

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Ball Joint-to-Control Arm Nuts	150 N·m	111 lb ft
Ball Joint-to-Knuckle Nut	55 N·m	41 lb ft
Control Arm Front Mounting Bolt	110 N·m	81 lb ft
Control Arm Rear Mounting Bolts	110 N·m	81 lb ft
Crossmember Assembly Front to Body Nut	150 N·m	111 lb ft
Crossmember Assembly Rear to Body Nut	150 N·m	111 lb ft
Drive Axle-to-Hub Caulking Nut	300 N·m	221 lb ft
Engine Mounting Reaction Rod Bolts	60 N·m	44 lb ft
Knuckle Assembly to Front Strut Bolts	100 N·m	74 lb ft
Piston Rod Nut	60 N·m	44 lb ft
Power Steering Pipe Fittings	22 N·m	16 lb ft
Splash Shield-to-Steering Knuckle Screws	4 N·m	35 lb in
Stabilizer Shaft-to-Link Nut	50 N·m	37 lb ft
Strut Assembly-to-Body Nuts	60 N·m	44 lb ft
Tie Rod End Ball Joint Nut	45 N·m	33 lb ft
U-clamp Bolt	25 N·m	18 lb ft

[2008 Chevrolet Aveo](#) | [Aveo, Wave, G3, Barina \(VIN S/T\) Service Manual](#) | [Suspension](#) | [Front Suspension](#) | [Specifications](#)
| Document ID: 1283759

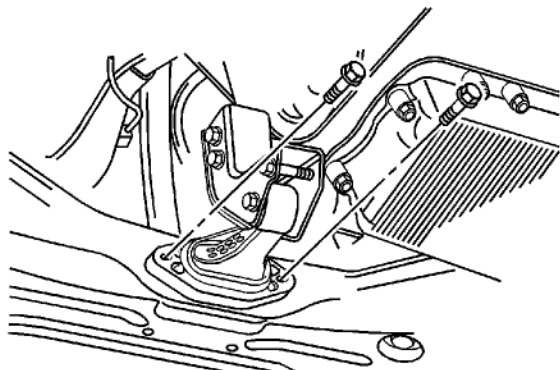
General Specifications

Application	Specification	
	Metric	English
Center of Front Wheel to Bottom of Front Wheel Well	344 mm	13.5 in
Center of Rear Wheel to Bottom of Rear Wheel Well	343 mm	13.5 in

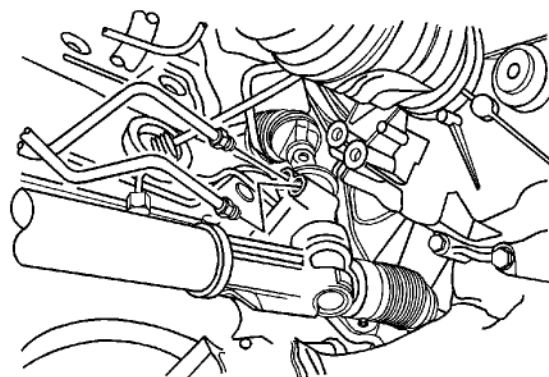
Front Suspension Crossmember Replacement

Removal Procedure

1. Raise and support the vehicle. Refer to [Lifting and Jacking the Vehicle](#) .

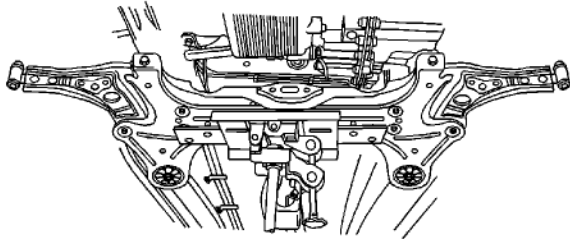


2. Remove the front tire and wheel assemblies. Refer to [Tire and Wheel Removal and Installation](#) .
3. Remove the control arm ball joint and stabilizer shaft link nut, lower.
4. Remove the tie rod end ball joint.
5. Remove the engine mounting reaction rod bolts.



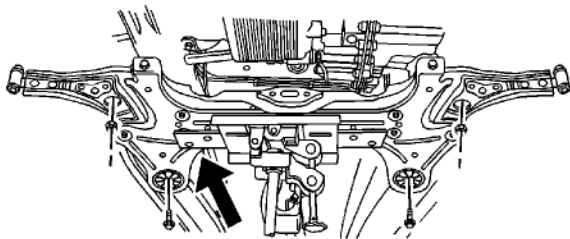
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6. Drain the power steering fluid.
7. Remove the power steering pipe fittings.
8. Remove the intermediate shaft lower joint.



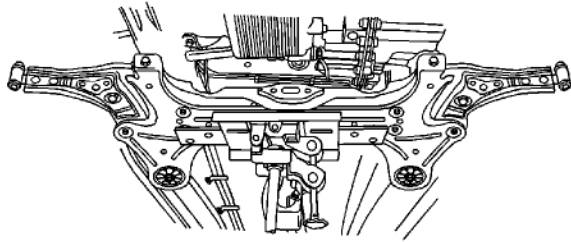
Caution: Failure to support crossmember can cause crossmember to drop to the ground when crossmember mounting bolts are removed.

9. Remove the crossmember assembly.



10. Remove the stabilizer bar, power steering gear set, and control arm from the crossmember.

Installation Procedure



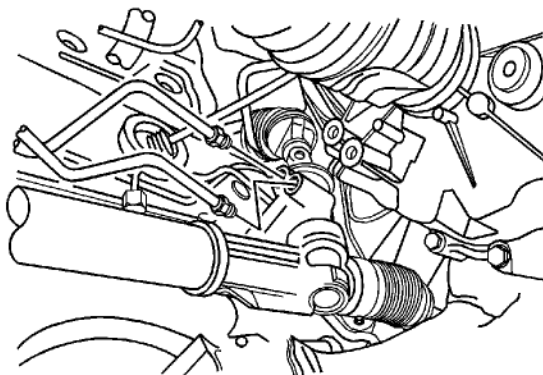
1. Install the stabilizer bar, power steering gear set, and control arm from the crossmember.

Notice: Refer to [Fastener Notice](#) in the Preface section.

2. Install the crossmember assembly front to body nut and the crossmember assembly rear to body bolt.

Tighten

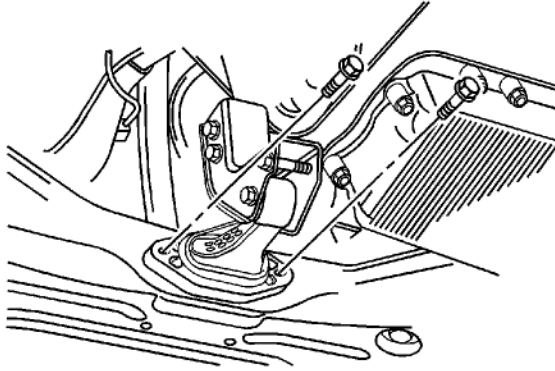
Tighten the crossmember assembly front to body nut and rear to body bolt to 150 N·m (111 lb ft).



3. Connect the intermediate shaft lower joint and power steering pipe fittings.

Tighten

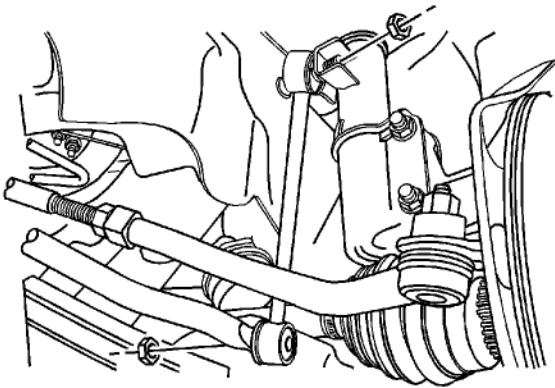
Tighten the power steering pipe fittings to 22 N·m (16 lb ft).



4. Install the engine mounting reaction rod bolts.

Tighten

Tighten the engine mounting reaction rod bolts to 60 N·m (44 lb ft).



5. Install the tie rod end ball joint nut.

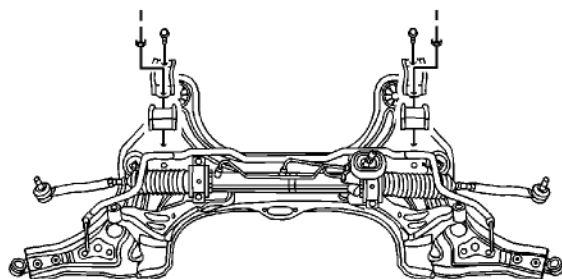
Tighten

Tighten the tie rod end ball joint nut to 45 N·m (33 lb ft).

6. Install the control arm ball joint and stabilizer shaft link nut, lower.
7. Install the front tire and wheel assemblies. Refer to [Tire and Wheel Removal and Installation](#) .
8. Lower the vehicle.

Stabilizer Shaft Replacement

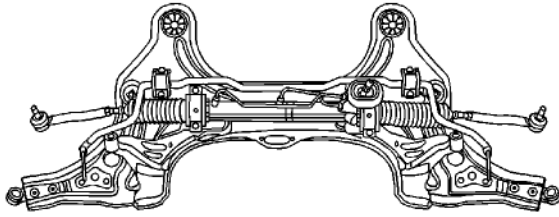
Removal Procedure



1. Remove the crossmember assembly. Refer to [Front Suspension Crossmember Replacement](#).
2. Remove the stabilizer bar from the crossmember assembly by removing the U-clamp bolts.

Installation Procedure

Notice: Refer to [Fastener Notice](#) in the Preface section.



1. Install the U-clamps and the stabilizer bar to the crossmember.

Tighten

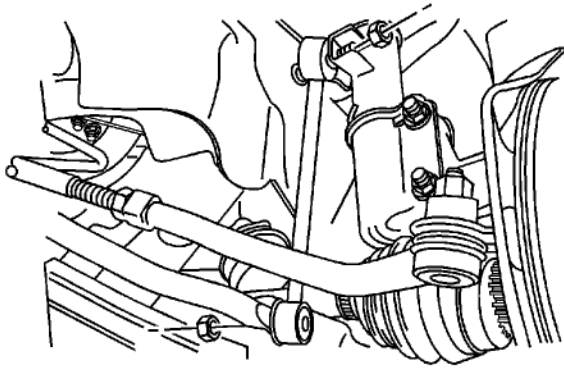
Tighten the U-clamp bolts to the crossmember assembly to 25 N·m (18 lb ft).

2. Install the crossmember assembly. Refer to [Front Suspension Crossmember Replacement](#) .

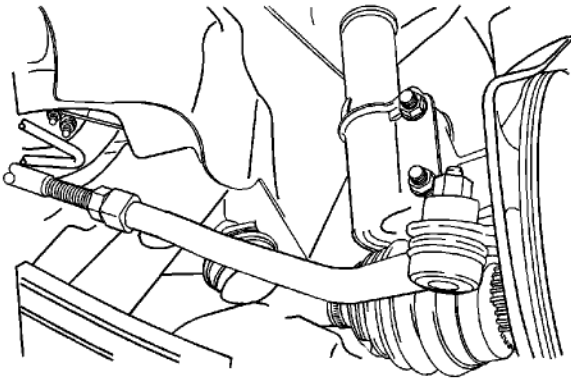
Stabilizer Shaft Link Replacement

Removal Procedure

Notice: Refer to [Vehicle Lifting and Jacking Notice](#) in the Preface section.



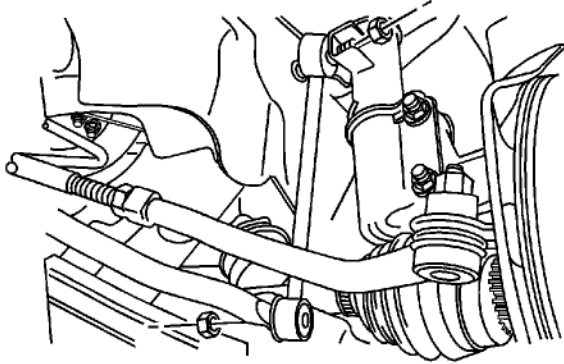
1. Lift and suitably support the vehicle, allowing the front suspension to hang free.
2. Remove the front wheel. Refer to [Tire and Wheel Removal and Installation](#) .
3. Remove the stabilizer shaft-to-knuckle nut and the shaft-to-link nut.



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4. Disconnect the stabilizer shaft from the knuckle by removing the stabilizer shaft link assembly.

Installation Procedure



1. Install the stabilizer shaft into the vehicle.

Notice: Refer to [Fastener Notice](#) in the Preface section.

2. Install the stabilizer shaft-to-knuckle nut and the shaft-to-link nut.

Tighten

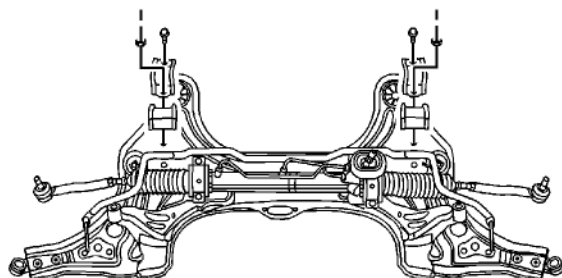
Tighten the stabilizer shaft link nuts to 50 N·m (37 lb ft).

3. Install the front wheel. Refer to [Tire and Wheel Removal and Installation](#) .
4. Lower the vehicle.

Stabilizer Shaft Insulator Replacement

Removal Procedure

1. Raise and support the vehicle. Use jacks in order to support the front suspension crossmember. Refer to [Lifting and Jacking the Vehicle](#).

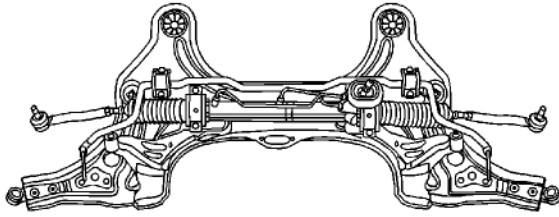


2. Lower the front suspension crossmember slightly in order to access the stabilizer shaft insulator brackets. Refer to [Front Suspension Crossmember Replacement](#).
3. Remove the bolts from the stabilizer shaft insulator brackets.
4. Remove the brackets from the stabilizer shaft insulators.
5. Remove the stabilizer shaft insulators.
6. Clean the stabilizer shaft.

Installation Procedure

1. Install the insulators to the stabilizer shaft.
2. Install the brackets to the stabilizer shaft insulators.

Notice: Refer to [Fastener Notice](#) in the Preface section.



3. Install the bolts to the stabilizer shaft insulator brackets.

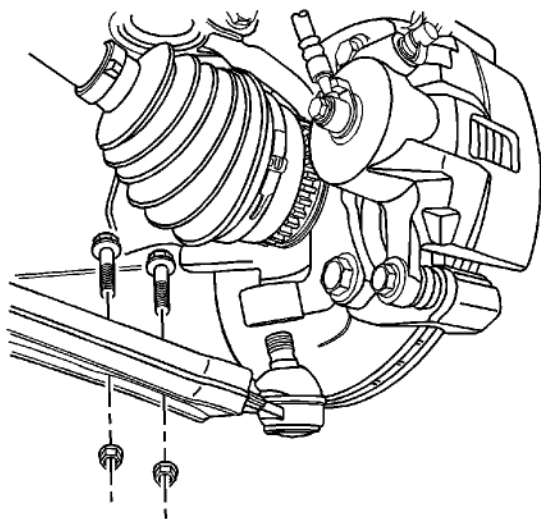
Tighten

Tighten the stabilizer shaft insulator bracket bolts to 25 N·m (18 lb ft).

4. Raise and install the front suspension crossmember. Refer to [Front Suspension Crossmember Replacement](#).
5. Remove the jacks and lower the vehicle.

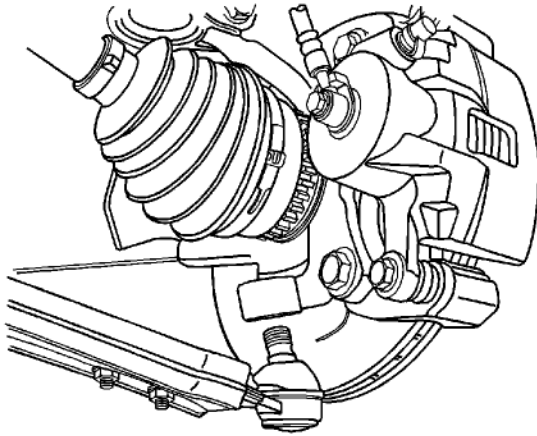
Lower Control Arm Ball Joint Replacement

Disassembly Procedure



1. Raise and support the vehicle. Refer to [Lifting and Jacking the Vehicle](#) .
2. Place the jackstands under the frame of the vehicle and lower the vehicle slightly so the weight of the vehicle rests on the frame and not on the control arms.
3. Remove the wheel. Refer to [Tire and Wheel Removal and Installation](#) .
4. Remove the control arm. Refer to [Control Arm Replacement](#) .
5. Remove the ball joint mounting nuts and bolts.

Assembly Procedure



1. Connect the ball joint to the control arm with the mounting bolts.

Notice: Refer to [Fastener Notice](#) in the Preface section.

2. Install the nuts to secure the bolts from below the control arm.

Tighten

Tighten the ball joint-to-control arm nuts to 150 N·m (111 lb ft).

3. Install the control arm. Refer to [Control Arm Replacement](#) .
4. Install the front wheel. Refer to [Tire and Wheel Removal and Installation](#) .
5. Remove the jackstands.
6. Lower the vehicle.

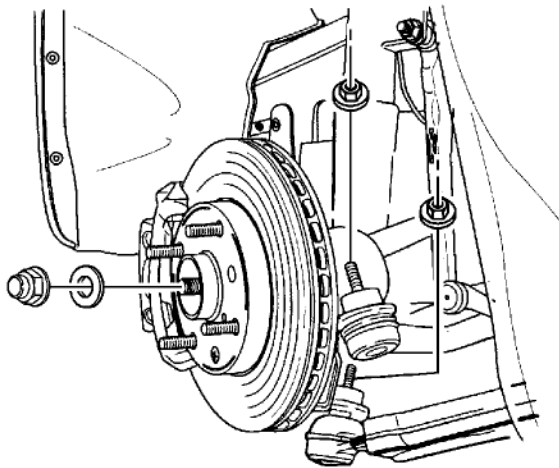
Steering Knuckle Replacement

Tools Required

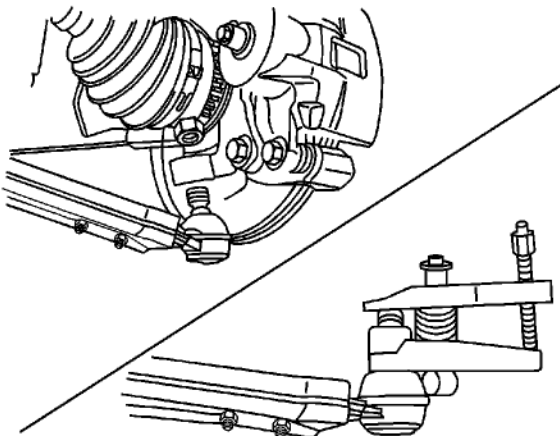
[KM-507-C](#) Ball Joint Remover

Removal Procedure

1. Raise and support the vehicle. Refer to [Lifting and Jacking the Vehicle](#) .
2. Remove the front wheels. Refer to [Tire and Wheel Removal and Installation](#) .



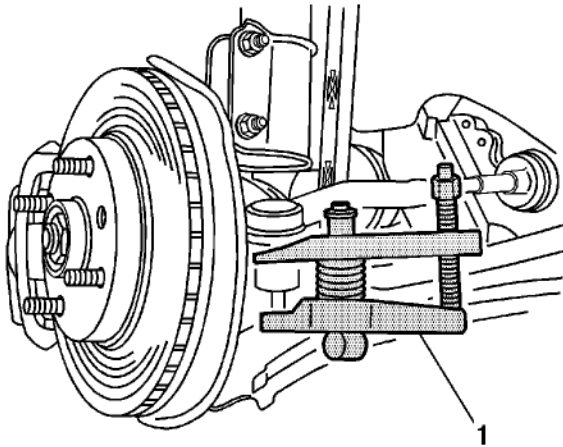
3. Remove the axle shaft caulking nut. Discard the nut.
4. Remove the lower ball joint nut.





Notice: Use only the recommended tools for separating the ball joint from the knuckle. Failure to use the recommended tools may cause damage to the ball joint and seal.

5. Use the [KM-507-C](#) in order to separate the lower ball joint from the steering knuckle.
6. Remove the outer tie rod nut.

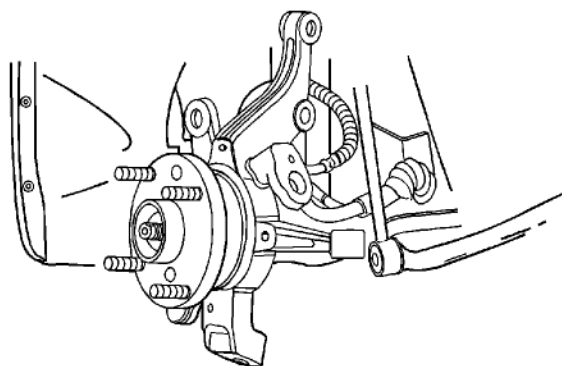


7. Use the [KM-507-C](#) (1) in order to separate the outer tie rod end from the steering knuckle.

Notice: Support the brake caliper with heavy mechanic wire, or equivalent, whenever it is separated from its mount and the hydraulic flexible brake hose is still connected. Failure to support the caliper in this manner will cause the flexible brake hose to bear the weight of the caliper, which may cause damage to the brake hose and in turn may cause a brake fluid leak.

Important: DO NOT disconnect the hydraulic brake flexible hose from the caliper.

8. Remove the brake caliper and the pads as an assembly and support the assembly with heavy mechanics wire, or equivalent. Verify there is no tension on the brake hose. Refer to [Brake Caliper Replacement](#) .
9. Remove the brake rotor. Refer to [Brake Rotor Replacement](#) .



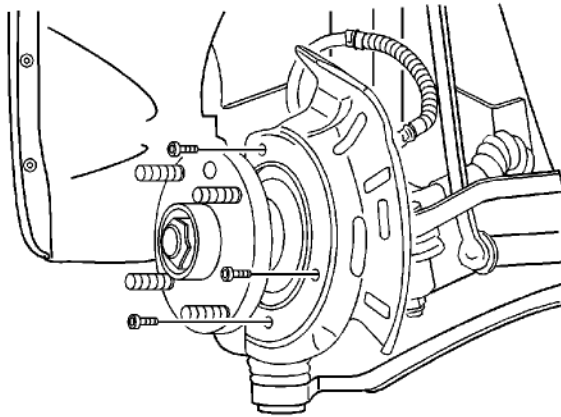
10. Remove the ABS wheel speed sensor, if equipped. Refer to [Front Wheel Speed Sensor Replacement](#).
11. Remove the front strut nuts and bolts.

Notice: Do not overextend the wheel drive shaft. Allowing the inboard joint to overextend can cause separation of the internal components and lead to joint failure.

12. Support the wheel drive shaft.
13. Remove the knuckle assembly.
14. Remove the wheel hub, bearing and seal from the knuckle. Refer to [Wheel Hub, Bearing, Knuckle, and Seal Replacement](#).
15. Remove the splash shield and the screws from the knuckle.

Installation Procedure

Notice: Refer to [Fastener Notice](#) in the Preface section.



1. Install the splash shield to the knuckle with the screws.

Tighten

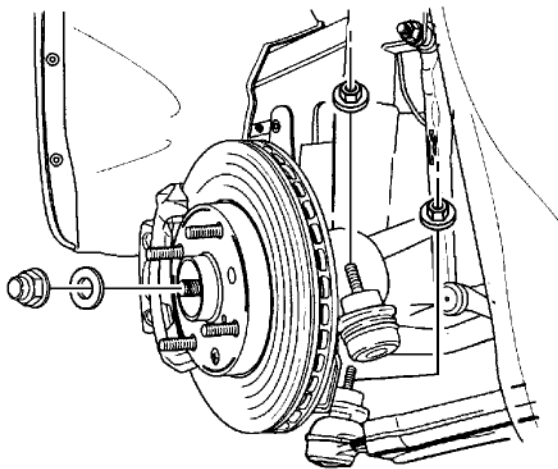
Tighten the splash shield-to-steering knuckle screws to 4 N·m (35 lb in).

2. Install the wheel hub, bearing and seal to the knuckle. Refer to [Wheel Hub, Bearing, Knuckle, and Seal Replacement](#).
3. Install the knuckle assembly to the front strut with the nuts and bolts.

Tighten

Tighten the knuckle assembly to the front strut with nuts and bolts to 100 N·m (74 lb ft).

4. Install the ABS wheel speed sensor. Refer to [Front Wheel Speed Sensor Replacement](#).
5. Install the brake rotor. Refer to [Brake Rotor Replacement](#).
6. Install the brake caliper. Refer to [Brake Caliper Replacement](#).





7. Install the lower ball joint to the steering knuckle.
8. Install the lower ball joint nut.

Tighten

Tighten the lower ball joint nut to 55 N·m (41 lb ft).

9. Install the outer tie rod end to the steering knuckle.
10. Install the outer tie rod nut.

Tighten

Tighten the outer tie rod nut to 45 N·m (33 lb ft).

11. Loosely install a NEW axle shaft caulking nut.
12. Tighten the axle shaft caulking nut.

Tighten

Tighten the axle shaft caulking nut to 300 N·m (221 lb ft).

13. Stake the caulking nut.
14. Install the front wheels. Refer to [Tire and Wheel Removal and Installation](#) .
15. Lower the vehicle.
16. Inspect the vehicle. Refer to [Preliminary Alignment Inspection](#) and to [Straight Ahead Inspection](#) .
17. Measure the wheel alignment.
18. If necessary, adjust the front toe. Refer to [Front Toe Adjustment](#) .

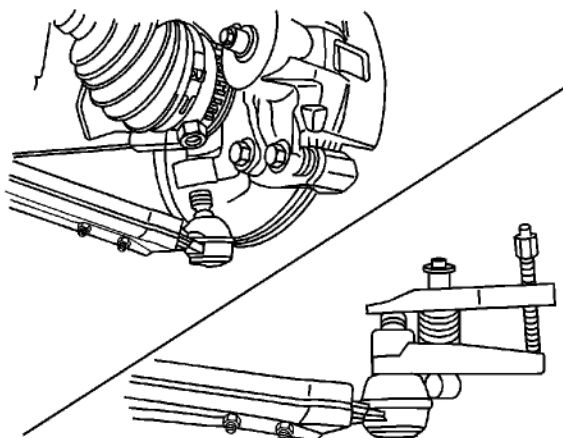
Control Arm Replacement

Tools Required

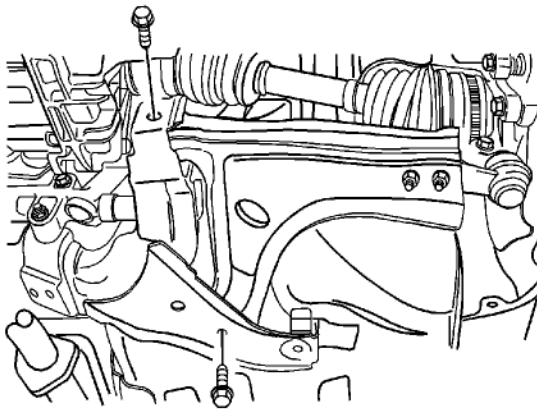
[KM-507-C](#) Ball Joint Remover

Removal Procedure

1. Raise and support the vehicle. Refer to [Lifting and Jacking the Vehicle](#) .
2. Place the jackstands under the frame of the vehicle.
3. Lower the vehicle slightly so the weight of the vehicle rests on the frame and not on the control arms.
4. If the transaxle blocks access to the control arm front mounting bolt, use a jack in order to slightly raise the transaxle case.
5. Remove the front tire and wheel assembly. Refer to [Tire and Wheel Removal and Installation](#) .
6. If equipped, disconnect the stabilizer shaft from the control arm by removing the control arm-link bolt assembly. Refer to [Stabilizer Shaft Replacement](#) .
7. If equipped, remove the retaining clip from the ball joint stud.

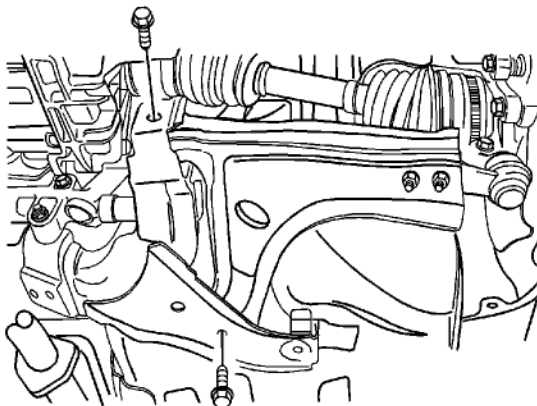


8. Remove the ball joint-to-knuckle nut from the ball joint stud.
9. Push the top of the ball joint seal down.
10. Position the bottom of the [KM-507-C](#) between the ball joint seal and the knuckle.
11. Disconnect the ball joint from the knuckle using the [KM-507-C](#) .



12. Remove the control arm front mounting bolt and lock washer.
13. Remove the control arm rear mounting bolt.
14. Remove the control arm from the vehicle.

Installation Procedure



1. Install the control arm onto the vehicle.

Important: Do not tighten the control arm bolts at this point.

2. Install the control arm front mounting bolt and lock washer.
3. Apply a thread sealer to the control arm rear mounting bolt.

4. Install the control arm rear mounting bolt.

Notice: Use a new self-locking nut when installing the control arm link assembly. Failure to do so may allow the normal road and vehicle vibration to possibly loosen the nut and could cause vehicle handling concerns.

5. If equipped, install the stabilizer shaft link bolt assembly to the control arm. Refer to [Stabilizer Shaft Replacement](#).
6. Install the ball joint to the steering knuckle.

Notice: Refer to [Fastener Notice](#) in the Preface section.

7. Tighten the ball joint-to-knuckle nut.

Tighten

Tighten the ball joint-to-knuckle nut to 55 N·m (41 lb ft).

8. If equipped, install the retaining clip to the ball joint stud.
9. Install the front tire and wheel assembly. Refer to [Tire and Wheel Removal and Installation](#).
10. Place the jackstands under the control arms.
11. Lower the vehicle onto the jackstands.

Important: The control arms must support the weight of the vehicle while the control arm mounting bolts are being tightened.

12. Tighten the control arm rear mounting bolts.

Tighten

Tighten the control arm rear mounting bolts to 110 N·m (81 lb ft).

13. Tighten the control arm front mounting bolt.

Tighten

Tighten the control arm front mounting bolt to 110 N·m (81 lb ft).

14. Remove the jackstands.
15. Lower the vehicle.

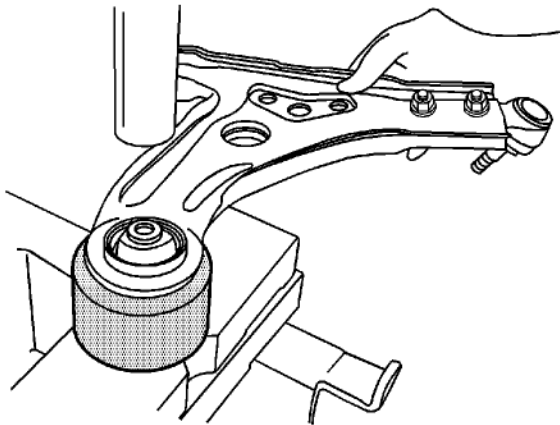
Front Lower Control Arm Bushing Replacement

Tools Required

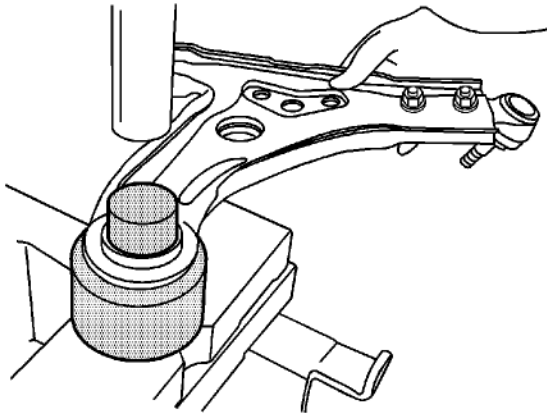
- [CH-48358](#) Front Control Arm Rear Bushing Replacer
- [KM-158](#) Remover/Installer
- [KM-307-B](#) Removal Plate
- [KM-508-A](#) Control Arm Bushing Remover/Installer

Disassembly Procedure

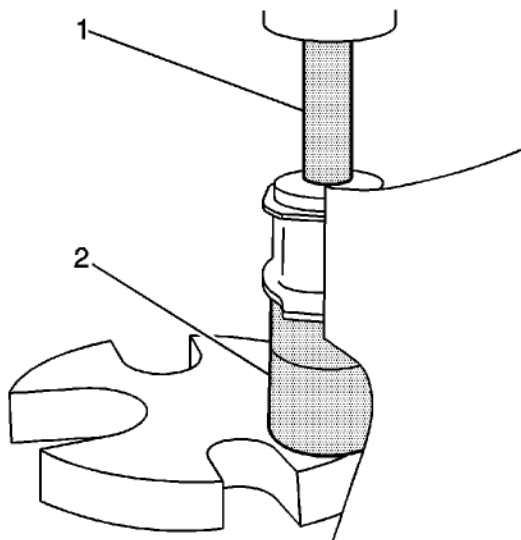
1. Remove the front lower control arm assembly. Refer to [Control Arm Replacement](#) .
2. Note the location of the arrow on the rear bushing relative to the dot stamped on the control arm.
3. Note the location of the plus signs on the front bushing relative to the control arm.



4. From the [CH-48358](#) kit, place the CH-48358-2 on a press.
5. Place the control arm assembly on the press. Position the rear bushing on the CH-48358-2.

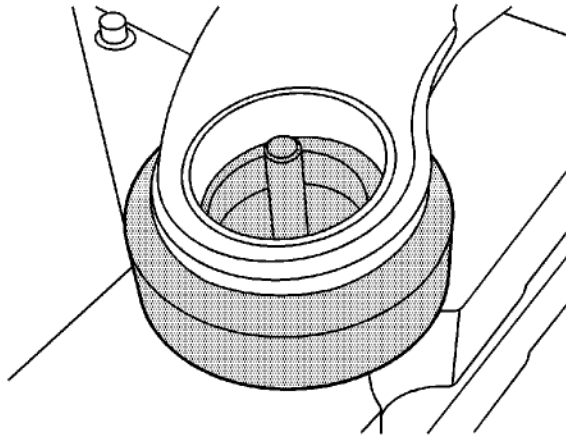


6. Place the CH-48358-1 on the front control arm rear bushing.
7. Use the press in order to remove the rear bushing.
8. Remove any dirt or burrs from the surface of the rear bushing hole.

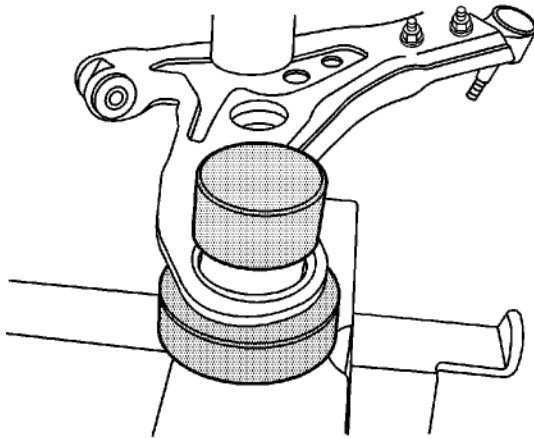


9. Place the [KM-307-B](#) on a press.
10. From the [KM-508-A](#) kit, place the KM-508-4 (2) on the [KM-307-B](#).
11. Place the control arm assembly on the press. Position the front control arm front bushing on the KM-508-4.
12. From the [KM-158](#) kit, place the KM-158-5 (1) on the front bushing.
13. Use the press in order to remove the front bushing.

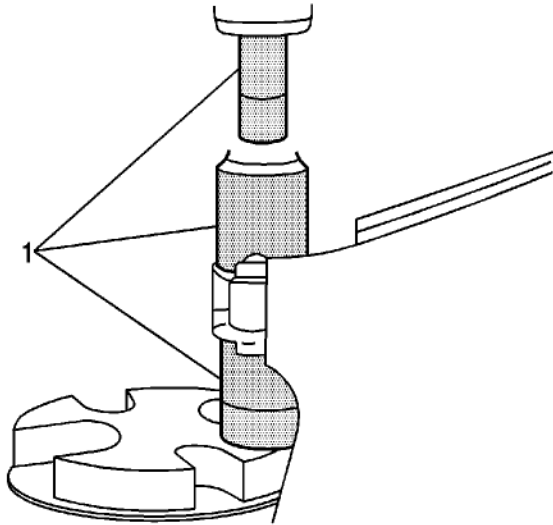
Assembly Procedure



1. Place the CH-48358-4 on the press.
2. Position the control arm on the CH-48358-4.
3. Align the arrow on the rear bushing with the dot on the control arm.



4. Place a NEW rear bushing on the control arm.
5. Place the CH-48358-3 on the rear bushing.
6. Use the press in order to install the rear bushing.



7. Place the [KM-307-B](#) on a press.
8. From the [KM-508-A](#) kit (1), place the KM-508-4 on the [KM-307-B](#) .
9. Place the control arm on the KM-508-4.
10. Place the KM-508-2 on the control arm.
11. Coat the outside of the front bushing and the inside of the front bushing hole in the control arm with lubricant.
12. Place the front bushing in the KM-508-2. Align the plus signs on the bushing with the control arm.
13. Place the KM-508-3 on the front bushing.
14. Use the press in order to install the front bushing.
15. Center the front bushing.
16. Install the front lower control arm assembly. Refer to [Control Arm Replacement](#) .

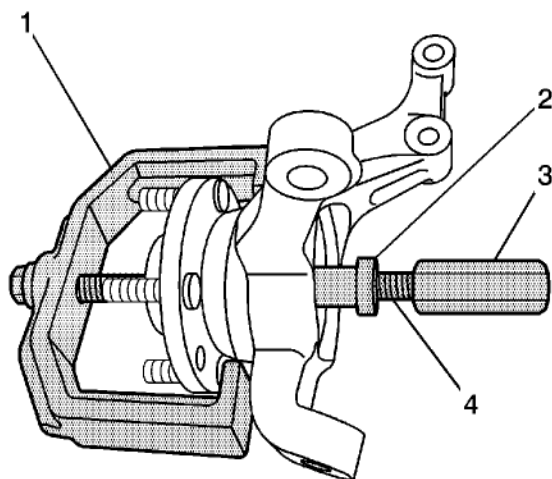
Wheel Hub, Bearing, Knuckle, and Seal Replacement

Tools Required

- [DT-47540](#) (DW340-120-01) Wheel Hub Replacer Adapter
- [DT-47541](#) (DW340-120-02) Wheel Bearing Remover Adapter
- [DT-47542](#) (DW340-120-03) Wheel Bearing Installer Adapter
- [DT-47543](#) (DW-340-120-04) Wheel Bearing Installer Adapter
- [J 21474-01](#) Control Arm Bushing Set
- [J 22912-B](#) Split Plate
- [J-37105-C](#) ([CH-46560](#)) (DW-340-040) Front Hub Service Set

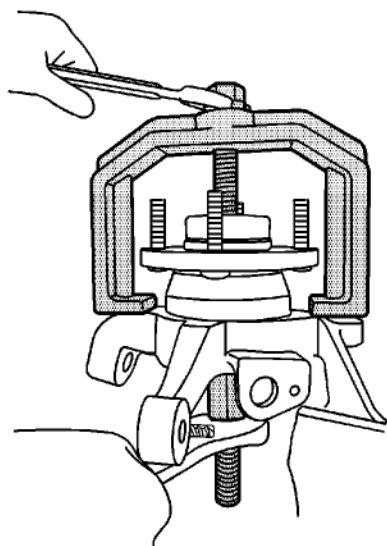
Disassembly Procedure

1. Raise and support the vehicle. Refer to [Lifting and Jacking the Vehicle](#).
2. Remove the wheel hub, bearing, knuckle, and brake shield as an assembly. Refer to [Steering Knuckle Replacement](#).
3. Use a vise in order to hold the knuckle assembly.
4. Remove the brake shield. Refer to [Front Brake Shield Replacement](#).

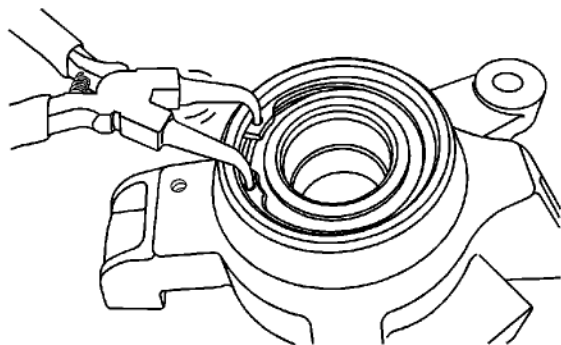


5. From the front hub service set [J-37105-C](#) ([CH-46560](#)) (DW-340-040), apply lubricant J-23444-A to the rod (4) J-36661-2 (CH-46560-04).
6. Insert the rod J-36661-2 (CH-46560-04) through the following:
 - 6.1. The bearing 217801 (CH-46560-06) (DW340-040-6)
 - 6.2. The bridge (1) J-37105-1 (CH-46560-01) (DW340-040-1)
 - 6.3. The hub

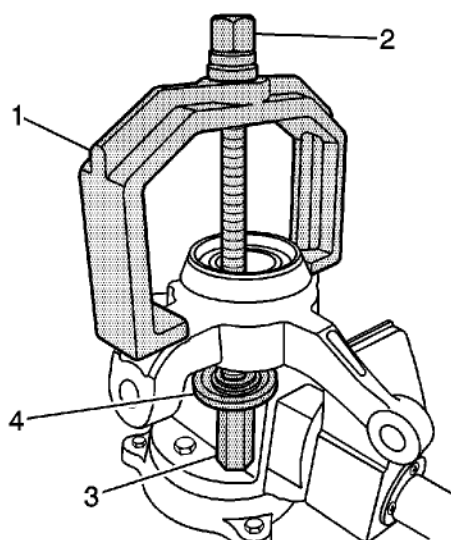
- 6.4. The adapter (2) [DT-47540](#) (DW340-120-01)
7. From either the control arm bushing set [J 21474-01](#) or the front hub service set [CH-46560](#) , install the nut (3) J-21474-4 (CH-46560-05) to the rod J-36661-2 (CH-46560-04).



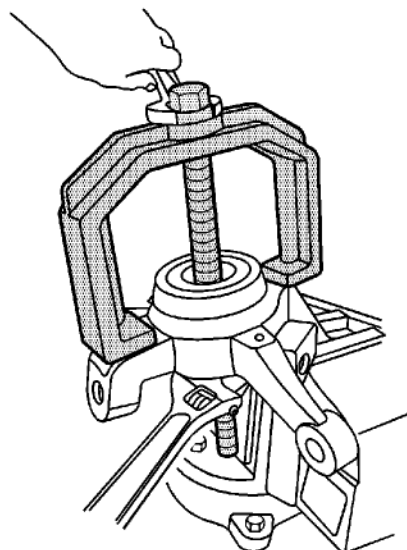
8. Remove the wheel hub from the wheel bearing.
9. Remove the special tools from the knuckle.
10. If necessary, use the split plate [J 22912-B](#) , or equivalent, and a hydraulic press in order to remove the bearing race from the hub.



11. Remove the retaining ring from the knuckle.



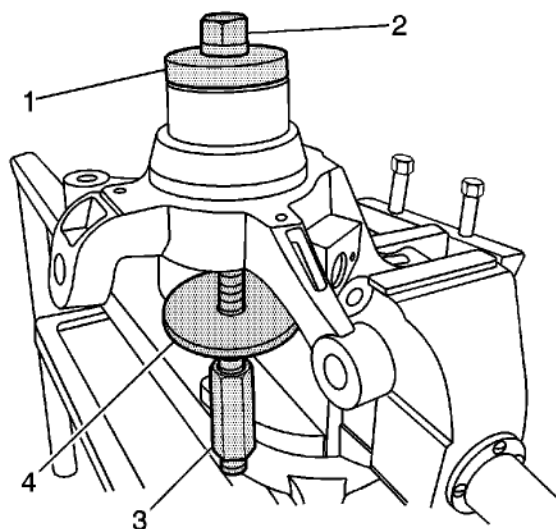
12. Insert the rod (2) J-36661-2 (CH-46560-04) through the following:
 - 12.1. The bearing 217801 (CH-46560-06) (DW340-040-6)
 - 12.2. The bridge (1) J-37105-1 (CH-46560-01) (DW340-040-1)
 - 12.3. The wheel bearing
 - 12.4. The adapter (4) [DT-47541](#) (DW340-120-02)
13. Install the nut (3) J-21474-4 (CH-46560-05) to the rod J-36661-2 (CH-46560-04).



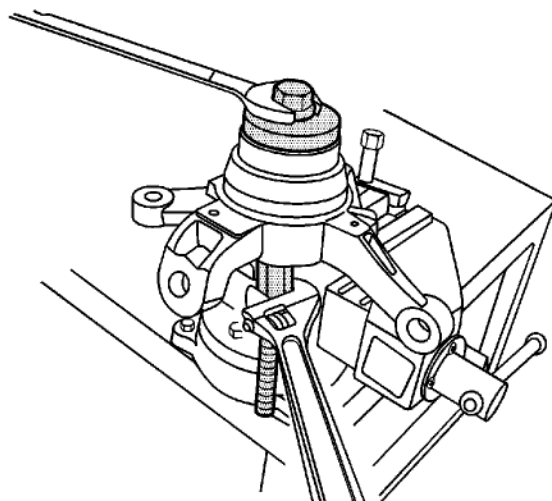
14. Remove the wheel bearing from the knuckle.
15. Remove the special tools from the knuckle.
16. Discard the wheel bearing.
17. Clean the bore of the knuckle.

Assembly Procedure

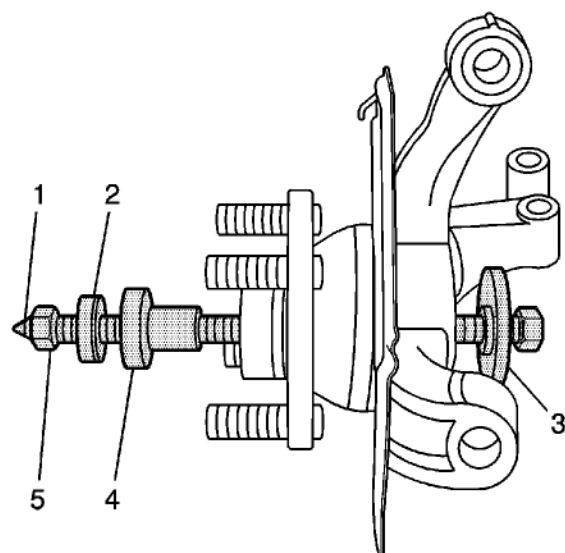
1. Use a vise in order to hold the steering knuckle.



2. Insert the rod (2) J-36661-2 (CH-46560-04) through the following:
 - 2.1. The bearing 217801 (CH-46560-06) (DW340-040-6)
 - 2.2. The adapter (1) [DT-47543](#) (DW-340-120-04)
 - 2.3. The NEW wheel bearing
 - 2.4. The adapter (4) [DT-47542](#) (DW340-120-03)
3. Install the nut (3) J-21474-4 (CH-46560-05) to the rod J-36661-2 (CH-46560-04).



4. Install the wheel bearing to the knuckle.
5. Remove the special tools from the knuckle.
6. Install the retaining ring to the knuckle.
7. Install the brake shield. Refer to [Front Brake Shield Replacement](#).



8. Insert the rod (1) J-36661-2 (CH-46560-04) through the following:
 - 8.1. The adapter (3) [DT-47541](#) (DW340-120-02)
 - 8.2. The hub
 - 8.3. The adapter (4) [DT-47540](#) (DW340-120-01)
 - 8.4. The bearing (2) 217801 (CH-46560-06) (DW340-040-6)
9. Install the nut (5) to the rod J-36661-2 (CH-46560-04).
10. Install the hub to the wheel bearing.
11. Remove the special tools from the knuckle.
12. Verify the hub rotates smoothly.
13. Install the wheel hub, bearing, knuckle, and brake shield as an assembly. Refer to [Steering Knuckle Replacement](#).
14. Lower the vehicle.

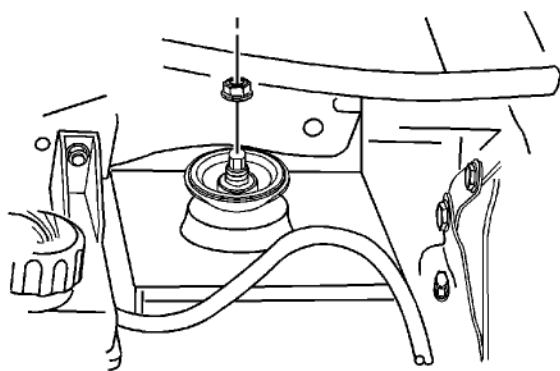
Strut Assembly Replacement

Tools Required

[J 42468](#) Front Strut Mount Nut Wrench

Removal Procedure

1. Remove the strut nut cap, if equipped.

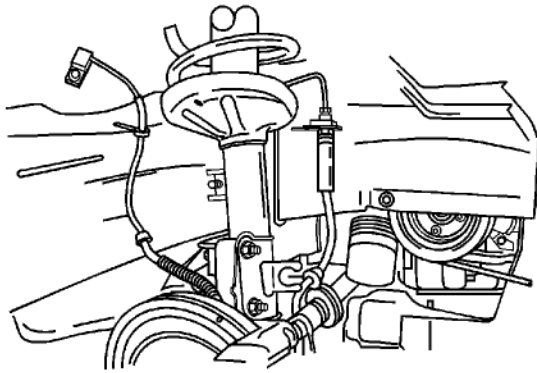


Notice: Do not allow the absorber rod to rotate during disassembly/reassembly. Use hand tools to keep the absorber rod from rotating. If air tools are used, and the rod is allowed to rotate, damage to the absorber may occur.

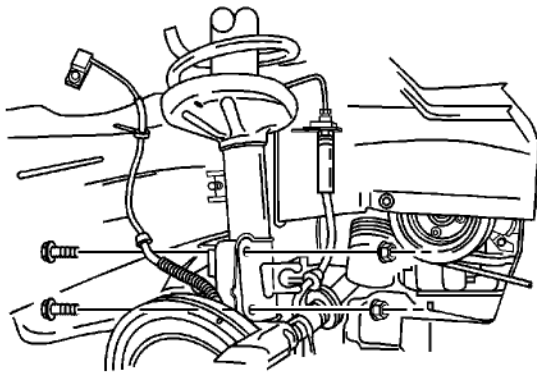
2. Use a wrench in order to hold the piston rod while loosening the strut assembly-to-body nut with the [J 42468](#) or equivalent.

Important: Raise and support the vehicle on a frame contact hoist, not on a suspension contact hoist. Support the front lower control arm with a jack stand near the ball joint in order to avoid overextending the CV joints and the brake hose.

3. Raise and support the vehicle in order to access the bottom and the top of the strut. Refer to [Lifting and Jacking the Vehicle](#).
4. Remove the front tire and wheel assembly. Refer to [Tire and Wheel Removal and Installation](#).



5. Remove the ABS speed sensor wire, if equipped, from the strut bracket.
6. Remove the brake hose from the strut bracket.
7. Remove the stabilizer shaft link upper nut.
8. Remove the stabilizer shaft link upper stud from the strut bracket.



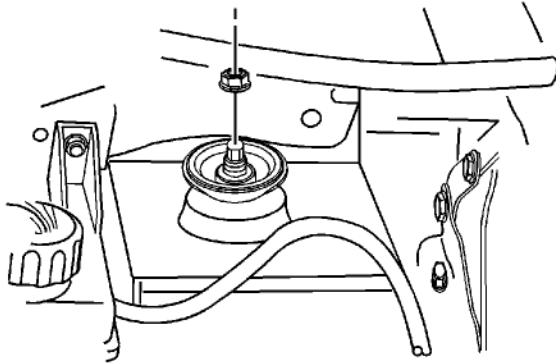
9. Remove the nuts and the bolts from the strut.
10. Remove the strut assembly-to-body nut with the [J 42468](#) or equivalent.

Notice: Care should be taken to avoid chipping or cracking the spring coating when handling the front suspension coil spring. Failure to observe this notice may result in spring breakage.

11. Remove the strut assembly from the vehicle.

Installation Procedure

Notice: Refer to [Fastener Notice](#) in the Preface section.

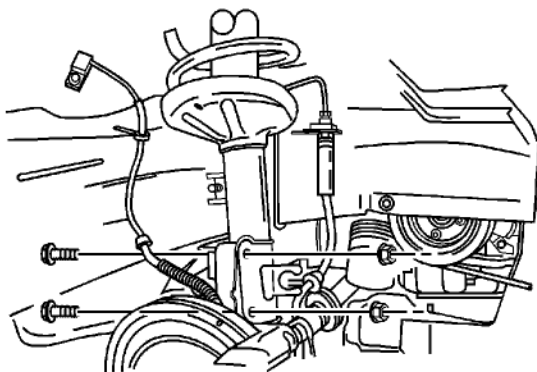


1. Install the strut assembly into the vehicle with the strut assembly-to-body nut. Use a wrench in order to hold the piston rod while tightening the nut with the [J 42468](#) or equivalent.

Tighten

Tighten the strut assembly-to-body nut to 60 N·m (44 lb ft).

2. Install the strut nut cap, if equipped.



3. Install the strut to the knuckle.
4. Install the nuts and the bolts to the strut.

Tighten

Tighten the knuckle-to-strut nuts and bolts to 100 N·m (74 lb ft).

5. Install the stabilizer shaft link upper stud to the strut bracket.
6. Install the stabilizer shaft link upper nut.

Tighten

Tighten the stabilizer shaft link upper nut to 50 N·m (37 lb ft).

7. Install the brake hose to the strut bracket.
8. Install the ABS speed sensor wire, if equipped, to the strut bracket.
9. Install the front tire and wheel assembly. Refer to [Tire and Wheel Removal and Installation](#) .
10. Remove the jack stands and lower the vehicle.

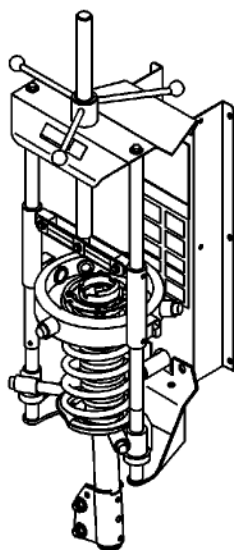
Strut, Strut Component, and Spring Replacement

Tools Required

- [J 45400](#) ([KM-329-A](#)) Strut Spring Compressor
- [J-44626](#) ([SA9603E](#)) Oxygen Sensor 22 mm Socket

Disassembly Procedure

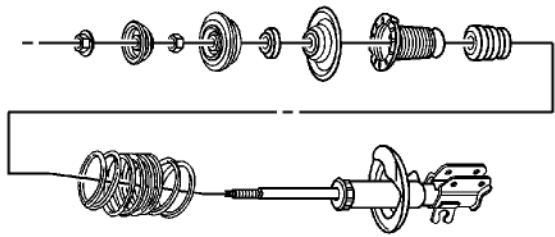
1. Remove the strut assembly. Refer to [Strut Assembly Replacement](#) .
2. Use paint in order to mark the position of the spring relative to the strut assembly-to-knuckle bracket.



3. Install the strut assembly to the [J 45400](#) ([KM-329-A](#)) or equivalent. Ensure the hooks are seated on the spring properly.
4. Compress the spring with the [J 45400](#) ([KM-329-A](#)) or equivalent.

Notice: Do not allow the absorber rod to rotate during disassembly/reassembly. Use hand tools to keep the absorber rod from rotating. If air tools are used, and the rod is allowed to rotate, damage to the absorber may occur.

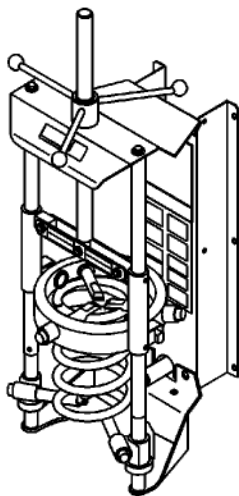
5. Use a wrench in order to hold the threaded piston rod while removing the piston rod nut with the [J-44626](#) ([SA9603E](#)) or equivalent.



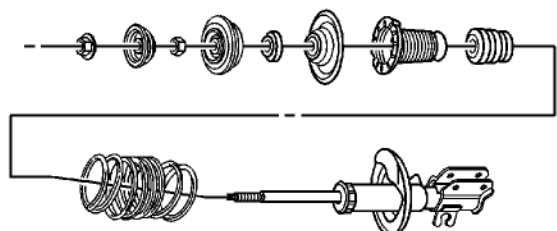
6. Remove the following components from the strut:

- The strut mount
- The strut mount bearing
- The spring upper seat
- The strut cartridge upper cover
- The bumper stop
- The coil spring

Assembly Procedure



1. Install the spring to the [J 45400](#) ([KM-329-A](#)) or equivalent. Ensure the hooks are seated on the spring properly.
2. Compress the spring using the [J 45400](#) ([KM-329-A](#)) or equivalent.



Important: Locate the spring to the original position on the spring seat.

3. Align the match marks and install the spring to the strut.
4. Install the following components to the strut:
 - The bumper stop
 - The strut cartridge upper cover
 - The spring upper seat
 - The strut mount bearing
 - The strut mount

Notice: Refer to [Fastener Notice](#) in the Preface section.

5. Use a wrench in order to hold the threaded piston rod while installing the piston rod nut with the [J-44626](#) ([SA9603E](#)) or equivalent.

Tighten

Tighten the piston rod nut to 60 N·m (44 lb ft).

6. Remove the strut assembly from the [J 45400](#) ([KM-329-A](#)) or equivalent.
7. Install the strut assembly to the vehicle. Refer to [Strut Assembly Replacement](#) .