

# Installation Instructions

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## ANTI-ROLL-KIT # 2003.320

BMW, 318i / 318is (E30), 2 & 4-door, 11/1982 - 12/1990

BMW, 318i Cabrio (E30), 11/1990-5/1993

BMW, 325i / 325is / 325e (E30), 2 & 4-door, 11/1982 - 12/1990

BMW, 325i Cabrio (E30), 5/1986 - 5/1993

Kit Contents	Description	Part Number	Qty
	Front Anti-Roll Bar	2003.320VA	1
	Rear Anti-Roll Bar	2003.320HA	1
	Instructions	2003.320INST	1
	Information Kit	EPAK	1
	Anti-Roll Hardware Kit	2003.320HK	1
	Anti-Roll Bushings Front 20mm	2003.3100	2
	Anti-Roll Bushings Rear 16mm	2003.3101	2
	Bracket	2003.3102	2
	Nut	2003.3103	2
	Bolt	2003.3104	2
	Bolt	2044.3101	2
	U-Bracket	2003.3105	2
	Nut	2003.3106	4
	Bolt	2003.3107	2
	Bolt	2013.3104	2
	Washer	2013.3105	4
	Nut	2013.3106	2
	Tie-Rod	2021.3MONTAGE	2
	Washer	4901.9109	4
	Lubricant	AR.LUBRICANT	2

### NOTES: Read All Instructions Before Beginning Installation

- Only qualified mechanics experienced in the installation and removal of suspension components should perform this installation.
- Use of a hoist and screw jack is highly recommended and will substantially reduce installation time.
- **Installation time:** Is approximate 2 hours with the use of a hoist.
- Never work on or under a vehicle unless it is properly supported.

**Tire Rotation:** In order to increase the life of your tires, it is recommended to rotate your tires every 3,000 miles

### Additional Eibach Components Available For Your Car

Eibach Kits	Part Number	Description /	Front	Rear
<i>Pro-Kit</i>	2003.140	11/82-12/90, 318i (Exc. Cabrio)	1.6"	1.0"
	2010.140	11/90-5/93, 318i Cabrio	1.5"	1.0"
	2003.140	11/82-12/90, 325e, 325is, 325i	1.6"	1.4"
	2010.140	5/86-5/93, 325i Cabrio	1.7"	0.8"

## REMOVING THE FACTORY FRONT ANTI-ROLL BAR

- Loosen and remove the stock middle bushing brackets (left & right side). **Do not discard these brackets, as they will be needed to reinstall the *Eibach* anti-roll bar.**
- Loosen and remove the end links from the anti-roll bar arms (left & right side). **Do not discard the nuts and bolts, as they will be needed to reinstall the *Eibach* anti-roll bar.**
- Loosen and remove the two M10 bolts at the rear part of the right side wishbone.
- Remove the stock anti-roll bar.

## INSTALLING THE *EIBACH* FRONT ANTI-ROLL BAR

- Lubricate the new *Eibach* middle bushings with the lubricant (supplied).
- Position the new middle bushings on the *Eibach* anti-roll bar in the same position as they were installed on the factory bar.
- Reinstall the two M10 bolts at the rear part of the right side wishbone.
- Align the middle bushings (left & right), install the factory brackets and tighten to the vehicle chassis.
- **It is important at this time to verify the bar is centered left to right.**
- Position the end links at anti-roll bar arms (left & right), align the flat ends of the anti-roll bar with the middle drill hole to the end links and reinstall the factory nuts and bolts
- Tighten all nuts and bolts used in the installation of the anti-roll bar to the factory torque specifications.

**This particular bar is adjustable; the following explains how the adjustments can be made and what can be achieved by making these adjustments:**

- A softer or firmer handling affect may be achieved through the three adjustment holes at the end of the anti-roll bar arms.
- Adjustment A - (Soft Characteristic), End link assemblies/tie rods in the first hole of the flat end or outer hole.
- Adjustment B - (Medium Characteristic), End link assemblies/tie rods in the second hole of the flat end or the middle hole.
- Adjustment C - (Stiff Characteristic), End link assemblies/tie rods in the third hole of the flat end or inner hole.

## REMOVING THE FACTORY REAR ANTI-ROLL BAR

- Loosen and remove the stock middle bushing brackets (left & right side). Discard these brackets, as *Eibach* supplies new bushing brackets in the hardware kit.
- Loosen and remove the end link assembly/tie rod from the anti-roll bar arms (left & right side).
- Loosen and remove the left side lower shock-mounting bolt from the lower trailing arm. **Do not discard this bolt, as it will be reused for reassembly.**
- Lower the left side lower trailing arm and remove the coil spring.
- Remove the anti-roll bar.

## INSTALLING THE *EIBACH* REAR ANTI-ROLL BAR

- Lubricate the new *Eibach* middle bushings with the lubricant (supplied).
- Position the new middle bushings on the *Eibach* anti-roll bar in the same position as they were installed on the factory bar.
- Loosely attach the anti-roll bar to the vehicle chassis using the new brackets (supplied).
- Reinstall the coil spring and reattach the lower shock mount to the lower trailing arm.
- Assemble the new end link assemblies/tie rods (left & right) and attach to the supplied U-bracket w/stud to the trailing arm, using the middle holes on the *Eibach* anti-roll bar.
- Tighten all nuts and bolts used in the installation of the anti-roll bar to the factory torque specifications.

**This particular bar is adjustable; the following explains how the adjustments can be made and what can be achieved by making these adjustments:**

A softer or firmer handling affect may be achieved through the three adjustment holes at the end of the anti-roll bar arms.

- Adjustment A - (Soft Characteristic), End link assemblies/tie rods in the first hole of the flat end or outer hole.
- Adjustment B - (Medium Characteristic), End link assemblies/tie rods in the second hole of the flat end or middle hole.
- Adjustment C - (Stiff Characteristic), End link assemblies/tie rods in the third hole of the flat end or inner hole.