

## Rear Suspension -

### Coil Spring Suspension

Item	Specification
Rear	Conventional coil spring with a twin tube damper and a high stress stabilizer bar

### Road Spring Color Coding - Rear

Part Number	Spring Color	Isolator
RKB 500210	Grey	LR 003092 (9mm)
RKB 500210	Grey/White	LR 005304 (15mm)
RKB 500220	Brown	LRL 003092 (9mm)
RKB 500220	Brown/White	LR 005304 (15mm)

NOTE: The grey or brown springs have a 9 mm thick isolator

NOTE: The grey/white or brown/white springs have a 15 mm thick isolator

To maintain correct trim height make sure the spring colour and appropriate isolator is matched

### Torque Specifications

Description	Nm	lb-ft
Damper locknut	80	59
Front lower arm transverse links nuts & bolts	175	129
Rear ride height sensor	10	7
Rear lower arm nuts & bolts	175	129
Spring and damper assembly top mounting nuts	32	24
Stabilizer bar bushing clamp bolts*	60	44
Stabilizer link nuts*	60	44
Trailing arm nuts and bolts	270	199
Trailing arm bracket to body bolts*	110	81
Wheel knuckle to damper clamp bolt	110	81

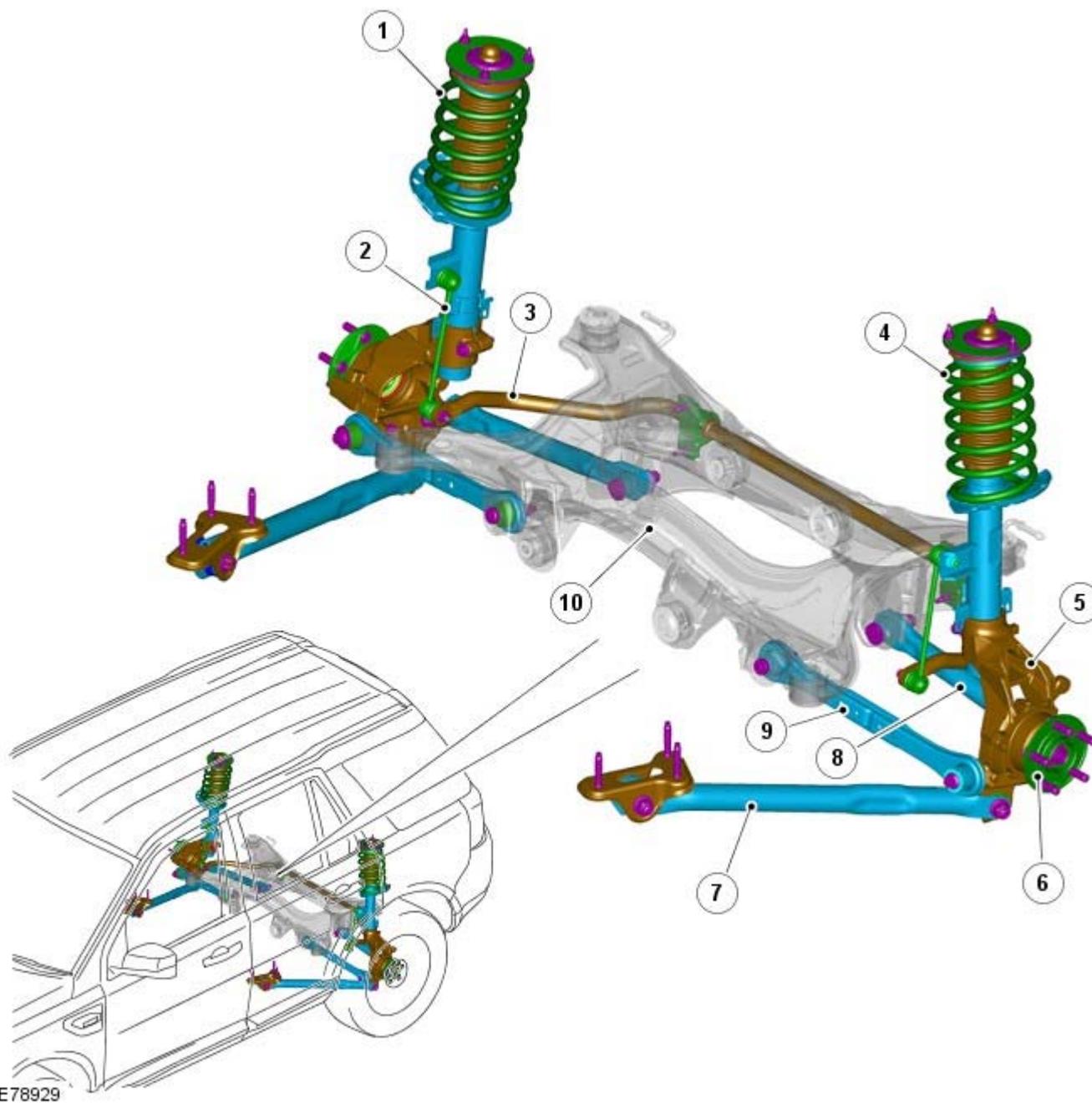
\* New nuts/bolts must be fitted

**Part Number**  
**Rear Suspension - Rear Suspension**

Published: 11-May-2011

Description and Operation

**COMPONENT LOCATION**



E78929

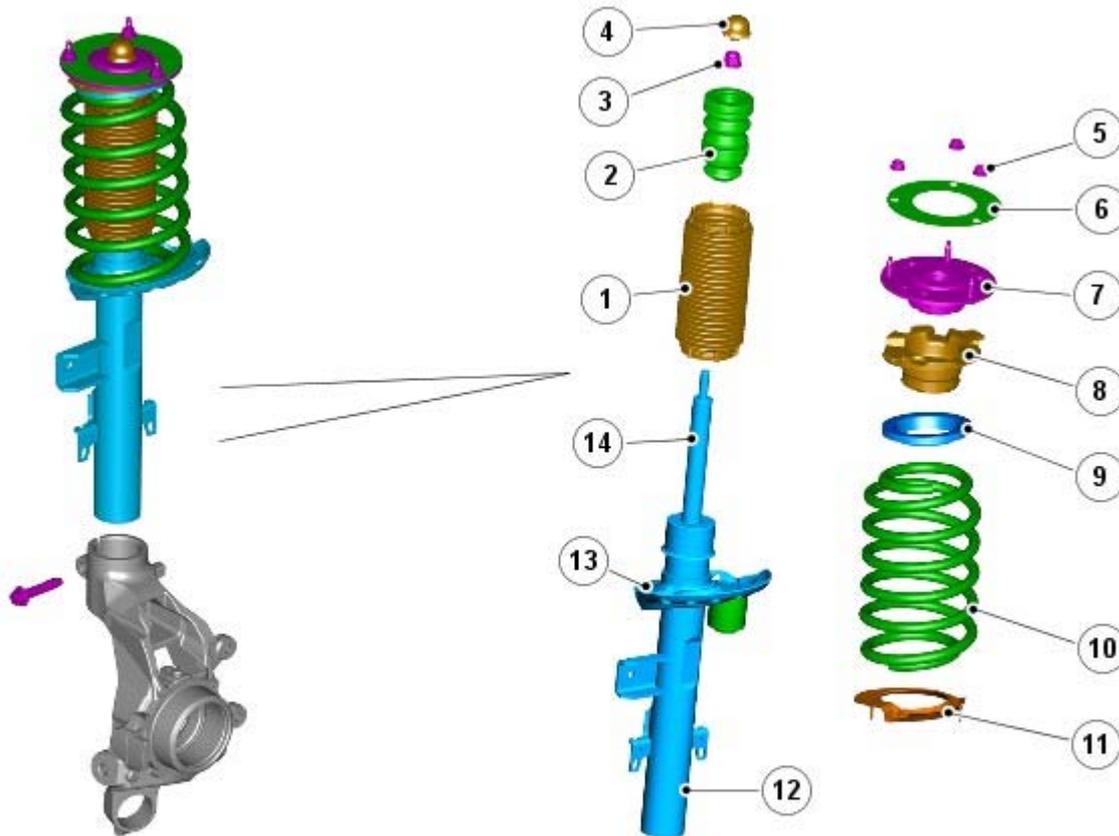
Item	Part Number	Description
1	-	Right Hand (RH) spring and damper assembly
2	-	Stabilizer link
3	-	Stabilizer bar
4	-	Left Hand (LH) spring and damper assembly
5	-	Wheel knuckle
6	-	Hub
7	-	Longitudinal link
8	-	Rear transverse link
9	-	Front transverse link
10	-	Subframe

## OVERVIEW

The rear suspension features long travel McPherson struts to optimize on and off road performance.

The suspension components are mounted on a subframe which provides a rigid platform attached to the underside of the vehicle body. The subframe is mounted to the body on 4 bushes which have differing compression rates to absorb lateral and longitudinal loading from cornering and braking.

## SPRING AND DAMPER



E78930

Item	Description
1	Boot
2	Spring aid
3	Locknut
4	Cap
5	Locknut (3 off)
6	Gasket
7	Top mount assembly
8	Spacer
9	Spring isolator
10	Spring
11	Spring isolator
12	Damper body
13	Spring seat
14	Damper piston rod

The spring and damper assembly is a twin tube design with the conventional coil spring located on a welded spring seat on the damper tube. The lower end of the damper body locates in the wheel knuckle which is clamped with a bolt.

The damper functions by restricting the flow of hydraulic fluid through internal galleries within the damper. The damper rod moves axially within the damper, its movement limited by the flow of fluid through the galleries, providing damping of undulations in the terrain. The damper rod is sealed at its exit point from the damper body to maintain the fluid within the

unit and to prevent the ingress of dirt and moisture. The seal also incorporates a wiper to keep the rod clean.

The damper rod is located through a central hole in the top mount assembly. The rod is threaded at its outer end. A self-locking nut secures the top mount to the damper rod. A spring aid is fitted to the damper rod to prevent the top mount contacting the top of the damper during full suspension compression and also assists the suspension tune. A boot is fitted between the damper body and the top mount and protects the damper piston rod from damage.

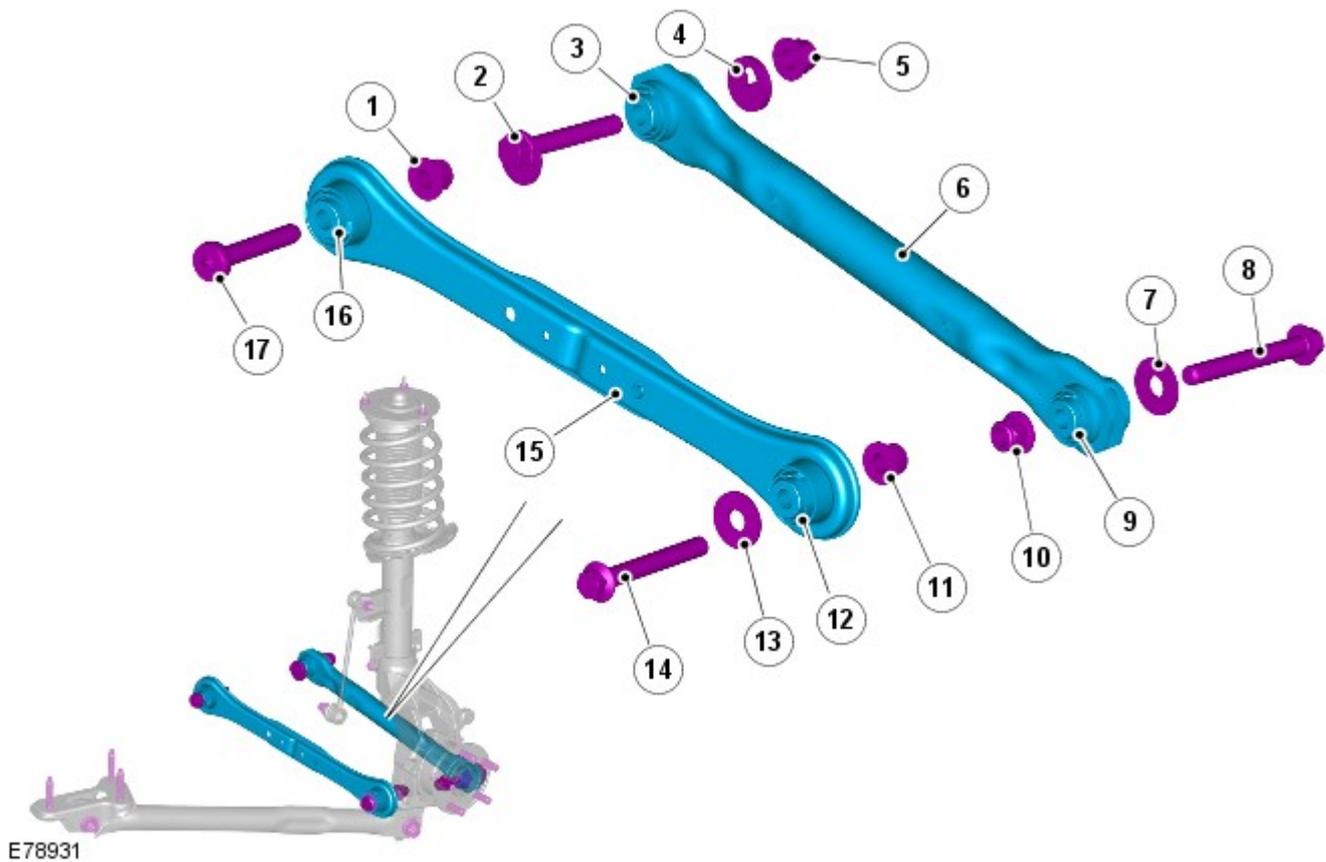
The coil spring fitted differs with vehicle specification. Each spring is colour coded to identify its rating and fitment requirements.

The coil spring is located in a spring seat which is an integral part of the damper body and contains a spring isolator. The design of the spring seat prevents the spring rotating. The spring has a linear rate compression and is inclined to counter cornering forces. The opposite end of the coil spring is also located in a spring isolator which is fitted in the top mount assembly. Both spring isolators are made from rubber and prevent any noise produced during damper and spring compression/extension from being transmitted to the vehicle body. A mass damper is attached to the damper spring seat to absorb vibration and prevent noise intrusion into the vehicle interior.

The top mount is fitted with a gasket to prevent the ingress of moisture between the top mount and the turret mounting. The top mount attaches to a strengthened turret on the chassis with 3 integral studs and self-locking nuts.

Two brackets are welded to the damper body. One bracket provides for the attachment of the stabilizer link. The second bracket provides for the attachment of the brake hose and wheel speed sensor cable. This bracket also positively locates the damper into the wheel knuckle and its location is critical to controlling the vehicle trim height.

### TRANSVERSE LINKS



Item	Description
1	Locknut
2	Eccentric bolt
3	Bush - inner
4	Eccentric cam washer
5	Locknut
6	Rear transverse link
7	Washer
8	Bolt
9	Bush - outer
10	Locknut

11		Locknut
12		Bush - outer
13		Washer
14		Bolt
15		Front transverse link
16		Bush - inner
17		Bolt

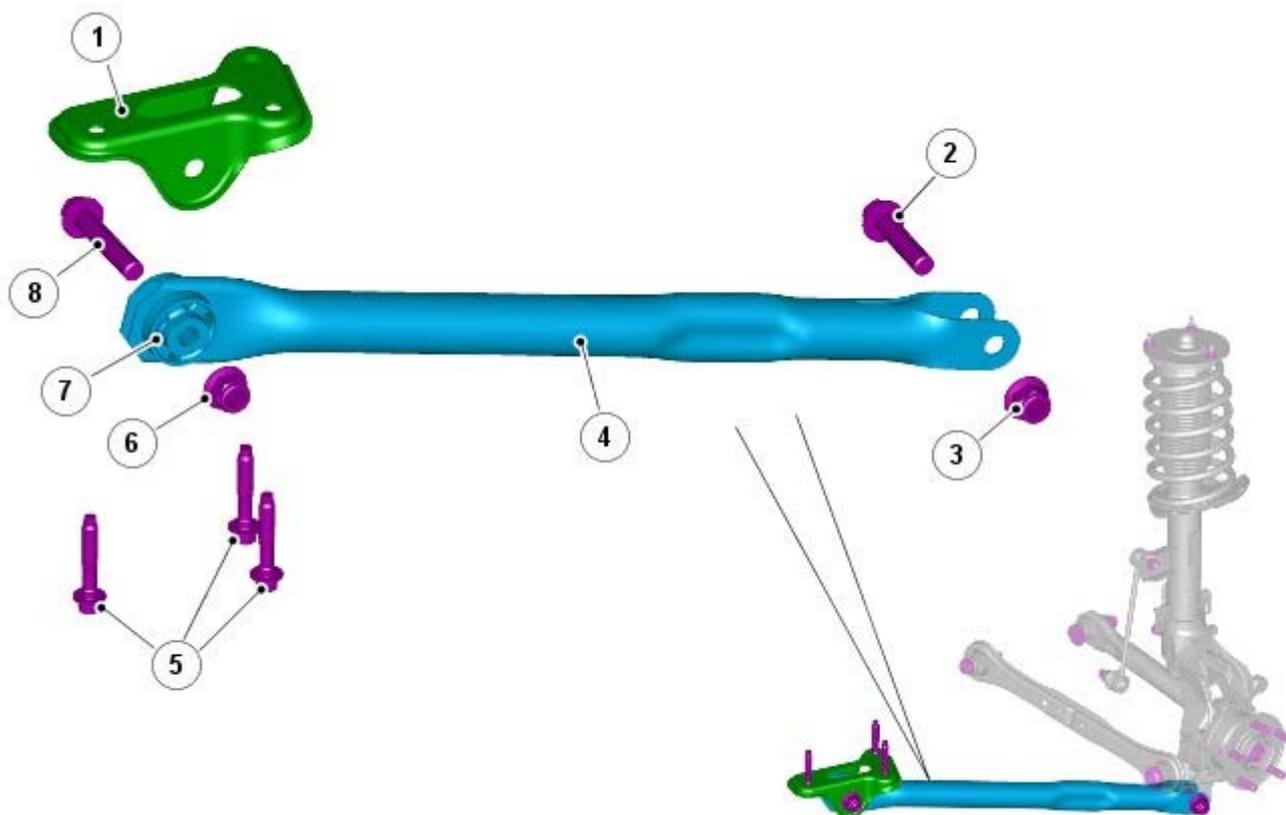
Lateral wheel location is provided by 2 transverse links which are located between the subframe and the wheel knuckle. The links are long to give excellent camber control. Each link is fitted with dynamic bushes to control the rear camber in a progressive manner as cornering loads increase which gives a limited amount of passive rear wheel steering. The 2 transverse links are different in their design. The front link is a steel pressing. The rear link is fabricated from squeezed and cropped tube. The links are designed to withstand vehicle jacking loads.

The front transverse link is fitted with bushes which compress under cornering forces to provide a controlled amount of rear wheel toe-in, in addition to the camber control. The front link has a deform point in a central position along its length. This allows the link to be deformed in the event of a severe lateral rear wheel impact, for example striking a kerb. In the event of a severe lateral impact, the link will permanently deform, absorbing the impact and protecting the subframe from damage. The amount of deformation creates excessive toe-in which is immediately noticeable to the driver.

The rear transverse link is mounted to the subframe using an eccentric bolt and washer which allows for adjustment of the wheel toe angle.

Both transverse links are attached to the subframe with bolts and locknuts. The outer ends of each link locate in mounting holes integral with the wheel knuckle and are secured with bolts and locknuts.

### LONGITUDINAL LINK



E78932

Item		Description
1		Body mounting bracket
2		Bolt
3		Locknut
4		Longitudinal link
5		Bolts
6		Locknut
7		Bush

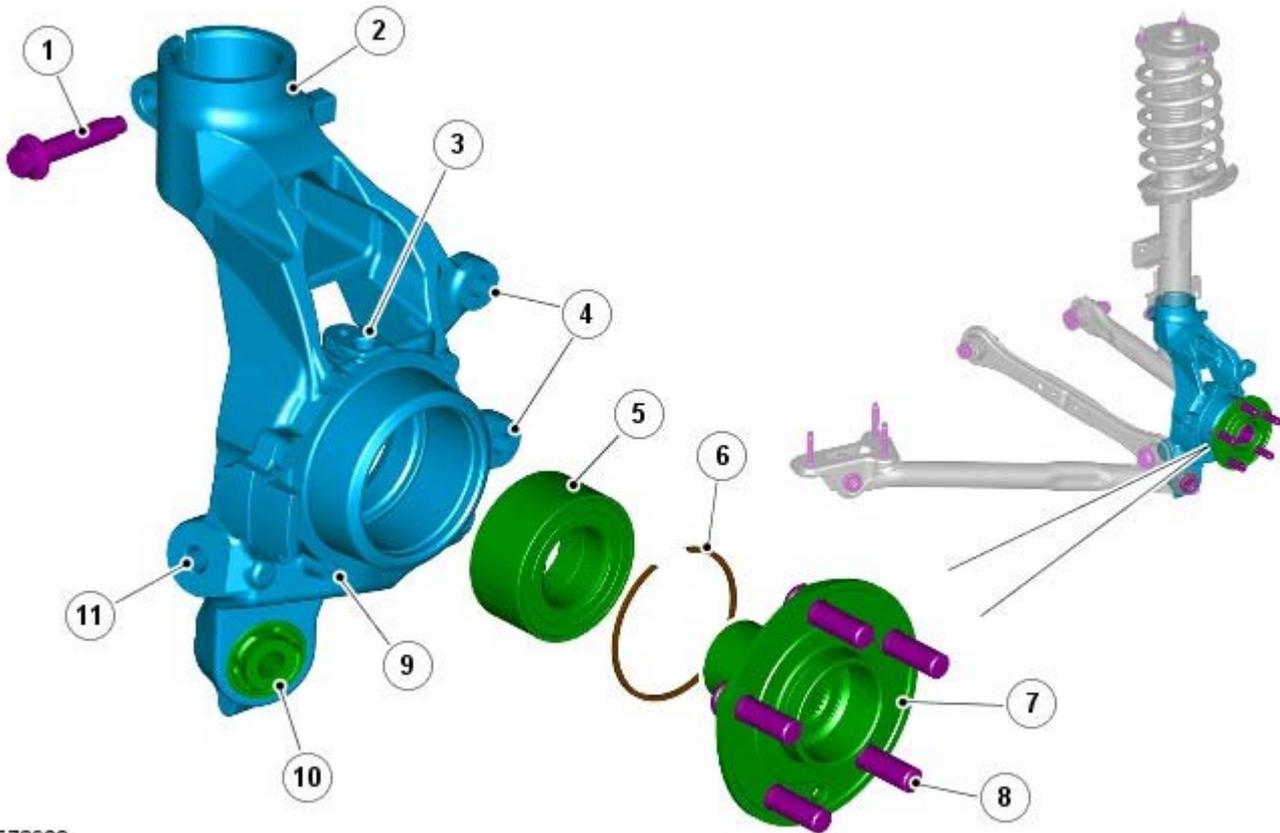
8	Bolt
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The longitudinal links are fabricated from squeezed and cropped tube and are located between the wheel knuckle and the vehicle body. The links control the rear suspension in reaction to braking and traction forces.

The rear mounting is forked and locates on either side of a bush pressed into the wheel knuckle. The link is secured with a bolt and locknut which passes through the bush.

The front mounting of the link locates in a bracket which is bolted to the underside of the vehicle sill. The link is fitted with a bush which locates in the bracket and is secured with a bolt and locknut.

**WHEEL KNUCKLE AND HUB**



E78933

Item	Description
1	Clamp bolt
2	Wheel knuckle
3	Anti-lock Brake system (ABS) wheel speed sensor
4	Brake caliper attachment
5	Bearing
6	Circlip
7	Hub
8	Studs
9	Disc shield attachment
10	Bush - Longitudinal link
11	Front transverse link attachment

The cast steel wheel knuckle provides the attachment for the transverse links, longitudinal link, spring and damper assembly and the wheel hub and bearing assembly.

An extended lower boss on the knuckle is fitted with a pressed bush and provides for the attachment of the longitudinal link. The link is secured to the knuckle with a bolt and locknut which passes through both the link and the bush.

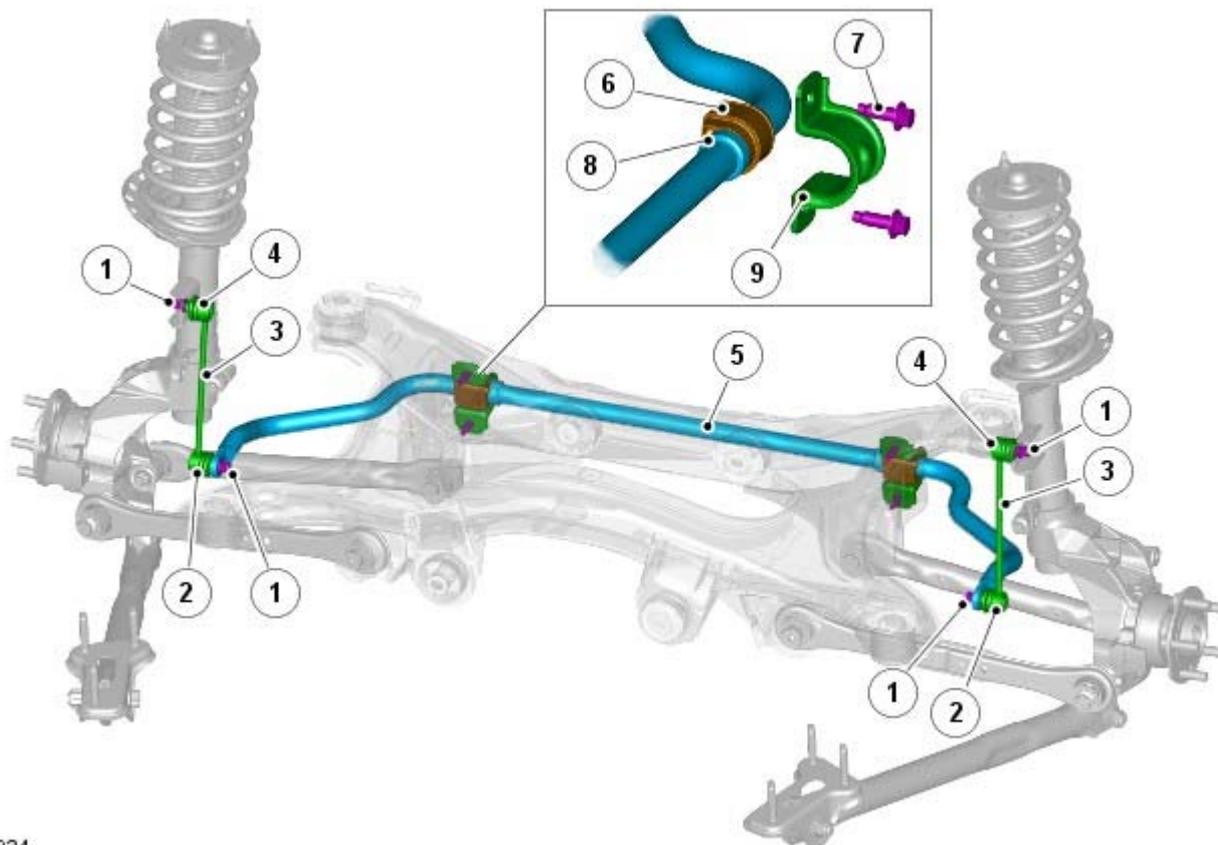
Two further bosses on the inside face of the wheel knuckle allow for the attachment of the front and rear transverse links which are each secured with a bolt and locknut.

The upper section of the wheel knuckle has a location hole for the damper body. The damper body slides into the hole and locates against an abutment on the damper body. The rear face of the hole is split and allows the damper body to be secured in the wheel knuckle with a clamp bolt.

Mounting locations are provided for the brake caliper and the brake disc shield. A hole in the top face of the wheel knuckle provides the location for the ABS wheel speed sensor which is secured with a bolt.

The wheel hub assembly includes the wheel bearing and ABS sensor pulse ring. The hub assembly is a non-serviceable component and requires replacement as a complete assembly.

## STABILIZER BAR



E78934

Item	Description
1	Locknut
2	Ball joint
3	Link
4	Ball joint
5	Stabilizer bar
6	Bush
7	Bolt
8	Collar
9	Clamp

The stabilizer bar is attached to the rear of the subframe with bushes and mounting brackets. The pressed steel brackets locate over the bushes and are attached to the cross member with bolts screwed into threaded locations in the subframe. The stabilizer bar has 'anti-shuffle' collars pressed in position on the inside edges of the bushes. The collars prevent sideways movement of the stabilizer bar.

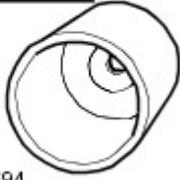
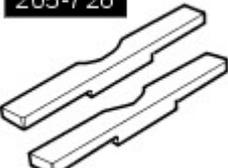
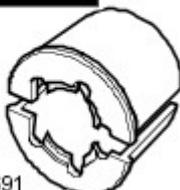
The stabilizer bar is manufactured from 22 mm diameter, manganese steel bar. Each end of the stabilizer bar curves forwards to attach to a ball joint on a stabilizer link. Each stabilizer link is secured to a bracket on the damper body with a locknut. The links, which are not handed, allow the stabilizer bar to move with the wheel travel providing maximum effectiveness. The stabilizer bar bushes are of the compression type which grip the bar under compression by the clamps.

The stabilizer bar bushes are the compression type which grip the bar under compression by the mounting brackets. When fitting replacement bushes to the bar it is important to ensure the bushes are correctly orientated to the bar. Failure to correctly align the bushes will result in excessive pre-load (wind-up) in the bushes when the suspension is at its nominal ride height.

## Rear Suspension - Rear Wheel Bearing

Removal and Installation

### Special Tool(s)

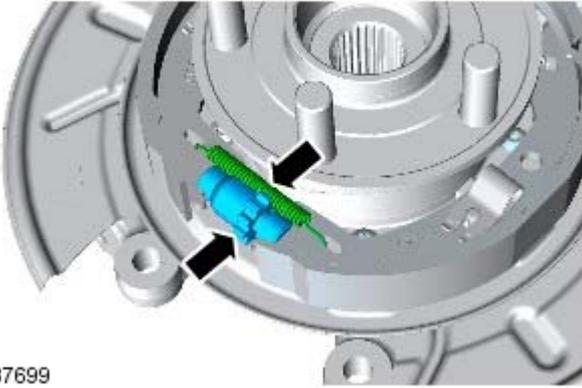
 <p>204-528/2 Remover/Installer, Bushing</p> <p>E87694</p>	<p>204-528/2 Remover/Installer, Bushing</p>
 <p>205-725 Remover/Installer, Wheel Hub</p> <p>E87690</p>	<p>205-725 Remover/Installer, Wheel Hub</p>
 <p>205-726 Remover/Installer, Wheel Hub Bearing</p> <p>E87692</p>	<p>205-726 Remover/Installer, Wheel Hub Bearing</p>
 <p>205-728 Remover/Installer, Wheel Hub</p> <p>E87693</p>	<p>205-728 Remover/Installer, Wheel Hub</p>
 <p>205-802/5 Remover, Wheel Hub/Bearing</p> <p>E87691</p>	<p>205-802/5 Remover, Wheel Hub/Bearing</p>

### Removal

-  **WARNING:** Make sure to support the vehicle with axle stands.  
Raise and support the vehicle.
- Remove the wheel and tire.  
  
Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).
- Remove the wheel knuckle.

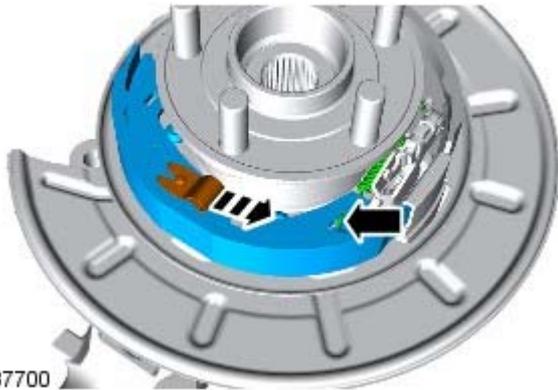
Refer to: [Wheel Knuckle](#) (204-02 Rear Suspension, Removal and Installation).

4.



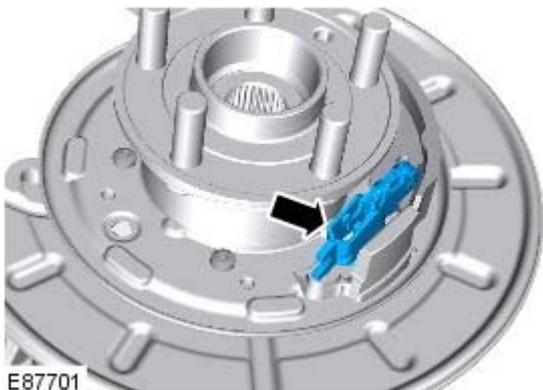
E87699

5.



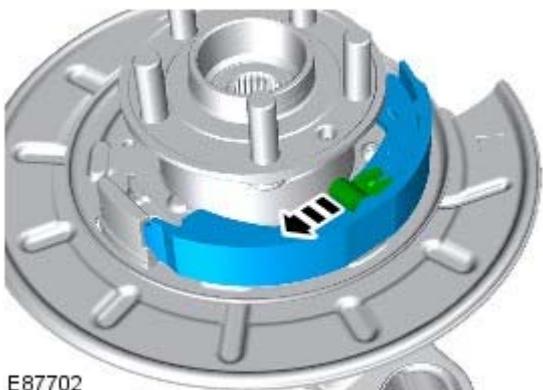
E87700

6.

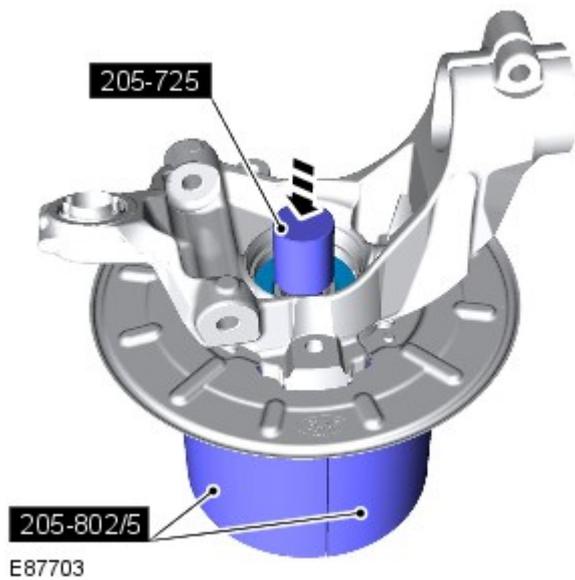


E87701

7.



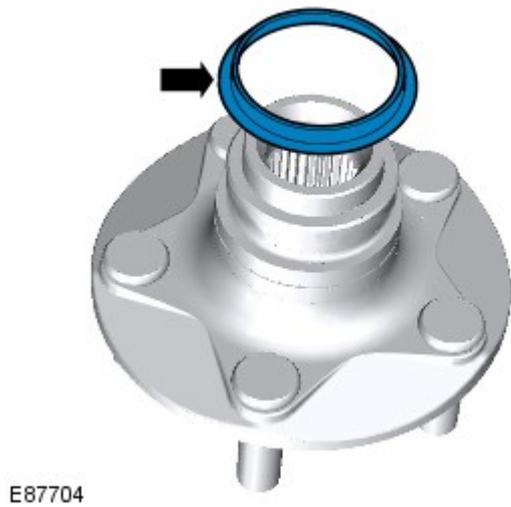
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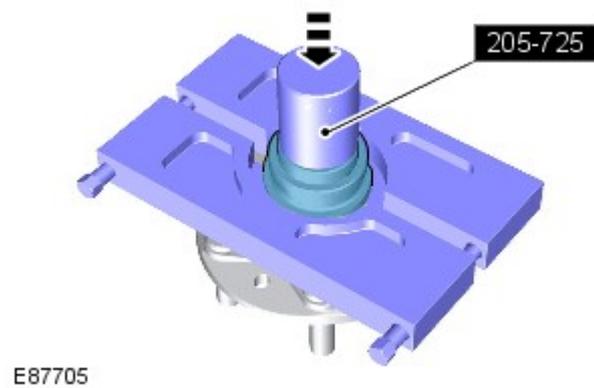
8. **NOTE:** Bearing damage is unavoidable during this operation.
- Position the wheel knuckle assembly in a press and support on special tool.
- Special Tool(s):* [205-802/5](#)
- Press the drive flange out of the wheel knuckle assembly using special tool.

*Special Tool(s):* [205-725](#)

9. **NOTE:** The inner bearing track will remain on the drive flange.



E87704

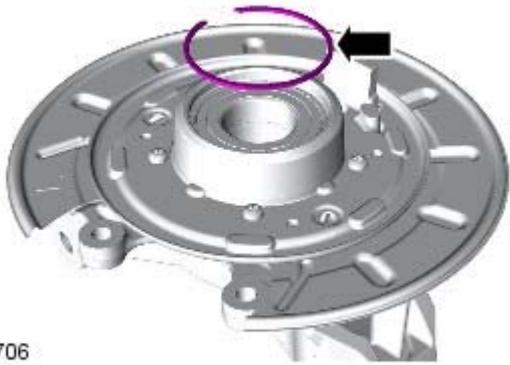


E87705

- 10.
- Clamp both halves of a suitable bearing separator around the inner bearing track and position the drive flange in a press.
  - Using the special tool, press the drive flange from the inner bearing track.

*Special Tool(s):* [205-725](#)

11. Remove the circlip from the wheel knuckle assembly.



E87706

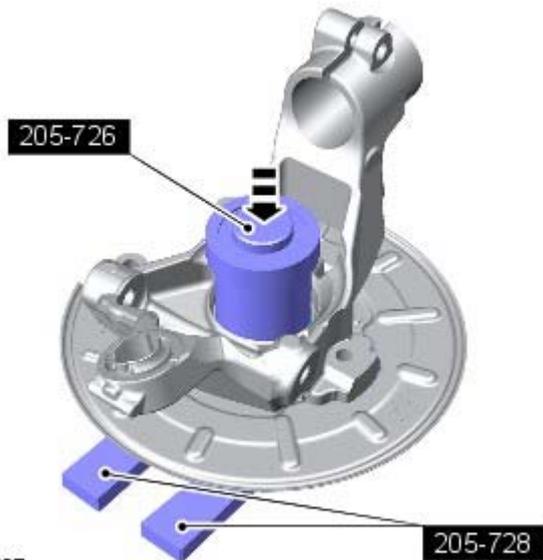
12.

- Position the wheel knuckle assembly in a press and support on special tools.

*Special Tool(s):* [205-728](#)

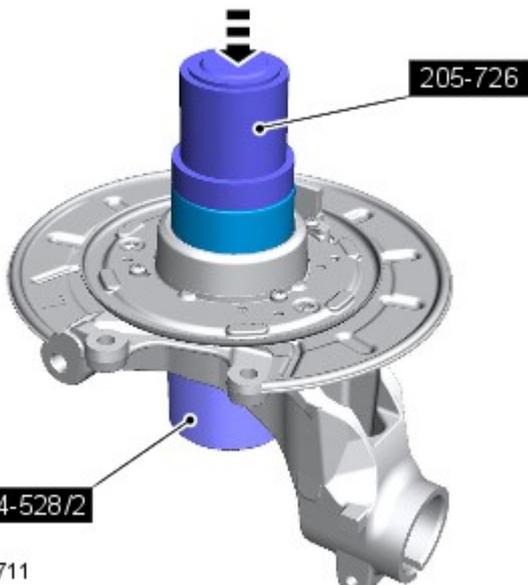
- Press the wheel bearing out of the wheel knuckle assembly using special tool.

*Special Tool(s):* [205-726](#)



E87707

## Installation



E87711

1.  **CAUTION:** One side of the bearing is magnetic. The magnetic side is identifiable by the application of a matt black finish. The magnetic side must face towards the inboard side of the vehicle. Before fitting the bearing, make sure the magnetic face is clean. The bearing must be handled with extreme care.

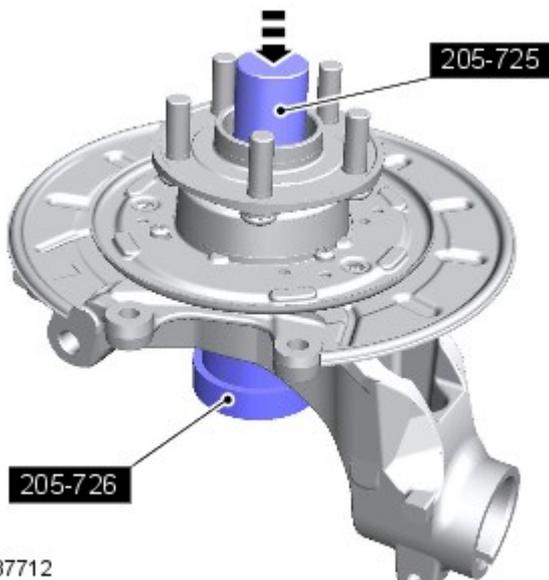
- Position the wheel knuckle assembly in a press and support on special tool.

*Special Tool(s):* [204-528/2](#)

- Press the new wheel bearing into the wheel knuckle assembly using special tool.

*Special Tool(s):* [205-726](#)

2. Install the circlip to the wheel knuckle assembly.



E87712

3.

- Position the wheel knuckle assembly in a press and support on special tool.

*Special Tool(s):* [205-726](#)

- Press the drive flange into the wheel knuckle assembly using special tool.

*Special Tool(s):* [205-725](#)

4.  **WARNING:** Do not use compressed air to clean brake components. Dust from friction materials can be harmful if inhaled.
- Clean the backing plate and apply grease to the brake shoe contacts.

5. Clean the adjuster and set it to its minimum extension.

- 6.
- Install the secondary brake shoe.
  - Install the hold-down spring and retaining pin.

7.  **WARNING:** Make sure the return spring and the adjuster spring are correctly installed to the primary shoe.

 **CAUTION:** Make sure the brake shoe spring is not over stretched.

- Install the spreader plate and the spring.
- Install the primary brake shoe.
- Install the return spring.
- Install the hold-down spring and retaining pin.

8.  **CAUTION:** Make sure the brake shoe spring is not over stretched.

Install the brake shoe adjuster.

9. Install the wheel knuckle.

Refer to: [Wheel Knuckle](#) (204-02 Rear Suspension, Removal and Installation).

10. Adjust the parking brake.

Refer to: [Parking Brake Cable Adjustment](#) (206-05 Parking Brake and Actuation, General Procedures).

11. Install the wheel and tire.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

## Rear Suspension - Front Lower Arm

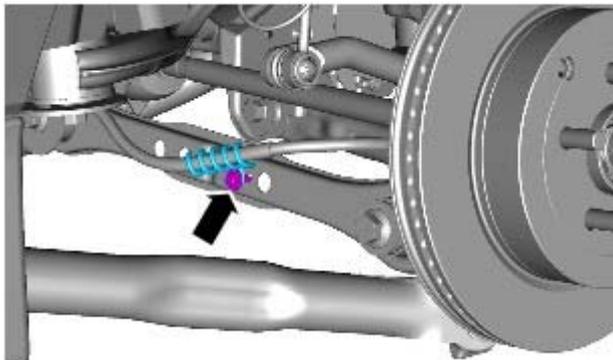
Removal and Installation

### Removal

1.  **WARNING:** Make sure to support the vehicle with axle stands.  
Raise and support the vehicle.

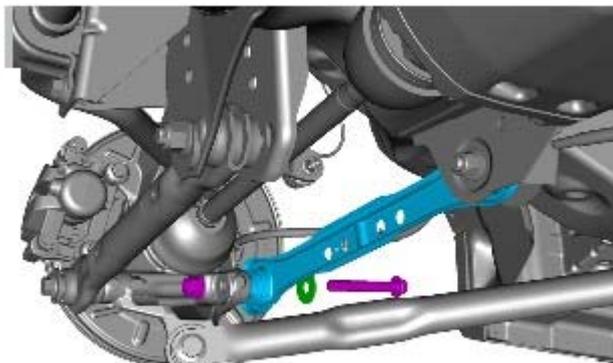
2. Remove the wheel and tire.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).



E78753

3.
  - Discard the bolt.

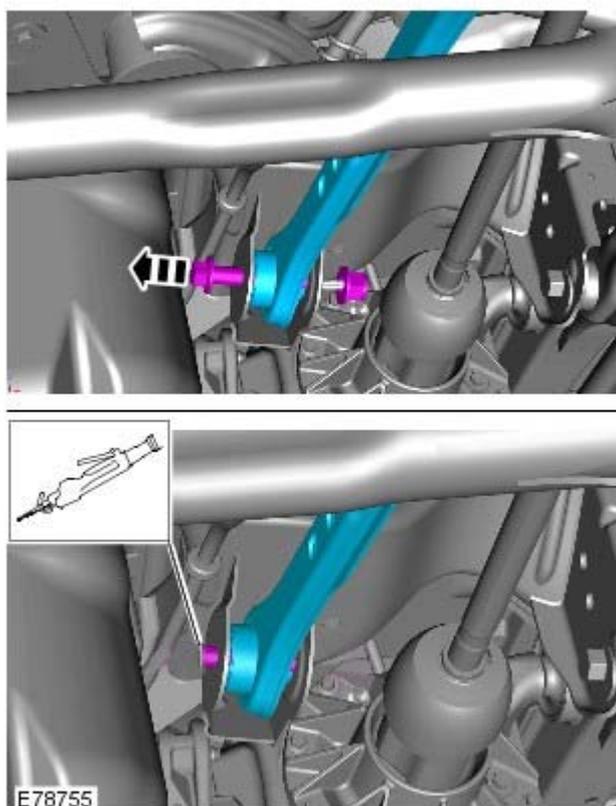


E78754

- 4.

5.
  - Partially release the bolt for access. Cut off the bolt head and withdraw in the opposite direction.
  - On installation, reverse the orientation of the new bolt.
  - Make sure the captive nut and protective shield from the service kit is installed.

6.



## Installation

1. Install the front lower arm.
2.  **CAUTION:** Nuts and bolts must be tightened with the weight of the vehicle on the suspension.  
Install the nuts, bolts and washers, do not tighten at this stage.
3.  **CAUTION:** Nuts and bolts must be tightened with the weight of the vehicle on the suspension.  
Support weight of vehicle on a jack at the rear hub.
4. Tighten the nuts and bolts.  
*Torque: 175 Nm*
5.  **WARNING:** Make sure that a new bolt is installed.  
Install the parking brake cable retaining bolt.  
*Torque: 10 Nm*
6. Install the rear wheel.  
Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

7. Check and if necessary, adjust the rear wheel alignment

## Rear Suspension - Rear Lower Arm

Removal and Installation

### Removal

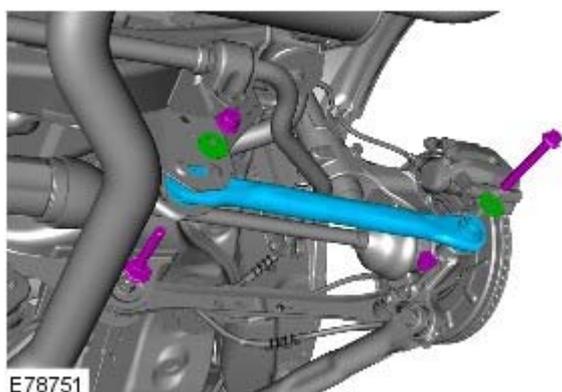
NOTE: Removal steps in this procedure may contain installation details.

1.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

Raise and support the vehicle.

2. Remove the wheel and tire.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).



E78751

3.
  - During installation, do not tighten the nuts and bolts until the 4 wheel alignment procedure has been carried out.
  - *Torque:* 175 Nm

### Installation

1. To install, reverse the removal procedure.
2. Carry out the wheel alignment procedure.

## Rear Suspension - Trailing Arm

Removal and Installation

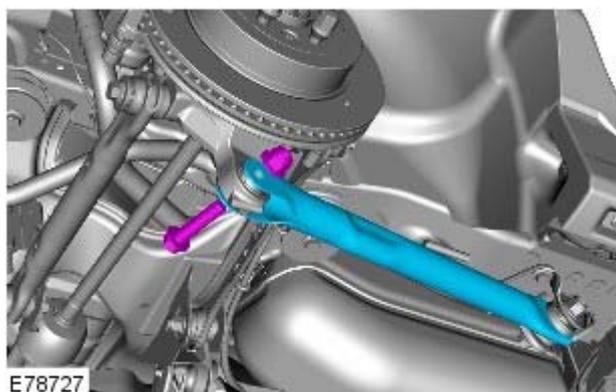
### Removal

1.  **WARNING:** Make sure to support the vehicle with axle stands.  
Raise and support the vehicle.

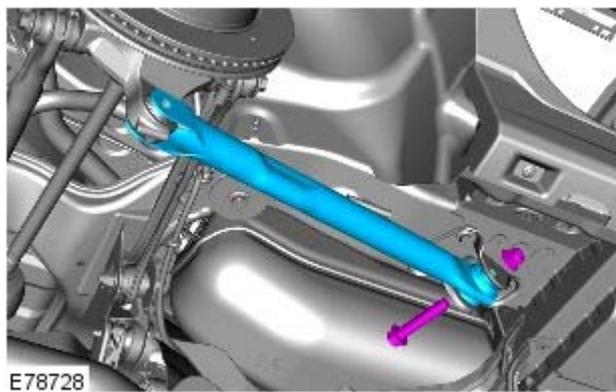
2. Remove the wheel and tire.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

3.



4.



### Installation

1. Install the trailing link.
2. Fit nuts, bolts and washers securing the trailing link to the body and hub, but do not tighten at this stage.

3.  **CAUTION:** Nuts and bolts must be tightened with the weight of the vehicle on the suspension.

Support weight of vehicle on a jack at the rear hub.

4. Tighten the nuts and bolts.

*Torque:* 270 Nm

5. Install the wheel and tire.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

6. Check and if necessary, adjust the rear wheel alignment

## Rear Suspension - Rear Stabilizer Bar

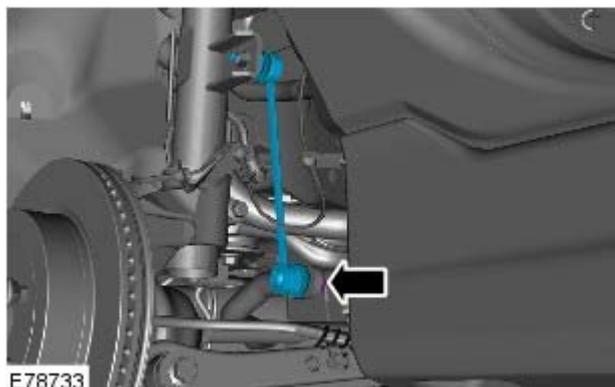
Removal and Installation

### Removal

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

1.  **WARNING:** Make sure to support the vehicle with axle stands.

Raise and support the vehicle.



2. **CAUTIONS:**

 Make sure that the ball joint ball does not rotate.

 Discard the nuts.

Disconnect both rear stabilizer bar links from the stabilizer bar.

*Torque: 60 Nm*

3. Remove the stabilizer bar bushings.

Refer to: [Rear Stabilizer Bar Bushing](#) (204-02 Rear Suspension, Removal and Installation).

4.  **CAUTION:** Note the fitted position of the component prior to removal.

Remove the stabilizer bar.

### Installation

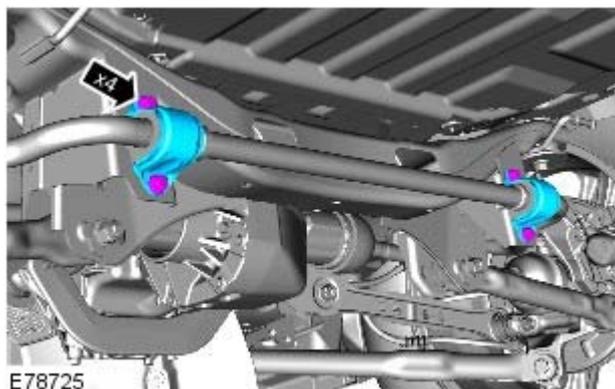
1. To install, reverse the removal procedure.

## Rear Suspension - Rear Stabilizer Bar Bushing

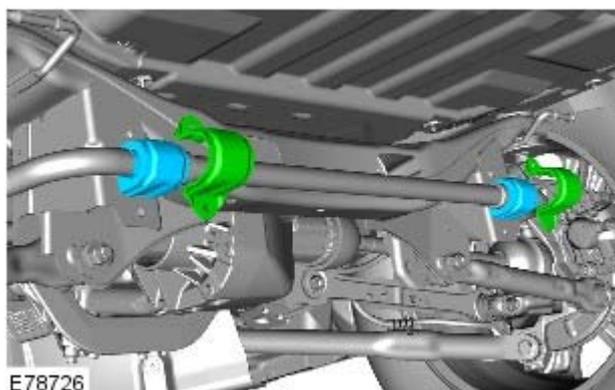
Removal and Installation

### Removal

1.  **WARNING:** Make sure to support the vehicle with axle stands.  
Raise and support the vehicle.



2.  **CAUTION:** Discard the bolts.  
**NOTE:** Muffler has been removed for clarity.



- 3.

### Installation

1.  **CAUTION:** Make sure that the component is clean, free of foreign material and lubricant.  
Install the stabilizer bar bushings.
2.  **CAUTION:** Make sure that the component is clean, free of foreign material and lubricant.  
Install the stabilizer bar clamps.
3.  **CAUTION:** Make sure that new bolts are installed.  
Install the bolts, but do not tighten fully at this stage.
4.  **CAUTION:** Nuts and bolts must be tightened with the weight of the vehicle on the suspension.

Tighten the stabilizer bar clamp bolts.

*Torque:* 60 Nm

## Rear Suspension - Rear Stabilizer Bar Link

Removal and Installation

### Removal

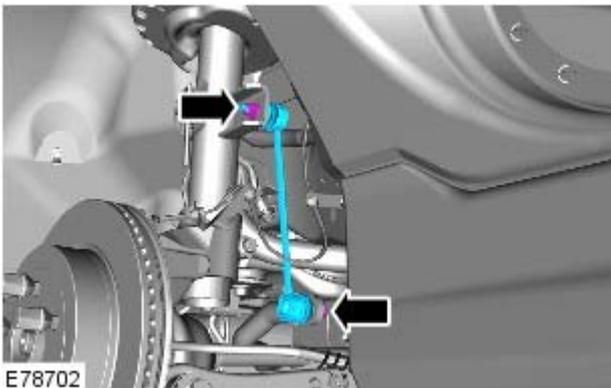
NOTE: Removal steps in this procedure may contain installation details.

1.  **WARNING:** Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

2. Remove the wheel and tire.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).



3. **CAUTIONS:**

 Make sure that the ball joint ball does not rotate.

 Discard the nuts.

*Torque:* 60 Nm

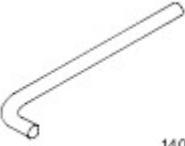
### Installation

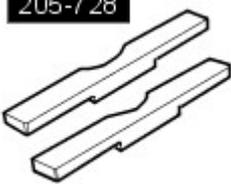
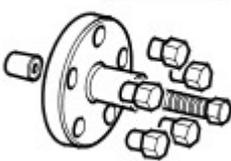
1. To install, reverse the removal procedure.

## Rear Suspension - Wheel Knuckle

Removal and Installation

### Special Tool(s)

 <p>14039</p>	204-159 Lever, Wheel Knuckle
 <p>204-528/2</p> <p>E87694</p>	204-528/2 Remover/Installer, Bushing
 <p>204-620-01</p> <p>E82678</p>	204-620-01 Installer, Wheel Knuckle Bushing
 <p>204-620-02</p> <p>E82677</p>	204-620-02 Remover/Installer, Wheel Knuckle Bushing
 <p>204-620-03</p> <p>E82676</p>	204-620-03 Remover, Wheel Knuckle Bushing
 <p>205-725</p> <p>E87690</p>	205-725 Remover/Installer, Wheel Hub
 <p>205-726</p> <p>E87692</p>	205-726 Remover/Installer, Wheel Hub Bearing

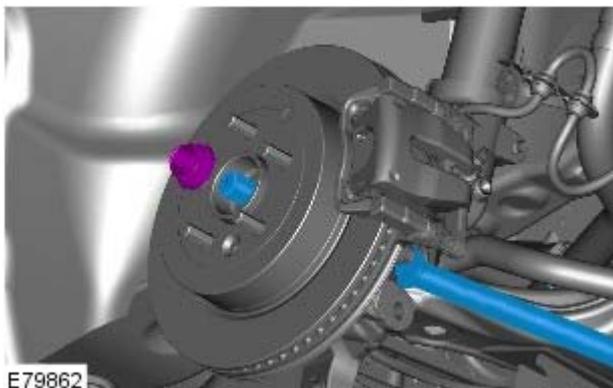
 <p><b>205-728</b> E87693</p>	<p>205-728 Remover/Installer, Wheel Hub</p>
 <p><b>205-802/5</b> E87691</p>	<p>205-802/5 Remover, Wheel Hub/Bearing</p>
 <p><b>205-857</b> E79462</p>	<p>205-857 Remover, Halfshaft</p>
 <p><b>LR-121</b> E87232</p>	<p>LR-121 Hydraulic Cylinder 10t</p>

**Removal**

1.  **WARNING:** Make sure to support the vehicle with axle stands.  
Raise and support the vehicle.

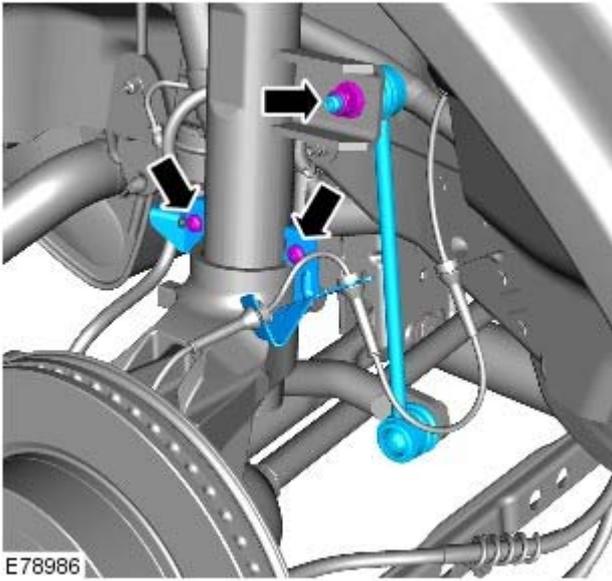
2. Remove the wheel and tire.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).



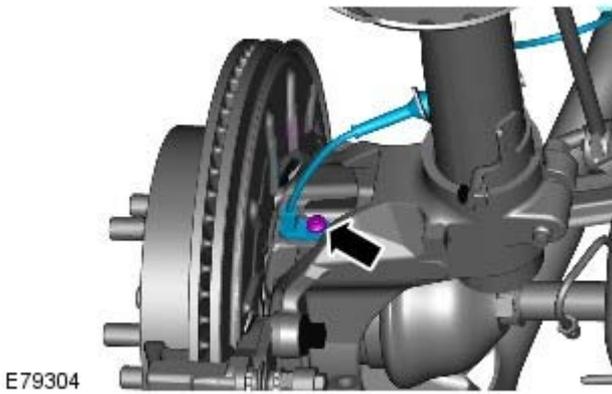
3.  **CAUTION:** Do not use a hammer to detach the halfshaft from the hub assembly, failure to follow this instruction may result in damage to the halfshaft.

Remove and discard the rear halfshaft nut.

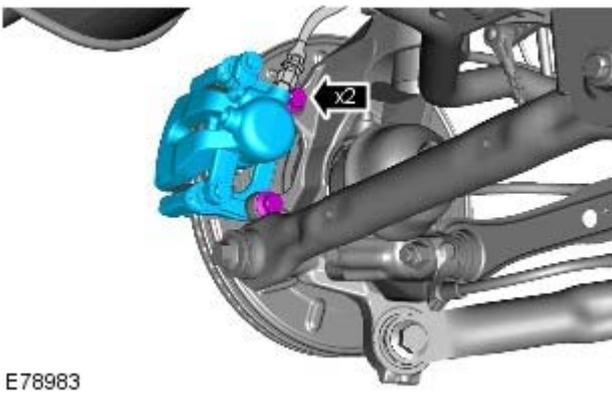


4.  CAUTION: Discard the nut.

NOTE: RH illustration shown, LH is similar.

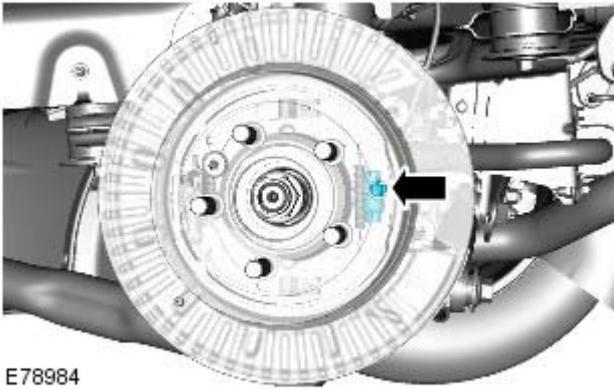


5. Release the wheel speed sensor from the wheel knuckle.

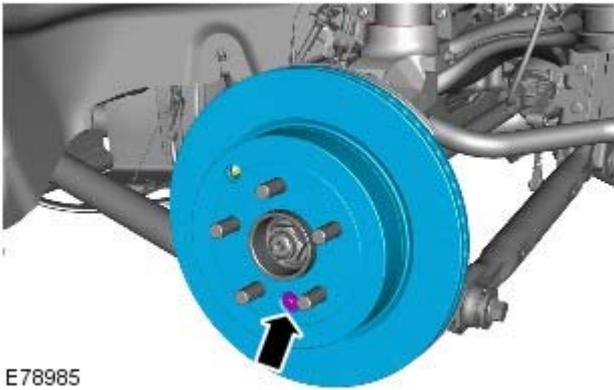


6.  CAUTION: Make sure that no load is placed on the brake hose.

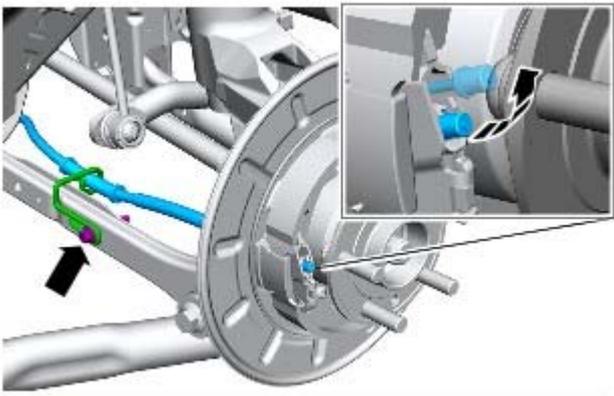
- Tie the brake caliper and brake caliper anchor plate assembly aside.



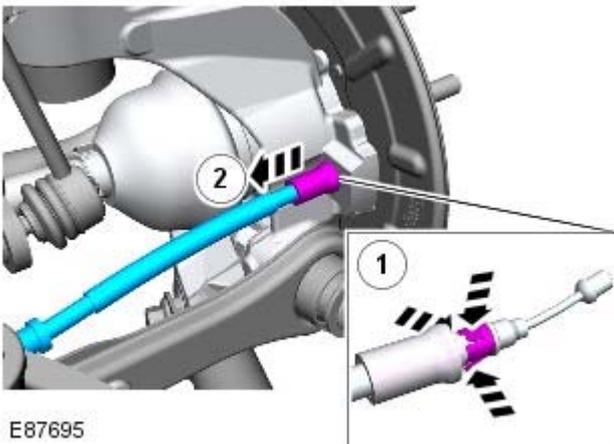
7.
  - Release the park brake shoe adjustment.

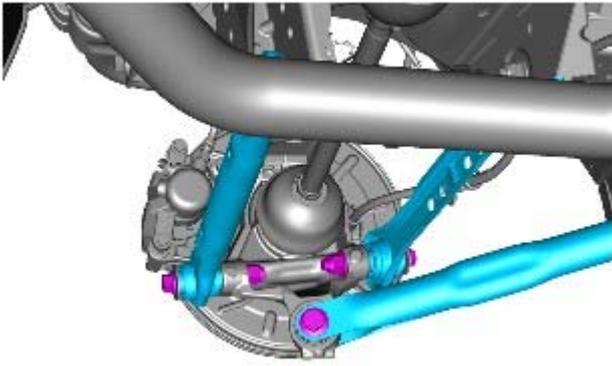


8. Remove the brake disc.

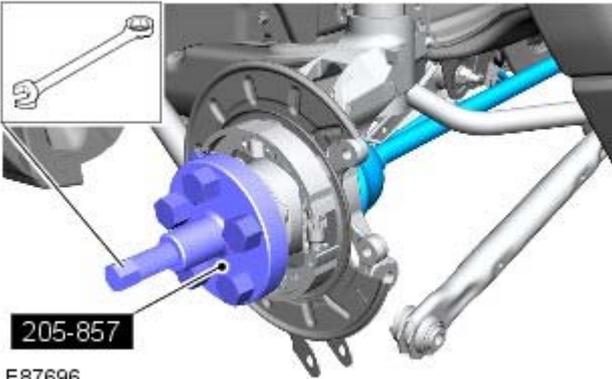


9.
  - Release the parking brake cable from the wheel knuckle.
  - Collect the clip.

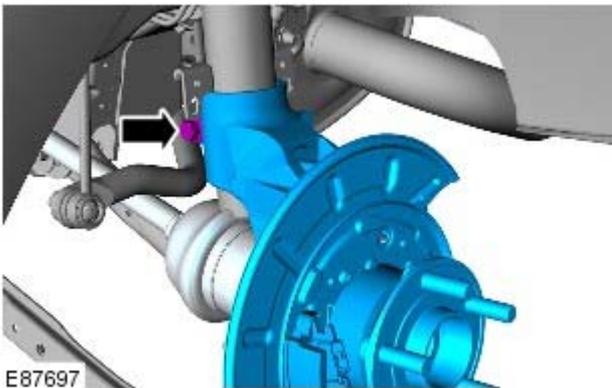




E79861



E87696



E87697

10.

11. CAUTIONS:

 Do not allow halfshafts to hang unsupported at one end or joint damage will occur.

 Do not store or install halfshafts with joints at maximum articulation or damage may occur to the joint.

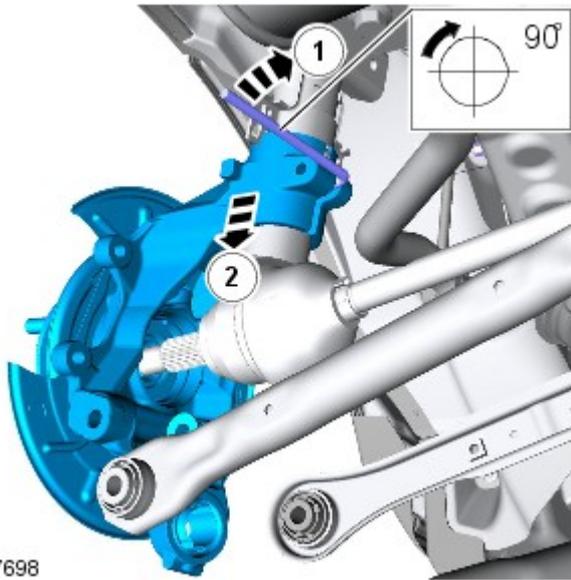
 Angularly Adjusted Roller (AAR) joints, used at the inboard end of some halfshafts have no internal retaining mechanism and can separate.

- Release the rear halfshaft.

*Special Tool(s):* [205-857](#)

- Tie the rear halfshaft aside.

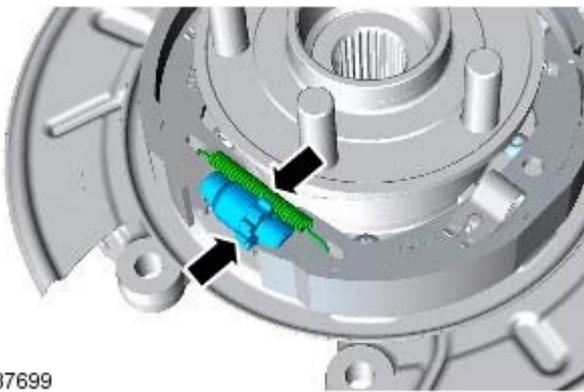
12. Remove and discard the wheel knuckle clamping bolt.



E87698

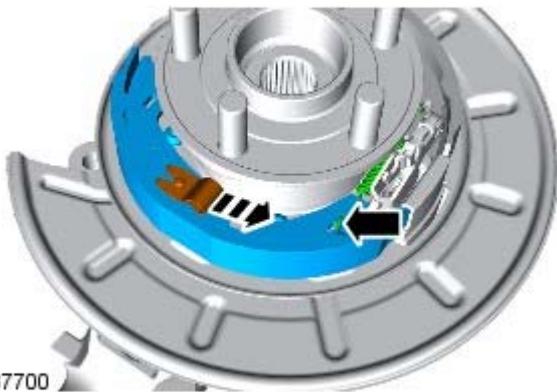
13. With assistance, remove the wheel knuckle assembly.

*Special Tool(s):* [204-159](#)



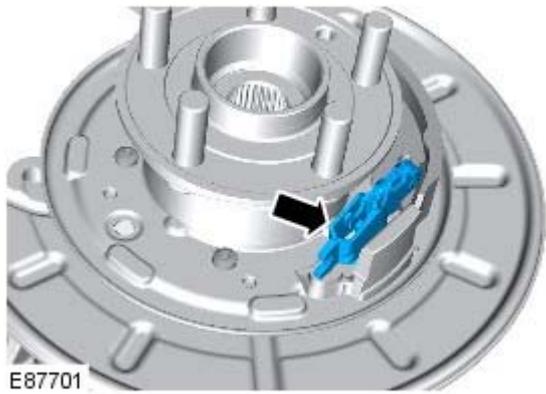
E87699

14. NOTE: Do not disassemble further if the component is removed for access only.

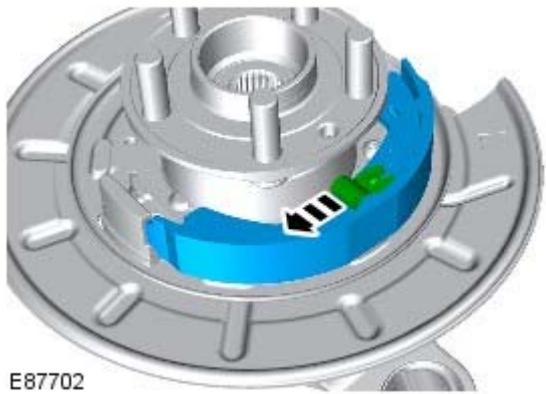


E87700

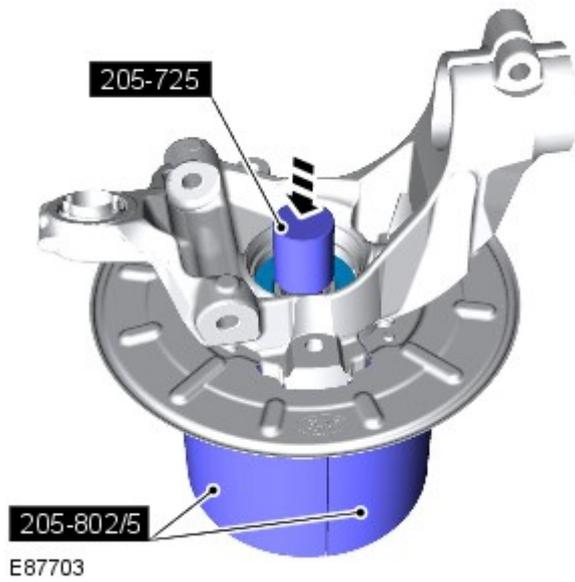
15.



16.



17.



18. **NOTE:** Bearing damage is unavoidable during this operation.

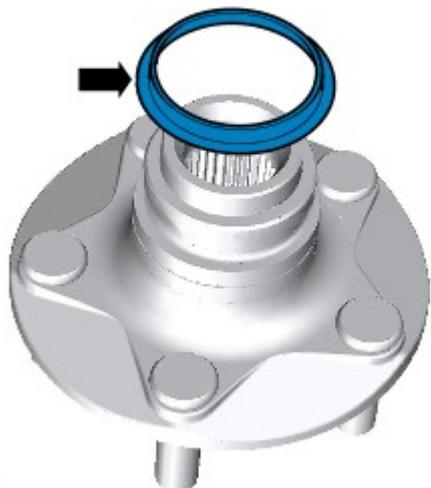
- Position the wheel knuckle assembly in a press and support on special tool.

*Special Tool(s):* [205-802/5](#)

- Press the drive flange out of the wheel knuckle assembly using special tool.

*Special Tool(s):* [205-725](#)

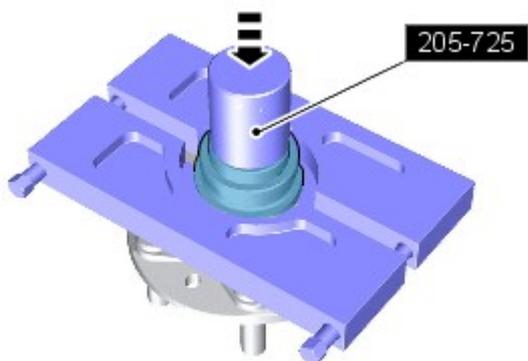
19. NOTE: The inner bearing track will remain on the drive flange.



E87704

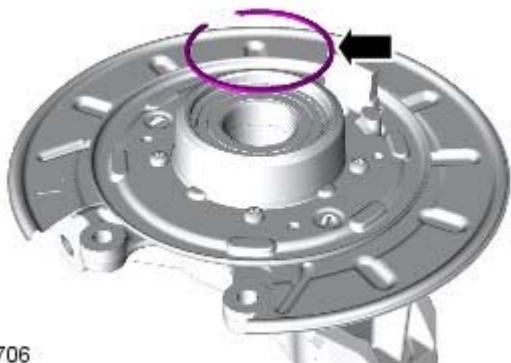
- 20.
- Clamp both halves of a suitable bearing separator around the inner bearing track and position the drive flange in a press.
  - Using the special tool, press the drive flange from the inner bearing track.

*Special Tool(s):* [205-725](#)

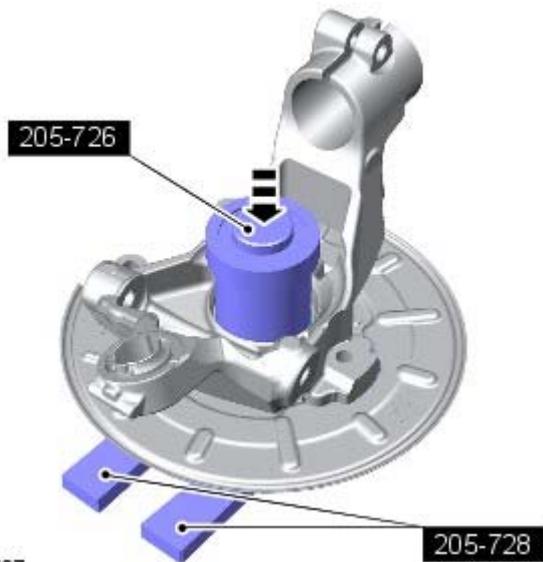


E87705

21. Remove the circlip from the wheel knuckle assembly.



E87706



E87707

22.

- Position the wheel knuckle assembly in a press and support on special tools.

*Special Tool(s):* [205-728](#)

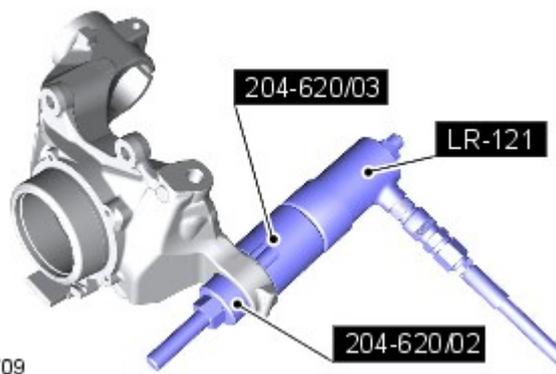
- Press the wheel bearing out of the wheel knuckle assembly using special tool.

*Special Tool(s):* [205-726](#)



E87708

23. Remove the brake backing plate.



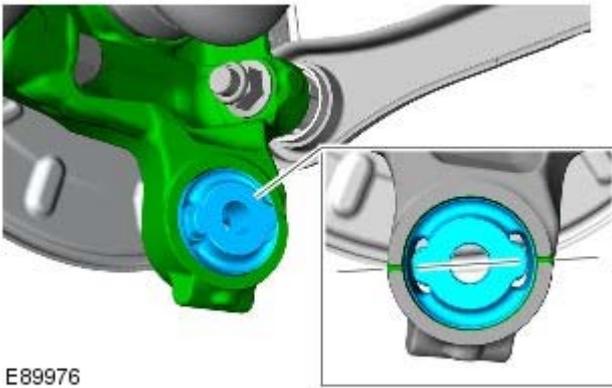
E87709

24.  **CAUTION:** Mark the components to aid installation.

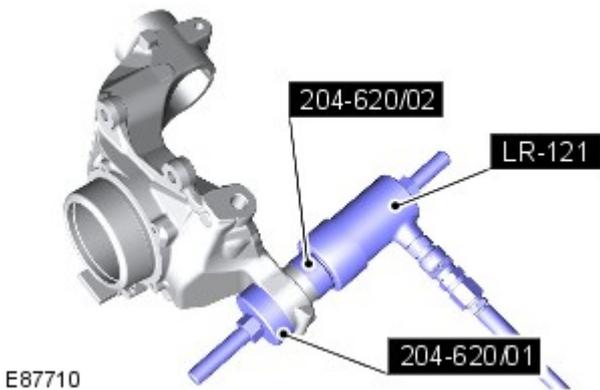
Remove the wheel knuckle bushing.

*Special Tool(s):* [LR-121](#), [204-620-02](#), [204-620-03](#)

## Installation



1.  CAUTION: Make sure that the installation marks are aligned.

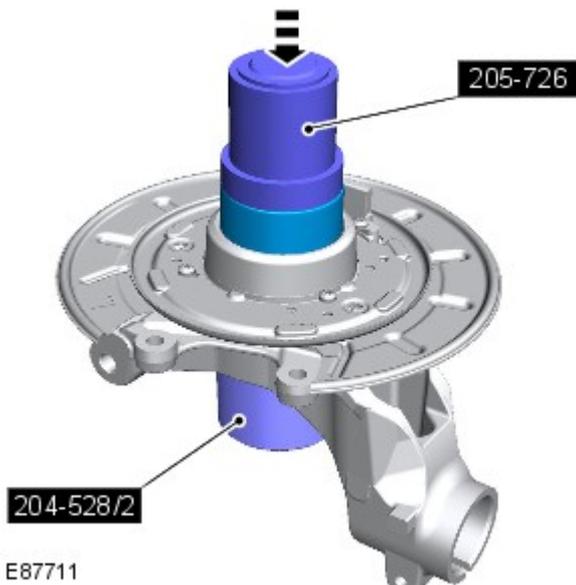


2.  CAUTION: Make sure the correct special tool is used to install the bushings to the correct depth.

Install the wheel knuckle bushing.

*Special Tool(s):* [LR-121](#), [204-620-01](#), [204-620-02](#)

3. Install the brake backing plate.



4.  CAUTION: One side of the bearing is magnetic. The magnetic side is identifiable by the application of a matt black finish. The magnetic side must face towards the inboard side of the vehicle. Before fitting the bearing, make sure the magnetic face is clean. The bearing must be handled with extreme care.

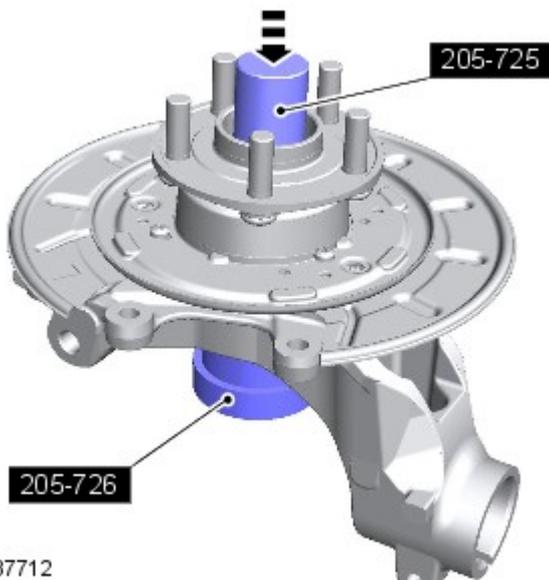
- Position the wheel knuckle assembly in a press and support on special tool.

*Special Tool(s):* [204-528/2](#)

- Press the new wheel bearing into the wheel knuckle assembly using special tool.

*Special Tool(s):* [205-726](#)

5. Install the circlip to the wheel knuckle assembly.



E87712

6.

- Position the wheel knuckle assembly in a press and support on special tool.

*Special Tool(s):* [205-726](#)

- Press the drive flange into the wheel knuckle assembly using special tool.

*Special Tool(s):* [205-725](#)

7.  **WARNING:** Do not use compressed air to clean brake components. Dust from friction materials can be harmful if inhaled.
- Clean the backing plate and apply grease to the brake shoe contacts.

8. Clean the adjuster and set it to its minimum extension.

9.

- Install the secondary brake shoe.
- Install the hold-down spring and retaining pin.

10.  **WARNING:** Make sure the return spring and the adjuster spring are correctly installed to the primary shoe.

 **CAUTION:** Make sure the brake shoe spring is not over stretched.

- Install the spreader plate and the spring.
- Install the primary brake shoe.
- Install the return spring.
- Install the hold-down spring and retaining pin.

11.  **CAUTION:** Make sure the brake shoe spring is not over stretched.

Install the brake shoe adjuster.

12. With assistance, install the wheel knuckle assembly.

*Special Tool(s):* [204-159](#)

13. Install a new wheel knuckle clamping bolt.

*Torque:* [110 Nm](#)

14. Install the rear halfshaft to the drive flange.

15.  CAUTION: Only tighten the nut finger tight at this stage.  
Install a new rear halfshaft nut, do not fully tighten at this stage.

16.  CAUTION: Only tighten the nuts and bolts finger tight at this stage.  
Connect both lower arms to the hub assembly, do not fully tighten at this stage.

17.  CAUTION: Only tighten the nut and bolt finger-tight at this stage.  
Connect the trailing arm to the hub assembly, do not fully tighten at this stage.

18.  CAUTION: Make sure that the clip is correctly located.
- Connect the parking brake cable.
  - Secure the parking brake cable.

19.  CAUTION: Make sure that the mating faces are clean and free of foreign material.

Install the brake disc.

*Torque: 35 Nm*

20. CAUTIONS:

 Make sure that the mating faces are clean and free of foreign material.

 Make sure that the brake hose is not twisted and is correctly located.

Secure the brake caliper and anchor plate to the wheel knuckle.

*Torque: 110 Nm*

21. Install the rear wheel speed sensor to the wheel knuckle.

*Torque: 5 Nm*

22. Install the brake line and wheel speed sensor brackets.

*Torque: 10 Nm*

23.  WARNING: Make sure that a new nut is installed.

Secure the stabilizer bar link.

*Torque: 60 Nm*

24. Support the weight of the vehicle using a jack under the rear hub.

25. CAUTIONS



Nuts and bolts must be tightened with the weight of the vehicle on the suspension.



Do not use air tools to install the nut. Failure to follow this instruction may result in damage to the component.

- Tighten both lower arm nuts and bolts.

*Torque: 175 Nm*

- Tighten the trailing arm nut and bolt.

*Torque: 270 Nm*

- Tighten the rear halfshaft nut.

*Torque:*

Stage 1: 330 Nm

Stage 2: 30°

- Stake the hub nut.

26. Adjust the parking brake.

Refer to: [Parking Brake Cable Adjustment](#) (206-05 Parking Brake and Actuation, General Procedures).

27. Install the wheel and tire.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

## Rear Suspension - Rear Shock Absorber

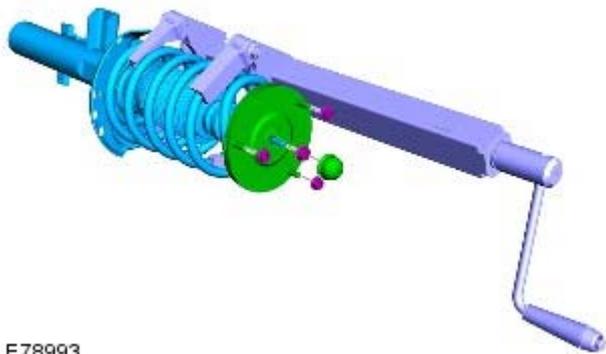
Removal and Installation

### Removal

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

1.  **WARNING:** Make sure to support the vehicle with axle stands.  
Raise and support the vehicle.
2. Remove the shock absorber and spring assembly.

Refer to: [Shock Absorber and Spring Assembly](#) (204-02 Rear Suspension, Removal and Installation).



E78993

3. **WARNINGS:**

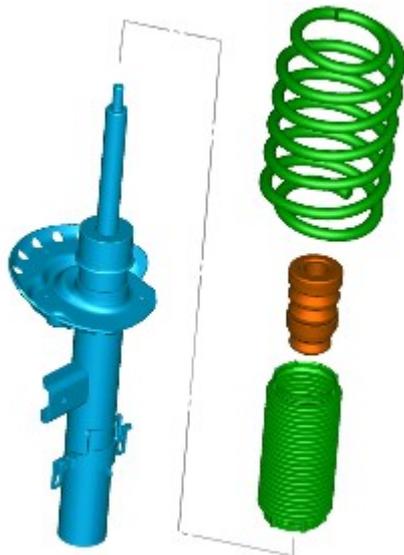
 Always follow the spring compressor manufacturer's instructions.

 Take extra care when handling the compressed spring.

NOTE: Make sure that this component is installed to the noted removal position.

Remove the spring.

4. Remove the shock absorber damper rod components.



E78994

### Installation

1. Install the shock absorber shaft dust shield, spring aid and gaiter.
2.  **WARNING:** Take extra care when handling the compressed spring.

CAUTIONS:



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



Make sure that the mating faces are clean and free of foreign material.

Install the spring.

3. Install the spring inclination spacer and top mount, install the nut but do not fully tighten at this stage.
4. Carefully release the spring tension.
5. Tighten the nut.

*Torque: 80 Nm*

6. Install the cap.
7. Install the shock absorber and spring assembly.

Refer to: [Shock Absorber and Spring Assembly](#) (204-02 Rear Suspension, Removal and Installation).

## Rear Suspension - Shock Absorber and Spring Assembly

Removal and Installation

### Removal

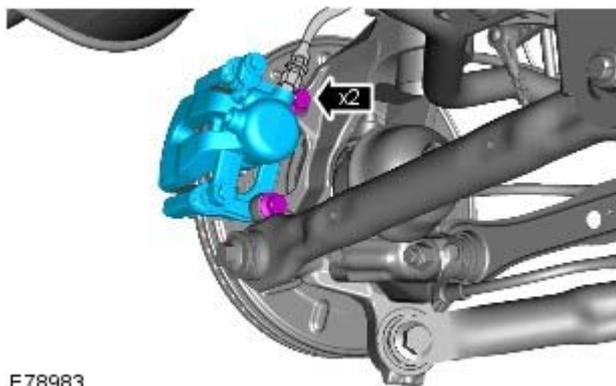
1. Remove the rear quarter trim panel.

Refer to: [Rear Quarter Trim Panel](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

2.  **WARNING:** Make sure to support the vehicle with axle stands.  
Raise and support the vehicle.

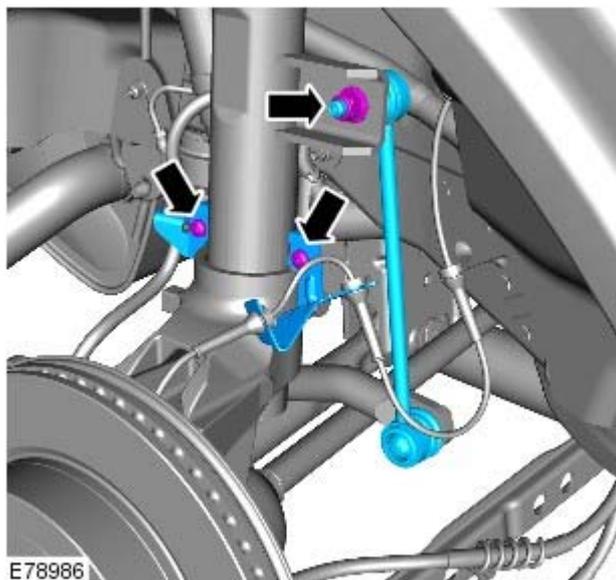
3. Remove the wheel and tire.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).



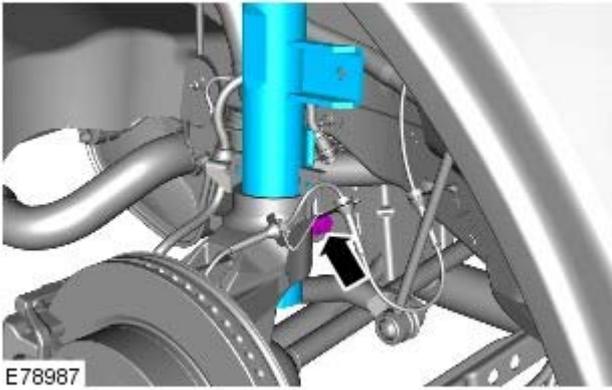
E78983

4.  **CAUTION:** Make sure that no load is placed on the brake hose.

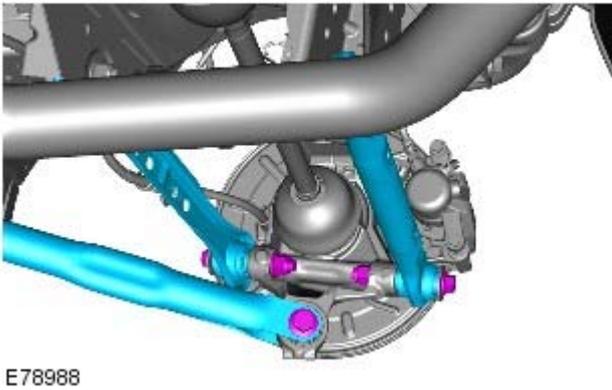


E78986

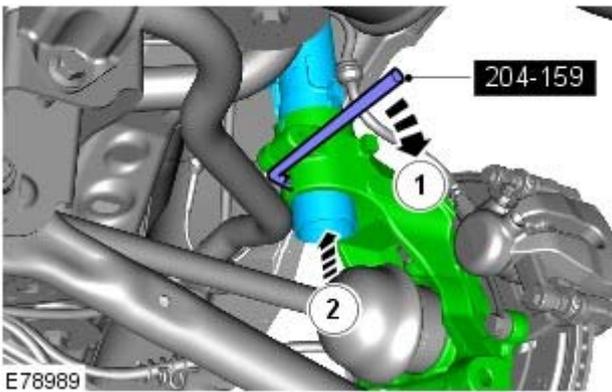
5.  **CAUTION:** Discard the nut.



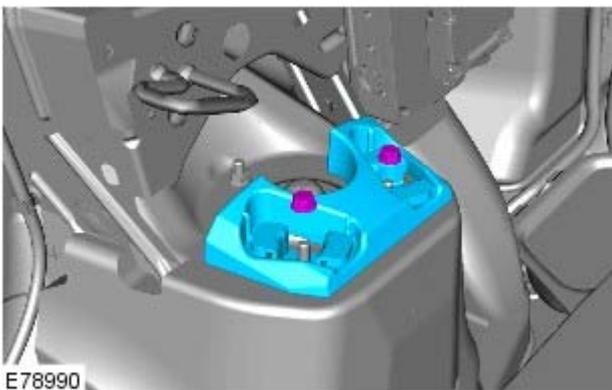
6. Remove and discard the bolt from the rear wheel knuckle.



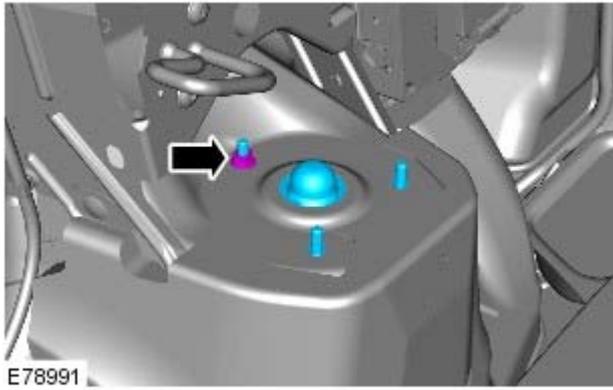
- 7.



- 8.



9.  CAUTION: Make sure that no components catch.



10.

## Installation

1.  **CAUTION:** Make sure that new bolts are installed.  
Install the shock absorber to the hub assembly.  
  
*Torque: 110 Nm*
  
2. Install the shock absorber and spring assembly.  
  
*Torque: 32 Nm*
  
3.  **CAUTION:** Nuts and bolts must be tightened with the weight of the vehicle on the suspension.  
Install the lower suspension arms.
  
4. Install the brake line and wheel speed sensor brackets.  
  
*Torque: 10 Nm*
  
5.  **WARNING:** Make sure that a new nut is installed.  
Secure the stabilizer bar link.  
  
*Torque: 60 Nm*
  
6. **CAUTIONS:**  
  
 Make sure that the mating faces are clean and free of foreign material.  
  
 Make sure that the brake hose is not twisted and is correctly located.  
  
Secure the brake caliper and anchor plate to the wheel knuckle.  
  
*Torque: 110 Nm*
  
7.  **CAUTION:** Nuts and bolts must be tightened with the weight of the vehicle on the suspension.

Support weight of vehicle on a jack at the rear hub.

8. Tighten the trailing arm nut and bolt.

*Torque:* 270 Nm

9. Tighten the front and rear lower arm nuts and bolts.

*Torque:* 175 Nm

10. Install the wheel and tire.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

11. Install the rear quarter trim panel.

Refer to: [Rear Quarter Trim Panel](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

## Rear Suspension - Wheel Knuckle Rear Bushing

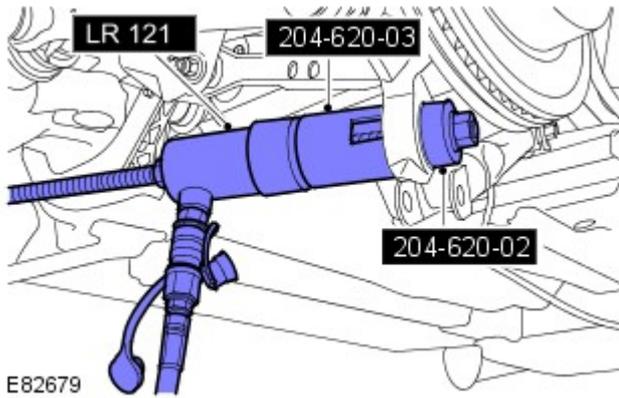
Removal and Installation

### Special Tool(s)

<p><b>204-620-01</b></p>  <p>E82678</p>	<p>204-620-01 Installer, Wheel Knuckle Bushing</p>
<p><b>204-620-02</b></p>  <p>E82677</p>	<p>204-620-02 Remover/Installer, Wheel Knuckle Bushing</p>
<p><b>204-620-03</b></p>  <p>E82676</p>	<p>204-620-03 Remover, Wheel Knuckle Bushing</p>
<p><b>LR-121</b></p>  <p>E87232</p>	<p>LR-121 Hydraulic Cylinder 10t</p>

### Removal

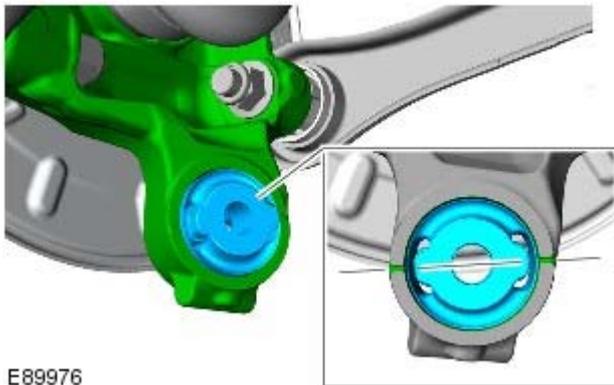
1.  **WARNING:** Make sure to support the vehicle with axle stands.  
Raise and support the vehicle.
2. Remove the wheel and tire.  
  
Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).
3. Remove the trailing arm.  
  
Refer to: [Trailing Arm](#) (204-02 Rear Suspension, Removal and Installation).



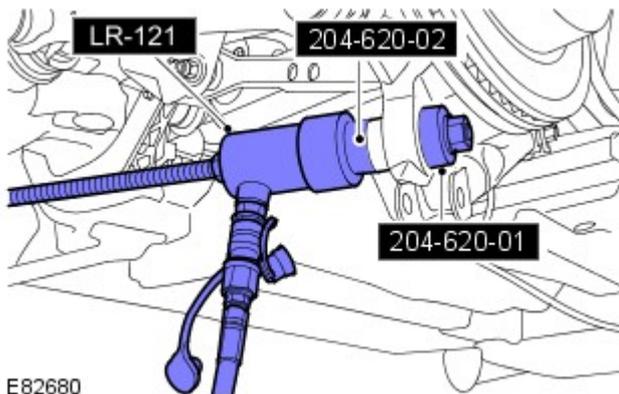
4.  **CAUTION:** Mark the components to aid installation.  
Remove the bushing.

*Special Tool(s):* [LR-121](#), [204-620-02](#), [204-620-03](#)

## Installation



1.  **CAUTION:** Make sure that the installation marks are aligned.



2.  **CAUTION:** Make sure the correct special tool is used to install the bushings to the correct depth.  
Install the bushing.

*Special Tool(s):* [LR-121](#), [204-620-01](#), [204-620-02](#)

3. Install the trailing arm.

Refer to: [Trailing Arm](#) (204-02 Rear Suspension, Removal and Installation).

4. Install the wheel and tire.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).