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INSTALLATION INSTRUCTIONS

6107 Air Spring Kit
1999+ Ford F-250/350 Single Wheel 2WD

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.

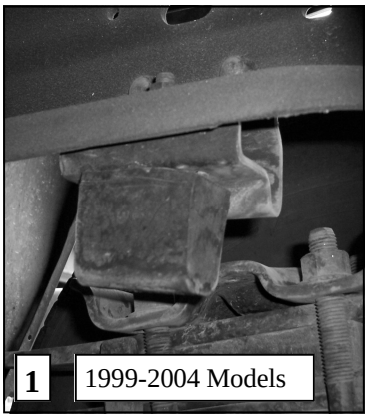
ENSURE THAT THE INSTALLATION OF COMPONENTS WILL NOT CRUSH OR DAMAGE FUEL AND BRAKE LINES OR ELECTRICAL HARNESSES.

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 .

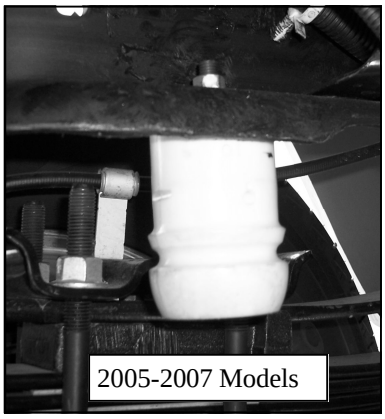
DO NOT ATTEMPT ANY MODIFICATIONS TO THE VEHICLE OTHER THAN THOSE OUTLINED IN THIS INSTRUCTION SHEET. IF ANY INTERFERENCE WITH THE GAS TANK, FUEL LINES, BRAKE LINES, EXHAUST PIPE, ETC. EXISTS, STOP YOUR INSTALLATION AND CALL HELLWIG PRODUCTS FOR TECHNICAL HELP.

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 1999-2004 Models



2005-2007 Models

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

2. Install fitting in port of air spring. Torque fitting to approximately 20 ft-lb.

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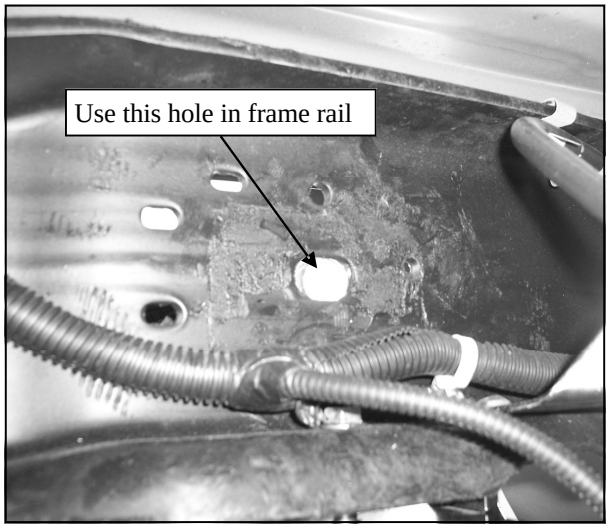
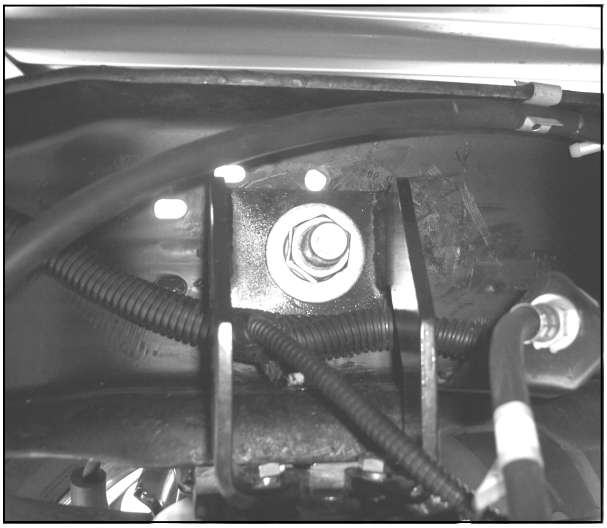
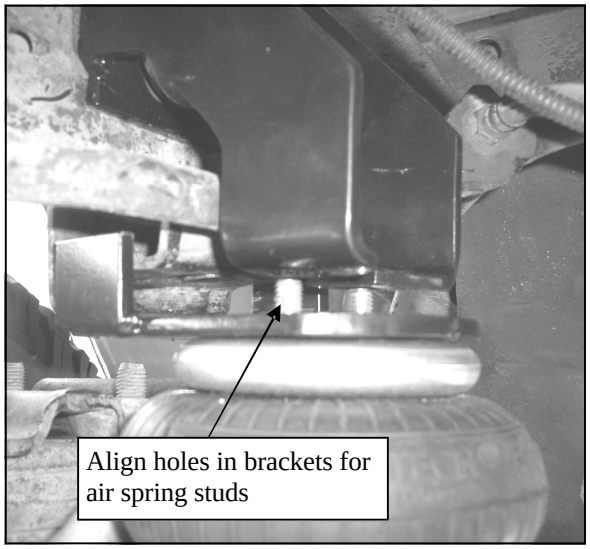
3. Install lower frame bracket using long flat head bolt and flanged lock nut. Leave loose for adjustment later.







4. Locate Large hole in frame rail. Attach upper frame bracket using supplied 3/4" bolt, flat washers, lock washer, and nut with washers on both sides of rail and bolt head on outside of rail. Leave loose for adjustment later. Align slotted holes with holes in lower bracket so that air spring studs can be inserted through holes in both upper and lower frame brackets. When brackets are properly aligned, tighten lower bracket flat head bolt to 20-25 ft-lb.

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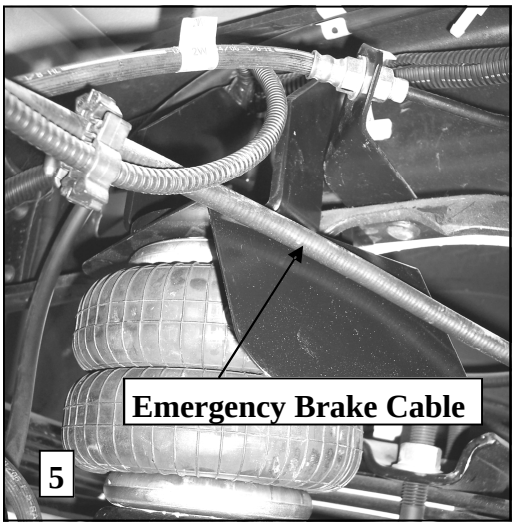
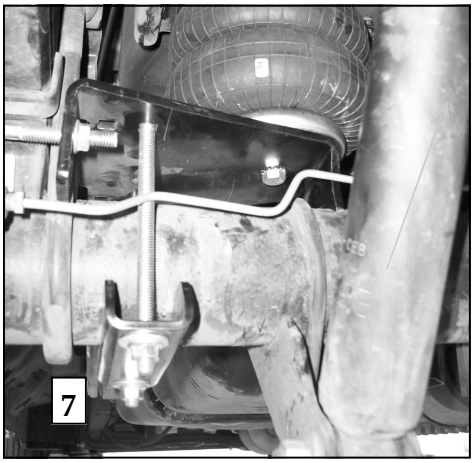


5. Place heat shield on top of air spring and insert air spring through holes in both frame brackets. Attach using flange head nuts. Driver side shown uses heat shield to prevent emergency brake cable from rubbing on air spring. Align passenger side heat shield to prevent heat from exhaust pipe from damaging air spring. Tighten nuts to 20 ft-lb. After tightening air spring nuts, tighten 3/4" bolt to 100-125 ft-lb. If bolt is used by fifth wheel hitch mounting brackets, tighten bolt to hitch manufacturer's specifications.

6. Insert axle bracket between air spring and axle The short bracket is used on driver's side and the long bracket is used on the passenger side. Attach air spring to bracket using 3/8" x 1" bolt and tighten to 20 ft-lb. Insert legs of U-bolt through holes in bracket. It is preferred to use the upper holes, but if U-bolt cannot be installed in upper holes, use the lower holes as shown. Attach U-bolt using 3/8" flanged lock nuts and tighten until bracket flexes slightly.



7. Insert carriage bolts into axle bracket as shown and attach saddle using flat washers and flanged lock nuts as shown. Reposition brake line as required to prevent brake line from contacting carriage bolt. Tighten to 25 ft-lb.

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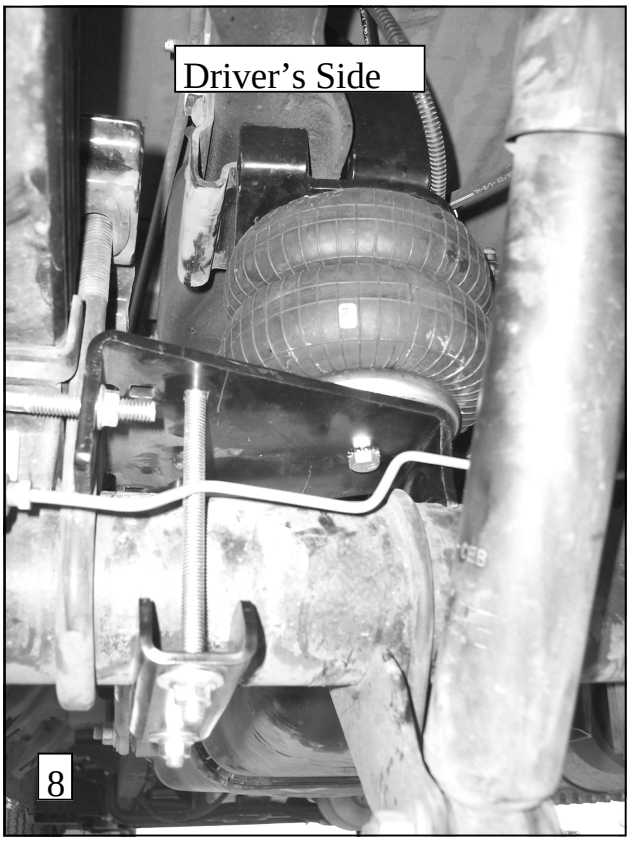

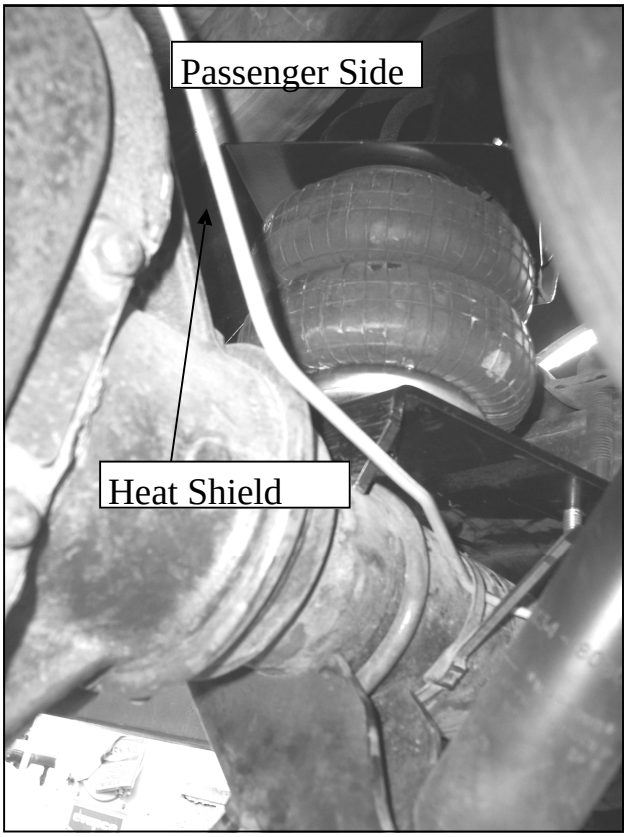

8. Check your installation to ensure that all fasteners are tight and that the assembly and all fasteners clear brake and fuel lines, emergency brake cables, fuel tanks, wiring harnesses, etc. Make sure that heat shields are positioned for maximum protection of air spring.

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9. Complete passenger and driver's side installation of air spring assembly.

10. 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.

11. 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.

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

13. 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.

14. 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 IMORTANT NOTE CARDS AND THE WARRANTY FORM.