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INSTALLATION INSTRUCTIONS

6306 Air Spring Kit

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.**

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.

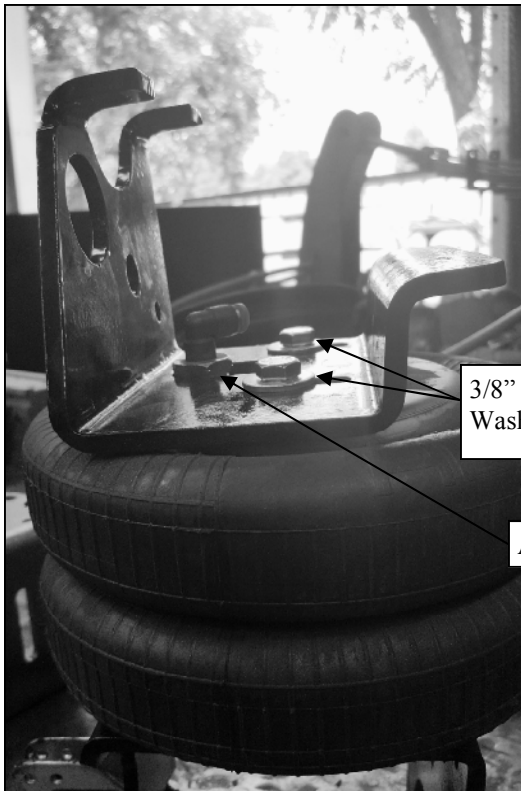
ENSURE THAT THE INSTALLATION OF COMPONENTS WILL NOT CRUSH OR DAMAGE FUEL AND BRAKE LINES OR ELECTRICAL HARNESES.

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.

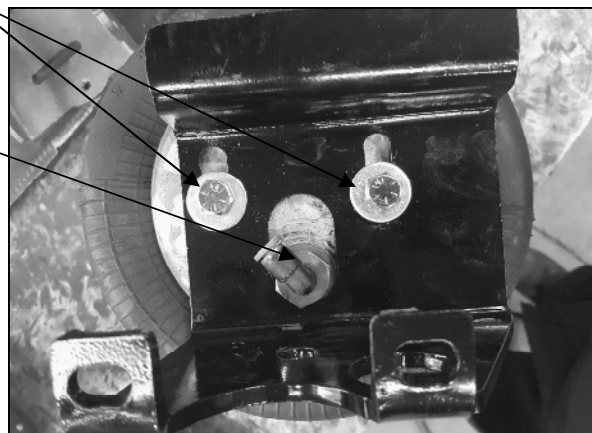


3/8" Bolts and Washers

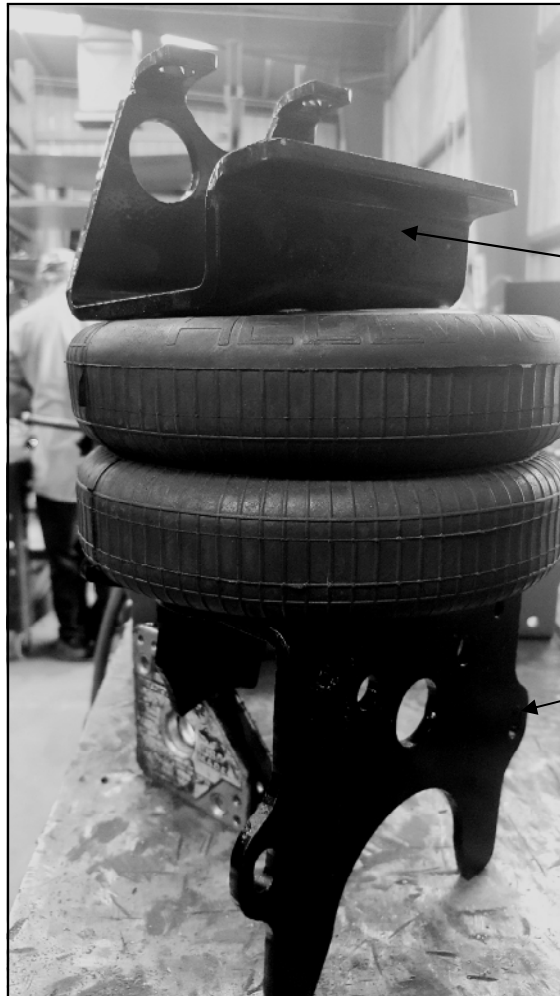
Air Fitting

2. Tighten the 90 degree air fitting into the top of the Hellwig air bag. The hole may be covered by a sticker.

3. For the driver side, use the shorter 3/8" bolts and larger washers, bolt the top plate to the top of the air bag in the slotted holes. Leave loose at time to adjust later.



4. For the passenger side, follow the same Step 2 and 3 except install the thin, heat shield between the top plate of the air bag and the bracket.



Top bracket's shorter leg

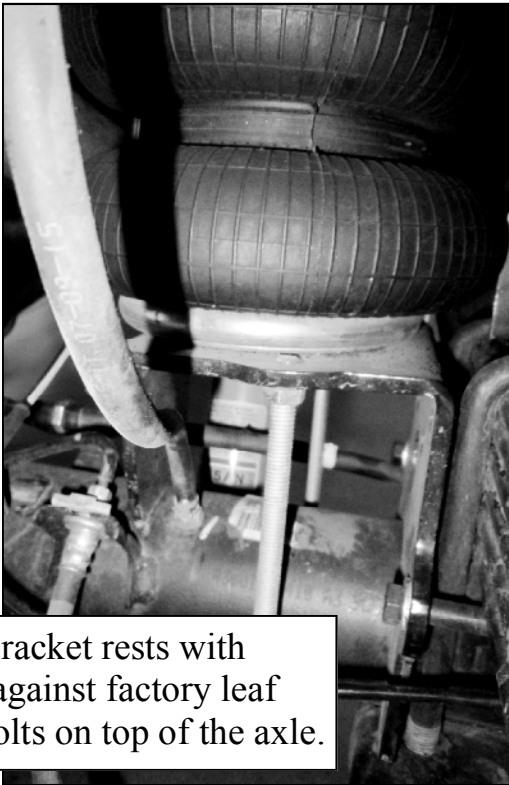
Bottom bracket's longer leg

5. Attach the other bracket to the bottom of the air bag using the shorter 3/8" bolts and larger washers through the slotted holes. Leave these loose at this time too for later adjustment. The long leg of the bottom bracket should be on the same side as the short leg of the top bracket.



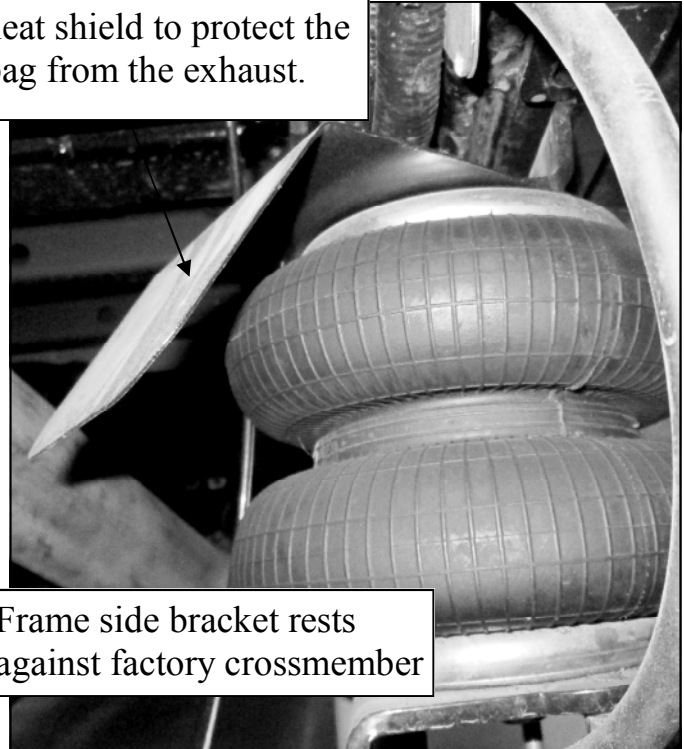
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6. Place the air bag assembly between the frame and axle underneath the vehicle as shown in the pictures.



Axle side bracket rests with longer leg against factory leaf spring U-bolts on top of the axle.

Notice orientation of heat shield to protect the bag from the exhaust.

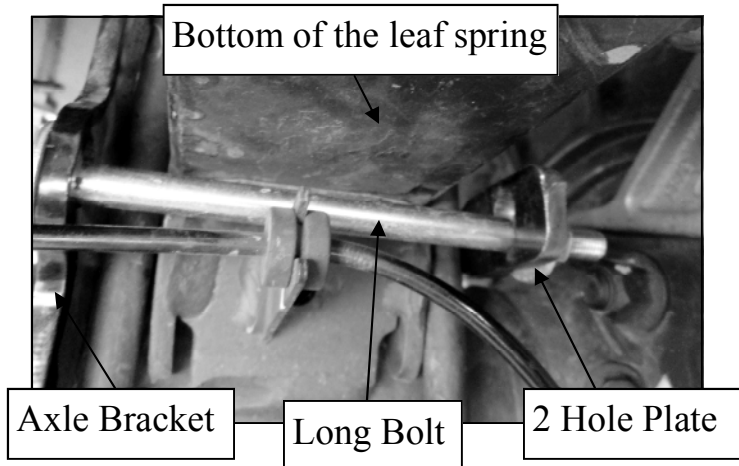


Frame side bracket rests against factory crossmember

7. Adjust the bags in the slotted holes to maximize clearance to undercarriage components including the bump stop as well as making sure the air bag is vertical and not twisted.

8. Torque all bolts to 30 ft-lbs.

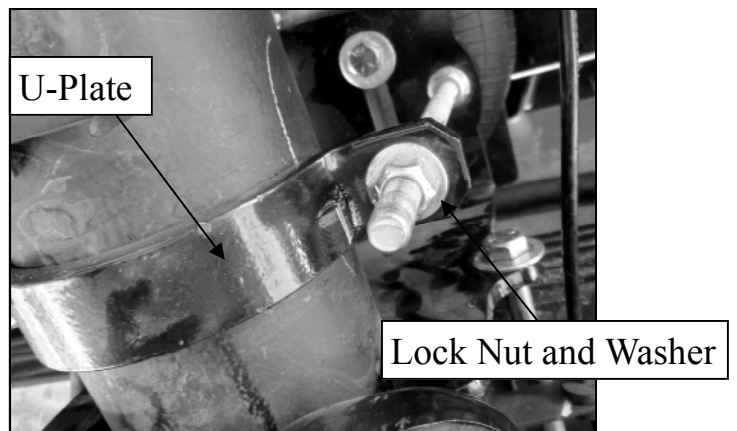
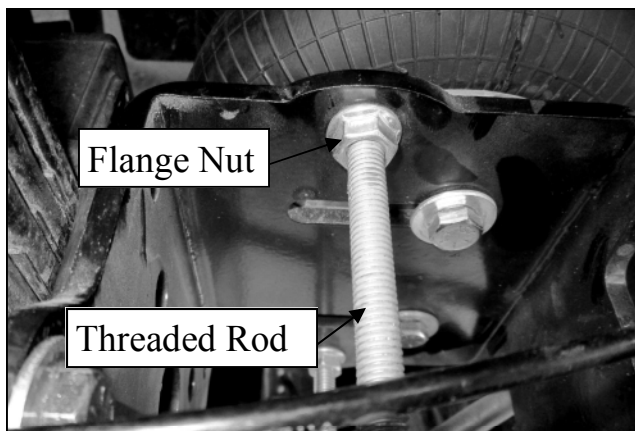
9. Use the long bolt, lock nuts and larger washers through the axle bracket and the long, two hole bracket to clamp the axle bracket to the leaf spring block. This should pull the bracket against the factory U-bolts. Torque the bolts to 30 ft-lbs.



10. Thread a 3/8" flange head nut onto the long piece of threaded rod and then thread the rod into the tapped holes in the axle side plate so the hang down past the axle and the top of the threaded rod is flush with the top of the bracket.

11. Tighten the flange nut against the bracket to 30 ft-lbs to lock the threaded rod into the axle bracket.

12. Place the U-plate over the bottom of the threaded rods making sure it will not pinch any brake lines, wires, etc and attach using lock nuts and the large washers. Make sure the bracket is parallel to the top bracket and tighten to 30 ft-lbs.



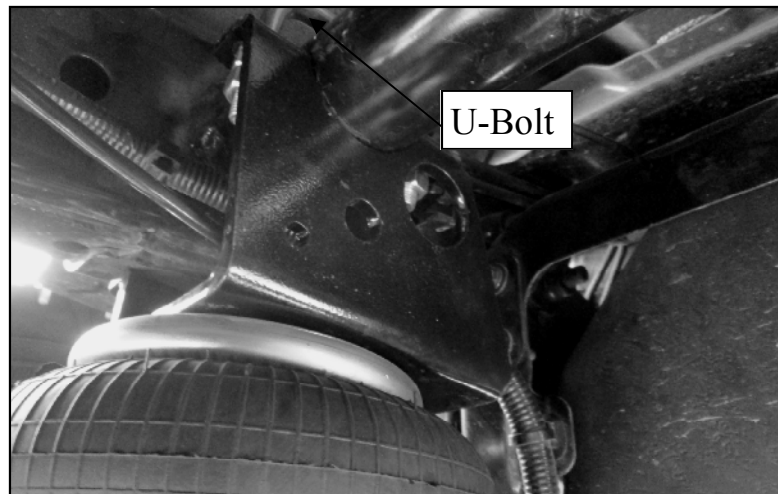


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13. Place the U-bolt over the round crossmember between the framerails and through the flanges on the frame side bracket making sure no wires, hoses, etc are pinched by the U-bolt.

14. Using the smaller washer and the standard nuts, tighten the U-bolt to 30 ft-lbs. The washer will form to the inside radius of the bracket.

15. Run a second nut onto each leg of the U-bolt and tighten those to 30 ft-lbs to double nut them and keep them from coming loose.



16. Cut air brake lines to length and connect air lines to fittings in the air bag 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.** Fittings may be disconnected if required by pushing down on the outer ring while pulling firmly on the air line.

17. Route air lines away from exhaust pipes or any other sources of heat and ensure that the air lines are protected from sharp edges. Run the air lines to the location of the Schrader valves (or the Hellwig air compressor kit which is available separately) and cut to length. Secure the air lines with zip ties.

18. Press the Schrader valve onto the end of the air lines and secure in place using the nut on the valve.



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19. Check your installation to ensure that all fasteners are tight and that the assembly and all fasteners clear brake and fuel lines, emergency brake cables, fuel tanks, wiring harnesses, etc.

20. Inflate air springs to 40 psi and check for leaks. A soapy water solution can be used to find slow leaks.

21. 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.

22. 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.