

HOTCHKIS

SPORT SUSPENSION

Sport Coil Springs

19101 - Dodge Magnum, Chrysler 300C

19107 - Dodge Challenger SRT-8

19108 - Dodge Challenger R/T



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

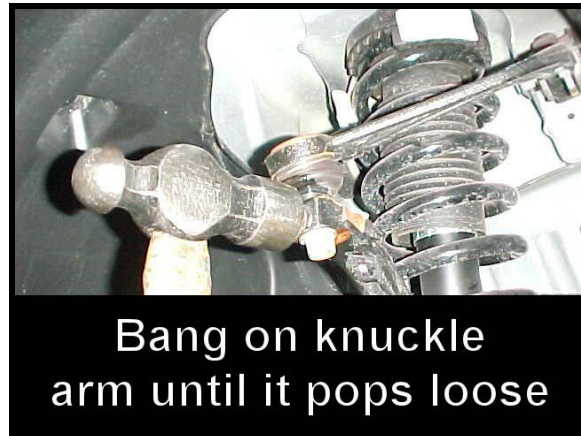
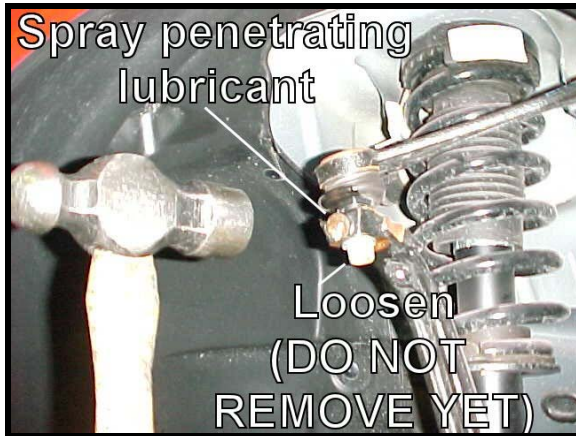
- Hydraulic jack, jack stands, torque wrench (4 post lift or alignment rack preferable)
- Coil spring compressor (most major auto parts chains can rent these out)
- The following sockets or wrenches: 10mm, 13mm, 15mm, 16mm, 18mm, 21mm

INSTALLATION OF HOTCHKIS FRONT COIL SPRINGS

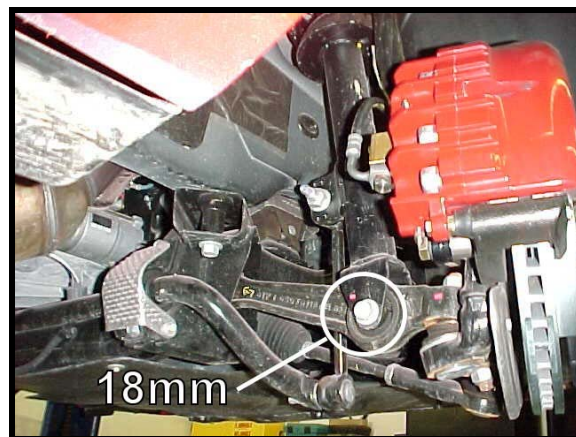
- 1) Secure the rear wheels with blocks and jack the front up until the front wheels are off the ground. Support the front of the vehicle with jack stands on the frame.
- 2) Remove the front wheels using a 21mm socket.



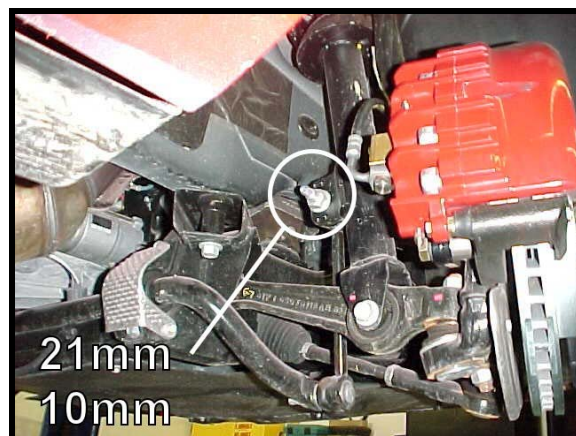
- 3) Loosen the upper control arm ball joint bolt (do not remove yet). Apply some WD-40 or similar penetrating lubricant to soak the tapered stud. Use a hammer to smack the control arm flat spot in order to break loose the ball joint stud. Once loose, you may remove the ball joint nut. Do not let the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



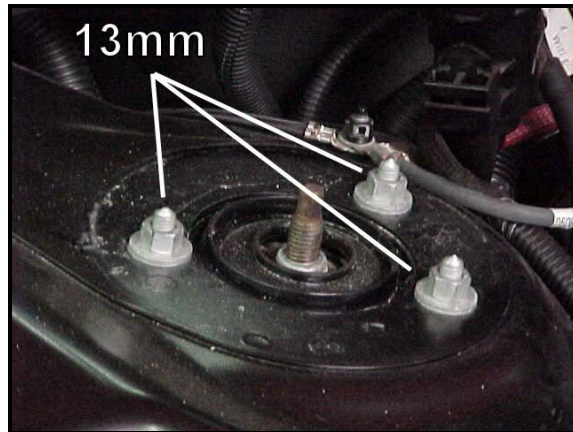
- 4) Loosen and remove the lower shock bolt using a 18mm socket or wrench. Retain hardware for reinstallation.



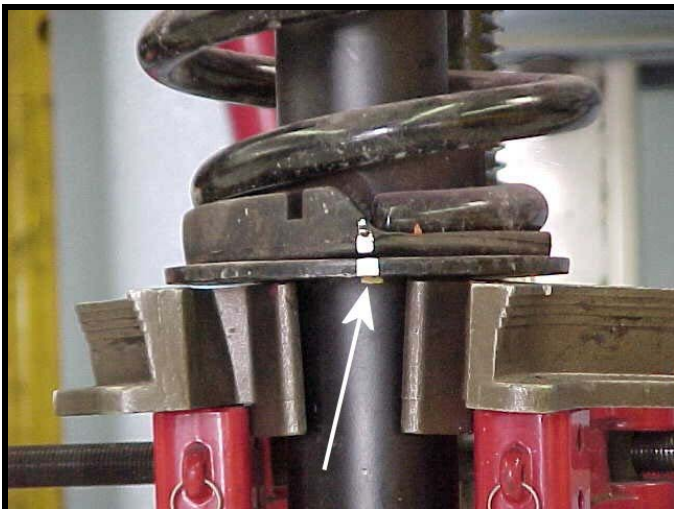
- 5) Loosen and remove the bolt holding the sway bar end link to the shock using a 21mm wrench and a 10mm wrench for the stud end. Retain hardware for reinstallation.



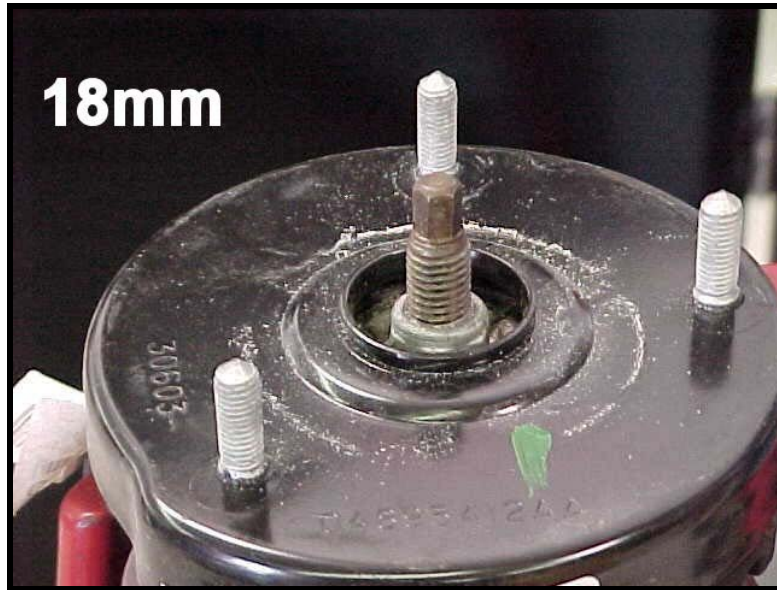
- 6) Open the hood of the vehicle and pop off the plastic shock caps. Once exposed, remove the 3 remaining bolts that hold the shock to the vehicle using a 13mm socket. Retain hardware for reinstallation.



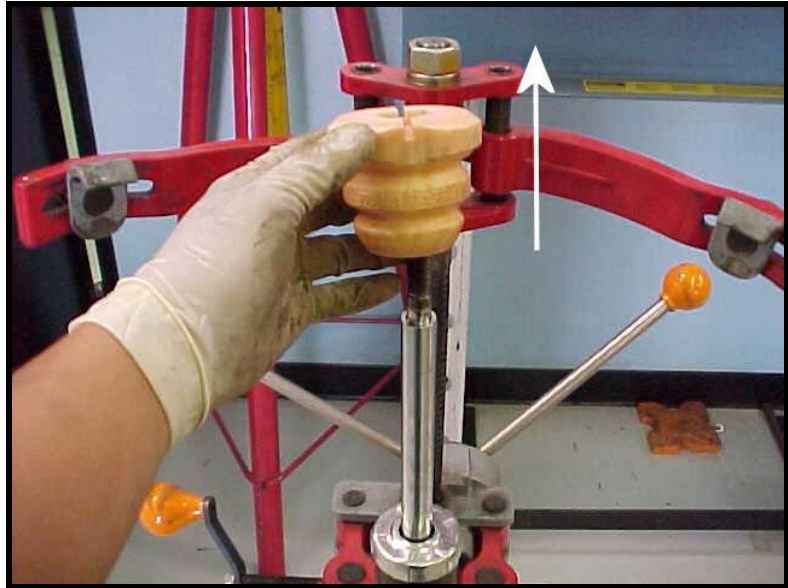
- 7) Once the shock is out of the car, mark the shock top hat and lower perch with whiteout or other marking tool. This will ensure proper orientation for reinstallation.



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



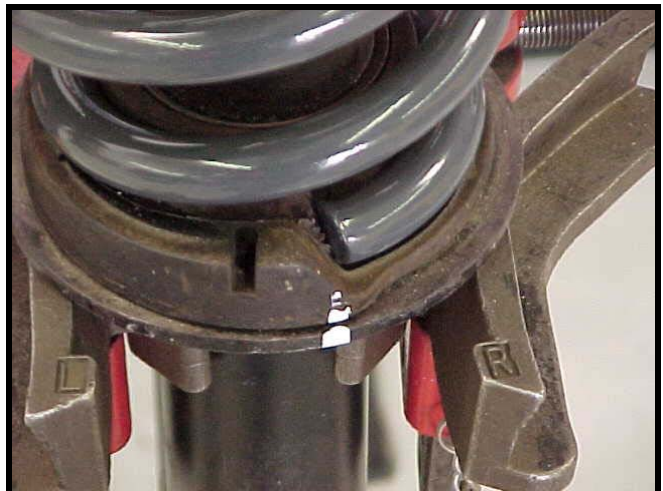
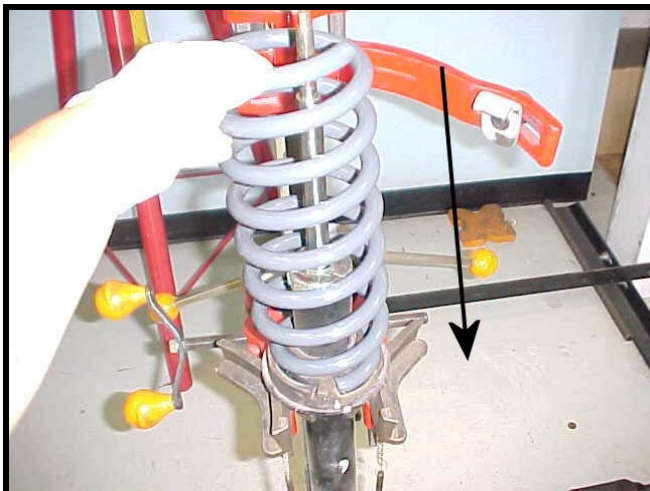
- 9) Remove the top hat, stock bumpstop, and stock spring at this time. Sometimes the bumpstop is pressed into the top hat, in which case, remove the stock bumpstop from the top hat boot.



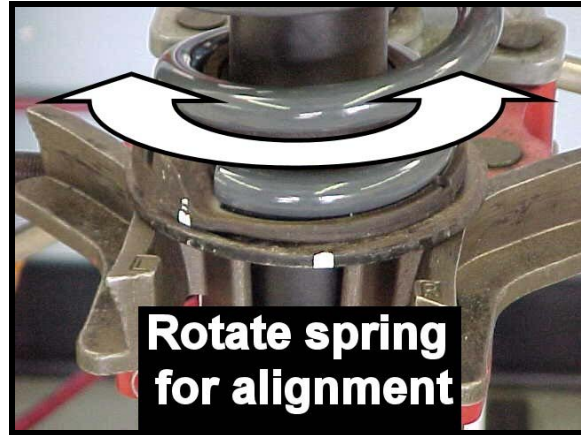
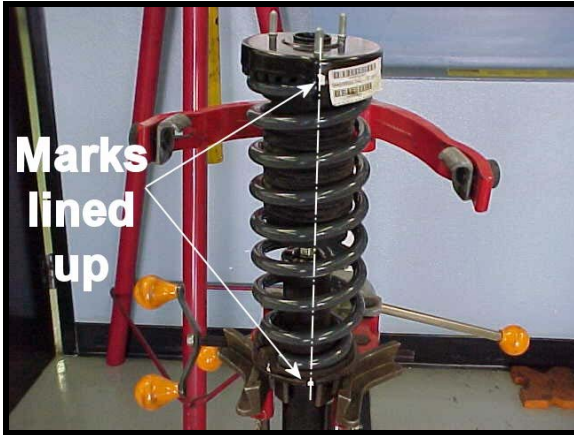
10) Place your new Hotchkis polyurethane bumpstop into the top hat boot assembly as shown in the picture.



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



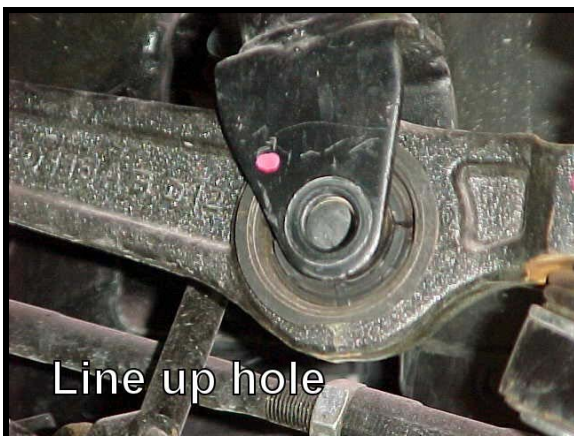
- 12) Before compressing the spring, test fit the top hat onto the shock shaft and see if your marks line up. If not, rotate the coil spring until they align.



- 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.

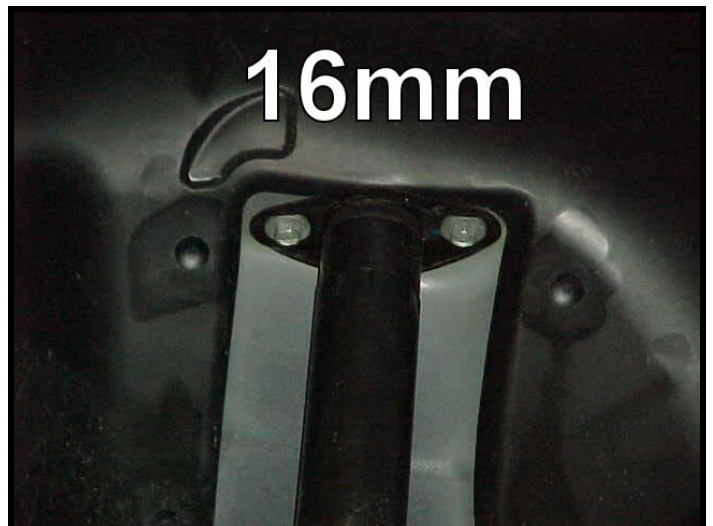
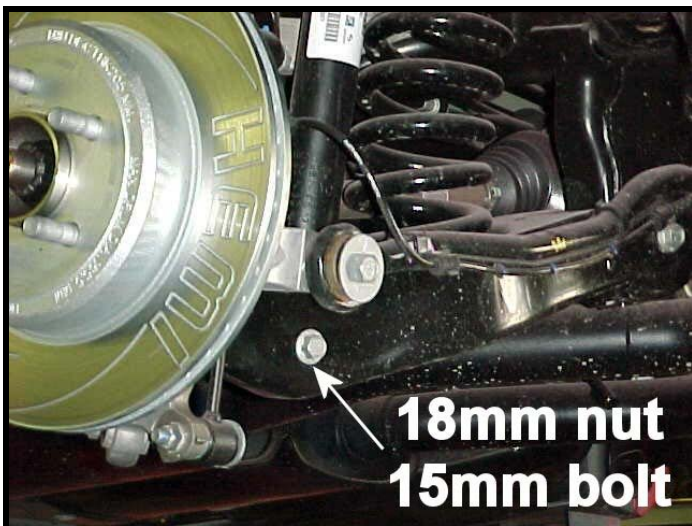
HOTCHKIS SPORT SUSPENSION

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.



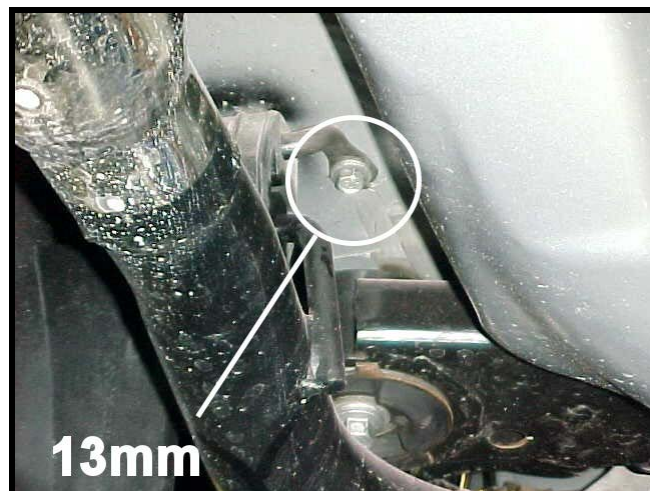
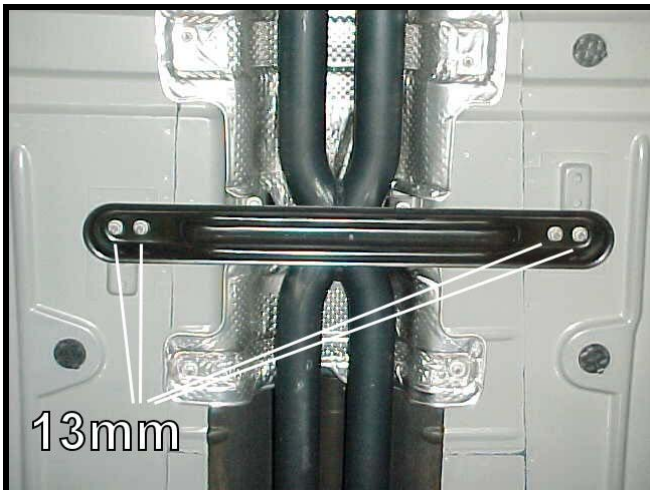
- 3) Begin removing the rear shocks by removing the lower nut and bolt using a 18mm wrench and 15mm socket respectively. Remove the 2 upper shock bolts using a 16mm socket.



- 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.

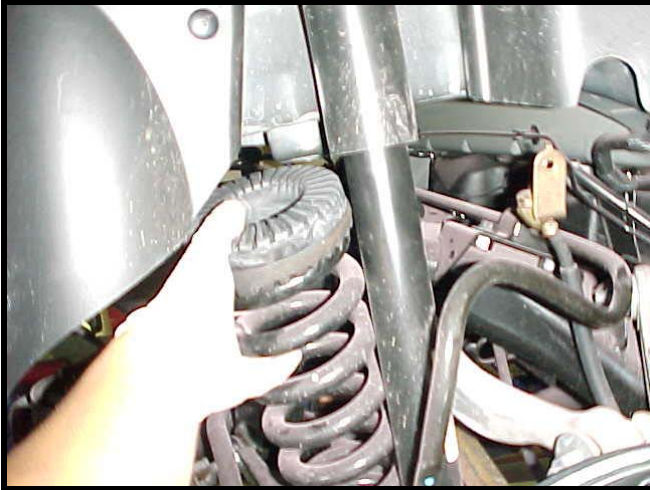


- 7) Once the axle is supported, you can unbolt the 4 bolts that secure the rear cradle to the frame using a 18mm socket.

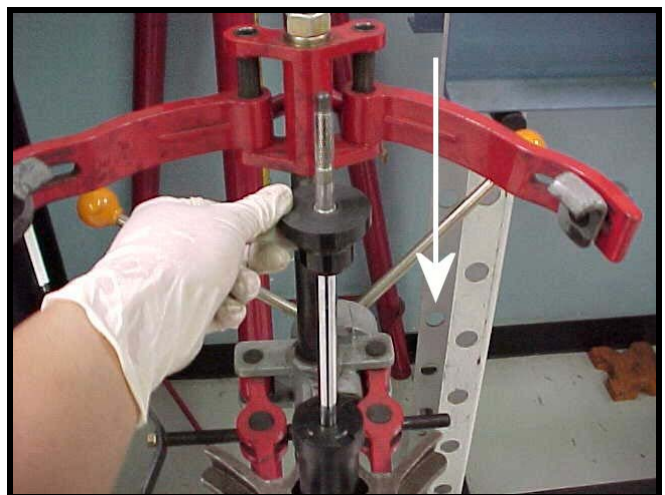
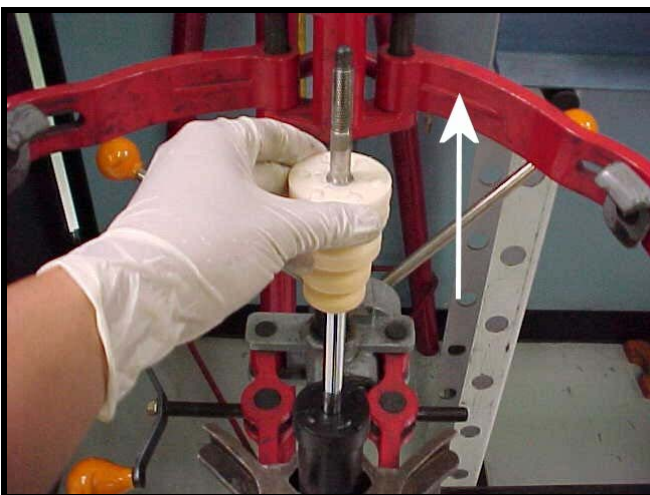
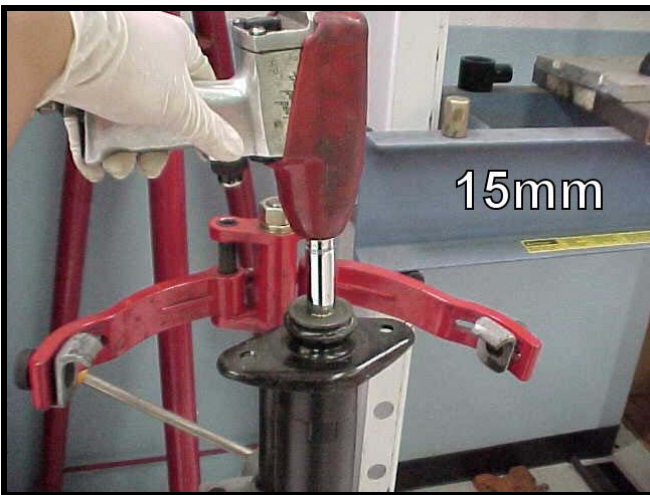


- 8) Lower the jack that supports the axle about 4-5 inches. Make sure not lower it too much to avoid damaging the rear brake hardline.

- 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.

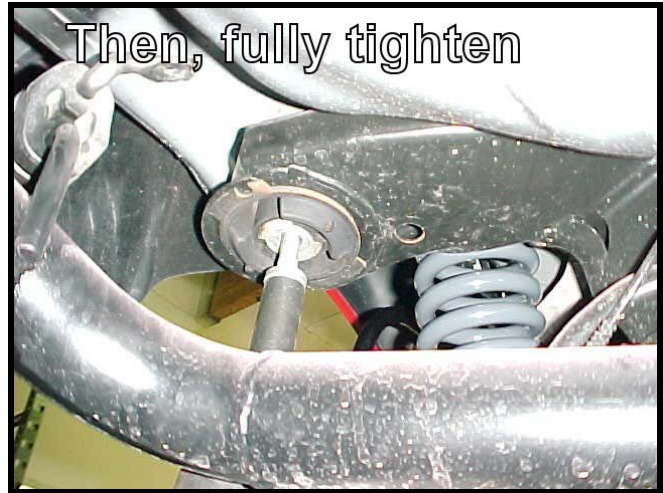


11) Place your new Hotchkis coil springs in the same position as the stock springs were.

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	

