

# HOTCHKIS SPORT SUSPENSION

*Sport Coil Springs (19425)  
Scion tC*



Thank you for your purchase from our new line of Scion tC 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](http://www.hotchkis.net)

#### Tools Required for this Installation

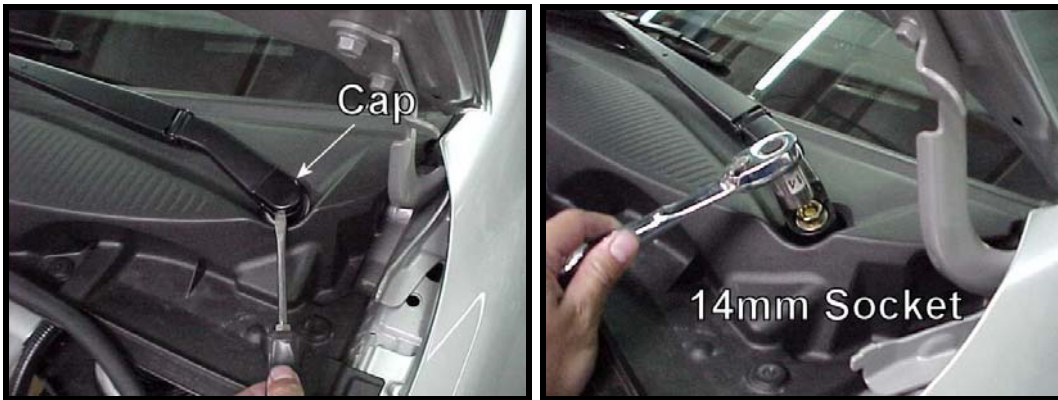
- Hydraulic jack, jack stands, torque wrench
- Coil spring compressor (most major auto parts chains can rent these out)
- The following sockets or wrenches: 10mm, 12mm, 13mm, 14mm, 19mm, 21mm, 22mm
- The following Allen wrenches: 6mm

### ***INSTALLATION OF HOTCHKIS FRONT COIL SPRINGS***

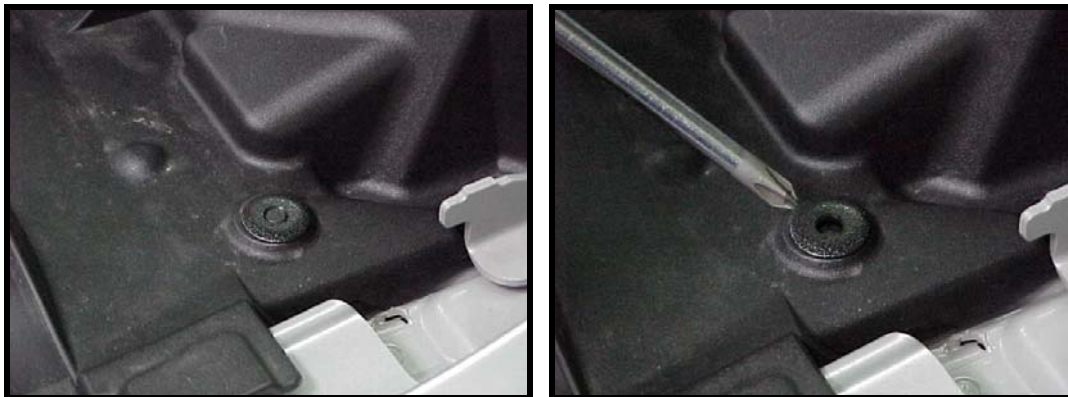
- 1) Securely block the rear wheels of the vehicle. Use a jack to lift up the front of the vehicle and use jack stands to support it. Remove the front wheels.
- 2) Pop open your hood and locate the plastic cowl panel. You will need to remove this in order to access the top strut bolts.



- 3) Remove the driver and passenger side windshield wiper arms by popping off the plastic caps and removing the nuts with a 14mm socket. Please make a note of which side is driver and passenger for re-installation.



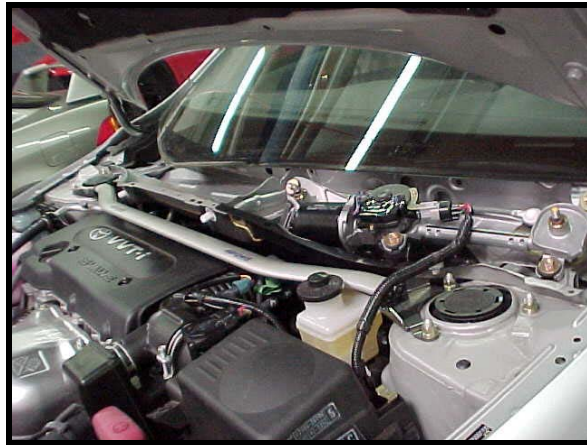
- 4) Next, remove the 4 plastic trim clips (2 per side) located on top of the cowl panel. Simply push down on the center section of each fastener with a Phillips screwdriver and they will come right out.



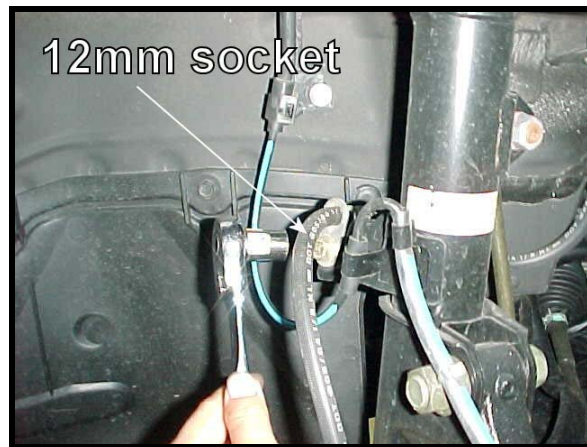
- 5) Spanning across the cowl panel is a rubber weather stripping which also clips into the cowl framing on each end and in the center of the panel. Carefully pop out each clip by using a needle nose pliers from underneath the cowl framing.



- 6) You should be able to remove the cowl panel by pulling forward. Now we can start removing the struts.



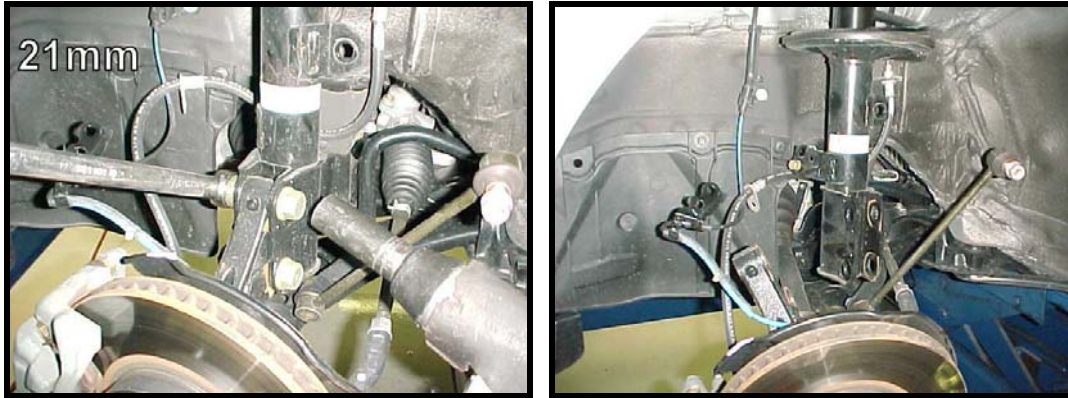
- 7) Remove the brake line/ABS bracket bolt using a 12mm socket. The ABS bracket should detach from the strut housing at this point.



- 8) Next, Remove the nut attaching the anti roll bar end link to the strut body using a 17mm wrench or socket. If the ball joint stud starts spinning while you're loosening the nut, use a 6mm Allen wrench to hold the stud.



- 9) Remove the 2 nuts and bolts that attach the strut to the spindle/knuckle using 21mm socket and wrench. At this point, everything under the fender should be detached from the strut.



- 10) The only thing holding the strut to the car should be the 3 strut tower bolts. Loosen and remove each nut one at a time using a 14mm deep socket. When removing the last nut, reach down underneath the fender and hold onto the strut to keep it from falling.



- 11) Now that the strut is out of the car, set it in your spring compressor to clamp the spring. Remove the rubber cap to expose the shaft nut. After the spring is safely clamped down, remove the shaft nut using a 19mm socket.



Tip: If at all possible, try to use an impact wrench to loosen the shaft nut.

- 12) Remove the upper mount plate, top spring perch, rubber boot and the sponge bumpstop from the strut assembly.



- 13) Slowly decompress the spring and remove the stock coil.
- 14) Next, install the included Hotchkis polyurethane bumpstop as shown below.



- 15) Make sure to keep the stock rubber seat for the lower perch. Also confirm that the rubber seat is oriented to match the lower perch.



- 16) Place your new Hotchkis coil spring onto your strut as shown below. Again, safely clamp down the spring to install the remaining hardware.



- 17) The rubber boot and the upper spring perch both have offset centers, so you will need to orient these correctly. The rubber boot has a small tab indicated in the picture. The upper spring perch has a cut out section in a similar fashion. When installed the tab will sit inside the cut out section and they will both be facing towards the spindle bracket mount on the strut.



Make sure the Upper Spring Perch center hole is matched with the shock shaft. You will notice that the hole has a specific shape. You must match this shape with the corresponding shock shaft shape. See pictures for details.



- 18) Next, place the upper mount plate on the shaft and secure it with the shaft nut. Fully tighten the shaft nut at this time.



- 19) Slowly decompress the spring, making sure the top of the coil sits properly on the rubber seat of the boot. Don't forget to pop on the rubber cap over the shaft nut.



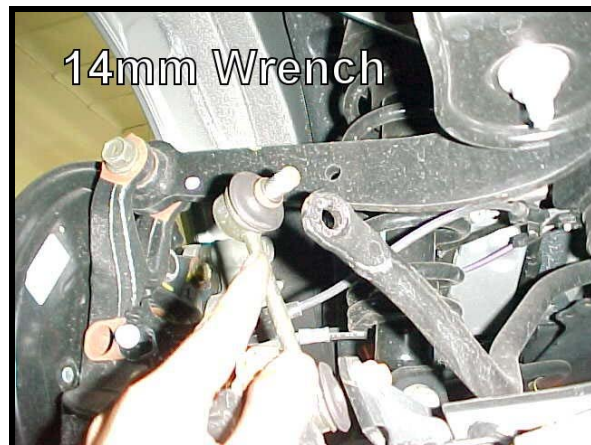
- 20) Reinstall the strut assembly into the vehicle in reverse order using steps 1-10.

You are now finished with the front coil spring installation! Make sure all hardware is fully tightened before driving the vehicle. Now let's move on to the Rear Coil Spring installation.

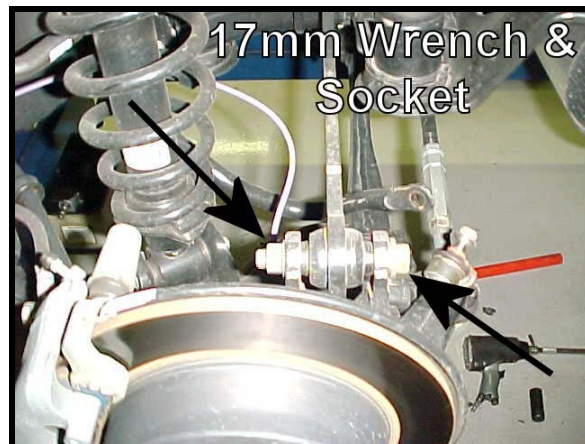


## ***INSTALLATION OF HOTCHKIS REAR COIL SPRINGS***

- 1) Securely block the front wheels of the vehicle. Use a jack to lift up the rear of the vehicle and use jack stands to support it. Remove the rear wheels.
- 2) Locate the rear anti roll bar end links and remove the nut that secures the end link to the anti roll bar. Use a 14mm wrench.



- 3) Next, remove the nut and bolt that secures the upper control arm to the rear spindle using a 17mm wrench and socket.



- 4) Remove the nut and bolt that secures the bottom of the shock to the lower control arm using a 19mm wrench and socket. At this point, everything under the fender should be detached from the shock.

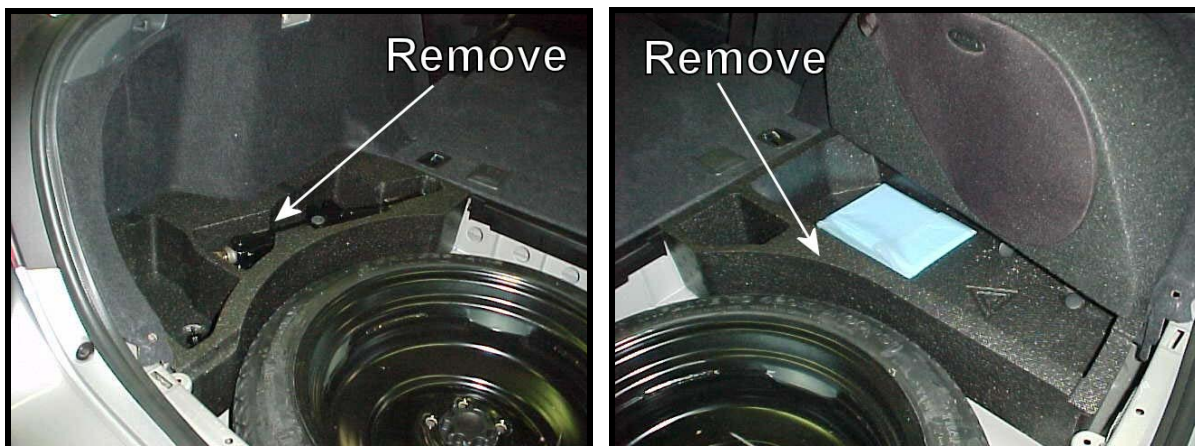
Note: This bolt may be very tight. If this is the case, try using a long socket wrench with a long pipe over the handle to break the bolt loose.



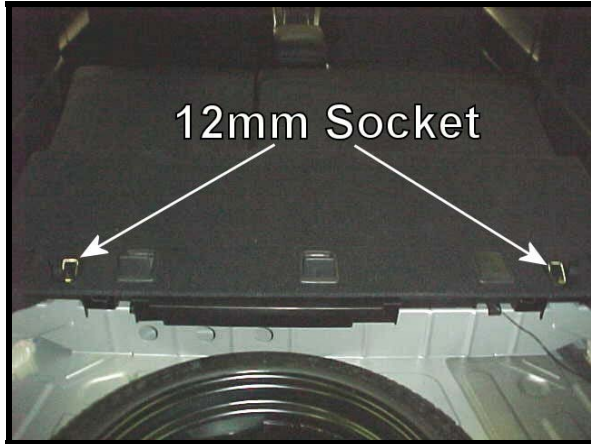
- 5) The only thing holding the shock assembly to the car are 3 shock tower bolts which can be located inside the trunk. However, you will need to remove some interior panels in order to access them.
- 6) Inside the trunk, remove the trunk canopy and trunk mats to expose the spare tire. The edge panel located around the trunk lower latch should pop off rather easily.



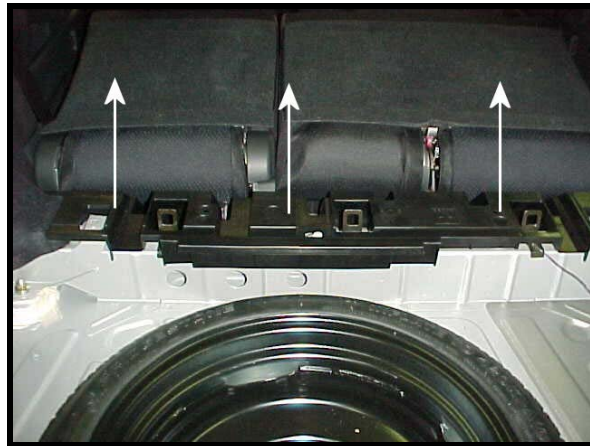
- 7) Next, remove the 2 styrofoam containers on each side of the spare tire.



- 8) Remove the carpeted panel located at the bottom of the seat back by removing the 2 bolts with a 10mm socket. These bolts are on each side of the panel. Use a flat screw driver to expose the bolts.



- 9) The plastic piece located underneath the panel you just removed will detach from the car by simply pulling it up.



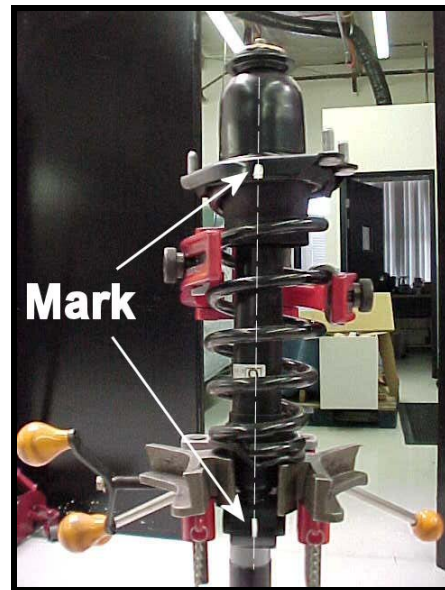
- 10) On each side of the car, you should be able to slightly fold back the carpet to see the 3 shock tower bolts. Use a 14mm wrench to remove the bolts.



- 11) The shock assembly should be free and ready to be put onto the spring compressor.



- 12) Before you remove the spring, you will need to mark the orientation of the upper spring perch relative to the shock body. Do this by using a paint marker or white out. Also try to mark the rubber boot seat as well.



- 13) Carefully clamp the spring with your spring compressor and remove the plastic cap to expose the shaft nut. Remove the shaft nut using a 17mm socket.

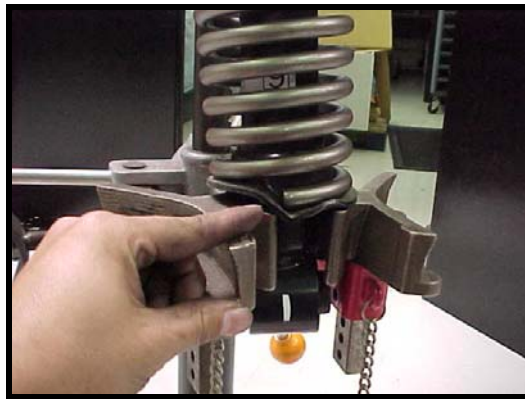
Tip: If at all possible, try to use an impact wrench to loosen the shaft nut.



- 14) Remove the upper spring perch, rubber boot seat, and the foam bumpstop.



- 15) Carefully decompress the stock spring and remove it from the shock assembly. Place your new Hotchkis coil spring in its place. Double check to make sure the spring's lower pigtail sits in the lower perch correctly. You can now safely compress the spring.



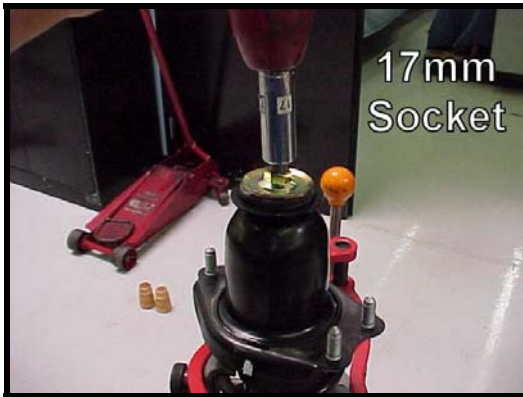
- 16) Notice the stock bumpstop is attached to a retaining washer, which needs to be reused with the included polyurethane bushing. Once attached, place the new bushing on the shock shaft.



- 17) Install the rubber boot seat and upper spring perch onto the shock shaft. Remember to line up marks you made.



- 18) Install the washer and shaft nut onto the shaft and fully tighten the nut. Once the nut is tightened, carefully decompress the spring and make sure the top of the coil sits properly on the rubber boot seat. Don't forget to pop the plastic cap on the top.

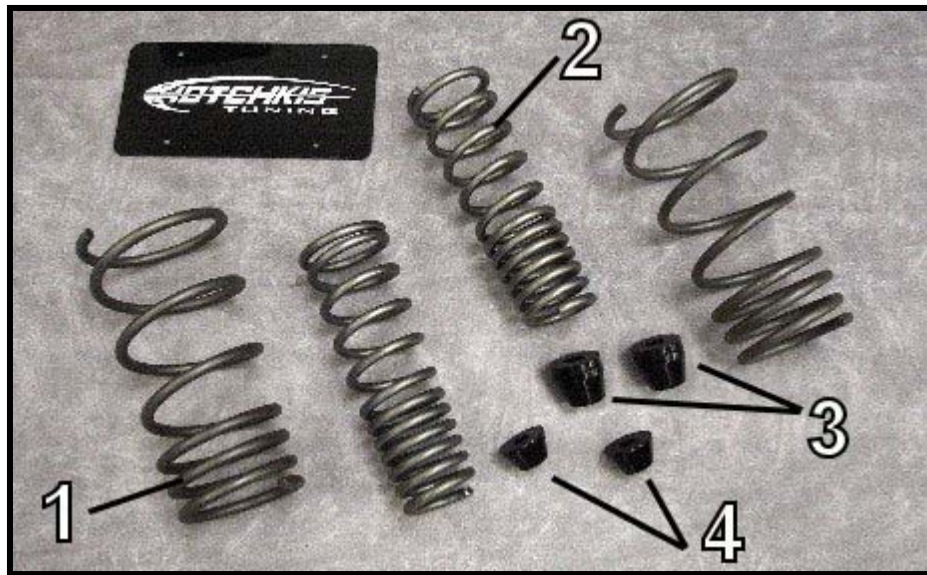


- 19) Reinstall the shock assemblies in reverse order using steps 1-10.

You are now finished with the rear coil spring installation! Make sure that all hardware is fully tightened before driving the vehicle. Enjoy your new Hotchkis Sport Coil Springs!

## Sport Coil Springs (19425) *Scion tC*

	Hotchkis P/N	Item Description	Quantity
1	19830271	Front Coil Springs, Scion tC	2
2	19930271	Rear Coil Springs, Scion tC	2
3	6016.01	Front Polyurethane Bumpstop	2
4	6201.01	Rear Polyurethane Bumpstop	2





## Hotchkis Performance LLC Return Policy & Limited Warranty

Effective January 1, 2009 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.

### 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 of its products. 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?
- 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  
12035 BURKE ST. SUITE 13  
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 January 1, 2009. 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.**