

# HOTCHKIS HOTCHKIS SPORT SUSPENSION

## Mustang Delta™ Caster/Camber Plate Instructions

#3001 1979-'93 Mustang

#3002 1994+ Mustang

Thank you for your purchase of this Hotchkis product. Your Delta™ Plates were designed with the performance and durability you've come to expect from Hotchkis Performance. If you have any questions regarding installation, please do not hesitate to call Hotchkis Performance directly, we will be more than happy to help. (562) 907-7757 8:00 AM – 5:30 PM PT Mon. – Fri.

- 1.) With the rear wheels securely blocked, raise the front of the vehicle and support securely with jack stands. Using masking or duct tape place one piece on each axis of the strut tower/fender well. Use a felt tip pen to mark the location of the strut on the strut tower/fender well. This will enable you to return the strut to the previously established alignment setting.
- 2.) Remove the front wheels; disconnect one sway bar end link and place floor jack under the front control arm. Lift arm up until the weight has been taken off the upper strut mount. **Do not lift the chassis off the jack stands.**
- 3.) Remove the nut at the top of the strut with an impact wrench or two open-end wrenches. Lower the control arm down slowly, stopping the jack before binding or pinching the brake line. Then remove the strut from the spindle by unbolting the two bolts that connect the strut to the spindle.
- 4.) Remove the stock plastic boot and bump stop. Place the plastic ring over the new bump stop. Put the new boot and bump stop on the strut.



- 5.) Remove the stock upper strut mount from the car. If mount is held with a rivet it must be drilled out. Remove the L- Bracket from the Hotchkis Delta™ plate.
- 6.) Reaching into the fender well, insert the bolts upward through the holes in strut tower through the Delta™ plate. Attach the Delta™ plate with the washer and nuts. Keep them loose enough that camber can be adjusted.

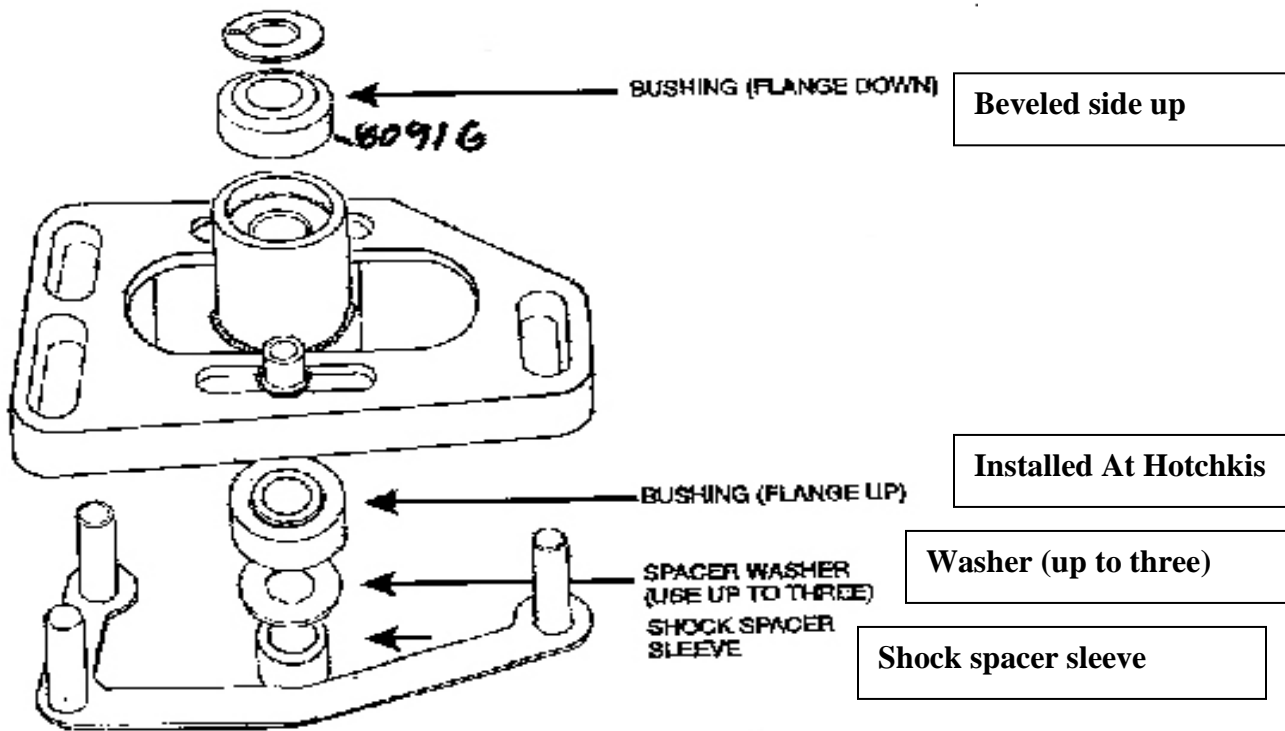


- 7.) Place the spacer sleeve and washers on the strut shaft. Depending on what kind of strut your using the amount of spacer washers will vary. We recommend to start with one then work your way up. What the spacer washers are for is to figure out how much the strut shaft sticks out of the Delta™ plates for hood clearance. **Do not close hood before checking.**



- 8.) Re- attach the strut to the spindle
- 9.) Insert the strut shaft through the Delta™ plate. Then place the polyurethane bushing with the beveled edge up. Put on the flat washer and the strut nut, tighten with impact wrench or open end wrenches until polyurethane just starts to bulge at sides. **Make sure both polyurethane bushings; spacer and spacer washers are installed. See Drawing on next page.**





- 10.) Put your end link back on.
- 11.) With the Delta™ Plate hardware slightly loose slide the strut to original alignment settings using pen marking as the guide. Then snug down and check hood clearance. **Do not close hood before checking.** With one washer between the spacer sleeve and the lower poly bushing the strut can hit the inner hood support. This setup will provide the ultimate shock travel but will dent the inner hood support. Installing up to three spacer washers between the spacer sleeve and lower poly bushing can move down the strut. Lowered cars will benefit from more shock travel. Once the spacers are determined, tighten 8mm bolts to 20 ft. lbs., and 12mm nuts to 40. Lbs.
- 12.) Lower jack and repeat for the other side.
- 13.) Test drive car and check bolt and nut tightness.



Note: Not Recommended For Coil Over Applications

Suggested Performance Alignment Settings:

1979-“93

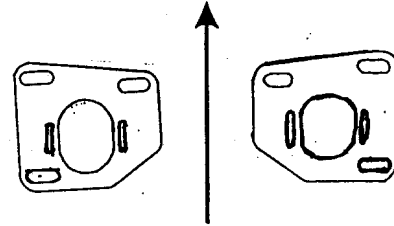
Toe: 1/16" IN Total Toe  
Camber: 1/2 Degrees Negative  
Caster: 2 Degrees Positive

1994 +

Toe: 1/16" IN Total Toe  
Camber: 1/2 Degrees Negative  
Caster: 3.8 Degrees Positive

**3002 ONLY**

**FRONT OF CAR**



More aggressive settings are easily accomplished with the Delta™ Plates.





## 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](http://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](http://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](http://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 inquires 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.**