

# HOTCHKIS SPORT SUSPENSION

## SPORT COIL SPRINGS 2004+ Scion xA & xB Part #19412



**Thank you for your purchase from our new line of Scion xA / xB 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:

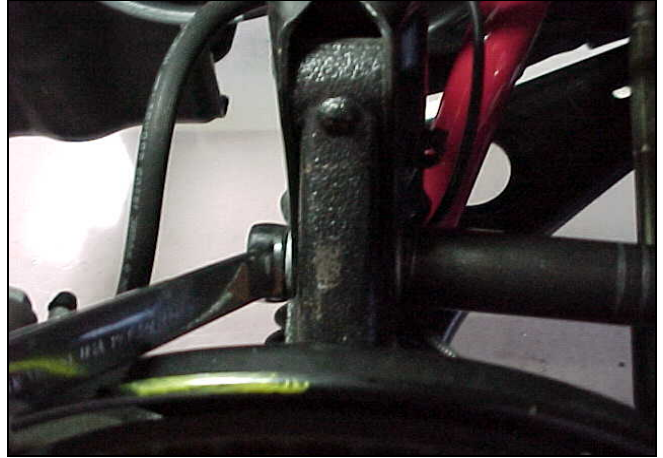
- Hydraulic jack, jack stands, torque wrench
- Coil spring compressor (most major auto parts chains can rent these out)
- The following sockets or wrenches: 10mm, 12mm, 13mm, 14mm, 19mm, 21mm, 22mm
- The following Allen wrenches: 6mm

### INSTALLATION OF HOTCHKIS FRONT COIL SPRINGS

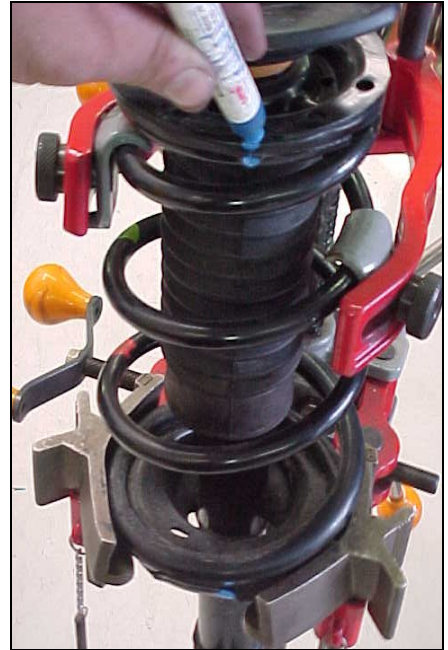
- 1) Securely block the rear wheels of the vehicle. Use a jack to lift up the front of the vehicle and use jack stands to support it. Remove the front wheels.
- 2) Use a 14mm wrench or socket to loosen and remove the hardware holding the brake line and ABS sensor to the front struts. Retain the hardware for later re-installation.



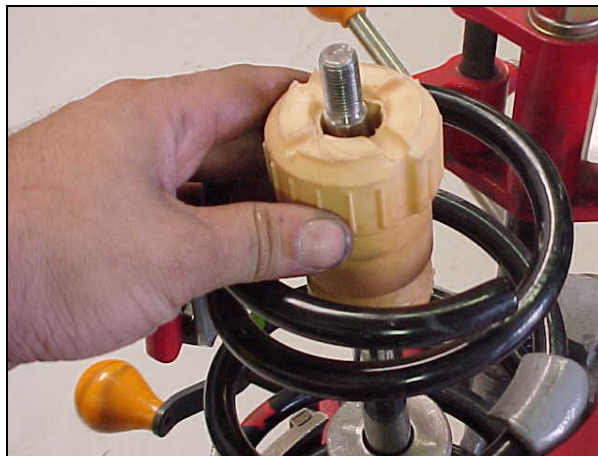
- 3) Use a flat head screwdriver and disconnect the ABS line clip.
- 4) Use a 19mm socket and wrench to loosen and remove the two bolts holding the base of the strut to the spindle. Use a 12mm socket or wrench to loosen and remove the nuts retaining the top of the strut. *The strut will now be free and can drop out of the vehicle.* Use caution to avoid dropping the strut, as this could damage the strut or the vehicle.



- 5) Place one of the struts into the coil spring compressor and collapse the spring until the upper strut plate is no longer under tension. Using a marking device mark the upper and lower spring seat. Remove the rubber dust cover on the top of the strut. Use a 17mm socket to remove the retaining nut at the top of the strut. Retain the hardware for later Re-installation.



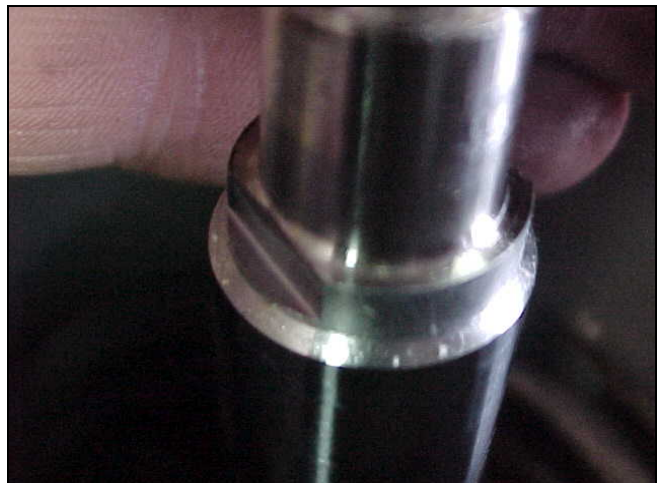
- 6) Remove the upper strut plate, upper spring seat, rubber dust shield / spring isolator, and the stock bump stop from the end of the strut. This should leave the stock spring completely exposed. Slowly release the compression on the spring and remove the stock spring.



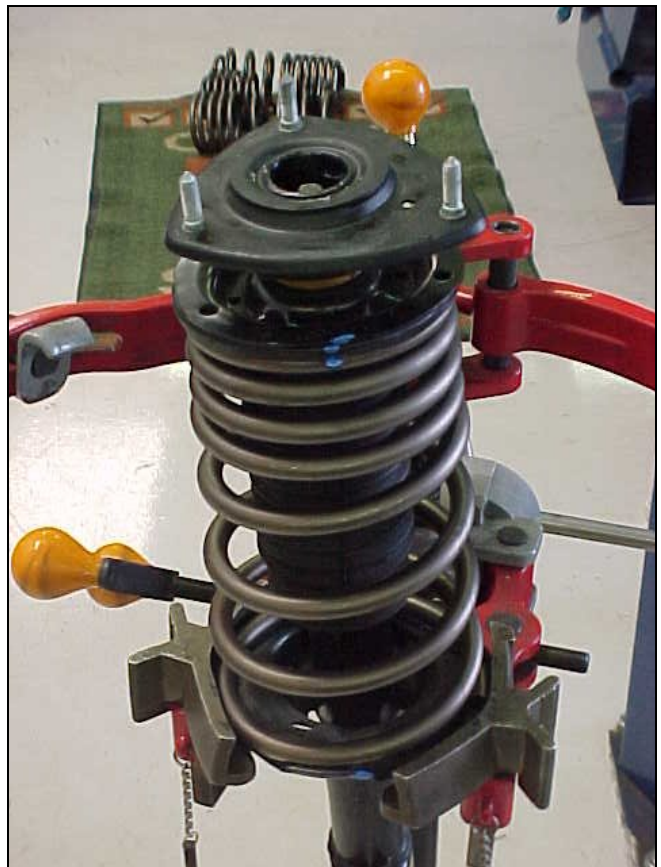
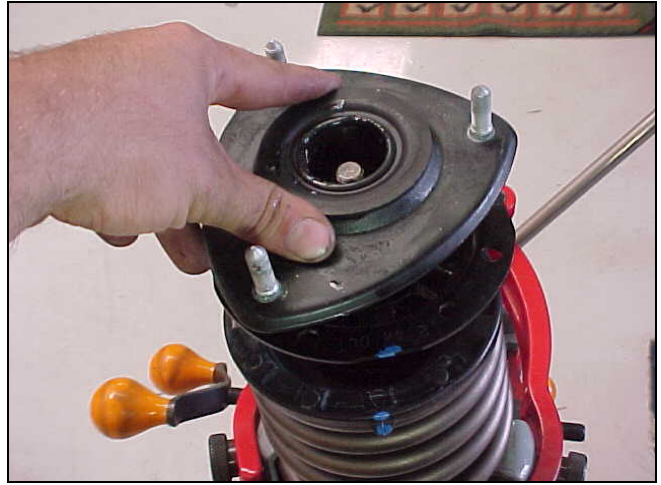
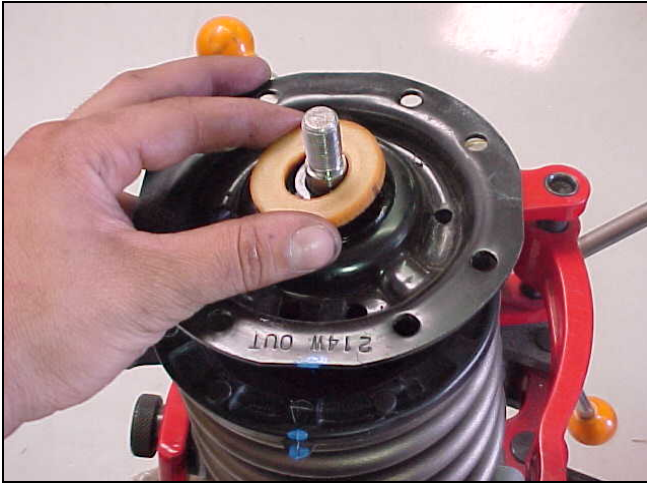
- 7) Slide the new bump stop over the end of the strut with the narrow end facing towards the bottom. It should rest just below the "shelf" on the end of the strut shaft. Place the new Hotchkis spring over the strut. Make certain to line up the bottom of the coil, or tail, with the perch in the lower spring seat and isolator pad.



- 8) Replace the rubber spring isolator / dust cover on the spring. Place the upper spring seat on top of the coil and align the coil assembly by using your markings. The upper seat does have a key way so make sure that lines up before you begin to tighten.



- 9) Once you placed in the key way go ahead and clock it to your markings, place the spacer and strut top on the strut. Now tighten the upper strut nut.



- 10) Now your ready to reinstall the strut. Make sure you install the strut in between the brake line and the ABS line as shown below. Reverse the installations steps and re-check all hardware for tightness and you're finished with the front springs.



MOVE ON TO THE REAR SPRING INSTALLATION!

**TVS**  
TOTAL VEHICLE SYSTEM

Please call us at (877) 4NO-ROLL if you have any questions regarding the service or installation of your products. You can also visit us on the web at [www.hotchkis.net](http://www.hotchkis.net)

Tools required for this installation:

- Hydraulic jack, jack stands, torque wrench
- The following sockets or wrenches: 17mm,

## INSTALLATION OF HOTCHKIS REAR COIL SPRINGS

- 1) Begin by removing the trunk interior to gain access to the upper shock mounts in the rear.
- 2) Loosen and remove the nut holding the bottom of the shock to the spindle and pull the shock off the stud.



- 2) Securely block the front wheels of the vehicle. Use a jack to raise the rear end until the wheels are off the ground and use jack stands to support the vehicle. Now your ready to pull the stock spring out.



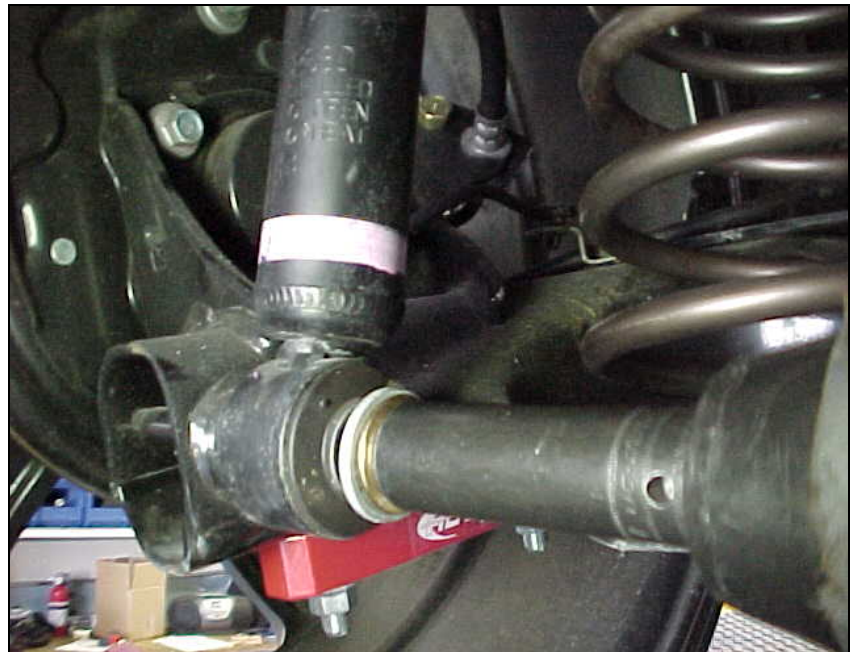
- 3) Now your ready to remove the shock for the bump stop exchange. Cut the bump stop right at the edge of the plastic boot. Remove the gold metal cap. Insert the new HT bump stop into the plastic boot. Place the metal cap onto the new bump stop. Place the assembly onto the shock.



- 4) Place the shock back into the shock tower and reinstall.



- 5) Now you are ready to install the rear coils. ***\*Note the rear of the car is still raised of the ground\**** As you lower the vehicle line up the shock eye with the stud and tighten the nut using a 17mm socket.



Congratulations, you're now finished installing your set of Hotchkis coil springs!

Don't forget your strut tower brace!





## 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 inquiries 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.**