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Cut out template  
along outer edge  
(Step 2)

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along outer edge  
(Step 2)

Existing  
Windshield  
Bumper Hole  
(Step 3)

Existing  
Windshield  
Bumper Hole  
(Step 3)

Drill/Hole Saw Locations  
(Steps 6)

#### Parts List

- (1) JK Hood Louver Panel
- (1) Cut Template with Instructions (this sheet)
- (24) 10-32 X 3/4 SS button head cap screw
- (24) 10-32 nylon insert lock nut
- (24) #10 flat washer

#### Tools Needed

- Scissors & sharp hobby knife or razor blade
- Masking tape & fine-tip felt marker
- Automatic center-punch or punch and hammer
- Drill motor with 7/32" drill bit & 1" hole saw
- High speed cut-off wheel (electric or pneumatic)
- Anti-sieze compound
- 1/8" hex key (flat-end, NOT ball-end)
- 3/8" wrench or socket & ratchet
- Files, sandpaper or burr-knife
- Touch-up paint

#### Installation Procedure

1. Remove hood from vehicle and place on table or sawhorses. Remove the windshield washer nozzle, windshield bumpers and footman loop.
2. Use scissors to cut around the outside edge of the template, in the shape of the actual hood louver piece.
3. Use a sharp hobby knife to cut out the "Existing Windshield Bumper Hole" circles from this template. Try to cut down the centers of the heavy lines that depict the two circles, and remove the paper from inside the circle. Position template on hood and carefully align it using the Windshield Bumper Hole locations depicted on the template (a standard Sharpie® marker makes a good alignment tool—insert one into each hole). Make sure the template is satisfactorily centered and aligned between the hood hinges, edges of the hood, etc. Tape the template securely into place.
4. Center-punch each of the hole locations denoted with cross-hairs. Use of an automatic center punch is recommended. If using a punch and hammer, be careful not to strike the punch too hard, as you risk deforming the surrounding sheetmetal.
5. Remove template.
6. Use 1" hole saw to drill holes at each of the marked locations. Be very careful when drilling, as the sheetmetal is very thin and may want to "catch" on the hole saw.
7. Use a marker to draw a cut line around each of the hole cut-outs as shown in the template, by linking the outside edges of the 1" holes.
8. Use a cut-off wheel to cut along the cut lines made in the previous step.

9. Sand/de-burr rough cut edges and coat with touch-up paint to prevent rust.
10. Position the hood louver on to the hood, in the same position the template was in. Make sure the holes in the louver for the windshield bumpers, windshield loop, and windshield squirter nozzle are aligned with the corresponding holes in the hood. Temporarily reinstall the windshield bumpers and footman loop.
11. Using the hood louver itself as the template, drill a 7/32" hole at each of the four corners and install a supplied button head cap screw, nut and washer at each of these locations. Use anti-sieze compound on the threads of the screws. Tighten them until snug but DO NOT OVER-TIGHTEN, as the threads of the stainless steel screws may gall.
12. Drill the remaining 7/32" holes and install a screw, washer and nut in each location as you go, leaving them finger-tight.
13. Once all holes have been drilled, remove all hardware and the hood louver, and clear any drill chips and burrs from around the holes. Coat the cut edges of the holes with touch-up paint to prevent rust.
14. Re-install the Hood Louver, leaving hardware finger-tight until all hardware is in place, then tighten the hardware in a crossing pattern, as if tightening the lug nuts on a wheel. Use anti-sieze compound on the threads of each screw. Be careful not to over-tighten any of the screws/nuts, as over-tightening may deform the sheetmetal of the hood and/or louver.
15. Re-install the windshield washer nozzle, windshield bumpers and footman loop. Reinstall hood onto Jeep.