



# HYLINE

**OFFROAD**

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## **Proudly Made In USA**

### Installation Instructions:

JK Single Piece Hood Louver

Part Number(s):

400.500.120 / 400.500.130

400.500.140 / 400.500.150

### Vehicle Fitment:

2007-Present Jeep Wrangler

2-Door & 4-Door

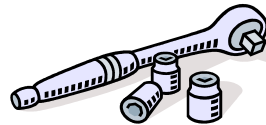
**IMPORTANT: BEFORE INSTALLING, PLEASE READ THIS INSTALLATION PACKAGE COMPLETELY**

### Parts List

**Qty:**

- 1 Single Piece Hood Louver Panel
- 1 Steel Template
- 38 Nylon Locknuts
- 2 10-32 Pan Head Screws

### Tools Needed



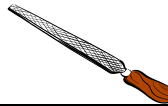
Ratchet & Sockets  
9mm, 10mm T-50 Torx  
3/8" Nut Driver



Drill  
1/16", 3/16" & 1/4" Bits  
1" Hole Saw



Cut Off Wheel  
Painters/Masking Tape  
Permanent Marker



File OR Sandpaper



Safety Glasses



Clear Rust Inhibitor Spray

**Congratulations on your purchase of the Hyline Offroad Hood Louver. All of our products are completely manufactured in our facility located in Perkasio, PA. They are designed and engineered by Offroad enthusiasts just like you to be rock solid at an affordable price. Hyline Offroad would like to thank you for your recent purchase and look forward to serving you in the future.**

*Hyline Offroad Staff*

# PLEASE READ INSTRUCTIONS BEFORE BEGINNING INSTALLATION

## **\*\*\*BEFORE INSTALLING\*\*\***

**If you ordered the Hood Louver Panel raw you should paint, anodize, powder coat, etc. now before installation onto vehicle. PEEL OFF THE VINYL PROTECTANT COVERING BEFORE PAINTING OR FINISHING (if Necessary). If Hood Louver Panel was ordered black powder coated your now ready to continue to step 1.**

## **Hood Louver Panel Installation**

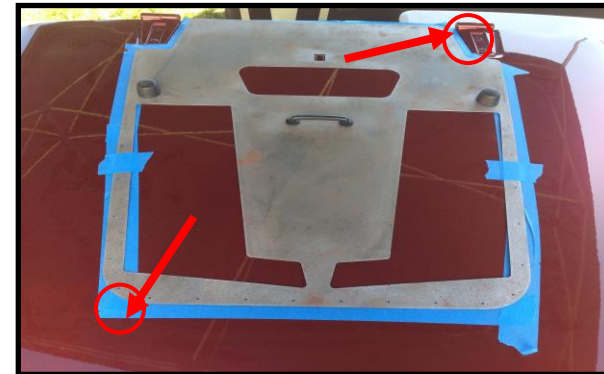
**Step 1 - As a safety precaution - Remove the hood from your vehicle before drilling or cutting.**

First, remove the engine grounding strap using 10mm Socket, hood light, and windshield washer hose(s) from hood. Then unbolt the 4 Torx bolts from the hood hinges using the T-50 Torx. Hood should now be free to remove from vehicle.

**Step 2 - Once the hood is removed, place the hood on a flat, solid work area. Then remove u-shape footmans loop bracket using the 9mm Socket. Remove the black plastic/rubber windshield bumpers by unclipping from the underside of the hood.**

**Step 3 - Place painters/masking tape either on the hood or backside of the steel template to prevent any scratching.**

**Step 4 - Place steel template in the center of hood as shown in (Figure 1). Reinstall the footmans loop and windshield bumpers. This will locate the template in the appropriate location. Verify alignment of template around windshield squirter.**



**Figure 1**

Step 5 - Once located properly temporarily tape in a couple places to hold template while drilling first two holes. Using 3/16" Bit, drill one hole through the template and hood at one corner, as shown in (Figure 2). Install and tighten the supplied 10-32 screw and nut. Then drill a second hole in the opposite corner of template and install and tighten supplied 10-32 screw and nut. This will ensure template stays in place while drilling and cutting.

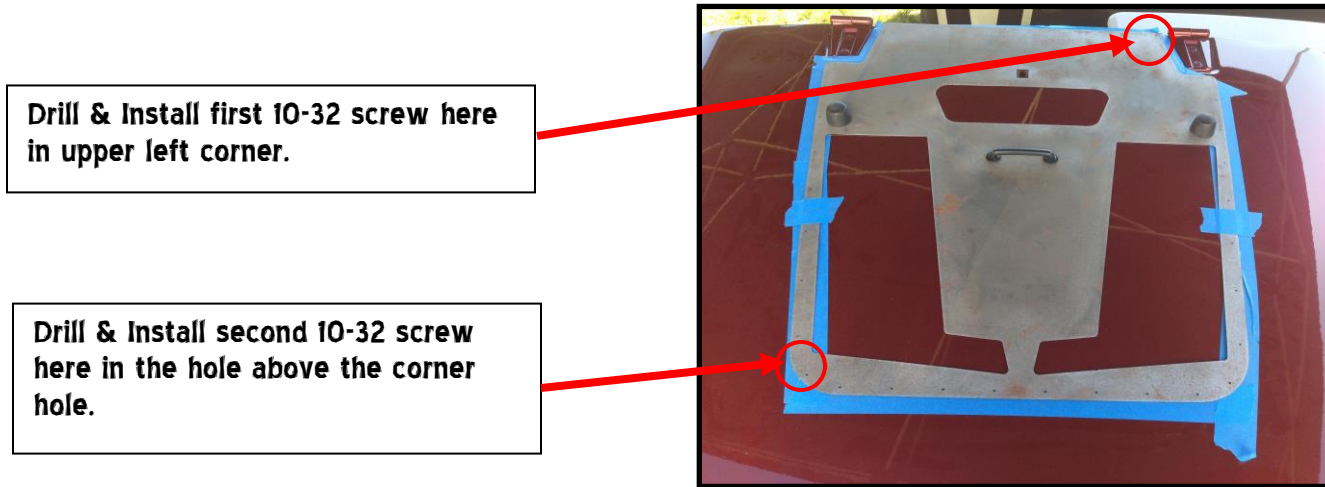


Figure 2

**\*\*Important\*\* DO NOT MOVE TEMPLATE UNTIL STEP #7**

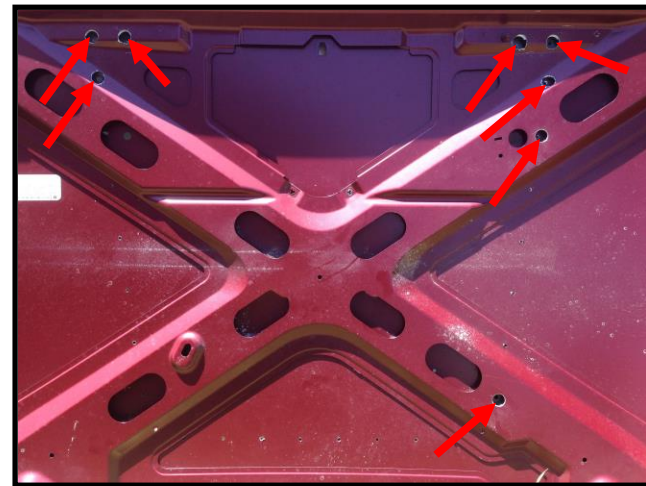
**NOTE: USE 1/16" DRILL BIT AS PILOT HOLE FOR 1/4" DRILL BIT TO ENSURE BETTER ACCURACY!**

Step 6 - Drill through all the holes in the template using the 1/16" bit. You will have to drill through the hood reinforcement bracing in some spots so be sure to drill all the way through both the hood and bracing.

Step 7 - Using a marker or scribe trace the cutouts onto the hood. Once you remove the template you'll be able to use these lines to cutout the air vent panels.

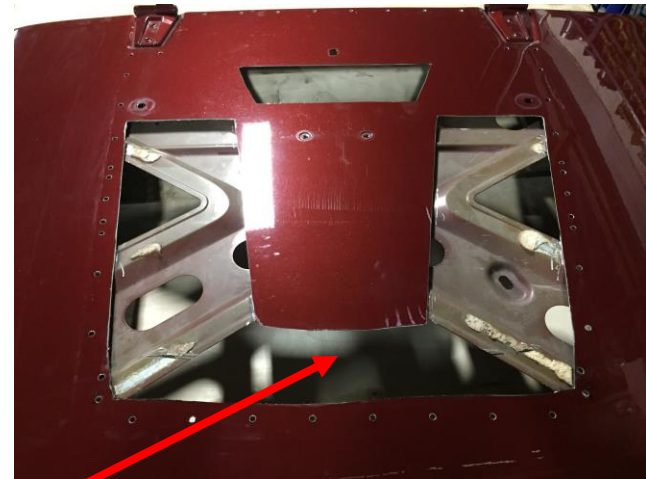
**Step 8 - After all holes are drilled using 1/16" pilot bit and cutouts are traced, you may now remove the template. Now use the 1/4" Bit to drill out the pilot holes 38 Holes Total.**

**\*\*NOTE\*\* You will need to use the 1" hole saw to expand some holes drilled in the hood reinforcement bracing from underneath the hood, 8 times. See arrows in Figure 3.**



**Figure 3**

**Step 9 - Use 1" Hole saw again and drill each corner of the 3 cutouts (14 times total). The purpose of using the hole saw in each air vent cutout is so you have a nice, clean corner radius you can cut up to. You can then use the cutoff wheel to cut each air vent panel out. When cutting be careful to only cut through the hood sheet metal, NOT the hood reinforcement bracing. It's okay if you cut into the bracing slightly, but not completely through all.**



**Figure 3**

**Note: The center support in the cutting template is there just for strength. This area can be cut out (as shown) if desired. It's okay to leave it in tact as well.**

**Step 10 - Use a file or sandpaper to deburr any sharp edges from panel cutouts and/or drilled holes. Remove masking tape also if necessary.**


**\*\*MUST READ BEFORE MOVING TO STEP 11\*\***

**Lubricate Nylock Nut Threads With WD-40 or Similar Lubricant Prior To Installing. DO NOT USE A PENETRANT & DO NOT OVERTIGHTEN NUTS. Penetrant products are corrosive which will melt nylon locknut materials and overtightening will cause distortion on Hood & Louver Panel.**

Step 11 - Carefully install the Hood Louver Panel onto hood. Do not damage any threads on studs when installing the louver panel. If any holes need to be opened for proper fitment, drill them open slightly. Using the 3/8" Nut Driver fasten nylon locknuts to threaded studs. Tighten nuts just enough until they touch the steel hood. **\*\* DO NOT OVERTIGHTEN LOCKNUTS\*\***

Step 12 - Re-install hood onto vehicle and re-mount footmans loop and windshield bumpers.

Send your OFFROAD pictures to [pics@HylineOffroad.com](mailto:pics@HylineOffroad.com) . If we choose any one of your pictures to be used on our website, We send you a FREE Hyline Offroad T-Shirt.

 **Attention** Installation instructions provided must be read and followed exactly when installing product. Failure to do so could potentially result in injury or death of any occupants in the vehicle. WEAR SEAT BELTS AT ALL TIMES WHEN DRIVING!

Though our products are rugged, they are primarily designed and built to enhance the appearance of the vehicle and will not protect from death or injury in the event of an accident. Adhere to all vehicle manufacturers specifications.



**\*\* IMPORTANT: PLEASE READ BEFORE INSTALLING**

**HYLINE OFFROAD, LLC WARRANTY**

HYLINE OFFROAD, LLC. LIMITED WARRANTY Hyline Offroad, LLC, warrants all products against manufacturer's defects in workmanship and material for a period of one (1) year from the date of sale. This warranty applies to manufacturer's defects only and does not cover damage or failure caused by natural causes or third parties.

If product failure does occur within the time period specified according to the provisions of this Warranty, then Hyline Offroad, LLC agrees to provide the replacement product free of charge, F.O.B. factory. This Warranty is valid only so long as the product is installed on the original vehicle. Removal of the product from this vehicle automatically invalidates this Warranty.

As described above, this warranty is expressly limited to the material cost of the product and does not extend to labor costs. Hyline Offroad, LLC will not be responsible for any costs incurred in the removal or reinstallation of the product furnished by manufacturer under this warranty.

CLAIMS PROCEDURE Submit Warranty claim in writing, by certified mail to Hyline Offroad, LLC, 1507 C West Park Avenue, Perkasio, PA 18944. The Claim Notice must state the date of this Notice, the nature of the defect, date of purchase and if already installed, the date of installation, if installed the name of installer and include Proof of Purchase.

This Warranty shall be for the benefit of the original owner only, and is non-transferable. This Warranty is valid in those states where permitted. Some states do not allow limitations on the length of an implied warranty, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. You should check your local state laws to determine this. This Warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

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2. I am fully cognizant of any risks and/or hazards connected with the use of a this product and I elect to willingly engage in such use of this product knowing that the use may be hazardous to me and my property. I willingly assume full responsibility for any risks of loss, property damage or personal injury, including death, that may be sustained by me (or anyone else), or any loss or damage to property owned by me (or anyone else), as a result of using this product, whether caused by the negligence of releasees or otherwise.
3. I further agree to indemnify and hold harmless the releases from any loss, liability, damage or costs, including court cost and attorney fees, that they may incur due to my use of a this product, whether caused by negligence of releasees or otherwise.
4. It is my express intent that this Release and Hold Harmless Agreement shall bind the members of my family and spouse, if I am alive, and my heir's assigns and personal representative, if I am deceased, and shall be deemed as a release, waiver, discharge, and covenant not to sue the above named releasees. I further agree that this Waiver of Liability and Hold Harmless Agreement shall be construed in accordance with the laws of the State of Pennsylvania.

*By accepting and installing this product, I acknowledge and represent that I have read the above Warranty and Hold Harmless Agreement, understand it and accept it willingly as my own free act and deed; no oral presentations, statements, or inducements, apart from the foregoing written agreement, have been made; I am at least eighteen (18) years of age and fully competent; and I execute this Release for full, adequate and complete consideration fully intending to be bound by same.*

*If you do not agree with the preceding Hold Harmless Agreement, you may return the product and receive a full refund. Please, contact a Hyline Offroad sales representative and they will issue a call tag for the product in question. Once the product has been received by Hyline Offroad, inspected and accepted for return, a full refund will be issued.*