Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922

Subject:	**Bulletin No:** 02-005/07
SQUEAK OR KNOCK NOISE FROM SUSPENSION WHEN PASSING OVER A BUMP	**Last Issued:** 09/19/2007

BULLETIN NOTE

This bulletin supersedes the previous bulletin 02-005/07 issued on 08/29/07. The APPLICABLE MODEL(S)/ VINS has been revised.

APPLICABLE MODEL(S)/VINS

2006-2007 Mazda5 vehicles with VINs lower than JM1 CR**** ** 145133 (produced before December 1, 2006) for front stabilizer bushings.

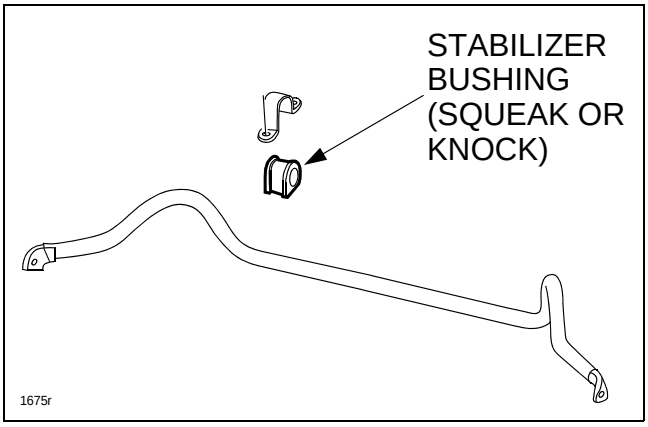
2006 Mazda5 vehicles with VINs lower than JM1 CR**** ** 111238 (produced before November 1, 2005) for rear stabilizer bushings.

2006 Mazda5 vehicles with VINs lower than JM1 CR**** ** 120197 (produced before January 27, 2006) for lower arm.

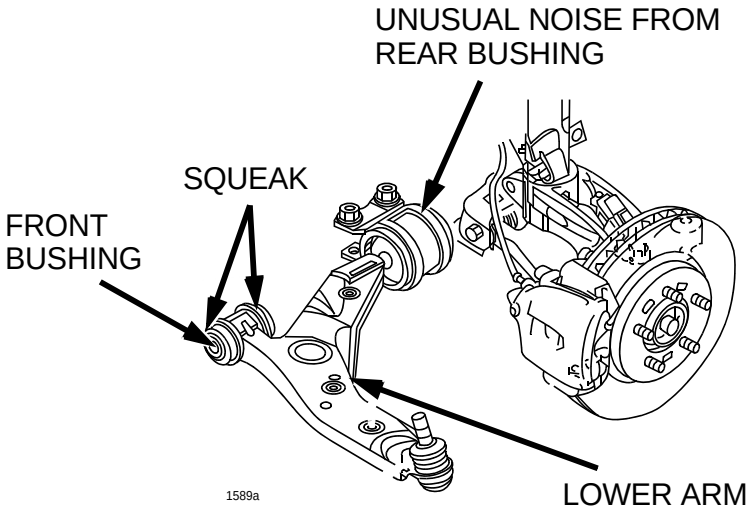
DESCRIPTION

Some vehicles may exhibit a squeak, knock, or unusual noise from the front suspension or rear suspension when passing over a bump at a low speed. This is may be caused by one of the following:

- The front/rear stabilizer bushing.



- The front or rear bushing of the front lower arm.



To stop the noise, the following mass production changes have occurred.

- The stabilizer bar bushing rubber was made harder and the amount of wax that is included in the front/ rear stabilizer bushing has been increased.
- The position of the split in the front stabilizer bar bushing rubber has been changed.
- The shape of the front lower arms along with the attached bushings has been changed.

Customers having this concern should have their vehicle repaired using the following repair procedure.

REPAIR PROCEDURE

1. Verify customer concern, specifically the location of the noise and root cause component, then move on to the procedures that apply.
2. Verify each repair when finished.

FRONT LOWER CONTROL ARM (FOR SQUEAK)

1. Replace front lower arm. Refer to appropriate Workshop Manual section 02-13 - FRONT LOWER ARM REMOVAL / INSTALLATION.
2. Perform toe-in inspection and adjustment. Refer to appropriate Workshop Manual section 02-11 - FRONT WHEEL ALIGNMENT.

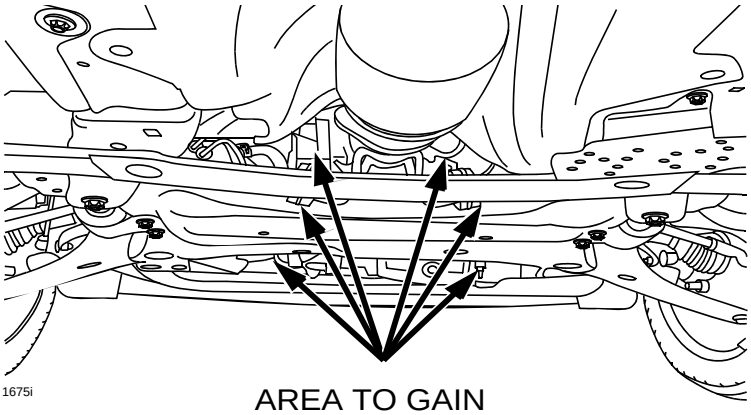
FRONT STABILIZER BUSHINGS (FOR SQUEAK OR KNOCK)

1. Raise the vehicle in the air.

   WARNING: Before working on the vehicle, make sure the vehicle's engine and exhaust are cooled down.

   NOTE: Do one side at a time, otherwise the stabilizer bar could shift out of position and make the repair more difficult.

2. Reach in through the access area just behind and in front of the cross-member and locate the front stabilizer bar bushings.



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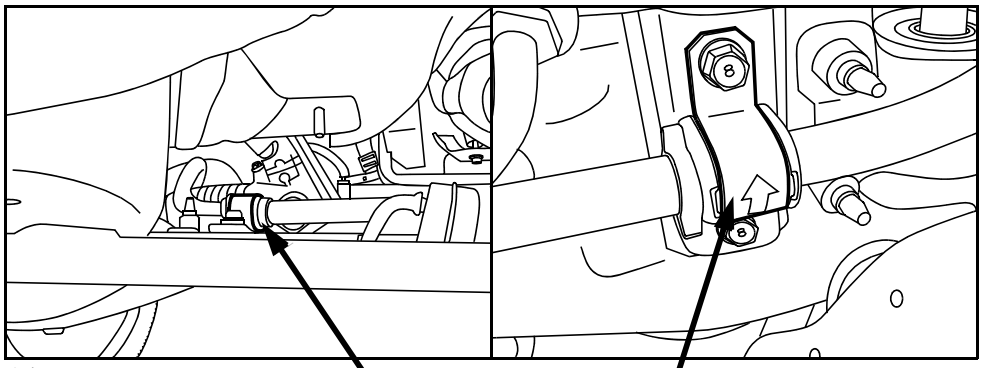
AREA TO GAIN ACCESS



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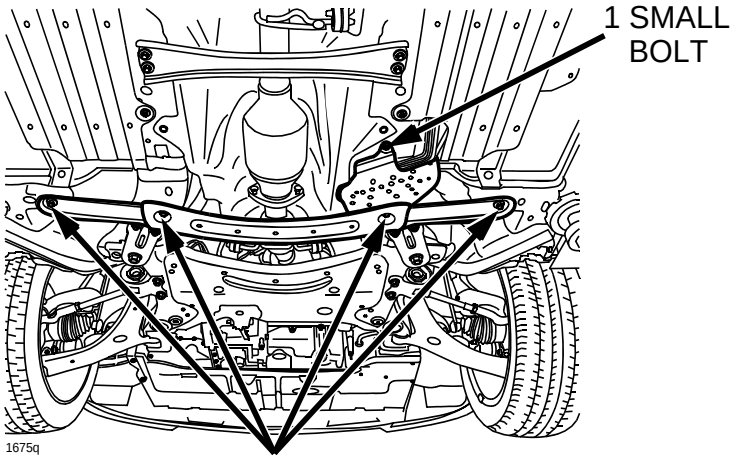
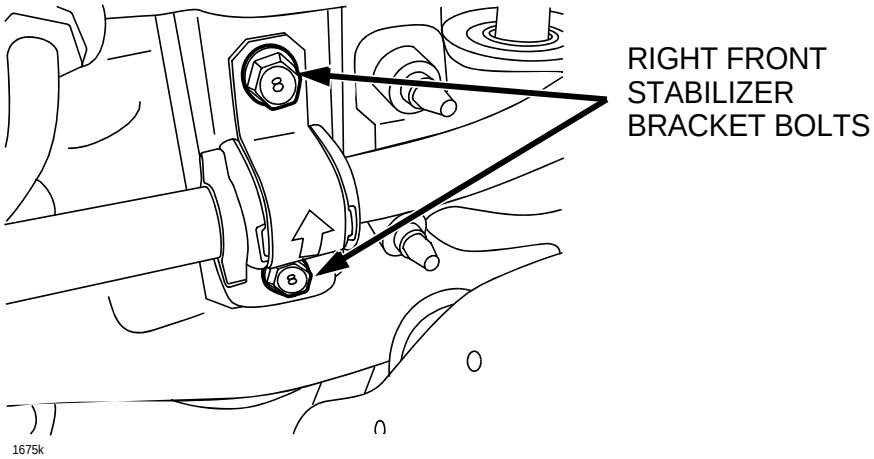
LEFT STABILIZER BUSHING & BRACKET

RIGHT STABILIZER BUSHING & BRACKET

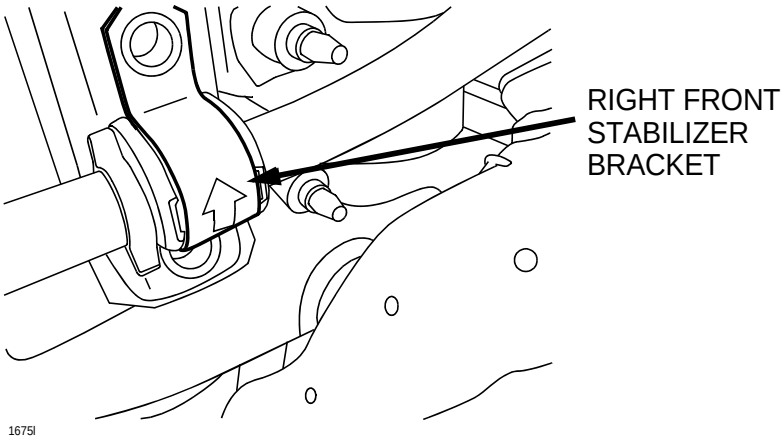
3. Remove the transverse member to make access easier to the left and right stabilizer bar brackets and bolts.



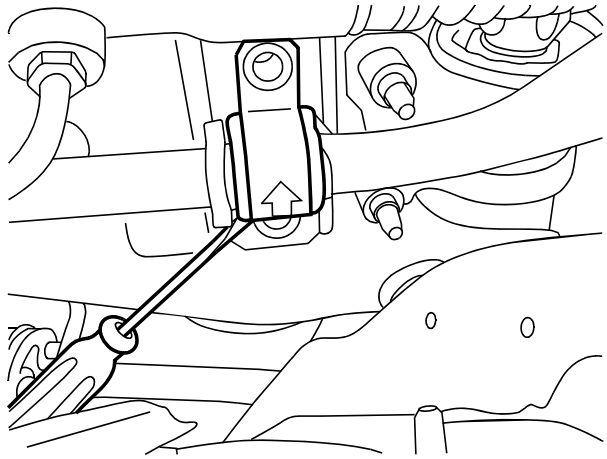
4. Remove the two bolts for the right front stabilizer bracket and loosen the two bolts on the left front stabilizer bracket.



5. Remove the right front stabilizer bracket.



NOTE: It may be necessary to use a screwdriver to pry the bracket off.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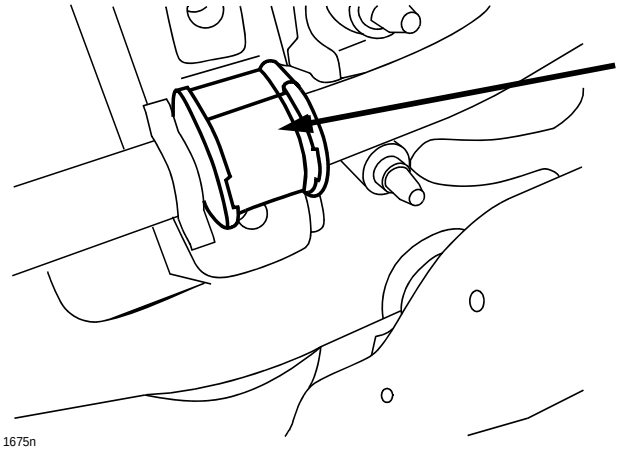
6. Remove the right front stabilizer bushing.



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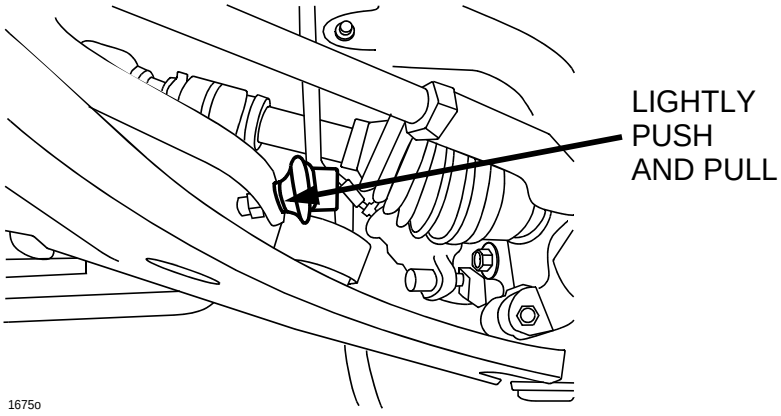
NOTE: It may be necessary to lightly push or pull on the side of the stabilizer bar where it meets the stabilizer control link to allow clearance.



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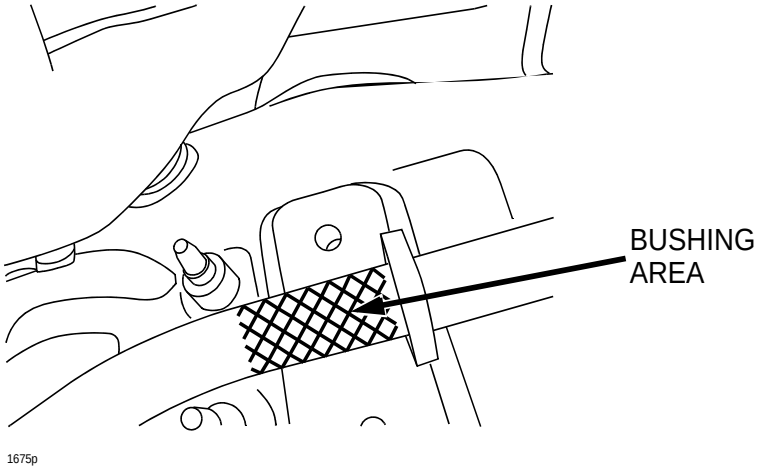
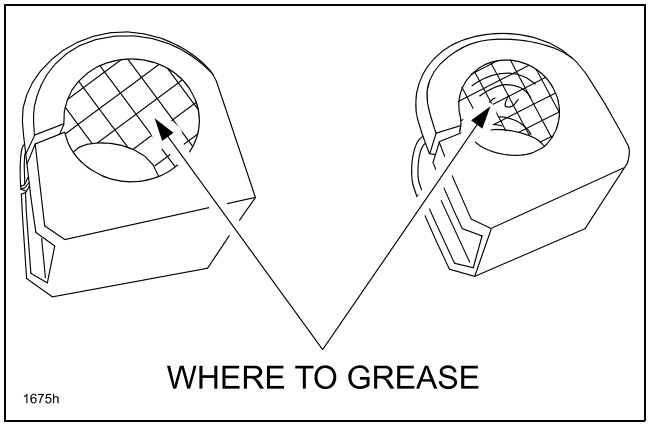
7. Clean the area on the stabilizer bar where the bushing goes.



8. Apply a light coating of locally sourced white lithium-soap based grease to the inner cylindrical surface of the new front bushings.



9. Install the new right front bushing.
10. Install the right front stabilizer bracket.
11. Align and install the bolts for the right front stabilizer bracket, but do not tighten.

    NOTE: It may be necessary to lightly push or pull on the side of the stabilizer bar where it meets the stabilizer control links to allow clearance.

12. Repeat steps 4-11 for the left front bushing, then tighten the bolts for both stabilizer brackets.
    Tightening torque: 40.3-53.9 Nm (29.8-39.7 ft-lbf)
13. Install the transverse member (if removed) and install the bolts.
    Tightening torque: four larger bolts to 36.3-53.9 Nm (26.8-39.7 ft-lbf) and one smaller bolt to 7.8-10.8 Nm (70-95 in-lbf)

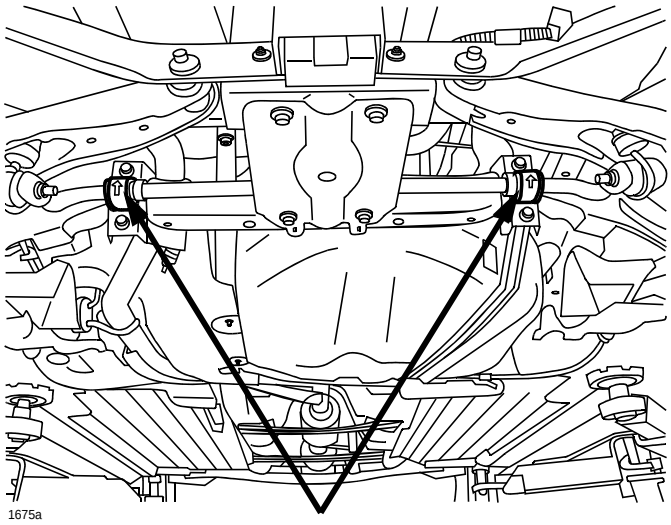
REAR STABILIZER BUSHINGS

1. Raise the vehicle in the air.

   WARNING: Before working on the vehicle, make sure the vehicle's engine and exhaust are cooled down.

   NOTE: Do one side at a time, otherwise the stabilizer bar could shift out of position and make the repair more difficult.

2. Locate the rear stabilizer bar bushings.



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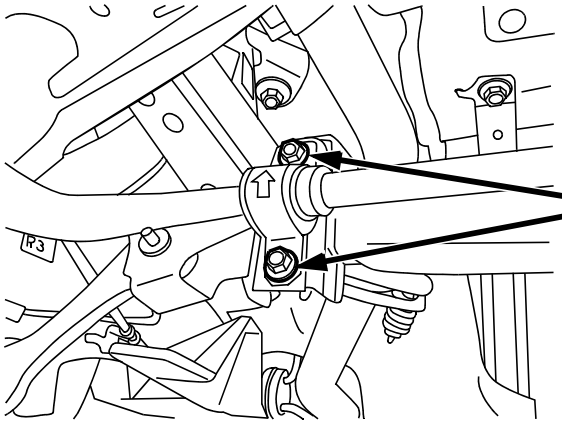
REAR STABILIZER BAR
BRACKETS AND BUSHINGS

3. Remove the two bolts for the left rear stabilizer bracket.



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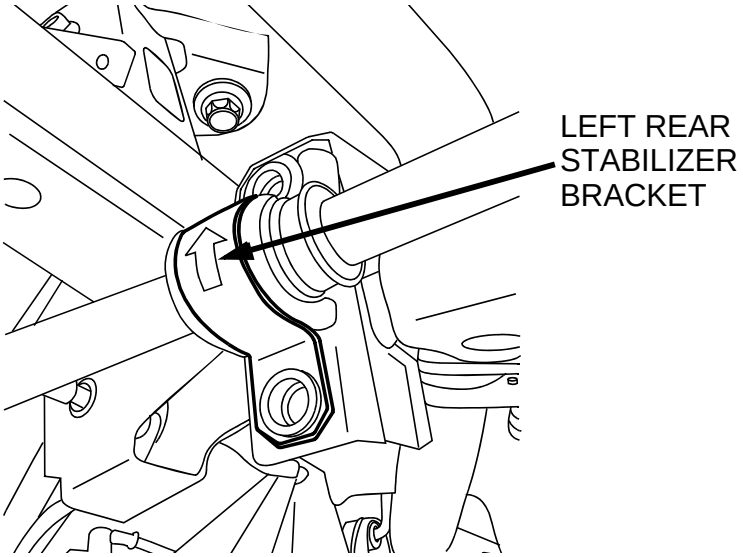
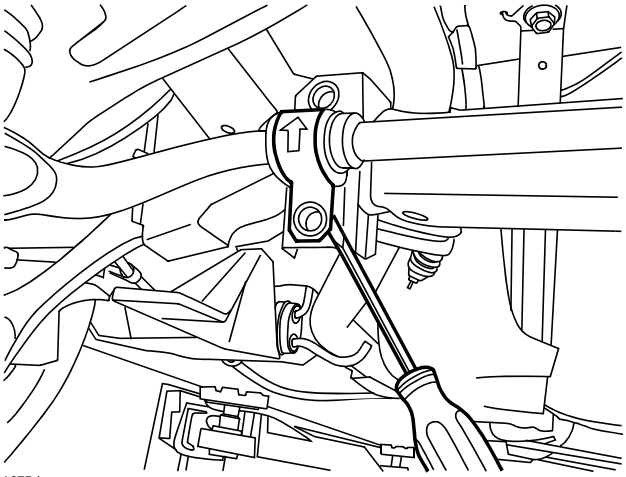
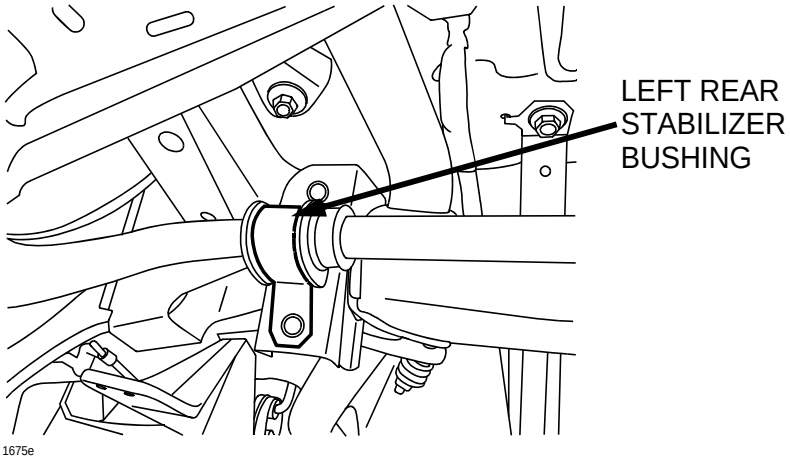
4. Remove the left rear stabilizer bracket.



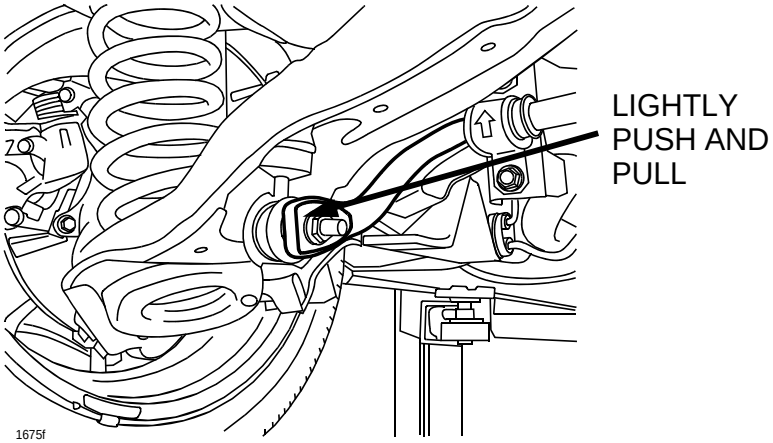
NOTE: It may be necessary to use a screwdriver to pry the bracket off.



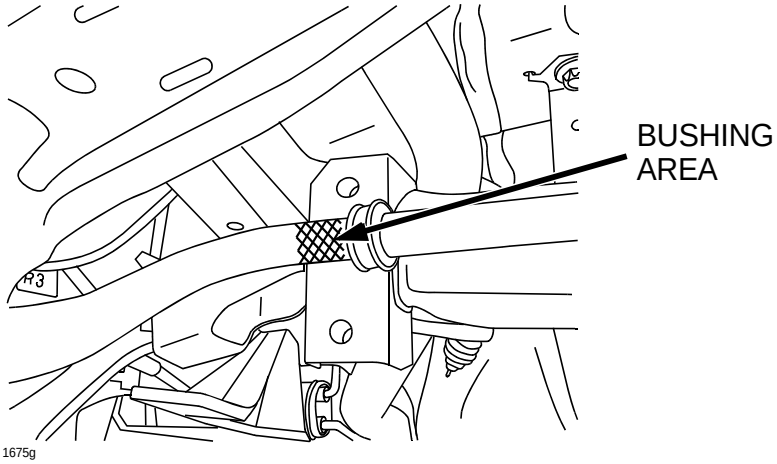
5. Remove the left rear stabilizer bushing.



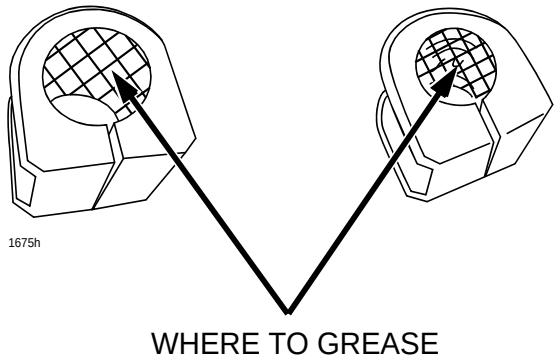
NOTE: It may be necessary to lightly push or pull on the side of the stabilizer bar where it meets the stabilizer control links to allow clearance.



6. Clean the area on the stabilizer bar where the bushing goes.



7. Apply a light coating of locally sourced white lithium-soap based grease to the inner cylindrical surface of the new rear bushings.



8. Install the new left rear bushing.
9. Install the left rear stabilizer bracket.

10. Align and install the bolts for the left rear stabilizer bracket.
    Tightening torque: 40.3-53.9 Nm (29.8-39.7 ft-lbf)

    NOTE: It may be necessary to lightly push or pull on the side of the stabilizer bar where it meets the stabilizer control links to allow clearance.

11. Repeat steps 3-10 for the right side.

PART(S) INFORMATION

Part Number	Description	Qty.
B32H-34-300D	Lower Arm Assembly (R)	1
B32H-34-350D	Lower Arm Assembly (L)	1
CC29-34-156B	Front Stabilizer Bushings	2
C243-28-156C	Rear Stabilizer Bushings	2

WARRANTY INFORMATION

NOTE:

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair. Refer to the Warranty Wizard for warranty term information.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	82
Damage Code	9B
Part Number Main Cause	SEE PART(S) INFORMATION
Quantity	1
Operation Number / Labor Hours:	XXB262R1 / 1.6 Hrs (One control arm) XXB262R2 / 2.1 Hrs (Both control arms) XXB427R1 / 0.5 Hrs (Front stabilizer bushings) XXB427R2 / 0.3 Hrs (Rear stabilizer bushings) XXB427R3 / 0.6 Hrs (Front & rear stabilizer bushings)

NOTE: A single claim should be submitted for all labor operations required.