



This Service Information bulletin supersedes S.I. 34 03 99 dated December 1999. Please remove and discard S.I. 34 03 99 from your binder.

MODEL

E46 Except four wheel drive and M3 up to 2/01 production.

SITUATION

Some E46s produced prior to 2/01 may exhibit a steering vibration when braking, which is usually most noticeable in the 60-50 MPH range.

CAUSE

This symptom is caused by excessive sensitivity of the front axle on some cars.

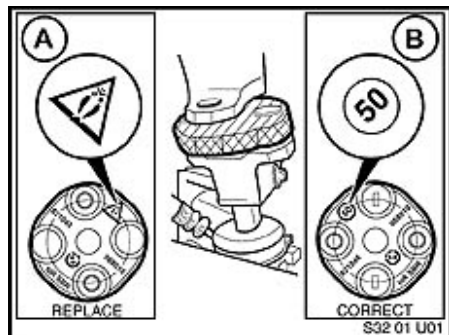
CORRECTION

There have been changes to the steering coupling, brake pads, and control arm bushings phased into production from 10/99 until 2/01.

In case of a customer complaint, follow the repair procedures described below to bring affected vehicles up to the latest standards.

PROCEDURE

- Vehicles produced prior to 10/99:



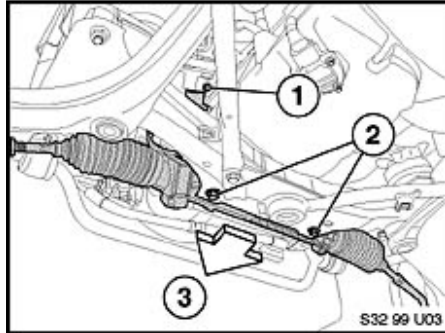
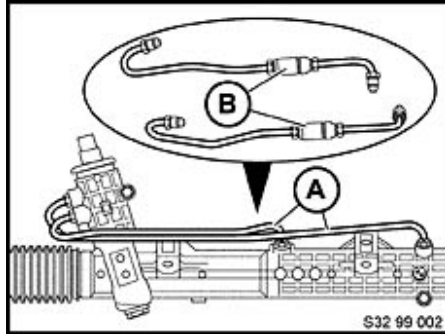
Check the supplier symbol on the flex coupling connecting the steering spindle to the steering rack.
Note: The symbol will only be found on one side of the rubber disc.
If the symbol found matches illustration A, the coupling must be replaced.
If the symbol found matches illustration B, the coupling is correct and does not have to be replaced.

If the flex coupling must be replaced, install part number 32 30 6 752 957 along with two new bolts part number 32 30 1 094 718, as per Repair Manual, section 32 31 053.

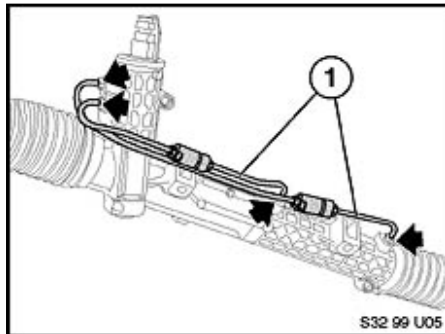
Note: The following additional instructions apply only to cars that have previously had dampened steering lines installed. The total number of cars so equipped is very small.

If the car previously had the dampened hydraulic lines (part number 32 13 6 750 847, item B in illustration below) installed on the steering rack they must be replaced with original lines. This portion of the repair should be performed in conjunction with the replacement of the steering coupling.

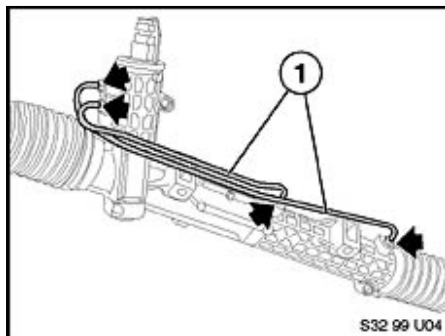
Original style lines (A)
Dampened lines (B) (must be removed)



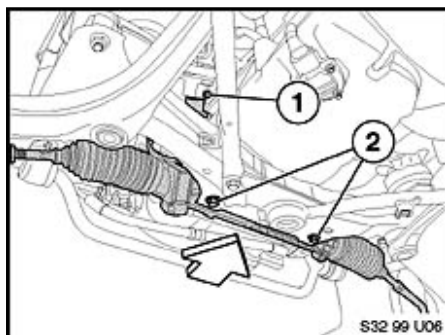
Unbolt rack from subframe (2) and pull down and forward (3).



Clean any dirt from around fittings and remove dampened lines from rack.
Cars produced before 4/99 will require part number 32 13 1 096 636.
Cars produced 4/99 and later will require part number 31 13 1 096 845.



Lubricate O rings on original style lines (without dampers) with ATF, and install (1). Tighten fittings to 7.5Nm.

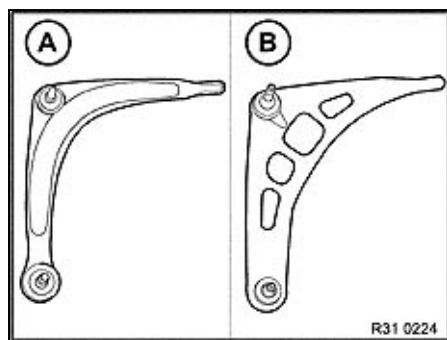


Reinstall rack bolts (2) with new nuts part number 31 35 1 095 452 and tighten to 42 Nm.
Connect rack to flexible coupling using a new bolt, part number 32 30 1 094 718, tighten to 22 Nm.

Reinstall splash shield, bleed steering and top up fluid as necessary.

- Replace front brake discs and pads per Repair Manual section 34 11 220
- Balance the front wheel assemblies, including "matching" the tire to the rim where necessary. Refer to Repair Manual section 36 10 508 and 36 10 713.
- Replace the control arm (wishbone) bushings with the latest design per Repair Manual Section 31 12 049. The part number required depends on the type of control arm installed in the vehicle. Refer to the

illustration below to determine numbers required.



Type A: Use kit part number 31 12 6 757 622

Type B: Use kit part number 31 12 6 757 623

Note: Pay particular attention to the Repair Manual procedures relating to the reinforcement tube, section 31 11 005, on cars so equipped, and to section 51 31 374 on cars equipped with a reinforcement panel. These procedures must be followed to ensure an effective repair.

PARTS INFORMATION

For cars produced prior to 10/99 that require replacement of the flex coupling:

Part Number	Description	Quantity
32 30 6 752 957	Flex coupling	1
32 30 1 094 718	Torx bolt M8 X 33	2

Brake discs and pads for 323i models:

Part Number	Description	Quantity
34 11 1 164 431	Brake Disc	2
34 11 6 752 482	Set Jurid 620 Brake Pads	1

Brake discs and pads for 325i and 328i models:

Part Number	Description	Quantity
34 11 1 164 539	Brake Disc	2
34 11 6 752 482	Set Jurid 620 Brake Pads	1

Brake discs and pads for 330i models:

Part Number	Description	Quantity
34 10 1 166 071	Brake Disc	2
34 11 6 754 705	Set Jurid 620 Brake Pads	1

Part Number	Description	Quantity
31 12 6 757 622	Control Arm Bushing Version A	1
31 12 6 757 623	Control Arm Bushing Version B	1
31 10 1 095 140	M10 X 35 Bolt with washer	4

Cars with a reinforcing tube:

Part Number	Description	Quantity
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31 10 6 757 145	Washer	2
31 10 1 095 140	M10 X 35 Bolt with washer	4

Cars with reinforcing panel:

Part Number	Description	Quantity
31 10 6 757 145	Washer	4
51 71 7 892 988	M10 X 30 Bolt with washer	8

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty.

Choose the appropriate Labor Operation from the following list, based on the level of repair required. **Only one operation may be claimed.**

Defect Code		34 00 93 56 00
Labor Operation:	00 52 331	Replace brake pads and rotors and control arm bushings, balance front wheels and tires.
Labor Allowance:	28 FRU	
Labor Operation:	00 52 332	Replace brake pads and rotors and control arm bushings, match and balance front wheels and tires.
Labor Allowance:	33 FRU	
Labor Operation:	00 52 327	Replace flex coupling, brake pads and rotors, and control arm bushings, balance front wheels and tires.
Labor Allowance:	30 FRU	
Labor Operation:	00 52 328	Replace flex coupling, brake pads and rotors, and control arm bushings, match and balance front wheels and tires.
Labor Allowance:	35 FRU	
Labor Operation:	00 52 329	Remove dampened steering lines. Replace flex coupling, brake pads and rotors, and control arm bushings, balance front wheels and tires.
Labor Allowance:	36 FRU	
Labor Operation:	00 52 330	Remove dampened steering lines. Replace flex coupling, brake pads and rotors, and control arm bushings, match and balance front wheels and tires.
Labor	40	

