



kelderman®

AIR SUSPENSION SYSTEMS

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2005+ F250/350/450 2-Stage Front Mechanical Height Control Valve

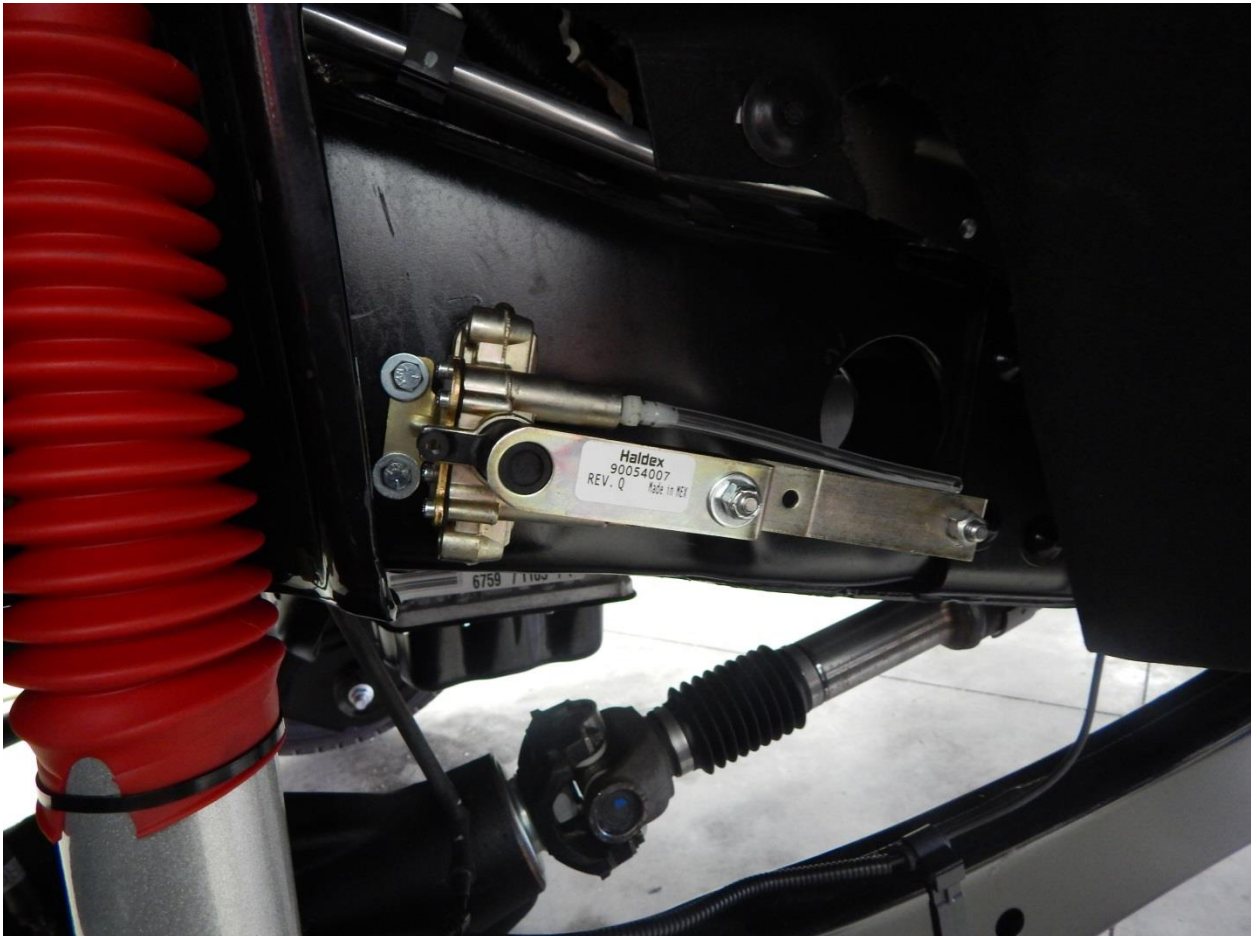
Installation Instructions



2005+ FRONT MECHANICAL HEIGHT CONTROL VALVE INSTALLATION INSTRUCTIONS

NOTE: YOU WILL COMPLETE THESE STEPS ONCE THE AIR SUSPENSION IS INSTALLED.

- 1) Locate the two Haldex height control valves (P/N: 90054007), the four ¼-20 bolts and washers, the two adjustable linkages, and the ball studs included with your suspension order.
- 2) The height control valve will mount onto frame beside the rear portion of spring bucket with the leveling arm facing rearward. Hold the valve up so that there is enough room to drill and tap 2 holes to fasten the valve to the frame, **THE VALVE ARM NEEDS TO AS CLOSE TO 90° AS POSSIBLE**. Using a marker, high light the bolt areas then use a 7/32" drill bolt to drill two holes. You will now need to use a ¼-20 tap so that the bolts will thread directly into the frame. You will now fasten the height control valve to the frame using the supplied ¼-20 bolts, flat washers, and lock washers.



- 3) You will now need to run your air line from your reserve air tank to the lower port on the height control valve, you will also need to run an air line from the middle port to the air bag, and lastly the short piece of air supplied with the valve will go in the top port and be open to the atmosphere. These ports will stay the same on both sides.

- 4) Once you have completed step 3 on both sides of the vehicle you can let the compressor run to fill up the reserve air tank and finally adjust both sides using the height control valves, You will be looking for a ride height of 8" which is measured in between the bag plates.
- 5) Locate the supplied ball studs; you now install these into the radius arms. Using a 9/32" drill bit drill a hole above the factory oval (as close to directly under the valve ball stud as you can) in the radius arm, you will then need to use a 5/16-18 tap. Alternatively you can drill a 3/8" hole and use a nut to hold the ball stud.



- 6) With both sides at 8", you will now need remove the clips at the both ends of the linkage, connect the linkage onto the ball stud of the height valve and reinsert that clip. With the linkage connected at the valve you can now assess whether the linkage needs adjusted or trimmed to connect to the ball stud on the radius arm installed in step 5. Once you have the linkage properly adjusted you will connect the linkage to the radius arm ball stud.
- 7) You will now need to measure your bags again, if needed small adjustments can be made by loosening the small nut in the middle of the height control valves.