



Protecting Your Adventure Lifestyle

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## 71305 89-94 Toyota PU – 4Runner Hoodlift® Kit

### INSTALLATION INSTRUCTIONS

**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 is a completely bolt-on application. Please read through the entire instructions before getting started.

#### Tools needed

Ratchet wrench  
10mm socket  
12mm socket  
 $\frac{7}{16}$ " Box end wrench  
 $\frac{1}{2}$ " Box end wrench  
Marker pen  
Masking tape

#### Supplied Parts

(2) Gas springs  
(4) 10mm threaded ball studs  
(4)  $\frac{5}{16}$ " Nylock nuts  
(2) Lower ball stud brackets  
(2) Upper ball stud brackets

#### INSTALLATION

1. Lift up the hood and place it on the factory prop rod. Locate the HoodLift ball stud brackets and install the 10mm ball studs in the orientation shown in **Fig. 1**. Use the  $\frac{7}{16}$ " and  $\frac{1}{2}$ " box end wrenches.
2. First we'll mount the lower ball stud brackets along the inner edge of the fenders. On either side of the engine compartment, there are a few fender mount bolts. We'll be utilizing the fender mount bolt about midway back from the front of the vehicle. This bolt also fastens the hood bumpers in place. Remove the two bolts with the 10mm socket wrench and fit the lower ball stud brackets into place in the orientation shown in **Fig. 2**.
3. Next, we'll install the hood side brackets. The hood hinges have two 12mm bolts per side that attach to the hood. These are the bolts you will be using to mount the upper ball stud brackets. Take a short length of masking tape and apply it along side of the hinge and the hood where the two meet. Using a box knife or something similar, slice the tape lengthwise so that now half the tape is on the hinge and half is on the hood. Make a hash mark across the two pieces of tape with a marker pen. **Fig. 3**. This is so when you remove the hood bolts to attach the upper ball stud brackets you can align the hood back to its proper location.



Fig. 1



Fig. 2

\*Passenger side shown



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4. **Work on only one side at a time.** Have the upper ball stud brackets within reach before starting this next step. Standing on the driver side of the vehicle, hold the weight of the hood in your right hand while removing the hinge bolts. Next, set the upper ball stud brackets with the ball stud pointing to the side of the vehicle onto the hinges then reinstall the bolts through the bracket and hinge into the hood. **Do not attempt to 'sandwich' the bracket between the hinge and hood.** Make certain the marks you made on the tape line up before tightening the bolts. Repeat for the passenger side.



5. Now take the gas springs and with the **cylinder side up**, snap them onto just the hinge mounted ball studs. Next, fold the factory prop rod back into its parked location while continuing to hold up the hood with your hand. Snap the rod end of the gas springs onto the lower ball stud brackets, taking care to not let go of the hood until both gas springs are fully installed into place. If you completely install the gas springs 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.

6. 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 16" opened and come to a smooth, dampened stop at the top of the stroke. If it does not have that dampened stop, you may have inadvertently installed your gas springs upside down. The large cylinder portion of the gas spring should be oriented up. Upside down gas springs will also have a shorter life than properly installed ones.



7. If you ever need to remove a gas spring from its ball stud bracket, simply slip a small flat-bladed screwdriver under the small semi-circular clip near the end and pry it up to release the end from the ball stud it is capturing.

8. 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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