



81233005 2009-2022 Classic Dodge 1/2 Ton

Congratulations - your new TowPro Helper Springs are quality products capable of improving the handling and comfort of your vehicle. As with all products, proper installation is the key to obtaining all of the benefits your kit is capable of delivering. Please take a few minutes to read through the instructions to identify the components and learn where and how they are used. It is a good idea to start by comparing the parts in your kit with the parts list below.

Components

AIR SPRINGS	2020	2
UPPER AIR SPRING SPACER	5690	2
UPPER AIR SPRING MOUNTING PLATE	5505	2
90 DEGREE AIR FITTING	2201	2

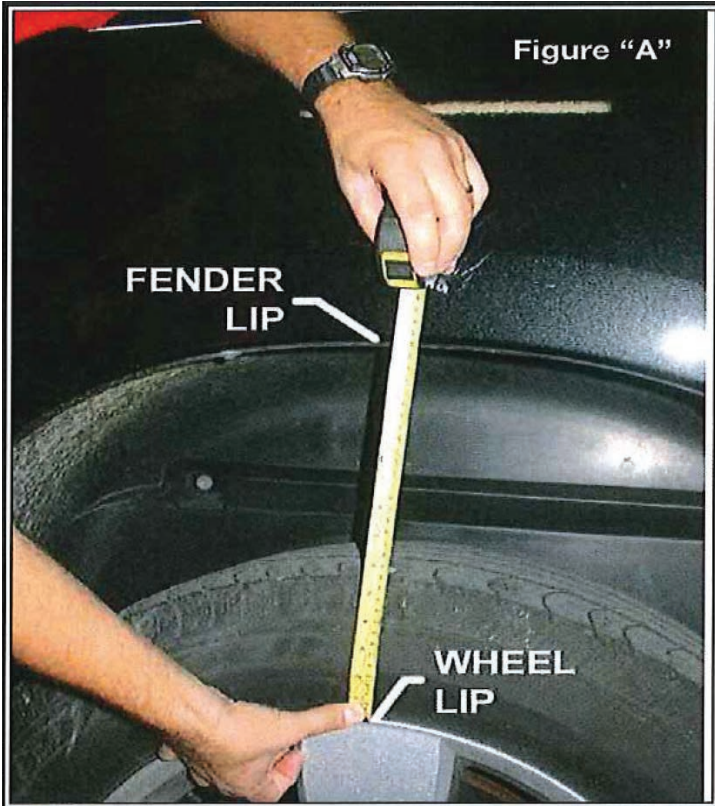
Hardware

UPPER MOUNTING STUDS 3/8" -16 X 2 1/2"	99375001	4
UPPER MOUNT FLATWASHER 3/8" SAE	99373003	4
UPPER MOUNT LOCK WASHER 3/8"	99373005	4
UPPER MOUNT HEX NUT 3/8" -16	99372004	4
LOWER AIR SPRING ATTACHING BOLT 1/4" -20 X 3/4" SHCS	99251005	2





Disassembly and Air Spring Assembly



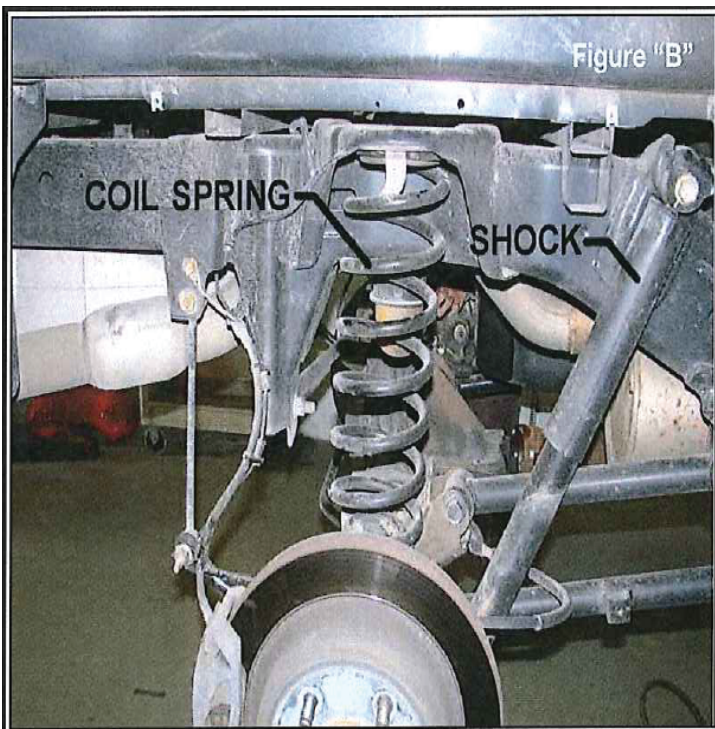
STEP 1: PREPARE THE VEHICLE

Place the truck on a flat surface. Measure and record the height in compressor system instructions. The most accurate way to measure this height is to measure from the lip of the rim to the fender directly above the wheel center(Figure A). Or you can measure from the fender to the ground at the wheel center.

Raise the truck, or the rear of the truck to allow the suspension to relax supporting the truck from the frame. Remove the wheels and the fender liners on both sides.

STEP 2: REMOVE STOCK SHOCKS AND SPRINGS

Support the axle with a Jack underneath it. Remove the lower shock bolt from both sides of the truck(Figure B). Slowly lower the axle to take tension off the coil springs until they are loose. Remove the springs and upper mount. Remove the upper bolt from the shocks to remove them from the truck.



STEP 3: INSTALL THE NEW SHOCKS

Install the new shocks supplied with the kit using the original hardware. The axle will have to be jacked up to attach the lower bolt.

STEP 4: PREASSEMBLE THE AIR SPRINGS

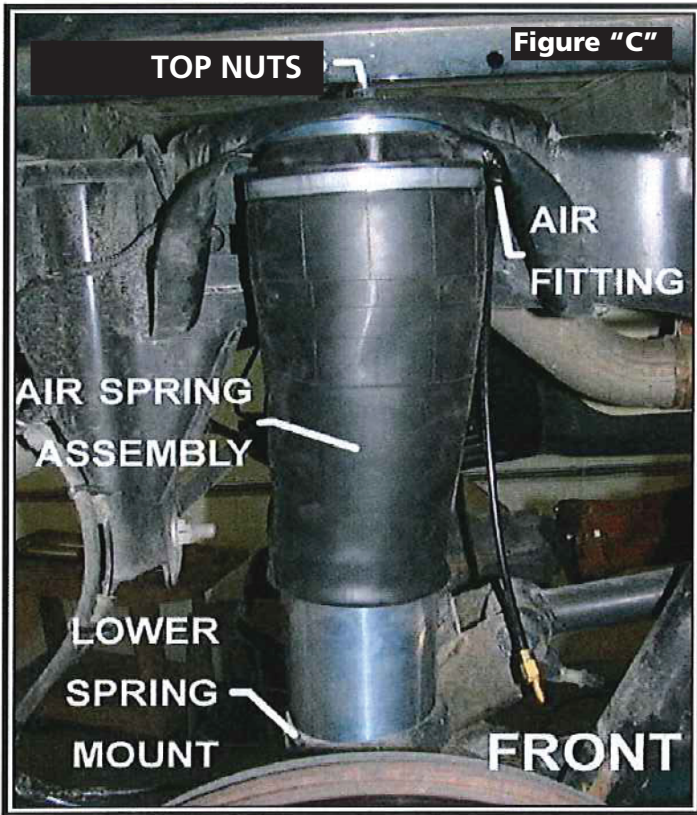
Put thread sealant onto the threads of the 90 degree fitting and install them into the air springs. Install the 4 threaded rods into the top of the air spring. Slide the upper mount over the studs so the flat surface is facing the air spring.

STEP 5: INSTALL THE AIR SPRINGS

The bottom of the air spring assembly has a threaded hole that must face the rear of the truck and the air fitting should face the front of the truck. Place the air spring assembly on the lower axle mount. Using the 1/4"-20 x 3/4" socket head cap screws provided, secure the bottom of the air spring assembly to the lower mount.



Air Spring Installation



STEP 5: CONTINUED

Place the top plate on the top side of the upper mount. Unroll the air spring, by pushing the top of the air spring up, until the air spring assembly reaches the upper mount of the truck. Place the top plate above the truck's upper spring seat by aligning the top plate to accept the threaded studs from the air spring assembly. Install a flatwasher, followed by a lock washer on each stud. Install a 3/8"-26 nut on each stud and hand tighten (Figure C). **DO NOT ALLOW THE AIR SPRING SLEEVE TO TWIST.** Once the air fitting is correctly align towards the front of the truck and you have ensured the air spring sleeve is not twisted, tighten the 3/8"-16 nuts (Figure H).

STEP 6: COMPRESSOR SYSTEM INSTALLATION

Refer to compressor system instructions for installation.

STEP 7: PLACING THE TRUCK BACK ON THE GROUND

With the compressor system in manual mode (round button not pushed in) use the manual switch to inflate the air springs slightly. Ensure the sleeves are rolling over the pistons and are not bound or twisted. **See Figure "D", "E", & "F".**

Reinstall the fender liners and wheels. Slowly lower the truck to the ground, checking frequently to make sure the sleeves continue to roll over the piston.

Once the truck is on the ground, increase the pressure in the air springs so that the measurement from the fender lip is the same as you recorded earlier. This is the height that you will want the arm on the sensor to be level.

