

CFMoto ZForce Heater Kit

ICCH-UD-C-CFZ800

- 1x 1 1/4" Hole Saw
- 1x 55mm Hole Saw
- 1x Hole Saw Arbor



- 2x #16 Hose Clamps



- 6x #10 Hose Clamps



- 2x 5/16-18x5" Bolts



- 2x 5/16x18 Nuts



- 3x #10x1/2 Screws



- 2x 1/4"-20 x 3/4" Bolts



- 2x 1/4-20 Nylock Nuts



- 2x M6x20 Bolts



- 4x 1/4 Fender Washers



- 2x 1 1/4 Grommet



- 1x 1" Brass Y



- 1x 5/8 Tee Fitting



- 1x Quick Connector



- 1x 1/4 Ring Terminal



- 12"- 2 Wire Power Loom



- 10x 11" Cable Ties



- 1x Main Heater Bracket



- 1x Duct Elbow Mounting Bracket

- 2x Mounting Support Brackets



- 1x Heater Unit Bottom Drill

- 1x 90' Duct Elbow with vent hole



- 1x 2" Duct Y



- 2x 2" Defrost Vents



- 1x 2" Elbow Vent



- 1x Step-up



- 9" x 2" Duct Hose (Compressed)



- 6" x 2.5" Duct Hose (Compressed)



- 12f of 5/8 Heater Hose

CFMoto ZForce 800 Under Dash Compact Ice Crusher Heater.

ICE CRUSHER HEATERS



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.

Remove console and covers between the seats.

Remove under dash cover. Cut the plastic as required using a suitable tool as shown in Figures 1 and 2.

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Install heater and defrost mounting brackets as shown in Figure 3a using the supplied #10x1/2" mounting screws. Install heater supports bracket on the opposite side as shown in Figure 3b using supplied 5/16x5" bolts and 5/16 nuts. Do not fully tighten.

Using supplied heater mounting template, position template on firewall as shown on the template and in Figure 4, mark out heater hose hole centers on firewall, remove template. Carefully drill the two hose holes using the supplied 1 ¼ hole saw. Fit supplied grommets.

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

Move heater up into mounting position, Refit plastic under dash cover and attach heater mounting bracket to the dash using supplied 6mm bolts through the cover mounting holes into factory threads as shown in Figure 5. Do not fully tighten.

Using supplied 1/4x3/4" bolts, ¼" fender washers and 1/4" nuts attach rear adjustable mounting brackets through the factory firewall holes as shown in Figure 6. Adjust heater position, tighten all mounting bolts.

Using the supplied 5/8" heater hose cut off 2' of the hose. Feed the longer hose end from the **radiator side** of the firewall through the top grommet in the firewall and attach to the heat control valve, push the hose completely on the valve fitting. Secure with supplied #10 hose clamps. Feed the shorter hose end from the **radiator side** of the firewall through the lower grommet in the firewall and attach to the lower heater fitting, push the hose completely on the fitting. Secure with supplied #10 hose clamps. **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.

Drain cooling system by removing lower radiator hose. **Important Tip:** If you have the equipment to clamp off the hoses where the heating fitting is to be installed you won't have to drain cooling system.

Before cutting any hose, be sure that the placement of the Y or Tee connector will not interfere with any part of the vehicle.

Route the longer hose from front of the UTV back under center driveshaft tunnel as shown in Figure 7.

Locate head crossover hose as shown in Figure 8. Cut hose and install supplied Tee fitting as shown in Figure 9, do not tighten. Cut hose to length. Do not attach the hose to the fitting.

Locate the lower radiator hose at the front of the UTV as shown in Figure 9. Cut radiator hose as shown in Figure 11 removing approximately a 1" to 1.5" section of the hose. Insert the Y connector exactly in the radiator hose as shown in Figures 11 and 12. Cut hose to length. Do not attach the hose to the fitting.

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Please Note: Before connecting the hoses to the Y and fittings, take a garden hose and run water through the heater hose and heater assembly. This will help remove air from the system and stop air locks, **this step must be carried out.**

Fit hoses to Y connector and Tee, tighten clamps.

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.

Use supplied dash defrost template to mark the position of the hole center of dash defrost vent on dash top. Drill vent hole using supplied 55mm hole saw as shown in Figure 13.

Make up duct hose as shown in Figure 14. Use cable ties around hose connections.

Connect the 2.5" duct hose to the heater defrost outlet as shown in Figure 15. Route the hose from the heater out to drilled vent holes. Pass the duct hose through the drilled vent hole, fit 2" duct hose to the vent, install the vent into the dash as shown in Figure 16.

Connect the white two pin connector to the heater unit. Use the blue quick connector to attach to the red heater power wire to the white wire of the aux. plug power. Attach the 1/4" Ring Terminal to the black heater power wire and mount it to the main UTV chassis using mounting bolts as shown in Figure 17.

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.

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. This procedure may have to be repeated a few times to remove air from system. Allow vehicle to cool, 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.

CFMoto ZForce 800 Under Dash Compact Ice Crusher Heater.



Figure 1



Figure 2

CFMoto ZForce 800 Under Dash Compact Ice Crusher Heater.



Figure 3a

CFMoto ZForce 800 Under Dash Compact Ice Crusher Heater.



Figure 3b

CFMoto ZForce 800 Under Dash Compact Ice Crusher Heater.

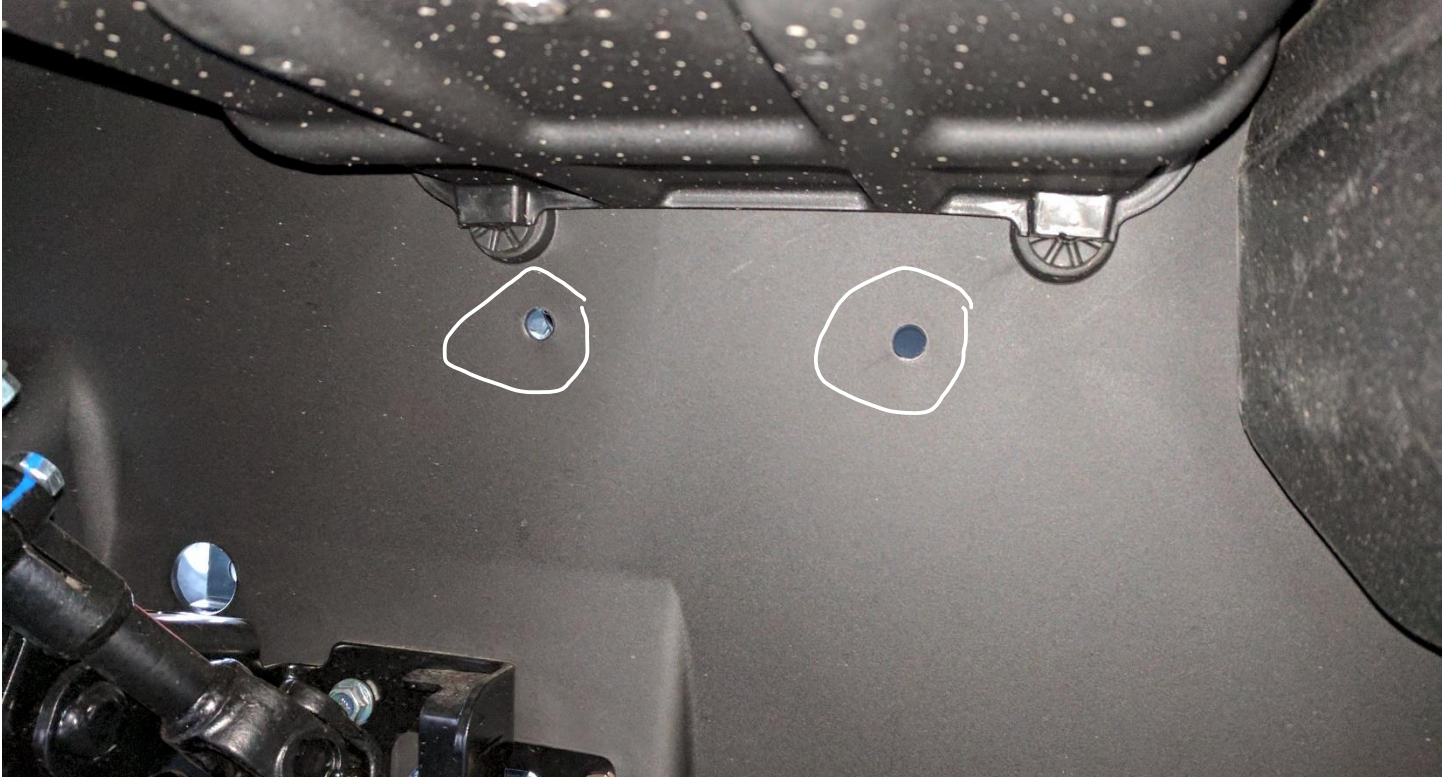


Figure 4



Figure 5

CFMoto ZForce 800 Under Dash Compact Ice Crusher Heater.

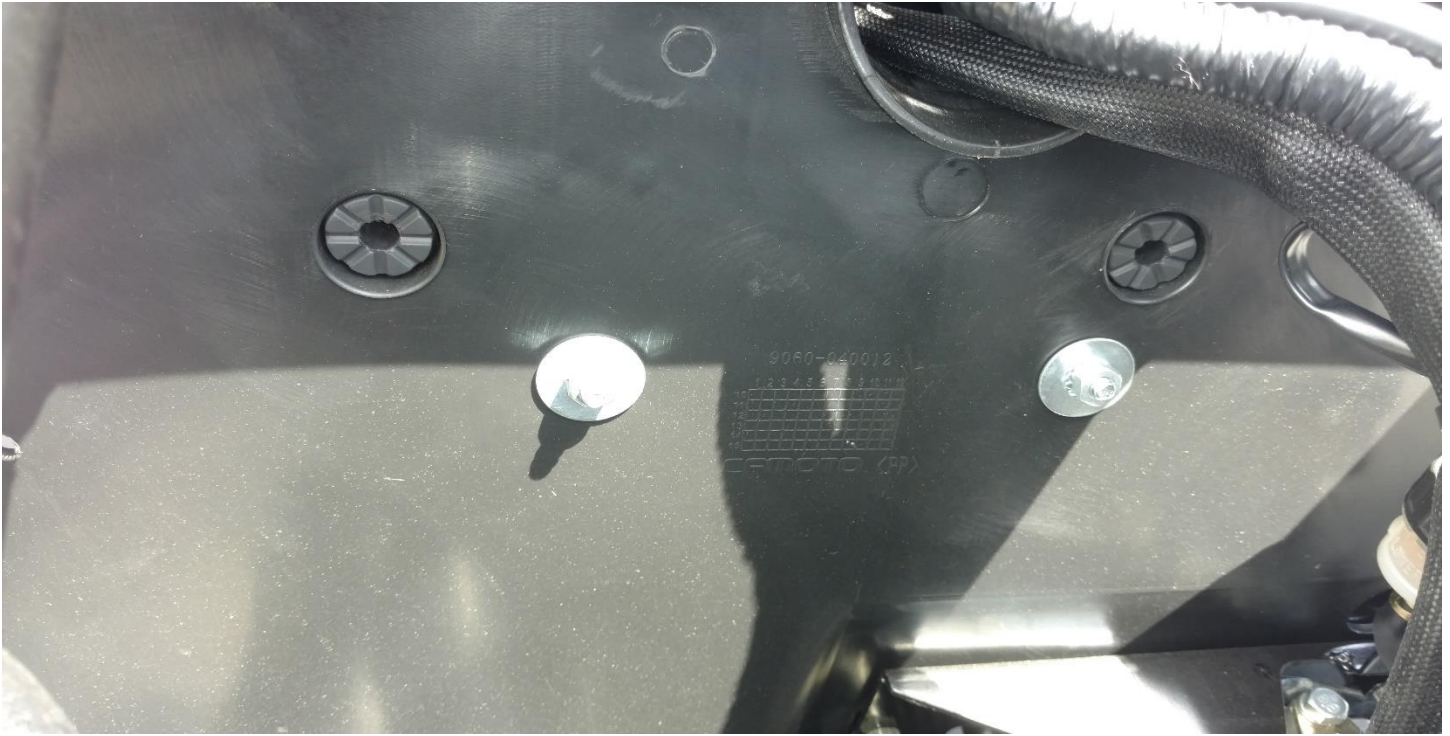


Figure 6

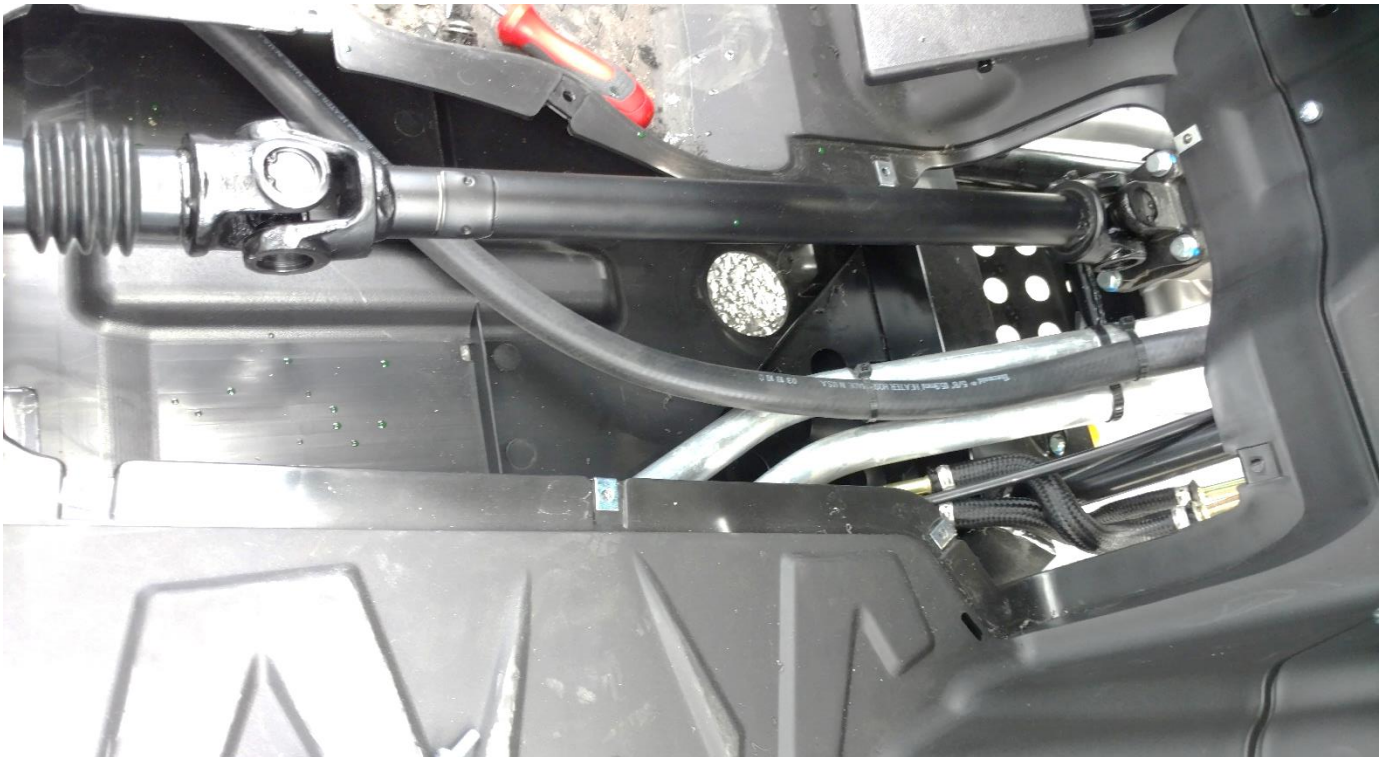


Figure 7

CFMoto ZForce 800 Under Dash Compact Ice Crusher Heater.



Figure 8



Figure 9

CFMoto ZForce 800 Under Dash Compact Ice Crusher Heater.



Figure 10



Figure 11

CFMoto ZForce 800 Under Dash Compact Ice Crusher Heater.

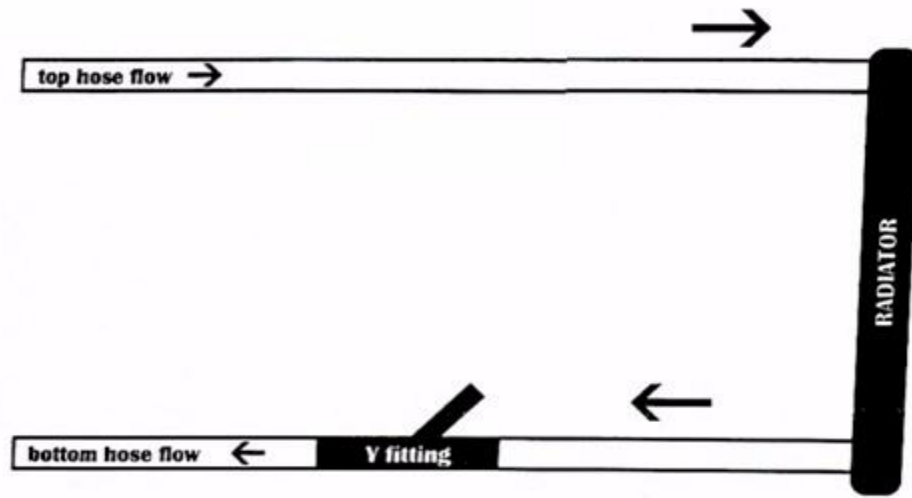


Figure 12

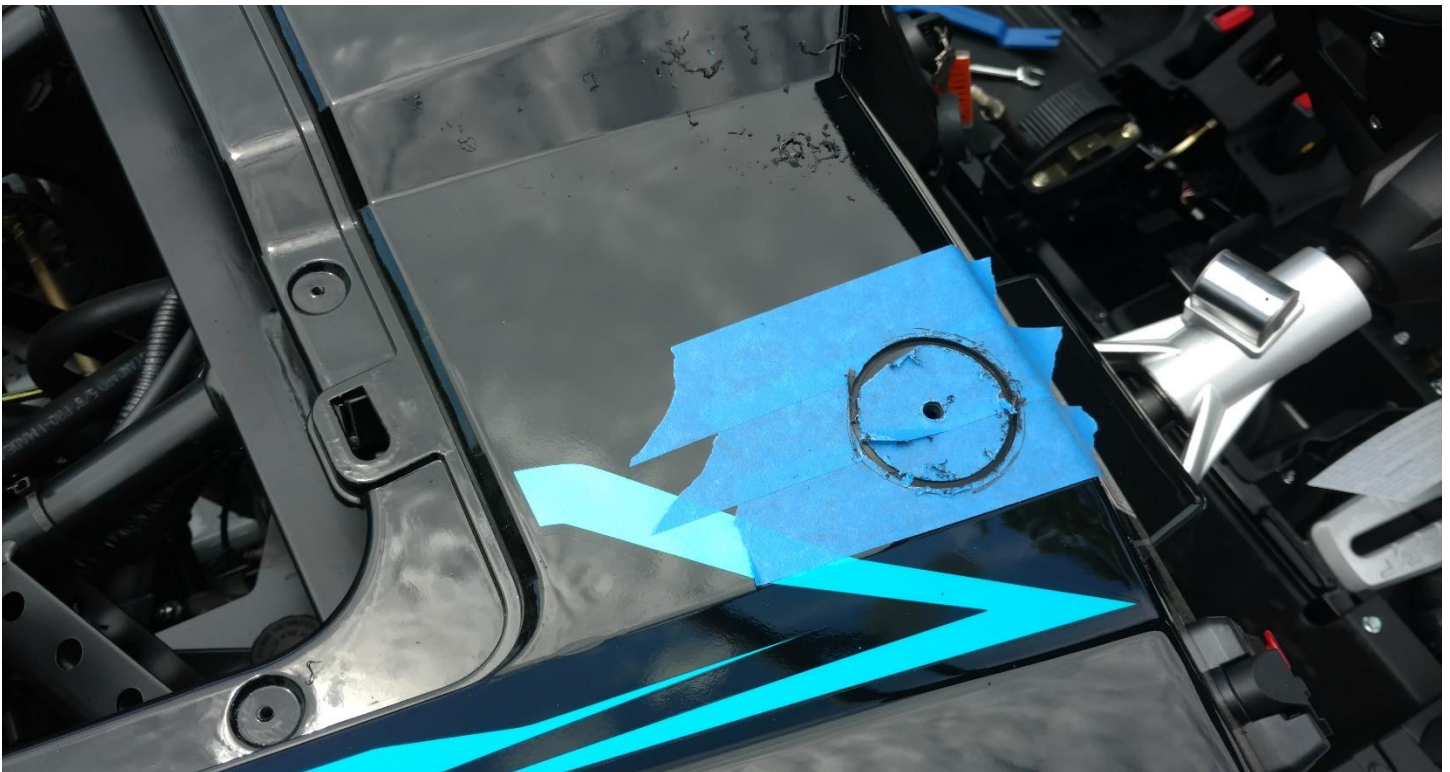


Figure 13

CFMoto ZForce 800 Under Dash Compact Ice Crusher Heater.

Heater Defrost Hoses and Vents

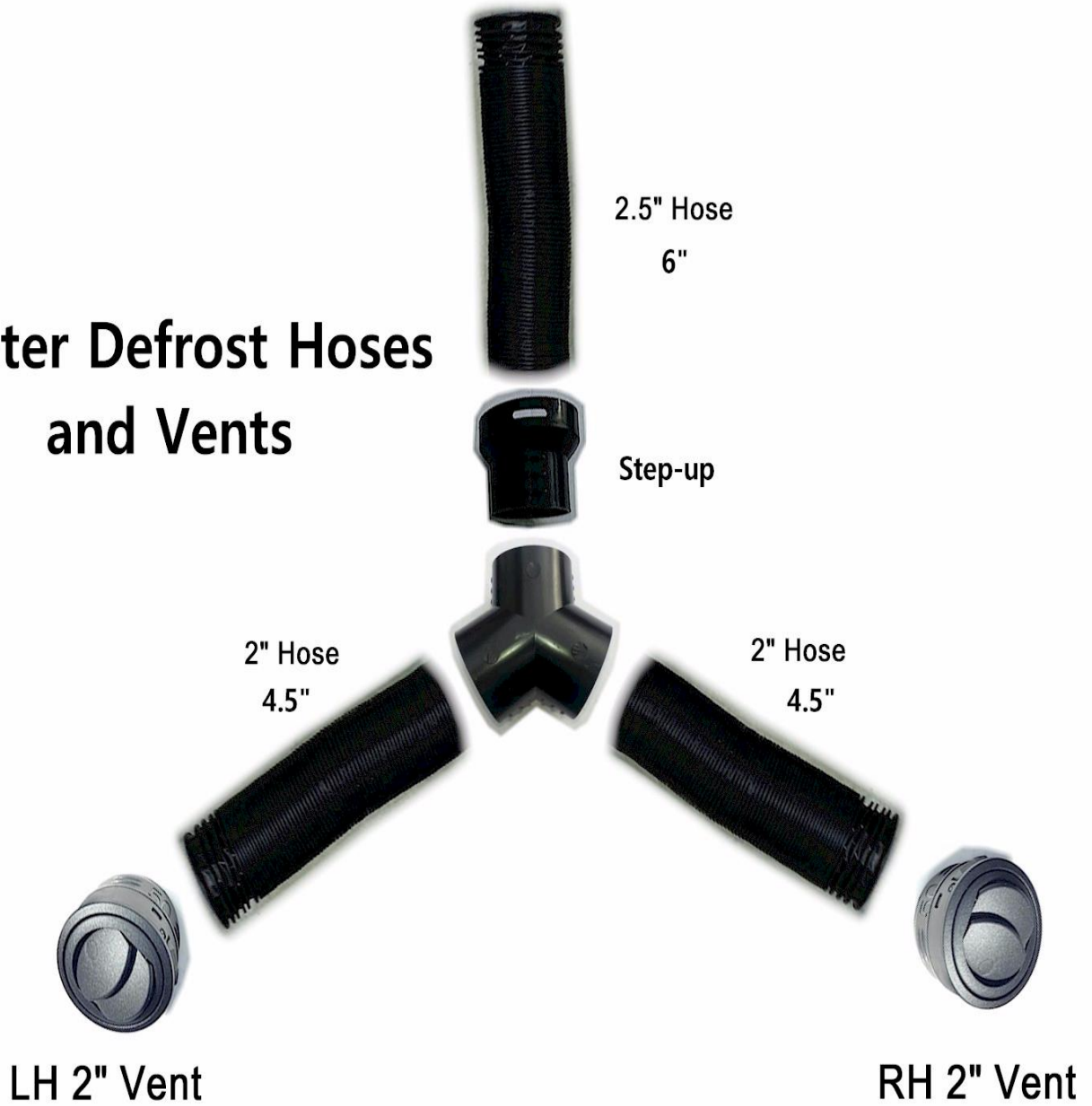


Figure 14

CFMoto ZForce 800 Under Dash Compact Ice Crusher Heater.



Figure 15



Figure 16

CFMoto ZForce 800 Under Dash Compact Ice Crusher Heater.

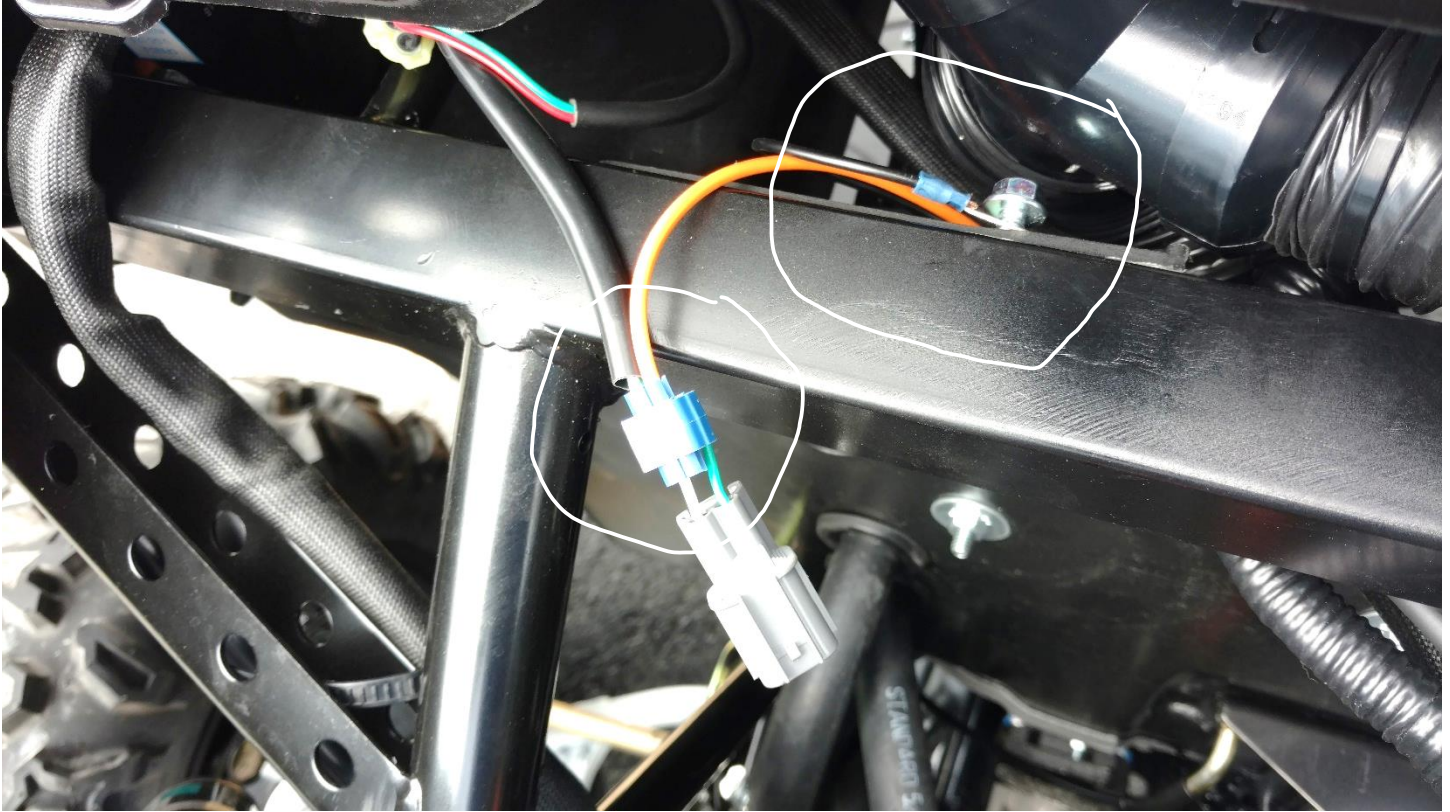


Figure 17

CFMoto ZForce 800 Under Dash Compact Ice Crusher Heater.

HEATER WARRANTY – utvheaters.com and couperproducts.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.

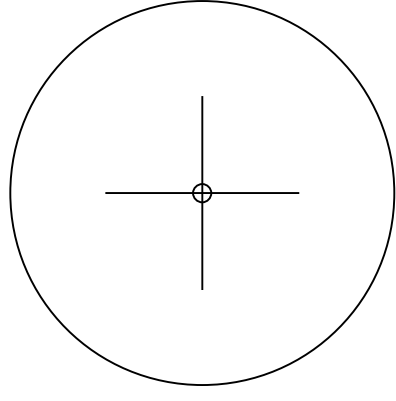
Some states do not allow limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights not mentioned here that vary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

After receiving a Return Authorization Number send defective product to:

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

Align this line with the dash edge

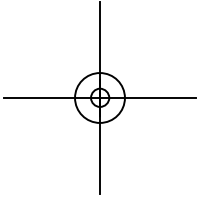
CFMoto ZForce
Left Defrost
Dash Vent
Template. Filp
for Right side



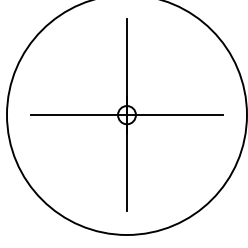
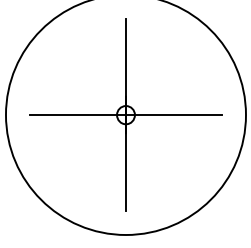
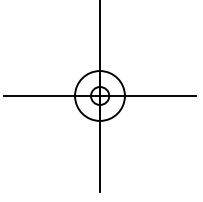
Mark hole centers
and drill hole with
55mm hole saw

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

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 with the
factory holes on
firewall as shown
in Figure 4



Mark hole centers
and drill hole with
1 1/4 hole saw

CFMoto ZForce Heater Hose Template Figure 4

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 or hoses.