



F-150 Hood Vent

Application: 2015+ F-150

CARELESS INSTALLATION AND OPERATION CAN RESULT IN SERIOUS INJURY OR DAMAGE TO EQUIPMENT.

SAFETY

YOUR SAFETY AND THE SAFETY OF OTHERS IS EXTREMELY IMPORTANT

- These instructions may alert you to potential injury hazards.
- Be mindful of your surroundings and any potential hazards. Remove or take precautions to protect against them.
- You must use your own good judgment.
- Read and understand all safety precautions and instructions before installing this product.

INJURY HAZARD

- Remove jewelry and wear eye protection.
- Use appropriate care with lifting components.
- Always make sure parts will stay secure during installation and other operations.
- Always wear safety glasses during installation and other operations.
- Use extreme caution during trimming operations.
- Securely tighten all fasteners as written in instructions.
- Route all electrical wiring to avoid moving or hot components, and rough or sharp edges.
- Be sure to properly insulate and protect all electrical components.
- Inspect and maintain all mounts and hardware on a regular basis.



Parts List

- (1) SCA F-150 Hood Vent Body
- (1) SCA F-150 Hood Vent Cover
- (2) SCA F-150 Hood Vent Mesh Insert
- (1) SCA F-150 Hood Inner Cover
- (8) Perforated Studs
- (8) Nylon Locking Nuts
- (8) Stainless Fender Washers
- (4) Tree-style Panel Fasteners
- (1) Installation Template
- (2) 25ml Glue Cartridge

Tools Required

- Plastic Pry Tool
- Drill
- 1/4" Drill Bit
- 7/16" Drill Bit
- 1" Hole Saw
- 13mm Deep Well Socket
- 9mm Deep Well Socket
- Non residue tape (painter's tape)
- Body Saw/Cut off wheel
- Isopropyl Alcohol
- Razor knife/Scissors

NOTE: SAVE ALL OEM PARTS AND FASTENERS UNTIL INSTALLATION IS COMPLETE
Read and comprehend all steps of this section before beginning assembly. The glue used sets up quickly. Glue gets hot when curing, excess glue can .

I. Preparation:

A. Paint Preparation

1. Prior to painting mask off areas indicated with painter's tape. (Figure 1) **NOTE: Masked off areas should not be visible when Hood Vent Cover is placed over Hood Vent Body.**

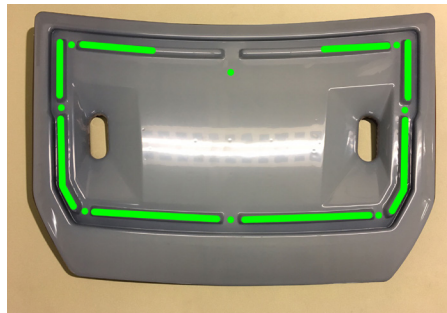


Figure 1

Installation Instructions

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B. Hood Vent Assembly

Note: Parts are intended to be painted prior to assembly.

2. Scuff with scouring pad or light sand paper the small landing next to part trim edge indicated to remove any over spray. Wipe areas with clean cloth and isopropyl alcohol to properly prepare surfaces (if 3/8" 3M tape is already installed skip to step 4). (Figure 2a, 2b)

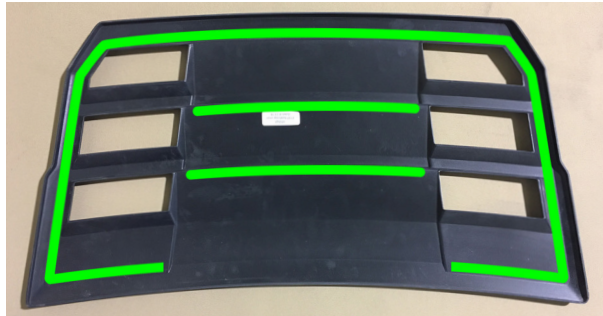


Figure 2a



Figure 2b

3. Install 3M tape along landing ring of hood vent. 30lbs of pressure per inch is needed to properly activate adhesive (if 3/8" 3M tape is already installed skip this step). This should be installed in two strips as shown. (Figure 2b) **NOTE: DO NOT REMOVE RED PROTECTIVE FILM AT THIS TIME.**

4. Remove painter's tape from areas masked off for paint prep. (Figure 3)

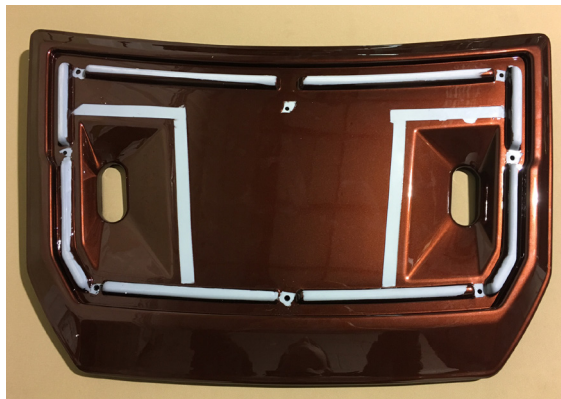


Figure 3

5. Drill dimpled hole locations with a 1/4" drill bit. (Figure 4)

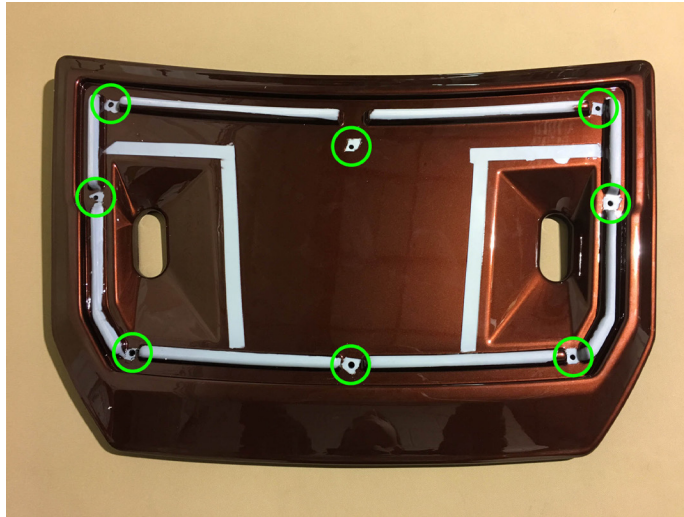


Figure 4

6. Tape off threaded area of included studs to prevent glue from covering studs. Drop perforated studs through drilled holes as shown, and glue in place. Be sure glue is between the stud base and the plastic. (Figure 5)

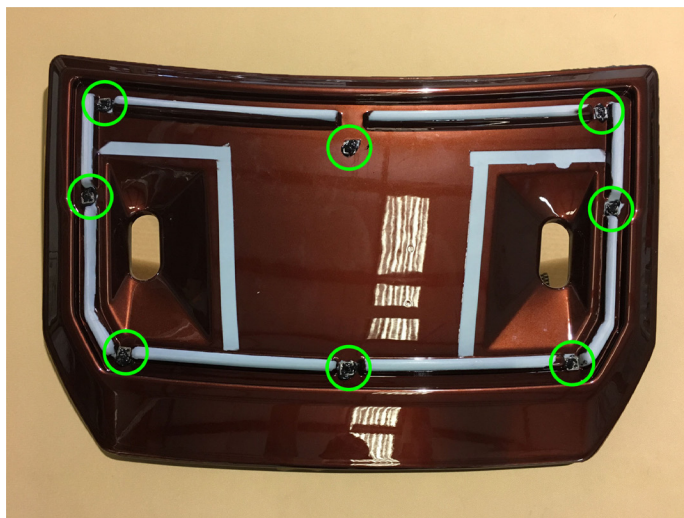


Figure 5

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7. Run a bead of glue as shown (Figure 6a). Drop included mesh screens into place as shown. Be sure the bead of glue presses through the mesh. You may need to run a second small bead along the first bead line and over top of the mesh to make sure it is fully secure. (Figure 6b)



Figure 6a



Figure 6b

8. Run a bead of glue in areas shown (Figure 7a, 7b). Install vent cover and tape in place as shown, be sure to tape the cover tightly in place to make sure all areas are glued correctly. It is best to start the taping process with the two rear corners to ensure gaps are even. (Figure 7c)



Figure 7a



Figure 7b



Figure 7c

9. Once glue is fully set (about 15 minutes or until parts are no longer warm from glue reaction), un-tape the hood scoop and glue studs.

B. Hood

1. Prepare a workspace large enough and stable enough to accommodate the hood of the vehicle. Be sure this surface is free of dust or debris that could harm the painted surfaces.
2. Open hood. Using a 13 mm socket wrench remove hood from vehicle by removing 4 hood nuts (2 on each side). Set hood upside down on workspace.
3. Remove hood liner by using plastic pry tool to pull out plastic push studs. (Figure 8)

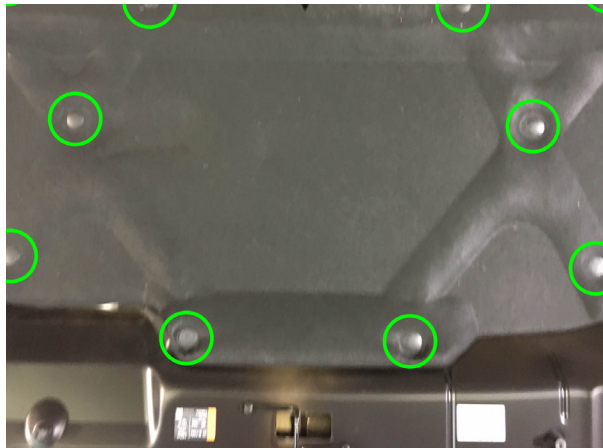


Figure 8

4. Cut out paper marking template. Flip hood right side up, and align template on outer hood surface. Locate and mark drill locations and cut out locations. (Figure 9)

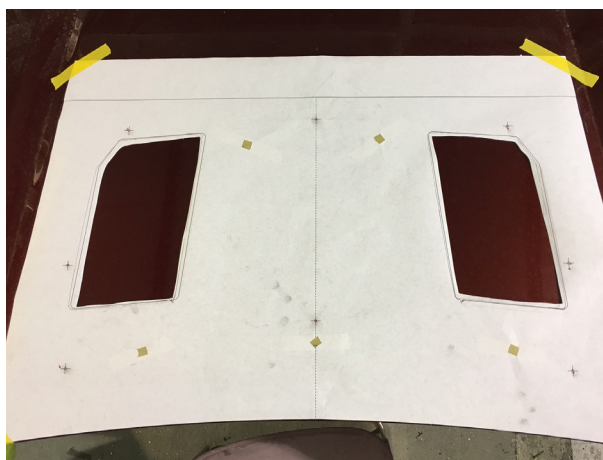


Figure 9

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5. Drill the five marked locations denoting 1/4" holes using a .25" drill bit. Drill two remaining holes with a 7/16" drill bit.

6. Drill the corners of the cut outs using a 7/16" drill bit staying inside the marked lines. Cut out the marked areas using a body saw or cut off wheel. Depending on the tool being used, you may need to flip hood over to complete cutting operation.

7. Flip hood upside down to gain access to under side. Using a 1" hole saw, enlarge indicated holes only through the inner hood structure. (Figure 10) **Do NOT enlarge the holes on the outer surface of the hood.** This is only to allow the access for the attachment hardware and the 13mm deep well socket when tightening the bolts in these locations.

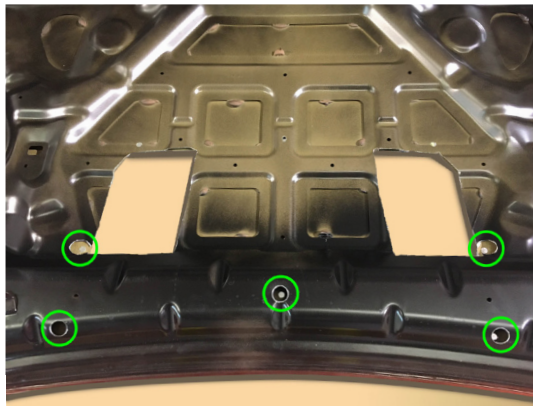


Figure 10

8. Using a 7/16" drill bit re-drill the 5 holes previously drilled with 1/4" drill bit.

C. Hood Liner

1. Cut out Hood Liner Marking template provided, and align circles indicated with the two central holes near the rear of the hood liner. (Figure 11)

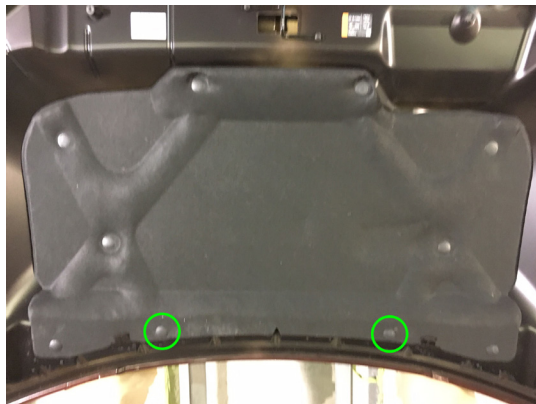


Figure 11

2. Trace the hood liner template and cut out traced area. Discard the smaller portion.

II. Installation:

A. Hood Vent

INSTALLATION OF HOOD VENT

1. Check to make sure hood vent studs align properly with the holes drilled. Adjust drill hole locations if necessary. Once hood vent rests on hood surface check the spacing between body lines and hood vent. Again, adjust holes if necessary.
2. Peel back corners of the 3m tape's red protective backer about two inches, so that you can remove the backer once hood is placed on hood. Align hood scoop correctly on hood, peel back tape backer and press down firmly with 30lbs of pressure along edges to stick vent to hood.
3. Flip hood over, using fender washers and lock nuts to attach hood vent to hood.

B. Hood Liner and Engine Bay Hood Cover

1. Reinstall trimmed factory hood liner using factory tree fasteners.
2. Using a .25" drill bit, drill 4 dimpled hole locations in cover, and install 2 of the provided tree fasteners as shown. (Figure 12)



Figure 12

3. Locate the two factory holes indicated (Figure 13a). Push tree fasteners into holes. Install 2 remaining tree fasteners provided through the remaining holes and into the corresponding factory holes in hood. (Figure 13b)

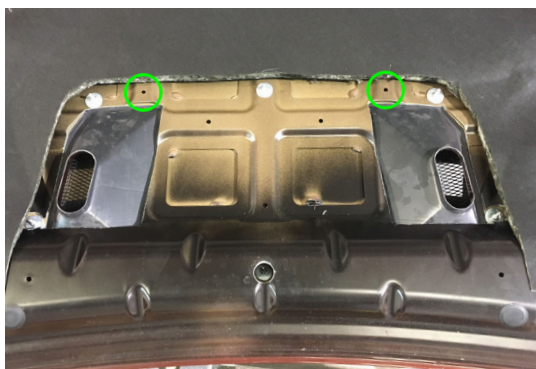


Figure 13a



Figure 13b

Installation Instructions
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