



559-734-7451 800-367-5480 FAX 559-734-7460

INSTALLATION INSTRUCTIONS

6006 Air Spring Kit 2001-06 Chevrolet/GMC 2500/3500 HD

Thank you for purchasing a quality Hellwig Product.

**PLEASE READ THIS INSTRUCTION SHEET COMPLETELY BEFORE STARTING
YOUR INSTALLATION**

IMPORTANT NOTES

***DO NOT* INFLATE AIR SPRING ASSEMBLY UNLESS IT HAS BEEN
PROPERLY INSTALLED ON VEHICLE.**

***DO NOT* INFLATE AIR SPRINGS OVER 100 PSI**

**A MINIMUM OF 5-10 PSI MUST BE MAINTAINED IN AIR SPRINGS
AFTER INSTALLATION FOR WARRANTY TO BE VALID. FAILURE TO
KEEP MINIMUM PRESSURE IN AIR SPRINGS WILL VOID WARRANTY.**

**THIS UNIT IS DESIGNED TO INCREASE THE LEVEL LOAD CARRYING
CAPACITY OF YOUR VEHICLE. NEVER LOAD THE VEHICLE THIS
UNIT IS INSTALLED ON BEYOND THE MANUFACTURER'S MAXIMUM
GROSS VEHICLE WEIGHT RATING.**

**OVERINFLATION AND IMPROPER USE MAY RESULT IN PERSONAL
INJURY AND/OR DAMAGE TO YOUR VEHICLE AND PROPERTY.**



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BEFORE STARTING YOUR PROJECT

WHEN LIFTING A VEHICLE WITH A JACK, BE SURE TO SET THE PARKING BRAKE AND USE SAFETY STANDS.

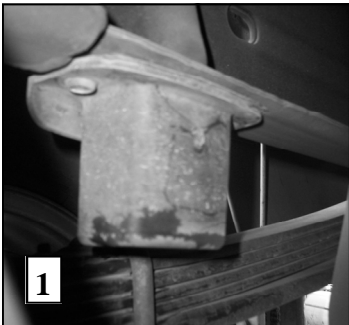
ENSURE THAT THE INSTALLATION OF COMPONENTS WILL NOT CRUSH OR DAMAGE FUEL AND BRAKE LINES OR ELECTRICAL HARNESSSES.

BEFORE DRILLING ANY HOLES, ENSURE THAT ALL ELECTRICAL WIRES, FUEL LINES, BRAKE LINES, BRAKE HOSES AND ANY OTHER COMPONENTS ARE MOVED OR PROTECTED TO AVOID DAMAGE FROM DRILLING ANY HOLES .

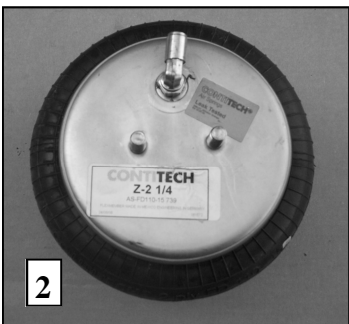
DO NOT ATTEMPT ANY MODIFICATIONS TO THE VEHICLE OTHER THAN THOSE OUTLINED IN THIS INSTRUCTION SHEET. IF ANY INTERFERENCE WITH THE GAS TANK, FUEL LINES, BRAKE LINES, EXHAUST PIPE, ETC. EXISTS, STOP YOUR INSTALLATION AND CALL HELLWIG PRODUCTS FOR TECHNICAL HELP.

IF WHEELS ARE REMOVED FOR INSTALLATION OF KIT, CHECK MANUFACTURERS SPECIFICATIONS FOR PROPER LUG NUT TORQUE BEFORE REINSTALLING WHEELS.

WHEN CUTTING AIR BRAKE TUBING A SQUARE CUT IS REQUIRED OR LEAKAGE MAY RESULT.

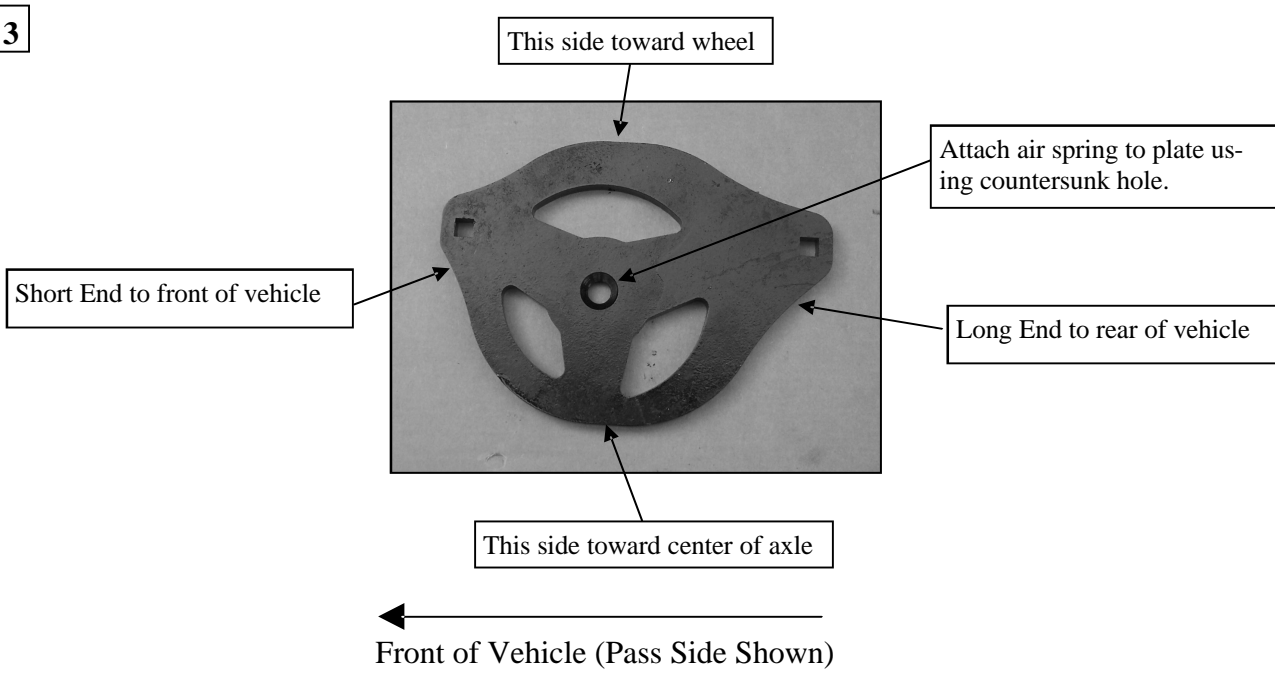


1. Park vehicle securely and set parking brake and chock wheels. Remove factory bump stops from vehicle by removing nuts from studs using a 15mm wrench or socket



2. Install elbow fitting in port of air spring. Torque fitting to approximately 20 ft-lb. Make sure that fitting is oriented as shown in photo.

3



This side toward wheel

Attach air spring to plate using countersunk hole.

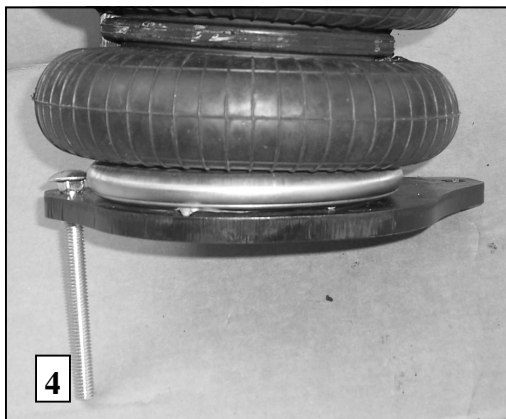
Short End to front of vehicle

Long End to rear of vehicle

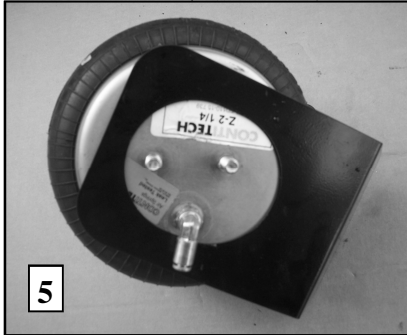
This side toward center of axle

Front of Vehicle (Pass Side Shown)

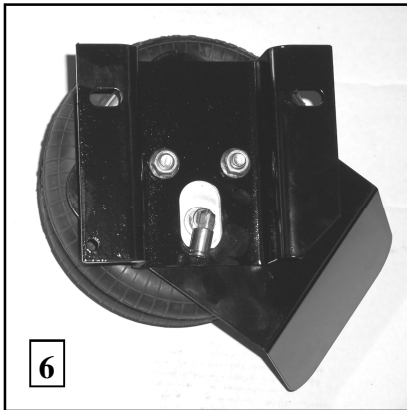
3. Lay out base plate as shown in photo. The air spring mounting hole is countersunk on both sides to allow the plate to be oriented correctly for both the left and right sides of the vehicle. (Passenger side shown) Attach air spring to plate using 3/8" flathead bolt. Tighten to 20 ft-lb.



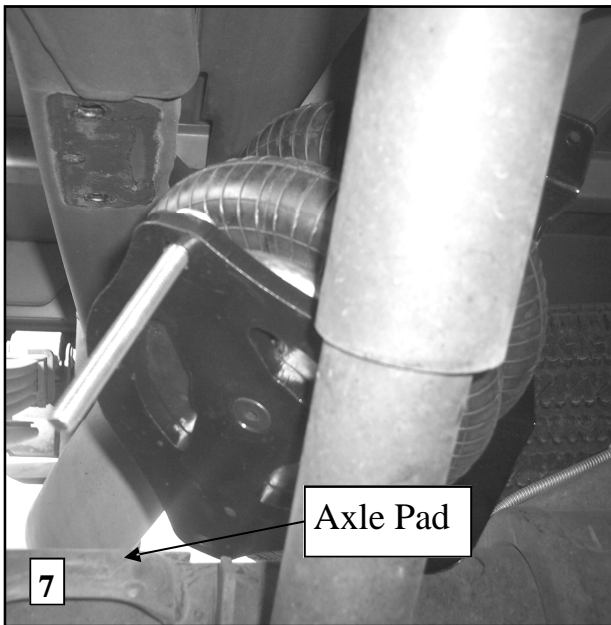
4. Insert a carriage bolt in the forward square hole and attach air spring to plate using the 3/8 x 1" flat head cap screw provided. Torque to 20-25 ft-lb.



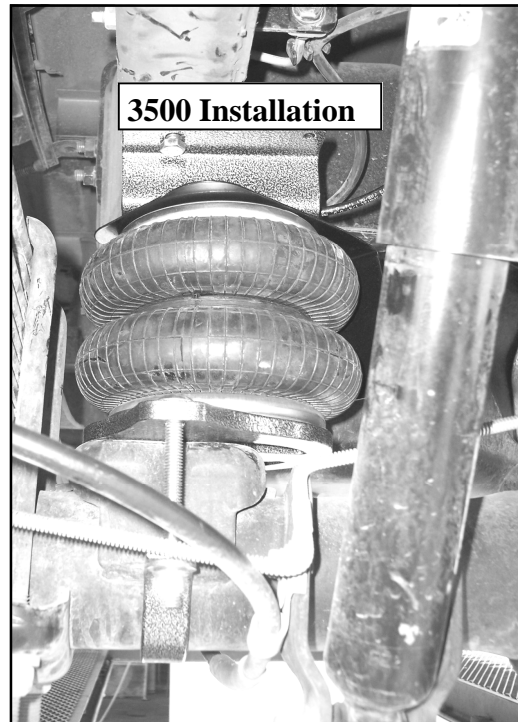
5. Place heat shield over top of air spring assembly as shown. (Passenger side shown. Drivers side heat shield is oriented to front of vehicle) Driver's side heat shield must be oriented to keep emergency brake cable from rubbing on air spring.



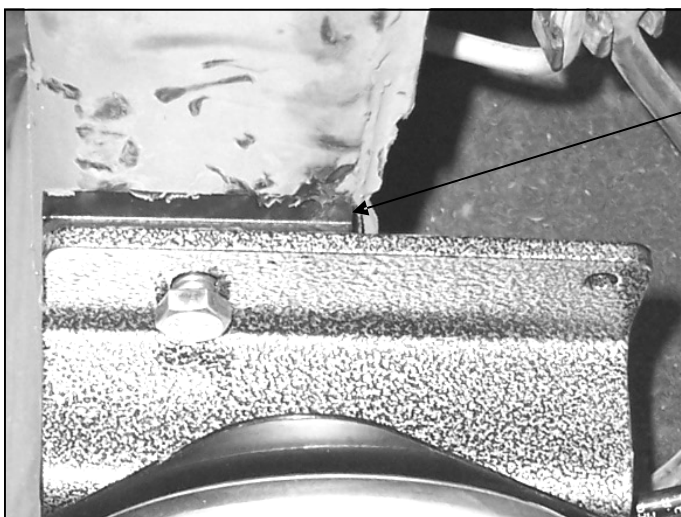
6. Place frame bracket over air spring assembly and attach using 3/8" flange nuts. Torque nuts to 20 ft-lb. Passenger side shown.



7. Compress air spring assembly and place on top of bump stop plates on top of the axle pad. **MAKE SURE THAT THE ASSEMBLY WILL NOT DAMAGE OR CRUSH BRAKE LINES, WIRING HARNESSSES, OR EMERGENCY BRAKE CABLES.**



8. Slide spacer plate with two slotted holes between frame rail and upper bracket as shown in photos and attach assembly to frame rail using 3/8 x 1-1/4 bolts and flange nuts. Check alignment of heat shield and torque nuts to 20-25 ft-lb.





9. On 2500HD installations, it may be necessary to trim the corner of the shock bracket 1/16" - 1/8" to allow the plate to sit flush on axle pad.



10. When the assembly is aligned properly, install axle strap using carriage bolts and remaining nuts and washers. It may be necessary to flex the brake lines slightly to allow clearance for the axle strap. **MAKE SURE AXLE STRAP AND CARRIAGE BOLT WILL NOT CONTACT BRAKE LINE.** Tighten nuts until the strap ends flex slightly. The carriage bolts are designed to be long enough for the 3500 HD installation. For 2500 HD applications they can be cut shorter if desired.



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11. Complete passenger and driver's side installation of air spring assembly.
12. Select a location for the air inflation valves. The location can be on the bumper or body of the vehicle where an air chuck can be used to inflate the air springs. Select a location where the valve will not be damaged or interfere with the operation of other components.
13. Cut air brake lines to length and connect air lines to fittings by pushing the air line into the air fittings as far as possible. **WHEN CUTTING AIR BRAKE TUBING, A SQUARE CUT IS REQUIRED AND THE HOSE END MUST NOT BE DEFORMED OR LEAKAGE MAY RESULT. IF DEFORMATION OF THE HOSE END OCCURS, THE HOSE END MUST BE REWORKED SO THAT IT IS ROUND.** Engagement of the sealing O-ring will be felt when the air line has been inserted properly into the fitting. Fittings may be disconnected if required by pushing down on the outer ring while pulling firmly on the air line. Route air lines away from exhaust pipes or any other sources of heat and ensure that the air lines are protected from sharp edges. A length of heat shielding is provided to protect the air line as it exits the passenger side air spring.
14. Inflate air springs to 40 psi and check for leaks. A soapy water solution can be used to find slow leaks.
15. When satisfied with integrity of the system, adjust air pressure to desired level. The air springs can be inflated to any level between 10 and 100 psi. **DO NOT** run the air springs empty or warranty will be void. **MINIMUM** air spring pressure is 5 psi. Failure to keep air in the air springs will void the warranty. For best **RIDE** use only enough air pressure as required to level the vehicle. If a firmer ride is desired, more pressure can be used.
16. Check air pressure in the system regularly to ensure system performance and maintenance of warranty. Just like tires, the air pressure in the system will vary due to temperature changes. For your air spring system to function properly it must be checked on a regular basis.

ATTENTION INSTALLER: BE SURE THAT THE CUSTOMER RECEIVES THIS INSTRUCTION SHEET, ALL IMPORTANT NOTE CARDS AND THE WARRANTY FORM.