

# Your Ultimate Source for OEM Repair Manuals

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## 2005 FORD Focus 4 Doors OEM Service and Repair Workshop Manual

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## Upper Arm - Raptor

|                                           |                                           |
|-------------------------------------------|-------------------------------------------|
| <b>204-01B Front Suspension - LHD 4WD</b> | <b>2022 F-150</b>                         |
| <b>Removal and Installation</b>           | <b>Procedure revision date: 08/5/2021</b> |

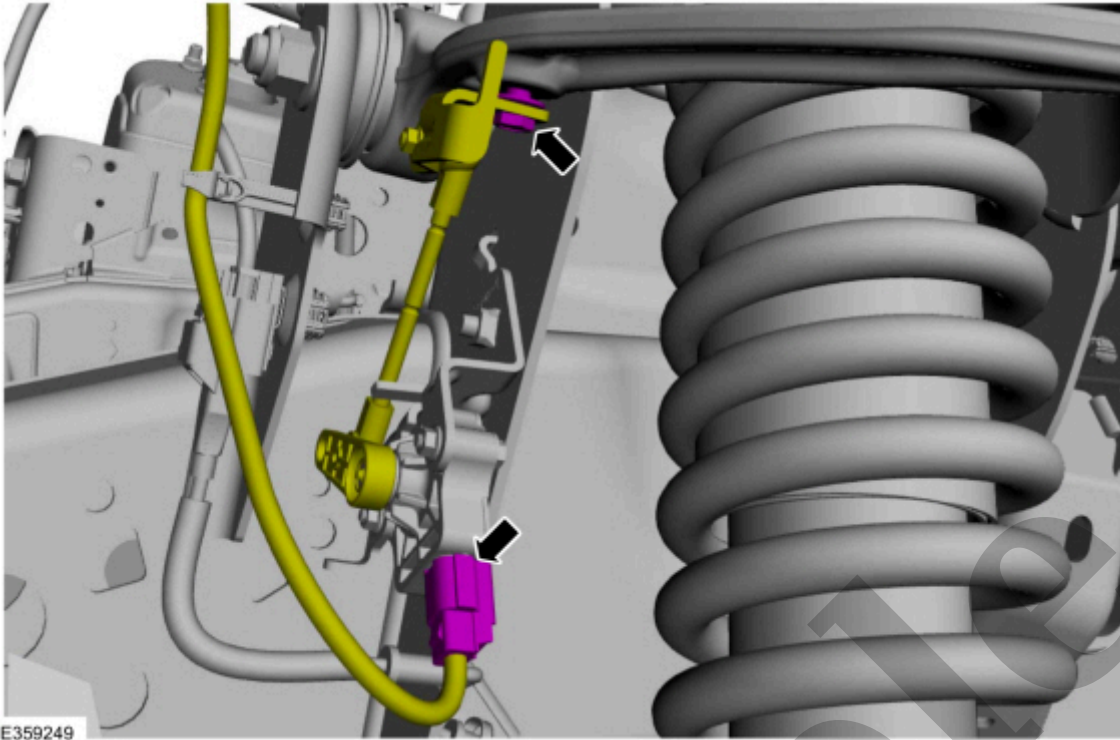
### Upper Arm - Raptor

#### Removal

##### NOTICE

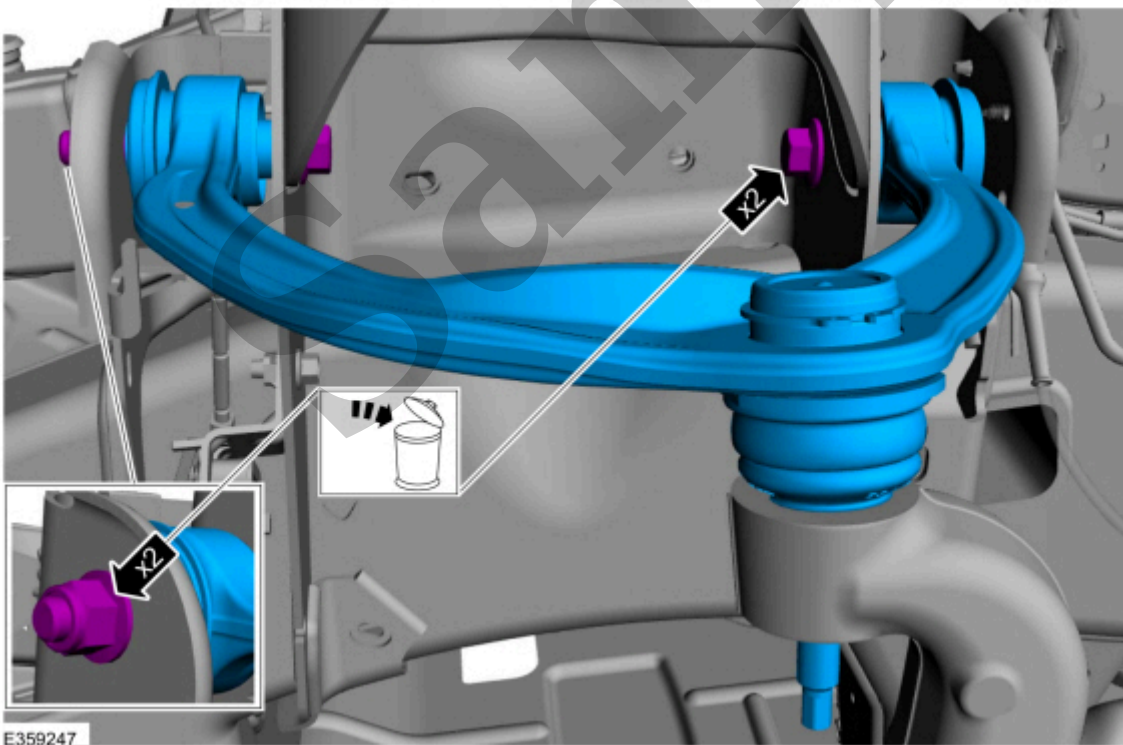
Suspension fasteners are critical parts that affect the performance of vital components and systems. Failure of these fasteners may result in major service expense. Use the same or equivalent parts if replacement is necessary. Do not use a replacement part of lesser quality or substitute design. Tighten fasteners as specified.

1. Measure the distance from the center of the hub to the lip of the fender with the vehicle in a level, static ground position (curb height).



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

4. Remove and discard the upper arm bolts and nuts and remove the upper arm.



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

## Installation

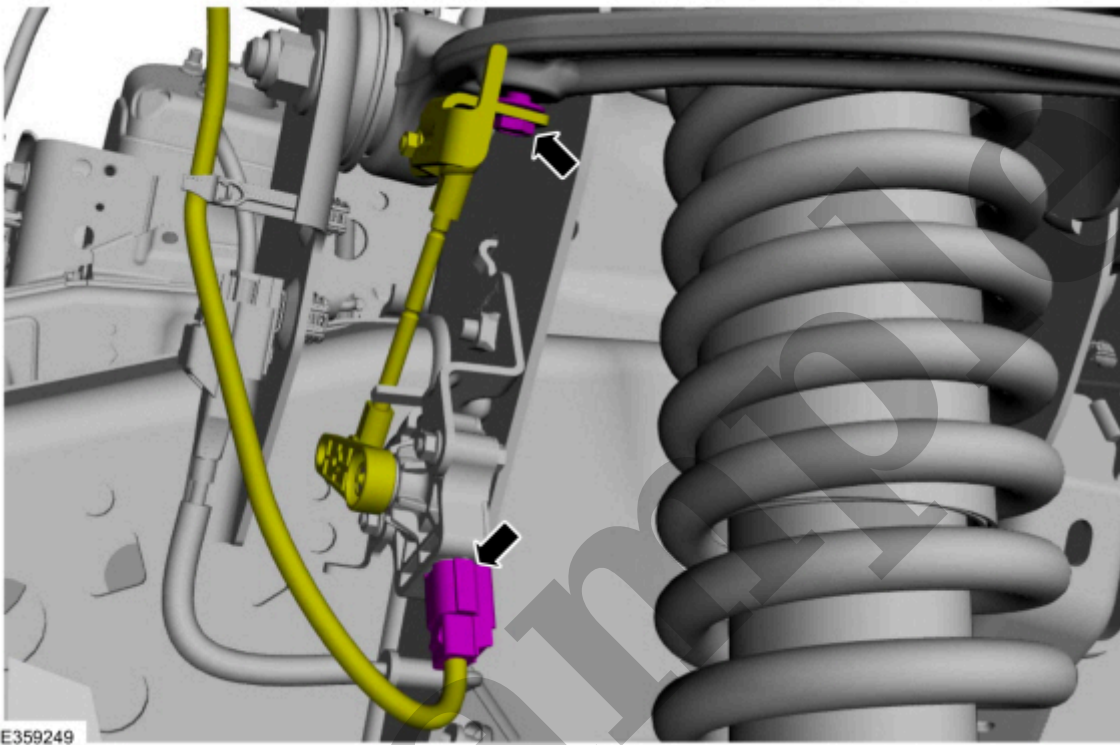
## NOTE

Make sure that the components are installed to the position noted before removal.

- Attach the height sensor arm to the upper control arm and install the bolt.

**Torque** : 177 lb.in (20 Nm)

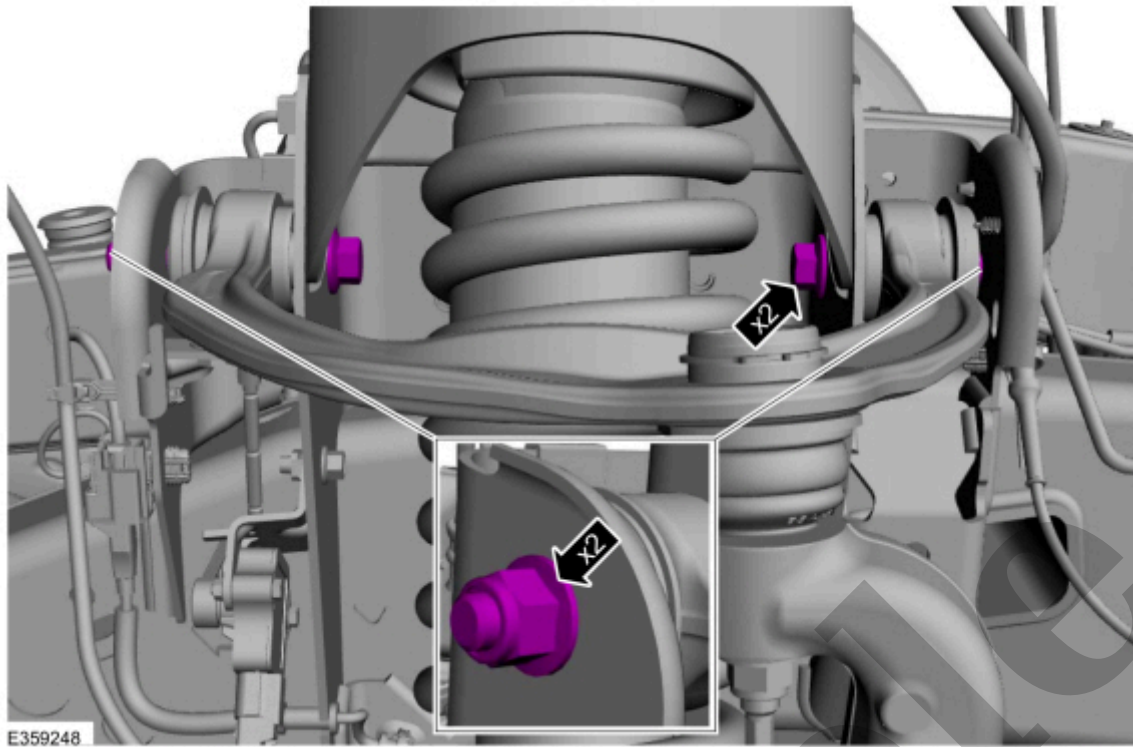
- Connect the height sensor electrical connector.



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

4. Use a suitable jack to raise the suspension until the distance between the center of the hub and the lip of the fender is equal to the measurement taken during removal (curb height).

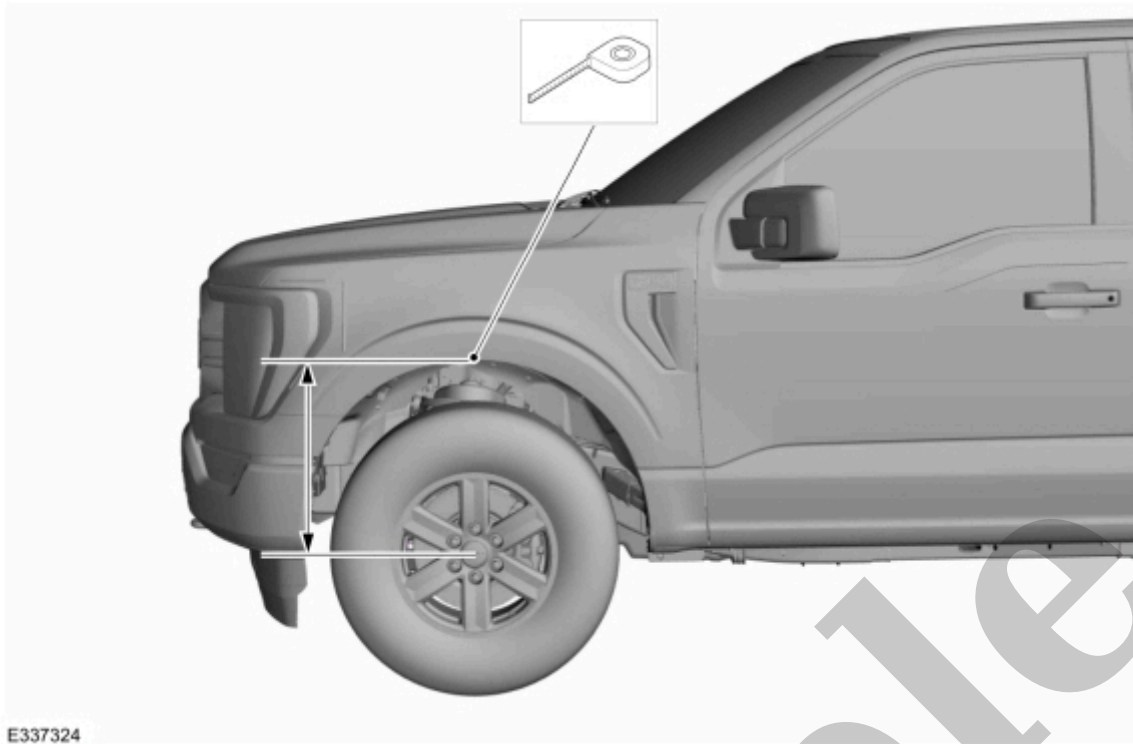
Use the General Equipment: Vehicle/Axle Stands



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6. Calibrate the suspension height sensor. Connect the scan tool and carry out the Ride Height Calibration routine. Follow the scan tool directions.

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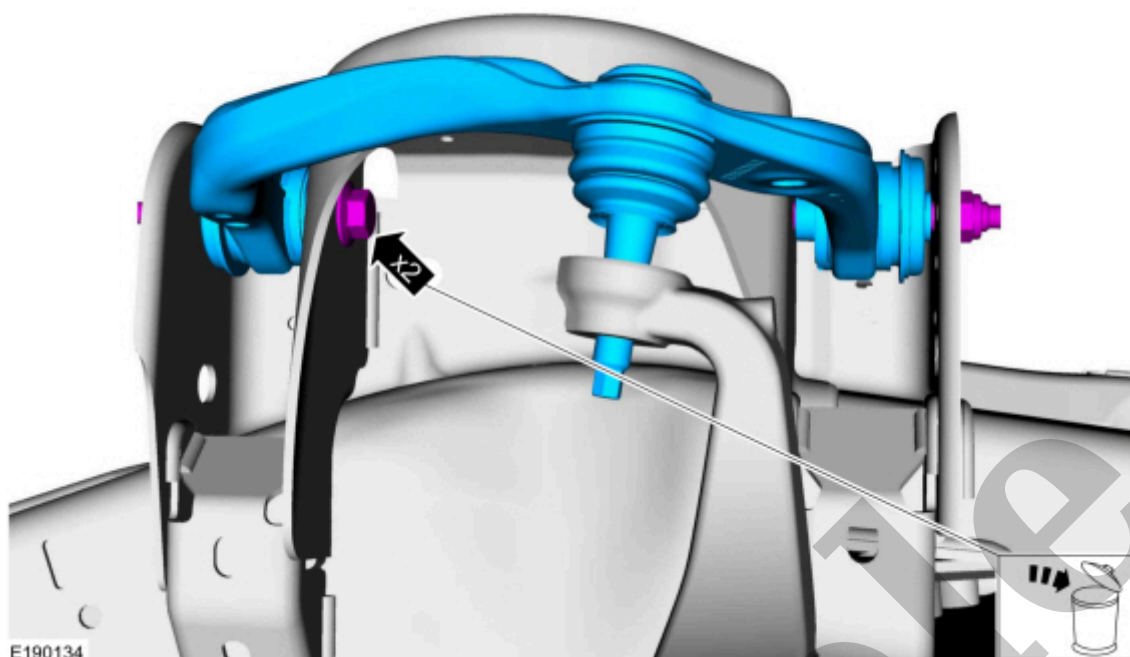
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## 2. NOTICE

The front suspension height sensor must be disconnected from the upper control arm prior to servicing suspension components or damage to the suspension height sensor and/or the vehicle dynamic suspension system may occur. The sensor will need to be recalibrated after reassembly.

If equipped.

- Disconnect the height sensor electrical connector and harness retainer.
- Remove the bolt and detach the height sensor arm from the upper control arm.



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

## Installation

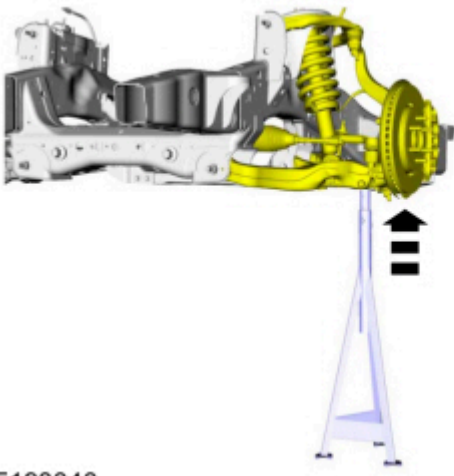
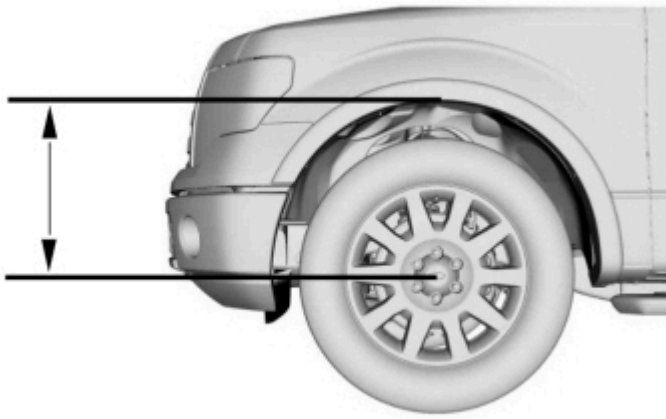
### NOTICE

Tighten the suspension bushing fasteners with the suspension loaded or with the weight of the vehicle resting on the wheels and tires, otherwise incorrect clamp load and bushing damage may occur.

### 1. NOTE

Only tighten the nuts and bolts finger tight at this stage.

Install the upper arm and install the 2 new upper arm bolts and nuts.



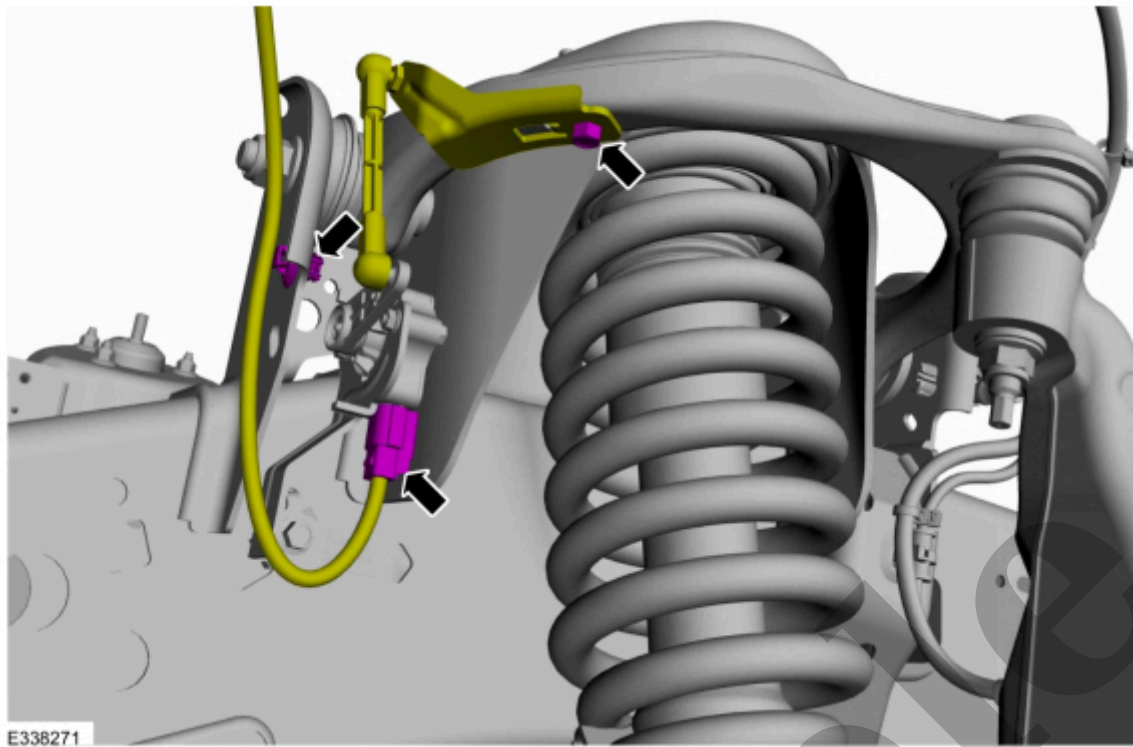
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4. Tighten the 2 new upper arm bolts and nuts.

***Torque*** : 122 lb.ft (165 Nm)





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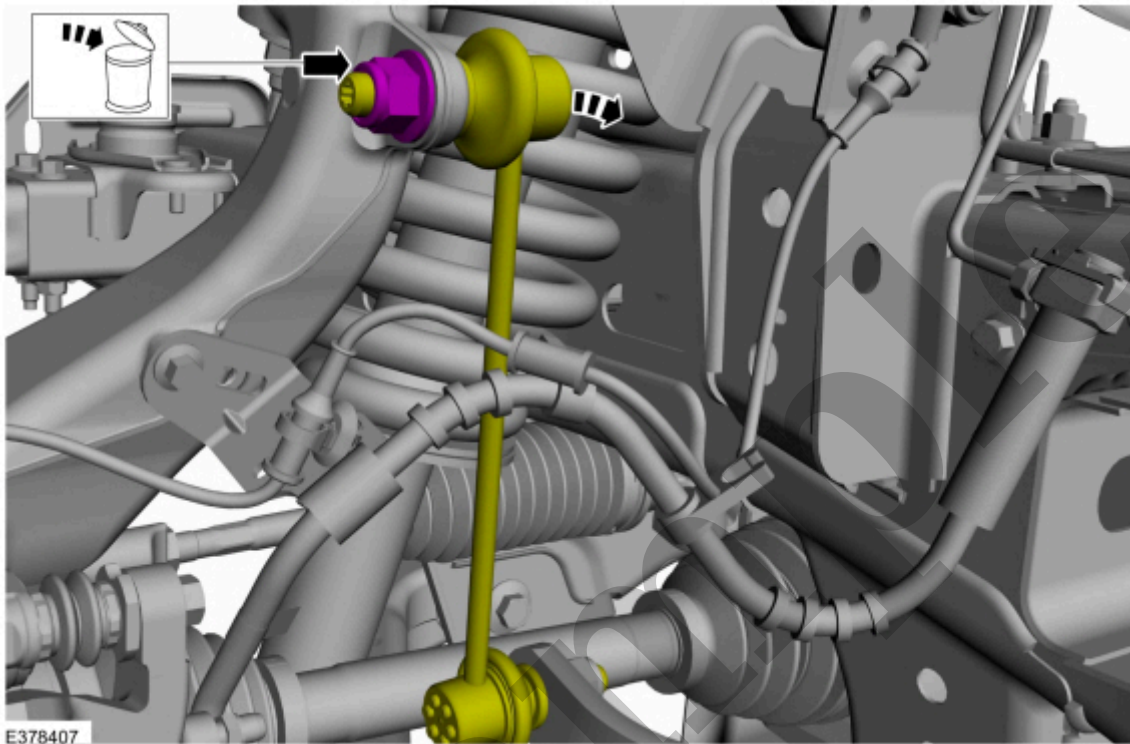
6. Calibrate the suspension system. Connect the scan tool and carry out the Ride Height Calibration routine. Follow the scan tool directions.

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## NOTE

Use the TORX PLUS® holding feature to prevent the ball stud from turning while removing or installing the stabilizer bar link nut. Torx® and TORX PLUS® is a reg. tm of Acument Intellectual Properties, LLC.

Remove and discard the front stabilizer bar link upper nut.



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

3. Disconnect the battery ground cable.

Refer to: [Battery Disconnect and Connect](#)(414-01 Battery, Mounting and Cables, General Procedures).

4. **NOTICE**

Do not use a hammer to separate the outer tie-rod end from the wheel knuckle or damage to the wheel knuckle may result.

## NOTICE

Use care when installing the tie rod separator or damage to the outer tie-rod end boot may occur.

Remove and discard the tie rod end nut and separate the tie rod end from the wheel knuckle.