



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 Tuning products.

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.



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- 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.



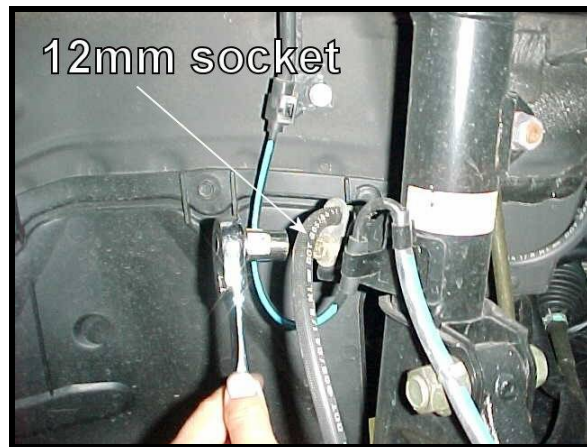
- 5) Spanning across the cowl panel is a rubber weather stripping which also clips into the cowl framing on each end and in the center of the panel. Carefully pop out each clip by using a needle nose pliers from underneath the cowl framing.



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



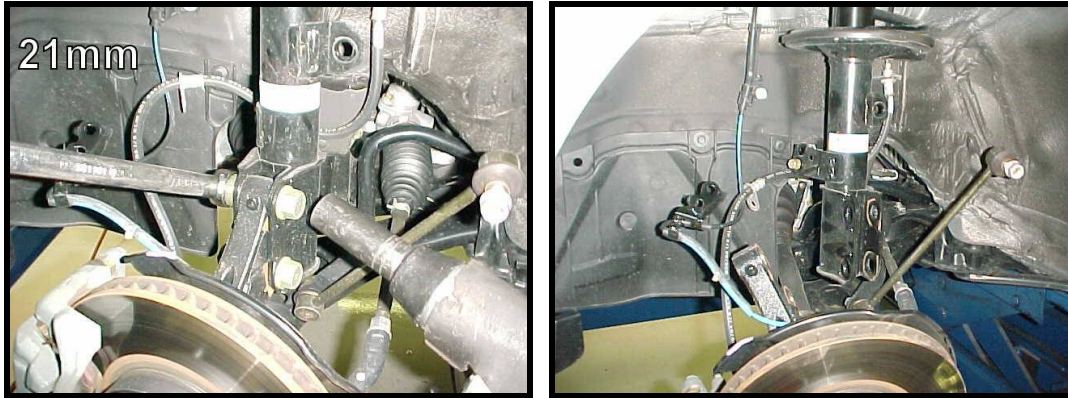
- 7) Remove the brake line/ABS bracket bolt using a 12mm socket. The ABS bracket should detach from the strut housing at this point.



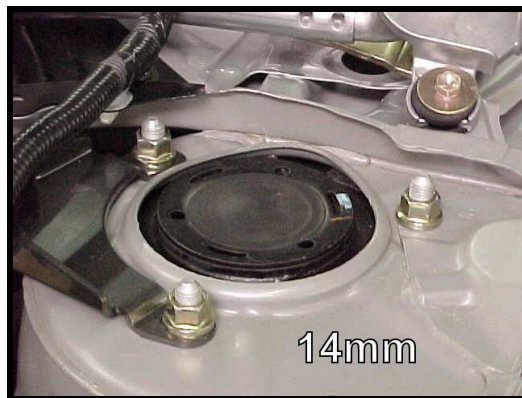
- 8) Next, Remove the nut attaching the anti roll bar end link to the strut body using a 17mm wrench or socket. If the ball joint stud starts spinning while you're loosening the nut, use a 6mm Allen wrench to hold the stud.



- 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.

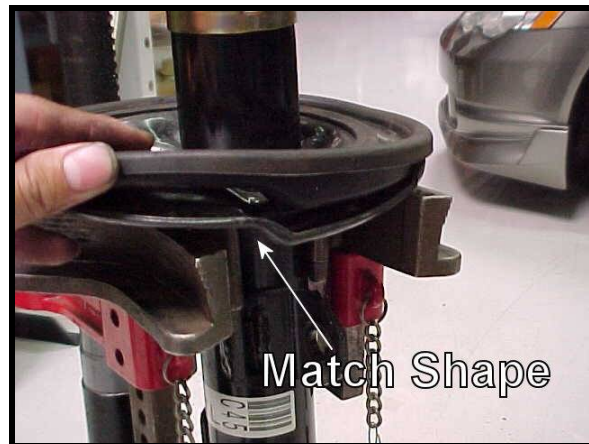
- 12) Remove the upper mount plate, top spring perch, rubber boot and the sponge bumpstop from the strut assembly.



- 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.



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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 driving the vehicle.

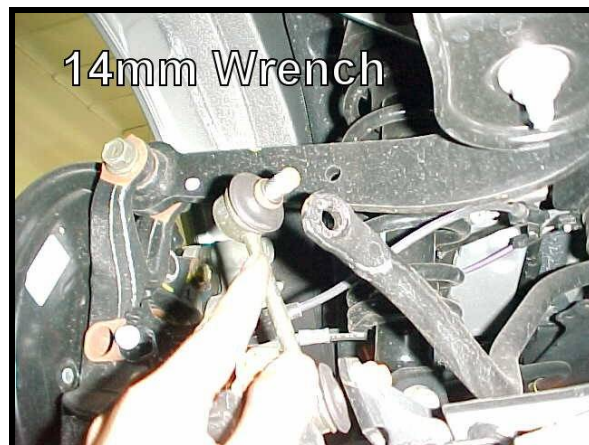
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are is fully tightened before



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.

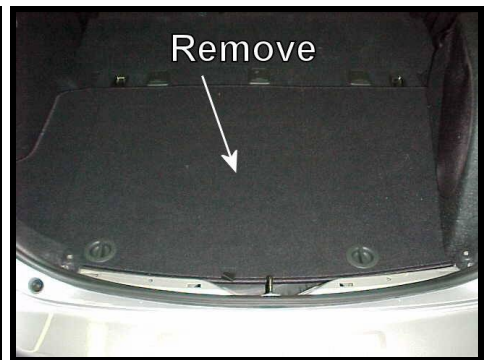


- 4) Remove the nut and bolt that secures the bottom of the shock to the lower control arm using a 19mm wrench and socket. At this point, everything under the fender should be detached from the shock.

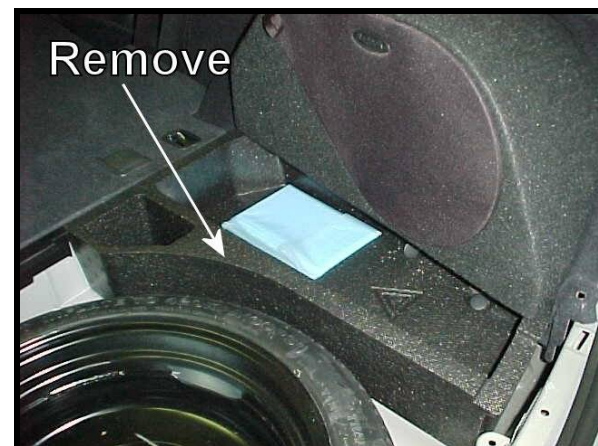
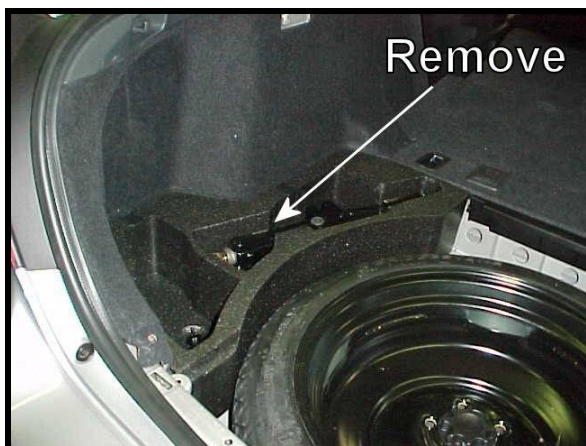
Note: This bolt may be very tight. If this is the case, try using a long socket wrench with a long pipe over the handle to break the bolt loose.



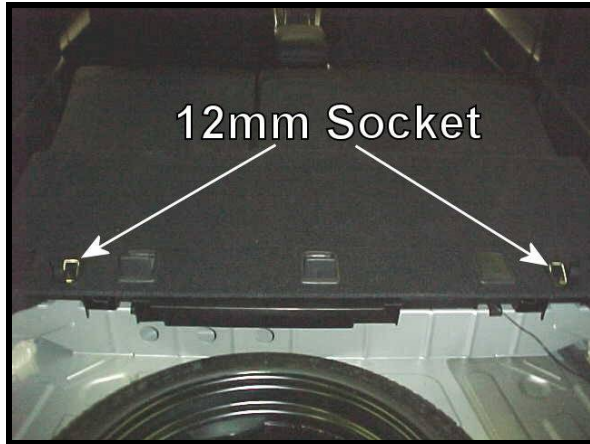
- 5) The only thing holding the shock assembly to the car are 3 shock tower bolts which can be located inside the trunk. However, you will need to remove some interior panels in order to access them.
- 6) Inside the trunk, remove the trunk canopy and trunk mats to expose the spare tire. The edge panel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



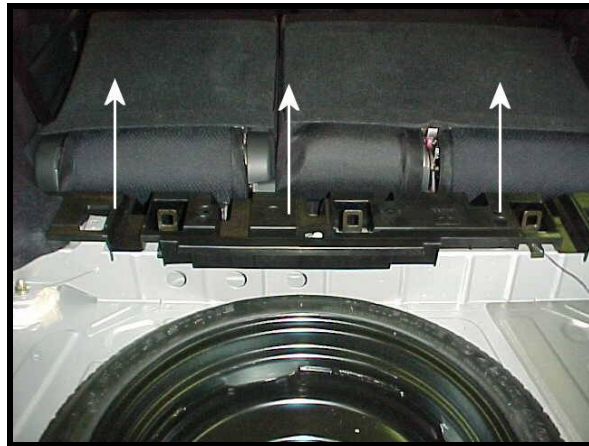
- 7) Next, remove the 2 styrofoam containers on each side of the spare tire.



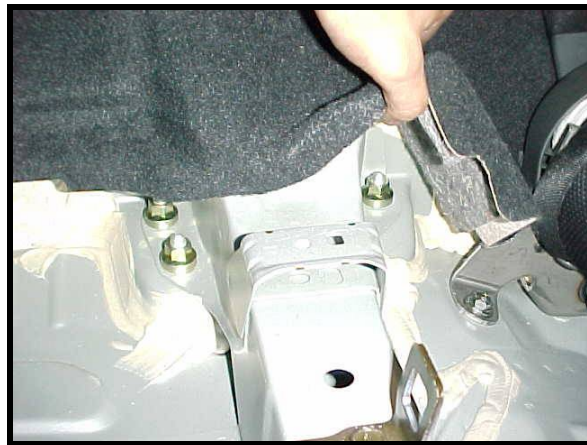
- 8) Remove the carpeted panel located at the bottom of the seat back by removing the 2 bolts with a 10mm socket. These bolts are on each side of the panel. Use a flat screw driver to expose the bolts.



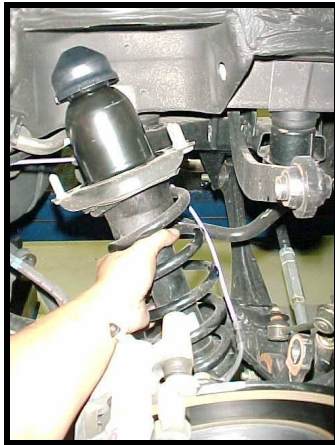
- 9) The plastic piece located underneath the panel you just removed will detach from the car by simply pulling it up.



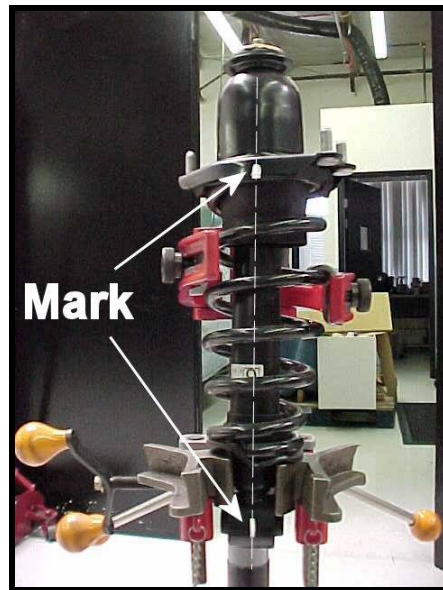
- 10) On each side of the car, you should be able to slightly fold back the carpet to see the 3 shock tower bolts. Use a 14mm wrench to remove the bolts.



- 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.



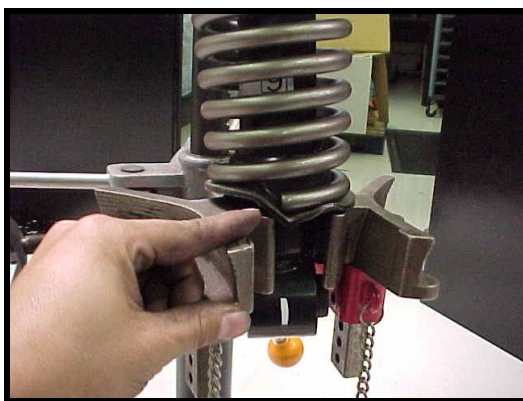
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- 14) Remove the upper spring perch, rubber boot seat, and the foam bumpstop.



- 15) Carefully decompress the stock spring and remove it from the shock assembly. Place your new Hotchkis coil spring in it's 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.



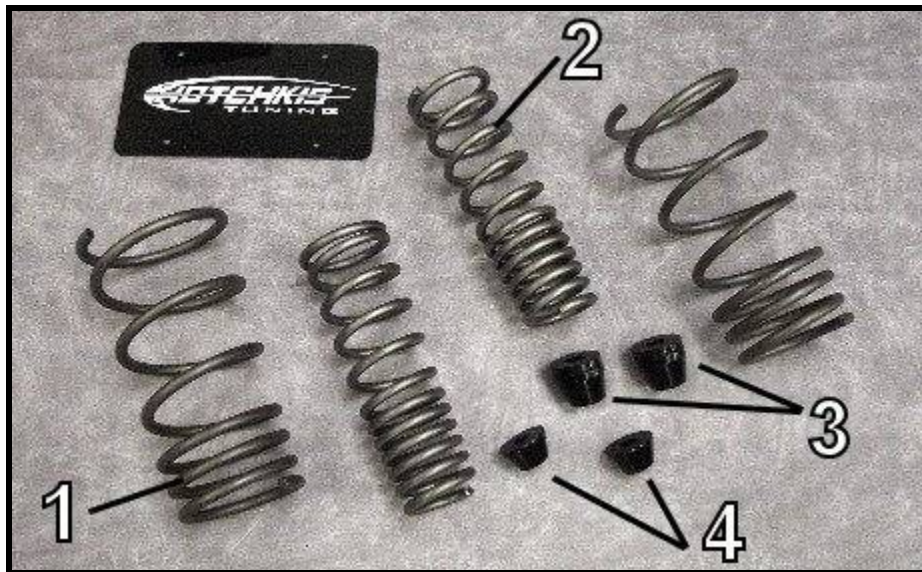
- 19) Reinstall the shock assemblies in reverse order using steps 1-10.

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 Tuning 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 |



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HOTCHKIS PERFORMANCE WARRANTY POLICY

Effective January 1, 2000. Supersedes all previous policy statements. Policies are subject to change without notice. Hotchkis Performance is not responsible for printing errors.

If you purchased your Hotchkis Performance product from an authorized dealer, you are covered by the terms of this policy. All claims however, must be submitted **THROUGH YOUR DEALER** not to Hotchkis Performance directly.

Return Policy:

We want you to be completely satisfied with your Hotchkis Performance product. In case you're not, you can exchange or return it within 30 days of the purchase date. To obtain a full refund, excluding freight, 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 part has to be in its original packaging materials and be in a sellable condition. For parts presenting signs of use, only warranty claims will be accepted. Exchanges or refunds can be made after 30 days with a 20% restocking charge.

Warranty Claim:

Hotchkis Performance warrants its products against materials and workmanship failure for the term of 36 months (3 year) from the date of purchase and only up to the amount paid. If the product is determined to be defective, Hotchkis Performance will repair, replace or refund its value at Hotchkis Performance's discretion. Any repaired or replaced product will be returned to the sender freight prepaid.

How to File a Warranty Claim:

The answer to ALL the following questions should be **YES** before contacting our Customer Service Department.

- Is the part appropriate to your application?
- Did you carefully and thoroughly read the instructions provided along with the part?
- Do you have the proof of purchase?
- Are you the original purchaser?
- Is the part unmodified and clean?
- Is the return date within 36 months from the purchase date?
- 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 part prepaid to our facility. All shipments MUST be prepaid, include the original invoice and show the RGA on the outside of the package, otherwise it will be refused. Please include a brief explanation letter in order to expedite the warranty analysis process.

What doesn't this Warranty Cover?

The costs not covered by this warranty include but are not limited to:

- Removal, installation, shipment and insurance costs.
- Improper installation or maintenance.
- Misuse or abuse, negligence, off-road and/or racing applications.
- Damage to related components.
- Normal wear and tear.
- Costs incurred due to down time of vehicle.
- Alterations on the original design or unauthorized repairs.

Items offered but not manufactured by Hotchkis Performance are warranted according to the manufacturers terms and are not the responsibility of Hotchkis Performance.

All warranties implied by law are limited in duration of this warranty. You have specific rights that may vary from state to state.

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Name: _____

Address: _____

City: _____ State: _____ Zip _____

Phone #: _____ E-Mail: _____

Year, make and model, car/truck: _____

What parts did you purchase? _____

Where did you purchase them? _____

Were you satisfied with this transaction? Y N

(If not, why?) _____

• **WERE YOU SATISFIED WITH THE FOLLOWING?**

Fabrication and finish: _____

Instructions and ease of installation: _____

Performance improvement: _____

(If not, why?) _____

What other products would you like to see us make?

Have you read about our products on the Internet? Y N

(If so, where?) _____

Where have you seen our products?

(i.e. magazines/shows/catalogs) _____

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