



559-734-7451 800-367-5480 TechSupport@HellwigProducts.com

INSTALLATION INSTRUCTIONS

6298 Air Suspension Kit (pat. pending)

Thank you for purchasing a quality Hellwig Product.

PLEASE READ THIS INSTRUCTION SHEET COMPLETELY BEFORE STARTING
YOUR INSTALLATION

IMPORTANT NOTES

**IF EQUIPPED WITH FACTORY PREMIUM RIDE OR
AUTOLEVEL SUSPENSION, CONTACT HELLWIG
PRODUCTS CO. FOR FURTHER INSTRUCTIONS.**

***DO NOT* INFLATE ANY 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.**

TORQUE TABLE

BOLT SIZE: 3/8" = 20-30 ft. lbs. – 7/16" = 35-45 ft. lbs. – 1/2" = 50-70 ft. lbs. – 9/16" = 70-90 ft. lbs.



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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.

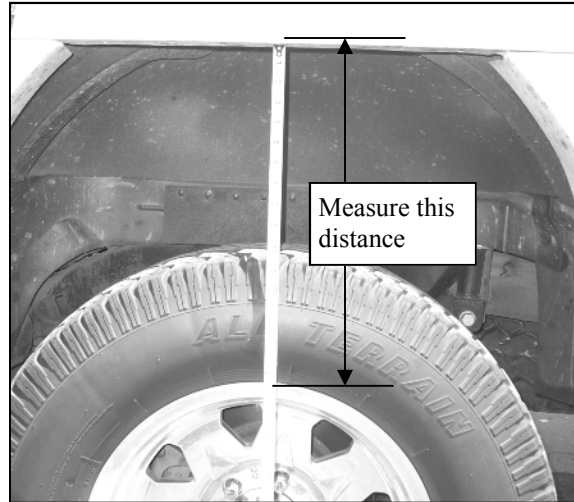
IF WHEELS ARE REMOVED FOR INSTALLATION OF KIT, CHECK MANUFACTURERS SPECIFICATIONS FOR PROPER LUG NUT TORQUE BEFORE REINSTALLING WHEELS.

WHEN CUTTING AIR BRAKE TUBING, A SQUARE CUT IS REQUIRED 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.

Part A Air Spring Installation

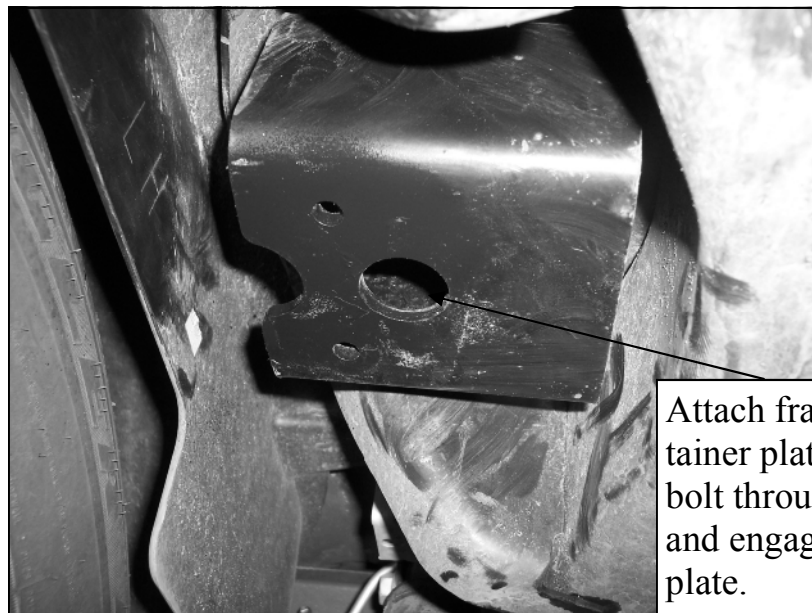
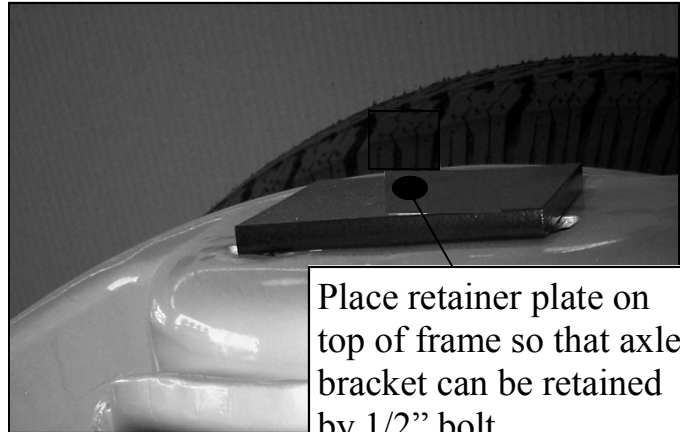
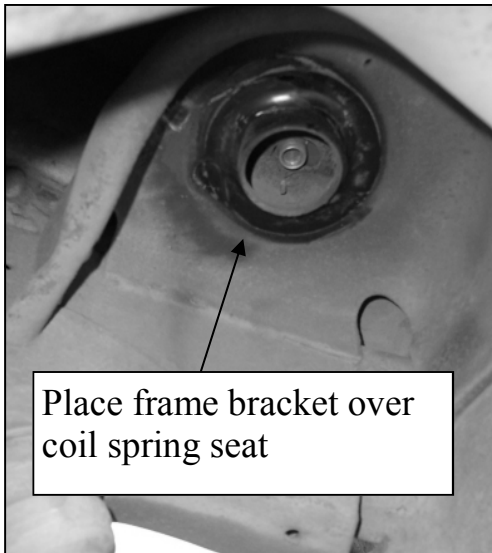


1. Prepare vehicle for installation by chocking front tires and setting emergency brake. Before starting installation, measure the distance from the top of rear wheel to fender lip as shown. This is the original ride height of the vehicle. Write this measurement down as this will be used to set the height of the air springs later in the installation.



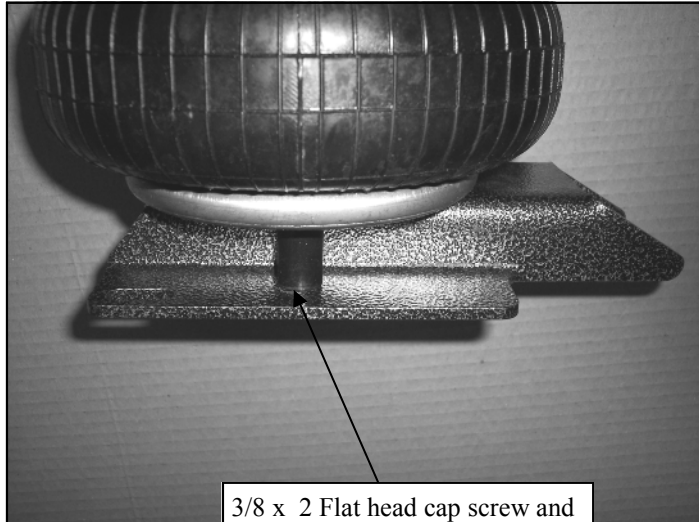
2. For ease of installation, position the rear wheels on automotive ramps. Ensure vehicle is secure and disconnect shock absorbers from rear axle. Raise vehicle frame until coil springs are unloaded. Support frame with jack stands and remove coil springs and insulators from vehicle. Do not remove bump stops from frame.



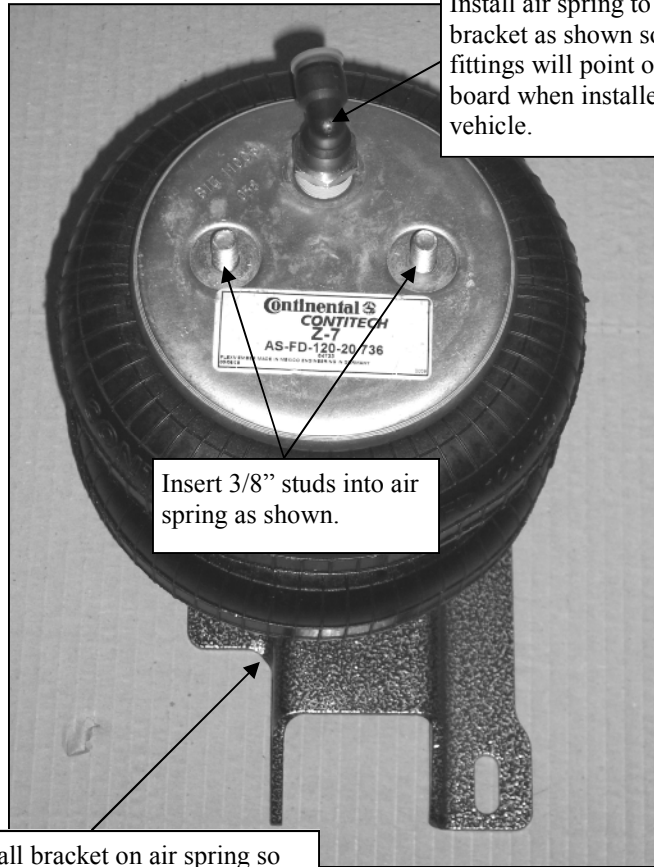


3. Place retaining plate on top of rail as shown. Locate frame bracket on coil spring seat as shown with the notch pointing outboard. Insert 1/2 x 2-1/2 UNC bolt through hole in frame bracket and tighten into threads in frame plate. Align bracket to be square with the frame and axle and tighten bolt to 35 ft-lb.

Passenger Side Shown
Driver Side Opposite

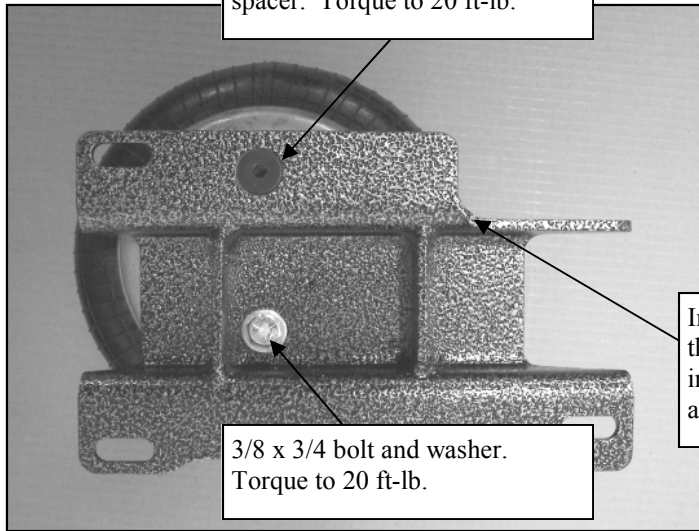


3/8 x 2 Flat head cap screw and spacer. Torque to 20 ft-lb.



Install air spring to axle bracket as shown so that fittings will point out-board when installed on vehicle.

Insert 3/8" studs into air spring as shown.



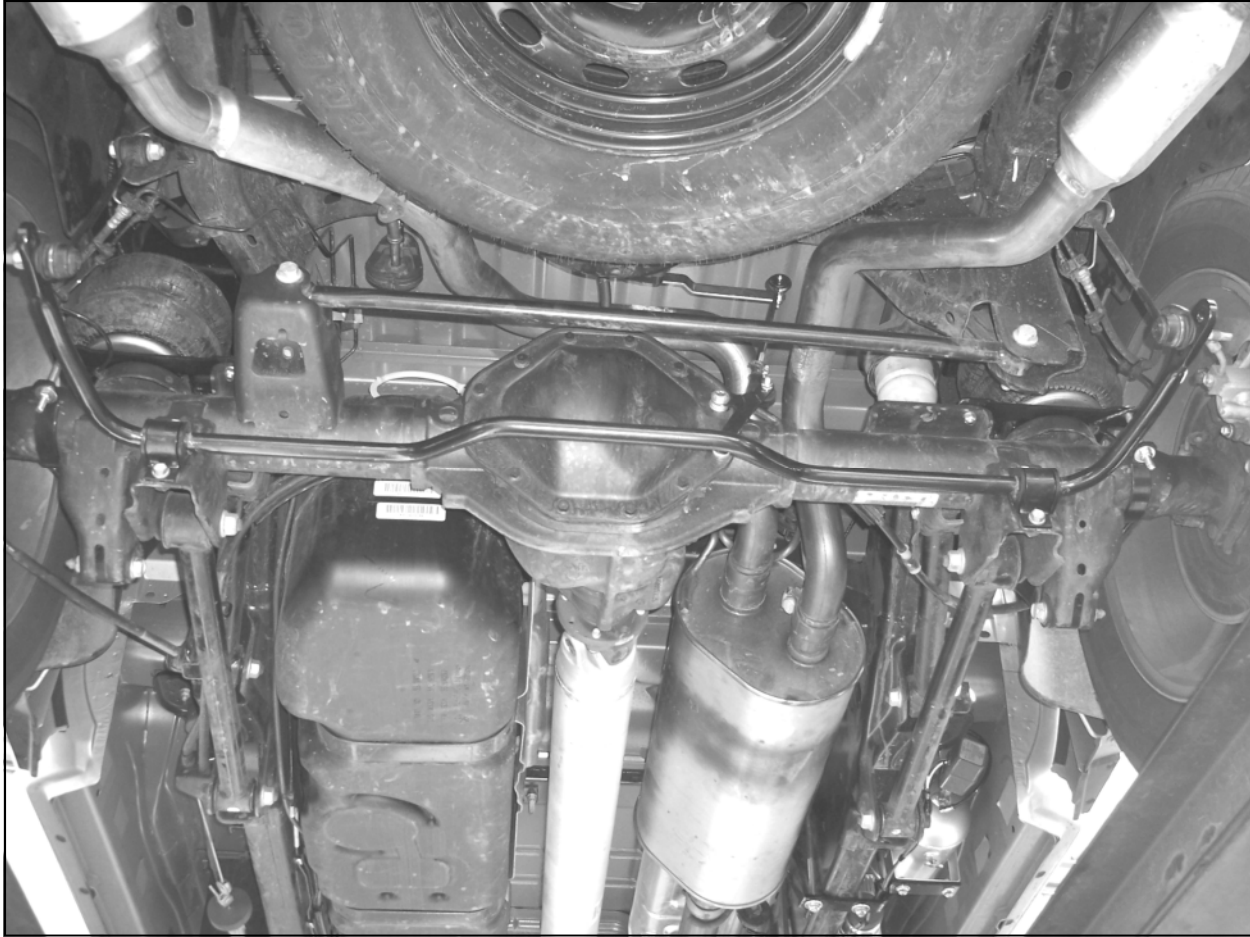
3/8 x 3/4 bolt and washer. Torque to 20 ft-lb.

Install bracket on air spring so that notch is located on forward in board side when installed on axle.

4. Assemble air spring to axle bracket as shown. Make sure to orient axle bracket so that the notch will clear brackets welded to axle assembly. Install fittings in air spring and torque to 20 ft-lb.



5. Install air spring assembly on axle as shown. Insert studs in air spring through holes in frame bracket and attach air spring using 3/8" flange nuts. Torque to 20 ft-lb. Insert carriage bolts into outer slotted holes and attach strap to axle with 3/8" washers and locknuts. Leave loose for adjustment later. Align air spring and mark hole for 13/32" (.406) hole to be drilled in axle bump stop flange as shown. Attach axle bracket to flange using 3/8 X 1" bolt, washers and locknut. Tighten bolt to 20-25 ft-lb. Tighten carriage bolts to 20 ft-lb.



6. Press the 1/4" air brake tubing into the fitting on the air bag. Run the tube to the location you want to mount the Schrader valves. Use the included zip ties to hold the lines in place and keep them tucked away from any moving parts. If there is a chance of the lines rubbing on a undercarriage components, use the included fabric loom to protect them by sliding it over the air line until it reaches the area in question. Try to keep the lines away from the heat of the exhaust.

7. Cut the line with a hard knife to keep a square cut and then press the Schrader valves onto the end and mount them in the location you chose. Repeat for both sides, running individual lines for each air bag. Do not run both bags off one Schrader valves with a "tee" fitting.

8. Check installation that all bolts are torqued properly and that there is not interference with brake lines or cables, electrical wires, fuel lines, exhaust pipes or any other chassis or suspension related component throughout the suspension travel. Reattach shock absorbers to axle brackets and tighten bolts to factory specification.



9. Test system by adding air to air springs. Check all connections with soapy water for leaks. 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.

10. Fill the bags until the ride height matches the measurements from Step 1.

11. Recheck all components and test drive vehicle. Re-check all components for mounting and proper torque. Check clearance to all vehicle components including suspension components, exhaust pipe, brake lines, fuel lines, hoses, etc. Re-check installation on a regular basis afterward.

Maintenance and Inspection:

Your Hellwig Suspension Product is built to last. However, as with all vehicle systems, it requires routine inspection. Inspect your Hellwig installation looking for secure hardware, tight fittings and no wear on the air

Hellwig Products Company, located in Visalia, California was founded in 1946 with solutions for load control of loaded passenger cars. The family operated company produces components for trucks, RVs, muscle cars and military vehicles. Hellwig is ISO9001 certified and is proud to develop, test and manufacture products in the USA.