Polaris General Heater Kit

ICCH-BD-C-POLGEN

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

1x Hole Saw Arbor
1x 1 1/4" Hole Saw
2x #16 Hose Clamps

6x #10 Hose Clamps

2x #6 Hose Clamp

2 Seat - 11f of 5/8
Heater Hose

4 Seat -13f of 5/8
Heater Hose

1x Blower Switch

2x 7/16" Washer

3x 1/4" Fender Washers

2x 5/16-18x5" Bolts

2x 5/16x18 Nuts

2x #10x1/2" Screws

2x 1/4-20x3/4" Bolts

1x 1/4-20x1" Bolt

3x 1/4x20 Nuts

2x 1 1/4" Gommets

213-WC

1x Wiring Harness with
2-Pin Connector

1x 1" Brass Y
1x 3 Way Ball Vave

2x EZ-Coils

1x Polaris Pulse
Connector

30x 11" Cable Ties

Supplied without Heat Control

1x IC-SWBCRED Bezel,
Switch Nut, 2 x#2 Knob
and IC-SWBC Bezel

Supplied with Heat Control

1x IC-POLGENSWHCBCRED
Bezel, Switch Nut
2x #2 Knobs and
IC-POLGENSWHCBC Bezel

620

1x Heater Unit

1007

1x IC-POLGENMHB
Main Heater Brkt

1005P

Plastic Face Plate with Ports

Vent and Duct Kit

3x 2" Y's

503

2x 3" Vents

502

4x 2" Vents

501

505

36" 2" Duct Hose
(compressed)

Please read all instructions before beginning installation. When working on cooling systems always allow vehicles to cool to avoid being burned or scalded by hot coolant. Always disconnect vehicles negative battery lead before working on electrical systems.

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.

Remove top dash panel as required as shown in Figure 1.

Using supplied vent hole templates, position templates in correct locations as shown in Figures 2a – 2c and on the templates, mark out hole saw centers as stated on templates, remove templates. Carefully drill holes using supplied 54mm hole saw as directed on templates. **Tip:** Use a knife to remove burs from the drilled holes to help with fitting of the vents. **Note:** Defrost vents may need to be repositioned because of factory or aftermarket equipment fitment.

Locate lower vent position as shown in Figures 3a and 3b, note small molding indent in the center of the plastic panels, use these as the hole saw center for drilling. Carefully drill holes using supplied 3" hole saw.

Using supplied heater mounting template, position templates up under the dash on the right side of inner firewall panel as shown in Figures 4a and 4b and on the template. Position top of the template up against the molded edge at the top of the firewall and measure 3 ¾" from the center firewall molding to the right lower edge of the template, tape template into place as shown in Figures 4b and 4c. Mark out hole centers as stated on template, remove template. Drill holes with a 5/16" drill bit.

Use supplied switch template to mark the position of the switch hole centers as shown in Figure 5. Drill holes with a 7/16" drill bit.

Optional Heat Control: Use supplied template to mark the position of the control hole centers as shown in Figure 5. Drill holes with a 7/16" drill bit.

Using supplied heater hose hole template, position template in the location on right side footwell/firewall as shown in Figures 6 and on the templates, mark out hole centers as stated on templates, remove templates. Carefully drill holes using supplied 1 ¼" hole saw as directed on templates. **Note:** Please note the different locations of heater hose holes depending on whether the kit is supplied with or without heat control. Fit 1¼ Grommets to the drilled holes.

Using the supplied heater face plate slide it into the front of the heater until it snaps into place.

Install heater mounting brackets to heater as shown in Figure 7b using supplied 5/16"x5" bolts and #10x ½" screws.

Remove heat control from heater (if supplied), move heater up into position, using supplied ¼-20x3/4" bolt fit bolt through left lower bracket mounting hole and the firewall, fit ¼" fender washer and ¼" nut. Let the heater swing down on the mounting bolt.

Route the heater switch and wiring to switch mounting hole as shown in Figure 5 and 8, install switch, switch bezel, 7/16 washer and switch nut. Tighten nut and fit knob.

Optional Heat Control: Refit heat control to the heater. Route the control assembly to mounting hole, install control as shown in Figure 5 and 8. Ream out center of the bezel hole to remove the flat piece of the hole. Fit control bezel, 7/16 washer and switch nut, Tighten nut and fit knob. Secure heat control to the heater with supplied #10 hose clamp.

Connect the Heater Wiring Harness to the Heater Unit. Route the harness to the switch and connect the switch. Route the 2-pin connector to the Polaris Pulse Connector bank under the front hood. Connect the include Polaris Pulse Connector Pigtal to the 2-pin connector on the Heater Harness and plug it into an available spot on the accessory bank.

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 2" Y connectors as shown in Figure 10 and connect to the heater as shown in Figure 11.**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.

Route all the 2" duct hose from the heater mounting position to the top center dash position. Use cable ties around all duct hose connections.

Move heater up into position, install supplied ¼-20x3/4" and ¼-20x1" (Top) bolts, ¼" fender washers and ¼" nuts. Tighten nuts.

Route all the 2" duct hose from the heater mounting position to the vent holes. Stretch hose as you route the hose to ensure you have enough hose to complete the installation. Pull 2" duct hoses through the drilled vent holes, attach the correct size vent to the duct hoses. Clip Vents into position. Use cable ties around all duct hose connections. Refit top dash panel.

Using supplied heater hose route the hose from the front of the UTV under center driveshaft tunnel following the coolant pipes to the rear of the UTV as shown in Figures12 and 13 and up to top coolant hose. At the front of the UTV feed the 5/8" heater hose end from the ***radiator side*** of the firewall through the bottom grommet in the firewall pulling enough of the hose through grommet to attach to the heat control valve (if fitted) on the heater. **Tip:** Using dish soap or a rubber/plastic cleaner on the hose will make the hose slip through the grommets easier. Install the unicoils and shape them so the hoses can

attach to the heat control valve (if fitted) on the heater as shown in Figure 14. Secure with supplied #10 hose clamp. Adjust the hose length back to the rear of the UTV. Secure heater hose with cable tie to coolant pipes. **Please Note:** Make sure all hoses are as far away as possible from driveshaft, steering shaft, sharp objects and the exhaust system etc.

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 connector will not interfere with any part of the UTV.

From the Passenger Side Rear Wheel well, locate the Oil Cooler Bypass Hose toward the front of the engine as shown in Figure 15a. Cut a 1'' to 1.5'' section of hose approximately at the yellow mark shown in Figure 15a. Insert the 3-Way Ball Valve in the Oil Cooler Bypass Hose with the arrow on the valve, see Figure 15b, following the flow direction as shown in Figure 15a. Secure the valve with the supplied #10 Hose Clamps. Connect the 5/8'' Heater Hose to the 5/8'' Port on the Valve and use a #10 Hose Clamp to secure it.

Using the remaining heater hose, pass it through the top grommet in the firewall. Install and shape the Unicoil on to the hose and attach it to the remaining fitting on the heater shown in Figure 14. Secure with a #10 Hose Clamp. PLEASE NOTE: Be Sure to remove factory shipping plugs from the heater before installed hoses.

From the Passenger Side front wheel well, locate the lower radiator hose. Cut the radiator hose as shown in Figure 16a, removing 1" to 1.5" of the hose. Insert the Y connector exactly as shown in Figure 16b. Secure the two ends of the Y fitting with #16 Hose Clamps

Route the front heater hoses over to the Y Fitting in the lower radiator hose. Cut the 5/8'' Heater hose to length and install it on to the brass fitting. Secure with a #10 Hose clamp. PLEASE NOTE: Make sure all hoses are secured away from the drive shaft, steering shaft, sharp objects and exhaust system.

Secure heater hose with cable tie to coolant pipes.

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.

IMPORTANT NOTE FOR OPTIONAL IN CAB HEAT CONTROL:

AT THE END OF THE COOLER MONTHS WHEN THE HEATER IS NO LONGER DESIRED TO PRODUCE HEAT, IT IS IMPORTANT TO TURN THE 3-WAY BALL VALVE HANDLE SUCH THAT IT IS PARALLEL WITH THE OIL COOLER BYPASS LINE. THIS WILL DIVERT COOLANT BACK TO THE ENGINE IN THE EVENT THAT THE IN CAB HEAT CONTROL KNOB IS IN THE OFF POSITION, WHICH WILL CAUSE THE COOLANT IN THE OIL COOLER BYPASS LINE NOT TO MOVE.

WINTER MODE

SUMMER MODE

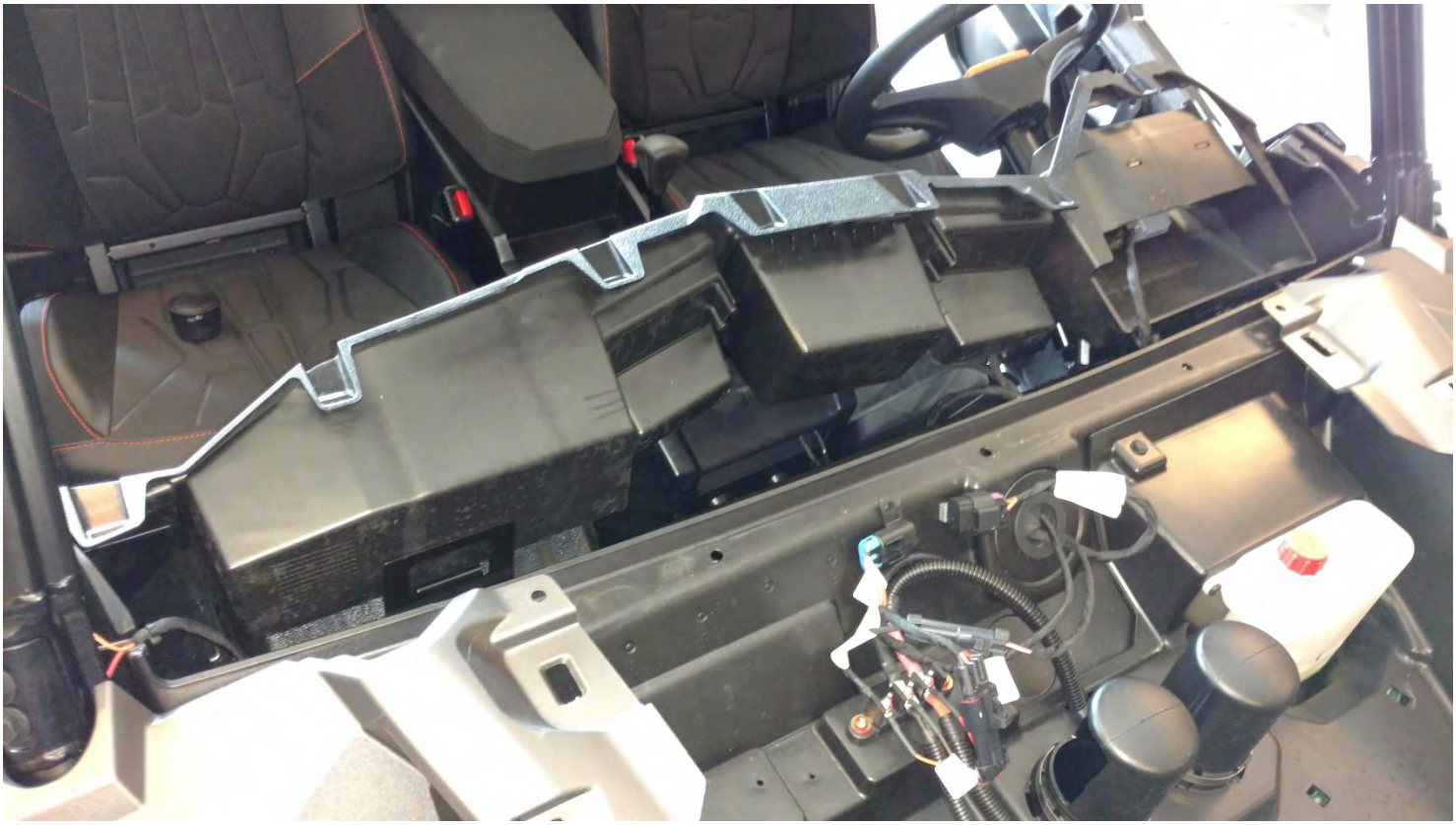


Figure 1

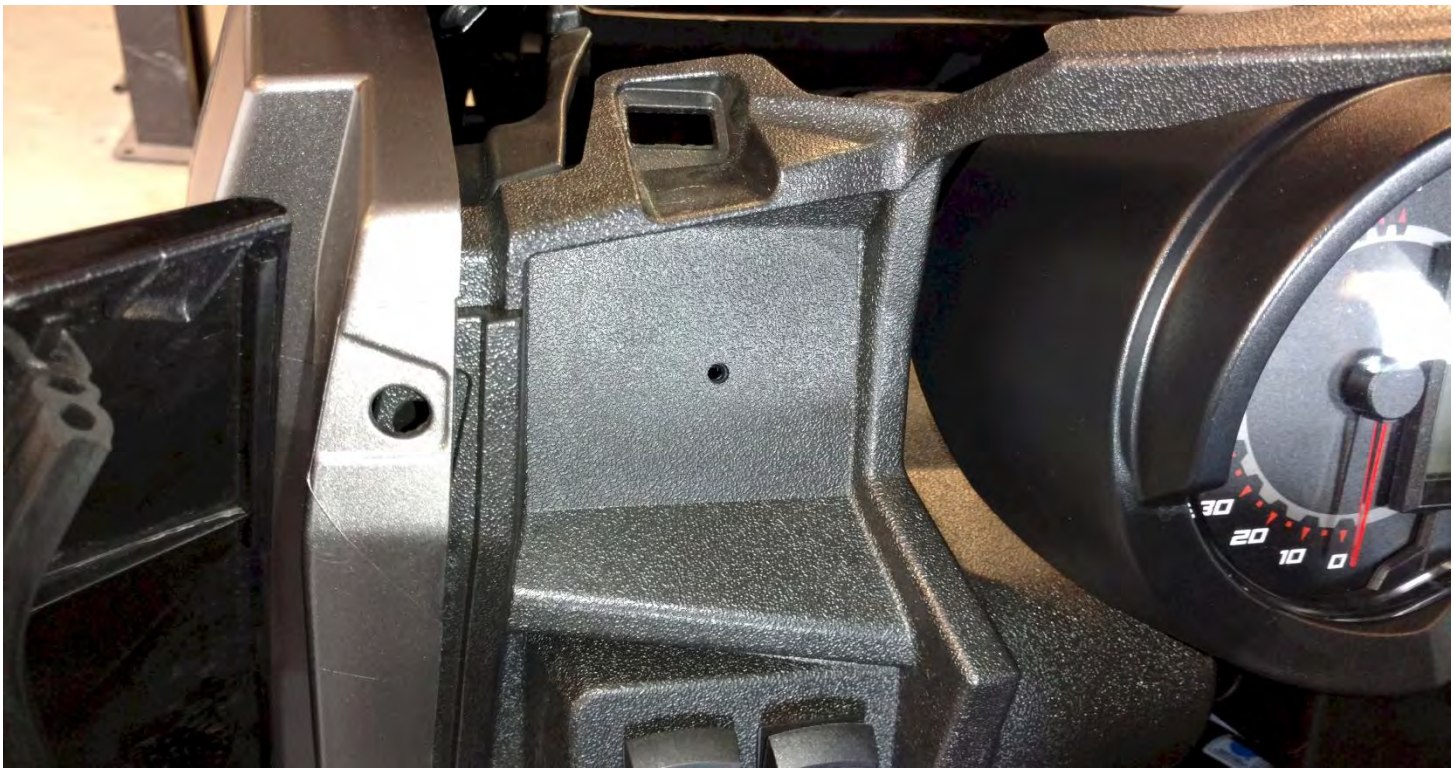


Figure 2a

Figure 2b

Figure 2c

Figure 3a

Figure 3b

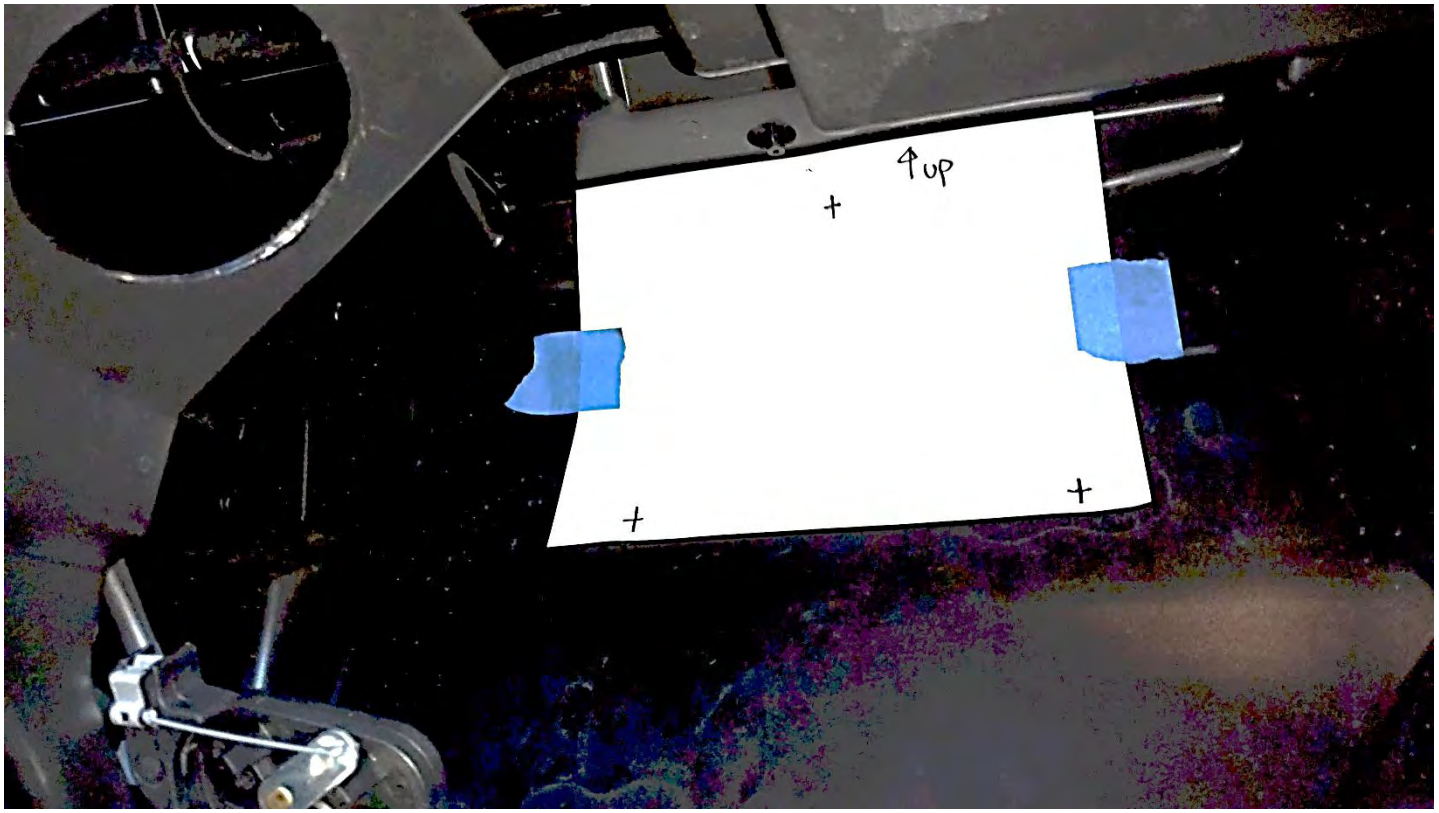


Figure 4a

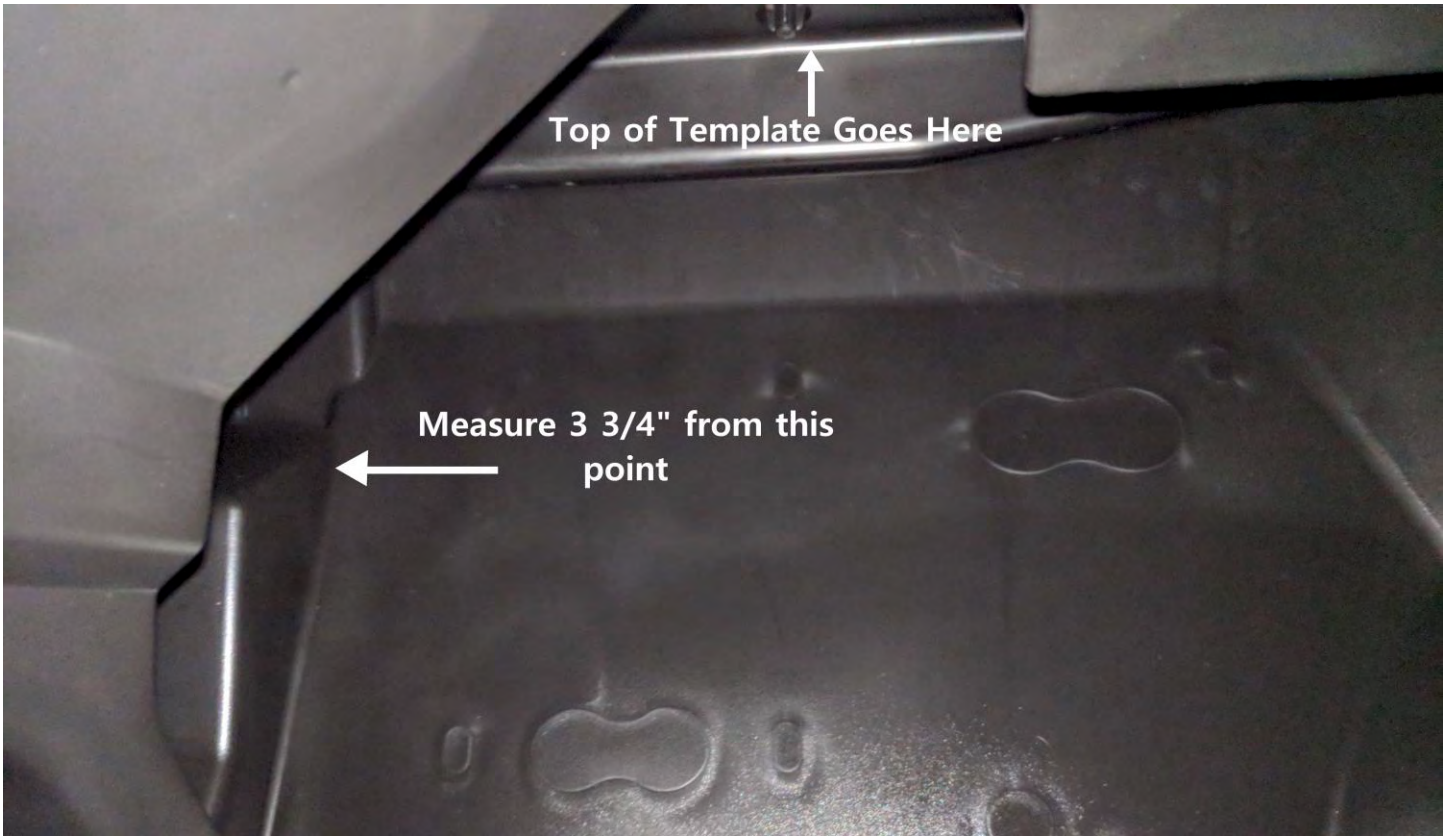


Figure 4b

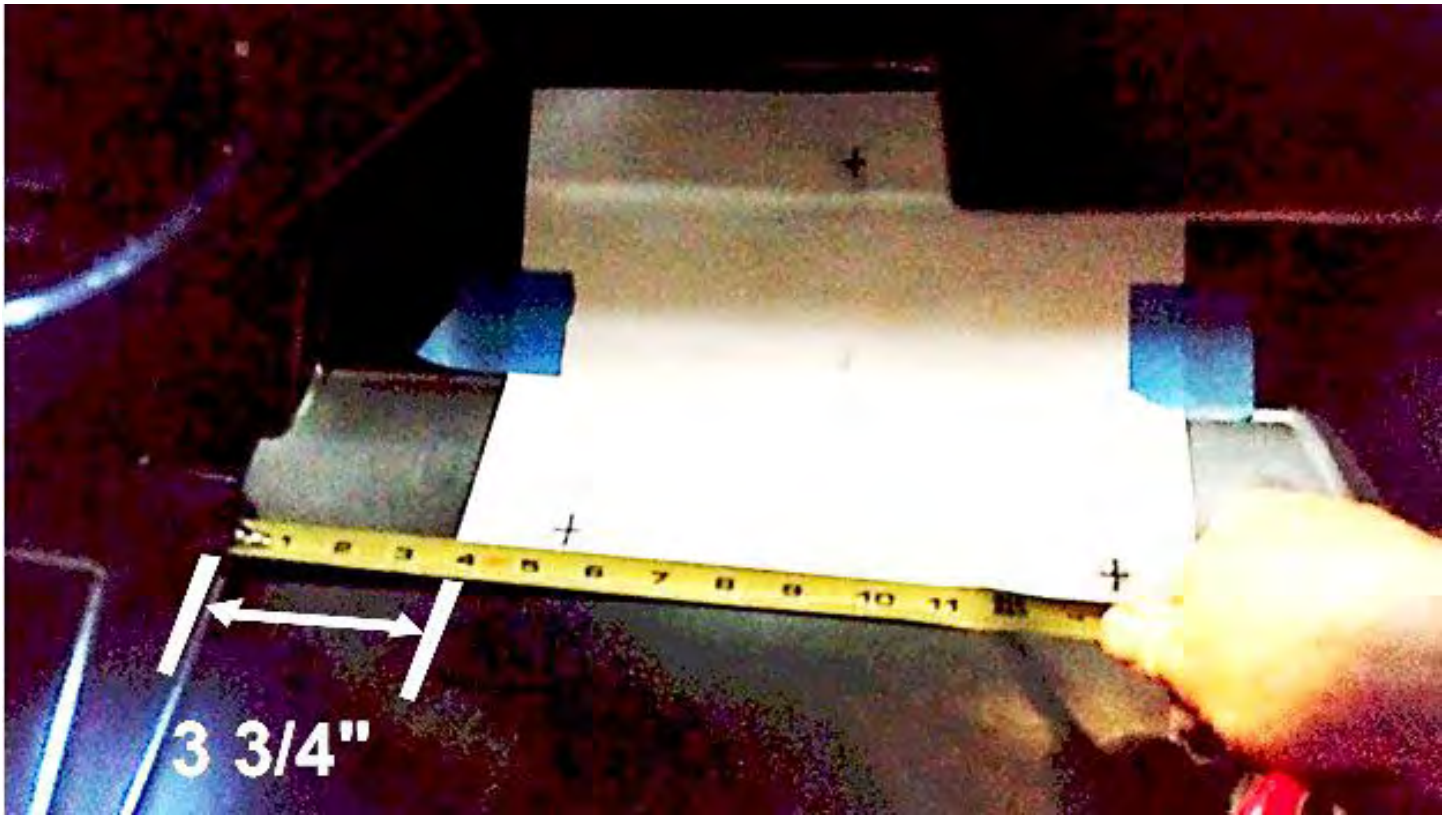


Figure 4c

Figure 5

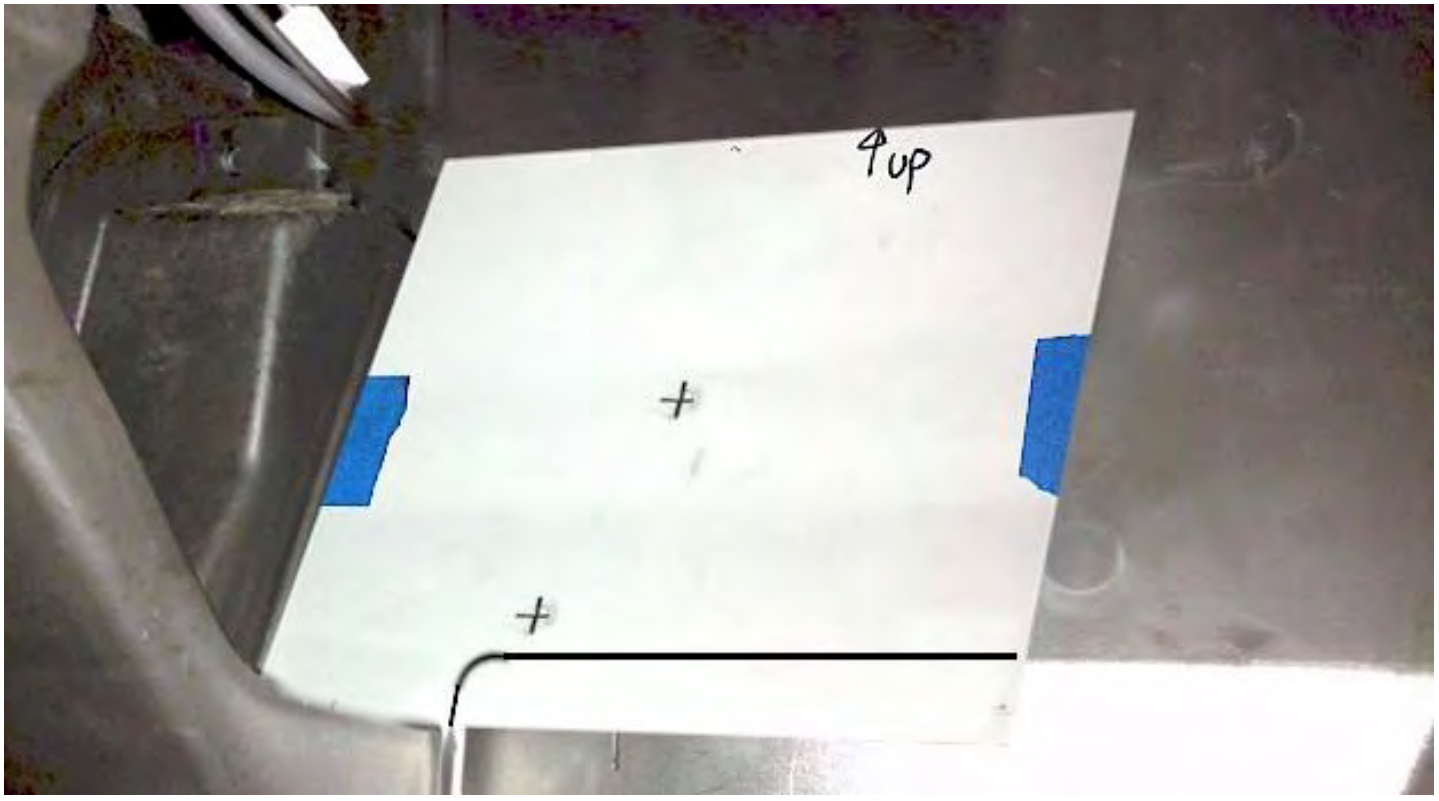


Figure 6

Figure 7a

Figure 7b

Figure 8

Figure 9

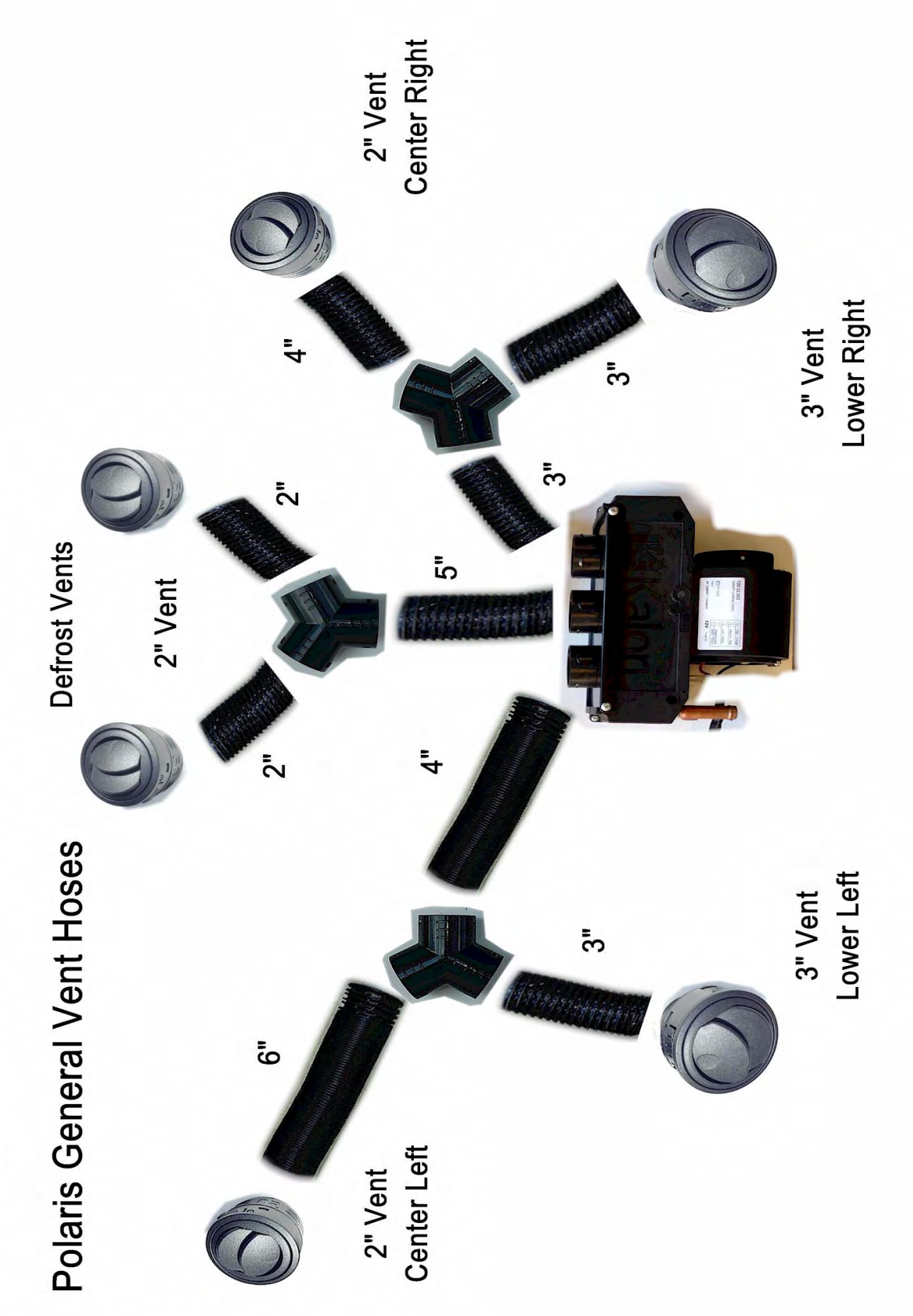

Polaris General Vent Hoses
Defrost Vents
2" Vent
Center Left
2" Vent
Center Right
3" Vent
Lower Left
3" Vent
Lower Right
6"
2"
2"
4"
5"
4"
3"
3"

Figure 10

Figure 11

Figure 12

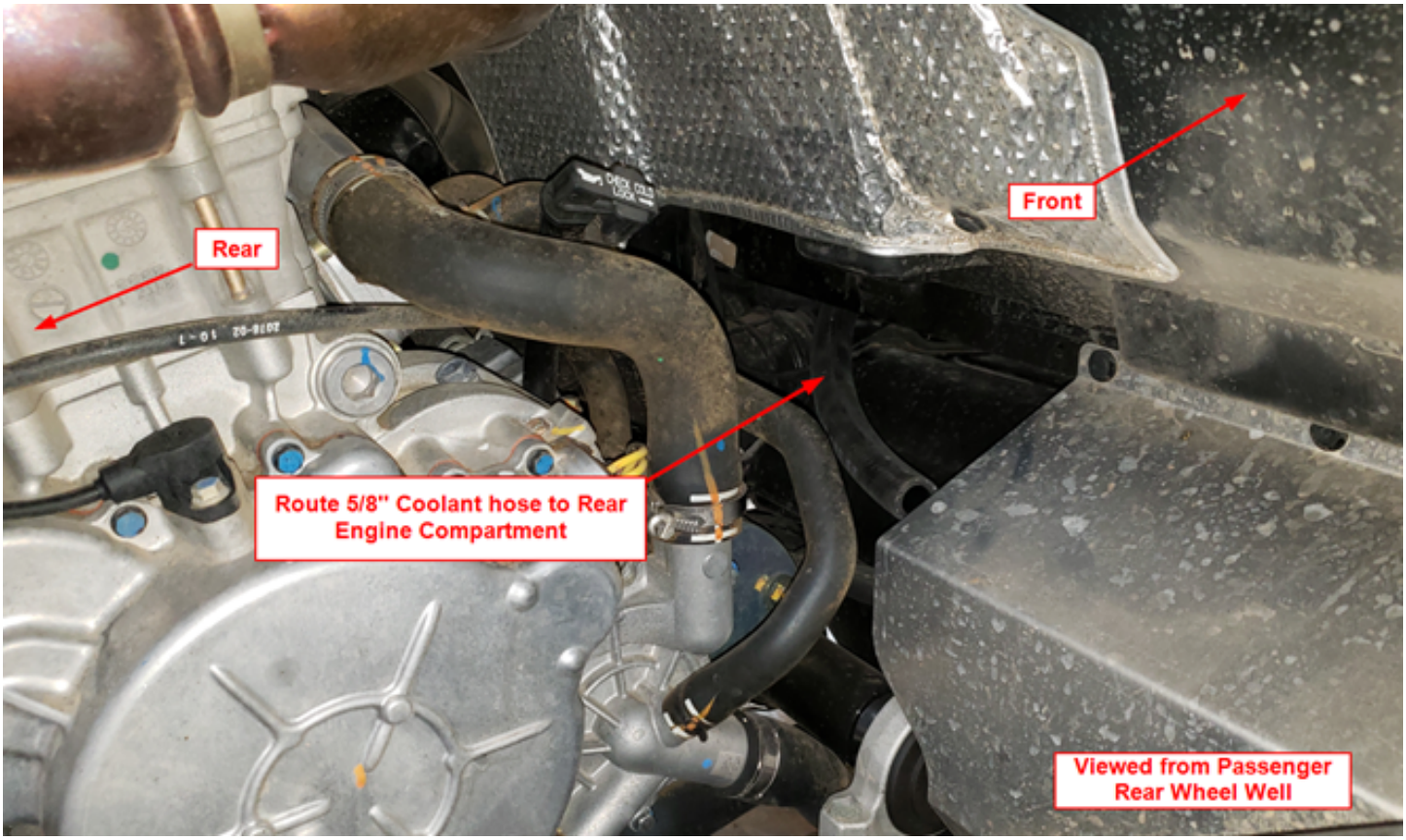


Figure 13

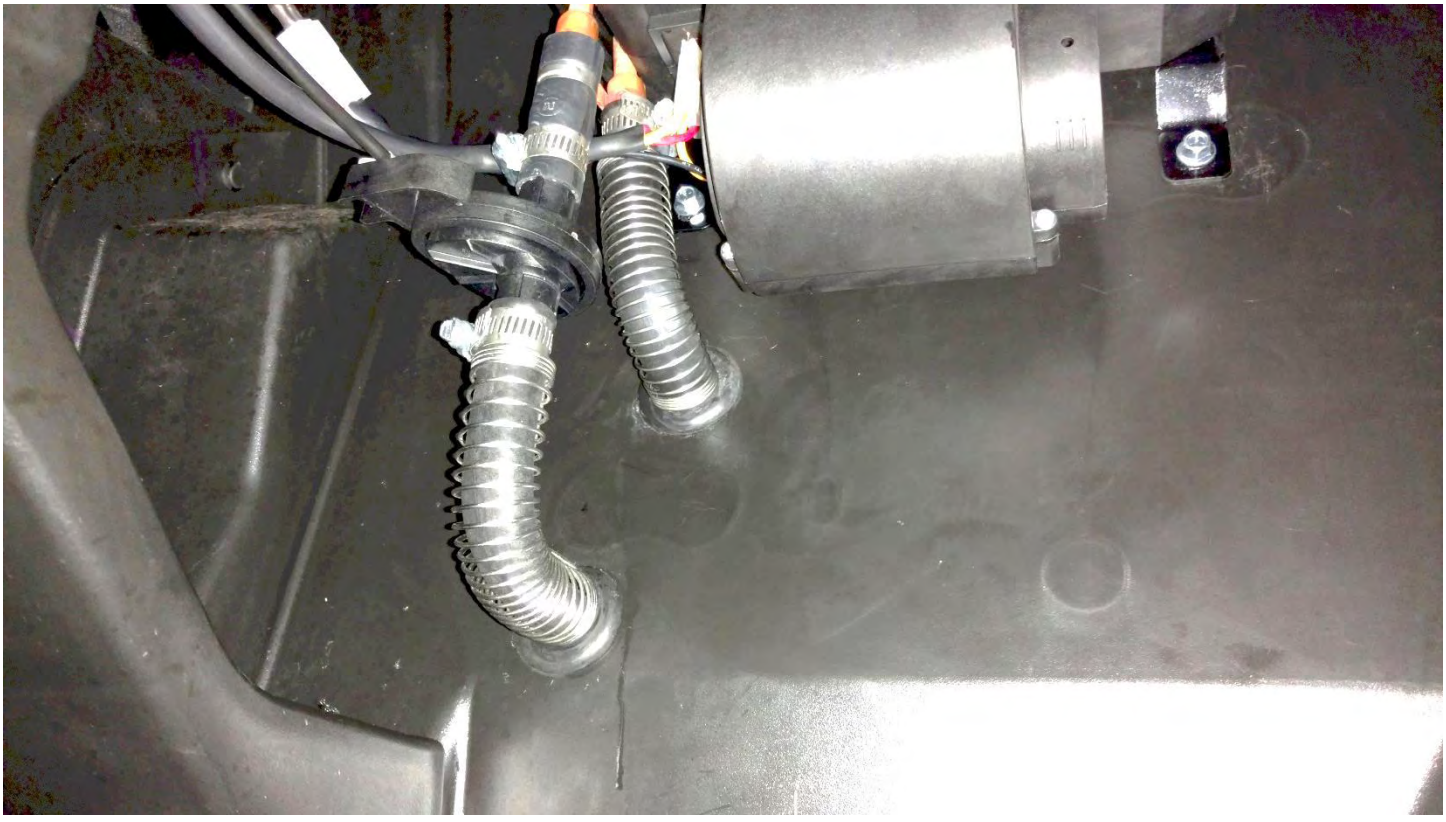


Figure 14

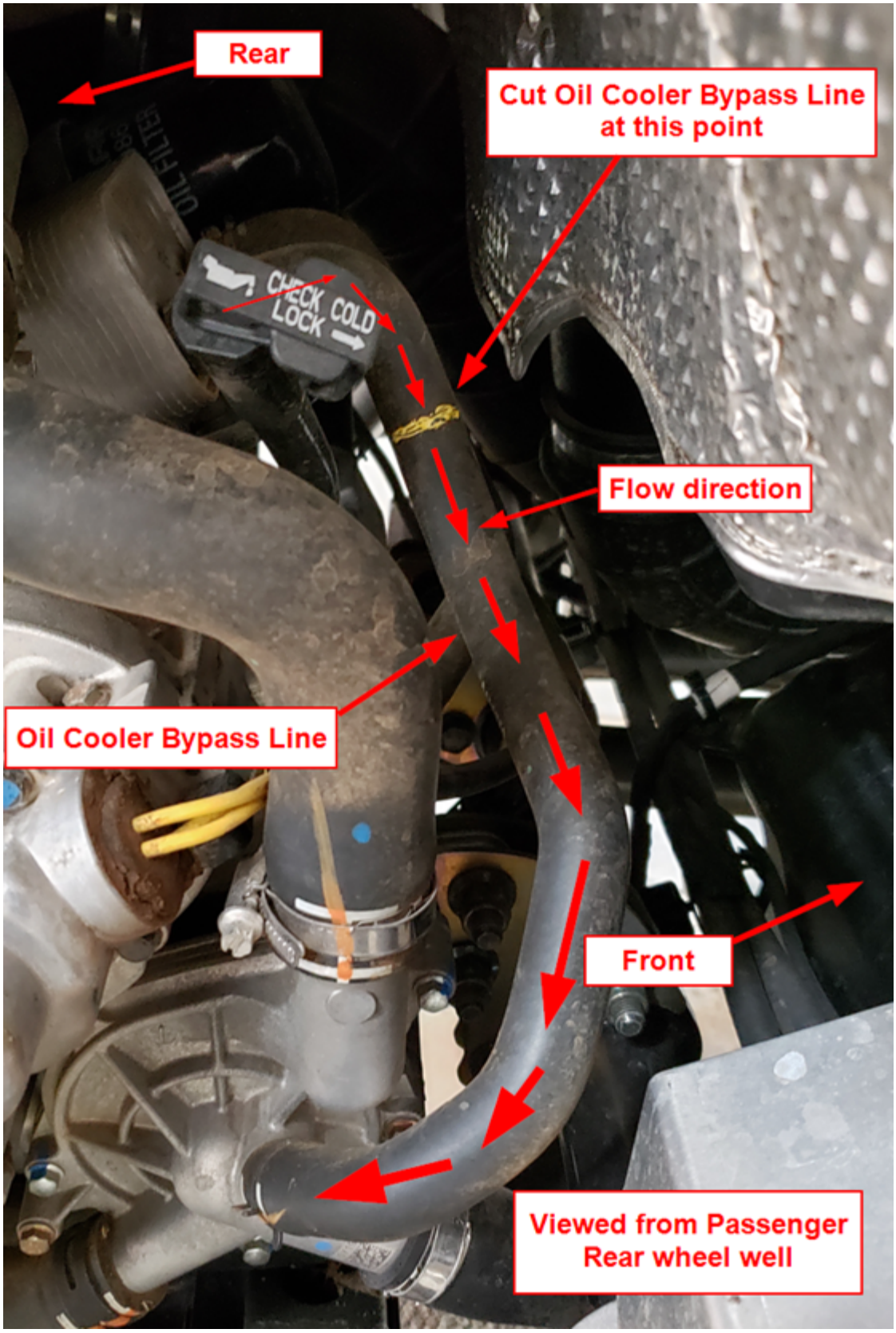

Rear
Cut Oil Cooler Bypass Line at this point
Flow direction
Oil Cooler Bypass Line
Front
Viewed from Passenger Rear wheel well

Figure 15

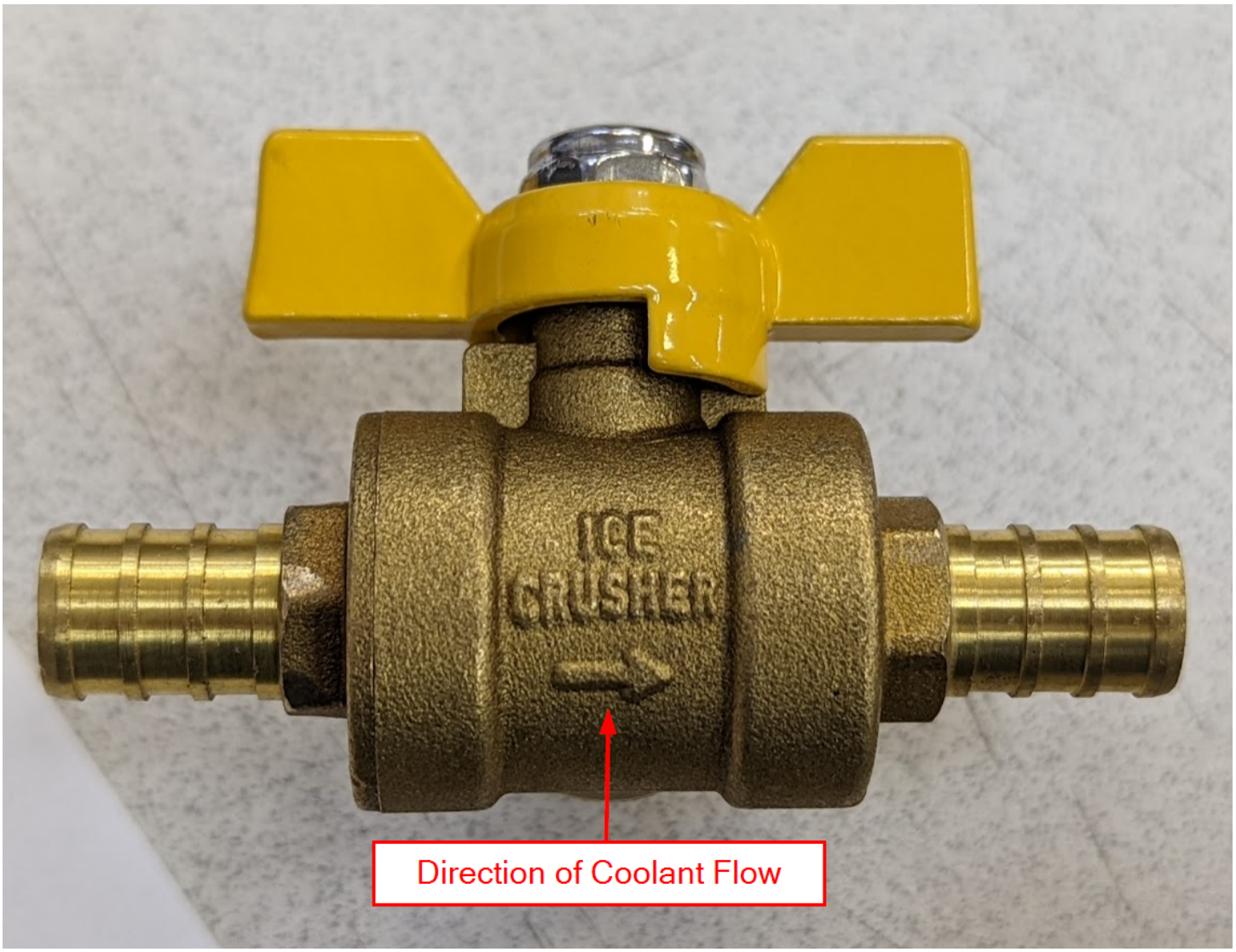


Figure 15b

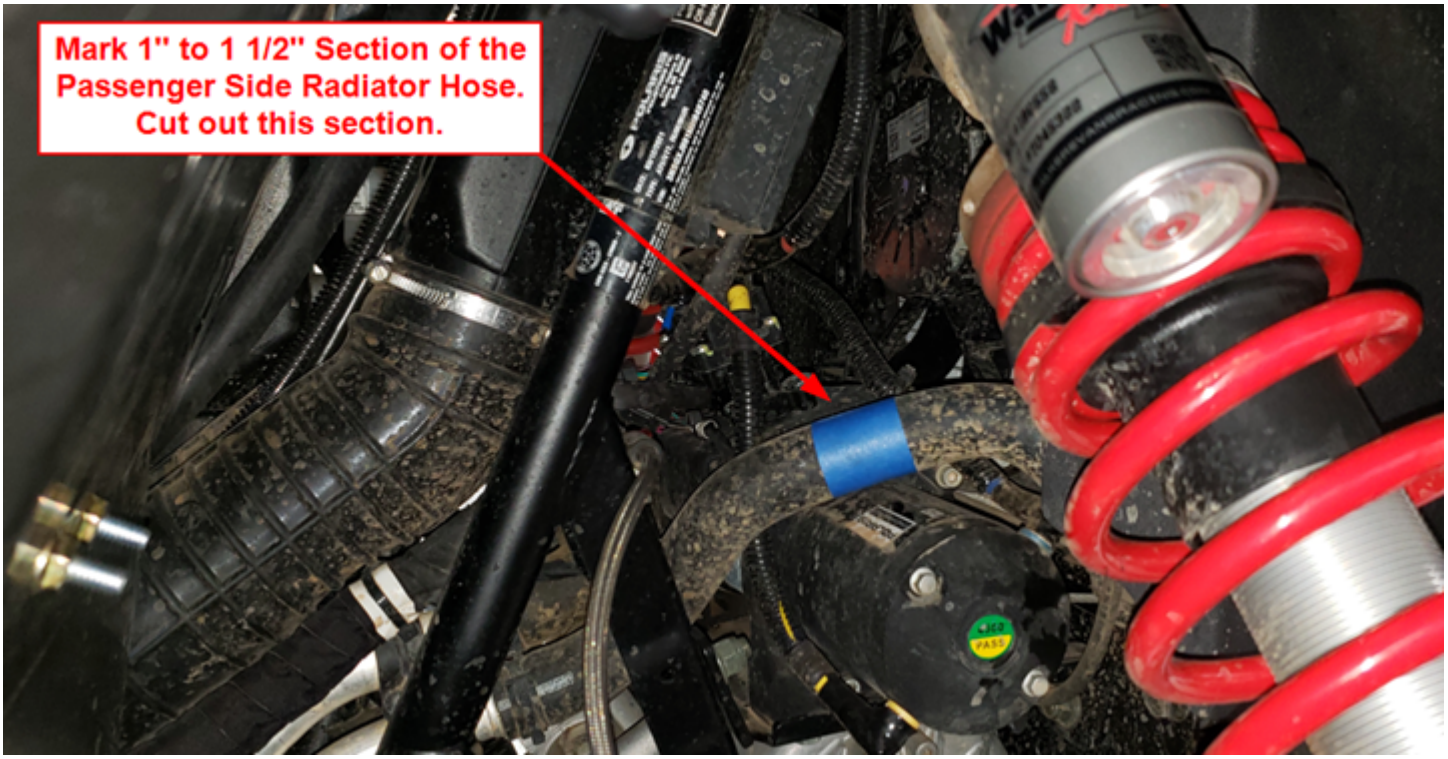


Figure 16a

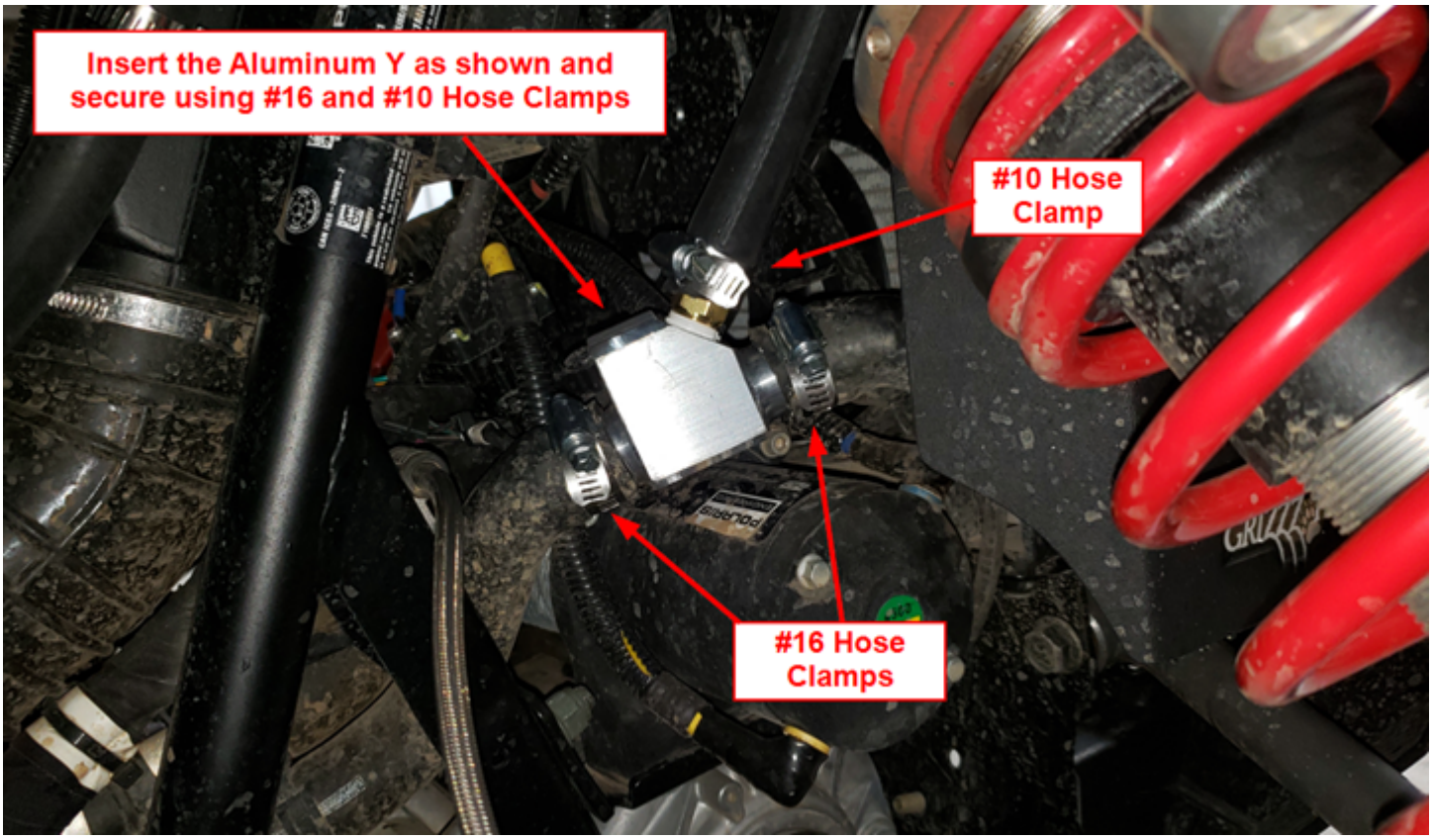


Figure 16b

HEATER WARRANTY – utvheaters.com and couppersproducts.com

***Couper's Products/Ice Crusher Heaters** 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.

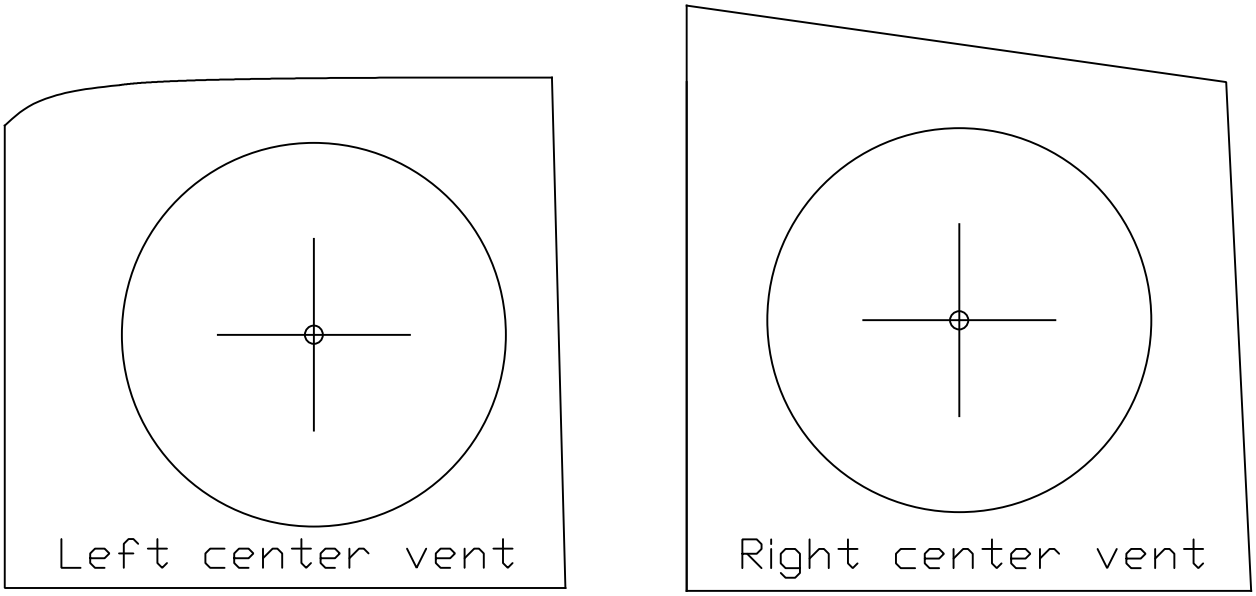
This warranty is Couper's Products only express warranty of this product. We reserve the right to make changes to products and policy that are in the best interest of Couper's Products. No implied warranty shall extend beyond One (1) or Three (3) year period from the date of the original consumer (end 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

Center Vents Template as shown in Figure 2a and 2b



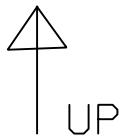
Mark hole centers
and drill hole with
55mm hole saw

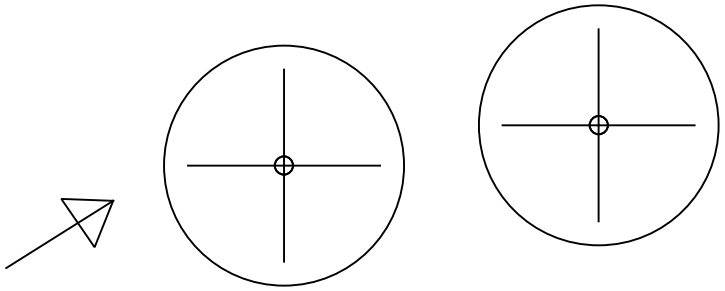
Please note: Before drilling any holes check area behind firewall/dash panels to make sure no damage or interference with equipment will occur by drilling holes and fitting of vents.

Heater Hose Hole Template as shown in Figure 6

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.

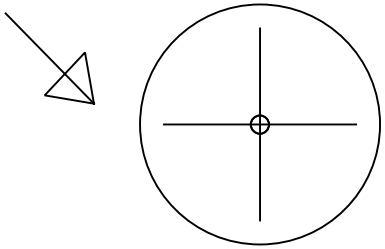
Align this edge with center firewall moulding



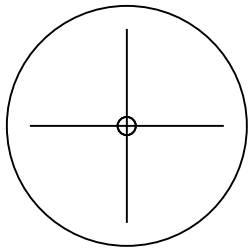


With Heat Conrol
Upper Hose Hole

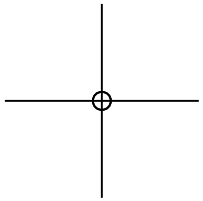
Non Heat Conrol
Hose Holes



Mark hole center
and drill hole with
1 ¼" hole saw



With Heat Conrol
Lower Hose Hole



Align this edge with upper firewall moulding

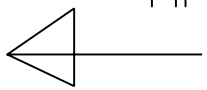
Mark hole center and drill hole with 5/16 drill bit

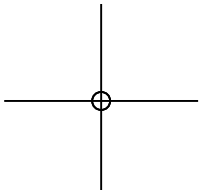
Main Heater Mounting Hole Template as shown in Figures 4a and 4b

2020.08.27

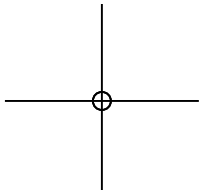
Please note: Before drilling any holes check area behind firewall/dash panels to make sure no damage or interference with equipment will occur by drilling holes and fitting of vents.

Measure from this edge 3 ¾" to center moulding of firewall

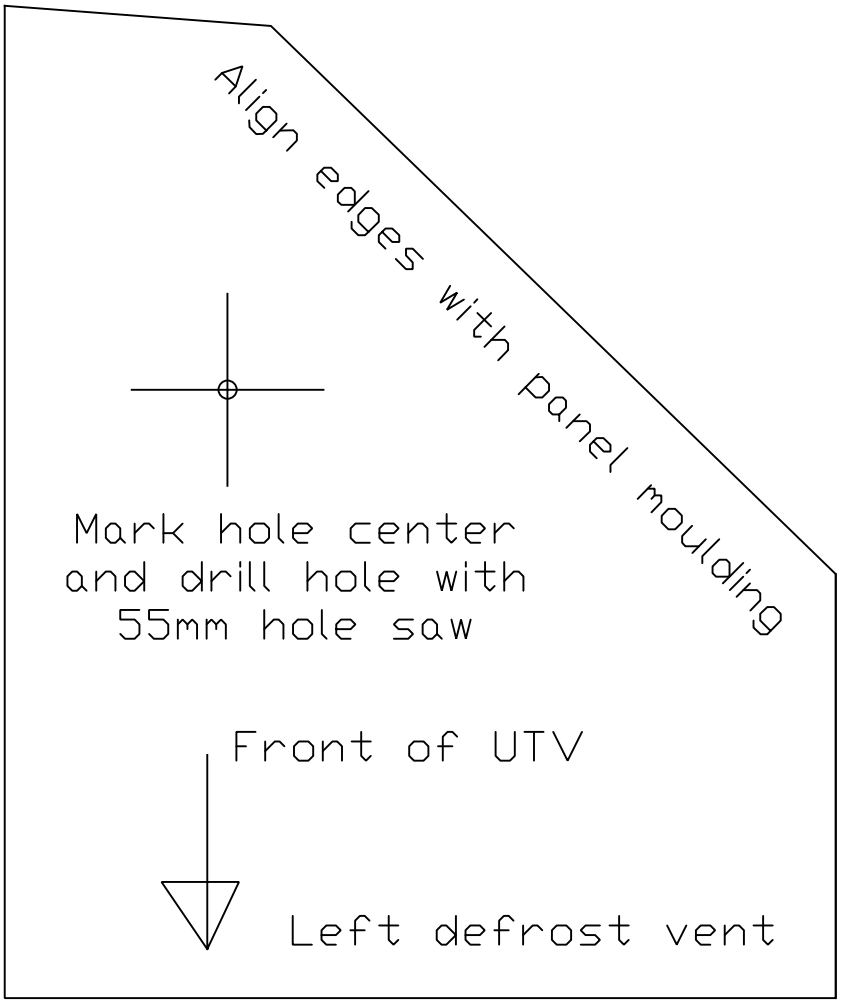




Mark hole centers and drill hole with 5/16 drill bit

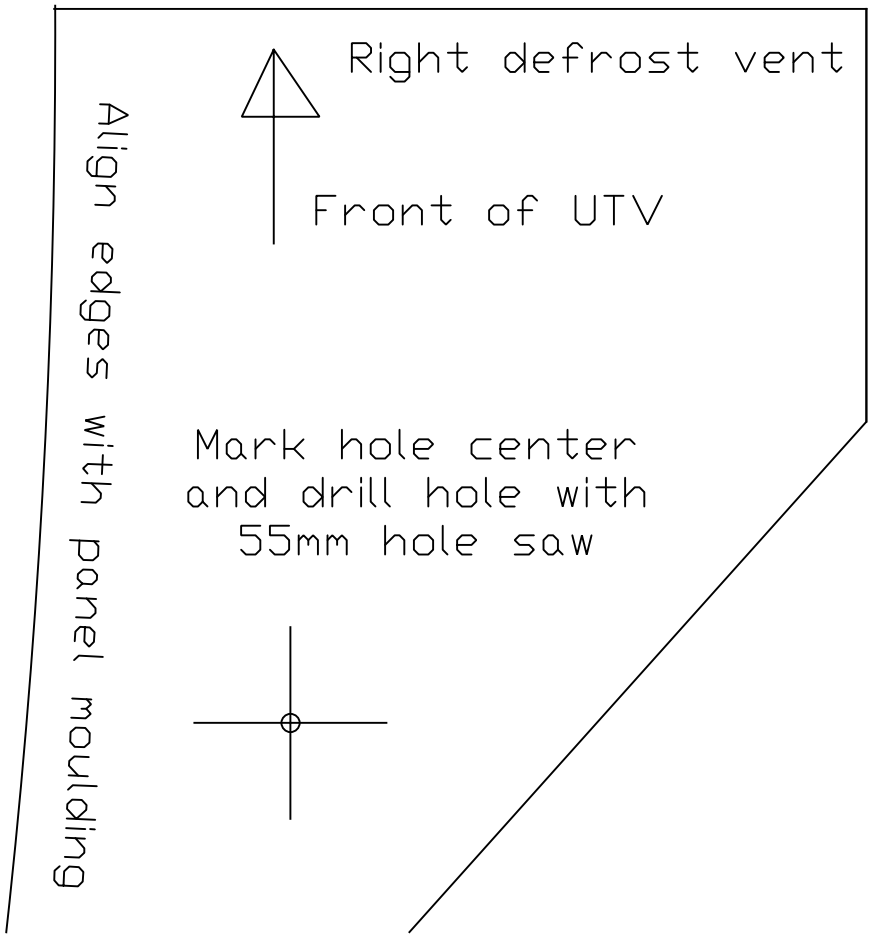


Left Defrost Vent Template as shown in Figure 2c



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.

Right Defrost Vent Template as shown in Figure 2c

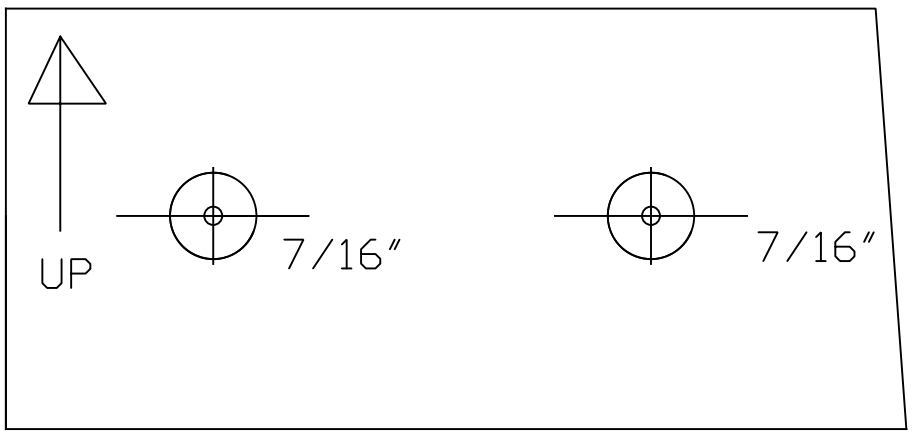


Please note: Before drilling any holes check area behind firewall/dash panels to make sure no damage or interference with equipment will occur by drilling holes and fitting of vents.

Switch/Heat Control Template as shown in Figure 5

Note: Delete heat control mounting holes if not supplied with heater kit

Mark hole center and drill holes as stated



Align edges with panel moulding

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.