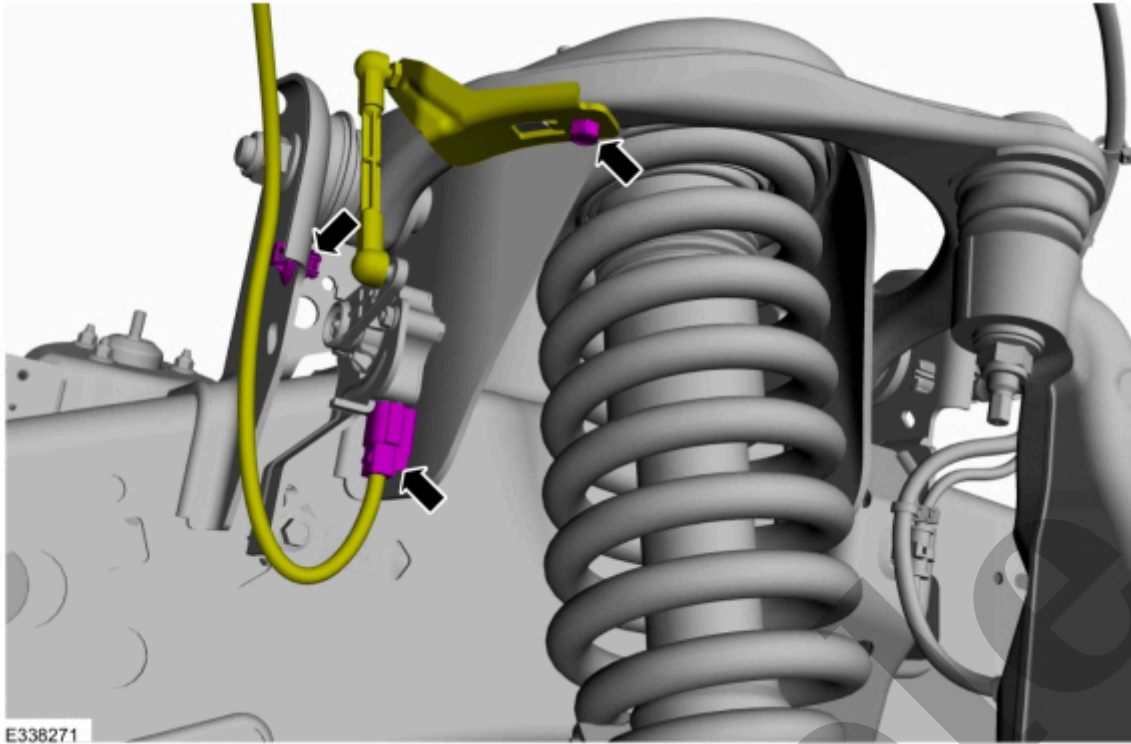


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## 2012 FORD Focus 4 Doors OEM Service and Repair Workshop Manual

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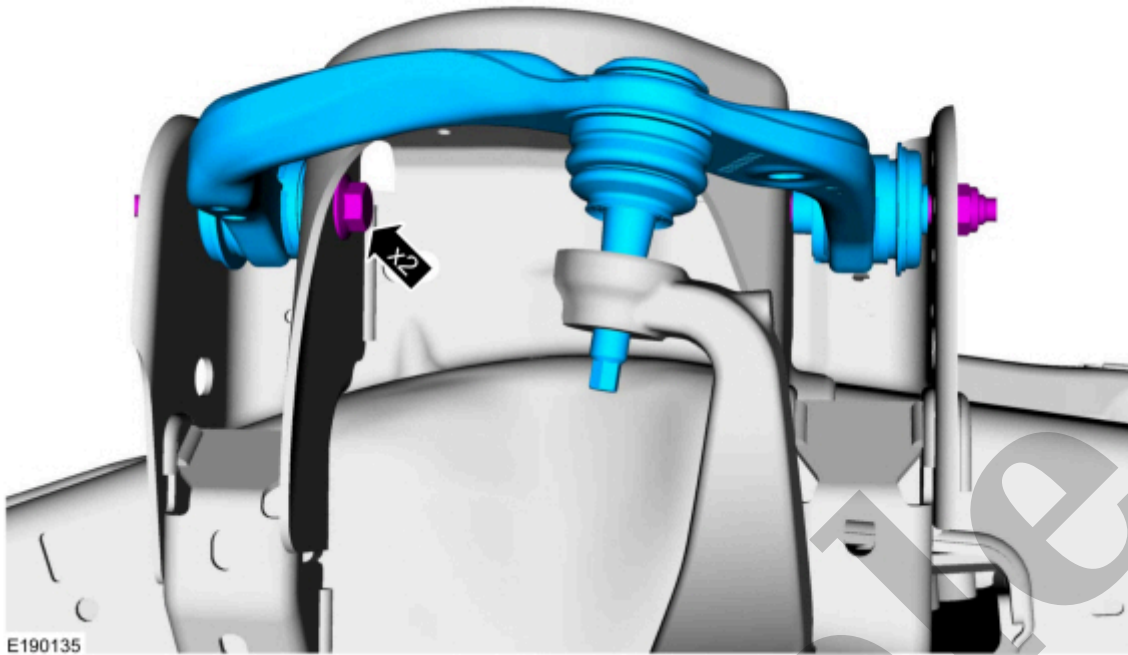


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3. Remove the shock absorber and spring assembly.

Refer to: [Shock Absorber and Spring Assembly](#)(204-01A Front Suspension - LHD RWD, Removal and Installation).

4. Remove and discard the 2 upper arm bolts and nuts and remove the upper arm.

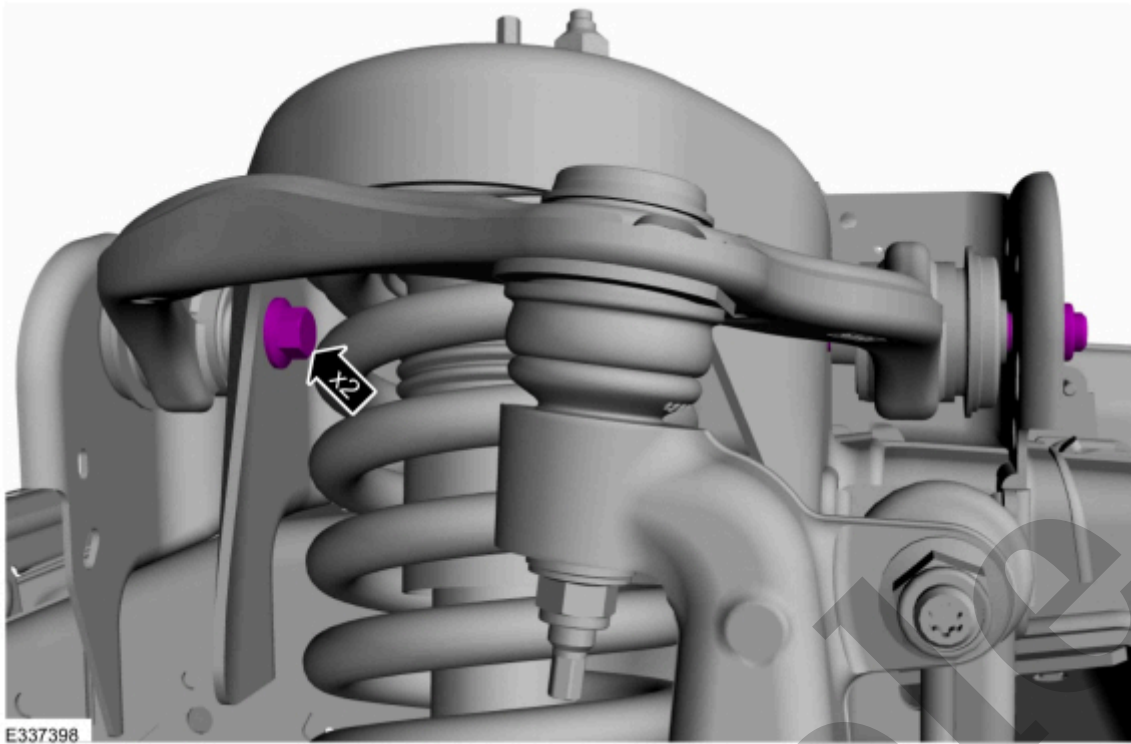


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2. Install the shock absorber and spring assembly.

Refer to: [Shock Absorber and Spring Assembly](#)(204-01A Front Suspension - LHD RWD, Removal and Installation).

3. 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).



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#### 5. 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.

- Position the height sensor and install the height sensor bracket bolt.

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

- Connect the height sensor electrical connector and harness retainer.

## Wheel Knuckle

<b>204-01A Front Suspension - LHD RWD</b>	<b>2022 F-150</b>
<b>Removal and Installation</b>	<b>Procedure revision date: 10/2/2020</b>

### Wheel Knuckle

#### 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. Remove the front wheel bearing and wheel hub.

Refer to: [Front Wheel Bearing and Wheel Hub](#)(204-01A Front Suspension - LHD RWD, Removal and Installation).

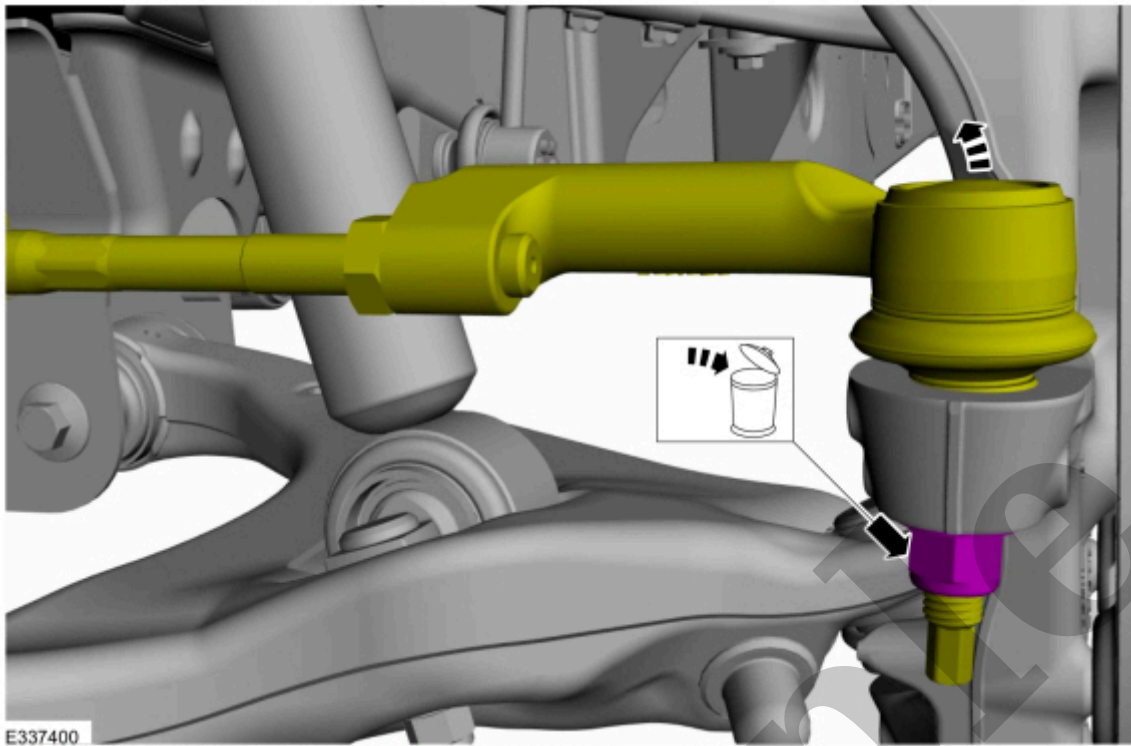
2. **NOTICE**

Do not use power tools to remove the stabilizer bar link nut. Damage to the stabilizer bar link ball joint or boot may occur.

##### NOTE

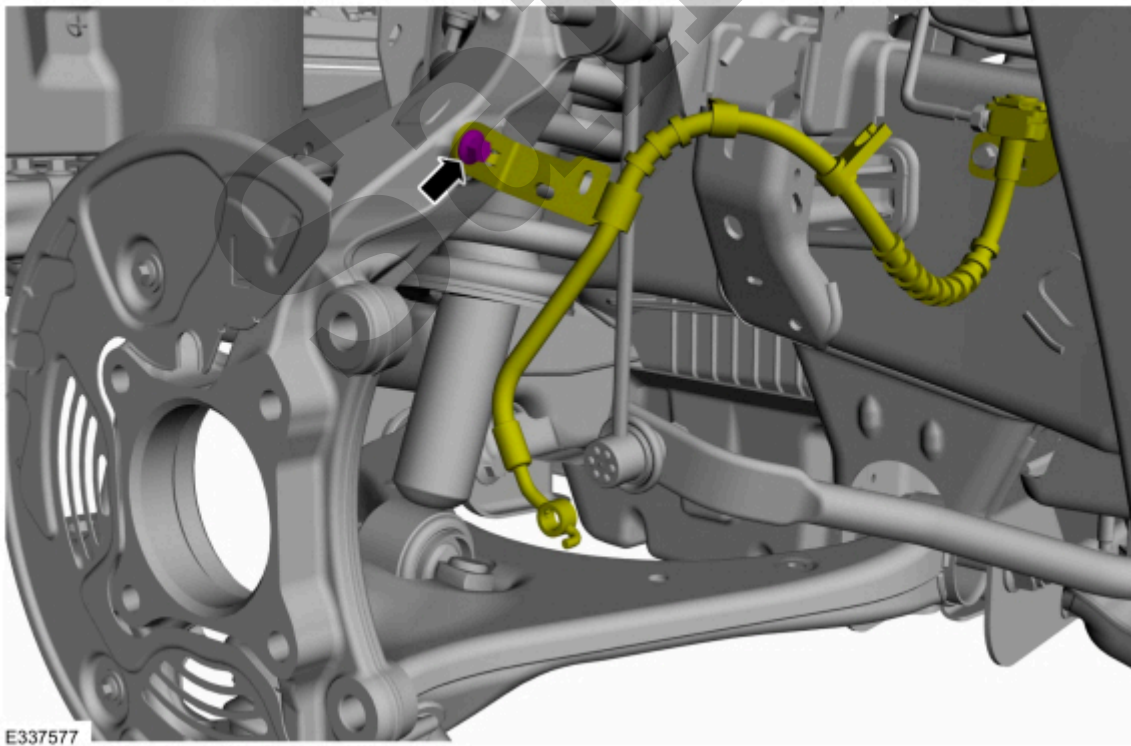
The stabilizer bar links are designed with low friction ball joints that have a low breakaway torque.

Use the General Equipment: Tie Rod End Remover

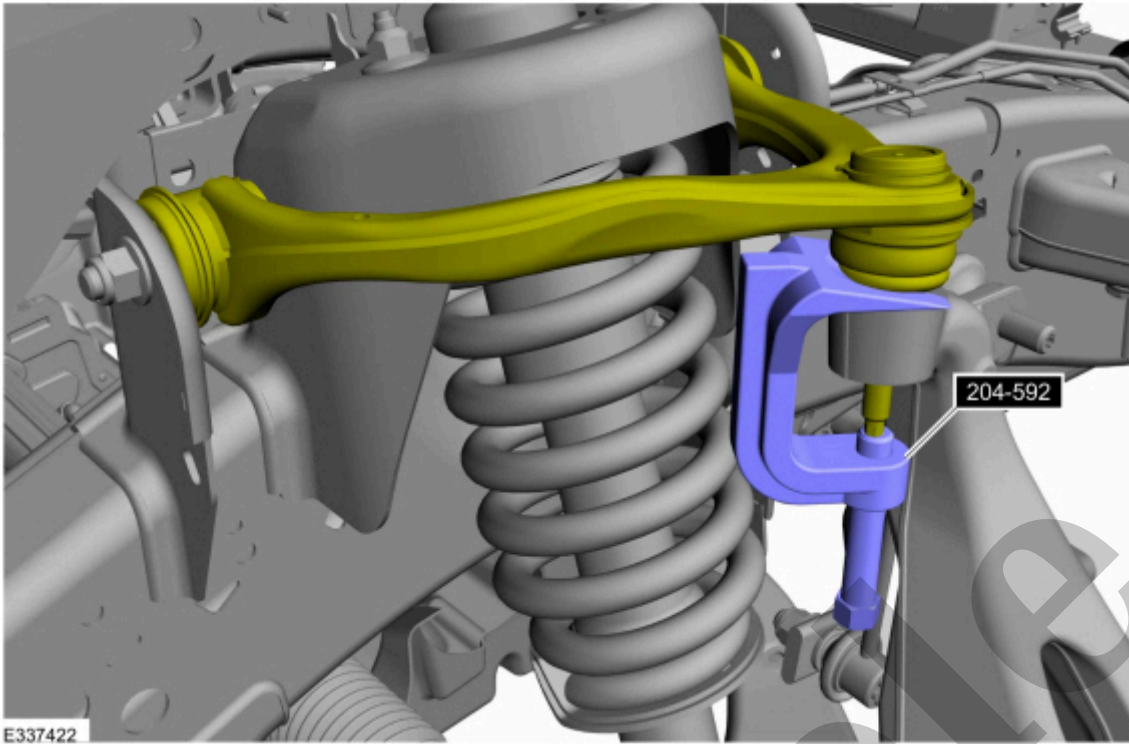


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5. Remove the brake hose bracket bolt and position the brake hose bracket aside.

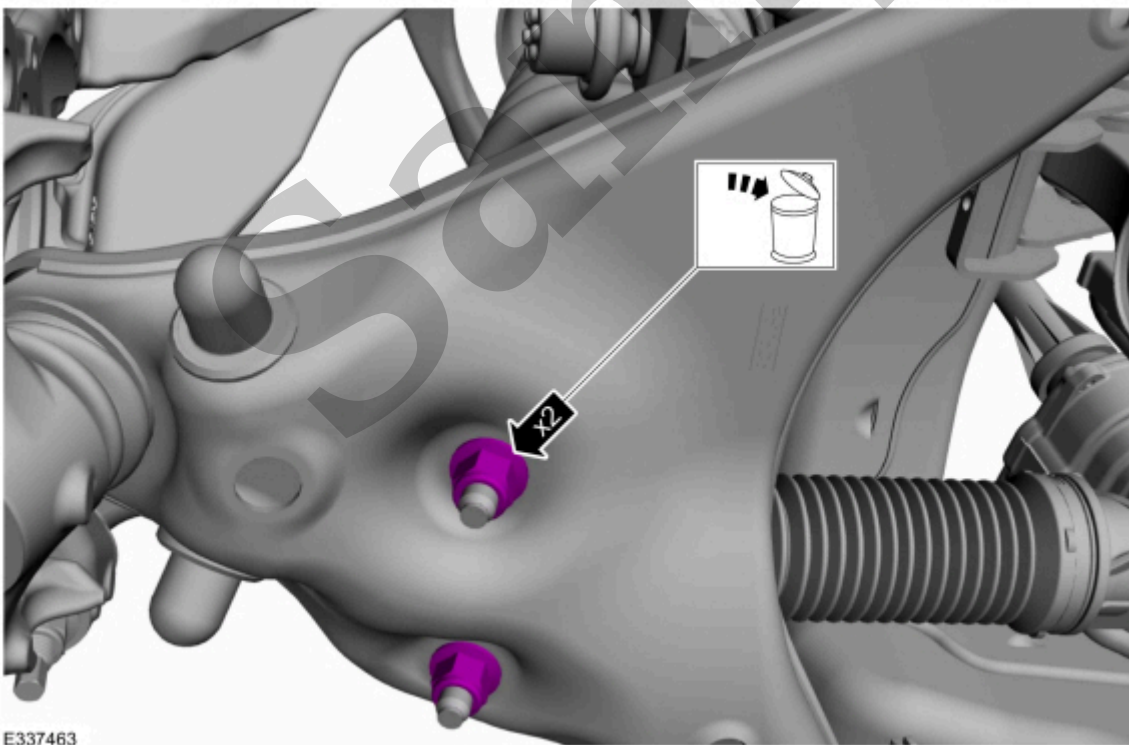


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[Click here to learn about symbols, color coding, and icons used in this manual.](#)

8. Remove and discard the shock absorber and spring assembly lower nuts.



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

9. Remove and discard the lower ball joint nut.

## 11. NOTICE

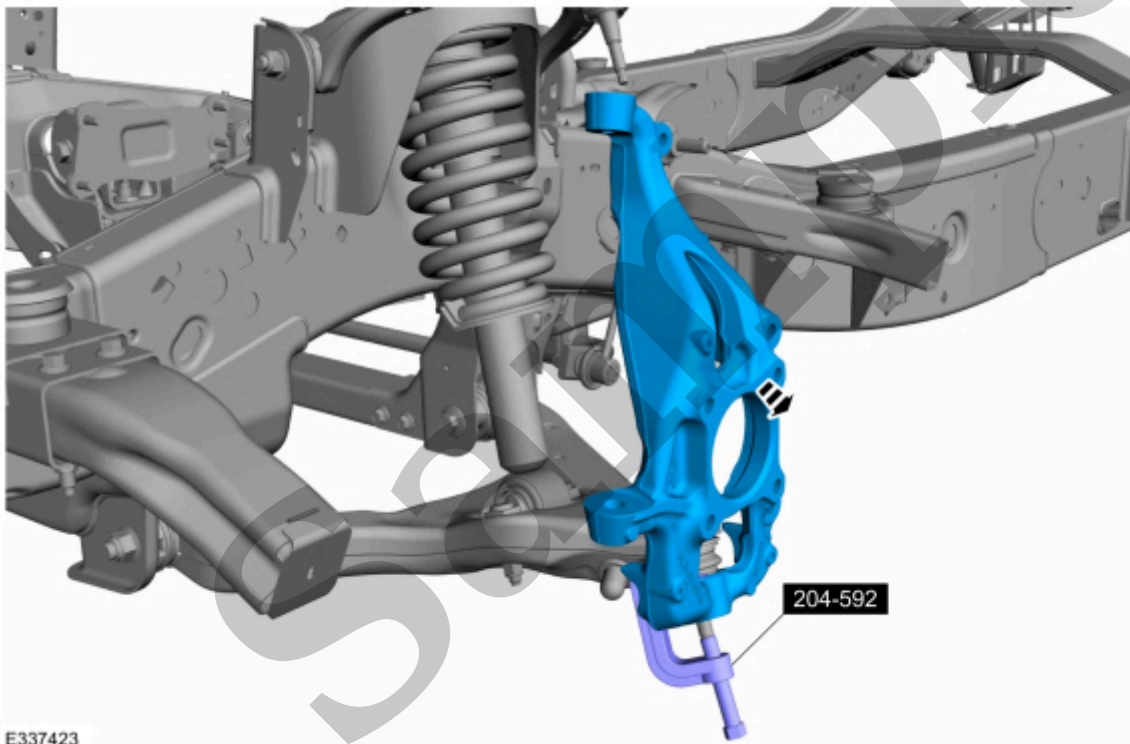
Do not use a prying device or separator fork between the ball joint and the wheel knuckle. Damage to the ball joint or ball joint seal may result.

## NOTICE

Use care when releasing the lower arm and wheel knuckle into the resting position or damage to the ball joint seal may occur.

Separate the wheel knuckle from the lower ball joint and remove the wheel knuckle.

**Use Special Service Tool** : 204-592 Separator, Lower Arm Ball Joint



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## Installation

1. Install the wheel knuckle.
2. Install the new lower ball joint nut.

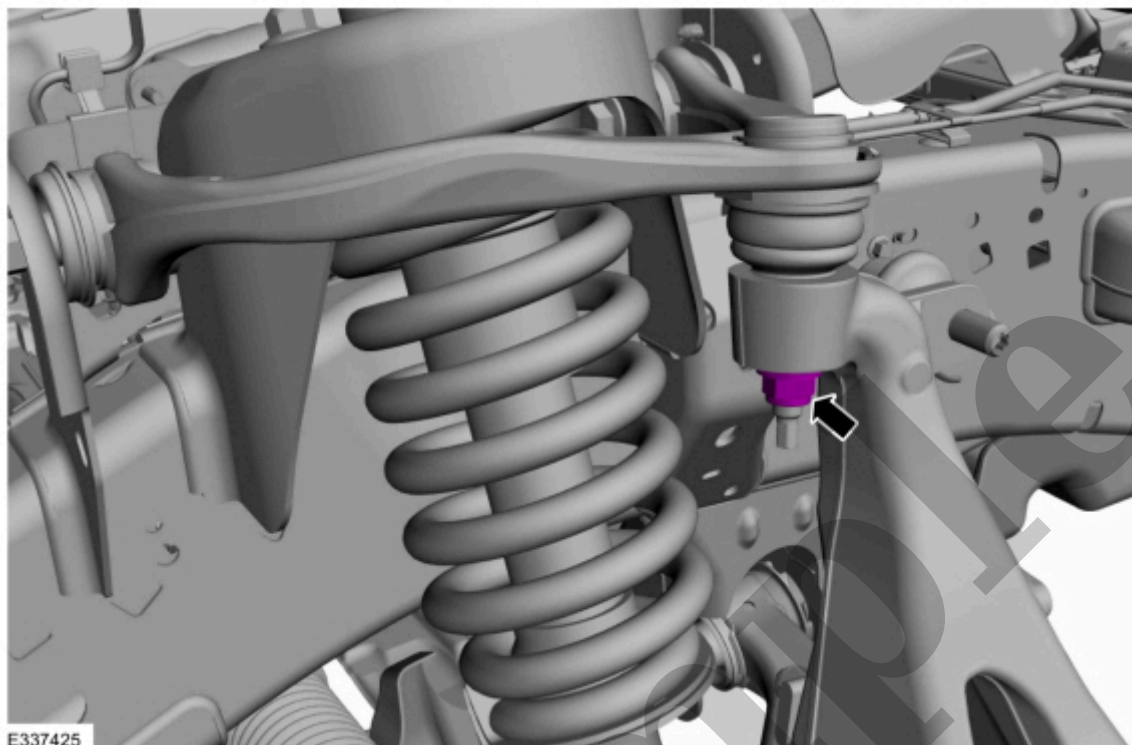
**Torque** : 98 lb.ft (133 Nm)



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

3. Install the new upper ball joint nut.

**Torque** : 46 lb.ft (63 Nm)



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

4. Install the 2 new shock absorber and spring assembly lower nuts.

**Torque** : 66 lb.ft (90 Nm)

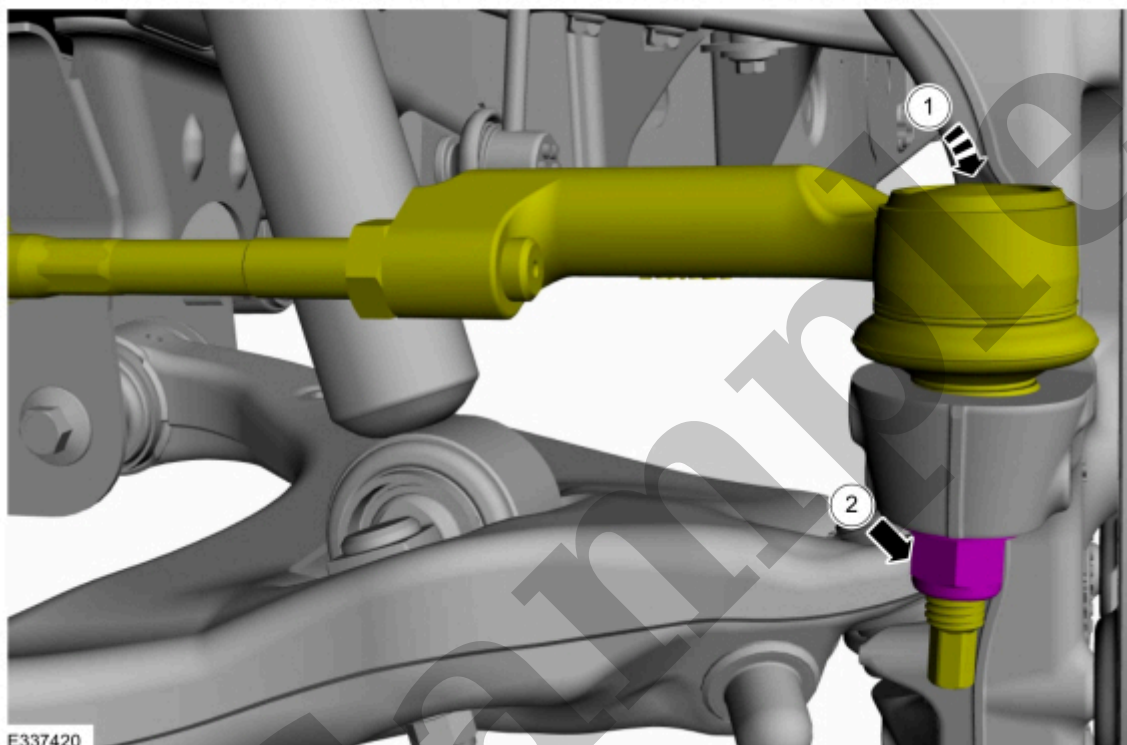
1. Connect the tie rod end to the wheel knuckle.

2. **NOTE**

Use the hex-holding feature to prevent the stud from turning while installing the nut.

Install the new tie rod end nut.

**Torque** : 66 lb.ft (90 Nm)



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

7. Connect the battery ground cable.

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

8. **NOTICE**

Do not use power tools to remove the stabilizer bar link nut. Damage to the stabilizer bar link ball joint or boot may occur.

**NOTE**