

# HOTCHKIS SPORT SUSPENSION

## *Sport Coil Springs*

*19101 - Dodge Magnum, Chrysler 300C*

*19107 - Dodge Challenger SRT-8*

*19108 - Dodge Challenger R/T*



**Thank you for your purchase from our new line of Magnum/300C 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](http://www.hotchkis.net)**

***Warning: This installation should be performed by a trained professional. The installation requires lowering of the rear cradle from the vehicle for spring removal and reinstallation.***

### Tools Required for this Installation

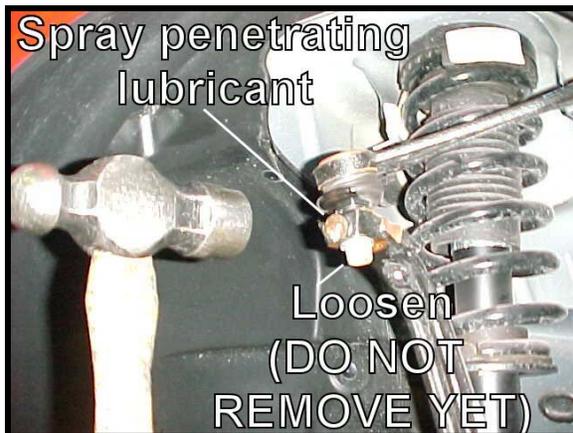
- Hydraulic jack, jack stands, torque wrench (4 post lift or alignment rack preferable)
- Coil spring compressor (most major auto parts chains can rent these out)
- The following sockets or wrenches: 10mm, 13mm, 15mm, 16mm, 18mm, 21mm

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

- 1) Secure the rear wheels with blocks and jack the front up until the front wheels are off the ground. Support the front of the vehicle with jack stands on the frame.
- 2) Remove the front wheels using a 21mm socket.



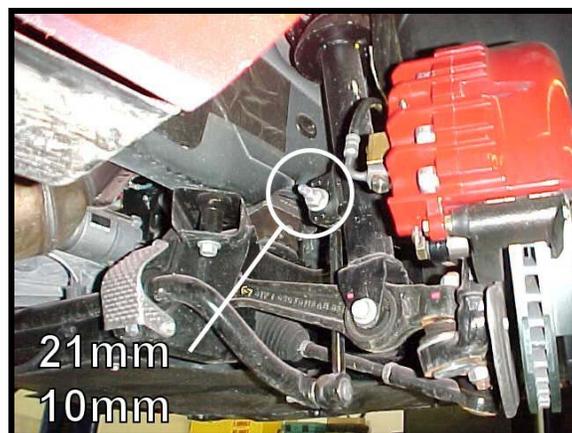
- 3) Loosen the upper control arm ball joint bolt (do not remove yet). Apply some WD-40 or similar penetrating lubricant to soak the tapered stud. Use a hammer to smack the control arm flat spot in order to break loose the ball joint stud. Once loose, you may remove the ball joint nut. Do not let the steering knuckle hang by the brake line. Use a wire or string to hold the knuckle up. Retain hardware for reinstallation.



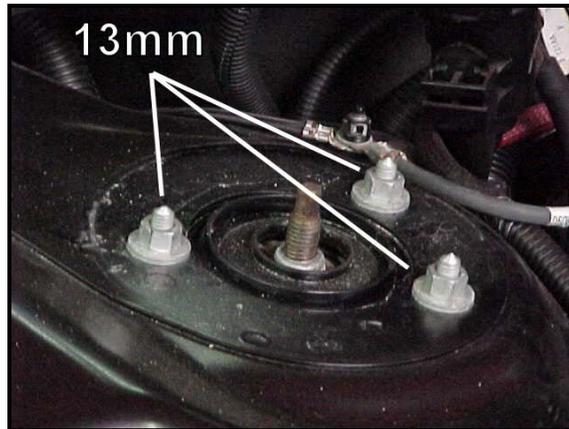
- 4) Loosen and remove the lower shock bolt using a 18mm socket or wrench. Retain hardware for reinstallation.



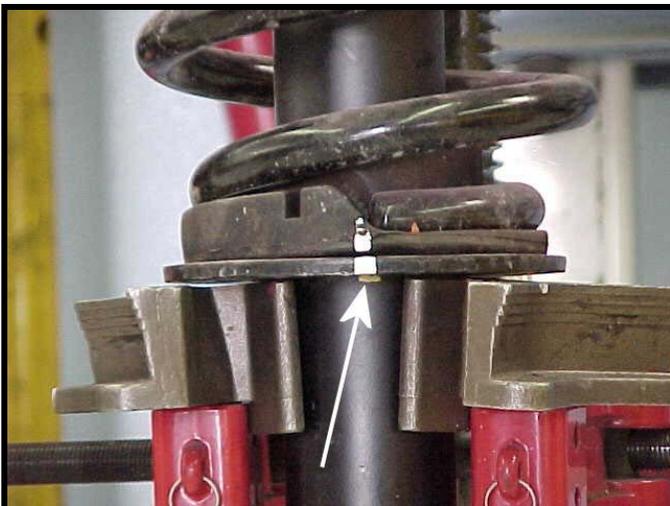
- 5) Loosen and remove the bolt holding the sway bar end link to the shock using a 21mm wrench and a 10mm wrench for the stud end. Retain hardware for reinstallation.



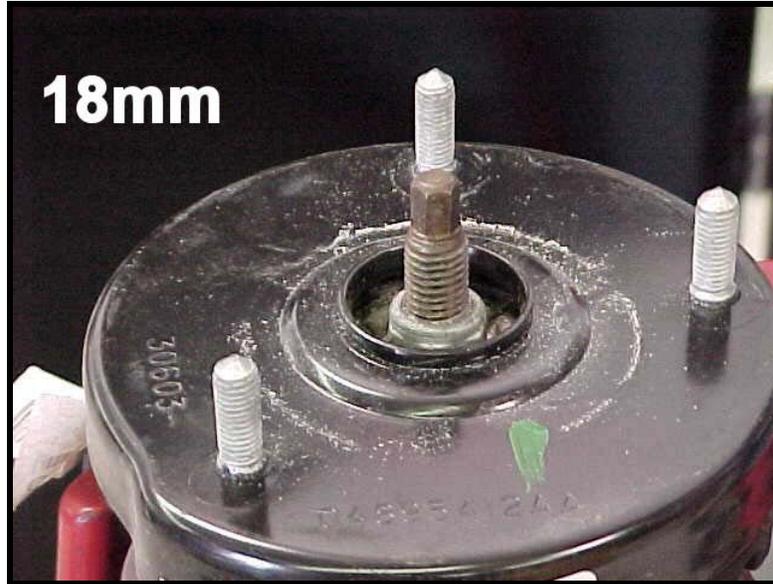
- 6) Open the hood of the vehicle and pop off the plastic shock caps. Once exposed, remove the 3 remaining bolts that hold the shock to the vehicle using a 13mm socket. Retain hardware for reinstallation.



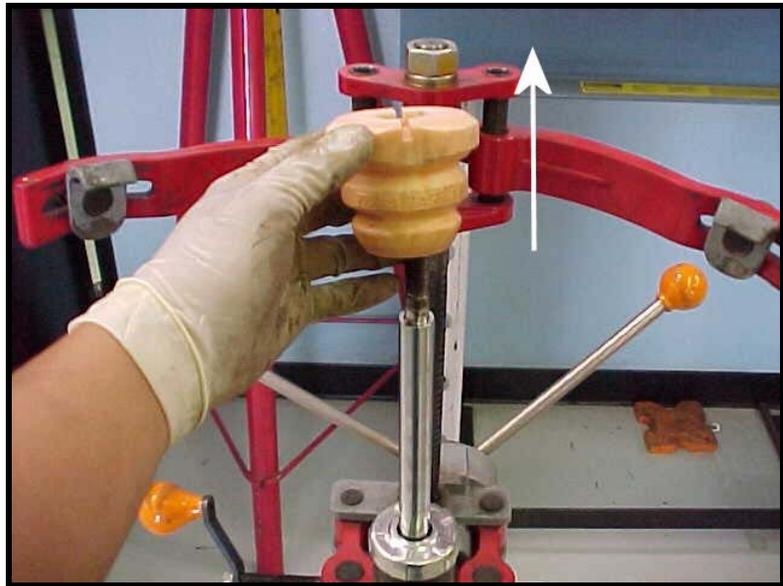
- 7) Once the shock is out of the car, mark the shock top hat and lower perch with whiteout or other marking tool. This will ensure proper orientation for reinstallation.



- 8) Secure the spring/shock assembly in your spring compressor and remove the shaft nut using a 18mm socket. Retain hardware for reinstallation.



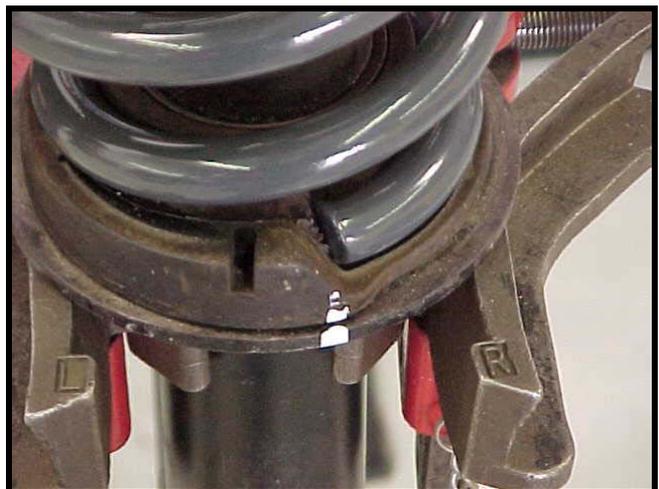
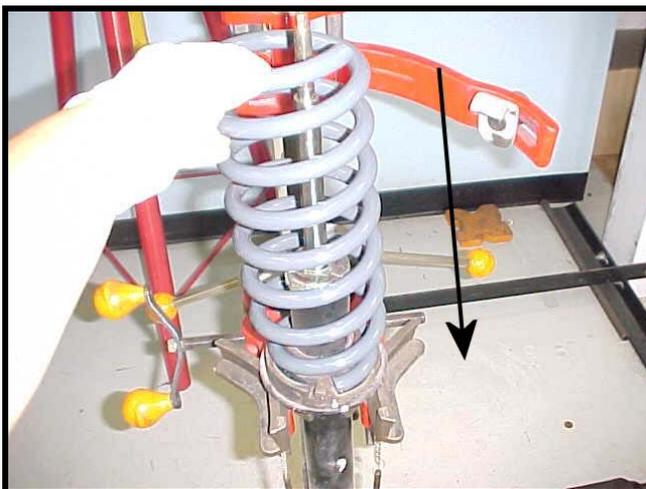
- 9) Remove the top hat, stock bumpstop, and stock spring at this time. Sometimes the bumpstop is pressed into the top hat, in which case, remove the stock bumpstop from the top hat boot.



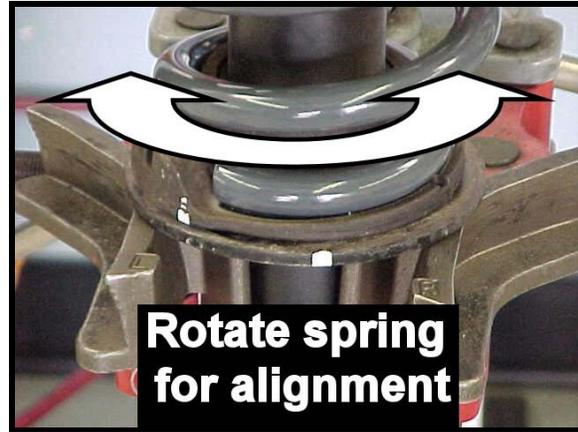
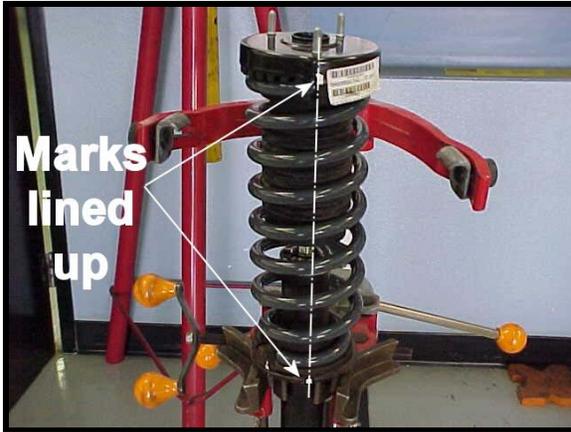
10) Place your new Hotchkis polyurethane bumpstop into the top hat boot assembly as shown in the picture.



11) Place your new Hotchkis coil spring onto the shock. Make sure the smaller pigtail end is on the bottom.



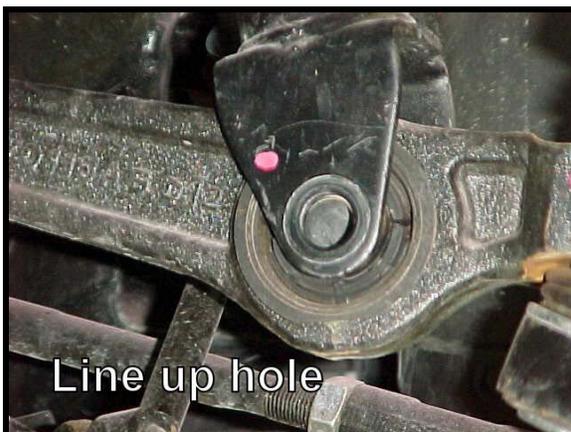
- 12) Before compressing the spring, test fit the top hat onto the shock shaft and see if your marks line up. If not, rotate the coil spring until they align.



- 13) Once aligned, compress the coil spring and install the shaft nut back on. Fully tighten hardware.



- 14) Reinstall the spring shock assembly in the same manner as removal. When installing the lower shock bolt make sure the hole lines up with the shock clevis. Make sure the threads start correctly by threading the bolt by hand. Once properly threaded fully tighten hardware.



- 15) Perform steps 1-6 in reverse order to complete the installation.

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 spring installation.

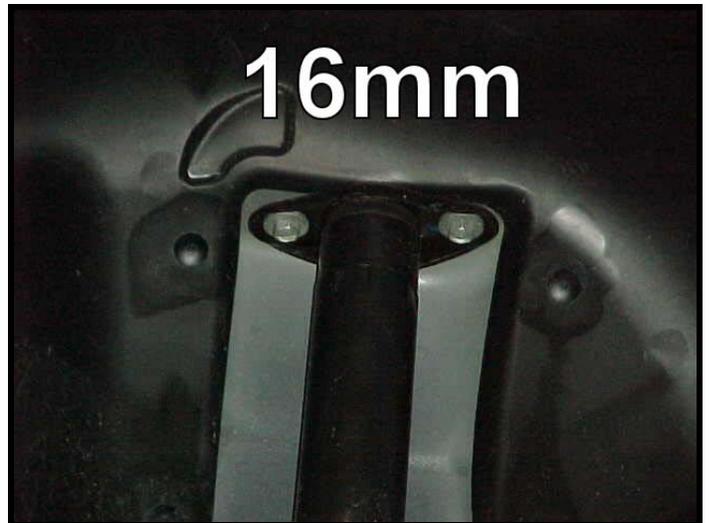
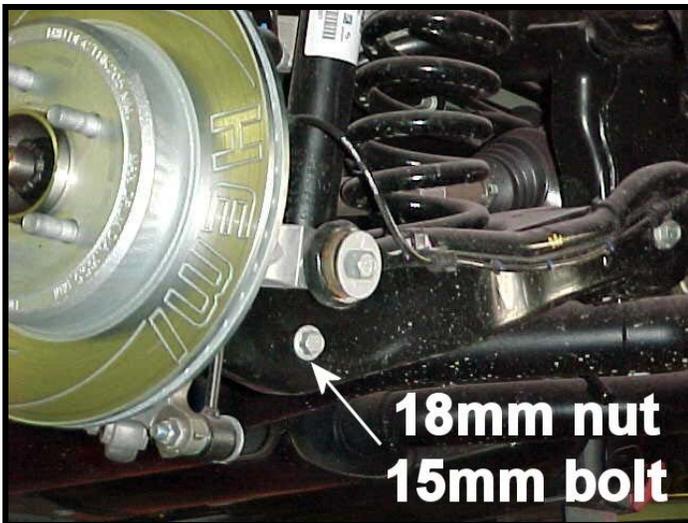
# HOTCHKIS SPORT SUSPENSION

## INSTALLATION OF HOTCHKIS REAR COIL SPRINGS

- 1) Secure the front wheels with blocks and jack the rear up until the front wheels are off the ground. Support the rear of the vehicle with jack stands on the factory jack points.
- 2) Remove the rear wheels using a 21mm socket.



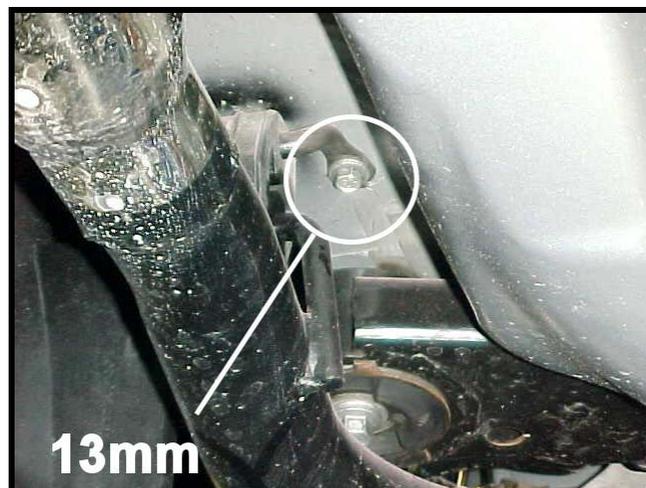
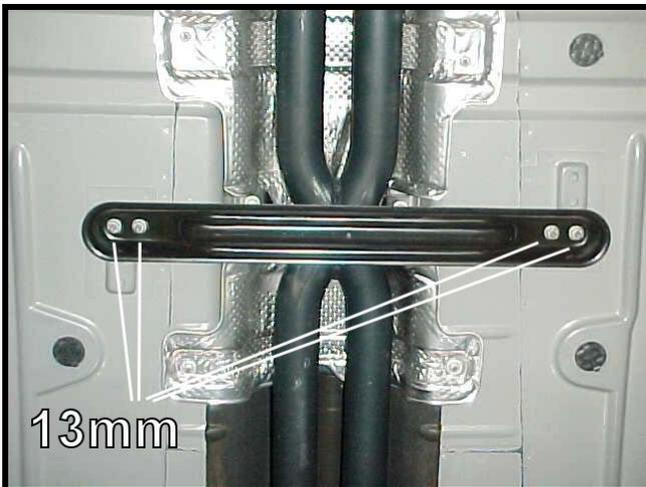
- 3) Begin removing the rear shocks by removing the lower nut and bolt using a 18mm wrench and 15mm socket respectively. Remove the 2 upper shock bolts using a 16mm socket.



- 4) Pull back the plastic splash guard and remove the bolt that holds the brake line to the frame using a 10mm wrench or socket.



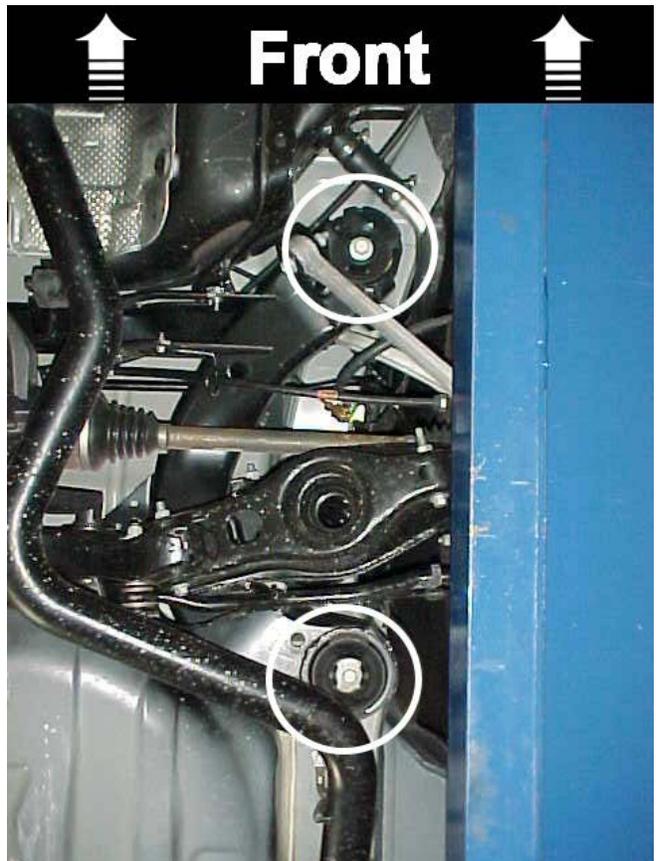
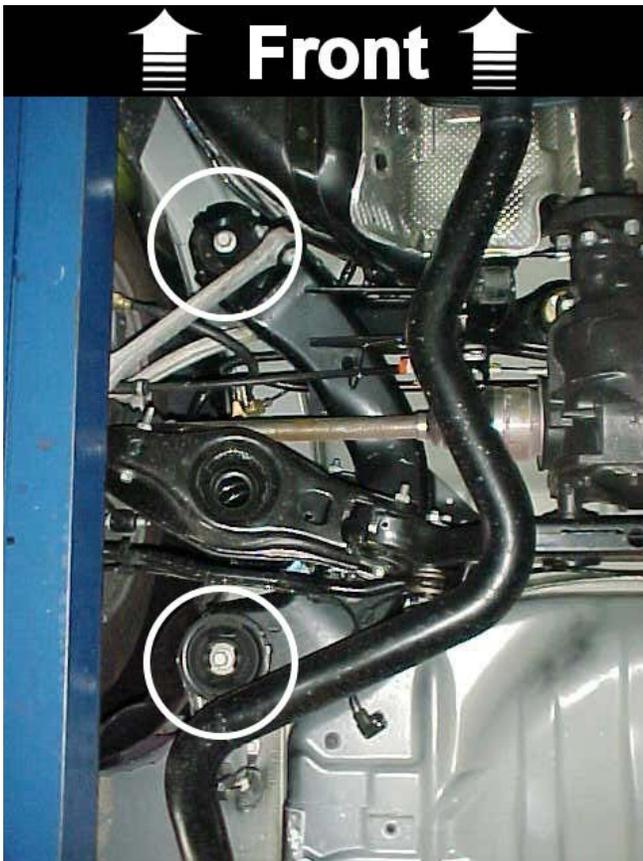
- 5) Next, you will need to drop the exhaust system for clearance. Unbolt the mid-brace removing the 4 bolts using a 13mm socket. Spray the rubber hangers in the picture with WD-40 and slide the rubber hanger off the exhaust support. Unbolt the remaining rear hangers using a 13mm socket. Be careful, for the exhaust will drop down once these bolts are out.



- 6) Support the rear axle pumpkin housing with a jack. Try to use wood or a rubber pad to cushion the contact point of the jack and housing. Remember the jack stands should still be supporting the rear of the vehicle.

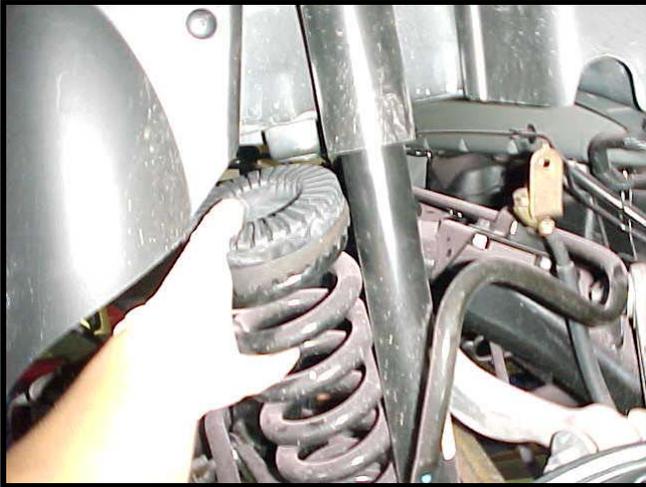


- 7) Once the axle is supported, you can unbolt the 4 bolts that secure the rear cradle to the frame using a 18mm socket.

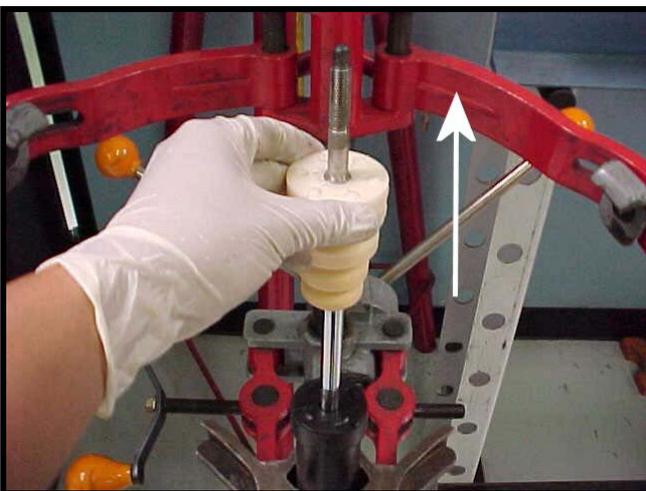
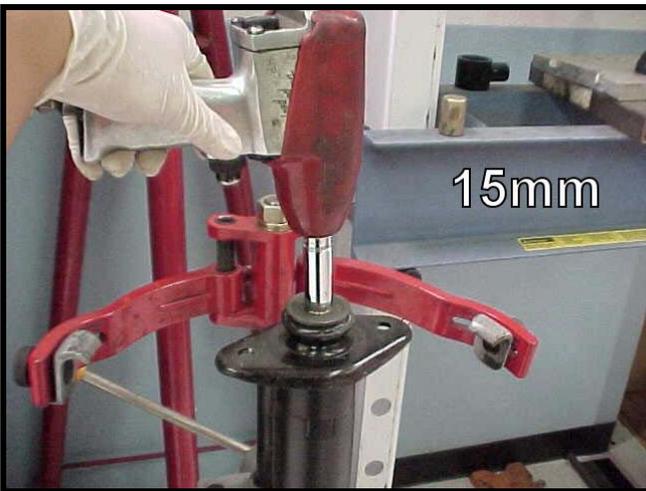


- 8) Lower the jack that supports the axle about 4-5 inches. Make sure not lower it too much to avoid damaging the rear brake hardline.

- 9) You should now be able to easily remove the rear shocks and stock springs. Keep track of the rubber spring isolators located on the top and bottom of the spring. You will be using them for reinstallation.

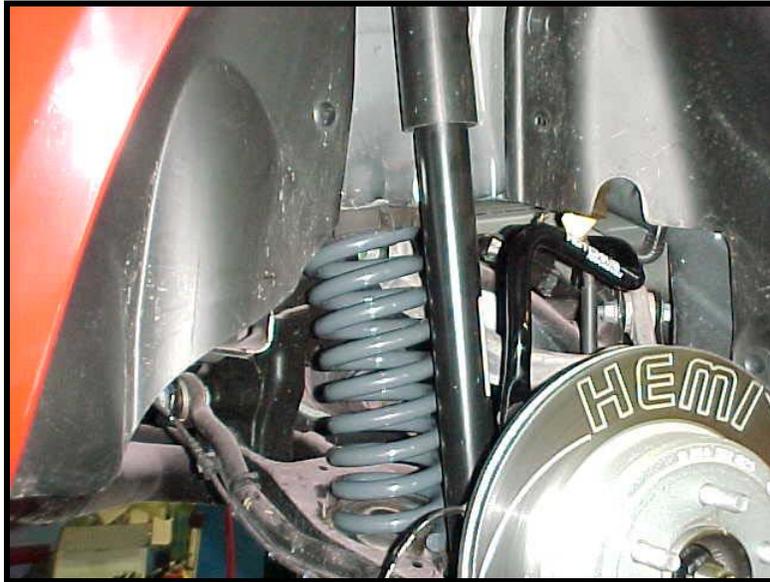


- 10) For each shock, unbolt the shaft nut using a 15mm socket. Remove the washer, top hat, and the boot to reveal the stock bumpstop. Replace the bumpstop with the provided Hotchkis polyurethane bumpstop in the same manner. Reassemble the shock. Fully tighten the shaft nut.



11) Place your new Hotchkis coil springs in the same position as the stock springs were.

Note: The lower rubber isolator is shaped to lay in a specific position. Make sure to install the spring with this in mind.



- 12) Once everything is in place, raise the rear axle into position. Do not raise all the way up! You will still need some wiggle room to line up the cradle bolt holes. Start each bolt by hand to ensure proper threading. Once thread started, fully tighten the cradle bolts using a 18mm socket. Torque bolts to 133 ft-lbs.



- 14) Perform steps 1-6 in reverse order to finish the installation.

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!



# HOTCHKIS SPORT SUSPENSION

*Sport Coil Springs 19101  
Dodge Magnum, Chrysler 300C*

	Hotchkis P/N	Item Description	Quantity
1	19830321	Front Coil Springs	2
2	19930321	Rear Coil Springs	2
3	27810321	Front Polyurethane Bumpstops	2
4	27910321	Rear Polyurethane Bumpstops	2

*Sport Coil Springs 19107  
Dodge Challenger SRT-8*

	Hotchkis P/N	Item Description	Quantity
1	19830375	Front Coil Springs	2
2	19930375	Rear Coil Springs	2
3	27810321	Front Polyurethane Bumpstops	2
4	n/a	n/a	

*Sport Coil Springs 19108  
Dodge Challenger R/T*

	Hotchkis P/N	Item Description	Quantity
1	19830321	Front Coil Springs	2
2	19930322	Rear Coil Springs	2
3	27810321	Front Polyurethane Bumpstops	2
4	n/a	n/a	





## 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 inquiries 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.**