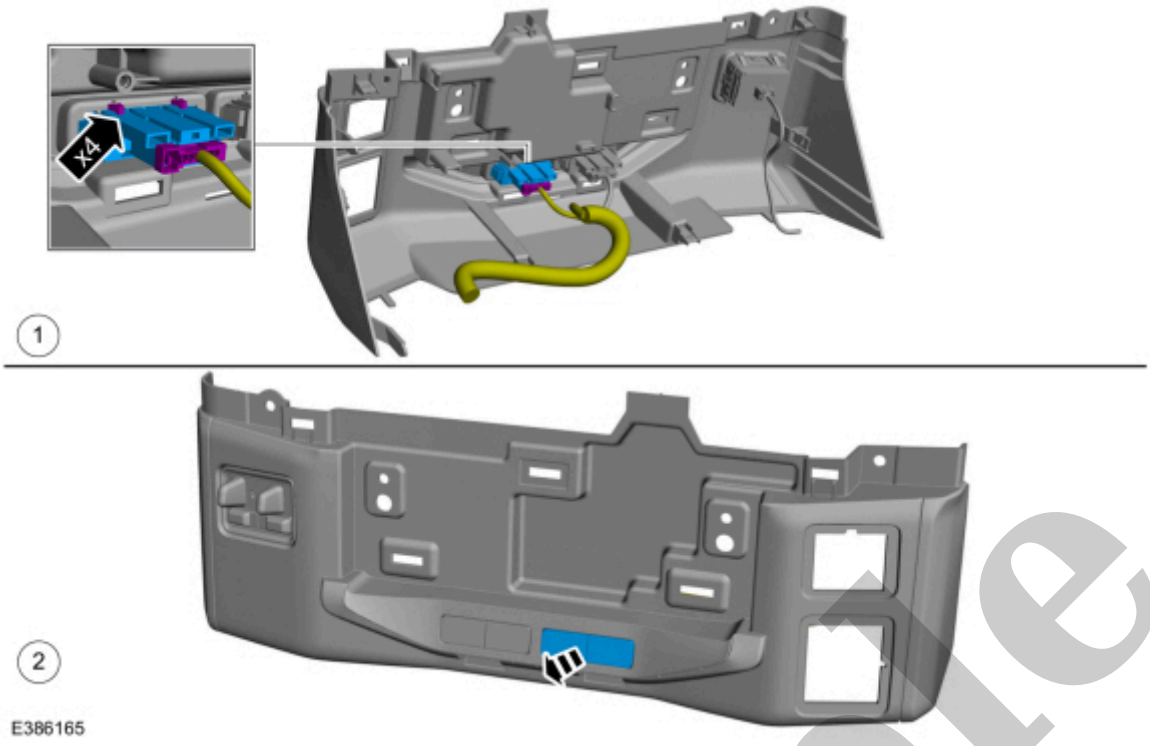
Click here to learn about symbols, color coding, and icons used in this manual.

11. Remove the floor console.

    Refer to: Floor Console - Vehicles With: 15.5 Inch Center Display Screen(501-12 Instrument Panel and Console, Removal and Installation).

12. Remove the bolts, release the tabs and remove the center stack bezel.

    Torque : 22 lb.in (2.5 Nm)



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Installation

1. To install, reverse the removal procedure.