

HOTCHKIS

SPORT SUSPENSION

Sport Coil Springs set #1979

2003+ Cadillac CTS



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

Tools & Supplies Required for this Installation

- Hydraulic jack, jack stands, (4 post lift or alignment rack preferable)
- 2 pry bars, Loctite, torque wrench
- The following sockets or wrenches: 10mm, 13mm, 15mm, 18mm, 21mm

INSTALLATION OF HOTCHKIS FRONT COIL SPRINGS

- 1) Secure the rear with blocks and raise the front of the vehicle. Place jack stands at the factory jack points. Remove front wheels.
- 2) Loosen and remove the 2 lower shock mounts bolts using a 13mm socket.



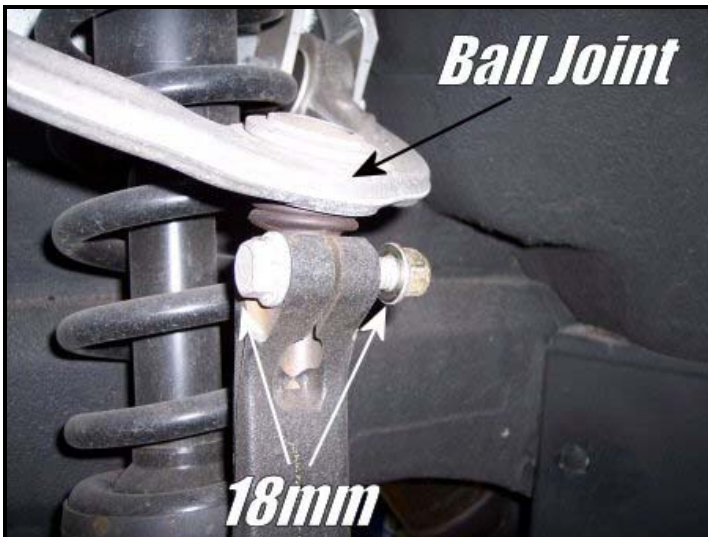
- 3) Undo the swaybar endlink nut using a 15mm socket.



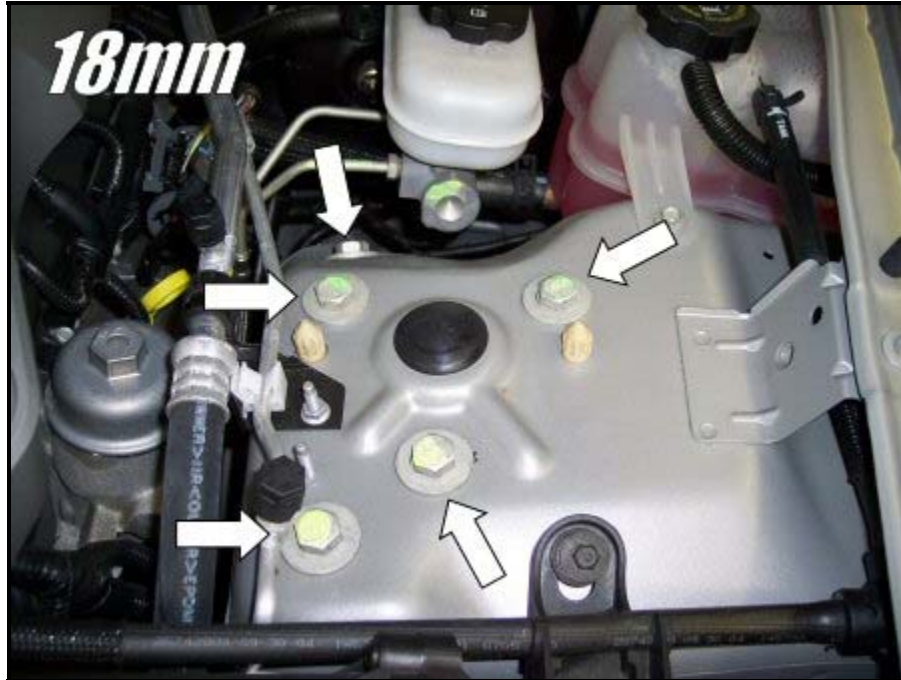
- 4) Unclip the ABS wiring.



- 5) Unfasten the upper ball joint bolt & nut using an 18mm socket and wrench. Give the joint a few taps and the ball joint stud will come loose. Be careful not to let the steering knuckle assembly pull on the brake lines. Use safety wire or other means to hold the knuckle in place.



- 6) Open up the hood and locate the 5 upper shock mount bolts. Loosen and remove the 5 bolts using 18mm socket.



- 7) The spring/shock assembly should now be loose from the vehicle. Remove the assembly and place it in a spring compressor.



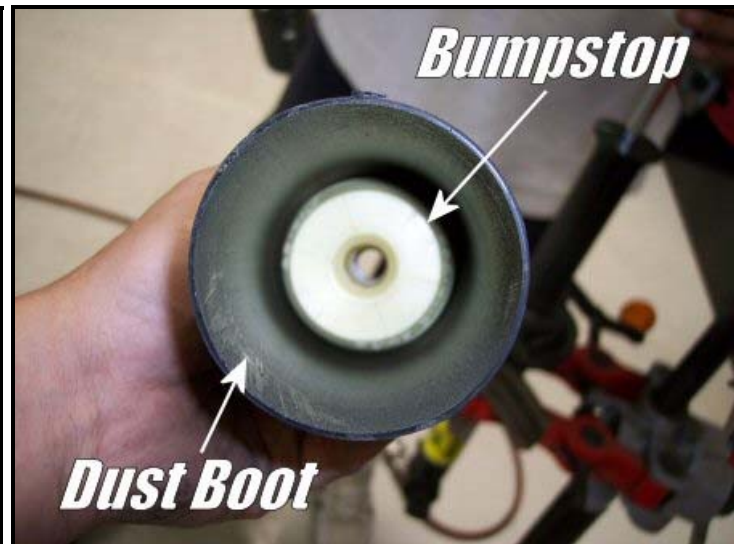
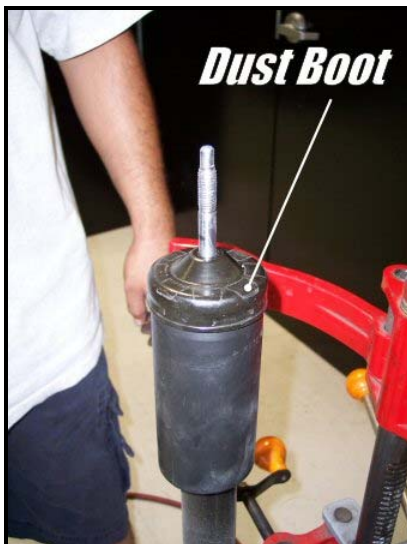
- 8) Safely compress the spring and remove the shock shaft nut using a 15mm socket.



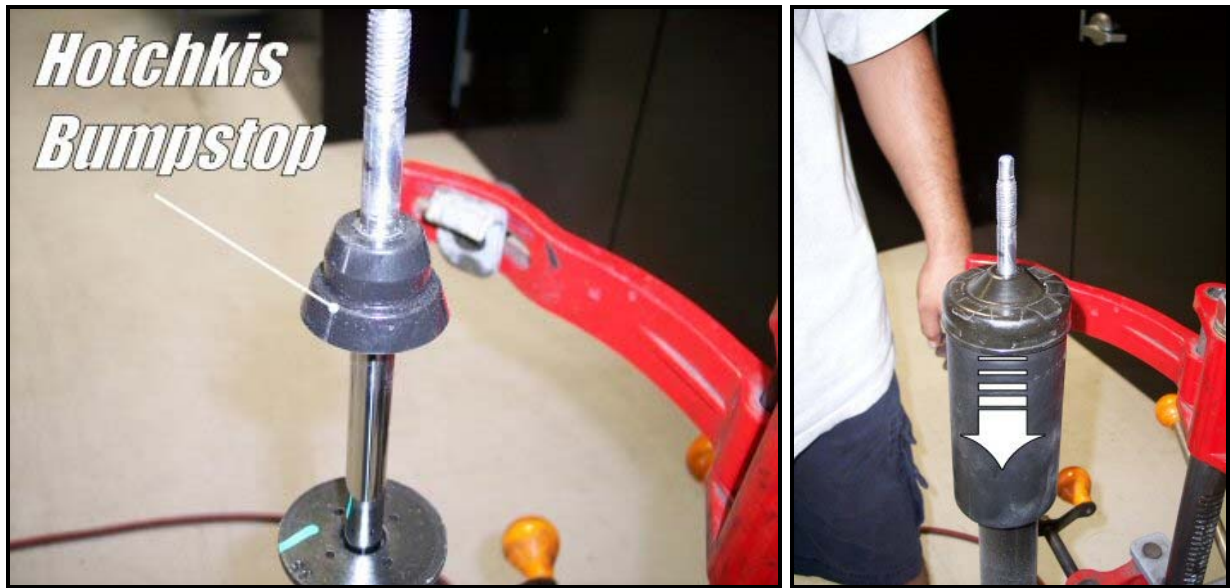
- 9) Remove the top perch assembly and carefully release the spring pressure and remove the spring.



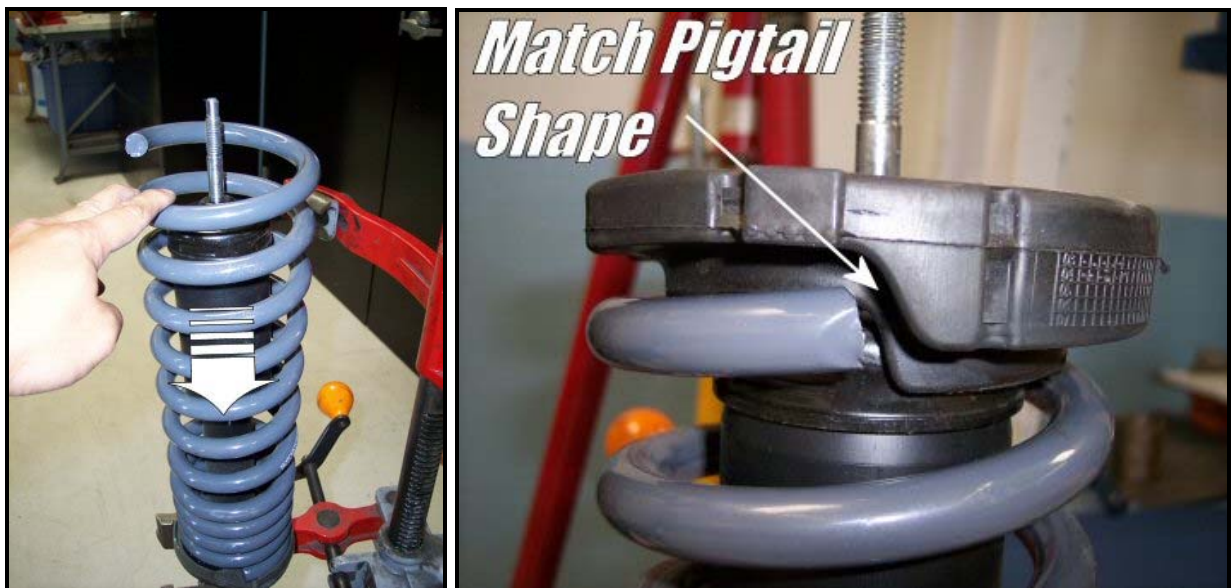
- 10) All that's left should be the dust boot, which contains the stock bumpstop. Remove the stock bumpstop from the boot.



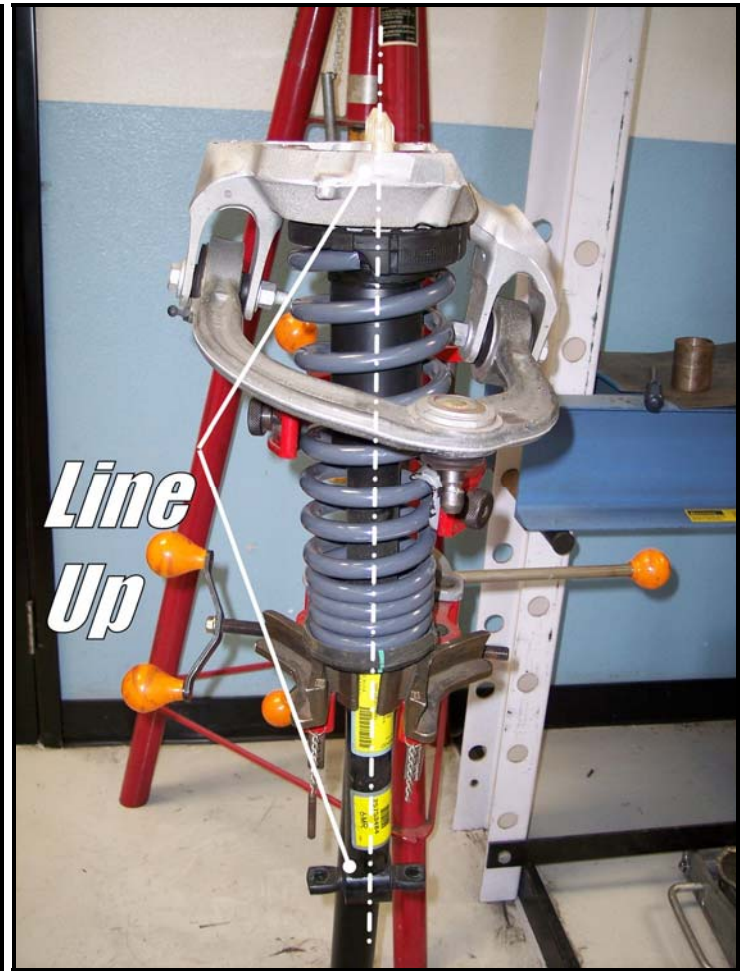
- 11) Install the provided Hotchkis polyurethane bumpstop on the shock shaft and place the boot back on top of the bumpstop.



- 12) Place the New Hotchkis front coil (p/n 19830288) onto the shock. Set the rubber isolator on top of the spring properly positioned.



- 13) Carefully compress the Hotchkis spring and reinstall the top perch assembly back onto the shock. Make sure the top perch assembly is lined up with the shock body as shown in the picture.



- 14) Apply some loctite onto the shaft nut and fully tighten assembly together.
- 15) Perform steps 2-5 in reverse order to reinstall the spring/shock assembly back into the vehicle
- 16) Install the front wheels and lower vehicle.

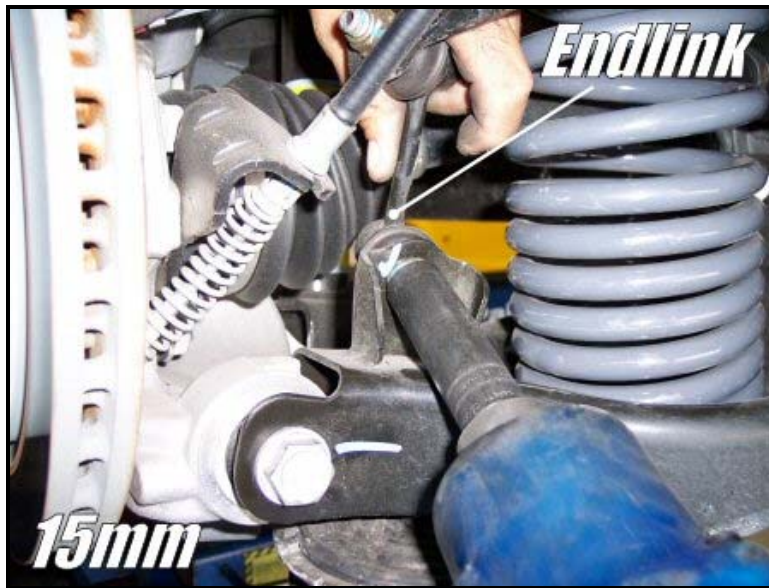
You are now finished with the front coil spring installation! Make sure that all hardware is fully tightened before driving the vehicle. Let's move on to the rear sway bar installation.

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INSTALLATION OF HOTCHKIS REAR COIL SPRINGS

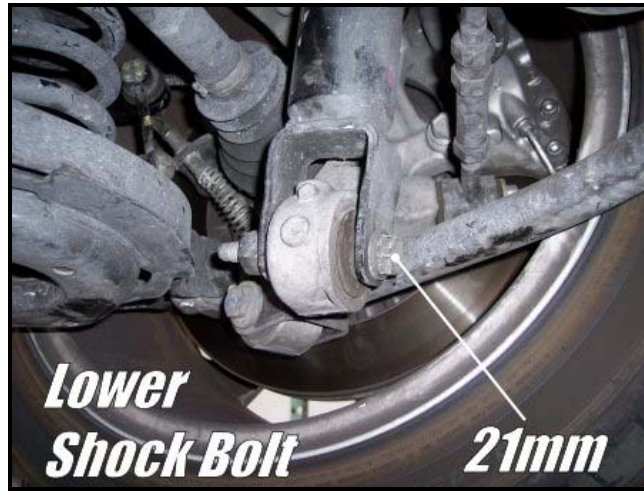
- 1) Secure the front wheels with blocks and jack the rear up until the wheels are off the ground. Support the rear of the vehicle with jack stands on the factory jack points. Remove the rear wheels.
- 2) Undo the swaybar endlink nut using a 15mm socket.



- 3) Unclip the ABS wiring.



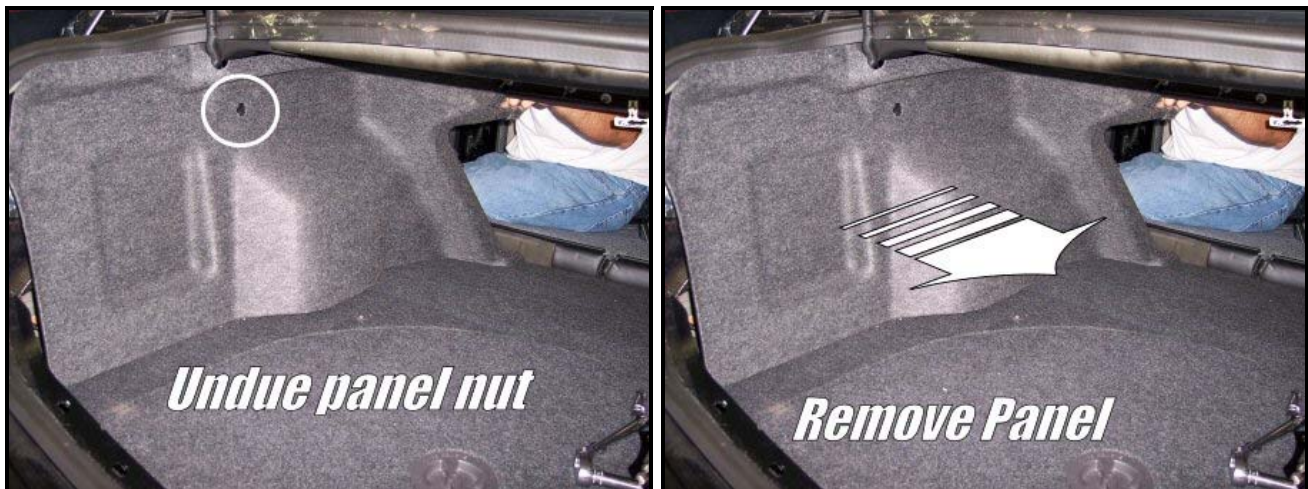
- 4) Before we take out the springs we will remove the shocks for bumpstop replacement. Remove the lower shock bolt using a 21mm socket.



- 5) The upper shock mount is attached via 2 nuts located inside the car. In order to access these nuts some paneling and the rear seats must be removed. Don't worry, this isn't as hard as it sounds.
- 6) Open the trunk and remove the rear panel which is fastened by 4 plastic panel nuts.



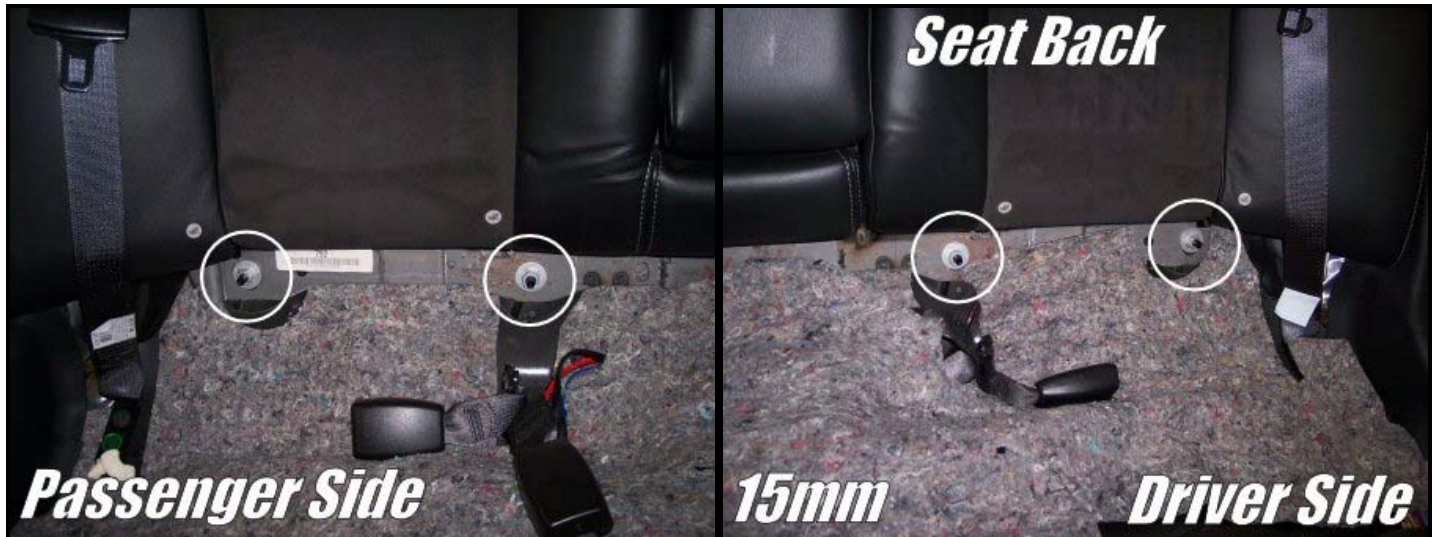
- 7) Next, remove the side panels by unfastening the 1 plastic panel nut for each side panel.



- 8) Go into the back seat and remove the butt cushion. Simply lift up on the front and the cushion should unclip.



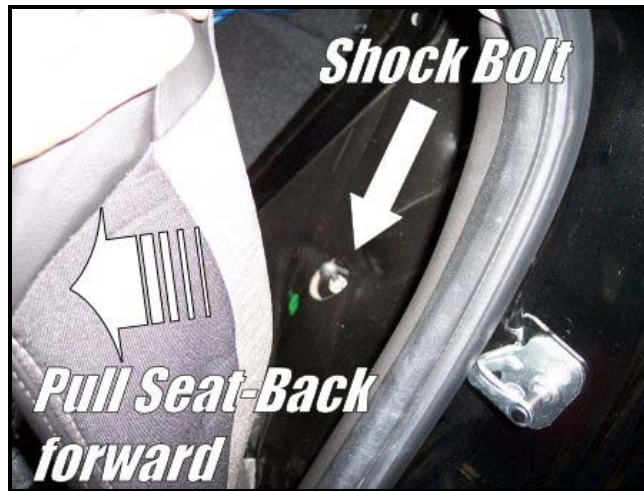
- 9) If you look just below the seat back you can see 4 bolts that fasten the bottom of the seat-back to the car. Remove these bolts using a 15mm socket.



- 10) Now go back into the trunk area and locate the 4 bolts that secure the top of the seat-back. Remove these bolts using a 10mm socket.



- 11) The seat back should now be loose from the vehicle, you may choose to take the seat-back out of the car or you can lean it forward so you can access the shock nut.



- 12) Remove the 2 shock mount nuts using a 13mm socket. One bolt is hiding under the seat-back. The other is accessible from the trunk.



- 13) Remove the shock from the vehicle and unfasten the shaft nut.



Remove the large washer and upper mount of the shock.



- 14) Remove the dust boot and pop out the bumpstop, which resides inside the dust boot. Replace the stock bumpstop with the New Hotchkis polyurethane bumpstop. Make sure the cone shaped bumpstop points up.



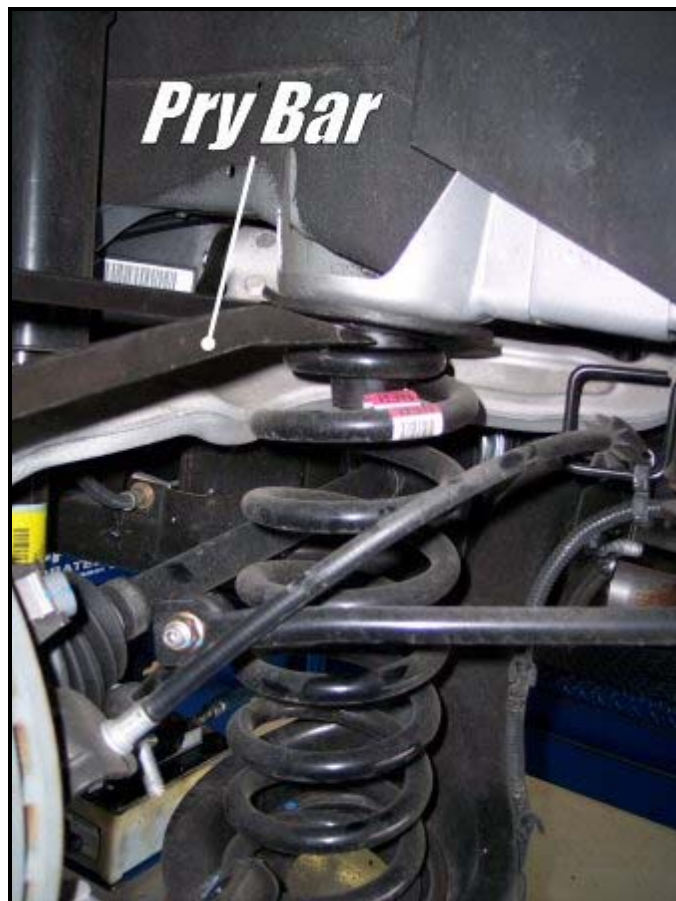
- 15) Reassemble the shock and set-aside for now. Make sure the shaft nut is fully tightened.
- 16) Now back to the springs. Place a floor jack underneath the lower control arm to relieve some pressure on the outer control arm bolt. Loosen and remove the bolt using a 21mm socket.



- 17) Remove the floor jack and let the lower control arm rotate downward.



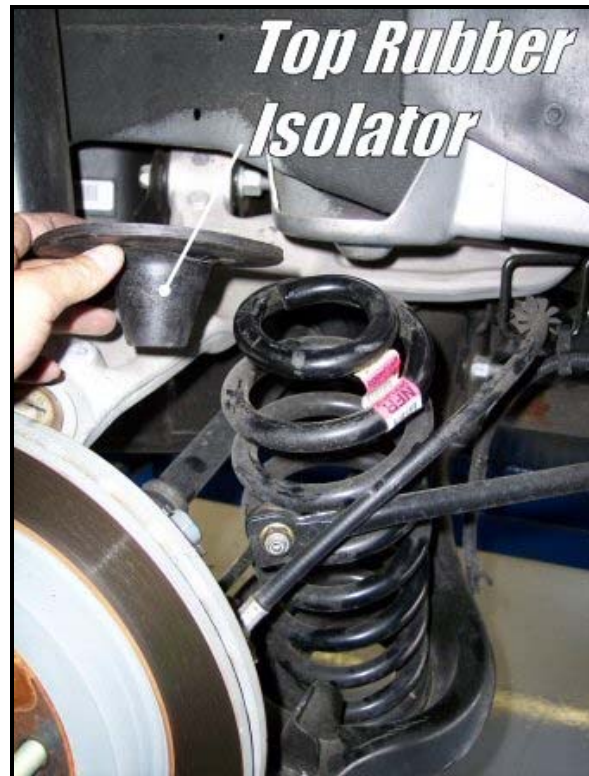
- 18) Grab 2 pry bars and carefully pry the top of the spring out. This may take some patience.



- 19) If you find it too difficult to pry the springs out, you can loosen the 4 subframe bolts to give you more clearance. Make sure to only loosen the bolts, not remove. You can loosen the bolt approximately 1".



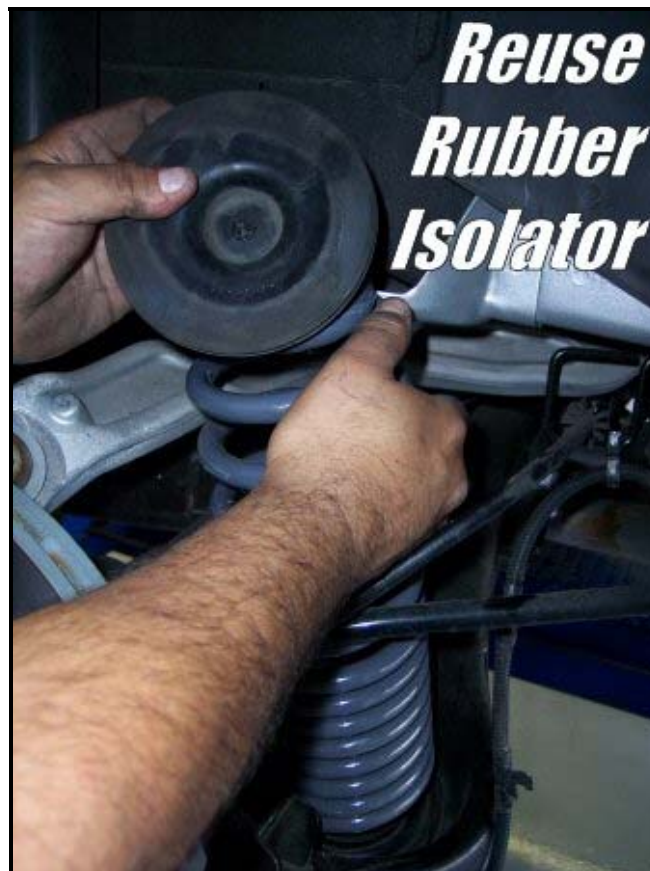
- 20) After removing the spring, the top rubber isolator might pop off in the process. This is okay since you need to take them off anyways to put onto your New Hotchkis springs.



- 21) Place your Hotchkis spring (p/n 19930288) into the lower pocket of the control arm. Make sure the pigtail end is position in the correct spot.



- 22) Next place the top rubber isolator on top of the spring. It might be a good idea to spray some WD40 on the top of the isolator for easier installation.



- 23) Using a pry bar and some force, pop the spring into place. It should go in much easier than it did coming out.



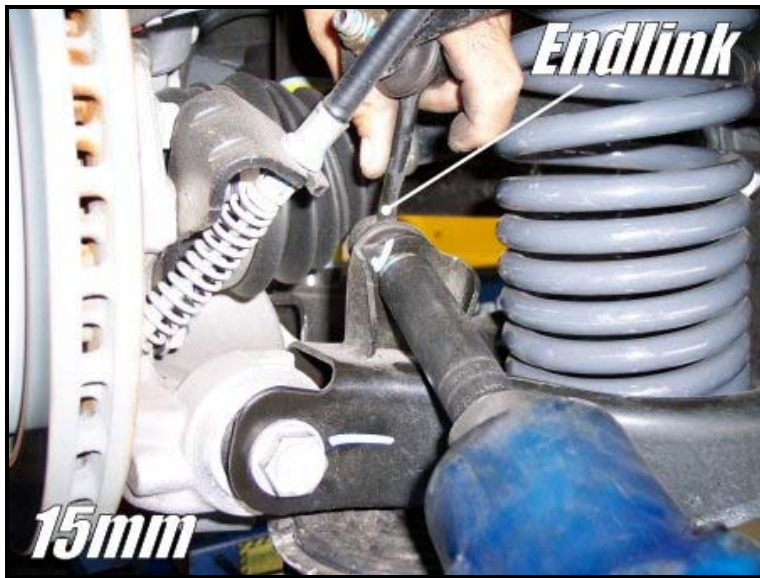
- 24) Fully tighten all 4 subframe bolts (if you loosened them).



- 25) Using a floor jack, raise the lower control arm until the bolt holes line up. Insert the control arm bolt and fully tighten.



- 26) Reinstall the sway bar endlinks and ABS wiring.



- 27) Perform steps 4-12 in reverse order to reinstall the shocks.
- 28) Install rear wheels and lower the vehicle.

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 sport coil spring set!

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Sport Coil Springs set #1979
2003+ Cadillac CTS

	Hotchkis P/N	Item Description	Quantity
1	19830288	Front Coil	2
2	19930288	Rear Coil	2
3	27910210	Front Bumpstop	2
4	27910288	Rear 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 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 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?
- 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.