



Protecting Your Adventure Lifestyle

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## **90520 Jeep Liberty Hoodlift® Kit**

### **INSTALLATION INSTRUCTIONS**

#### **Fits '08-'12 Jeep Liberty**

**NOTE:** Congratulations on your purchase of a genuine HoodLift® made by the company who invented the Jeep aftermarket HoodLift® in the mid 1990's. It is made from the finest components available and should give you years of trouble-free service. The installation should take less than an hour and some drilling is required. Please read through the entire instructions before getting started.

<b>Tools needed</b>	<b>Supplied Parts</b>
Hand Drill. Preferably cordless.	(2) Gas Springs (they look like shocks)
5/16" nut driver for the hand drill.	(2) Upper Ball Stud Brackets
5/16" socket and ratchet handle.	(2) Lower Ball Stud Brackets
Center Punch	(8) Sheet Metal Screws
Marker Pen or Scribe	(8) Star Lock Washers
Masking Tape	(1) 7/64 <sup>th</sup> Drill Bit
Scissors	

### **INSTALLATION**

1. Lift up the hood and place it on the factory prop rod. Look under the hood and locate two round black plastic fasteners on either side of the hood that hold the insulation. You only need to remove the two along the left and right sides. Utilizing a flat edged tool, such as a trim remover or thin paint scraper, carefully remove these 4 fasteners and set them aside as you will be reinstalling them later.
2. Starting on the passenger side, hold the insulation away from the underside of the hood so that you can locate the placement for the hood mounted ball stud brackets. There should be two long 'slots' inboard of the hoods' edge about midway up. The mounting location for the hood brackets is centered between these two long slots.
3. Place the hood bracket in the location shown to the right and mark the hole locations with a marker or scribe. Set bracket aside.
4. Wrap some masking tape around your drill bit as shown in the photo below so it will only go approx. 1/4" through the sheet metal. This is to prevent you from drilling too far and denting the hood from the inside. Make certain the tape is wrapped tight and that it goes all the way to the drill chuck so the tape doesn't slip.



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5. Take a center punch and tap an indent into the center of each mark you've made for the holes. This will prevent the drill bit from wandering around the surface when starting to drill the hole. Drill the holes with the tape-wrapped drill for the two sheet metal screws. Set the bracket back onto the hoods' underside with the ball studs facing inward toward the engine.
  6. Put one of the star lock washers on a sheet metal screw and drive it into the hole you just drilled using your drill and a 5/16" nut driver. You can also just use a 5/16" socket and ratchet, however it is quicker and easier with the hand drill. If you use a corded electric drill, be extremely careful and set it on a very slow speed. Only tighten to 'almost snug' or you risk stripping the hole or breaking the screw. It is recommended to just use a cordless drill with the clutch set on a light setting. Finish tightening the screw with a socket and ratchet only to hand-tight. Proceed carefully and don't strip the threads. Install the other lock washer and screw into the remaining hole finishing the bracket installation.
  7. Lay the hood insulation back against the bracket you just installed and visually mark around the perimeter of the bracket with the marker pen. Take the scissors and trim the insulation back just enough to expose the part of the bracket with the ball stud attached. Reinstall the 2 round black plastic fasteners that hold the insulation back against the hoods' underside.
  8. Repeat steps 2 thru 7 for the driver side of the vehicle.
  9. For the lower brackets, locate the four spot welds on the flat surface just in front of the hood hinge. Place the bracket, stud side in, with the forward hole over the 2<sup>nd</sup> spot weld from the back (See image below).



10. Mark the hole locations referencing this one spot weld and use the center punch to tap the starting points. Drill the holes with the tape-wrapped drill for the two sheet metal screws. Set the bracket back onto the surface with the ball studs facing inward toward the engine. **IMPORTANT!** You are only drilling through the center of that one spot weld, not all four of them.
11. Put one of the star lock washers on a sheet metal screw and drive it into the hole you just drilled using your drill and a 5/16" nut driver. Again, you can just use the 5/16" socket and ratchet, however it is quicker and easier with the hand drill. Tighten to 'almost snug' or you risk stripping the hole or breaking the screw. Finish tightening the screw with a socket and ratchet only to hand-tight. Proceed carefully and don't strip the threads. Install the other lock washer and screw into the remaining hole finishing the bracket installation.
12. Repeat steps 9 thru 11 for the driver side bracket.
13. Take the Gas Springs and with the cylinder side up, snap them onto the Upper Ball Stud Brackets allowing them to dangle. Next, fold the factory prop rod back into its parked location and hold up the hood with your hand. Now snap the gas springs onto the lower Ball Stud Brackets, taking care to not let go of the hood until both Gas Springs are snapped into place. If you snap the Gas Springs on before folding the factory prop rod, you may have a hard time disengaging it without damaging the insulation. Your hood will now remain up, but before testing the opening and closing function of the install, check for tools or anything that may have been left in the engine compartment.
14. Once you've determined the engine compartment is free and clear, go ahead and lower the hood slowly making sure there is no binding or clearance issues. If everything checks out ok, lift up on the hood allowing the Gas Springs to

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take over about 1/3<sup>rd</sup> of the way up. Close and open the hood a few times to check the Gas Springs' functionality. They should raise the hood from a neutral point about 12" opened and come to a smooth, dampened stop. If it does not have that dampened stop, you may have installed your gas springs upside down. The large cylinder portion of the Gas Spring should be up. Upside down Gas Springs also have a shorter life than properly installed ones.

15. If you ever need to remove a Gas Spring from its' ball stud bracket, slip a small screwdriver under the small semi-circular clip near the end and lift it up to release it from the ball stud it is capturing. To replace a Gas Spring, just snap it back onto the ball stud.
16. Your installation is now complete.



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If you need further assistance installing your product, please contact us by email at [techsupport@warriorproducts.com](mailto:techsupport@warriorproducts.com) or call us at (888) 220-6861.

**THANK YOU FOR PURCHASING HOODLIFT BY WARRIOR PRODUCTS**

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