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2016 FORD Mondeo Wagon OEM Service and Repair Workshop Manual

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Supplemental Restraint System (SRS) Repowering

501-20B Supplemental Restraint System	2022 F-150
General Procedures	Procedure revision date: 04/25/2019

Supplemental Restraint System (SRS) Repowering

Repower

WARNING

Incorrect repair techniques or actions can cause an accidental Supplemental Restraint System (SRS) deployment. Never compromise or depart from these instructions. Failure to precisely follow all instructions could result in serious personal injury from an accidental deployment.

NOTE

The SRS (supplemental restraint system) must be fully operational and free of faults before releasing the vehicle to the customer.

1. WARNING

Before beginning any service procedure in this manual, refer to health and safety warnings in section 100-00 General Information. Failure to follow this instruction may result in serious personal injury.

Refer to: [Health and Safety Precautions](#)(100-00 General Information, Description and Operation).

No SRS Fault Present At Beginning of Repair

2. Prove out the SRS (supplemental restraint system) : Verify all airbags are installed and connected and the ignition is OFF. Wait 10 seconds then turn the ignition ON and monitor the airbag warning indicator. The

- If the airbag warning indicator is inoperative and a SRS (supplemental restraint system) fault exists, a chime sounds in a pattern of 5 sets of 5 beeps or a message displays in the message center. If this occurs, diagnose and repair the airbag warning indicator and any SRS (supplemental restraint system) faults before proceeding.
- If after the ignition has been turned ON for 30 seconds the airbag warning indicator remains unlit with no chime or SRS (supplemental restraint system) message displayed in the message center, no SRS (supplemental restraint system) fault is present.

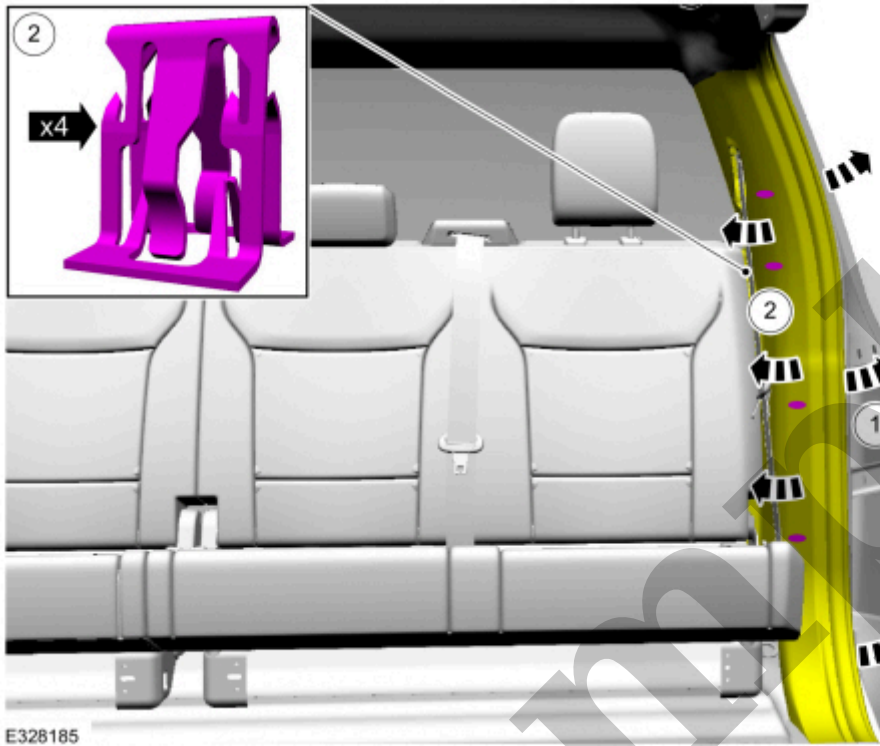
10. Using a scan tool, clear all Continuous Memory Diagnostic Trouble Codes (CMDTCs) from all modules.

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Sample

Refer to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).

3.
 1. Position the weather strip away from the B-pillar trim panel.
 2. Release the clips and position the B-pillar trim panel away enough to access the B-pillar side impact sensor.



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

4. Remove the B-pillar side impact sensor.
 1. Disconnect the electrical connector.
 2. Remove the bolt.

Torque : 119 lb.in (13.5 Nm)
 3. Remove the side impact sensor.



C-Pillar Side Impact Sensor - SuperCrew

<i>501-20B Supplemental Restraint System</i>	<i>2022 F-150</i>
<i>Removal and Installation</i>	<i>Procedure revision date: 10/2/2020</i>

C-Pillar Side Impact Sensor - SuperCrew

Removal

WARNING

The following procedure prescribes critical repair steps required for correct restraint system operation during a crash. Follow all notes and steps carefully. Failure to follow step instructions may result in incorrect operation of the restraint system and increases the risk of serious personal injury or death in a crash.

NOTE

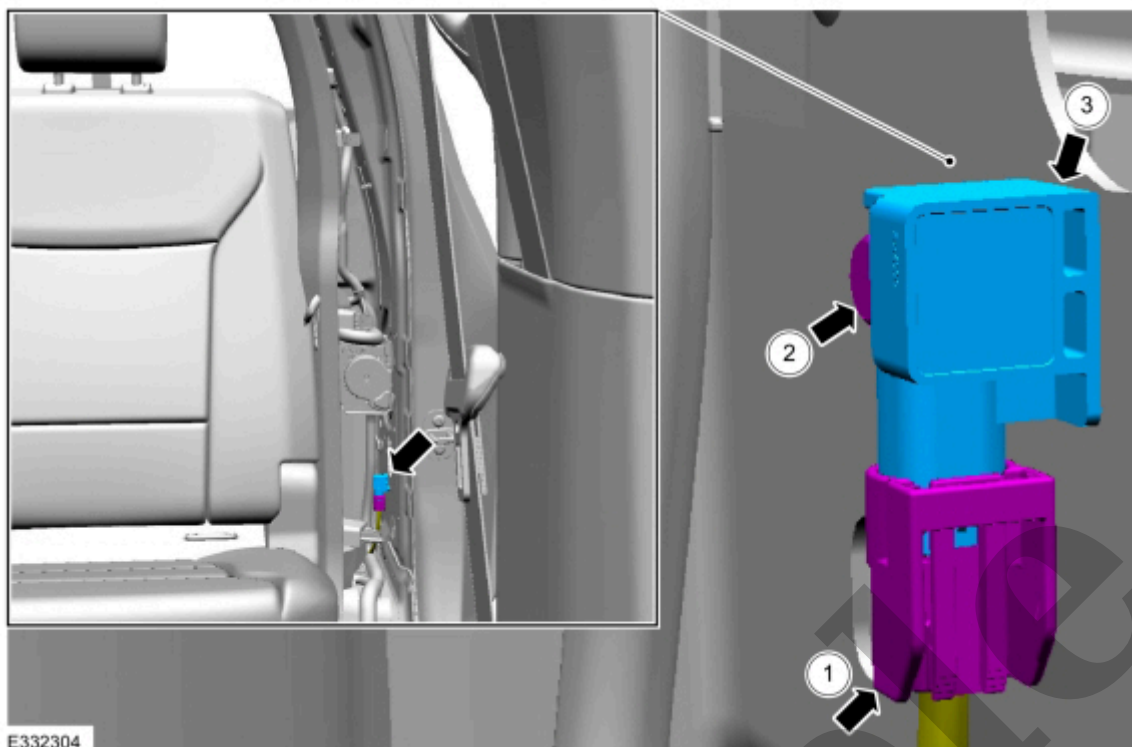
Removal steps in this procedure may contain installation details.

1. WARNING

Before beginning any service procedure in this manual, refer to health and safety warnings in section 100-00 General Information. Failure to follow this instruction may result in serious personal injury.

Refer to: [Pyrotechnic Device Health and Safety Precautions](#)(100-00 General Information, Description and Operation).

2. Depower the SRS (supplemental restraint system) .



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

Installation

1. NOTE

The impact sensor mating surfaces must be smooth and allow for a flush attachment to each other.

To install, reverse the removal procedure.

2. Repower the SRS (supplemental restraint system) .

Refer to: [Supplemental Restraint System \(SRS\) Repowering](#)(501-20B Supplemental Restraint System, General Procedures).

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Before beginning any service procedure in this manual, refer to health and safety warnings in section 100-00 General Information. Failure to follow this instruction may result in serious personal injury.

Refer to: [Pyrotechnic Device Health and Safety Precautions](#)(100-00 General Information, Description and Operation).

2. **NOTE**

This step is only necessary when installing a new component.

NOTE

The PMI (programmable module installation) process must begin with the current clockspring installed. If the current clockspring does not respond to the diagnostic scan tool, the tool may prompt for As-Built Data as part of the repair.

Using a diagnostic scan tool, begin the PMI (programmable module installation) process for the SASM (steering angle sensor module) following the on-screen instructions.

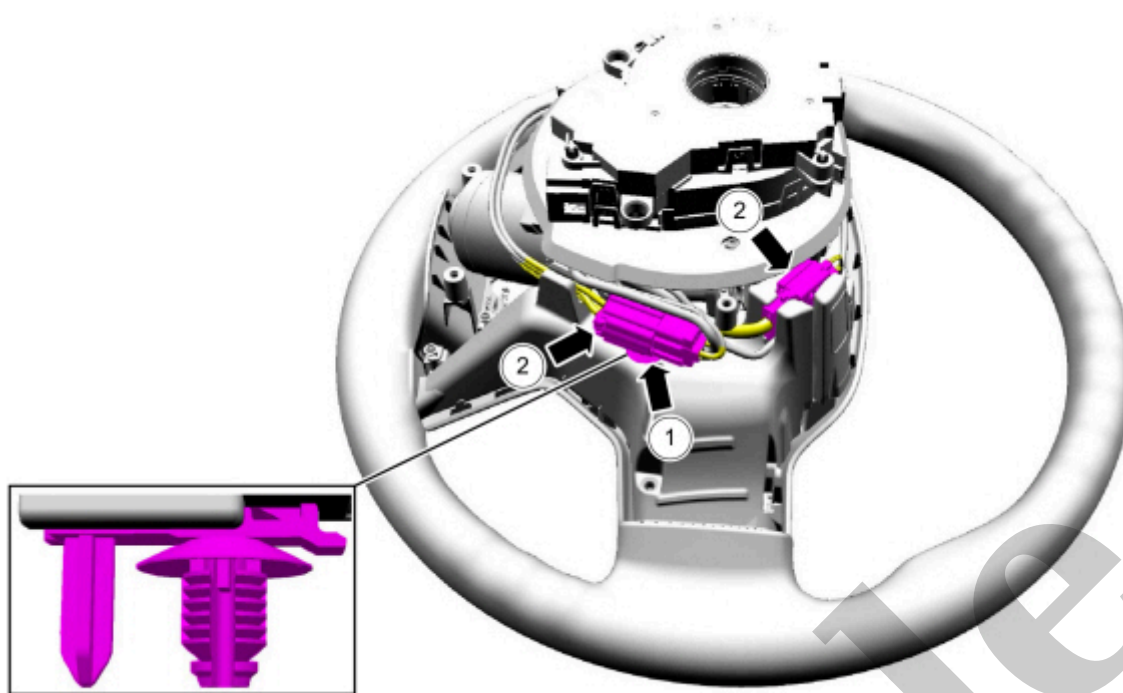
3. **NOTE**

Follow the unique instructions or graphic for this step in installation.

Remove the steering.

Refer to: [Steering Wheel - Vehicles With: Adaptive Steering](#)(211-04 Steering Column, Removal and Installation).

4. Remove the screws and the steering wheel back cover.

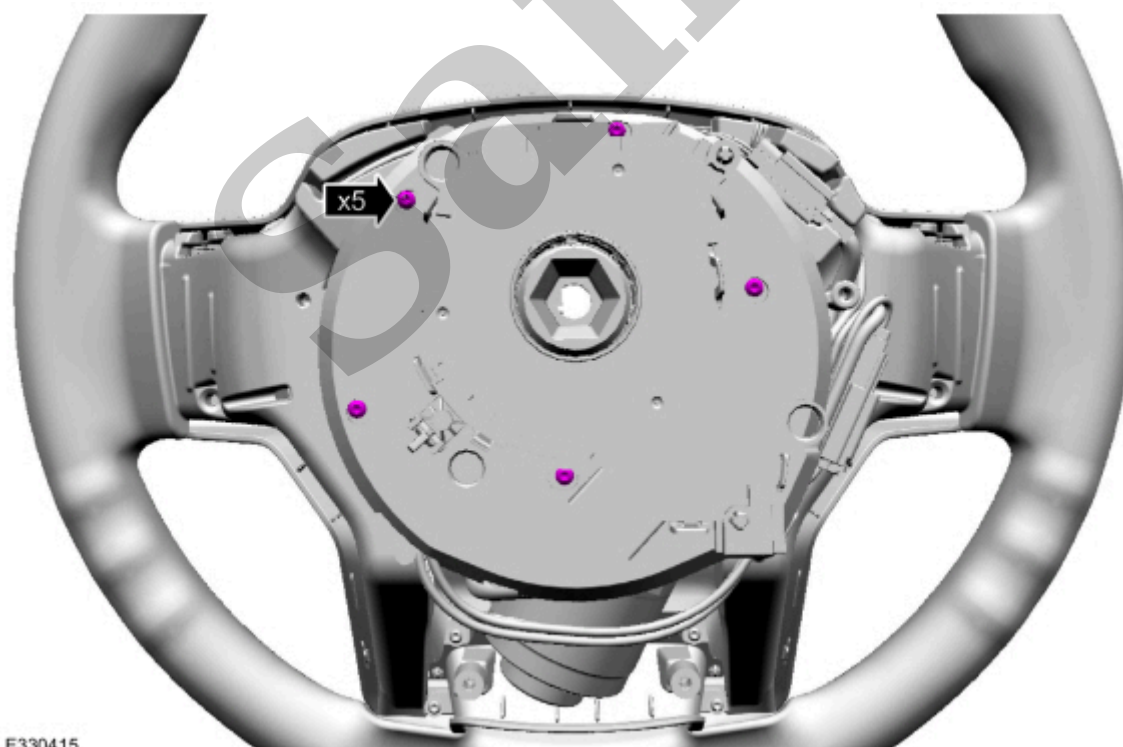


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[Click here to learn about symbols, color coding, and icons used in this manual.](#)

6. Remove the clockspring screws.

Torque : 4 lb.in (0.4 Nm)



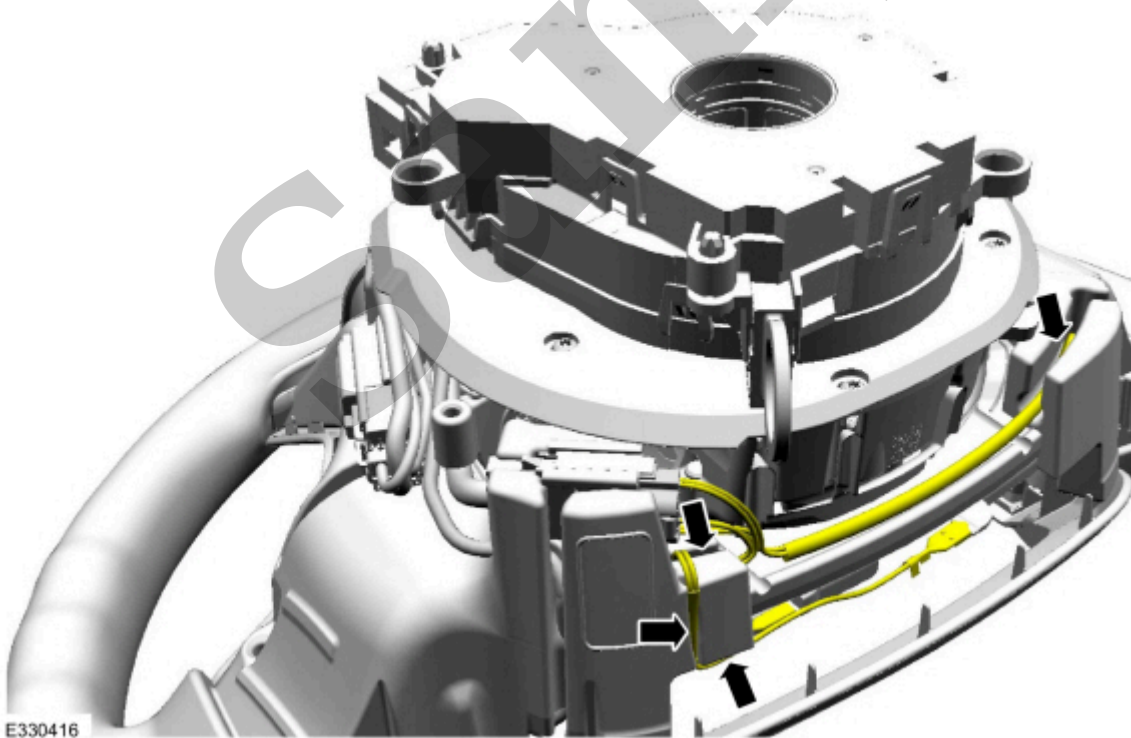
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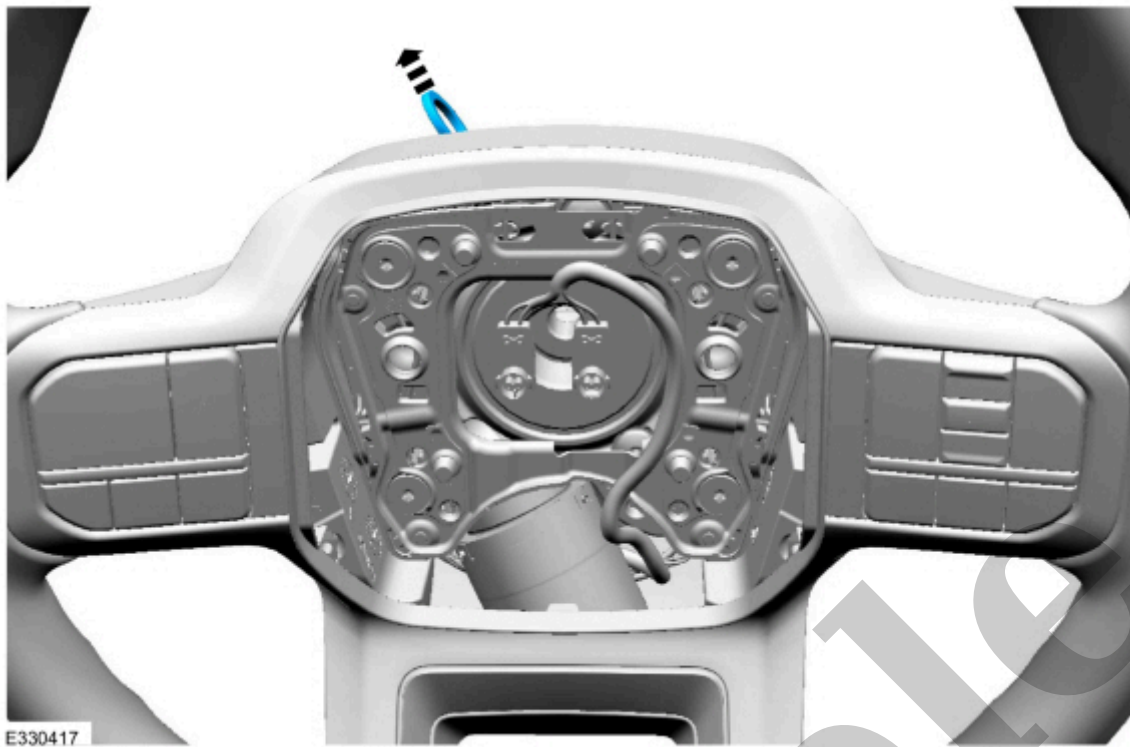
[Click here to learn about symbols, color coding, and icons used in this manual.](#)

3. Route the clockspring wiring in the steering wheel wiring guide.



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

4. Route the clockspring wiring in the steering wheel wiring guide.



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

6. **NOTE**

This step is only necessary when installing a new component.

Using a diagnostic scan tool, complete the PMI (programmable module installation) process for the SASM (steering angle sensor module) following the on-screen instructions.

7. Using a diagnostic scan tool, complete the following service routines in the order shown, following the on-screen instructions.

1. Steering Angle Sensor Calibration.
2. SECM (steering effort control module) Motor Calibration.

8. Check and if necessary, adjust the front toe.

Refer to: [Front Toe Adjustment](#)(204-00 Suspension System - General Information, General Procedures).