



Protecting Your Adventure Lifestyle

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## **HL21318 Ford Ranger HoodLift® Kit**

### **INSTALLATION INSTRUCTIONS**

#### **Fits '93-'11 Ford Ranger**

**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.

#### **Tools needed**

Hand Drill. Preferably cordless.  
5/16" nut driver for the hand drill.  
5/16" socket and ratchet handle.  
Center Punch  
Marker Pen or Scribe  
Tape Measure

#### **Supplied Parts**

(2) Gas Springs  
(2) 60° Upper Ball Stud Brackets (outer)  
(2) 90° Lower Ball Stud Brackets (inner)  
(8) Sheet Metal Screws  
(6) Star Lock Washers  
(1) 7/64<sup>th</sup> Drill Bit

#### **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 affixes the insulation. You only need to remove the two at the corners of the insulation. Utilizing a flat edged tool, such as a trim remover or thin paint scraper, carefully remove these 2 fasteners and set them aside as you will be reinstalling them later.
2. Starting on the driver side, locate the rear most fender bolt. You will be using the 90° brackets on the fender side. The brackets have 3/16" screw holes in them. With the ball stud oriented so that it is pointing into the engine compartment, you will need to drill the rear mounting hole out to 1/4" (drill bit not included). This is so you can utilize the existing fender bolt in mounting the brackets.



3. Once you have the fender bracket bolted on through the rear hole, use the 7/64" drill bit (included) and drill through the forward hole through the sheet metal. Be certain that there is nothing underneath the fender lip that could be damaged by drilling too deep. One precaution we recommend is to wrap some masking tape around your drill bit so it will only go approx. 1/4" through the sheet metal. This is to prevent you from drilling too far and damaging anything or denting the hood from the inside when mounting the hood side brackets. Make certain the tape is wrapped tight and that it goes all the way to the drill chuck so the tape doesn't slip.

**QUALITY**



**INTEGRITY**



**INNOVATION**



**SERVICE**



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4. After you've drilled the 7/64" hole, use a #10 self-tapping screw with internal lock washer to finish the fender side bracket mounting. Do not over tighten the #10 self-tapping screws as you risk breaking the heads off. There are 2 extra screws in the kit just in case you do.



5. Now, back to the hood. Take your tape measure and measure from the corner of the hood by the base of the windshield up the side of the hood 20-3/4" inches. Place a piece of painters tape along the edge of the hood in this area and make a mark with a pen. Temporarily hold one of the 60° upper brackets' bottom edge so that it aligns with the mark then take a center punch and tap an indent into the center of each hole. 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 outward.

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. Set the hood insulation back against the bracket you just installed and reinstall the round black plastic fastener that holds the insulation back against the hoods' underside.
8. Repeat steps 2 thru 7 for the passenger side of the vehicle.



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9. Once the upper and lower brackets have been installed on both sides of the vehicle, take the gas springs with the cylinder side up and snap them onto the upper ball stud brackets allowing them to hang. Next, fold the factory prop rod back into its parked location while continuing to 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 firmly snapped into place. If you connect the gas springs to both upper and lower brackets before folding the factory prop rod, you may have some difficulty disengaging it. 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.
  10. Once you've determined the engine compartment is free and clear, go ahead and lower the hood slowly making sure there are no binding or clearance issues. If everything checks out ok, lift up on the hood allowing the gas springs to 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 at the top. 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 oriented up. Not only will upside down gas springs not have that dampened feature, but they also will have a shorter life than properly installed ones.
  11. 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 pry it up to release it from the ball stud it is capturing. To replace a gas spring, simply snap it back onto the ball stud.
  12. Your installation is now complete.



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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