

# CFMoto Uforce Heater Kit

ICCH-UH-C-CFU85

1x 3" Hole Saw  
1x 55mm Hole Saw  
1x Hole Saw Arbor



1x Blower Switch



1x Quick Connect and  
1x 1/4 Eye Terminal



6f of 5/8  
Heater Hose

4x #16 Hose Clamps



6x #10 Hose Clamps



2x 5/16-18x5.5" Bolts



2x 5/16x18 Nuts



2x 7/16" Washer



4x #8x1/2 Screws



2x 15" Cable Ties



30x 11" Cable Ties

2x 7/8" Y Fitting



1x 5/8 Shut Off Valve

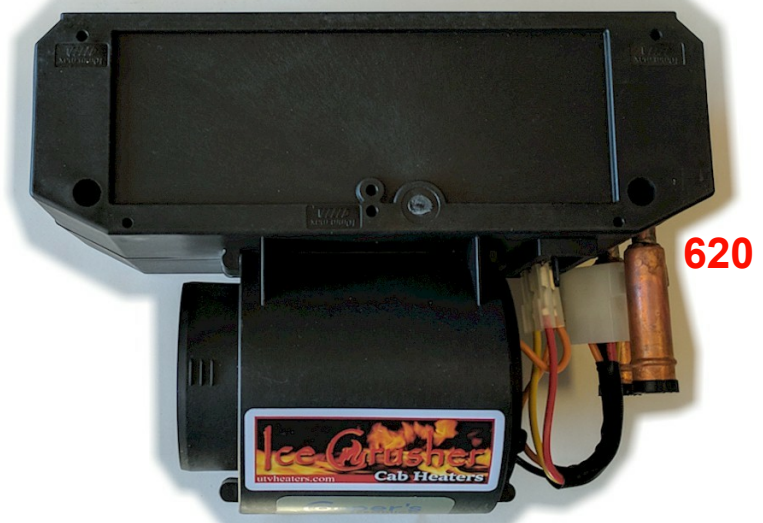


1x Black and Red  
Switch Bezel  
1x Switch Nut  
1x #2 Knob



1x Pre-made  
Power Loom

# CFMoto UForce Vent and Duct Kit



1x Heater Unit



Plastic Face Plate with Ports

1x 3" Grille and Connector



602

601



507

3" 3" Duct Hose  
(compressed )

3x 2" Y's



503

1x 3" Vents



502

5x 2" Vents



501



505

24" 2" Duct Hose  
(compressed )





**Please read all instructions before beginning installation. When working on cooling systems always allow the vehicle to cool to avoid being burned or scalded by hot coolant. Always disconnect vehicle's negative battery lead before working on electrical systems. This kit is reasonably complex to install. Competent mechanical skills are required.**

**Please note: Before drilling** any holes check area behind firewall/dash panels to make sure no damage or interference with equipment will occur by drilling holes and fitting of vents, hoses, wiring etc.

Use supplied templates to mark the position of the hole centers of dash defrost vents, center vents and lower vents. Drill lower left vent and intake fitting hole using supplied 3" hole saw as shown in Figure 1a to 1d. Drill dash defrost vents and center vents and lower right vent using supplied 55mm hole saw as shown in Figures 1e and 1i. Install 3" intake fitting using supplied #8 x 1/2" screws and snap on vent cover as shown in Figures 1b. **Tip:** Use a knife to remove burs and chamfer from the drilled holes to help with fitting of the vents.

## CFMoto UForce Underhood Ice Crusher Heater Kit.



Dismantle and remove hood and front fender panel as shown in Figure 2. Remove Battery.

Use supplied templates to mark the position of the heater mounting holes on the firewall behind the battery box as shown in Figure 3a and 3b. Drill to mounting holes to sizes stated on the template.

Move heater into position on the firewall behind the dash as shown in Figure 5. **Note:** You will have to cut the cable ties attaching the wiring loom to the frame to make room to pass the heater through this area. Use two of the supplied cable ties to reattach the loom when heater installation is completed.

Fold supplied heater hose in half and pass each end up to the heater on the **radiator side** of the firewall as shown in Figure 6a, do not cut hose to do this. **Attach** heater hoses to heater unit pushing the hose completely onto the heater fittings, secure with supplied #10 hose clamps as shown in Figure 6b.

**Please Note:** Be sure to remove factory shipping plugs from heater fittings if so fitted.

**Tip:** Using dish soap or a rubber/plastic cleaner on the hose will make the hose slip through the grommets easier. This can also be used on any hoses fittings and Y connectors to make connecting into hoses easier.

Using Figure 7 as a guide fit supplied 3" duct hose to the heater inlet and then to the 3" intake fitting in the dash. Use 15" cable ties around 3" duct hose connections.

**Tip:** To attach duct hoses to Y's and/or Vents either twist Duct Hose or Vents in a "screw" action.

With an assistant, from the cab side of the firewall install the 5/16"x5.5" bolts through the firewall and heater box as shown in Figure 8, fit supplied 5/16 nuts and tighten.

Mark the position of the switch hole centers as shown in Figure 9a and drill a 7/16 hole. **Note:** This is a suggested position for the switch. You may choose any other location within reach of the wiring loom. Remove switch blank and carefully trim the back of the blank as shown in Figure 9b. Refit the blank. Route the heater switch and wiring to switch mounting hole. Insert the switch through the 7/16 hole, install the red switch bezel and then the black bezel, 7/16 washer and switch nut as shown in Figure 9c. Carefully align switch bezels and tighten nut and attach knob.

Using Figure 10 as a guide cut duct hoses to length (lengths measured with the duct hose in its compressed state, measure and cut accordingly) Make up hoses assemblies using supplied Y connectors as shown in Figure 10.

**Tip:** To attach duct hoses to Y's and/or Vents either twist Duct Hose or Vents in a "screw" action. Use cable ties around all duct hose connections.



## CFMoto UForce Underhood Ice Crusher Heater Kit.



Using Figures 11a, 11b and 11c as a guide attach duct hoses to the 49mm connectors and route all the 2" duct hose from the heater mounting position to the correct vent positions as required. Use cable ties around all duct hose connections. Stretch hose as you route the hose to ensure you have enough hose to complete the installation.

Attached the switch connector to the switch. Connect the white four pin connector to the heater and route the wiring harness up in behind dash, locate AUX power wire (white/green) shown in Figure 12a. Connect the Blue wire to the white/green wire using the quick connector. Connect the black wire with the ¼ eye terminal to the factory bolt shown in Figure 12b.

Pull 2" duct hoses through the drilled vent holes, attach the correct size vent to the duct hoses. Use cable ties around all duct hose connections. Clip Vents into position as shown in Figures 13a – 13c. Do not install the defrost vents at this time.

Drain cooling system by removing lower radiator hose. **Important Tip:** If you have the equipment to clamp off the hoses where the Y fitting is to be installed, you won't have to drain cooling system, this makes installation much easier.

**Please Note:** Before cutting any hose, be sure that the placement of the Y connectors will not interfere with any part of the UTV.

Locate the lower radiator hose at the front of the UTV, cut radiator hose as shown in Figure 14a removing approximately a 1" to 1.5" section of the hose. Insert the Y connector exactly in the radiator hose as shown in Figures 14a and 14b.

Route the lower heater hose over to Y fitting in lower radiator hose, make a nice loop over to the Y fitting with the heater hose without any sinks. Cut heater hose to length.

**Please Note:** Make sure all hoses are as far away as possible from driveshaft, steering shaft, sharp objects and the exhaust system etc. Use supplied cable ties as necessary to secure hoses. **Please Note:** Before connecting the hoses to the Y connectors, take a garden hose and run water through the heater hoses and heater assembly. This will help remove air from the system and stop air locks, **this step must be carried out.** Fit hose to the Y connector and tighten clamp.

Locate the upper radiator at the front of the UTV, cut radiator hose as shown in Figure 14c removing approximately a 1" to 1.5" section of the hose. Insert the Y connector exactly in the radiator hose as shown in Figures 14b and 14c. Route the remaining heater hose to the Y fitting in upper radiator hose. Cut heater hose to length. Fit hose to the Y connector and tighten clamp.

Locate a convenient position to install the shutoff valve in the heater hose connected to the top radiator hose.

**Important:** Refill cooling system as per manufacturer's procedure. Reconnect battery. Start and run the vehicle at a fast idle and run up to normal operating. Check for leaks. Check operation of heater.

Reassemble UTV as required.

## CFMoto UForce Underhood Ice Crusher Heater Kit.



Pull 2" duct hoses through the drilled defrost vent holes, attach the correct size vent to the duct hoses. Use cable ties around all duct hose connections. Clip Vents into position as shown in Figures 15.

Allow vehicle to cool and recheck cooling system level and coolant ratio, fill as required. Refill cooling system as per manufacturer's procedure. Start and run the vehicle at a fast idle and run up to normal operating temperature. Check for leaks. Check heater operation. Allow vehicle to cool and recheck cooling system level and coolant ratio, fill and/or alter coolant ratio as required.

If the heater fails to blow hot/warm air once the vehicle is up to operating temperature, there may be an air lock in the heater unit. Temporarily block off the top/inlet radiator hose at radiator. Start and run vehicle up to operating temperature. Feel the outlet/lower hose from heater until it feels hot. The heater now should be blowing hot/warm air. Remove clamp from radiator hose. The heater should continue to blow hot/warm air. Allow vehicle to cool, open radiator cap and refill. This procedure may have to be repeated a few times to remove air from system. Restart the vehicle and run up to operating temperature, recheck heater operation. **Please note:** Heater output will be limited at idle, all testing should be done at a fast idle.





**Figure 1a**



**Figure 1b**



Figure 1c



Figure 1d



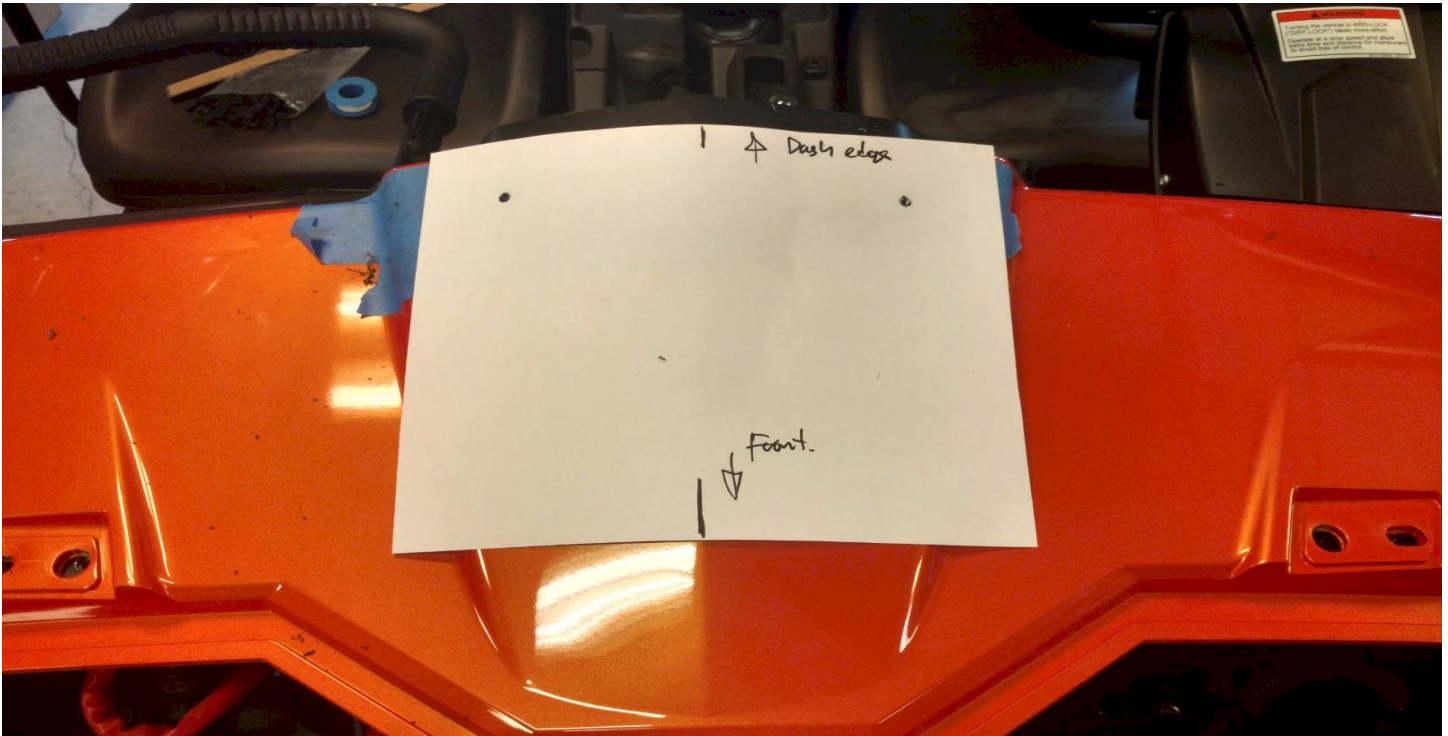


Figure 1e

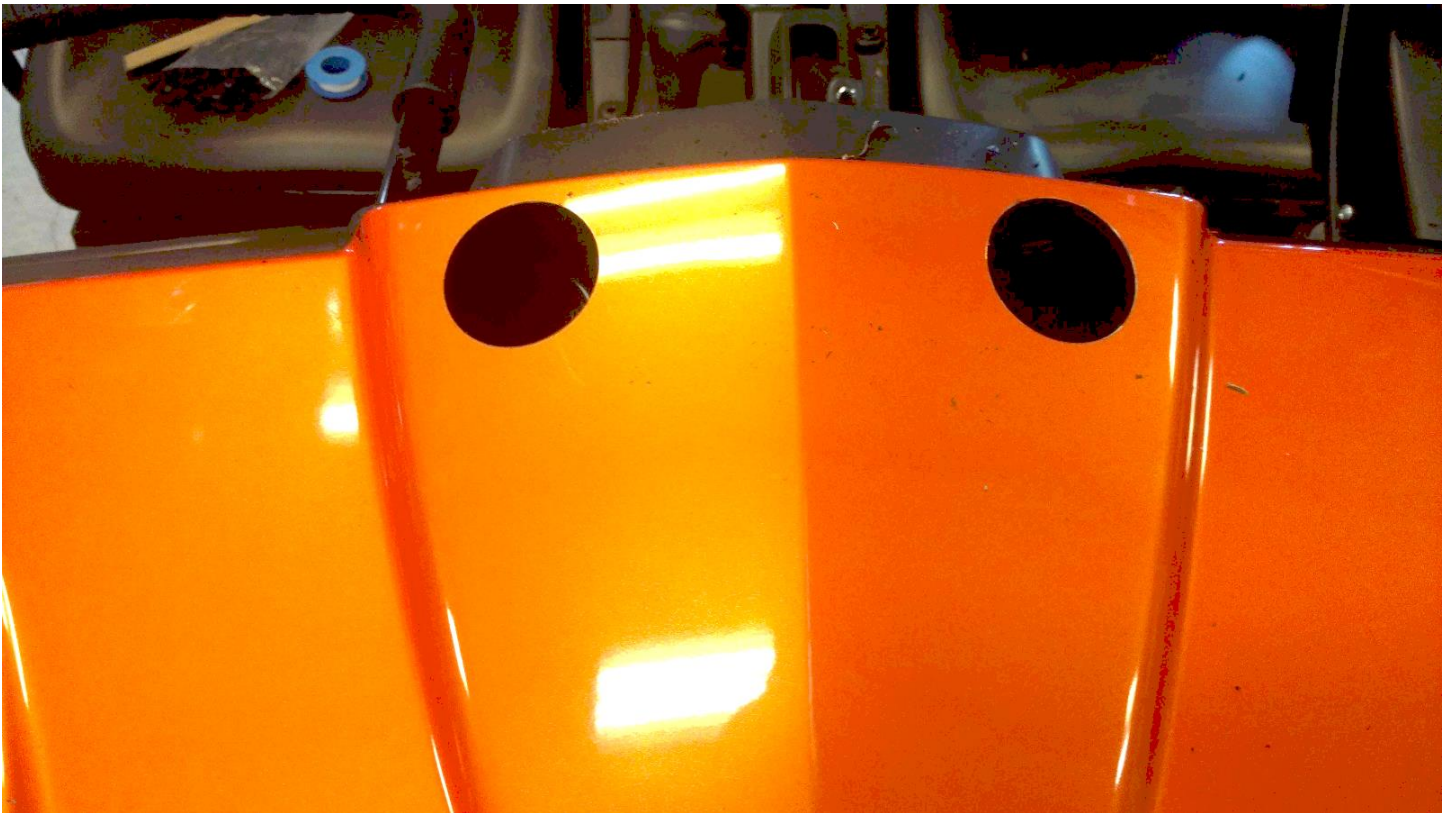


Figure 1f



Figure 1g



Figure 1h



## CFMoto UForce Underhood Ice Crusher Heater Kit.



Figure 1i

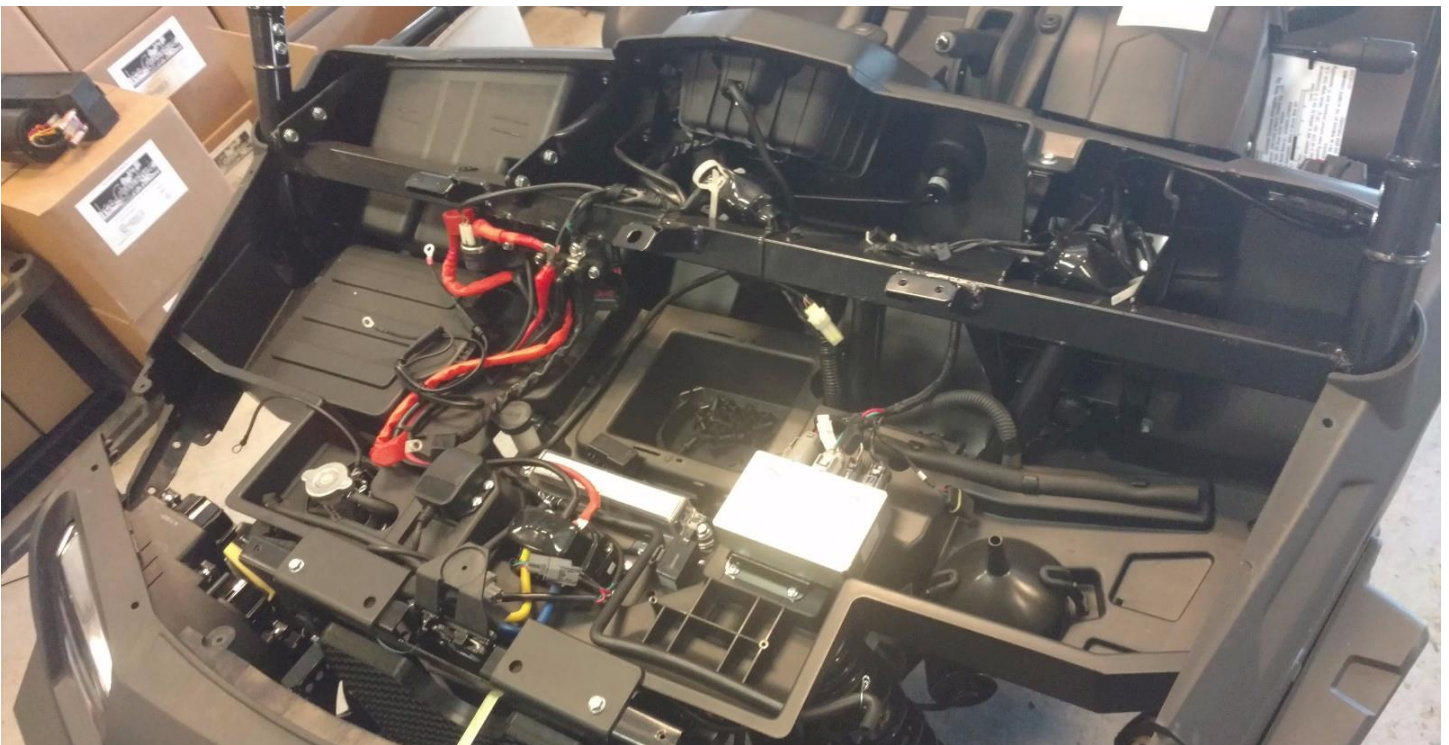


Figure 2



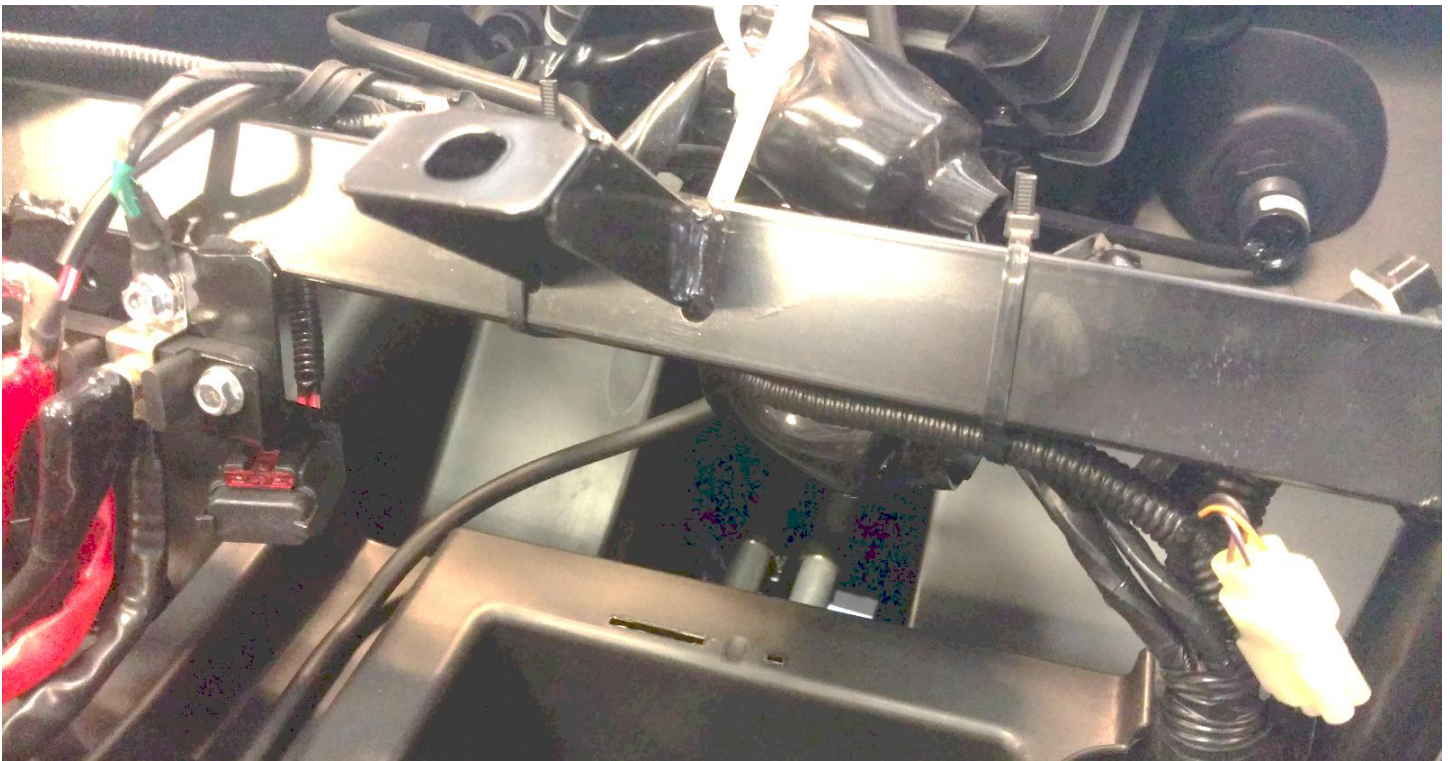


Figure 3a

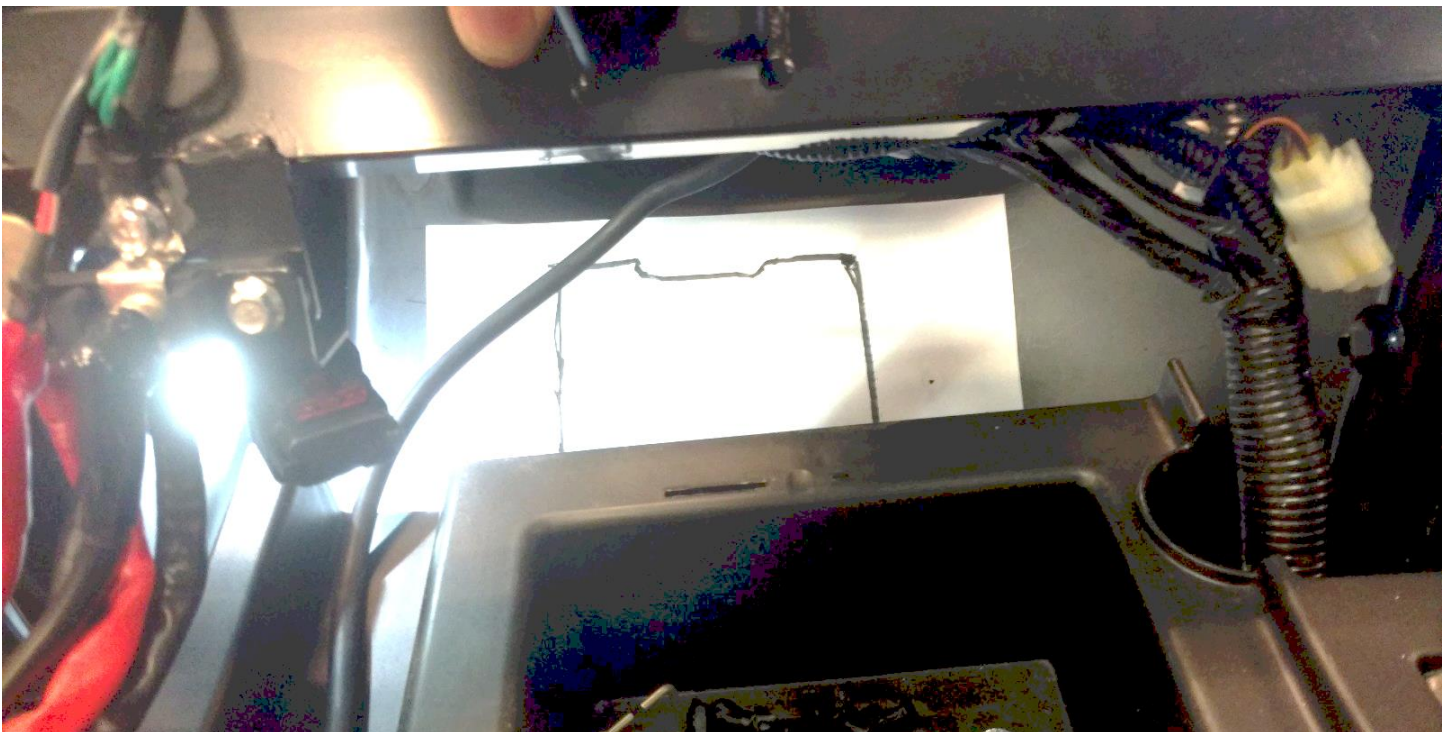


Figure 3b





Figure 5



Figure 6a



Figure 6b





Figure 7



Figure 8





Figure 9a



Figure 9b

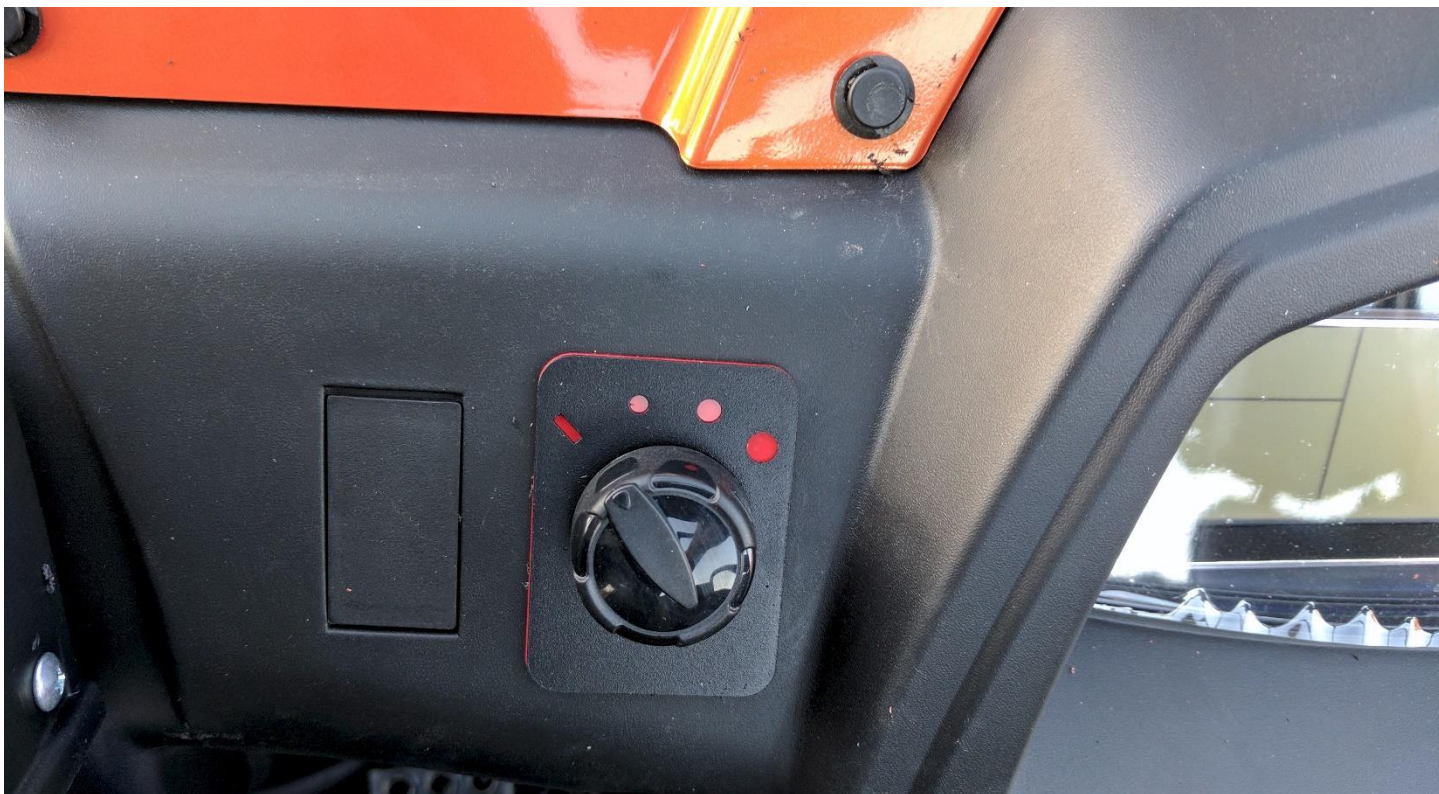


Figure 9c

CFMoto UForce Vent Hoses

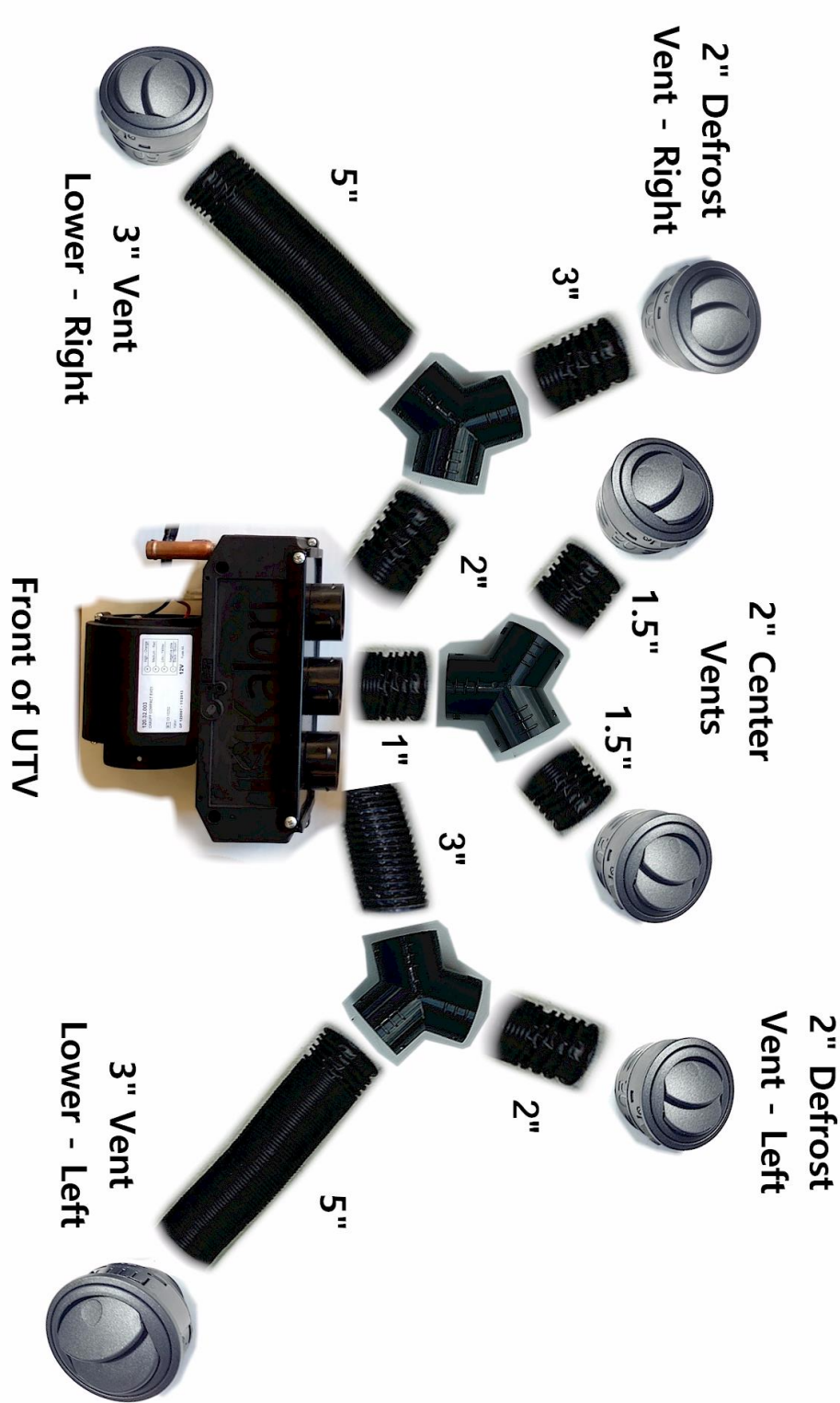


Figure 10





Figure 11a

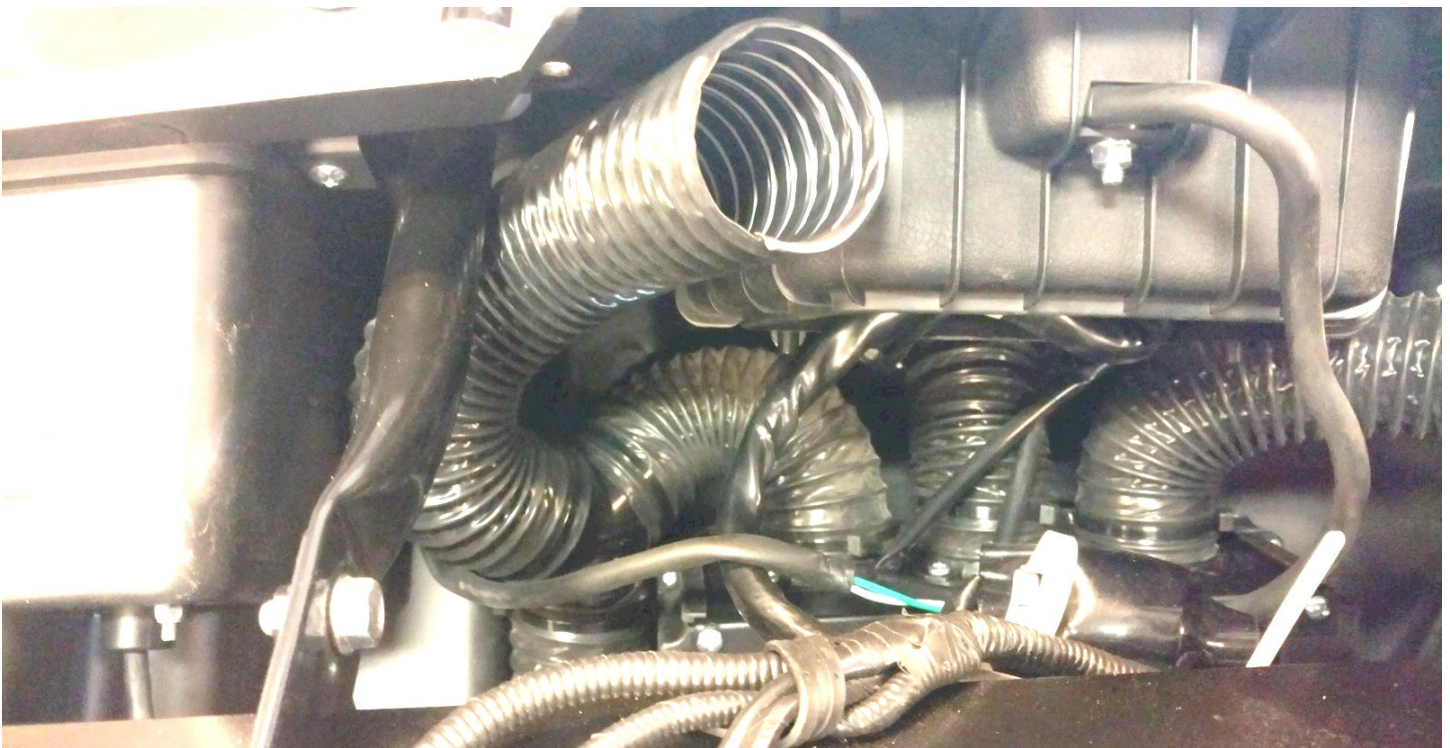


Figure 11b



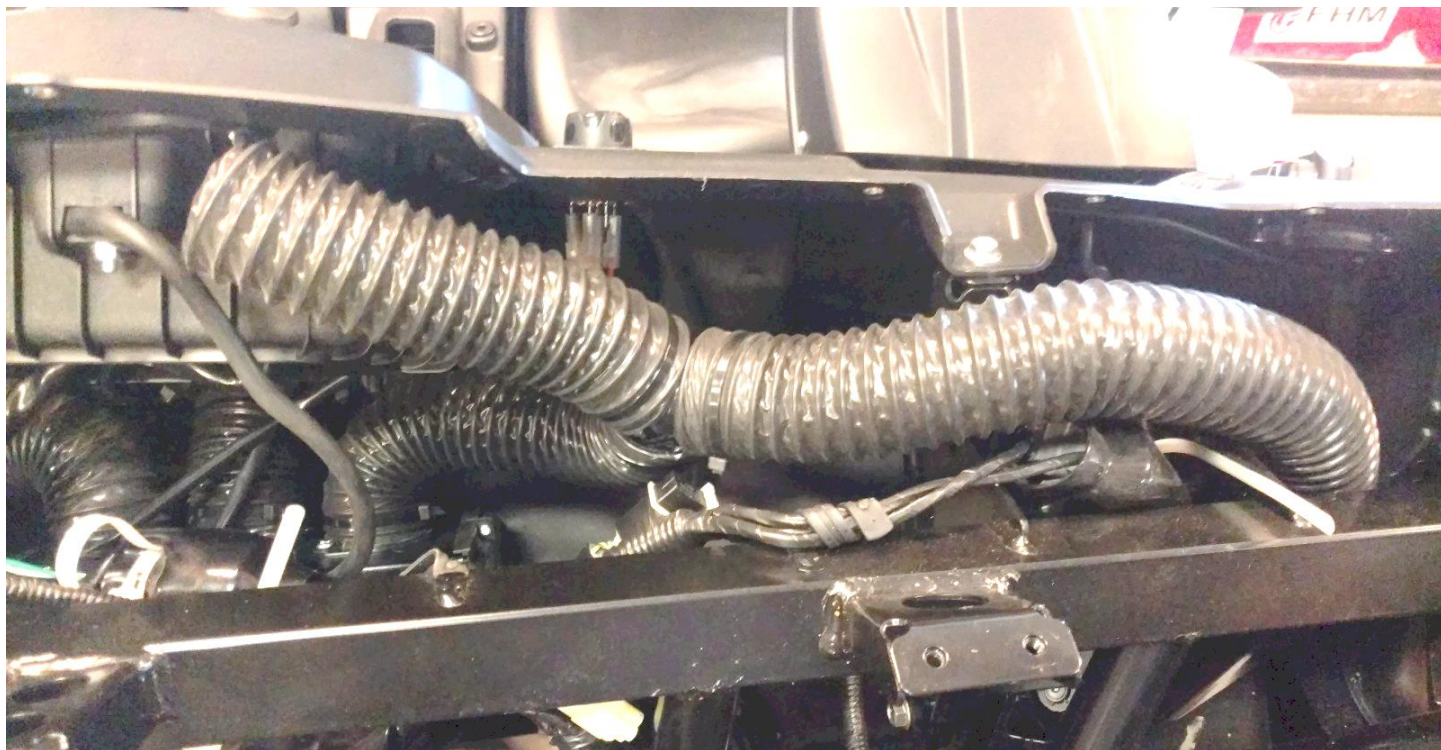


Figure 11c

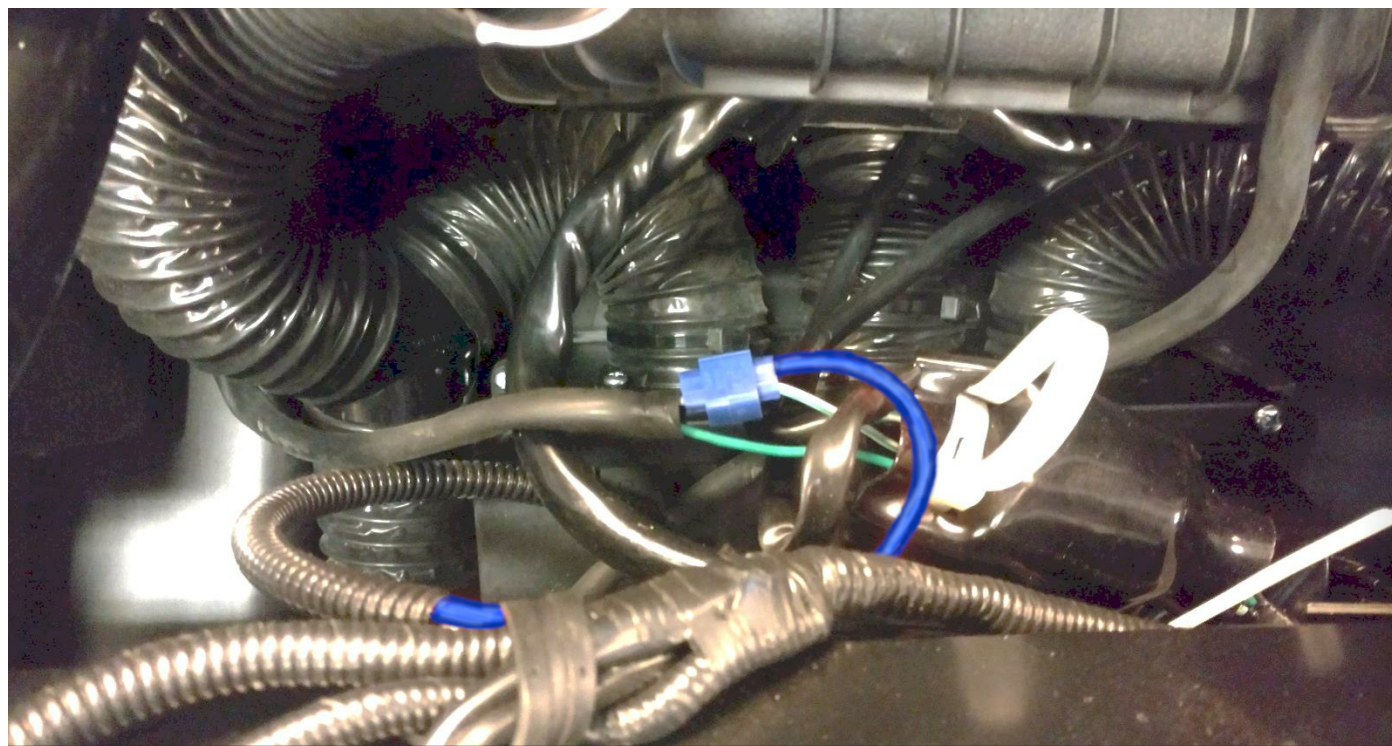


Figure 12a





Figure 12b



Figure 13a



**Couper's**  
PRODUCTS



Ver. 4/4/17



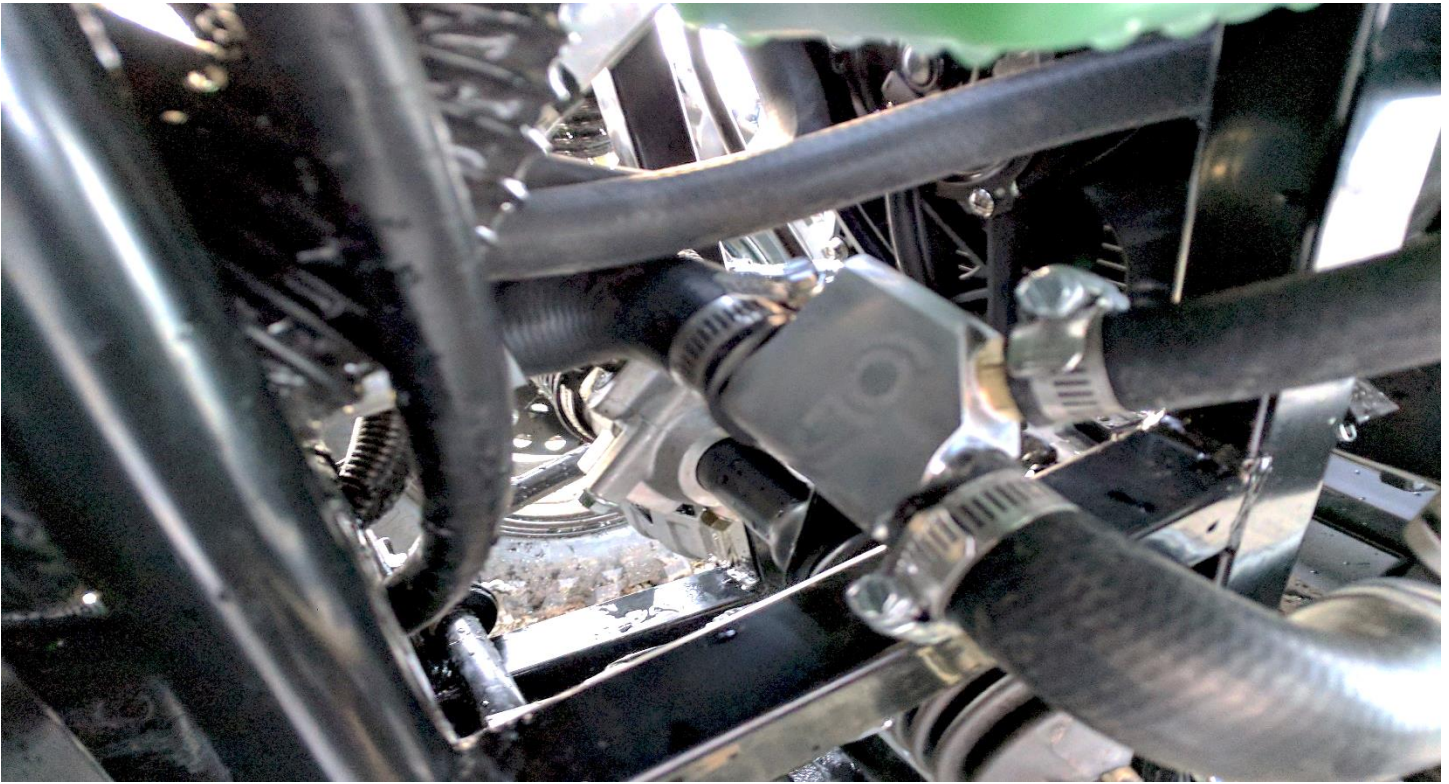


Figure 14a

Note: Inlet of heater must go to the  
top radiator hose

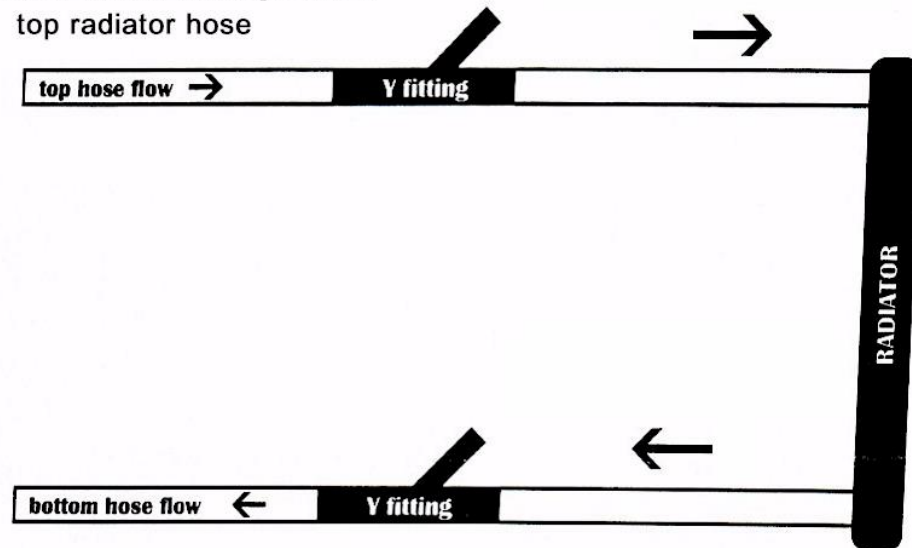


Figure 14b





**Figure 14c**





Figure 15

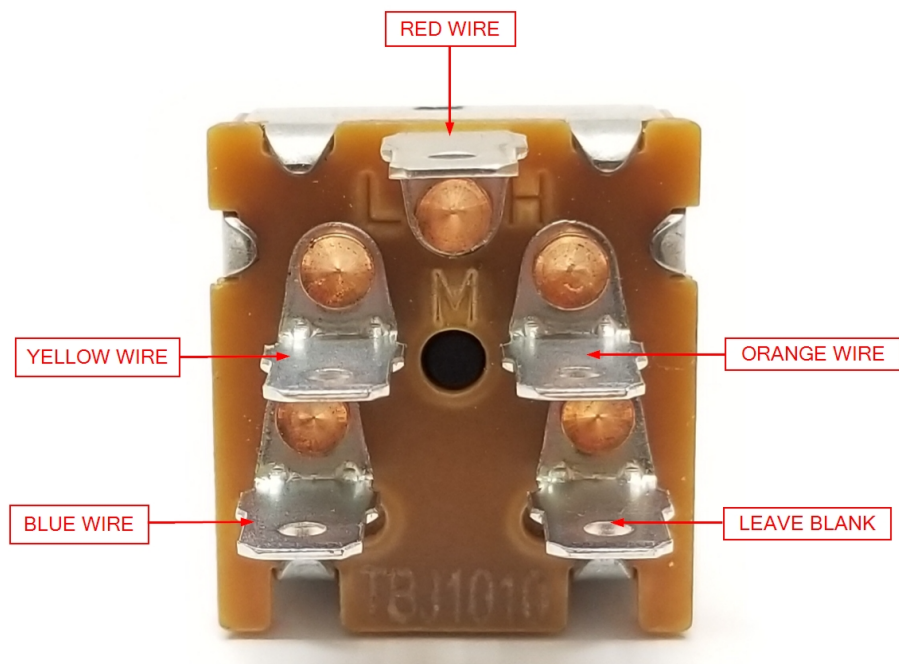


Figure 16

## CFMoto UForce Underhood Ice Crusher Heater Kit.



HEATER WARRANTY – [utvheaters.com](http://utvheaters.com) and [coupersproducts.com](http://coupersproducts.com)

### **\*Couper's Products/UTV Heaters.com Heater Warranty. 3 Year/36 Month Limited Warranty**

Couper's Products warrants your UTV Heater System to be free from defects in material and craftsmanship under normal use and service by the original consumer purchaser (end user) for a period of Three (3) year from the date of purchase on all components except electrical components including but not limited to, motor, switch, wiring and resistor. Electrical components are warranted to be free from defects in material and craftsmanship under normal use and service by the original consumer purchaser for a period of One (1) year from the date of purchase. The warranty is null and void if the system has been damaged by accident, improper installation, unreasonable use, lack of proper maintenance, unauthorized repairs or modifications, or causes not arising from defects in materials and craftsmanship.

Couper's Products obligation under this warranty are limited to repair of the product at Couper's Products production facility, or the replacement of the product at Couper's Products option and at Couper's Products expense. Any expense involved in the removal, reinstallation, or transportation of the product is ***not*** covered by this warranty. Prior to return of any product to Couper's Products customer must contact Couper's Products customer service, (802) 294 0016, and obtain a Return Authorization Number. This number must be marked on exterior of carton for easy identification. Warranty product received at Couper's Products without a Return Authorization Number may be returned at expense of sender.

Postage must be prepaid, and the original dated proof-of-purchase must be included. Couper's Products will not be liable for any damages sustained in transport due to improper packaging or handling. The acceptance by Couper's Products of any product returned shall not be deemed as an admission that the product is defective or in any violation of any warranty.

This warranty is Couper's Products only express warranty of this product. We reserve the right to make changes to products and policy that are in the best interest of Couper's Products. No implied warranty shall extend beyond One (1) or Three (3) year period from the date of the original consumer (end user) purchase. Couper's Products will not be liable for any damages, for loss of use of this product, nor for any consequential damages, costs or expenses.

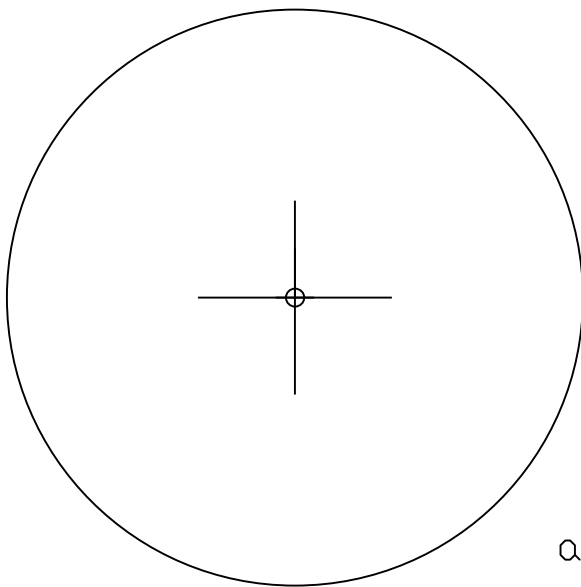
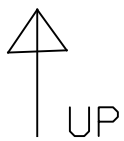
Some states do not allow limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights not mentioned here that vary from state to state.

After receiving a Return Authorization Number send defective product to:

Ice Crusher Heaters  
23001 Industrial Bld  
Rogers, MN, 55374  
888-964-0135



# CFMoto UForce Lower Left Vent Template Figure 1c and 1d



Mark hole center  
and drill holes with  
3" Hole Saw

Align these lines with the  
edge of panel molding

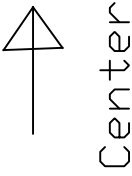
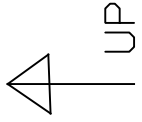
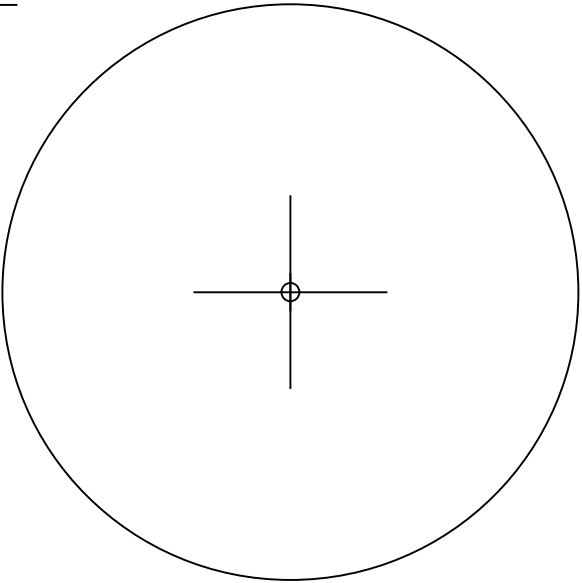
Please note: Before drilling any holes check  
area behind firewall/dash panels to make  
sure no damage or interference with  
equipment will occur by drilling holes and  
fitting of vents.





Please note: Before drilling any holes check area behind firewall/dash panels to make sure no damage or interference with equipment will occur by drilling holes and fitting of vents.

Mark hole center and drill holes with 3" Hole Saw



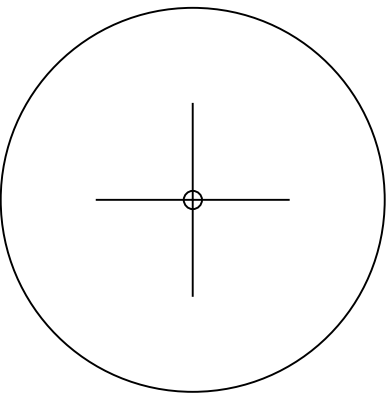
# CFMoto UForce Intake Template Figure 1a and 1b

Align these lines with the edge of panel molding

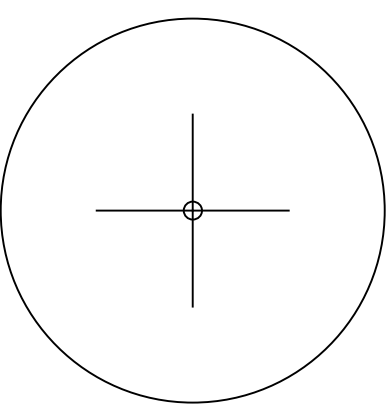




Align this line with the upper  
dash edge



Align this line  
with molded  
cease in the  
center of the  
dash



CFMoto UForce  
Defrost Dash  
Vent Template  
Figure 1e and  
1f

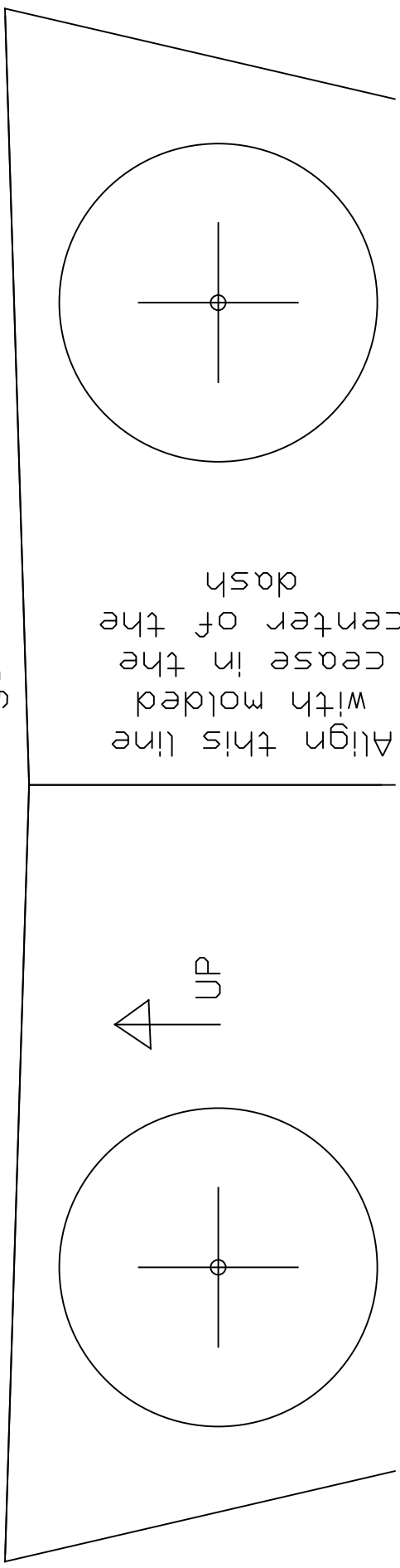
Mark hole centers  
and drill hole with  
55mm hole saw

Please note: Before drilling  
any holes check area  
behind firewall/dash  
panels to make sure no  
damage or interference  
with equipment will occur  
by drilling holes and fitting  
of vents.





Align this line with the upper  
dash edge



Mark hole centers  
and drill hole with  
55mm hole saw

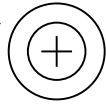
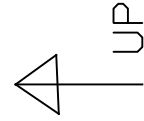
## CFMoto UForce Center Dash Vent Template Figure 1i

Please note: Before drilling any holes check area behind firewall/dash panels to make sure no damage or interference with equipment will occur by drilling holes and fitting of vents.





Factory Bolt

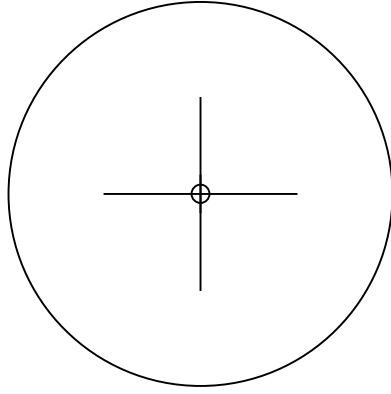


Align this line with the upper panel edge

## CFMoto UForce Right Lower Vent Template Figure 19 and 1h

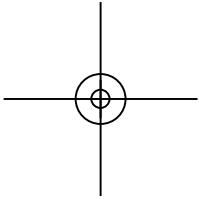
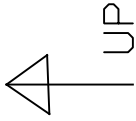
Please note: Before drilling any holes check area behind firewall/dash panels to make sure no damage or interference with equipment will occur by drilling holes and fitting of vents.

Mark hole centers  
and drill hole with  
55mm hole saw









Align these lines with the  
edge of molded panel  
opening

Mark hole centers  
and drill holes with  
 $\frac{5}{16}$  Drill Bit

## CFMoto UForce Heater Mounting Template Figure 3a and 3b

Please note: Before drilling any holes check  
area behind firewall/dash panels to make  
sure no damage or interference with  
equipment will occur by drilling holes and  
fitting of vents.

