



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

INSTALLATION INSTRUCTIONS

4880 Auto Level Compressor Kit

Thank you for purchasing a quality Hellwig Product.

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

IMPORTANT NOTES

***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.**



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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.



1. Prepare the compressor for mounting by HAND-TIGHTENING the air filter into the port on the compressor. Select a convenient mounting location for the compressor where it will be protected from moisture and debris but has enough air flow to keep the compressor from overheating. Mount compressor using provided hardware. Select a mounting location for the tank as close to the compressor as possible. It is preferred to connect the braided stainless hose directly to the tank. If necessary, adapters are provided with the compressor to connect nylon hose from the tank to the compressor hose. Do not remove the braided hose or check valve from the compressor.



2. Select a location for the leveling valve. Make sure that the axle will not contact the valve or plumbing during use. The leveling valve mounting bracket has multiple holes for mounting the valve and can be cut off if needed to provide clearance. Attach mounting bracket to vehicle bed support with supplied 5/16 bolts. See following diagrams for valve installation.

Leveling Valve Installation Diagram

Attach leveling valve mounting bracket to bed rail by drilling 3/8" dia. holes and fastening with 5/16" bolts supplied. Locate valve so that the valve and plumbing will not contact axle during use.

To set ride height, center leveling valve by inserting 11/64" drill bit in hole in handle and body.

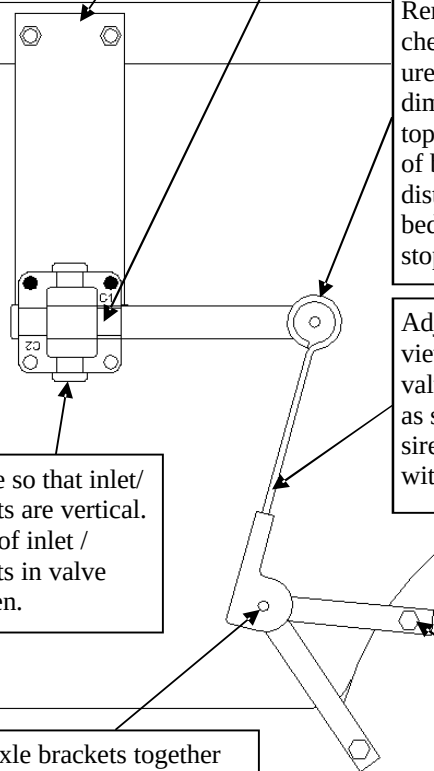
Remove drill bit and rotate arm up and down to check for clearance to vehicle components. Measure axle bump stop clearance and add 1-1/2". This dimension represents how much clearance above top of linkage is required for valve to clear bottom of bed. With arm of valve centered. Measure the distance from the top of linkage to the bottom of bed. This distance must be greater than the bump stop dimension obtained.

Adjust stud pins so that linkage is vertical when viewed from side of vehicle. Adjust position of valve and axle brackets so that linkage is positioned as shown when viewed from rear of vehicle at desired ride height. Secure adjustable end of linkage with supplied hose clamp to lock height setting.

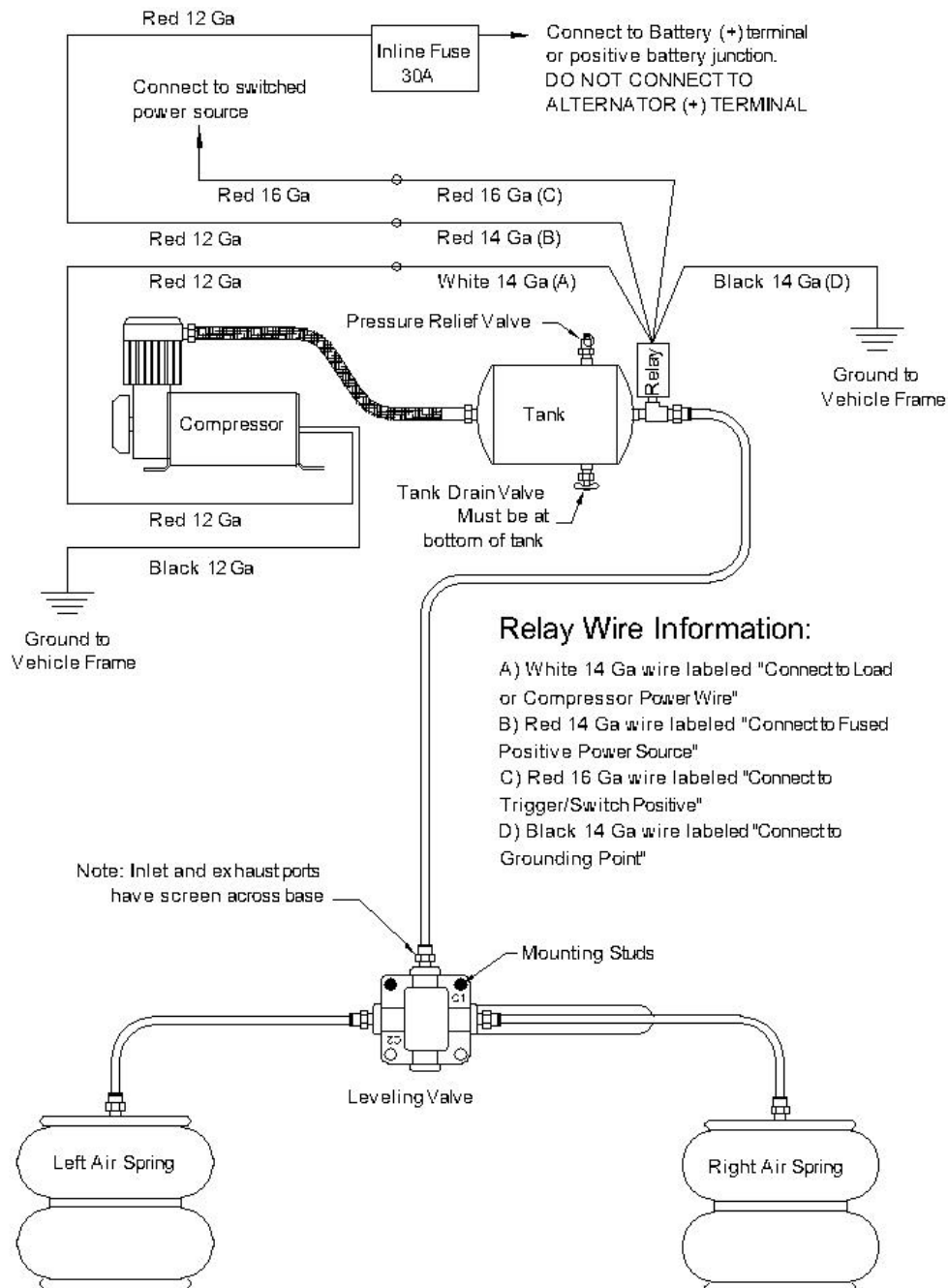
Orient valve so that inlet/exhaust ports are vertical. Note: Base of inlet / exhaust ports in valve have a screen.

Attach axle brackets together using stud pin. Orient stud pin forward or rearward for best orientation of linkage.

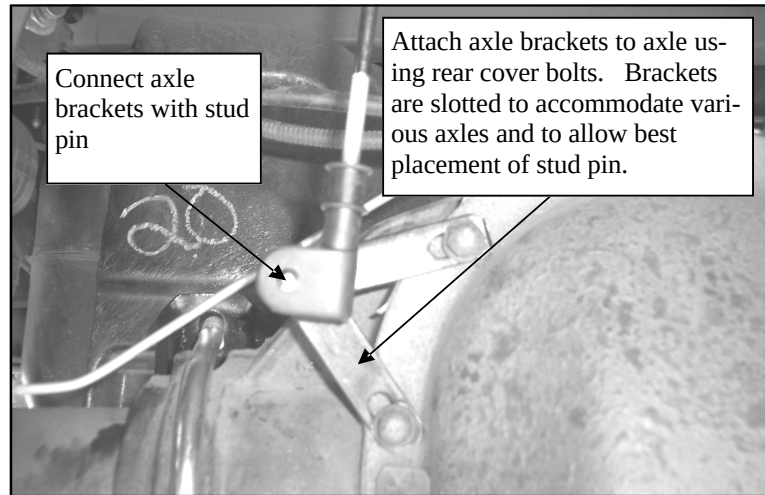
Attach axle brackets to axle using rear cover bolts. Brackets are slotted to accommodate various axles and to allow best placement of stud pin.



Plumbing and Wiring Diagram



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3. Install axle brackets as shown in diagram and photo above. Care must be taken to install linkage so that it will not bind in use and that the leveling valve arm will not contact any other components during use. Rotate valve and confirm that it will rotate freely and without interference. Measure the axle to bump stop clearance and add 1-1/2" to this dimension. With the valve centered, measure from the top of the linkage to the bottom of the bed. This dimension must be greater than the bump stop dimension obtained earlier. Hellwig Products Co. will not warrant any components which are bent or damaged due to contact with other vehicle components. Due to the universal nature of this kit, it is up to the installer to confirm that the linkage, valve, and brackets will perform correctly and without interference.

4. Follow plumbing and wiring diagram for connection of leveling valve, compressor, and relay. Take care when routing air and electrical lines that they will not be crimped or chafed during installation or use. Deviation from the electrical diagram and failure to use an inline fuse holder (supplied) will void warranty. DO NOT install fuse in inline fuse holder until all connections and circuits are verified to be completed correctly.

5. After all connections have been verified, install fuse in inline fuse holder, apply park brake and start engine with shifter in park or neutral. Due to the amperage draw of the compressor, failure to turn engine on during initial startup may drain the battery enough to require a jump start.

6. Test system by adding air to air springs. Disconnect linkage from arm and rotate arm up to fill air springs. Check all connections with soapy water for leaks. After the integrity of the system is verified, reconnect linkage to valve. 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.

Installation Reference Photos

