

HOTCHKIS SPORT SUSPENSION



BMW E46 3 SERIES SPORT SWAY BAR SET # 22825

**Thank you for your purchase from our new line of BMW E46 parts.
Please call us at (877) 4NO - ROLL if you have any questions
regarding the service or installation of your Hotchkis products.
Visit us online @ www.hotchkis.net**

Tools required:

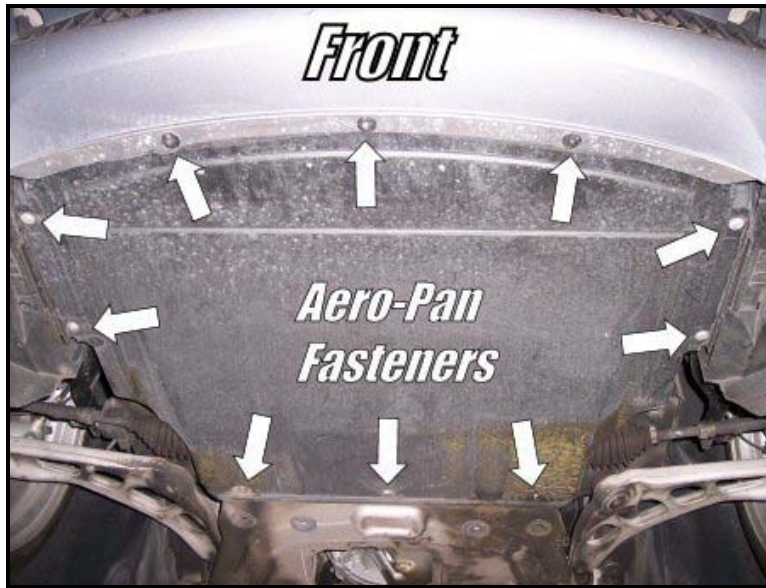
- Hydraulic jack, jack stands, or 4-post lift (shown) torque wrench
- The following sockets or wrenches: 12mm, 13mm, 14mm, 16mm, 17mm,
- The following Allen wrenches: 6mm

INSTALLATION OF HOTCHKIS FRONT SWAY BAR

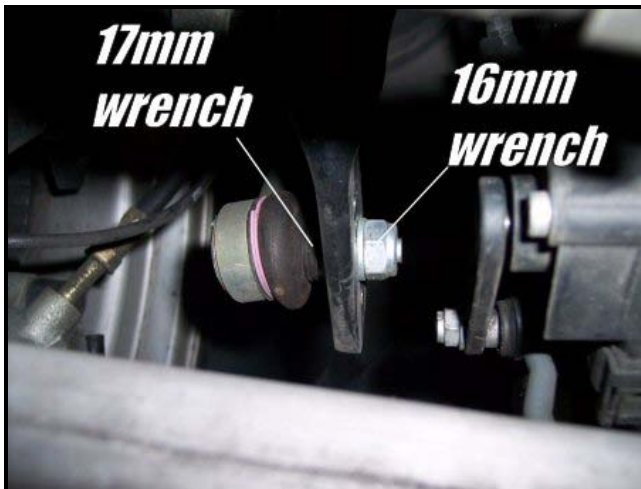
- 1) Drive the front of the vehicle onto floor ramps and securely block the rear wheels of the vehicle. If ramps are not available, use a jack to lift up the front of the vehicle and use jack stands to support it. Do not remove the front wheels during installation for safety.



- 2) Once the vehicle is raised, use a Phillips screwdriver and remove the aero-pan fasteners. Let the pan hang from the front in order to expose the stock front sway bar.



- 3) Take a moment and observe the stock front bar and the way in which it is mounted.
- 4) Remove the lower end link nuts using a 16mm wrench and a 17mm wrench for the wrench flat on the end link itself. Now remove the four bushing bracket nuts and the bar will be free. Save the end link and bushing bracket nuts.



- 5) Apply grease along the inside surface of your polyurethane bushings and attach them to the Hotchkis bar in the approximate mounting locations. Slip the new brackets over the bushings.



- 6) Lift the bar up to the vehicle. The two smaller H-Sport Stickers at the bar's end's should be right-side-up. As you lift the bar to the mounting points, you must place one spacer plate per side between the bushing and the mounting point. This relocates the bushing out of the stock bushing pocket.



- 7) Re-install the bracket nuts and tighten. The front uses the larger of the 2 brackets we provide. Then re-install the end link ends and nuts on one of the three available adjustment holes. We suggest the softer adjustment or the holes at the bar's ends.



- 8) Double-check all hardware once again to make sure all is tight.
- 9) Re-install the aero pan.



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INSTALLATION OF HOTCHKIS REAR SWAY BAR

- 1) Drive the rear of the vehicle onto floor ramps and securely block the front wheels of the vehicle. If ramps are not available, use a jack to lift up the rear of the vehicle and use jack stands to support it. Do not remove the rear wheels during installation for safety



- 2) Once the vehicle is raised, take a moment and observe the stock rear bar and the way in which it is mounted.
- 3) Free the stock end links from the upper mount within the cast suspension arm for both the driver and passenger sides using a 17mm socket for the top and 13mm socket for the under-side of the arm. You will not re-use the stock end links.



- 4) Remove the stock bushing brackets on both the driver and passenger sides.



- 5) The stock rear bar is now free and can be removed as shown below. If you are having clearance problems, you may have to remove the bushings and brackets or even twist the end links forward to remove the bar.



- 6) Pay close attention to the way the stock end links are mounted to the brackets. These brackets will be used to mount the new end links to the upper cast arms. Remove the stock end links from these brackets and then mount them to the H-Sport end links using the stock hardware. Pay close attention to zerk fitting direction. The lower Zerk Fitting points towards the rear of the car.



- 7) Again using the stock hardware, install the end links to the cast suspension arms making sure the lower grease fitting points towards the rear of the car.

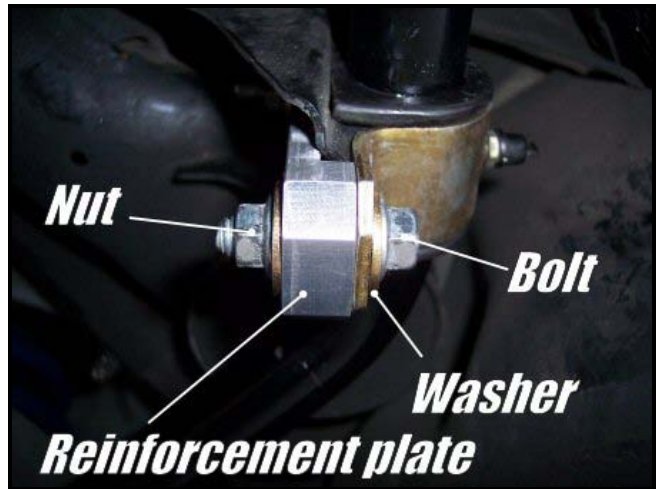


- 9) Apply grease along the inside surface of your polyurethane bushings. Install the rear bushings onto the bar at the approximate mounting location. Now you may install the Hotchkis rear bar with the H-Sport sticker facing the rear, right side up.

Note: The bar ends will mount to the inboard side of the end links.



- 10) Next, slide the bushing brackets over the bushings. Position the bracket onto the stock mounting point. You will need to install the provided aluminum reinforcement plate on the backside of the mount. Fasten the bushing bracket and reinforcement plate together using the provided hardware.



- 11) Attach the end links to the bar ends (inner hole for more roll resistance and the outer hole {near the ends} for less roll resistance) using the 10mm bolts, nylock nuts and small and large washer. Use the large diameter washer to capture the outboard side of the end link bushing and the smaller washer for the inboard side against the sway bar end.



12) ***Adjustable length end links***

It may be necessary to adjust the length of the end links for proper sway bar clearance from the drive axles. The procedure for this is quite simple.

- Raise the rear end of the car until the rear suspension is fully extended (i.e. wheels are not touching the floor). This is full droop.
- At this full droop state, check to see if the sway bar is approximately 1/8" away from the drive axle. If not, loosen the hardware and adjust the length accordingly. Having approximately 1/8" of clearance will ensure that the sway bar will never contact the drive axle.
- Adjusting the end link length is as easy as loosening the jam nut and rotating the lower body in or out. You must perform step 11 after each adjustment to determine sway bar clearance.



- 13) Next, fully tighten the jam nut on the end link using an 11/16" open-end wrench. Make sure the heim joint is centered. You may need a flat screw driver or similar tool to hold the heim joint in positioned while you tighten the jam nut.



- 14) Check all hardware once again to make sure everything is tight.

Enjoy you new tubular sway bar kit from Hotchkis! If you need assistance with the install or have any other questions, go to the "instructions" button on our site or call us at the number below.

Thank you for choosing the best sway bar kit available for your E46 3 Series!

Hotchkis Performance
562.907.7757
www.hotchkis.net
12035 Burke St. Suite 13
Santa Fe Springs, CA 90670

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*BMW E46 3 SERIES
SPORT SWAY BAR SET
22825*

	Hotchkis P/N	Item Description	Quantity
1	22810285	Front Anti Roll Bar	1
2	22910285	Rear Anti Roll Bar	1
3	15.12.06.39	Front Bushing Brackets	2
4	23090210	Rear Bushing Brackets	2
5	5348G	Front Bushing 1-3/16"	2
6	5708.01	Rear Bushing 1"	2
7	23410198	Front Spacer Plate	2
8	23410285	Rear Reinforcement Plate	2
9	25826	E46 Endlink Kit	1
10	1746	Hardware Kit, BMW E46	1
11	9.11108	Grease Pack	2
Optional Accessories			
A	25827	E46 Endlink Kit for Lowered Vehicles	1



Hotchkis Performance LLC Return Policy & Limited Warranty

Effective December 1, 2010 all Hotchkis products must be registered to qualify for warranty at www.hotchkis.net or via the mail-in warranty card, included with the product, within 30 days of the original purchase date.

IMPORTANT: This warranty supersedes all other warranties included with this product.

Return Policy

We want you to be completely satisfied with your Hotchkis Performance product. For products, presenting signs of shipping damage please contact the freight carrier immediately. All our products are guaranteed to be free from manufacturer's defects. If your order arrives with a manufacture defect, please contact our Customer Service Department at (562) 907-7757. You will be assigned a Returned Goods Authorization Number (RGA). The package you return must show the RGA on the outside of the package, include the original invoice and be shipped prepaid to our facility. The product has to be unused and in its original packaging materials. Exchanges or refunds made after 30 days will be subject to a 20% restocking charge. **If you purchased your Hotchkis Performance product from an authorized dealer, you are still covered by this return policy. All returns however, should be made to your dealer, not to Hotchkis Performance directly.**

Limited Warranty

Hotchkis Performance offers a Limited Warranty against defects in materials and workmanship for the term of 36 months (3 years) from the date of purchase of this product. This Warranty only applies to the original retail purchaser who retains ownership of the vehicle on which the product was originally installed. If the product is determined to be defective, Hotchkis Performance will repair, replace or refund the purchase price of the defective product at Hotchkis Performance's sole discretion, which shall fully satisfy and discharge any and all warranty claims. Any repaired or replaced product will be returned to the sender excluding the cost of freight. **Products must be registered to qualify for warranty at www.hotchkis.net or via the mail-in warranty card, included with the product, within 30 days of the original purchase date.**

Exclusions from Warranty

Items offered but not manufactured by Hotchkis Performance are warranted according to the manufacturer's terms and are not covered by this limited warranty. Hotchkis Performance shall not be responsible for any labor, removal, installation, re-installation or maintenance costs. This warranty does not cover the cosmetic finish or plating of any product or any normal wear and tear to any product including, but not limited to bushings, brackets, end-links, hardware, steering components, shocks or springs. In addition, this warranty does not apply to any products that have been:

- Improperly installed or installed by someone other than a qualified, licensed auto mechanic experienced in the installation and removal of suspension products;
- Improperly serviced, misused, or modified, altered or subjected to abuse, negligence, accident or collision;
- Installed in any vehicle that has been modified;
- Installed on any vehicle that has carried loads in excess of automobile manufacturer suggested weight limits; or
- Installed on any vehicle that has been subject to abnormal or excessive use, including rallying, racing, or racing-type activities or off-road use.

Limitation of Warranty

This limited warranty is the entire and only warranty for the products and may not be modified or supplemented by any other person or company in any form. Any description of the products, by anyone, is for the sole purpose of identifying them and is not part of the basis of the bargain, and does not constitute a warranty that the products will conform to that description. The statements of any salesperson do not constitute part of this limited warranty and cannot be relied upon as a warranty.

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH EXTEND BEYOND THE

DESCRIPTION ON THE FACE HEREOF. ANY IMPLIED WARRANTIES ARE DISCLAIMED TO THE FULLEST EXTENT PERMITTED BY LAW. THIS WARRANTY DOES NOT COVER CONSEQUENTIAL DAMAGES, LOSS OF TIME OR REVENUES, INCONVENIENCE, LOSS OF USE OF THE VEHICLE, DAMAGE TO THE VEHICLE OR COMPONENTS OF THE VEHICLE, ANY OTHER TYPE OF CONSEQUENTIAL DAMAGES, OR OTHER INCIDENTAL OR INDIRECT DAMAGES. HOTCHKIS' MAXIMUM LIABILITY UNDER THIS WARRANTY SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages and in such states the above limitations or exclusions may not apply. This limited warranty gives the purchaser specific legal rights and the purchaser may have other rights that may vary from state to state.

Technical Information

Hotchkis Performance makes every effort to ensure that you are provided with the most accurate and up-to-date technical information. However, all technical information is approximate and may vary upon application. Additional suspension components may be needed in some applications, depending upon the make, model, engine and chassis of the vehicle. Hotchkis Performance is not responsible for any consequences resulting from manufacturer's technical mid-year changes. Hotchkis Performance products should only be installed by a qualified, licensed auto mechanic experienced in the installation of such products.

Warranty Claim Procedure:

The answer to ALL the following questions should be YES before making a warranty claim:

- Did you register the product at www.hotchkis.net or via the mail-in warranty card within 30 days of purchase?
- Is the product appropriate to your application?
- Did you carefully and thoroughly read the instructions provided along with the product?
- Do you have the original invoice or sales receipt?
- Is the return date within 36 months from the purchase date?
- Are you the original purchaser?
- Was the product properly installed by a qualified, licensed auto mechanic?
- Has the product been installed on the original vehicle on which it was installed at all times?
- Is the product unmodified and clean?
- Is the reason for return a legitimate product defect?

If the answer to all these questions is YES, please contact our Customer Service Department at (562) 907-7757. You will be given a Returned Goods Authorization Number (RGA) valid for 60 days. You will also be asked to ship the product prepaid to our facility. All shipments MUST be (i) prepaid, (ii) include the original invoice or sales receipt, (iii) show the RGA on the outside of the package and (iv) include your name, address, make and model of the vehicle, and a brief description of the claimed defect, including the circumstances under which the defect occurred. If the warranty claim is deemed valid then Hotchkis will estimate shipping costs to return the repaired or replacement part and contact you for payment. Hotchkis's Limited warranty requires that any repaired or replaced product will be returned to the sender excluding the cost of freight. Warranty related inquiries should be sent to the following address:

**HOTCHKIS PERFORMANCE, LLC
C/O CUSTOMER SERVICE
8633 Sorensen Avenue
SANTA FE SPRINGS, CA 90670**

Hotchkis Performance will not accept product returns without the RGA number, receipt and the information described above. C.O.D. or collect shipments will be refused. Once the returns are received at Hotchkis Performance, we will evaluate the products, verify the sales receipt, and investigate the warranty claim. Any repaired or replaced product will be returned to the sender.

Effective December 1, 2010. This return policy and limited warranty supersedes all previous policy and warranty statements. Policies and warranties are subject to change without notice. Hotchkis Performance is not responsible for printing errors.