

SECTION 502-00 Uni-Body, Subframe and Mounting System

VEHICLE APPLICATION: **2011.00 Focus**

CONTENTS	PAGE
SPECIFICATIONS	
Specifications.....	502-00-2
REMOVAL AND INSTALLATION	
Front Axle Crossmember.....	502-00-3
Front Axle Crossmember — 2.5L Duratec-RS (224kW/305PS) - VI5.....	502-00-12
Front Axle Crossmember Front Bushing.....	502-00-17
Front Axle Crossmember Rear Bushing.....	502-00-20
Rear Axle Crossmember — Vehicles With: Solid Stabilizer Bar Link, Vehicles Without: Fuel Additive Tank.....	502-00-27
Rear Axle Crossmember — Vehicles With: Ball Joint Stabilizer Bar Link, Vehicles Without: Fuel Additive Tank.....	502-00-37

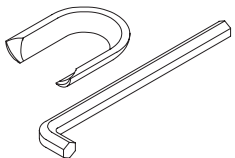
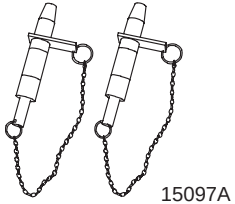
SPECIFICATIONS**Torque Specifications**

Item	Nm	lb-ft	lb-in
Catalytic converter to rear muffler flange retaining nuts - Vehicles with diesel engine	51	38	-
Catalytic converter to rear muffler flange retaining nuts - All except vehicles with diesel engine	48	35	-
Engine support insulator retaining bolts	80	59	-
Stabilizer bar clamp retaining bolts	48	35	-
Lower arm rear clamp retaining bolts	115	85	-
Lower arm front retaining bolt	175	129	-
Front axle crossmember bracket retaining bolts	70	52	-
Front axle crossmember front retaining bolts	115	85	-
Front axle crossmember rear retaining bolts	275	203	-
Steering gear mounting bolts	90	66	-
Lower arm ball joint retaining nut	70	52	-
Stabilizer bar to stabilizer bar link retaining nut	48	35	-
Headlamp leveling front sensor bracket retaining bolt	8	-	71
Rear axle crossmember retaining bolts	125	92	-
Rear lower arm to wheel knuckle retaining bolt	115	85	-
Upper arm retaining bolts	115	85	-
Front lower arm retaining bolts	115	85	-
Stabilizer bar link to rear lower arm retaining nut - Vehicles with solid stabilizer bar link	25	18	-
Stabilizer bar link to rear lower arm retaining nut - Vehicles with ball joint stabilizer bar link	48	35	-
Fuel additive tank retaining screws	8	-	71
Rear lower arm adjustment cam nut	90	66	-

REMOVAL AND INSTALLATION

Front Axle Crossmember

Special Tool(s)

 E42949	Protector, Ball Joint Gaiter 204-349
 15097A	Alignment Pins, Subframe 205-316 (15-097A)

General Equipment

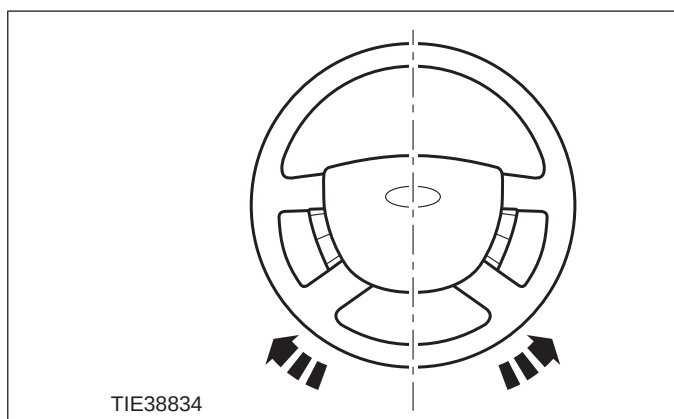
Ball joint separator
Securing strap
Transmission jack

CAUTION: Make sure the strut and spring assembly does not move in a forwards or rearwards direction, to prevent damage to the top mount center cup.

All vehicles

- NOTE:** Make sure the road wheels are in the straight ahead position.

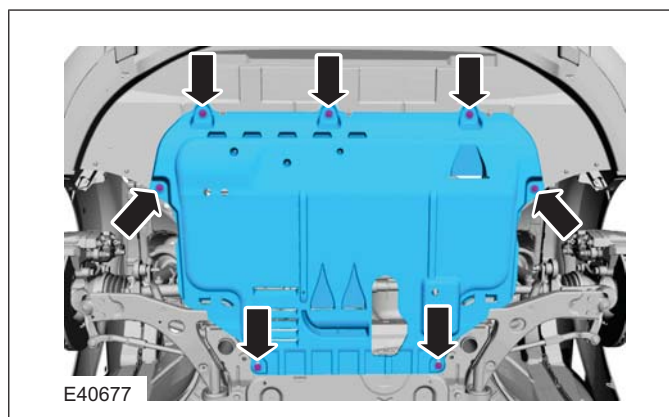
Centralize the steering wheel and lock it in position.



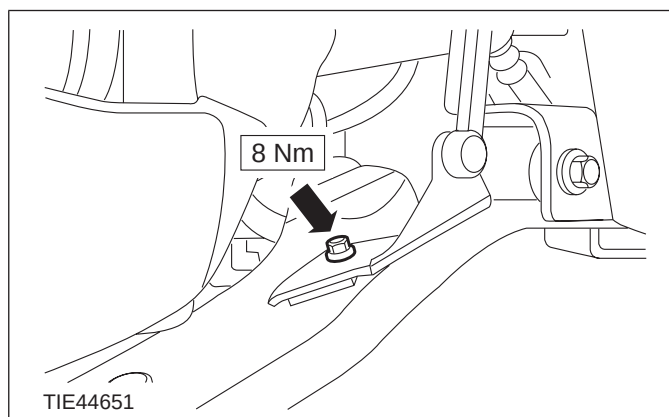
- Remove the front wheels and tires.

For additional information, refer to: **Wheel and Tire** (204-04 Wheels and Tires, Removal and Installation).

- Remove the engine undershield.

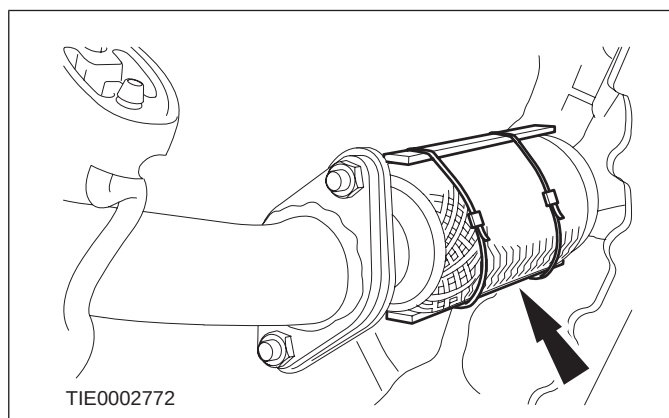


- Detach the headlamp leveling front sensor bracket from the right-hand lower arm and secure it to one side (if equipped).



- CAUTION:** Over bending of the exhaust flexible pipe may cause damage resulting in failure.

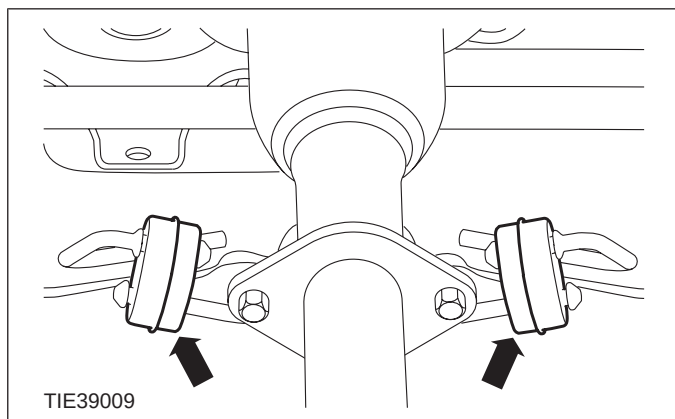
Support the exhaust flexible pipe with a suitable support wrap or a suitable splint.



REMOVAL AND INSTALLATION

6. **⚠ CAUTION:** Take care when removing the exhaust hanger insulators to prevent damage.

Detach the exhaust flexible pipe from the front axle crossmember exhaust hanger insulators.

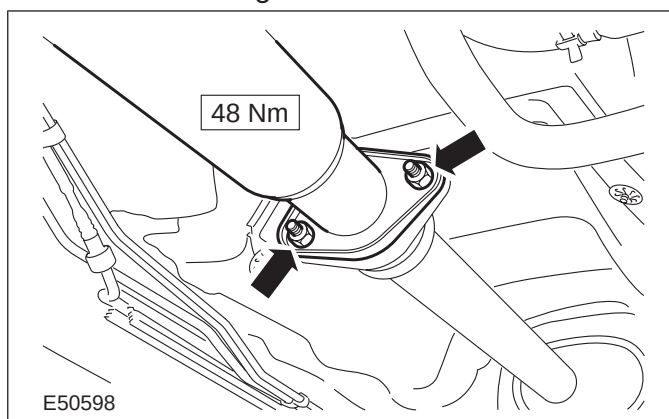


All except vehicles with diesel engine

7. **⚠ CAUTION:** Using suitable cable ties, support the rear muffler and exhaust tailpipe assembly to prevent damage to the exhaust hanger insulators.

Detach the exhaust flexible pipe from the rear muffler flange.

- Discard the gasket and nuts.

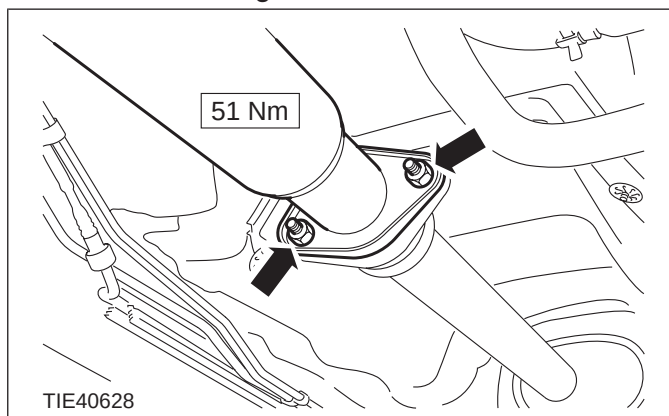


Vehicles with diesel engine

8. **⚠ CAUTION:** Using suitable cable ties, support the rear muffler and exhaust tailpipe assembly to prevent damage to the exhaust hanger insulators.

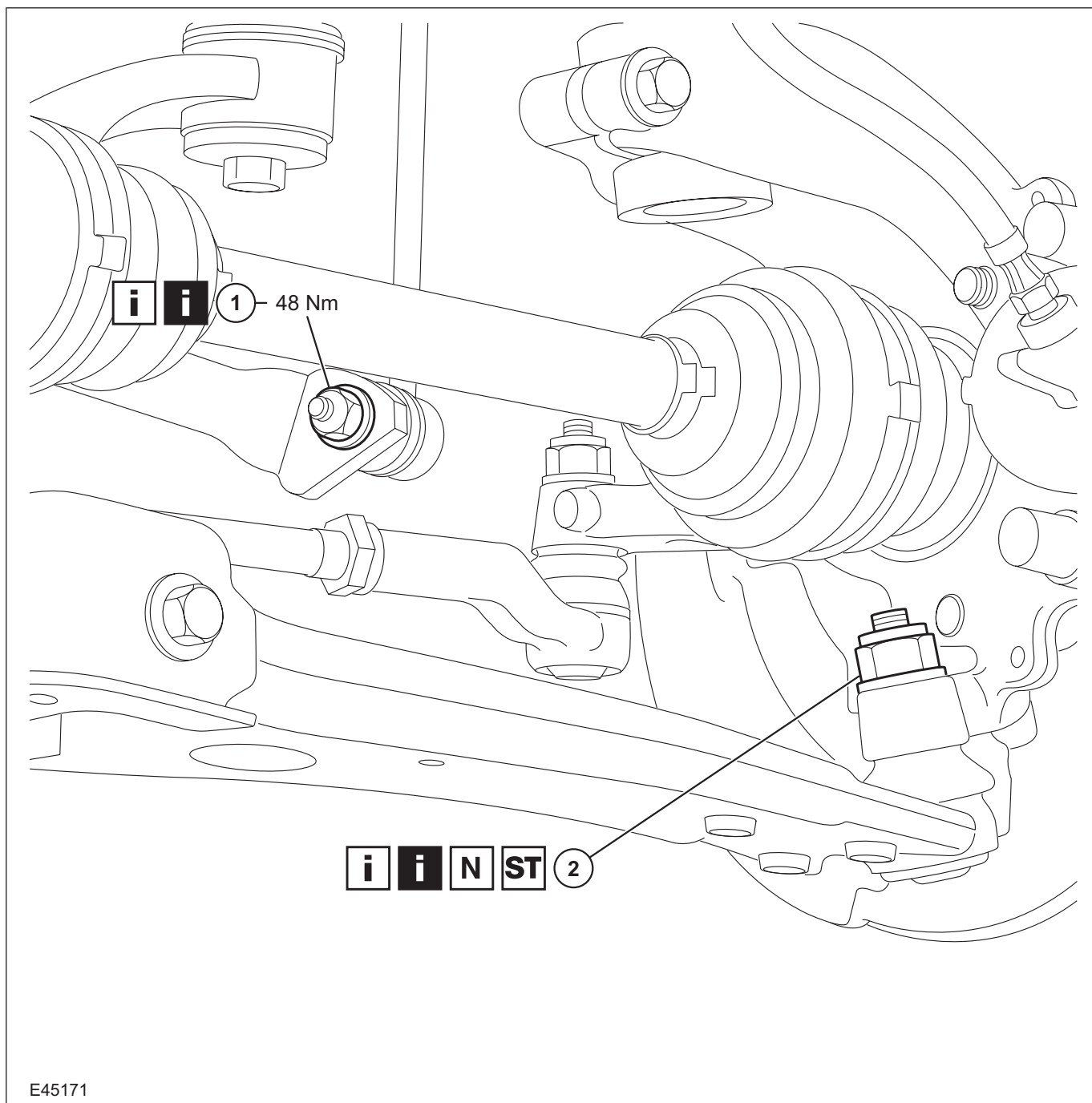
Detach the exhaust flexible pipe from the rear muffler flange (2.0L Duratorq-TDCi (DW) Diesel shown).

- Discard the gasket and nuts.



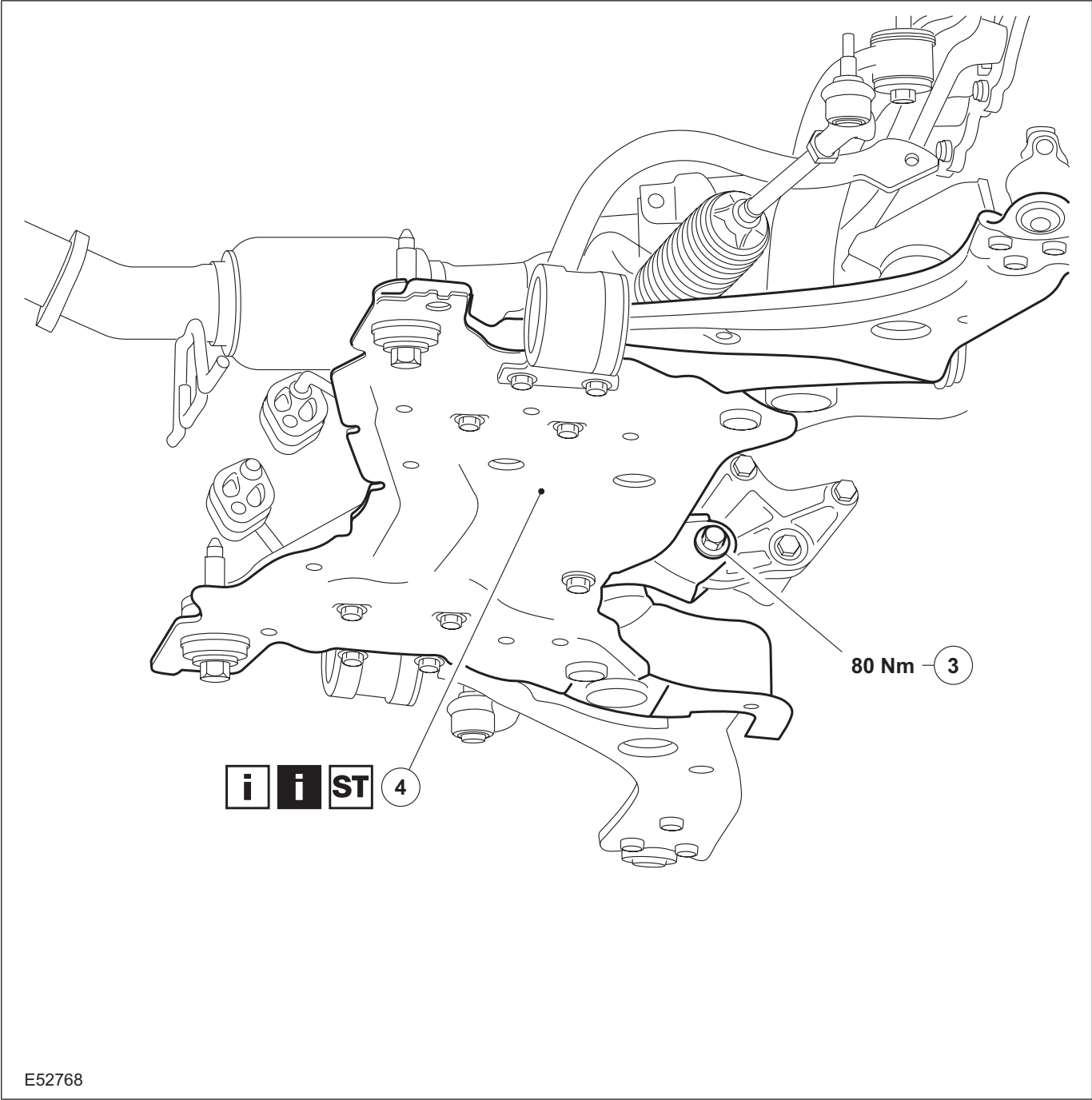
9. Remove the components in the order indicated in the following illustration(s) and table(s).

REMOVAL AND INSTALLATION



Item	Description
1	Stabilizer bar link retaining nut See Removal Detail See Installation Detail
2	Lower arm ball joint retaining nut See Removal Detail See Installation Detail

REMOVAL AND INSTALLATION



Item	Description
3	Engine support insulator front retaining bolt
4	Front axle crossmember See Removal Detail See Installation Detail

10. To install, reverse the removal procedure.

11. Check the toe setting and adjust as necessary.

For additional information, refer to:
Specifications (204-00 Suspension System - General Information, Specifications)
/ **Front Toe Adjustment** (204-00 Suspension System - General Information, General Procedures).

Removal Details

REMOVAL AND INSTALLATION

Item 1 Stabilizer bar link retaining nut

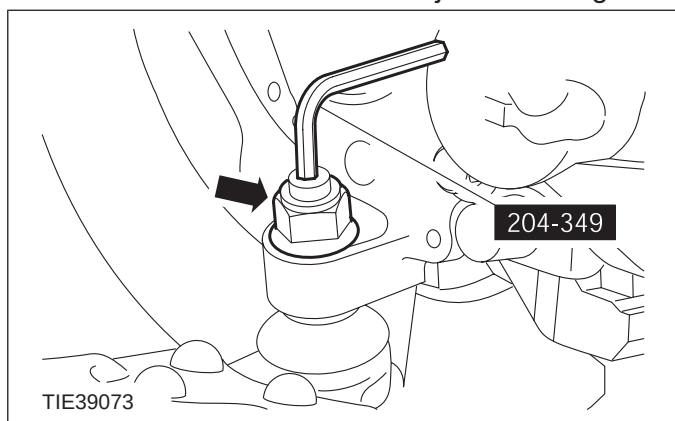
1. **NOTE:** Use a 5 mm Allen key to prevent the ball joint stud from rotating.

Detach the stabilizer bar link from the stabilizer bar on both sides.

Item 2 Lower arm ball joint retaining nut

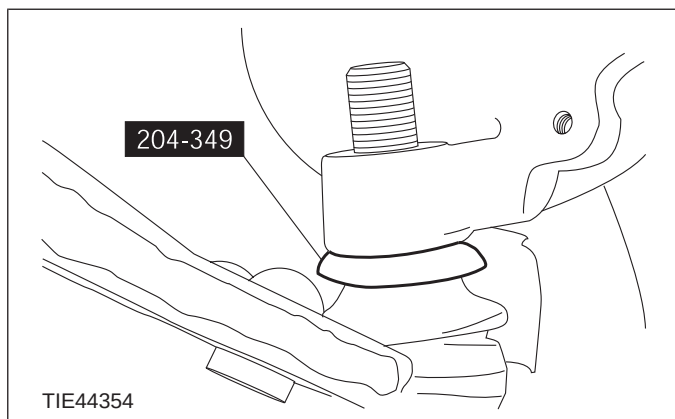
1. Using the special tool to prevent the ball joint rotating, remove the lower arm ball joint retaining nut on both sides.

- Discard the lower arm ball joint retaining nut.

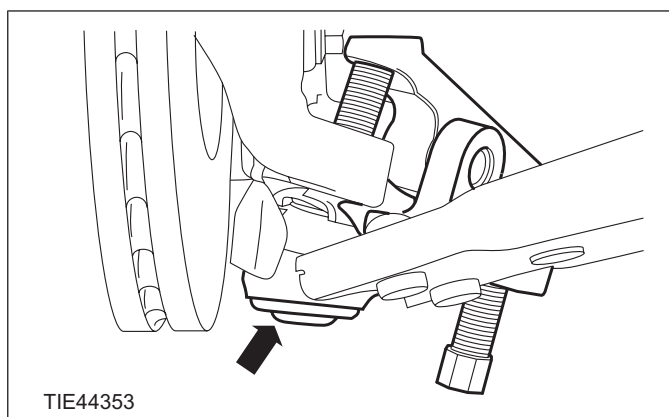


2. **CAUTION:** Make sure the special tool is installed with the curved surface facing upwards to prevent damage to the ball joint seal.

Install the special tool.

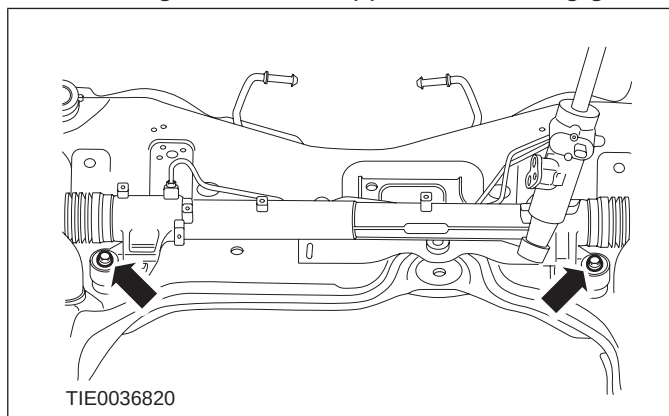


3. Using a suitable ball joint separator, detach the lower arm from the wheel knuckle on both sides.

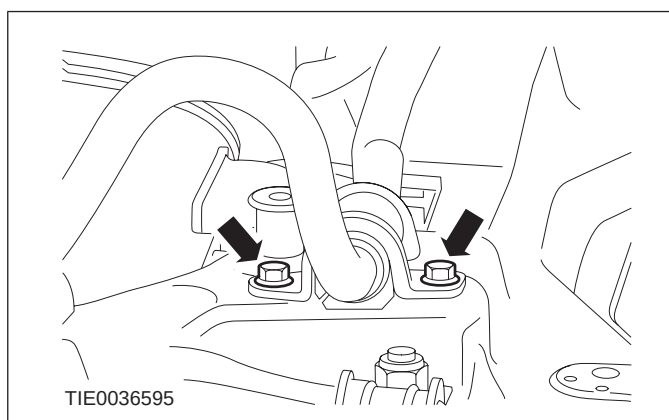
**Item 4 Front axle crossmember**

1. Detach the steering gear from the front axle crossmember.

- Using cable ties, support the steering gear.



2. Loosen the stabilizer bar retaining bolts on both sides.



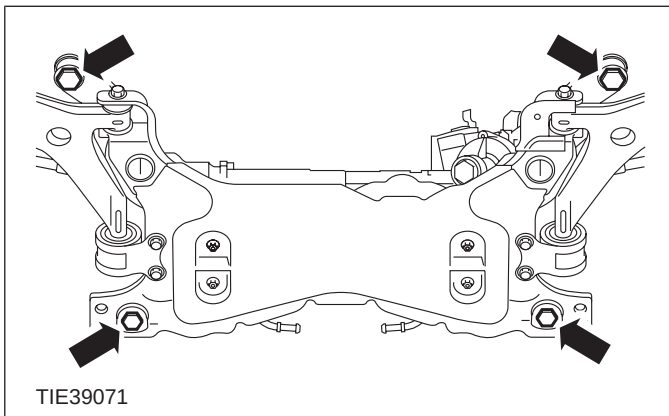
3. Using a transmission jack and a wooden block, support the front axle crossmember, stabilizer bar and lower arm assembly.

REMOVAL AND INSTALLATION

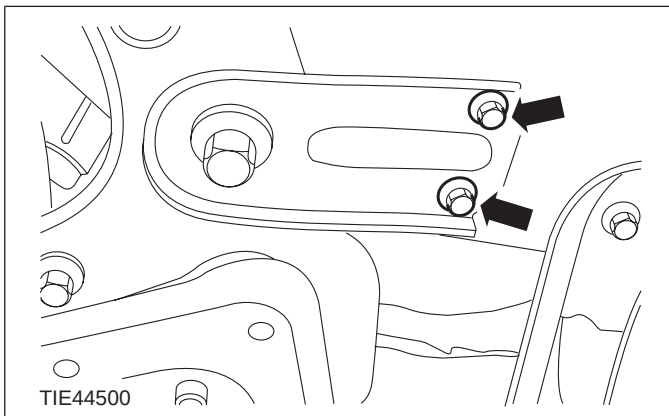
4. **⚠ WARNING:** Make sure the front axle crossmember is secured to the transmission jack. Failure to follow this instruction may result in personal injury.

Using a suitable securing strap, secure the front axle crossmember, stabilizer bar and lower arm assembly to the transmission jack.

5. Remove the front axle crossmember retaining bolts (transmission jack shown removed for clarity).

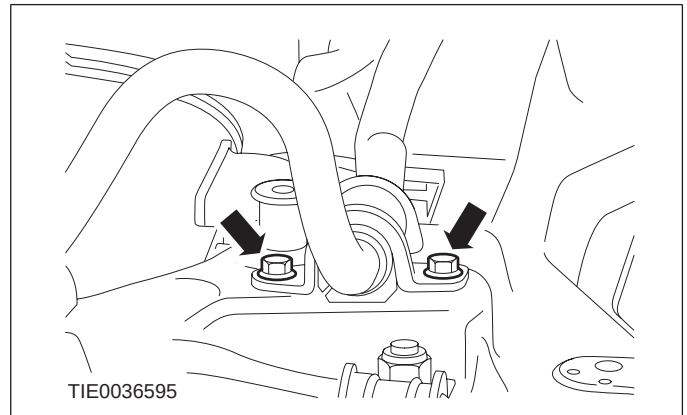


6. Remove the front axle crossmember bracket retaining bolts on both sides.



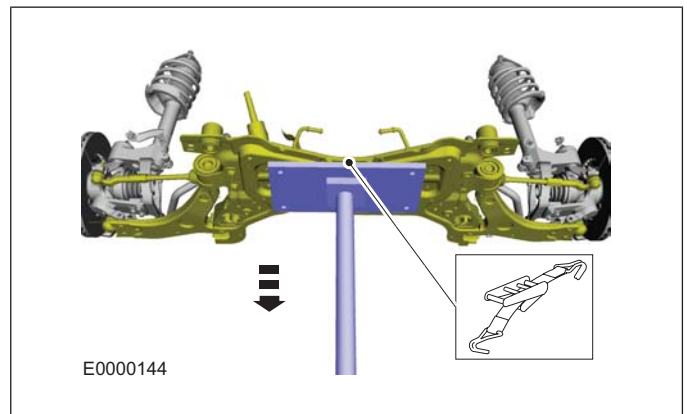
7. Lower the front axle crossmember, stabilizer bar and lower arm assembly approximately 50 mm.

8. Remove the stabilizer bar retaining bolts on both sides.



9. **NOTE:** When lowering the front axle crossmember, stabilizer bar and lower arm assembly, make sure the stabilizer bar is clear of the steering gear.

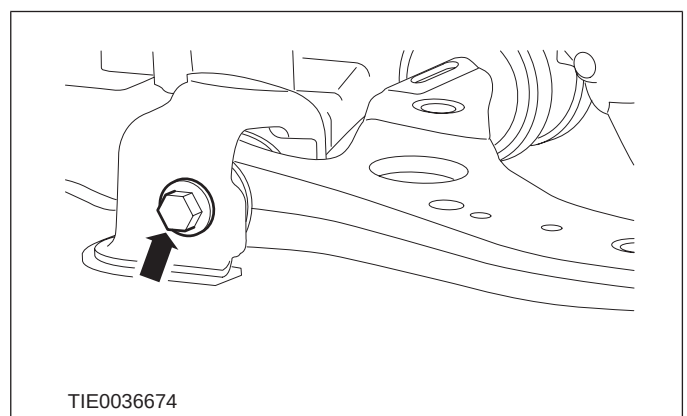
Remove the front axle crossmember, stabilizer bar and lower arm assembly.



10. Remove the stabilizer bar.

11. **NOTE:** If installing a new front axle crossmember, remove the lower arms.

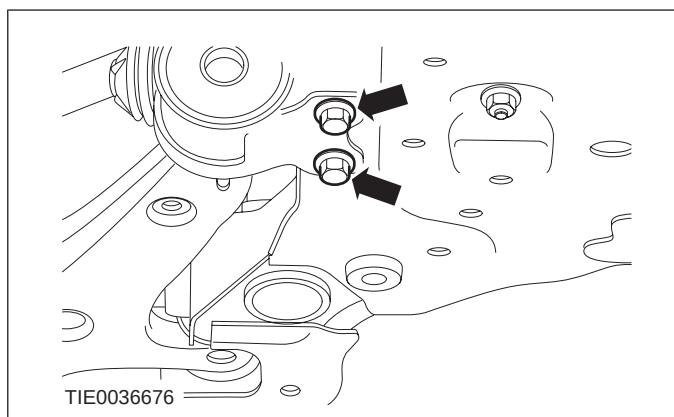
Remove the lower arm front retaining bolt on both sides.



REMOVAL AND INSTALLATION

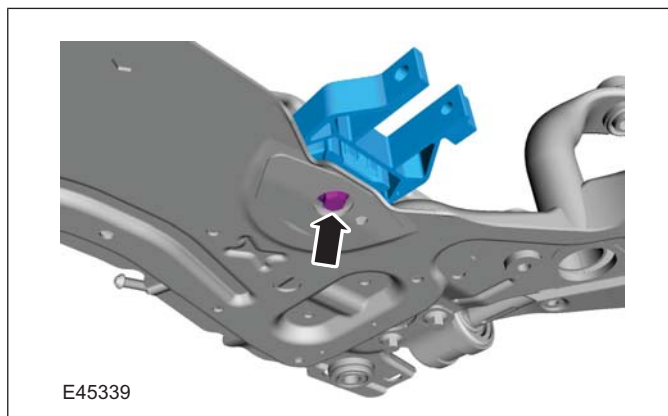
12. **NOTE:** If installing a new front axle crossmember, remove the lower arms.

Remove the lower arm on both sides.



13. **NOTE:** If installing a new front axle crossmember, remove the engine support insulator.

Remove the engine support insulator.

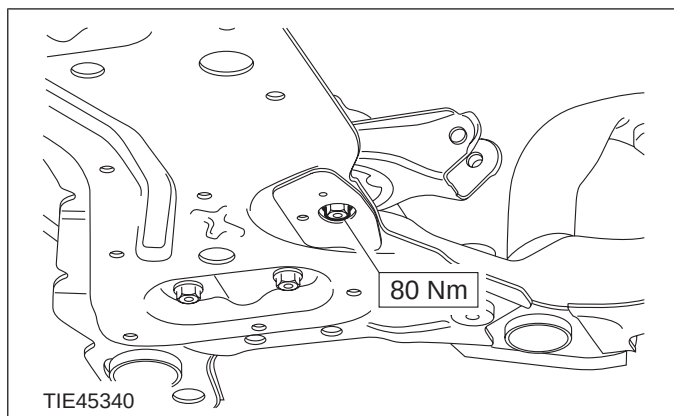


Installation Details

Item 4 Front axle crossmember

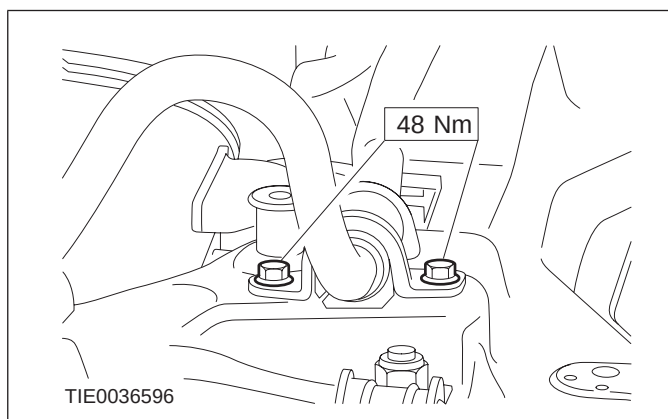
1. **NOTE:** If installing a new front axle crossmember, install the engine support insulator.

Install the engine support insulator.



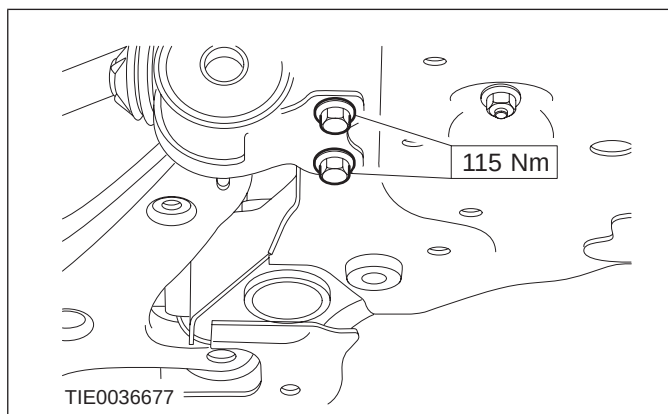
2. Install the stabilizer bar.

- Install the stabilizer bar clamp retaining bolts on both sides.



3. **NOTE:** If installing a new front axle crossmember, install the lower arms.

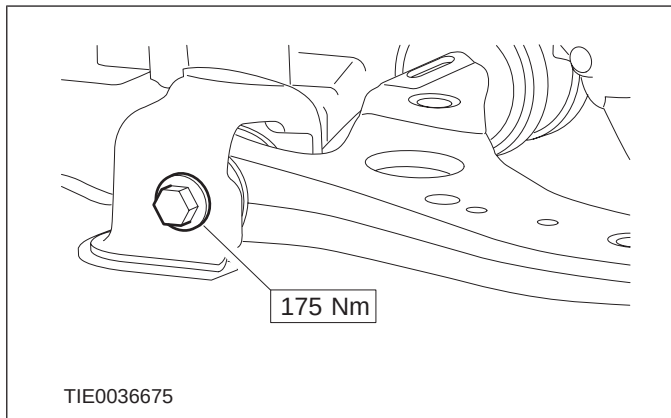
Install the lower arm rear clamp retaining bolts on both sides.



REMOVAL AND INSTALLATION

4. **NOTE:** If installing a new front axle crossmember, install the lower arms.

Install the lower arm on both sides.



5. Using a transmission jack and a wooden block, support the front axle crossmember, stabilizer bar and lower arm assembly.

6. **WARNING:** Make sure the front axle crossmember is secured to the transmission jack. Failure to follow this instruction may result in personal injury.

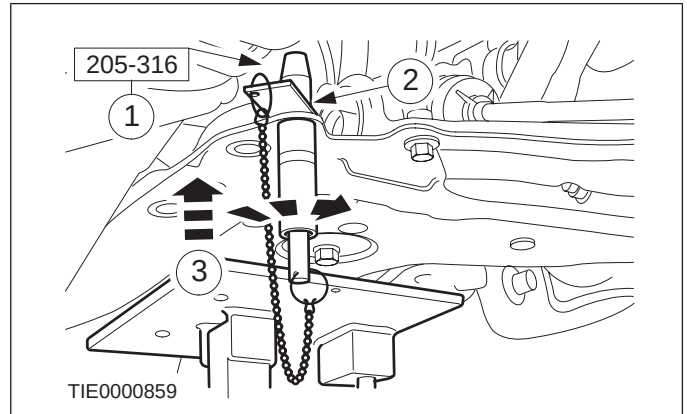
Using a suitable securing strap secure the front axle crossmember, stabilizer bar and lower arm assembly to the transmission jack.

7. Using the transmission jack, position and raise the front axle crossmember until the front axle crossmember is approximately 100 mm from the body.

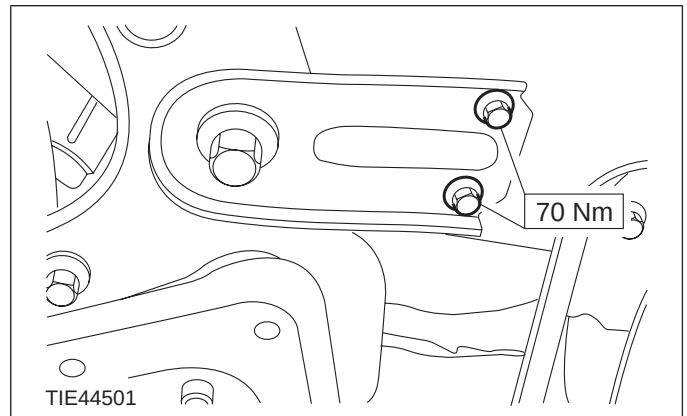
8. Using the transmission jack and the special tool, position and align the front axle crossmember.

1. Insert the alignment pins through the front axle crossmember alignment holes.
2. Slide the locking plates into the groove of the special tool and tighten the alignment pin sleeve.

3. Raise the front axle crossmember engaging the alignment pins into the chassis aligning holes.

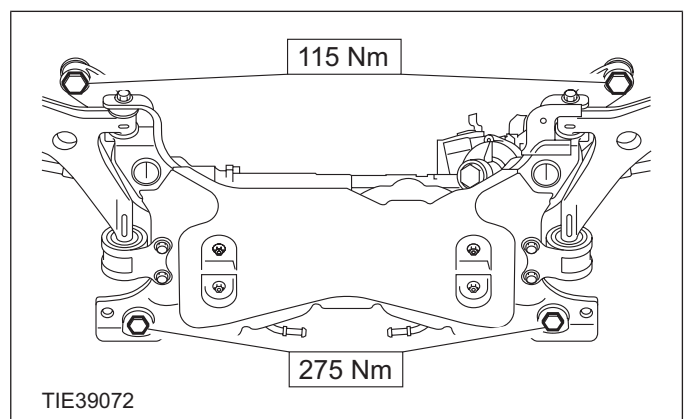


9. Install the front axle crossmember bracket retaining bolts on both sides.



10. **CAUTION:** Make sure the front axle crossmember does not move while tightening the front axle crossmember retaining bolts.

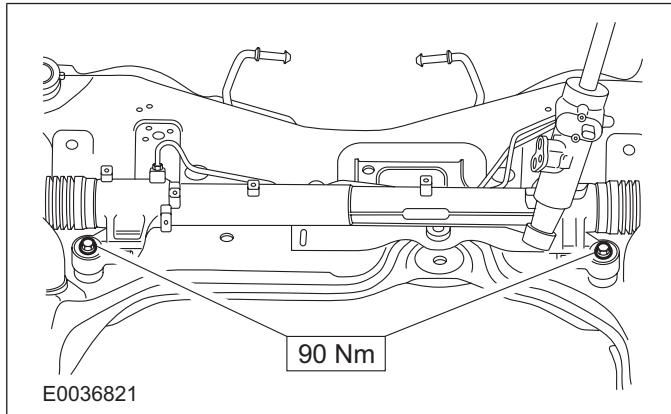
Install the front axle crossmember retaining bolts (transmission jack shown removed for clarity).



11. Remove the securing strap.

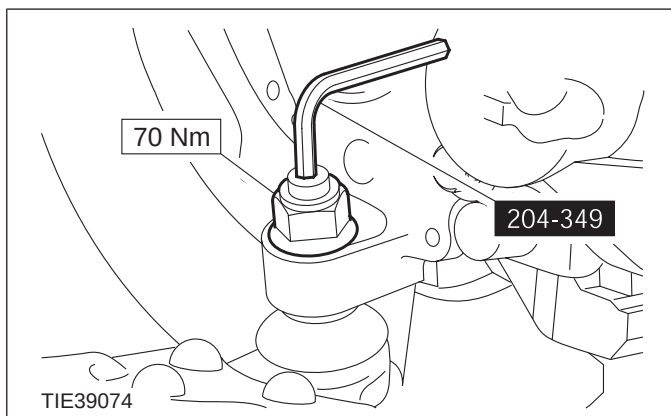
REMOVAL AND INSTALLATION

12. Lower and remove the transmission jack and the wooden block.
13. Attach the steering gear to the front axle crossmember.
 - Remove the cable ties.

**Item 2 Lower arm ball joint retaining nut**

1. **⚠ WARNING:** Install a new lower arm ball joint retaining nut. Failure to follow this instruction may result in personal injury.

Using the special tool to prevent the ball joint from rotating, install the lower arm ball joint retaining nut on both sides.

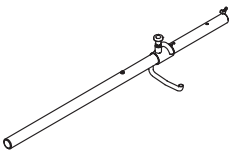
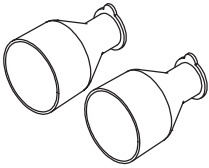
**Item 1 Stabilizer bar link retaining nut**

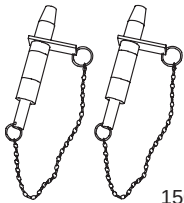
1. **NOTE:** Use a 5 mm Allen key to prevent the ball joint stud from rotating.

Attach the stabilizer bar link to the stabilizer bar on both sides.

REMOVAL AND INSTALLATION

Front Axle Crossmember — 2.5L Duratec-RS (224kW/305PS) - VI5

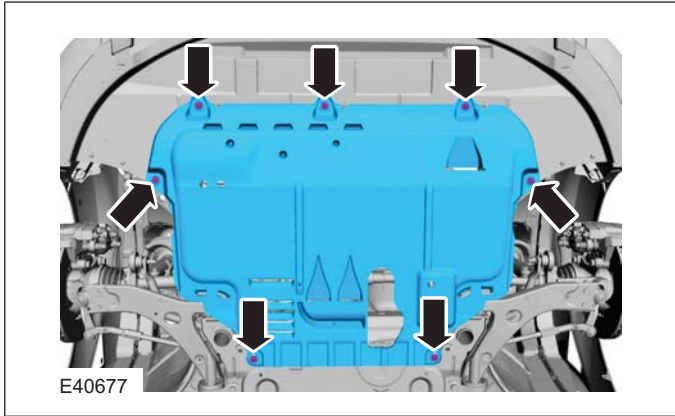
Special Tool(s)  E63772	204-605 Separator, Lower Arm Ball Joint
 E75372	204-609 Protection Cap, Ball Joint Gaiter

Special Tool(s)  15097A	205-316A Alignment Pins, Subframe
General Equipment Cable Ties Retaining Strap Transmission Jack	

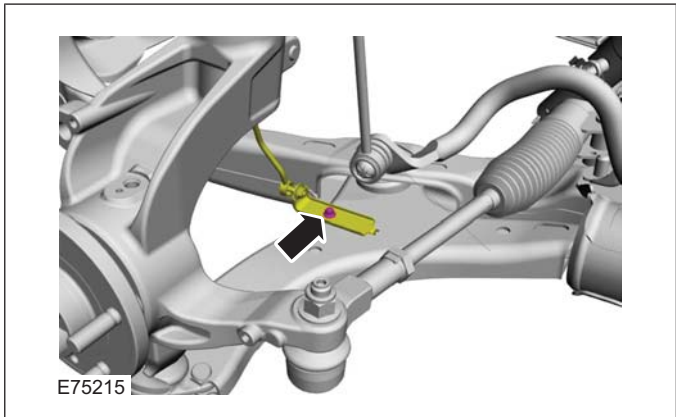
Removal

NOTE: Removal steps in this procedure may contain installation details.

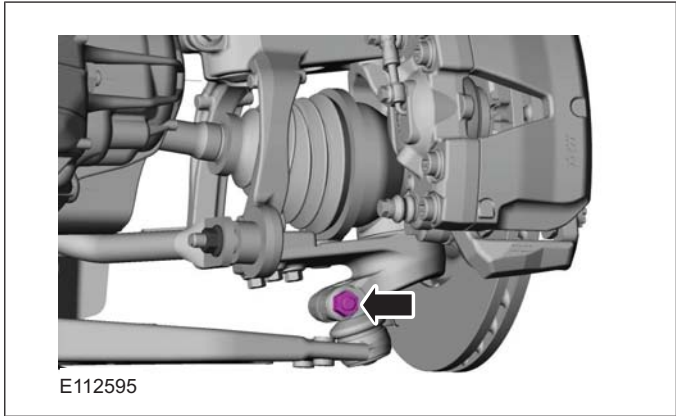
1. Refer to: **Wheel and Tire** (204-04 Wheels and Tires, Removal and Installation).
- 2.



3. If equipped.
Torque: 11 Nm



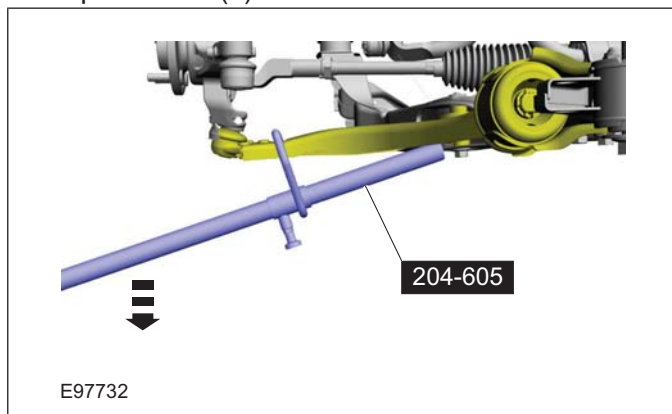
4. On both sides.
Torque: 83 Nm



REMOVAL AND INSTALLATION

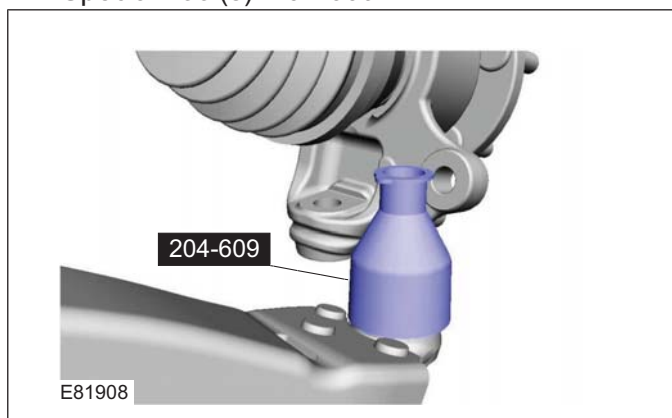
5. On both sides.

Special Tool(s): 204-605

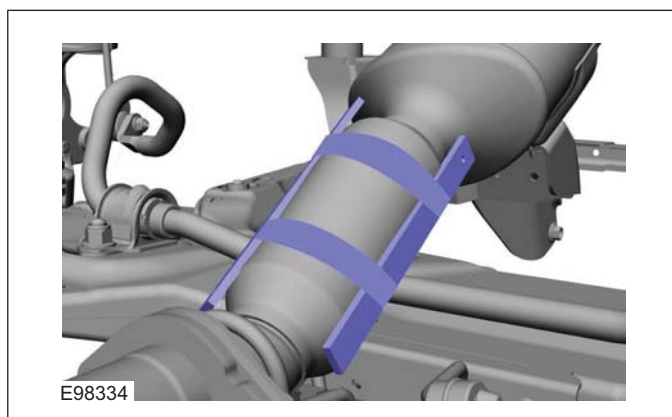


6. On both sides.

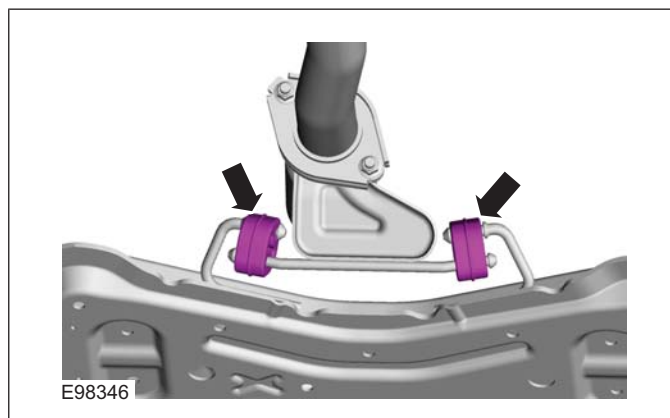
Special Tool(s): 204-609



7. **CAUTION:** Make sure that the exhaust flexible pipe is not forcibly bent.

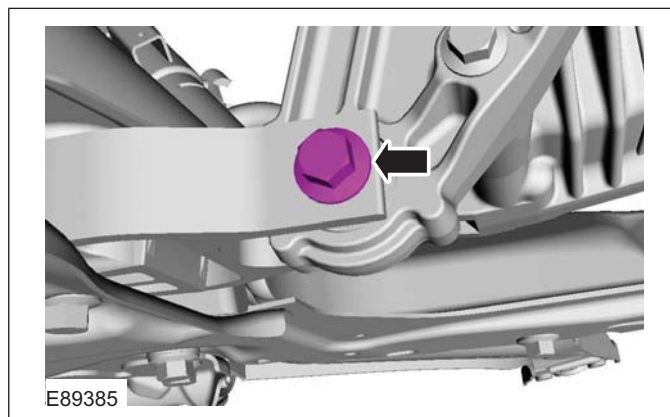


8.



9. 1. Torque:

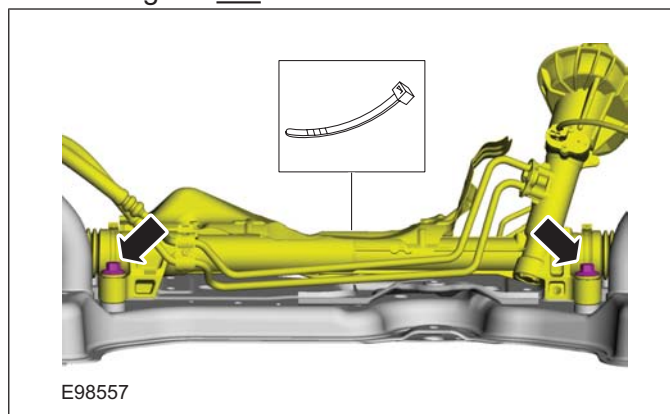
- Stage 1: 35 Nm
- Stage 2: Loosen: 360°
- Stage 3: 85 Nm



10. General Equipment: Cable Ties

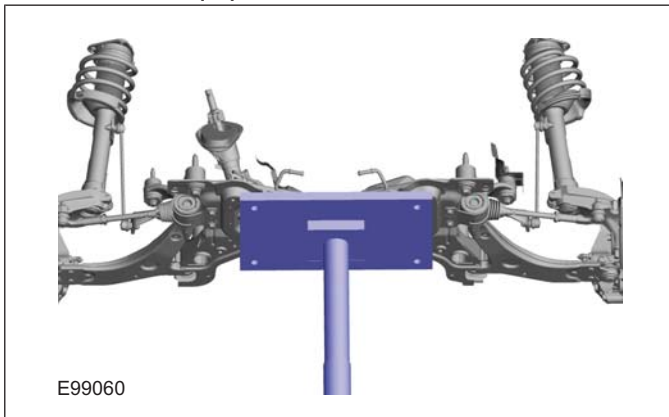
Torque:

- Stage 1: 40 Nm
- Stage 2: 60°



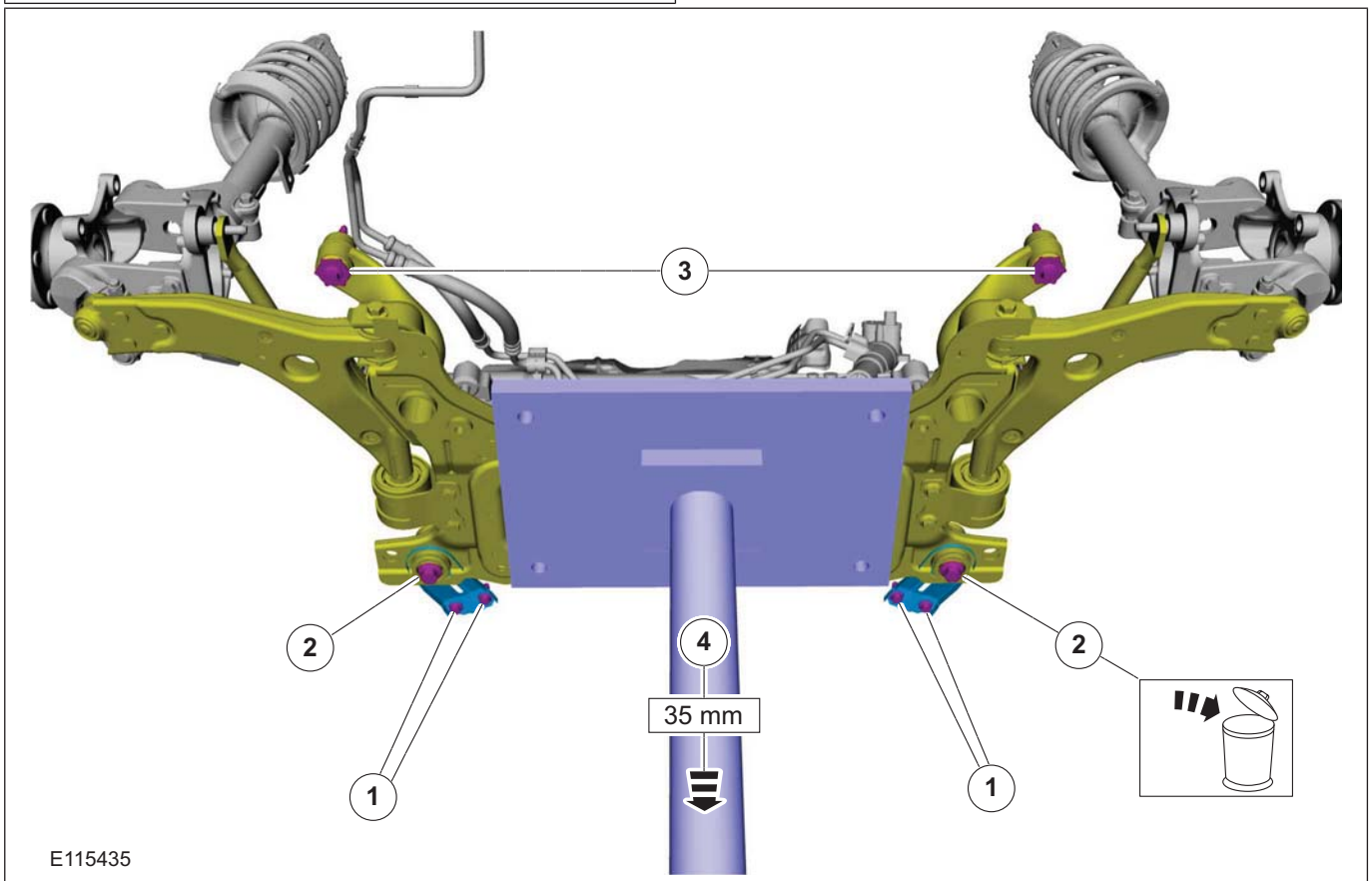
REMOVAL AND INSTALLATION

11. General Equipment: Transmission Jack



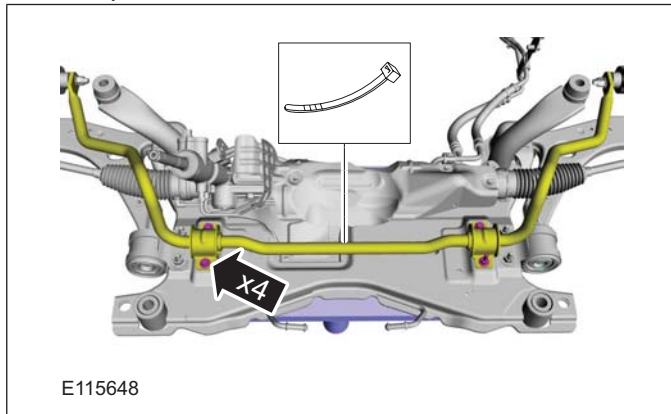
12 Remove the following items:

1. Torque: 70 Nm
2. Torque:
 - Stage 1: 140 Nm
 - Stage 2: 180°
3. Torque: 125 Nm



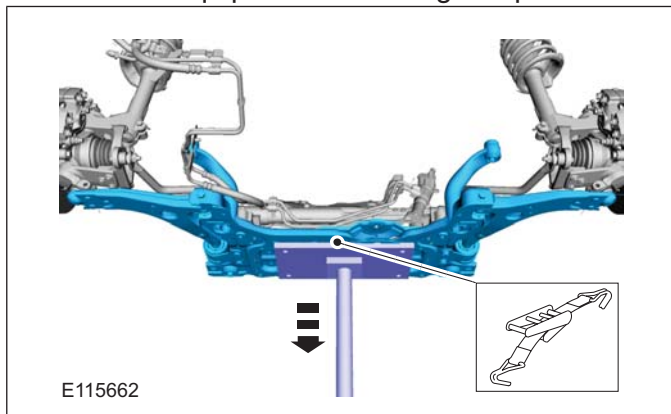
REMOVAL AND INSTALLATION

13. General Equipment: Cable Ties
Torque: 48 Nm



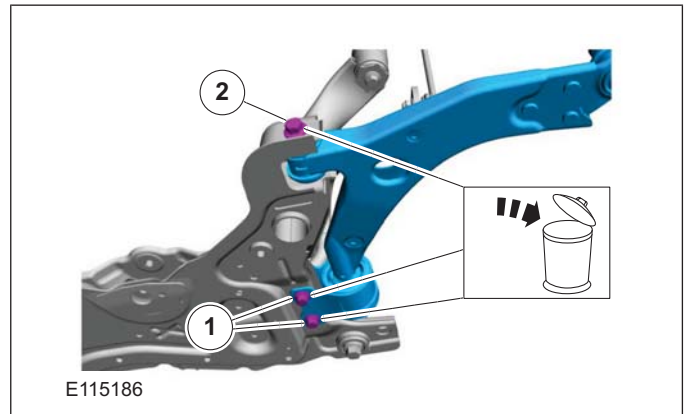
14. **CAUTION:** Make sure that the wiring harness does not catch.

General Equipment: Retaining Strap



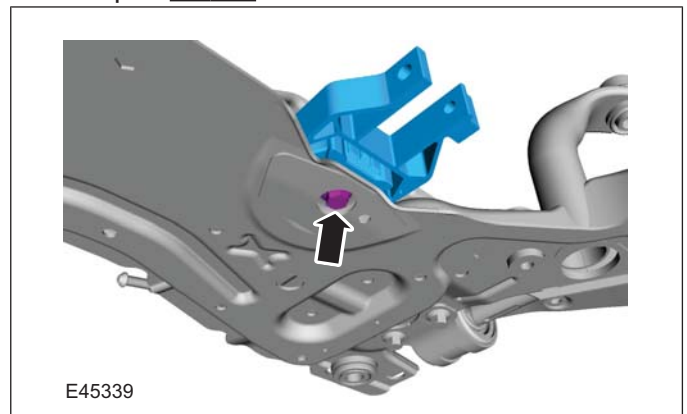
NOTE: This step is only necessary when installing a new component.

15. 1. On both sides.
Torque:
• Stage 1: 100 Nm
• Stage 2: Loosen: 90°
• Stage 3: 125 Nm
2. Torque: 125 Nm



NOTE: This step is only necessary when installing a new component.

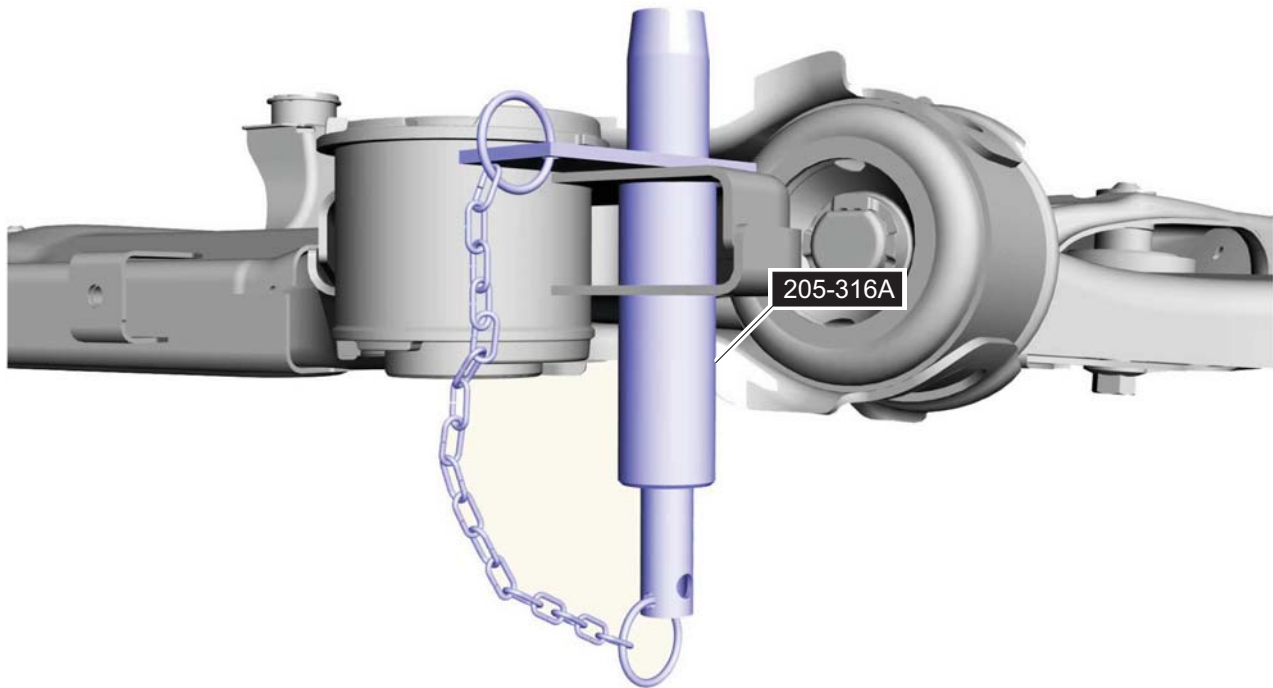
16. Torque: 80 Nm



Installation

1. To install, reverse the removal procedure.
2. Special Tool(s): 205-316A

REMOVAL AND INSTALLATION



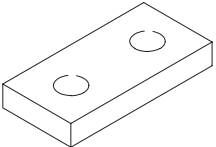
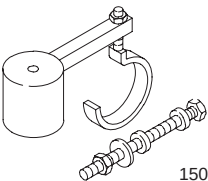
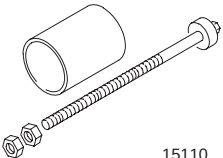
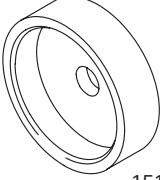
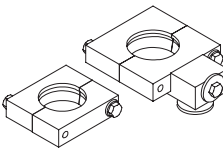
E116296

3. Refer to: **Front Toe Adjustment** (204-00 Suspension System - General Information, General Procedures).

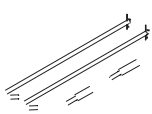
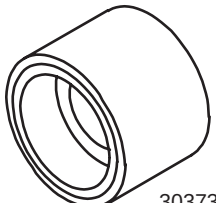
REMOVAL AND INSTALLATION

Front Axle Crossmember Front Bushing

Special Tool(s)

 1500801	Adapter for 205-044 205-044-01
 15086	Remover/Installer, Pivot Bushing 205-297
 15110	Remover/Installer, Pivot Bushing 205-342
 1511002	Adapter for 205-342 205-342-02
 E51254	Remover/Installer, Subframe Bush 205-810 Comprises 205-810-01, 205-810-02

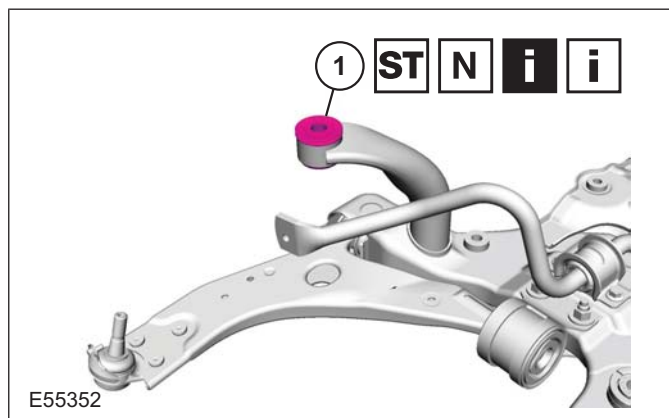
Special Tool(s)

 30329013	Adapter for 303-290A 303-290-13
 303733	Installer, Crankshaft Front Seal 303-733

1. Remove the front axle crossmember.

For additional information, refer to: **Front Axle Crossmember** (502-00 Uni-Body, Subframe and Mounting System, Removal and Installation).

2. Remove the components in the order indicated in the following illustration(s) and table(s).



Item	Description
1	Front axle crossmember front bushing See Removal Detail See Installation Detail

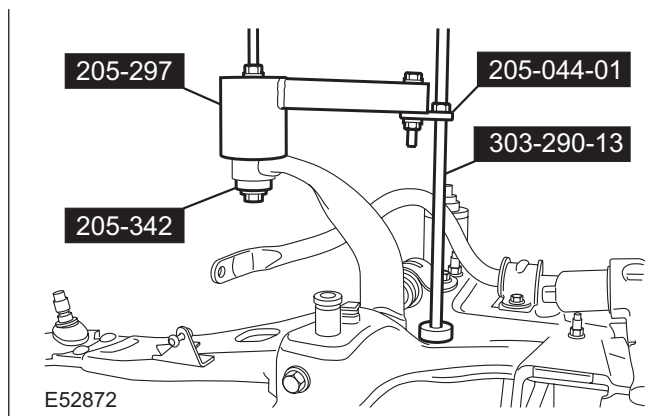
3. To install, reverse the removal procedure.

Removal Details

REMOVAL AND INSTALLATION

Item 1 Front axle crossmember front bushing

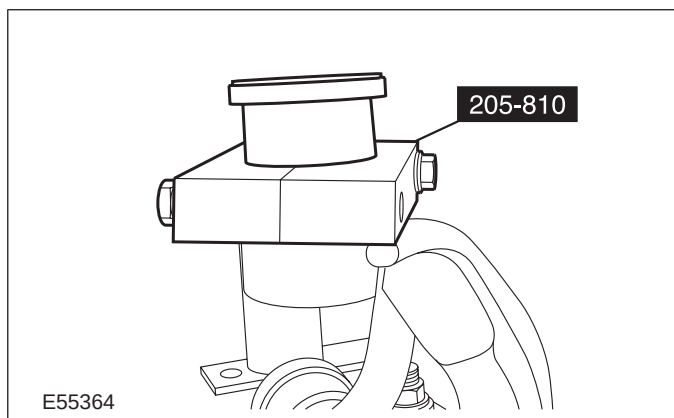
1. Using the special tools, remove the front axle crossmember front bushing.



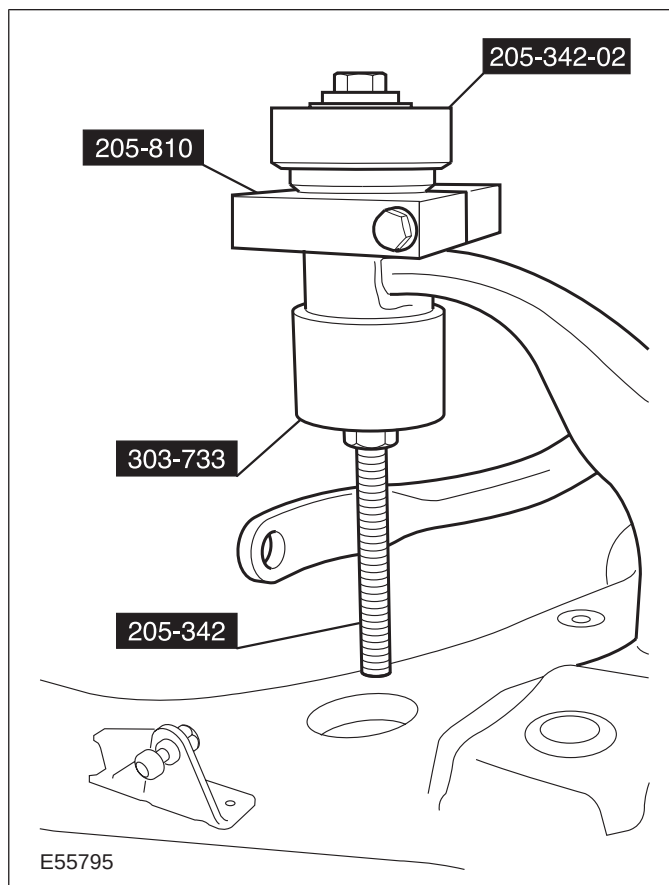
Installation Details

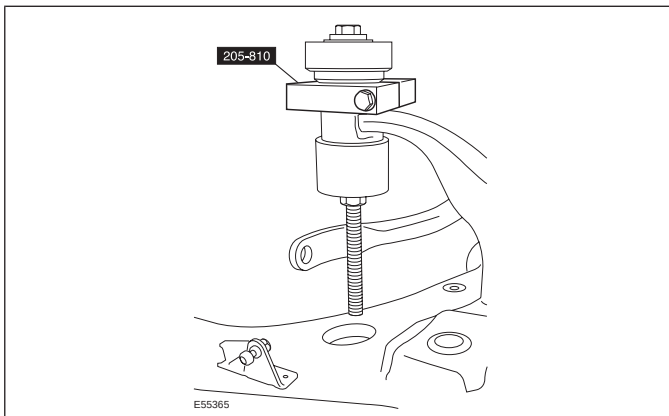
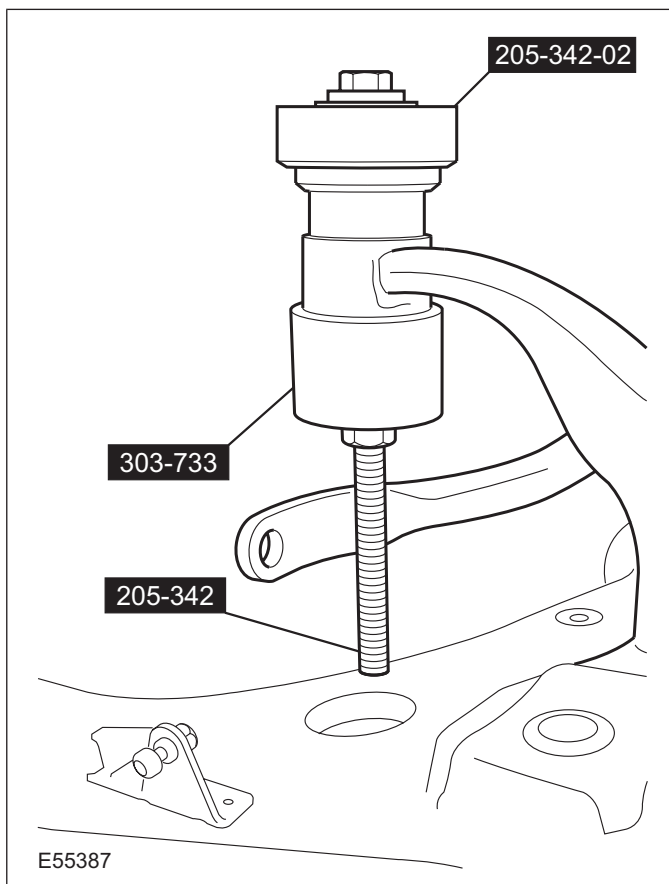
Item 1 Front axle crossmember front bushing

1. Clean the front axle crossmember front bushing housing.
2. Using the special tool, attach the front axle crossmember front bushing to the front axle crossmember.



3. Using the special tools, press the front axle crossmember front bushing in approximately 10 mm.

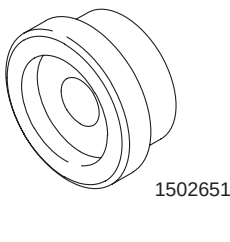
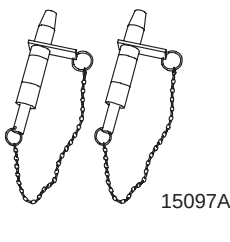
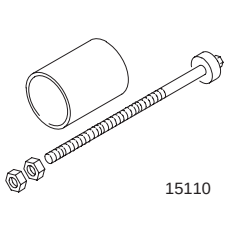
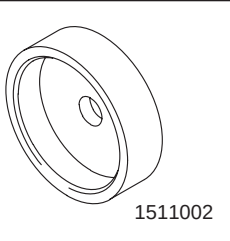
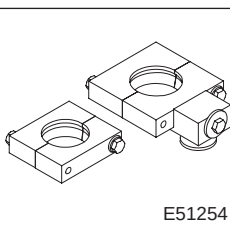


REMOVAL AND INSTALLATION**4. Remove the special tool.****5. Using the special tools, install the front axle crossmember front bushing.****6. Remove the special tools.**

REMOVAL AND INSTALLATION

Front Axle Crossmember Rear Bushing

Special Tool(s)

 1502651	Adapter for 205-071 (Thrust Pad) 205-071-02
 15097A	Alignment Pins, Subframe 205-316 (15-097A)
 15110	Remover/Installer, Pivot Bushing 205-342
 1511002	Adapter for 205-342 205-342-02
 E51254	Remover/Installer, Subframe Bush 205-810 Comprises 205-810-01, 205-810-02

General Equipment

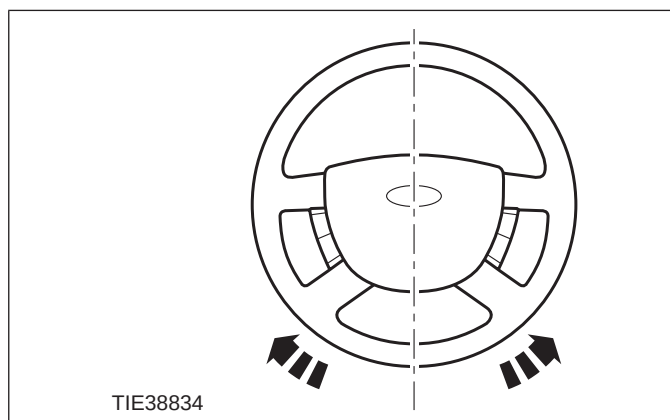
Transmission jack

Securing strap

All vehicles

- NOTE:** Make sure that the road wheels are in the straight ahead position.

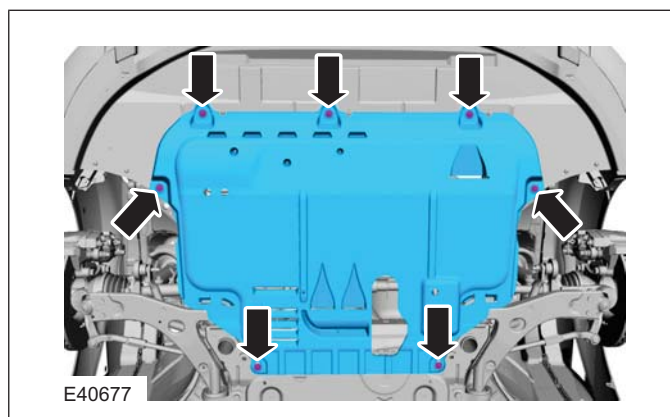
Centralize the steering wheel and lock it in position.



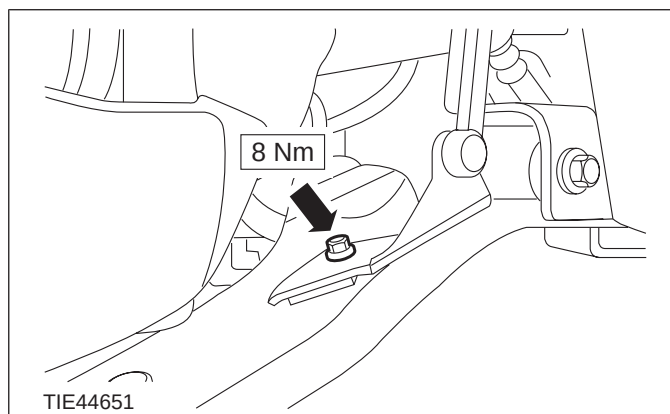
- Remove the front wheels and tires.

For additional information, refer to: **Wheel and Tire** (204-04 Wheels and Tires, Removal and Installation).

- Remove the engine undershield.



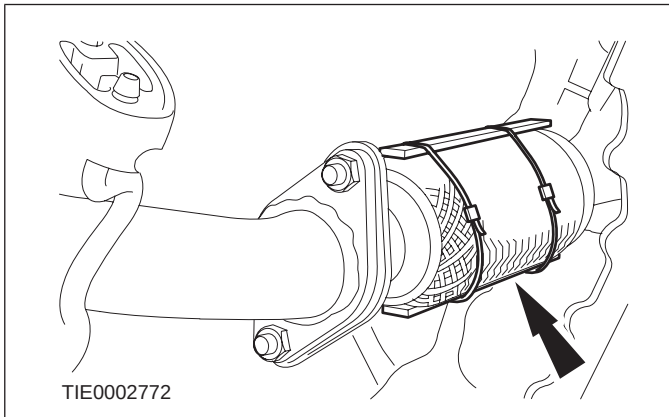
- Detach the headlamp leveling front sensor bracket from the right-hand lower arm and secure it to one side (if equipped).



REMOVAL AND INSTALLATION

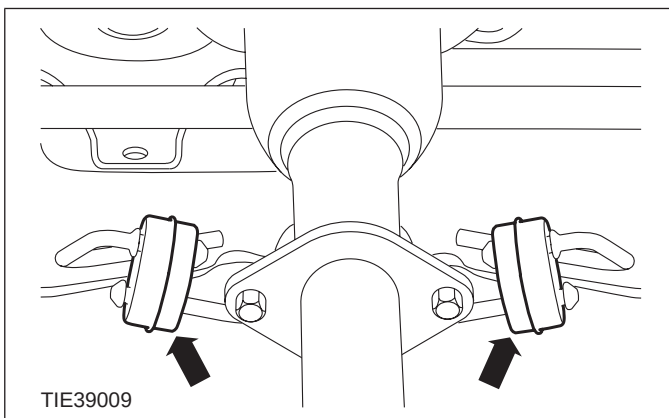
5. **⚠ CAUTION:** Over bending of the exhaust flexible pipe may cause damage resulting in failure.

Support the exhaust flexible pipe with a suitable support wrap or a suitable splint.



6. **⚠ CAUTION:** Take care when removing the exhaust hanger insulators to prevent damage.

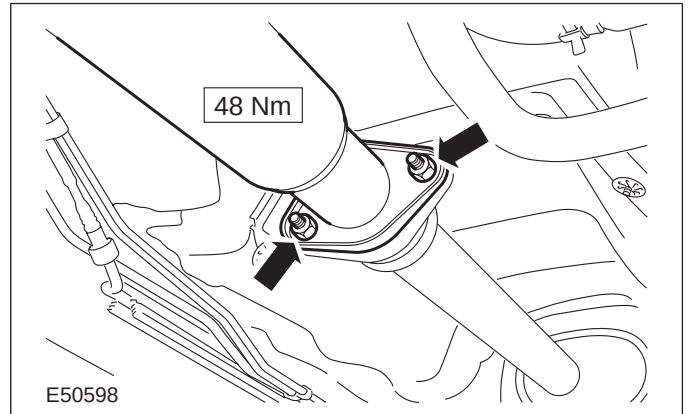
Detach the exhaust flexible pipe from the exhaust hanger insulators.



All except vehicles with diesel engine

7. Detach the catalytic converter from the muffler and tailpipe assembly.

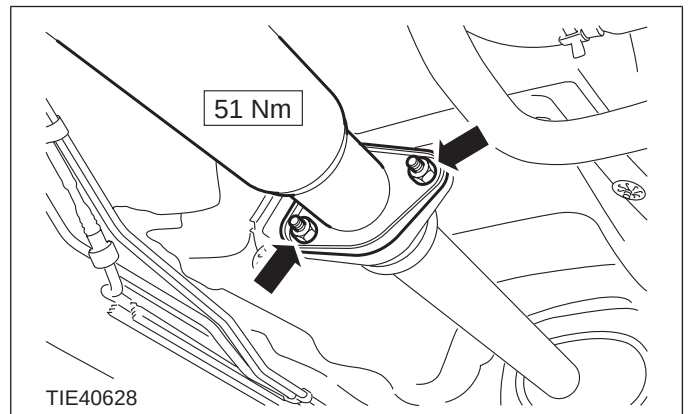
- Discard the catalytic converter to muffler and tailpipe assembly gasket and nuts.



Vehicles with diesel engine

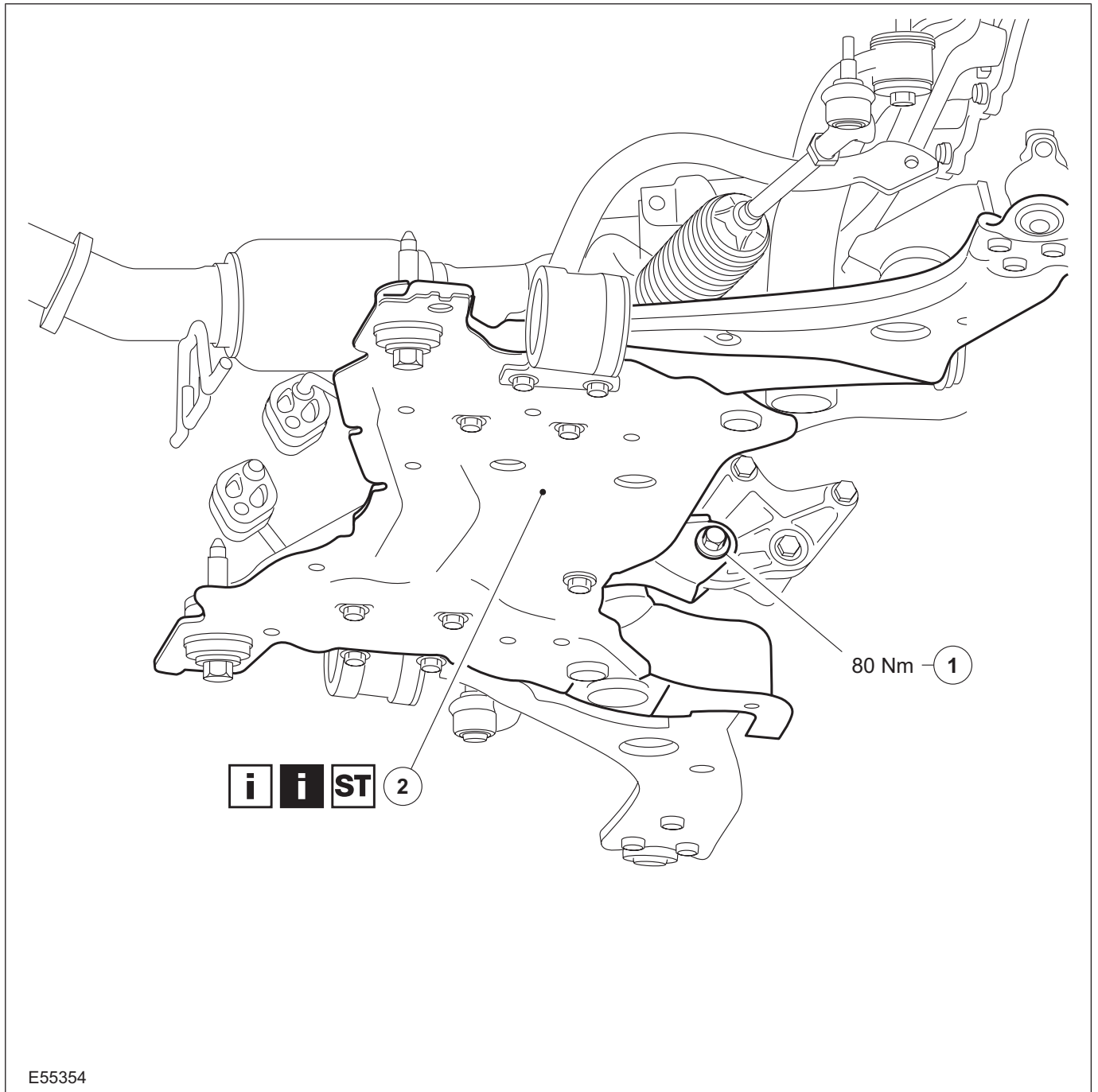
8. Detach the catalytic converter from the muffler and tailpipe assembly.

- Discard the catalytic converter to muffler and tailpipe assembly sealing ring and nuts.



9. Remove the components in the order indicated in the following illustration(s) and table(s).

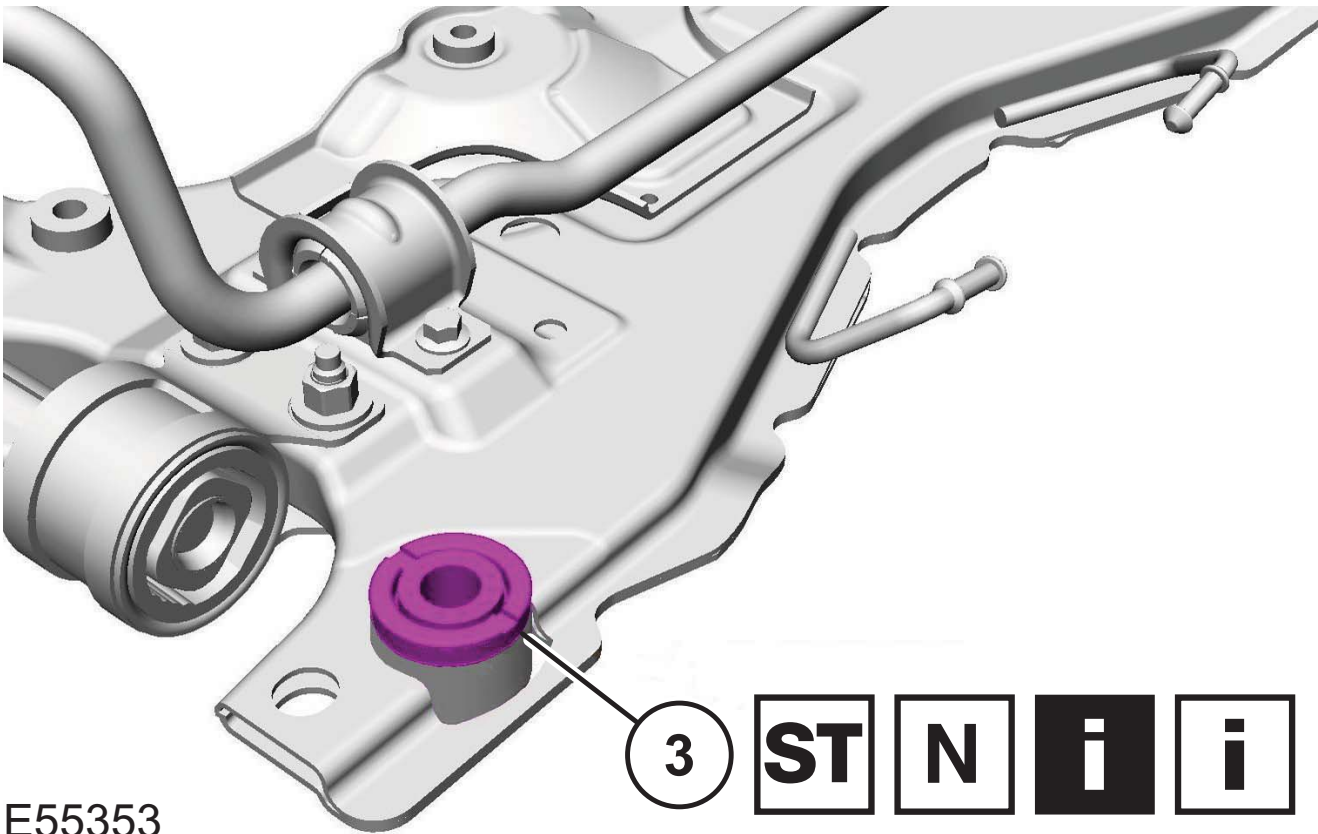
REMOVAL AND INSTALLATION



E55354

Item	Description
1	Engine support insulator front retaining bolt
2	Front axle crossmember See Removal Detail See Installation Detail

REMOVAL AND INSTALLATION



E55353

Item	Description
3	Front axle crossmember rear bushing See Removal Detail See Installation Detail

10. To install, reverse the removal procedure.

11. Check the toe setting and adjust as necessary. For additional information, refer to: (204-00 Suspension System - General Information)

Specifications (Specifications),
Front Toe Adjustment (General Procedures).

Removal Details

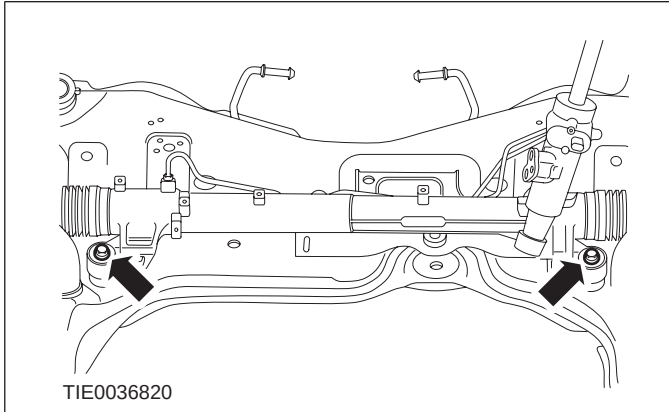
REMOVAL AND INSTALLATION

Item 2 Front axle crossmember

NOTE: The front axle crossmember is lowered to gain access to the front axle crossmember rear bushings.

1. Detach the steering gear from the front axle crossmember.

- Using cable ties, support the steering gear.

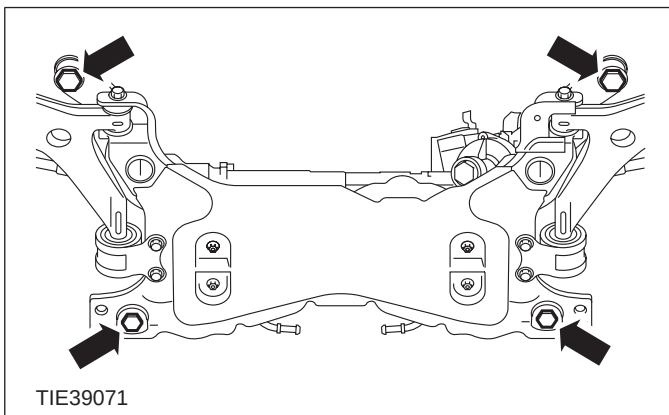


2. Using a transmission jack and a wooden block, support the front axle crossmember, stabilizer bar and lower arm assembly.

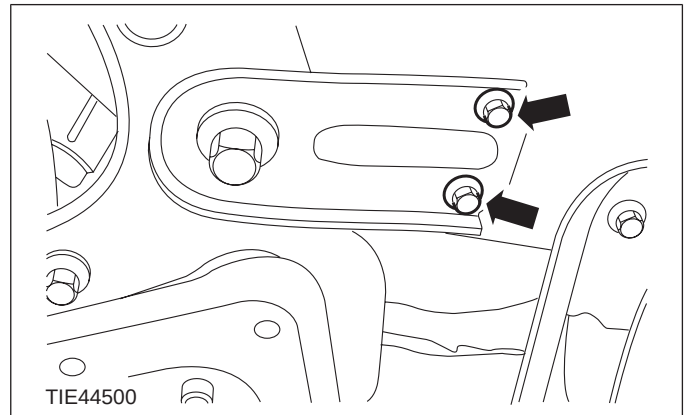
3. ⚠️ WARNING: Make sure that the front axle crossmember is secured to the transmission jack. Failure to follow this instruction may result in personal injury.

Using a suitable securing strap, secure the front axle crossmember, stabilizer bar and lower arm assembly to the transmission jack.

4. Remove the front axle crossmember retaining bolts (transmission jack shown removed for clarity).



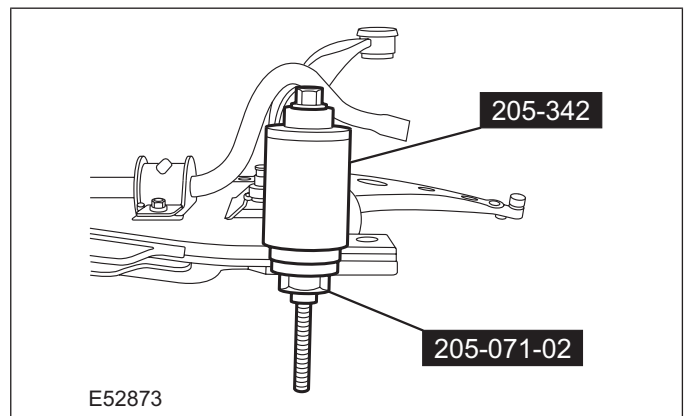
5. Remove the front axle crossmember bracket retaining bolts on both sides.



6. Lower the front axle crossmember, stabilizer bar and lower arm assembly to gain access to the front axle crossmember rear bushings.

Item 3 Front axle crossmember rear bushing

1. Using the special tools, remove the front axle crossmember rear bushing.

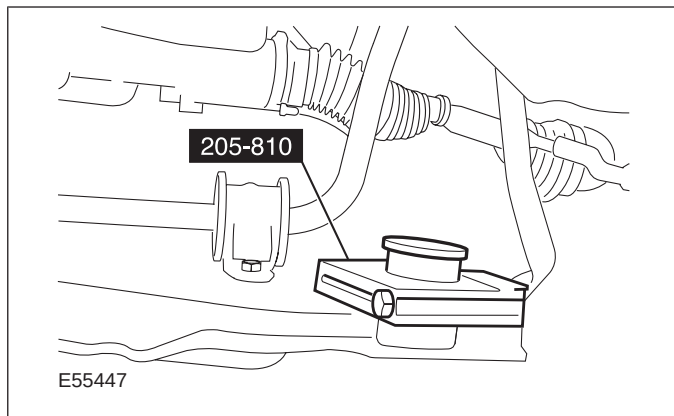


Installation Details

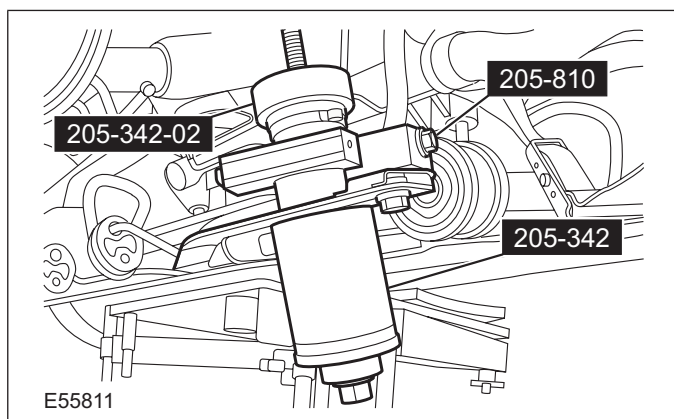
REMOVAL AND INSTALLATION

Item 3 Front axle crossmember rear bushing

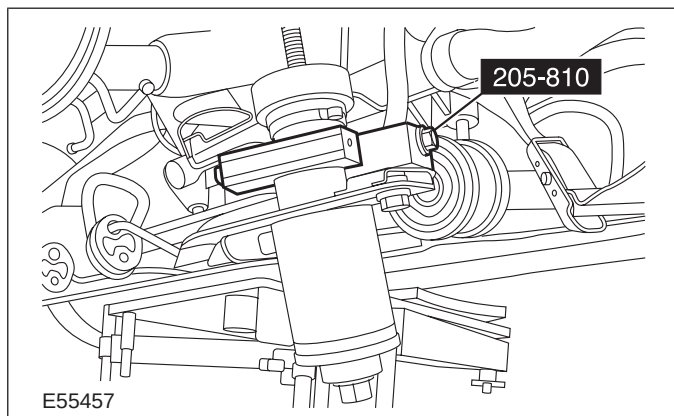
1. Clean the front axle crossmember rear bushing housing.
2. Using the special tool, attach the front axle crossmember rear bushing to the front axle crossmember.



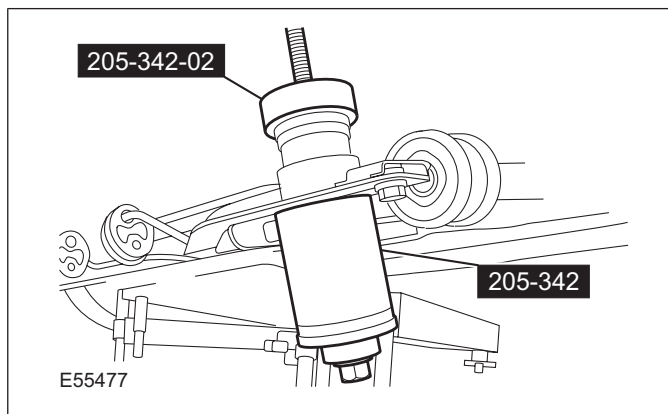
3. Using the special tools, press the front axle crossmember rear bushing in approximately 10 mm.



4. Remove the special tool.



5. Using the special tools, install the front axle crossmember rear bushing.

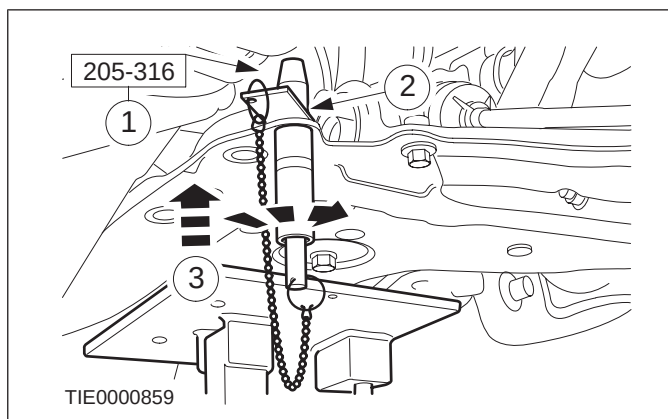


6. Remove the special tools.

Item 2 Front axle crossmember

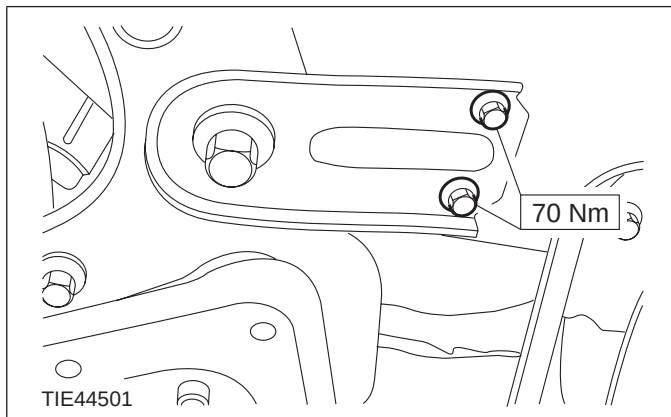
1. Using the transmission jack and the special tool, position and align the front axle crossmember.

1. Insert the special tool through the front axle crossmember alignment holes.
2. Slide the locking plates into the groove of the special tool and tighten the special tool sleeve.
3. Raise the front axle crossmember engaging the special tool into the chassis alignment holes.

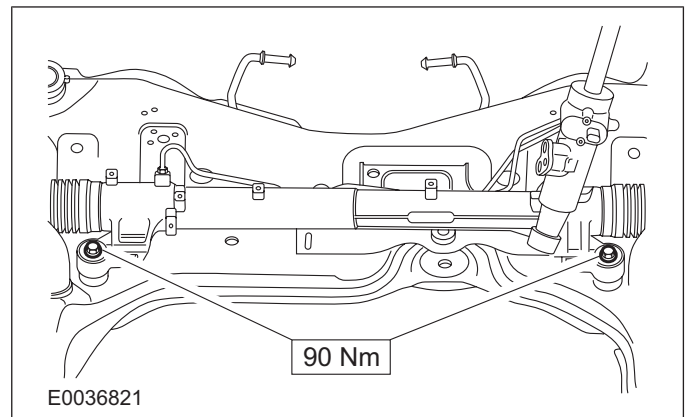


REMOVAL AND INSTALLATION

2. Install the front axle crossmember bracket retaining bolts on both sides.

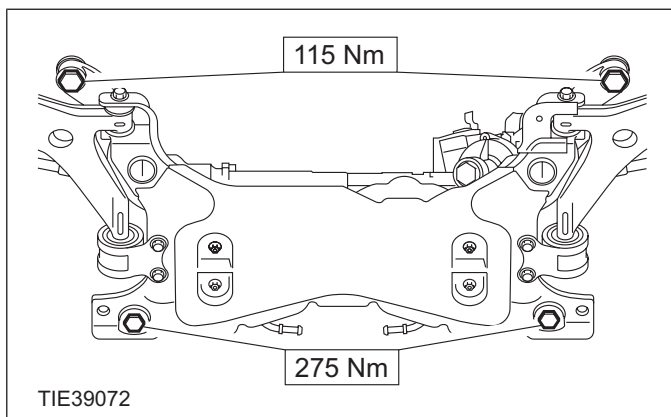


- Remove the cable ties.



3. **CAUTION:** Make sure that the front axle crossmember does not move while tightening the front axle crossmember retaining bolts.

Install the front axle crossmember retaining bolts (transmission jack shown removed for clarity).



4. Remove the special tool.
5. Remove the securing strap.
6. Lower and remove the transmission jack and the wooden block.
7. Attach the steering gear to the front axle crossmember.

REMOVAL AND INSTALLATION

Rear Axle Crossmember — Vehicles With: Solid Stabilizer Bar Link, Vehicles Without: Fuel Additive Tank

General Equipment

Securing strap

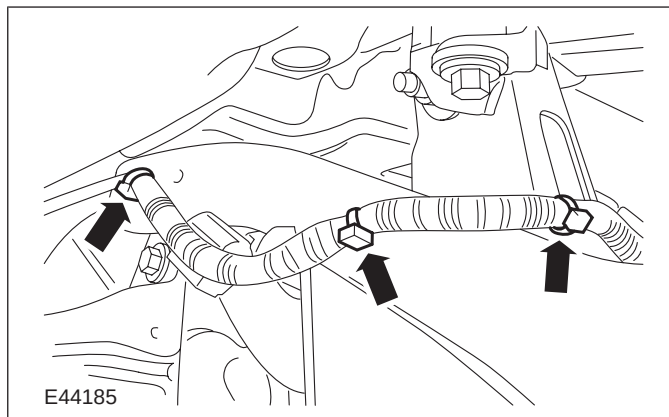
Transmission jacks

1. Remove the spring on both sides.
2. Remove the evaporative emission canister (if equipped).
3. Remove the headlamp leveling rear sensor (if equipped).

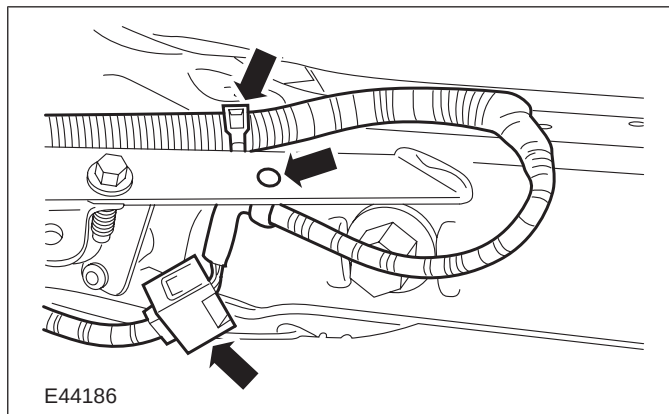
For additional information, refer to:

Headlamp Leveling Rear Sensor (417-01 Exterior Lighting, Removal and Installation).

4. Detach the headlamp leveling sensor wiring harness from the rear axle crossmember (if equipped).

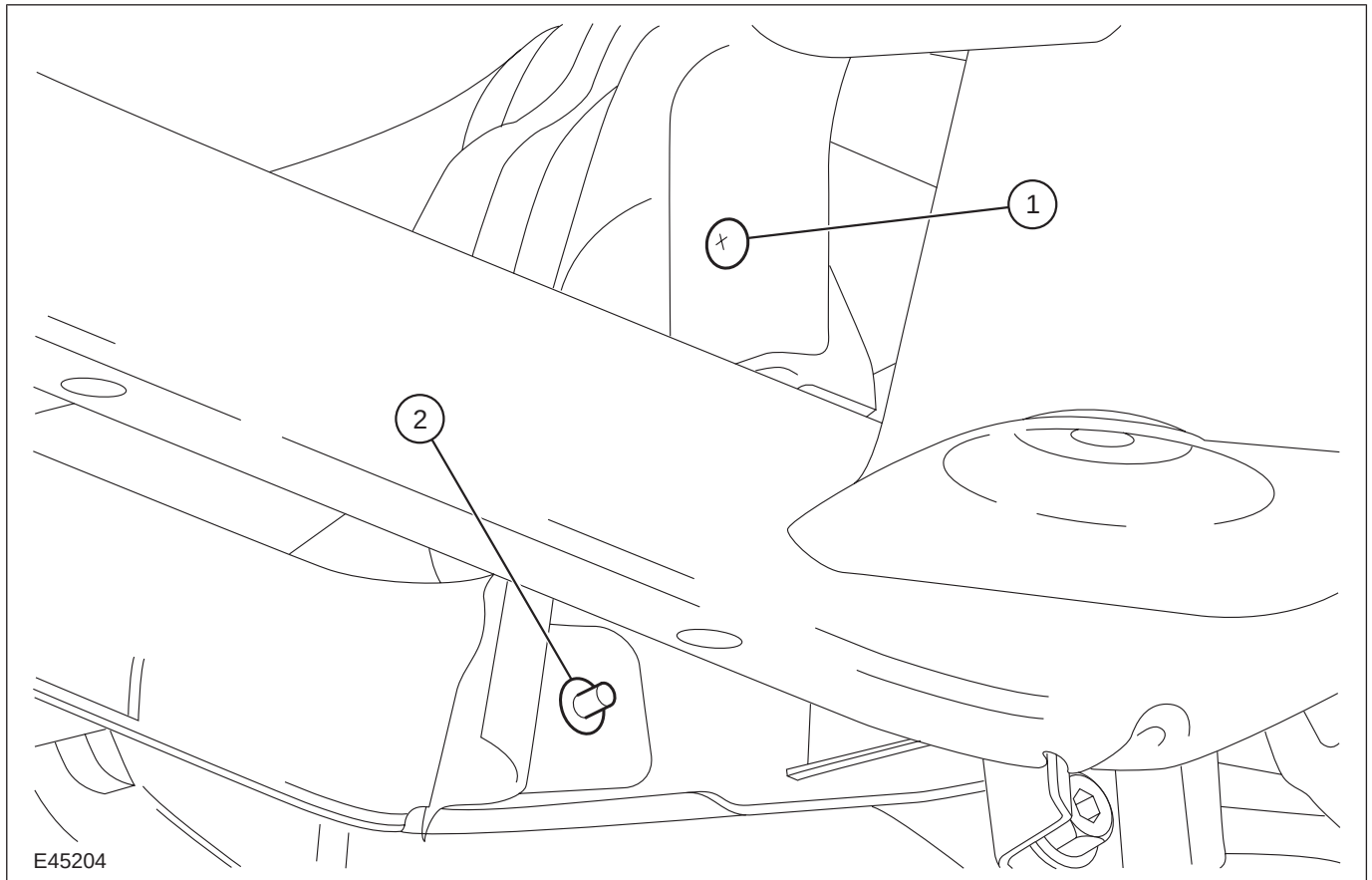


5. Detach the headlamp leveling sensor wiring harness from the rear axle crossmember and disconnect the electrical connector (if equipped).



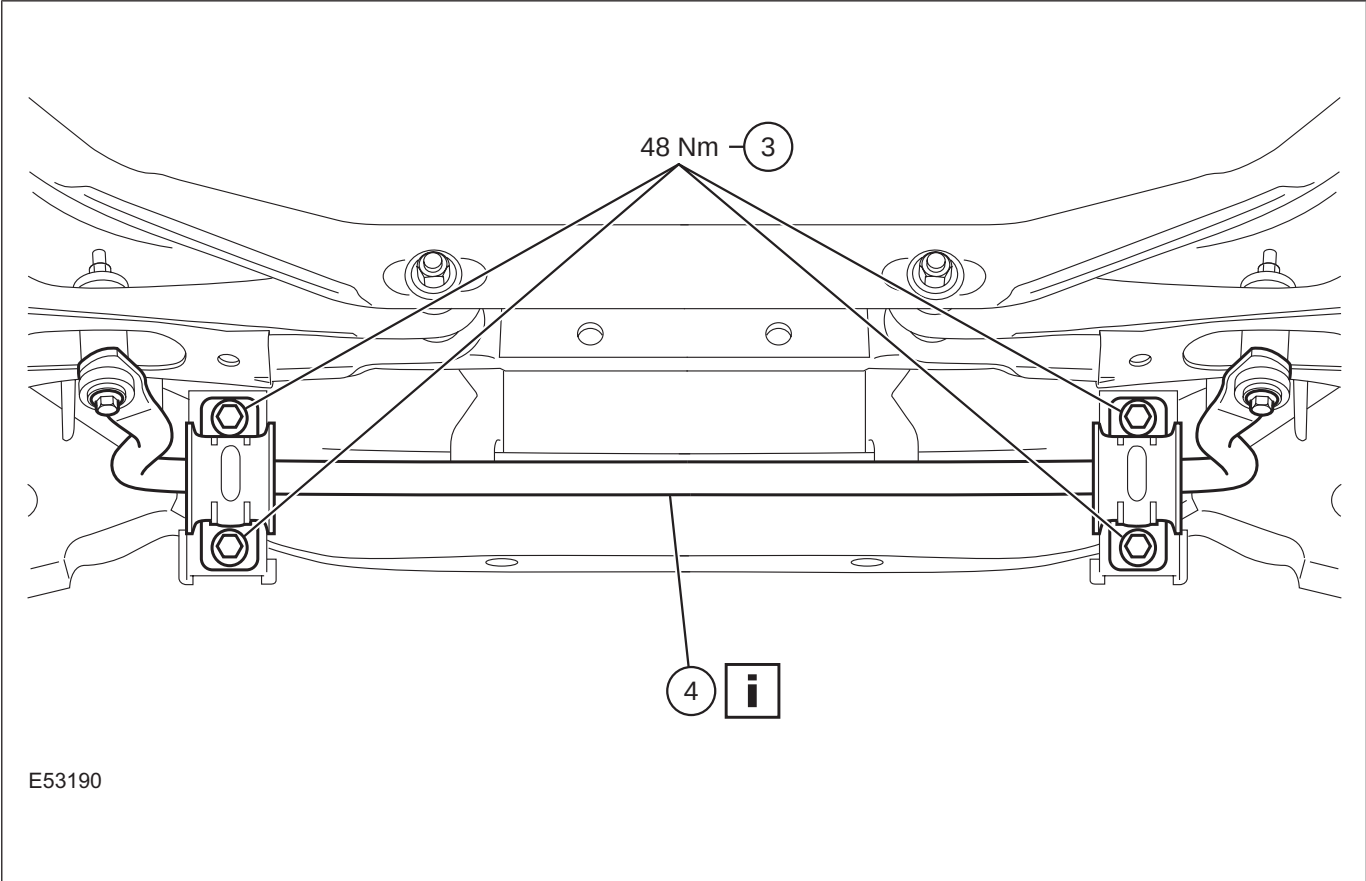
6. Remove the components in the order indicated in the following illustration(s) and table(s).

REMOVAL AND INSTALLATION



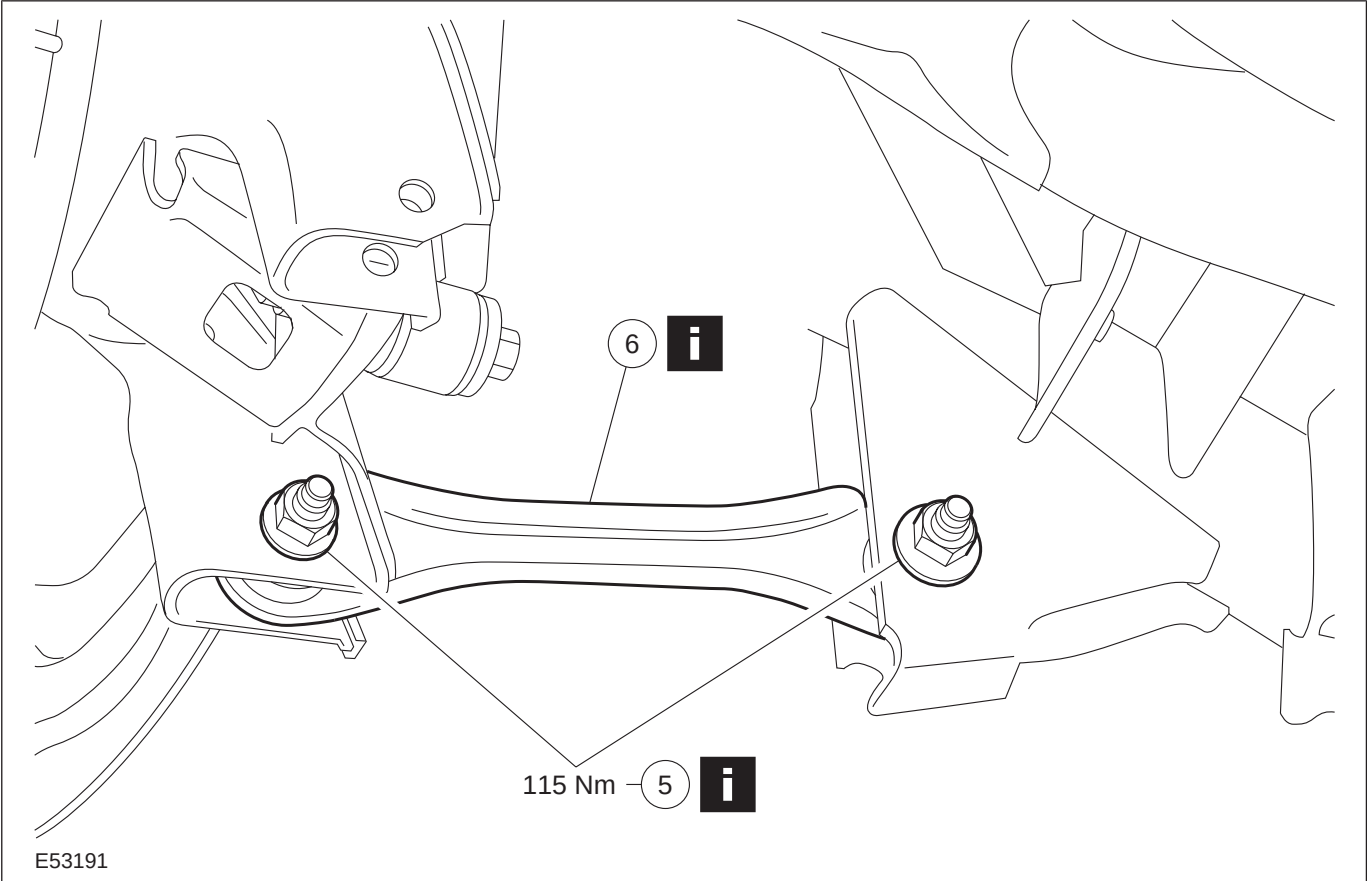
Item	Description
1	Evaporative emission canister heat shield to rear axle crossmember stud (if equipped)
2	Evaporative emission canister heat shield to rear axle crossmember retaining bolt (if equipped)

REMOVAL AND INSTALLATION



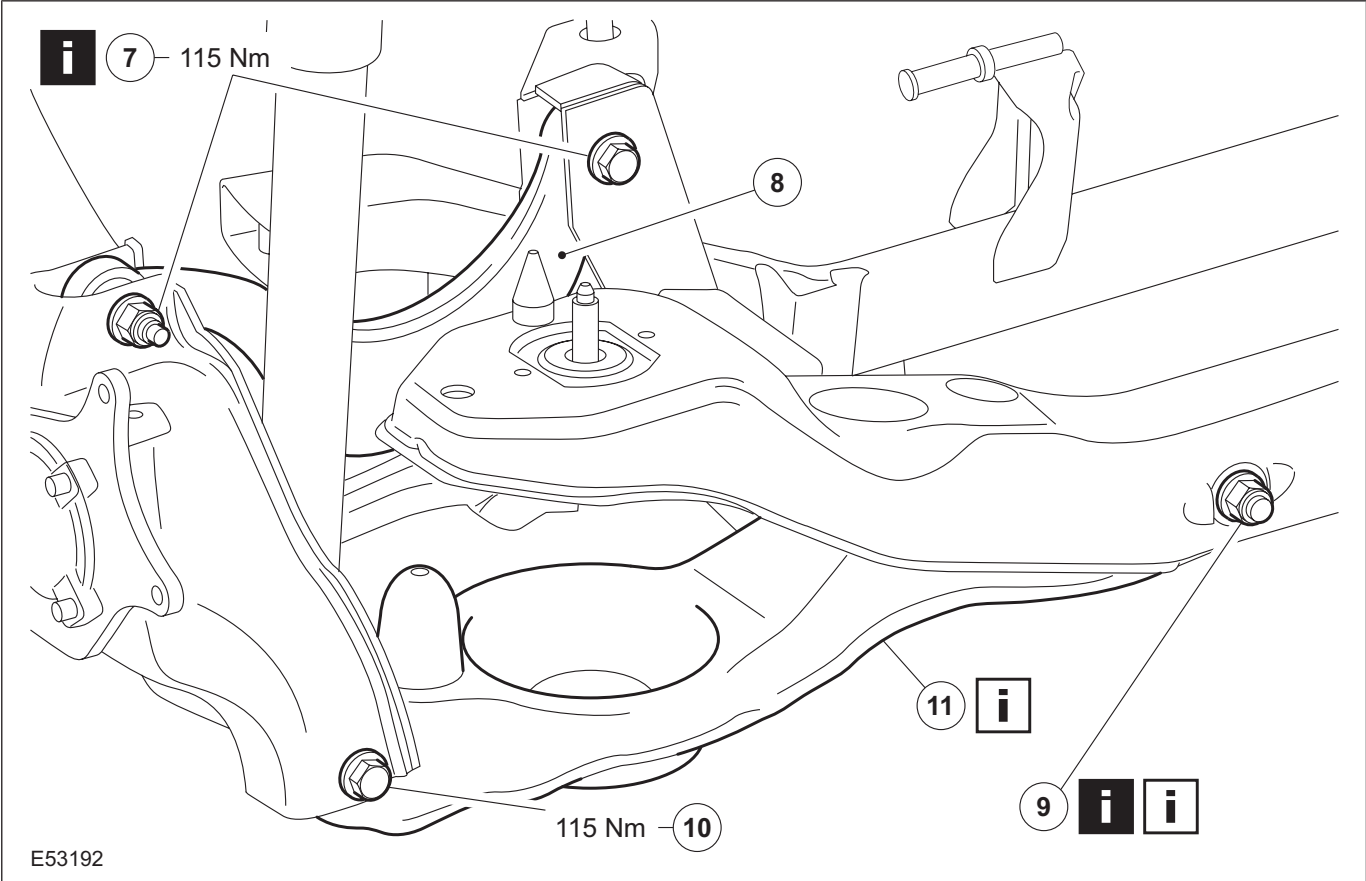
Item	Description
3	Stabilizer bar clamp retaining bolts
4	Stabilizer bar See Installation Detail

REMOVAL AND INSTALLATION



Item	Description
5	Front lower arm retaining bolts See Removal Detail
6	Front lower arm See Removal Detail

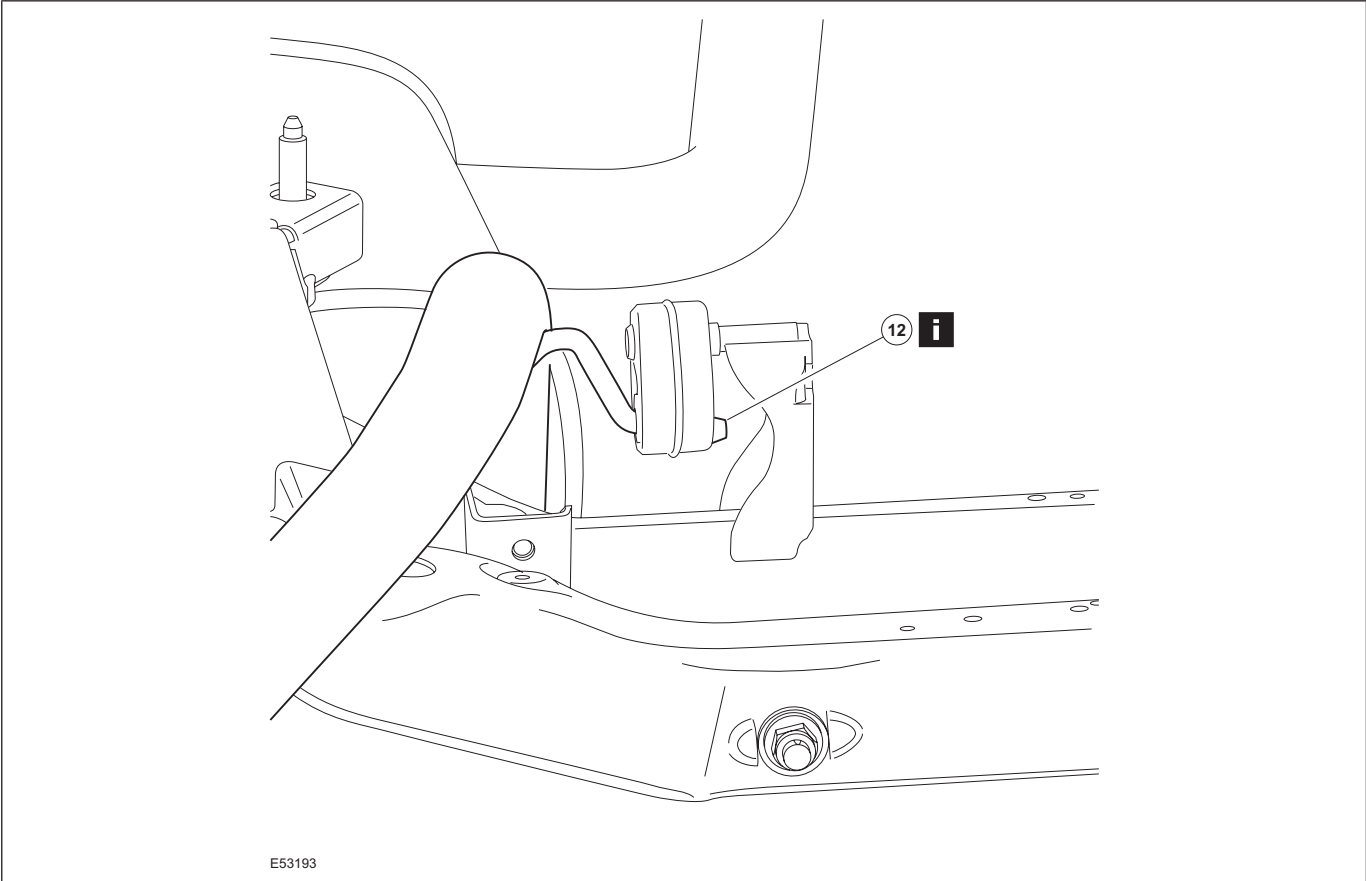
REMOVAL AND INSTALLATION



Item	Description
7	Upper arm retaining bolts See Removal Detail
8	Upper arm
9	Rear lower arm adjustment cam nut See Removal Detail See Installation Detail

Item	Description
10	Rear lower arm to wheel knuckle retaining bolt
11	Rear lower arm See Installation Detail

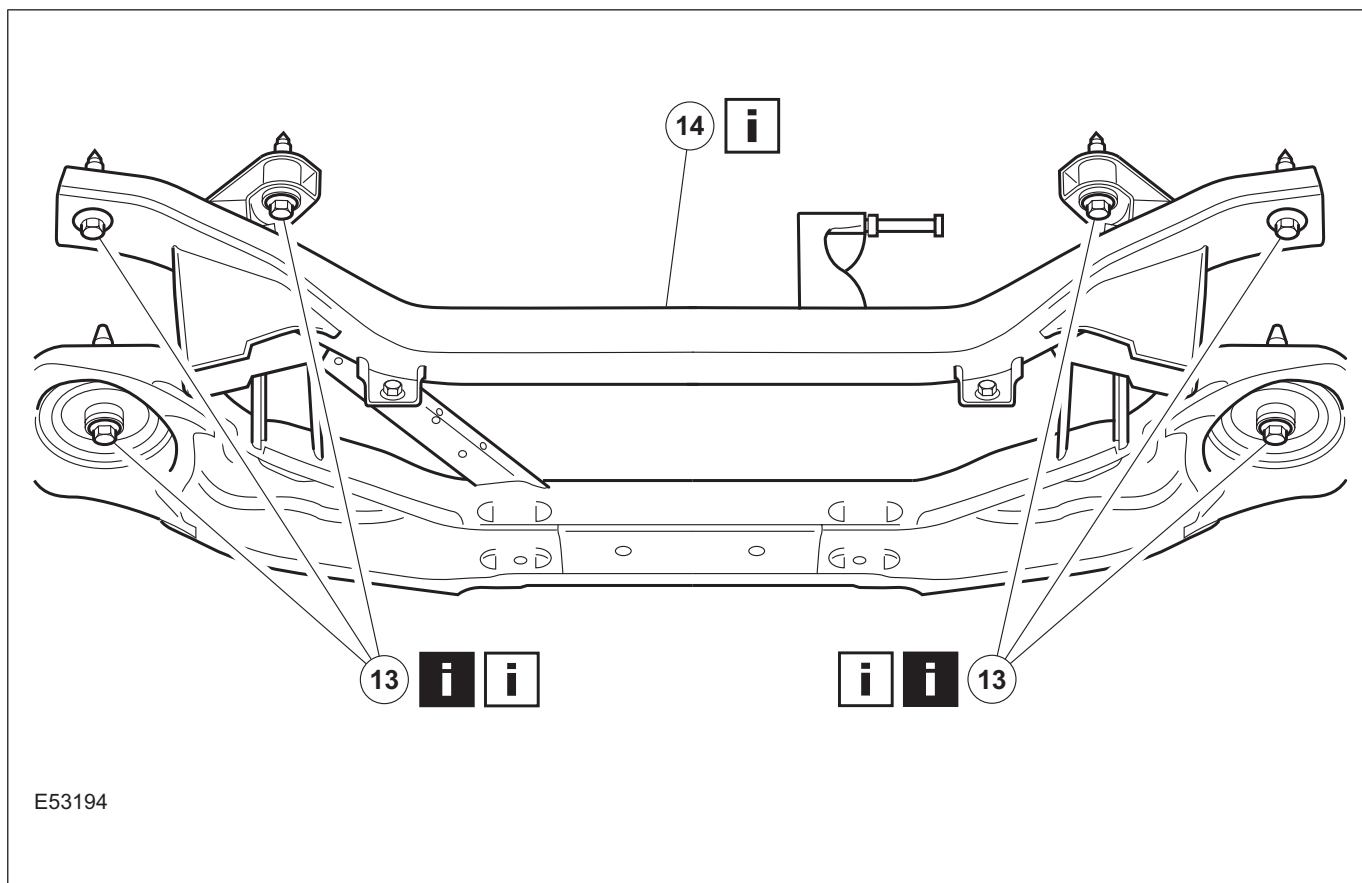
REMOVAL AND INSTALLATION



Item	Description
12	Exhaust hanger insulator See Removal Detail

cardiagn.com

REMOVAL AND INSTALLATION



Item	Description
13	Rear axle crossmember retaining bolts See Removal Detail See Installation Detail
14	Rear axle crossmember See Installation Detail

7. To install, reverse the removal procedure.

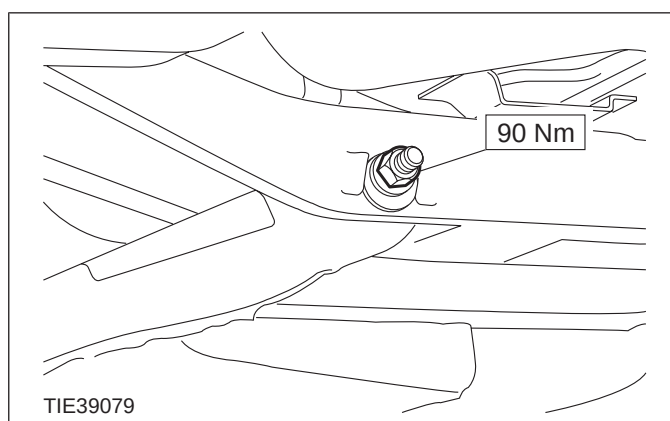
8. Check the toe setting and adjust as necessary. For additional information, refer to: (204-00 Suspension System - General Information)

Specifications (Specifications),
Rear Toe Adjustment (General Procedures).

9. **NOTE:** Final tightening of the rear lower arm adjustment cam nut must be carried out

when the vehicle weight is on the road wheels.

Tighten the rear lower arm adjustment cam nut on both sides.

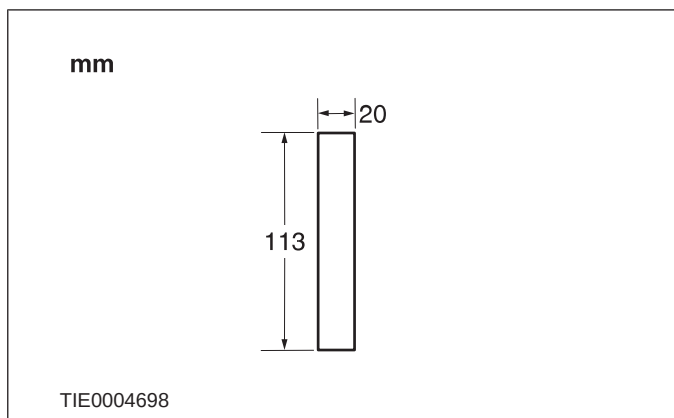


Removal Details

REMOVAL AND INSTALLATION

Item 5 Front lower arm retaining bolts

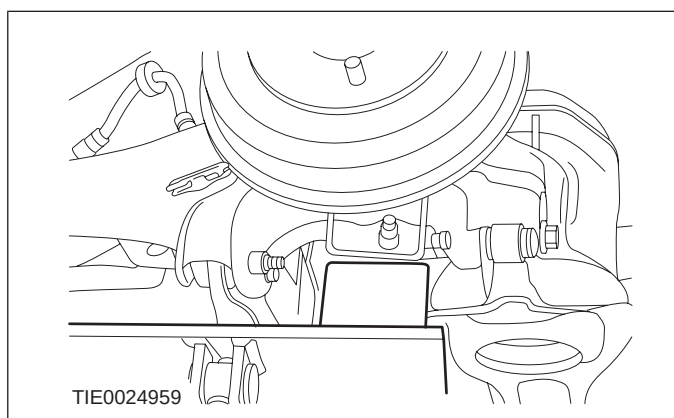
1. Fabricate two 20 mm wide by 113 mm long spacers.



2. **CAUTION:** Both sides of the suspension must be set to the design height setting.

Using two transmission jacks and wooden blocks, raise the suspension to the design height setting on both sides.

- Position the transmission jack and the wooden block as shown.

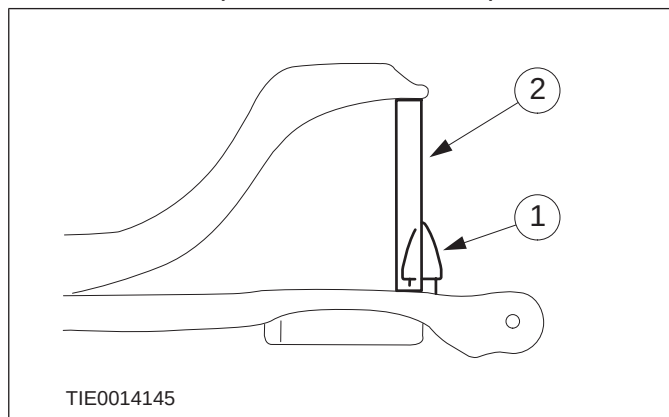


3. **NOTE:** The spacer must be positioned exactly as shown.

Install the spacer on both sides.

1. Remove the bump stop.

2. Install the spacer between the rear lower arm and the rear axle crossmember making sure that the spacer is in a vertical plane.

**Item 6 Front lower arm**

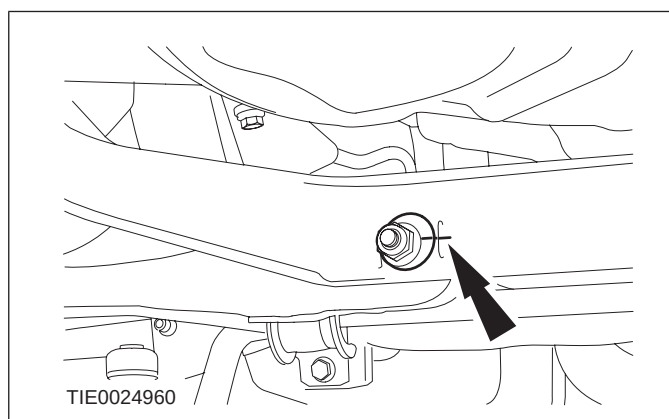
- CAUTION:** The front lower arms are marked **FRONT**. Make a note of the position of the front lower arms to aid installation.

Item 7 Upper arm retaining bolts

NOTE: Make a note of the position of the upper arms to aid installation.

Item 9 Rear lower arm adjustment cam nut

1. Mark the position of the rear lower arm adjustment cam to the rear axle crossmember on both sides.

**Item 12 Exhaust hanger insulator**

NOTE: Support the exhaust muffler and tailpipe assembly.

Item 13 Rear axle crossmember retaining bolts

1. Using a transmission jack, support the rear axle crossmember.

REMOVAL AND INSTALLATION

2. **⚠ WARNING:** Make sure that the rear axle crossmember is secured to the transmission

jack. Failure to follow this instruction may result in personal injury.

Using a securing strap, secure the rear axle crossmember to the transmission jack.

Installation Details

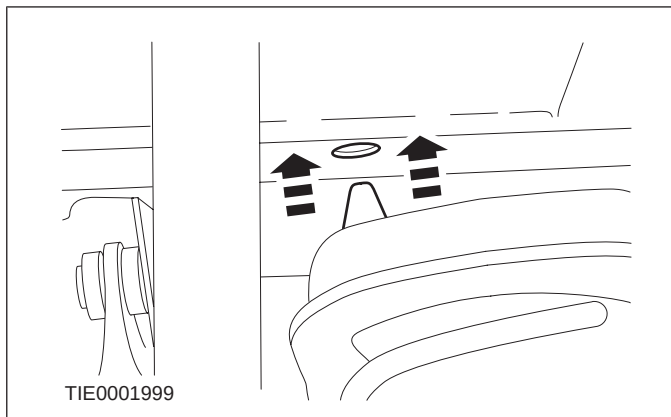
Item 14 Rear axle crossmember

1. Using a transmission jack, support the rear axle crossmember.

2. **⚠ WARNING:** Make sure that the rear axle crossmember is secured to the transmission jack. Failure to follow this instruction may result in personal injury.

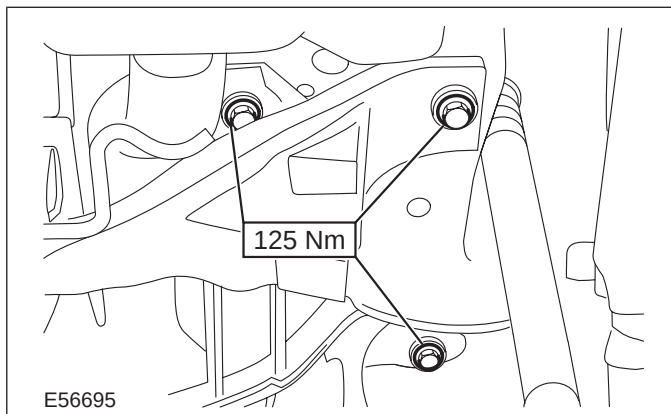
Using a securing strap, secure the rear axle crossmember to the transmission jack.

3. Locate the rear axle crossmember.



Item 13 Rear axle crossmember retaining bolts

1. Install the rear axle crossmember retaining bolts on both sides.



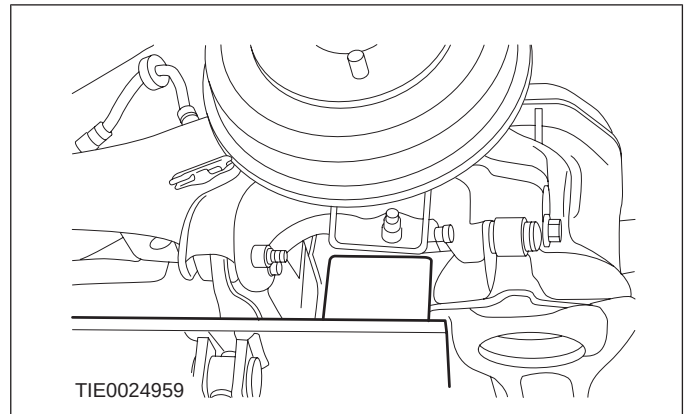
2. Remove the securing strap.
3. Lower and remove the transmission jack.

Item 11 Rear lower arm

1. **⚠ CAUTION:** Both sides of the suspension must be set to the design height setting.

Using two transmission jacks and wooden blocks, raise the suspension to the design height setting on both sides.

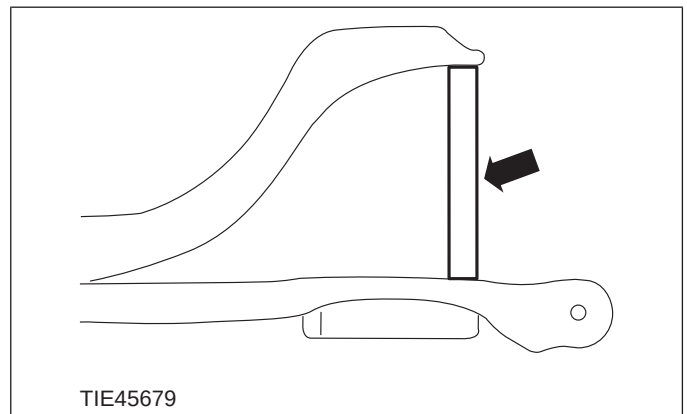
- Position the transmission jack and the wooden block as shown.



2. **NOTE:** The spacer must be positioned exactly as shown.

Install the spacer on both sides.

- Install the spacer between the rear lower arm and the rear axle crossmember making sure that the spacer is in a vertical plane.

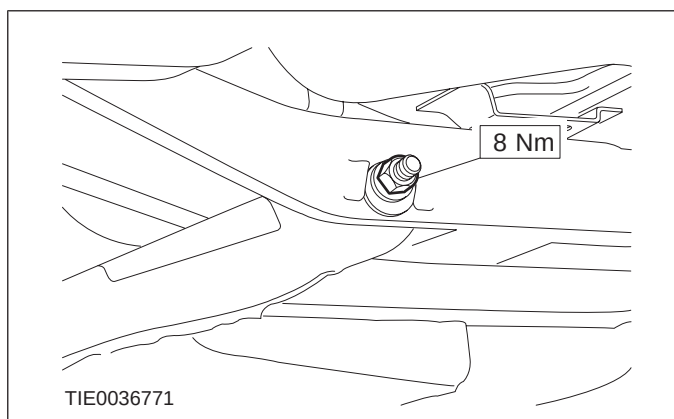


REMOVAL AND INSTALLATION**Item 9 Rear lower arm adjustment cam nut**

1. **NOTE:** Do not fully tighten the rear lower arm adjustment cam nut at this stage.

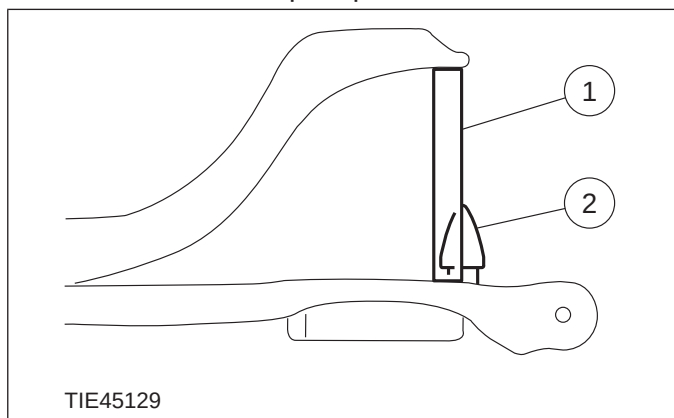
NOTE: Align the mark on the rear lower arm adjustment cam to the mark on the rear axle crossmember.

Install the rear lower arm adjustment cam nut on both sides.

**Item 4 Stabilizer bar**

1. **Lower the suspension from the design height setting on both sides.**

1. Remove the spacer.
2. Install the bump stop.



2. **Position the stabilizer bar.**

REMOVAL AND INSTALLATION

Rear Axle Crossmember — Vehicles With: Ball Joint Stabilizer Bar Link, Vehicles Without: Fuel Additive Tank

General Equipment

Securing strap

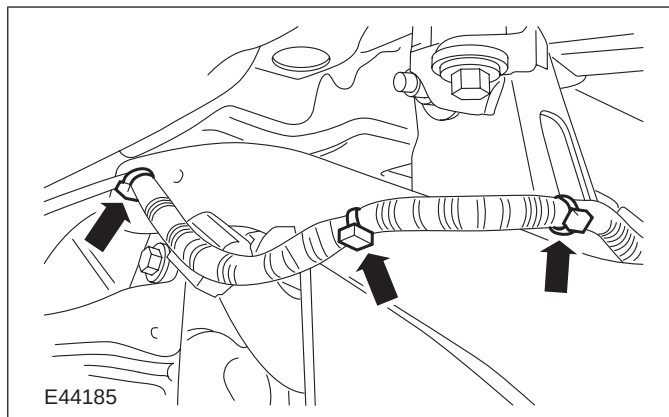
Transmission jacks

1. Remove the spring on both sides.
2. Remove the evaporative emission canister (if equipped).
3. Remove the headlamp leveling rear sensor (if equipped).

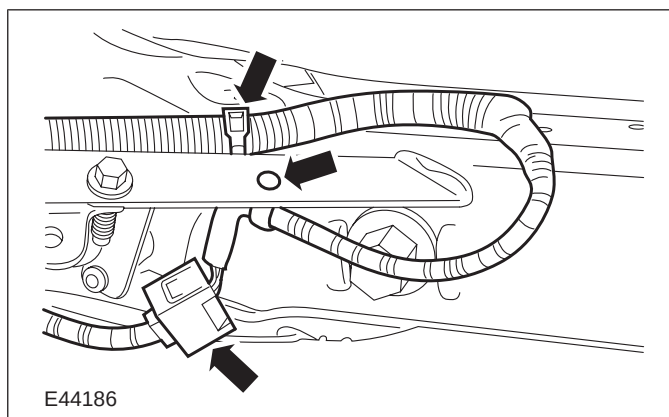
For additional information, refer to:

Headlamp Leveling Rear Sensor (417-01 Exterior Lighting, Removal and Installation).

4. Detach the headlamp leveling sensor wiring harness from the rear axle crossmember (if equipped).

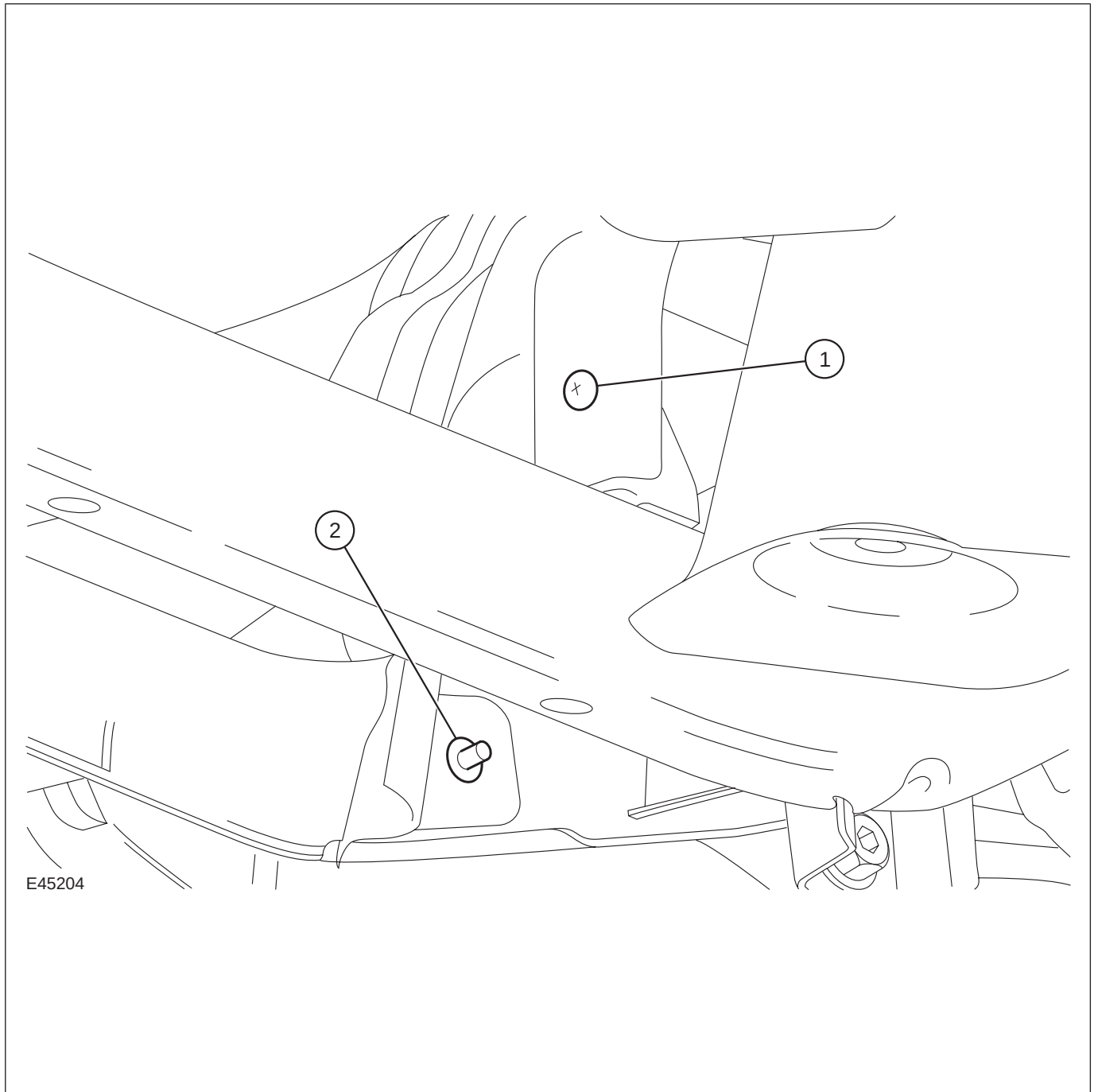


5. Detach the headlamp leveling sensor wiring harness from the rear axle crossmember and disconnect the electrical connector (if equipped).



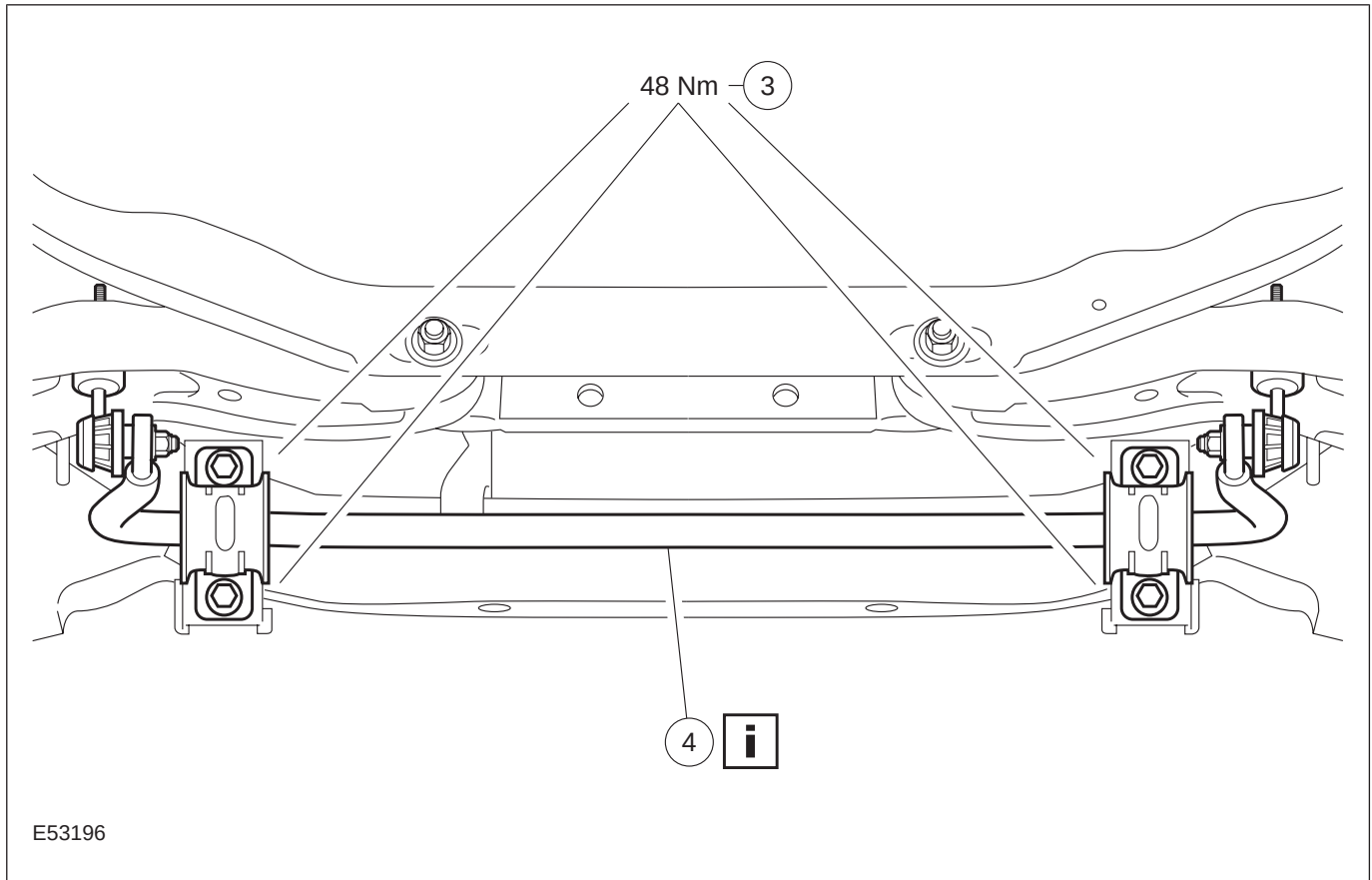
6. Remove the components in the order indicated in the following illustration(s) and table(s).

REMOVAL AND INSTALLATION



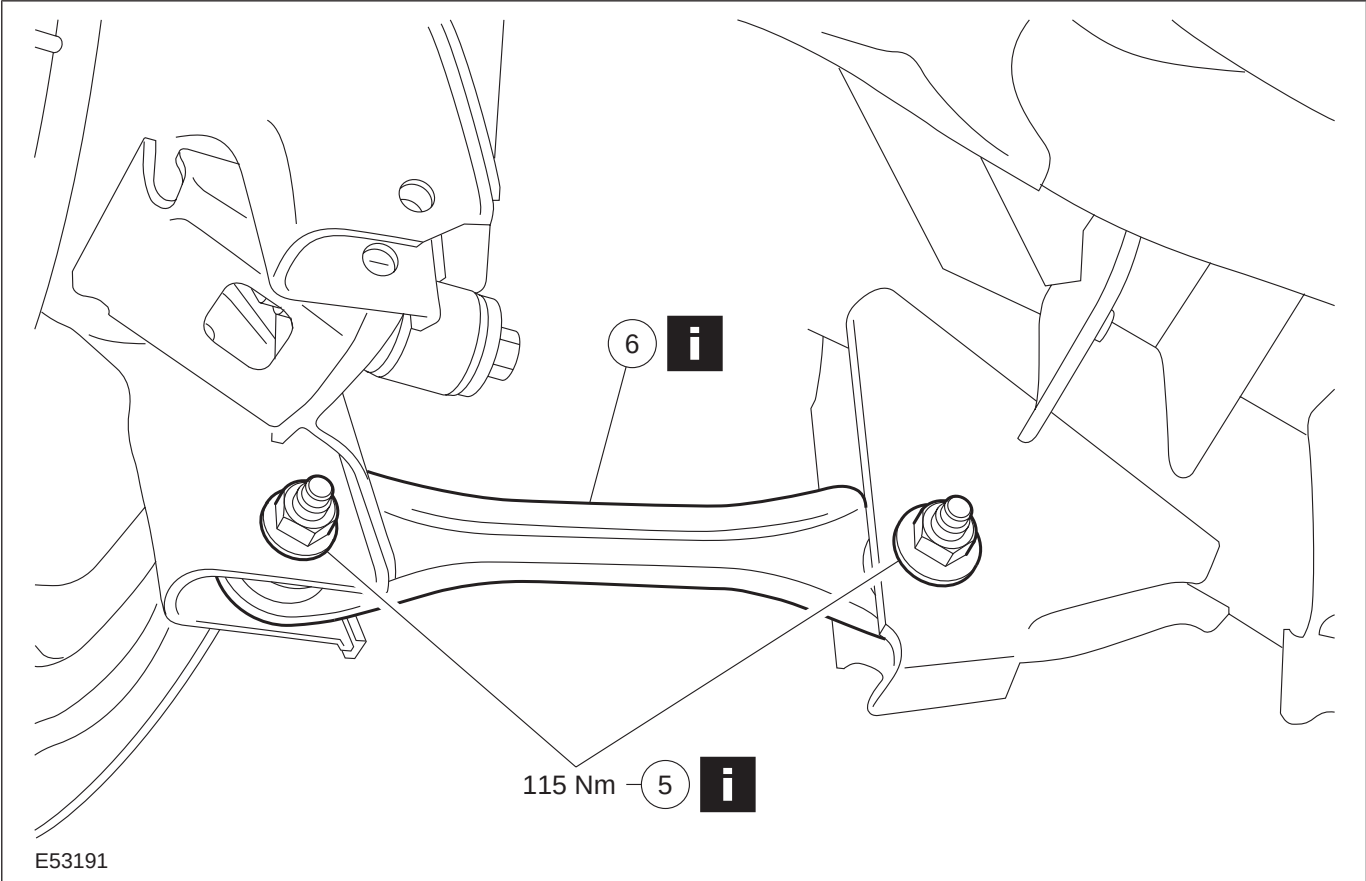
Item	Description
1	Evaporative emission canister heat shield to rear axle crossmember stud (if equipped)
2	Evaporative emission canister heat shield to rear axle crossmember retaining bolt (if equipped)

REMOVAL AND INSTALLATION



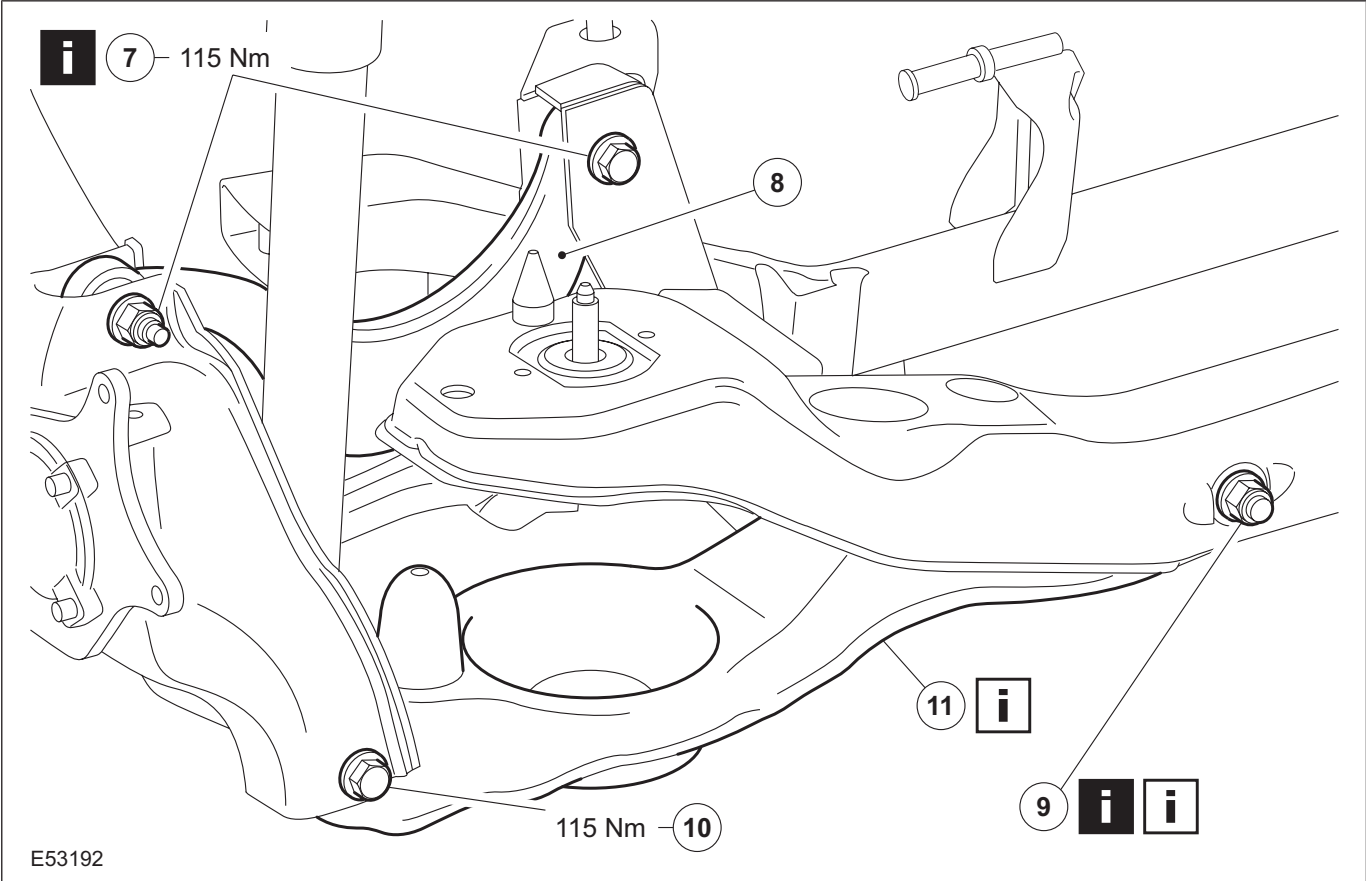
Item	Description
3	Stabilizer bar clamp retaining bolts
4	Stabilizer bar See Installation Detail

REMOVAL AND INSTALLATION



Item	Description
5	Front lower arm retaining bolts See Removal Detail
6	Front lower arm See Removal Detail

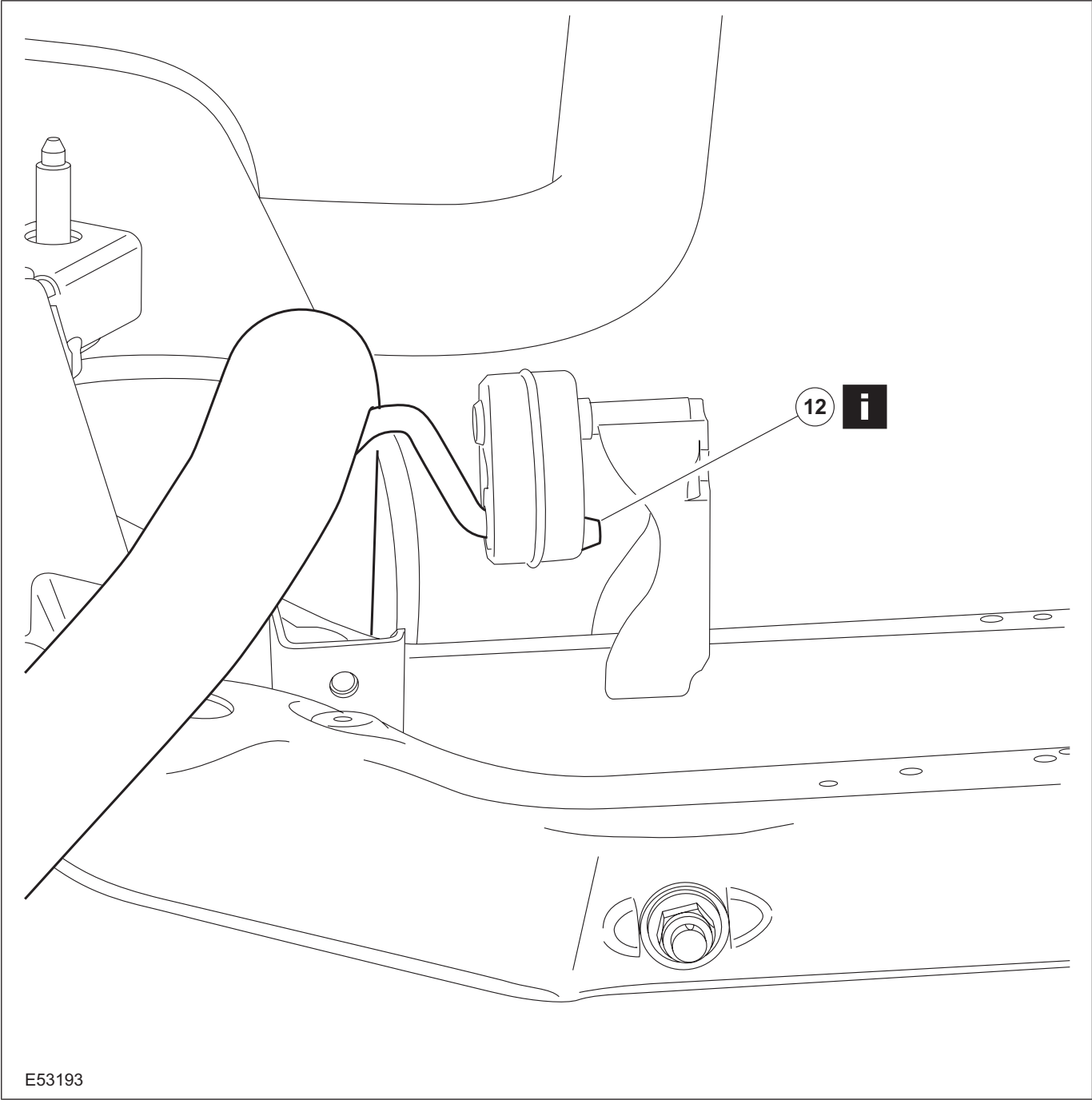
REMOVAL AND INSTALLATION



Item	Description
7	Upper arm retaining bolts See Removal Detail
8	Upper arm
9	Rear lower arm adjustment cam nut See Removal Detail See Installation Detail

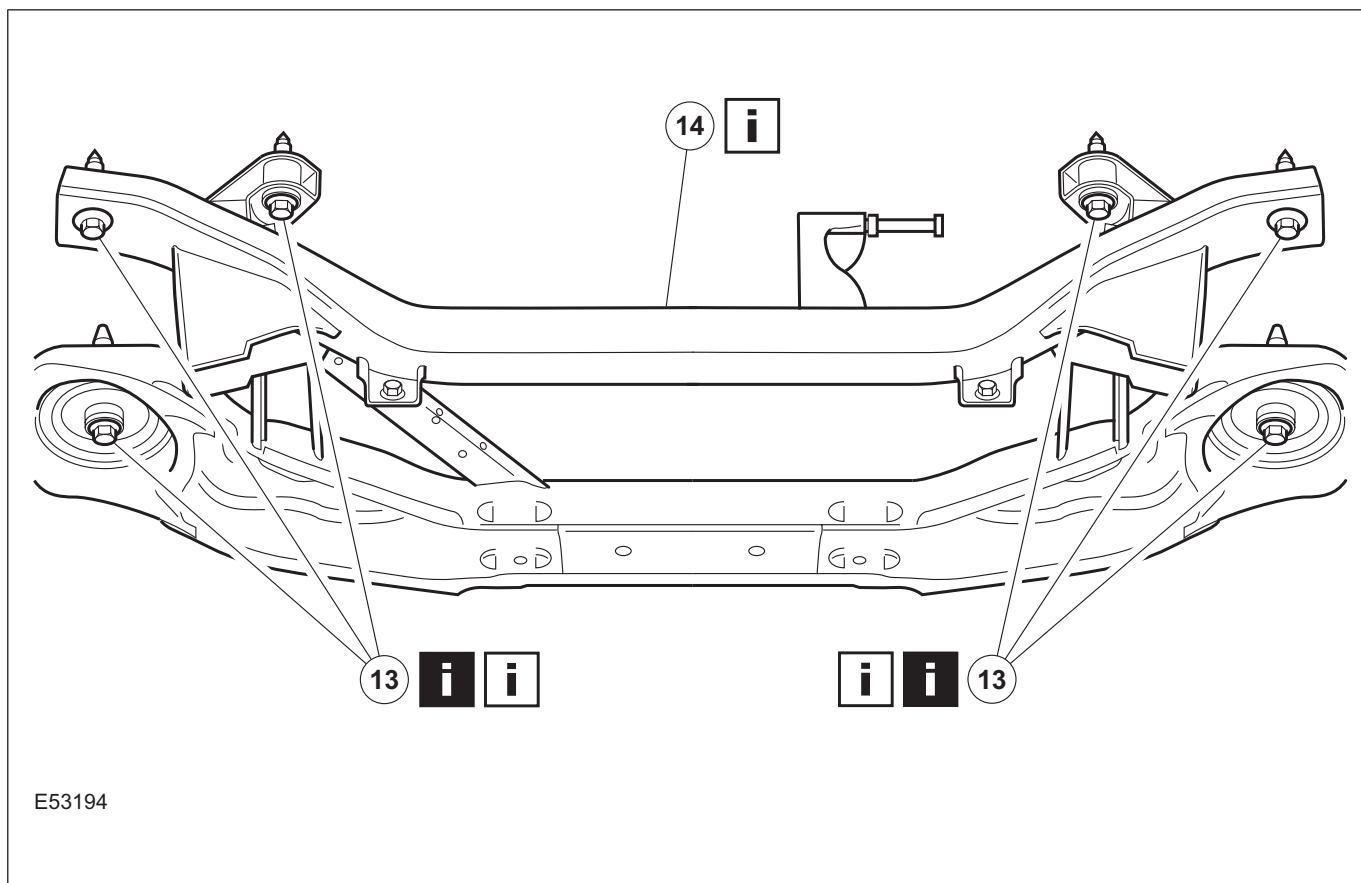
Item	Description
10	Rear lower arm to wheel knuckle retaining bolt
11	Rear lower arm See Installation Detail

REMOVAL AND INSTALLATION



Item	Description
12	Exhaust hanger insulator See Removal Detail

REMOVAL AND INSTALLATION



Item	Description
13	Rear axle crossmember retaining bolts See Removal Detail See Installation Detail
14	Rear axle crossmember See Installation Detail

7. To install, reverse the removal procedure.

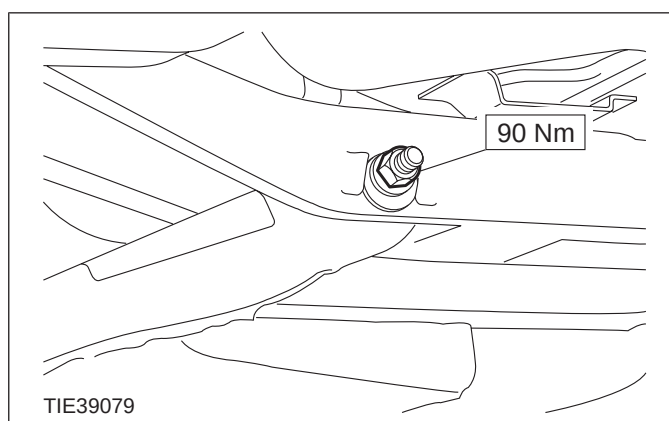
8. Check the toe setting and adjust as necessary. For additional information, refer to: (204-00 Suspension System - General Information)

Specifications (Specifications),
Rear Toe Adjustment (General Procedures).

9. **NOTE:** Final tightening of the rear lower arm adjustment cam nut must be carried out

when the vehicle weight is on the road wheels.

Tighten the rear lower arm adjustment cam nut on both sides.

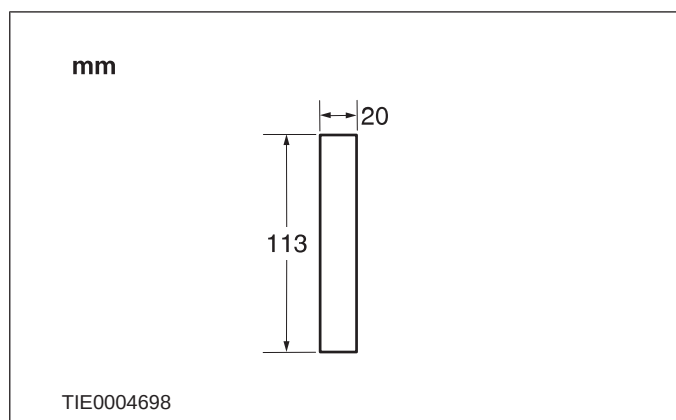


Removal Details

REMOVAL AND INSTALLATION

Item 5 Front lower arm retaining bolts

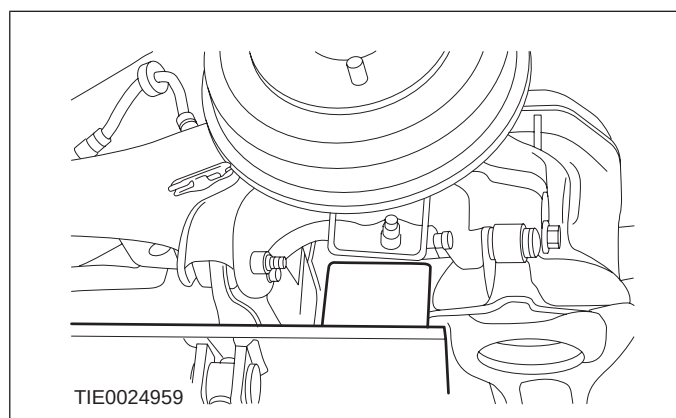
1. Fabricate two 20 mm wide by 113 mm long spacers.



2. **CAUTION:** Both sides of the suspension must be set to the design height setting.

Using two transmission jacks and wooden blocks, raise the suspension to the design height setting on both sides.

- Position the transmission jack and the wooden block as shown.

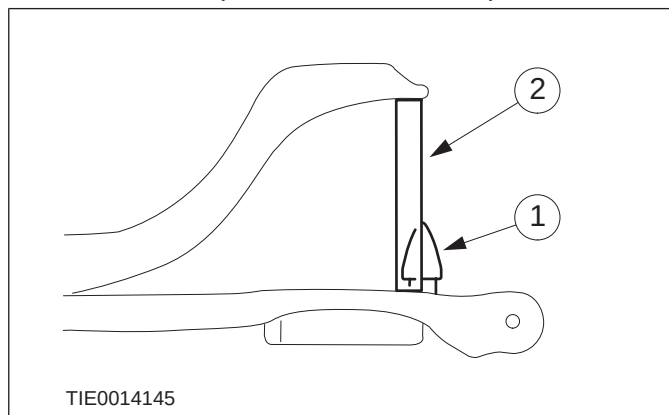


3. **NOTE:** The spacer must be positioned exactly as shown.

Install the spacer on both sides.

1. Remove the bump stop.

2. Install the spacer between the rear lower arm and the rear axle crossmember making sure that the spacer is in a vertical plane.

**Item 6 Front lower arm**

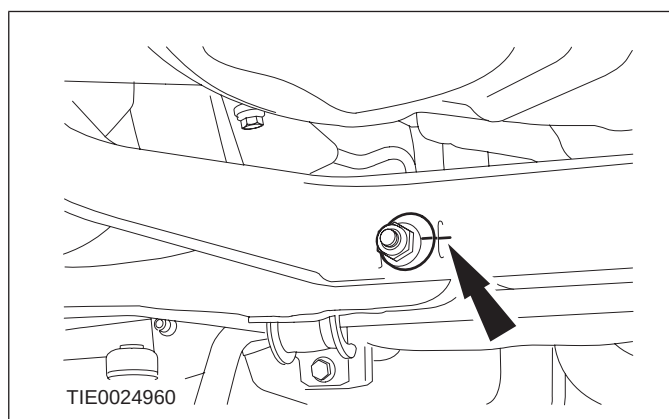
- CAUTION:** The front lower arms are marked **FRONT**. Make a note of the position of the front lower arms to aid installation.

Item 7 Upper arm retaining bolts

NOTE: Make a note of the position of the upper arms to aid installation.

Item 9 Rear lower arm adjustment cam nut

1. Mark the position of the rear lower arm adjustment cam to the rear axle crossmember on both sides.

**Item 12 Exhaust hanger insulator**

NOTE: Support the exhaust muffler and tailpipe assembly.

Item 13 Rear axle crossmember retaining bolts

1. Using a transmission jack, support the rear axle crossmember.

REMOVAL AND INSTALLATION

2. **⚠ WARNING:** Make sure that the rear axle crossmember is secured to the transmission

jack. Failure to follow this instruction may result in personal injury.

Using a securing strap, secure the rear axle crossmember to the transmission jack.

Installation Details

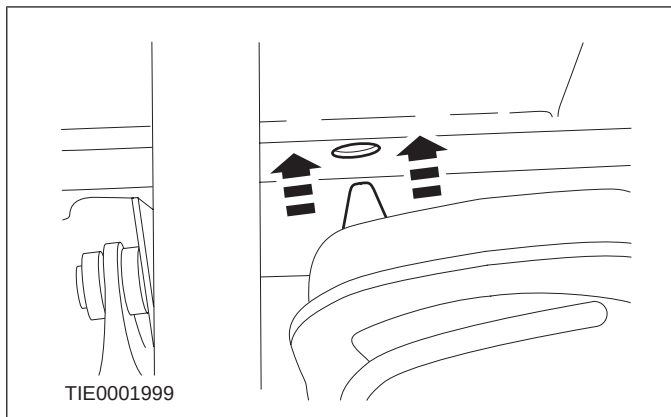
Item 14 Rear axle crossmember

1. Using a transmission jack, support the rear axle crossmember.

2. **⚠ WARNING:** Make sure that the rear axle crossmember is secured to the transmission jack. Failure to follow this instruction may result in personal injury.

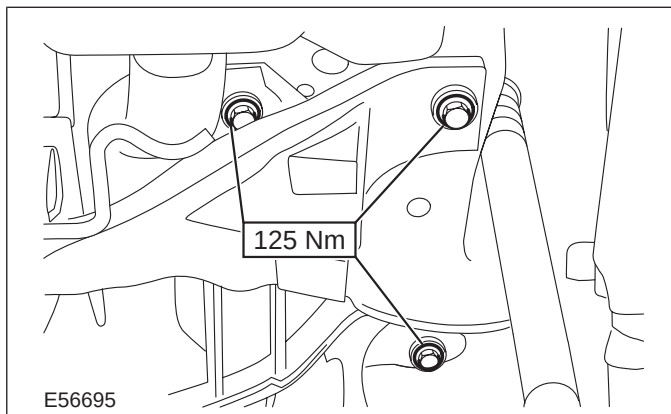
Using a securing strap, secure the rear axle crossmember to the transmission jack.

3. Locate the rear axle crossmember.



Item 13 Rear axle crossmember retaining bolts

1. Install the rear axle crossmember retaining bolts on both sides.



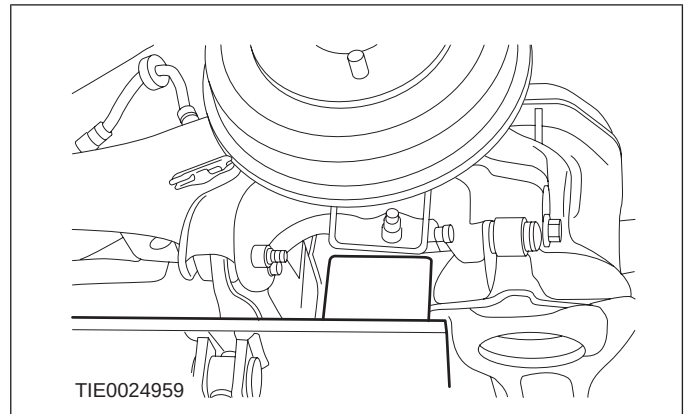
2. Remove the securing strap.
3. Lower and remove the transmission jack.

Item 11 Rear lower arm

1. **⚠ CAUTION:** Both sides of the suspension must be set to the design height setting.

Using two transmission jacks and wooden blocks, raise the suspension to the design height setting on both sides.

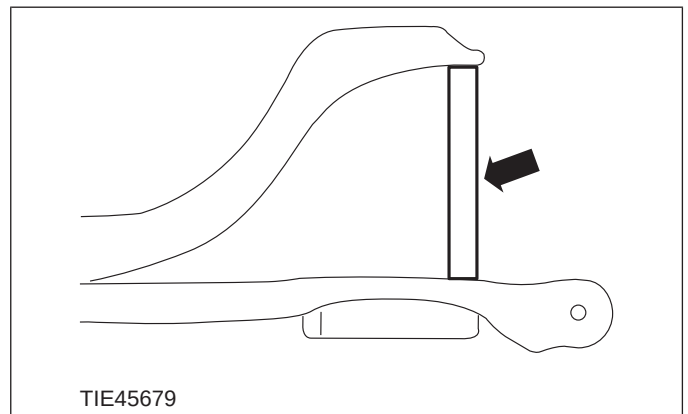
- Position the transmission jack and the wooden block as shown.



2. **NOTE:** The spacer must be positioned exactly as shown.

Install the spacer on both sides.

- Install the spacer between the rear lower arm and the rear axle crossmember making sure that the spacer is in a vertical plane.

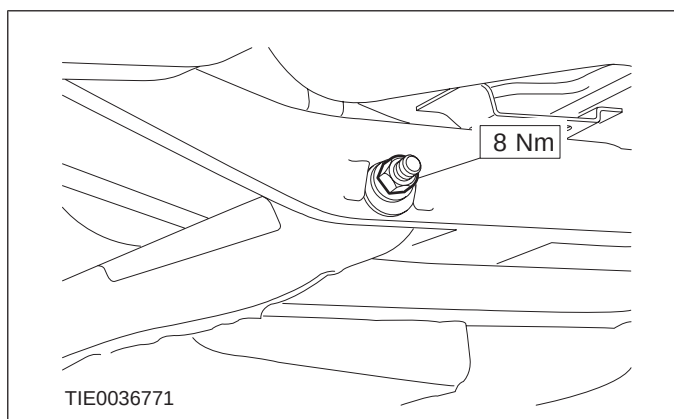


REMOVAL AND INSTALLATION**Item 9 Rear lower arm adjustment cam nut**

1. **NOTE:** Do not fully tighten the rear lower arm adjustment cam nut at this stage.

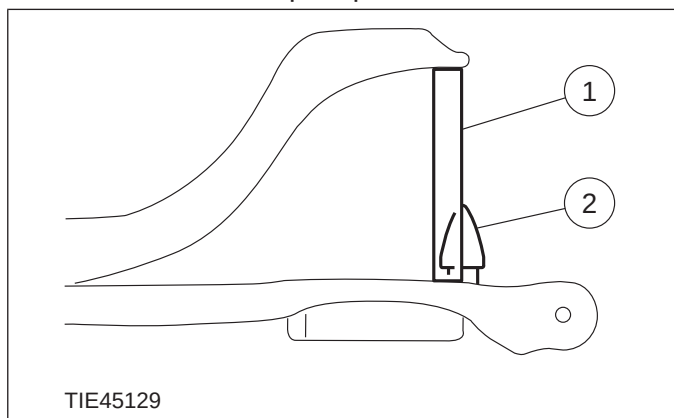
NOTE: Align the mark on the rear lower arm adjustment cam to the mark on the rear axle crossmember.

Install the rear lower arm adjustment cam nut on both sides.

**Item 4 Stabilizer bar**

1. **Lower the suspension from the design height setting on both sides.**

1. Remove the spacer.
2. Install the bump stop.



2. **Position the stabilizer bar.**