

ICE CRUSHER HEATERS

Polaris RZR Pro XP ICCH-C-UD-POLRZRPRO

<p>1x 1 1/4" Hole Saw 1x 50mm Hole Saw 1x Hole Saw Arbor 2x #16 Hose Clamp</p>	 <p>235 236 233</p>	
<p>6x #10 Hose Clamp</p>	 <p>226 228</p>	 <p>213-WC</p>
<p>2x #6 Hose Clamp</p>	 <p>231</p>	<p>Heater Wiring Harness w/ 2 Pin Connector</p>
<p>2x 1 1/4" Grommet</p>	 <p>221</p>	
<p>1x 1" Brass Y</p>	 <p>243</p>	
<p>1x 3 Way Ball Valve</p>	 <p>246</p>	 <p>474</p>
<p>1x - Blower Switch</p>	 <p>333</p>	<p>Polaris Pigtail</p>
<p>1x - Blower Switch Nut</p>	 <p>345</p>	 <p>214</p>
<p>1x - #2 Knob</p>	 <p>331</p>	<p>30x - 11" Zip Ties</p>
<p>2x - 5/16" x 5" Carriage Bolt</p>	 <p>314</p>	
<p>2x - 5/16" Serrated Flange Nuts</p>	 <p>421</p>	
<p>1x - 1035 Red Plate</p>	 <p>1035 1057</p>	
<p>1x - 1057 Black Plate</p>		
<p>1x - Plastic 90 Degree Fittings</p>	 <p>321</p>	
<p>6x - 1/4" x 1" Serrated Flange Bolts</p>	 <p>312</p>	
<p>6x - 1/4" Serrated Flange Nuts</p>	 <p>420</p>	



505

38" - 2" Duct Hose



620

1x Standard Heater

601

Fan Grill Cover



Plastic Face Plate With Ports

1005P



503

3 x 2" Plastic Y's



501

6 x 2" Vents

504

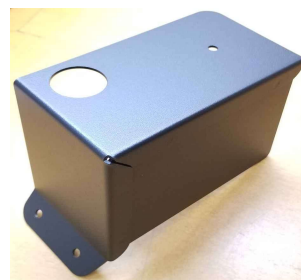


15' 5/8" Hose (2 Seat)
18' 5/8" Hose (4 Seat)



1x #1118 Main Heater Bracket

1118



1x #1119 Hose Bracket

1119

Polaris RZR Pro XP Ice Crusher Heater



Please read all instructions before beginning installation. It is easiest to physically split the instructions in two halves, one the text portion and the other the picture portion. It makes referring back and forth between the two much simpler.

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.

1. Preparation

- a. Remove optional windshield, driver side door and passenger side door.
- b. Disconnect the negative battery terminal and secure the cable away from the terminal.
- c. Remove the center dash storage compartment and set on top of the top dash. This area will be used to gain access to duct hoses later.

2. Panel Modifications

Important Note & Tip for all hole saw holes: Do not allow the drill and hole saw to plunge through the plastic. Use a knife to remove any burrs created by the hole saw.

- a. Using the Defrost Template, cut out the two templates and position them as shown in Figure 1. Transfer the hole centers to the plastic dash and drill defrost vent holes using the included 54mm Hole Saw and Pilot Bit. Deburr as necessary.
- b. Position the Switch Location Template and the 2" Vent Template in the areas shown in Figure 2. Transfer the hole centers of each. Drill the Switch mounting hole location with a 7/16" drill bit. Drill the 2" Vent with a 54mm Hole Saw and Pilot Bit.
- c. Position the 2" Vent Template in the two locations shown in Figure 3. Transfer the hole centers and drill using the 54mm Hole Saw.
- d. Position the Drive Side Center Tunnel Template as shown in Figure 4. Transfer the hole center and drill using the 54mm Hole Saw.

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- e. Remove the Passenger's Center Tunnel side plate. This can require removing the rear seats, loosening panels from back to front in order to release the gear shift cover plate, which then allows the side plate to be removed. Position the Passenger Center Tunnel Side Plate Template as shown in Figure 5, and trim as shown.
- f. Position the Heater Hose Template along the Passenger side firewall as shown in Figure 6. Transfer the hole center and drill using the 1 ¼" Hole Saw and Pilot Bit. Insert one of the 1 ¼" Rubber Grommets into the Firewall hole.
- g. Position the Main Heater Bracket against the firewall as shown in Figure 7, mark the three hole centers and drill using a ¼" Drill Bit.
- h. Position the Lower Heater Hose Bracket as shown in Figure 8. Press the bracket against the vertical side wall and angled face of the passenger foot brace. Mark the three hole locations. Drill three ¼" Holes.
- i. Use the Lower Heater Hose Template and align it to the bottom two ¼" holes drilled in the previous step. Mark the hole center for a 1 ¼" Hole and drill using the 1 ¼" Hole Saw. It will be necessary to use a razer blade to trim the hole into a slight oval shape so the 5/8" Coolant Hose can pass through the opening.

3. Heater Unit Preparation and Duct Hose Hookup

- a. Mount the Main Heater Bracket shown in Figure 7 to the Firewall using the included ¼" x ¾" Serrated Flange Bolts and ¼" Serrated Flange Nuts.
- b. Position the Heater Hose Template along the Firewall as shown in Figure 6. Transfer the hole center and drill using the 1 ¼" Hole Saw and Pilot Bit. Insert one of the 1 ¼" Rubber Grommets into the Firewall hole.
- c. Using Figure 10 as a guide, cut duct hoses to length. **Important Note: Lengths shown are measured in a compressed state. Place a tape measure on a table, compress hoses tightly and measure according to the diagram shown. Cut the metal core using wire cutters.**
- d. Assemble the hoses to the 2" Plastic Y's and secure using the included zip ties.
- e. Attach the hose assemblies to the 50mm Ports on the Heater assembly and position the heater against the Main Heater Bracket. Using the 5/16" x 5" Carriage bolts and 5/16" Serrate Flange Nuts, attach the assembly to the Main Heater Bracket as shown in Figure 11.
- f. Route the left most hose assembly toward the Center Tunnel area, route the center most hose assembly toward the Defrost Duct holes, route the right most hose assembly to hang in front of the heater.
- g. Route each hose through it's intended vent hole and attach the hose to a 2" Vent. Secure the hose with a zip tie. Each vent has a small notch molded into it to keep it from spinning when pressed into the mounting hole. Use a razor blade to create a small 'V' shape in the plastic and insert the 2" Vent with the plastic notch aligned with the 'V' notch. Install all vents this way.

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4. Electrical Hookup

- a. Attach the White 4-Pin Connector to the 4-Pin Connector on the Heater Unit. Route the wire toward the Switch Hole Drilled next to the vehicle key. Connect the harness to the 3-Speed Fan Switch.
- b. Push the Switch shaft through the 7/16" Hole. Align the Red and Black Bezels with the flat notch on the switch, align to be square with the vehicle dash and secure using the low profile 7/16" Flat Nut. Tighten using a 9/16" Socket. Press the Switch Knob over the flat notch of the switch shaft.
- c. Route the Blue and Black wires up to the center storage cubby opening near the Polaris Pulse Connector System shown in Figure 13.
- d. Using the included Polaris Pulse Connector harness and Insulated Butt Splice Connectors, connect the Blue Wire to the Yellow wire on the Polaris Pulse Connector. Connect the Black wire from the harness to the Black with on the Polaris Pulse Connector. Use the remaining Butt Splice Connector to close off the end of the Red wire on the Polaris Pulse Connector. This wire is constant 12V power and is not used. Refer to Figure 14.
- e. Remove one of the Polaris Pulse Connector caps and install the connector. Turn accessory power on and test all three fan speeds work.

5. Heater Hose Routing and Plumbing

- a. Verify the black rubber shipping plugs in the copper heater core lines are removed.
- b. Cut 3' of 5/8" Heater Hose from the large spool of 5/8" Heater Hose.
- c. Insert the 3' piece of hose through the Rubber Grommet in the firewall from the Radiator side of the firewall. Use water & soap or windex to lubricate the hose slightly and allow it to pass through the grommet more easily. All the 3' piece of hose to stick through the firewall a few inches.
- d. Insert a #10 hose clamp over the 5/8" Heater Hose from the passenger side, insert a 90 Degree plastic fitting facing upward toward the heater core. Secure the 90 degree fitting using the #10 Hose Clamp.
- e. Measure the distance between the copper heater core line that is nearest the firewall and the 90 degree fitting. Cut a small piece of hose and insert it to connect the 90 degree fitting and copper heater line. Secure using #10 Hose Clamps.
- f. From the center tunnel opening on the Passenger side of the vehicle pass the remaining 5/8" Heater Hose up through the hole cut in the passenger foot brace.
- g. Insert the remaining 1 1/4" Rubber Grommet into the Lower Heater Hose Bracket, then route approximately 12" of 5/8" Heater Hose through the grommet. Position the bracket over the three 1/4" Holes drilled earlier and use the three 1/4" x 1" Serrated Flange Bolts and 1/4" Serrated Flange Nuts to secure the bracket in place as shown in Figure 15.
- h. Attach the 5/8" Heater Hose to the remaining Copper heater line. Secure using a #10 Hose Clamp.

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- i. Route the remaining hose through the center tunnel toward the passenger side of the engine bay. Zip tie the hose to the OEM coolant lines and avoid any moving or sharp components.
- j. Remove the rear seat back panel to expose the heat shield shown in Figure 16 and Figure 17. Remove the hardware shown to gain access to the engine cooling lines.
- m. Mark a 1"-1.5" section of the Oil Cooler Bypass line as shown Figure 18. Clamp off the upstream and downstream sections of the line if you have clamps, otherwise place a bucket under the identified area prior to cutting the hoses.
- n. Cut the 1"-1.5" section of hose and insert the 3-Way Ball Valve shown in Figure 19 into the Oil Cooler Bypass Hose with the arrow following the flow direction shown in Figure 19. Secure the valve with the supplied #10 Hose Clamps. Connect the 5/8" Heater hose, cut to length if necessary and secure with #10 Hose Clamps.
- o. At the front of the vehicle again mark a 1"-1.5" section of the main heater hose return line as shown Figure 20. Clamp off the upstream and downstream sections of the line if you have clamps, otherwise place a bucket under the identified area prior to cutting the hoses.
- p. Cut the 1"-1.5" section of hose and insert the 1" Brass Y in the orientation shown in Figure 20. Secure the 1" Hoses using #16 hose clamps. Loop the 3' piece of 5/8" Heater Hose and insert it over the 5/8" Brass Y Port. Secure using a #10 Hose Clamp.
- q. Just before the 3' piece of 5/8" Heater Hose goes through the fire wall, cut the hose and insert the included Plastic Shut Off Valve as shown Figure 21.

6. Reassembly

- a. Reassemble the heat shield and rear seat panels in reverse order.
- b. Reinstall the Passenger Side Center Tunnel Side Plate and route the 2" duct hose through opening that was created after trimming the plastic off.
- c. Reinstall center tunnel covers in reverse order.
- d. Secure duct hoses, wires and 5/8" Heater Hose as needed using the remaining zip ties.
- e. Reinstall the Center Cubby Storage Compartment.
- f. Reinstall doors, windshield and any other accessories removed.

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7. Coolant Bleeding

- a. Refill the reservoir at the rear of the vehicle as shown in Figure 22 using manufacturer approved coolant. Start the vehicle and run at a fast idle. Check for leaks and do not allow the vehicle to exceed 220 degree Fahrenheit.
- b. Allow vehicle to cool and recheck cooling system level, 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, fill as required.
- c. 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 the 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.
- d. The 3-Way Ball valve is used as a shut off valve to the heater during the warmer months. Turn the valve so that the handle aligns with the Oil Cooler Bypass line to redirect coolant back to the engine. In the colder months, turn the valve perpendicular to the Oil Cooler Bypss line to direct hot coolant to the heater unit.

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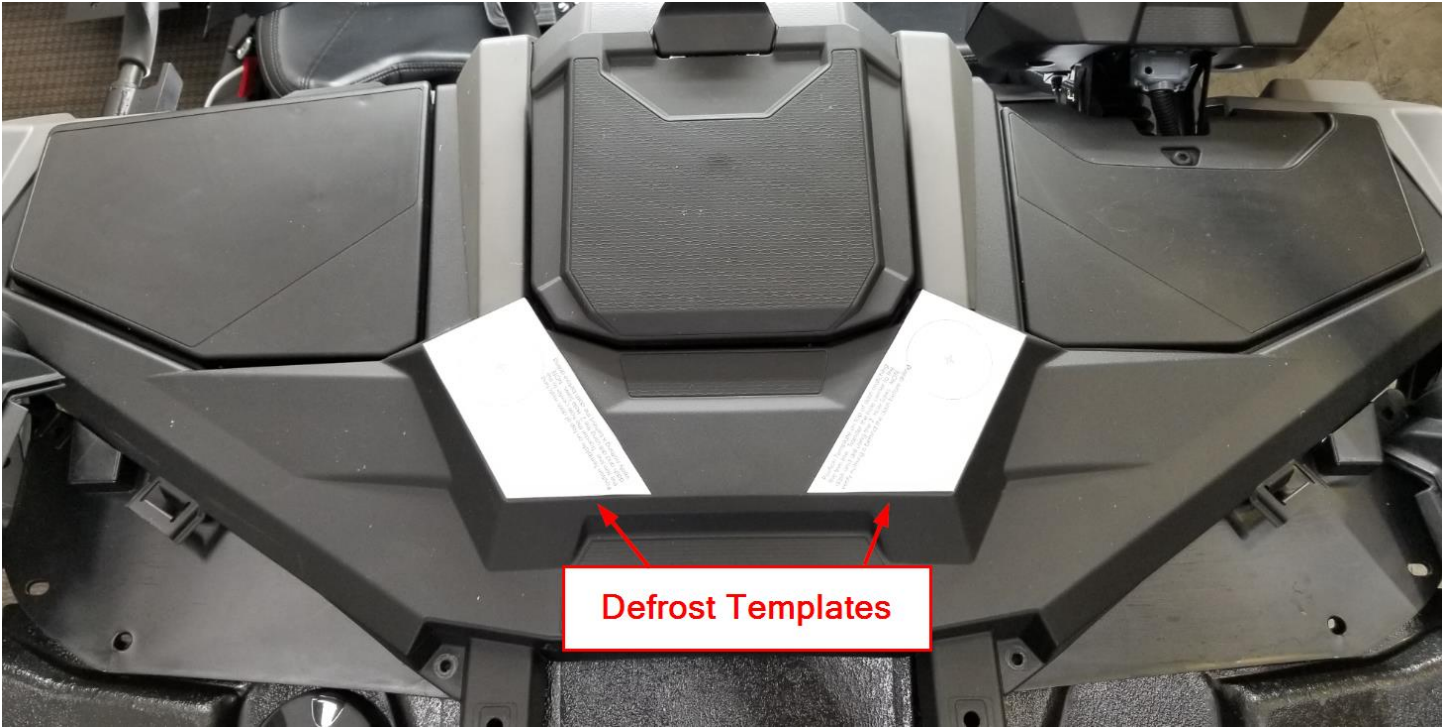


Figure 1

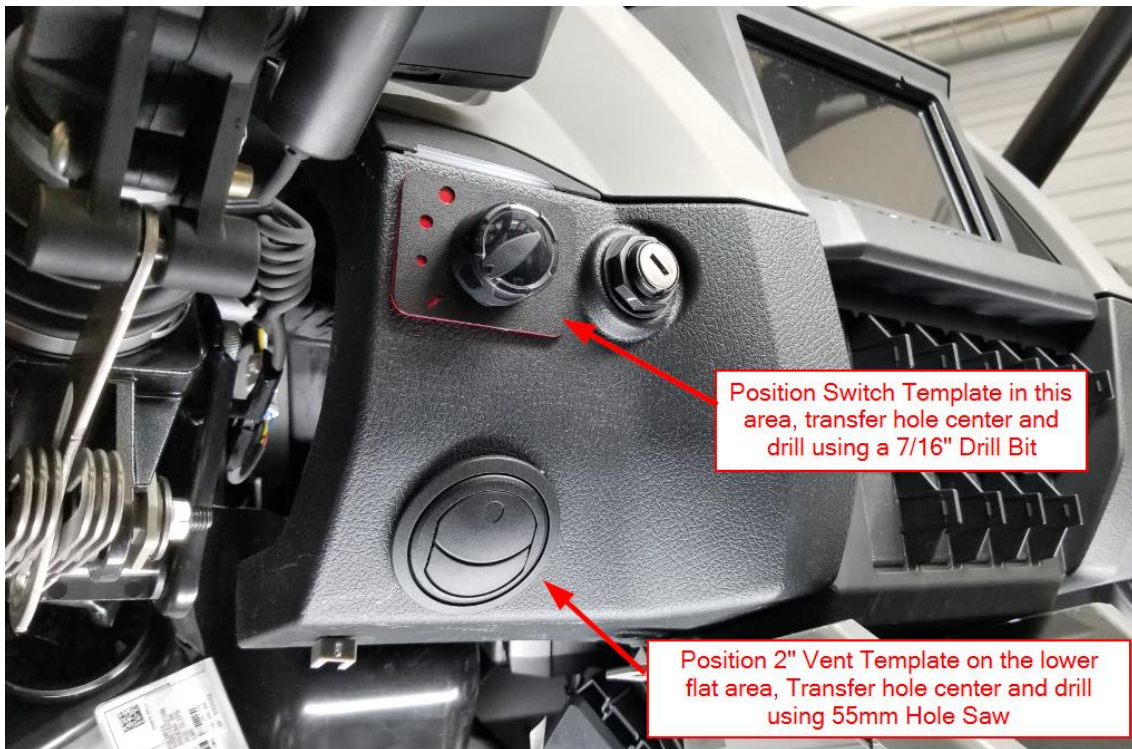


Figure 2

Polaris RZR Pro XP Ice Crusher Heater



Figure 3

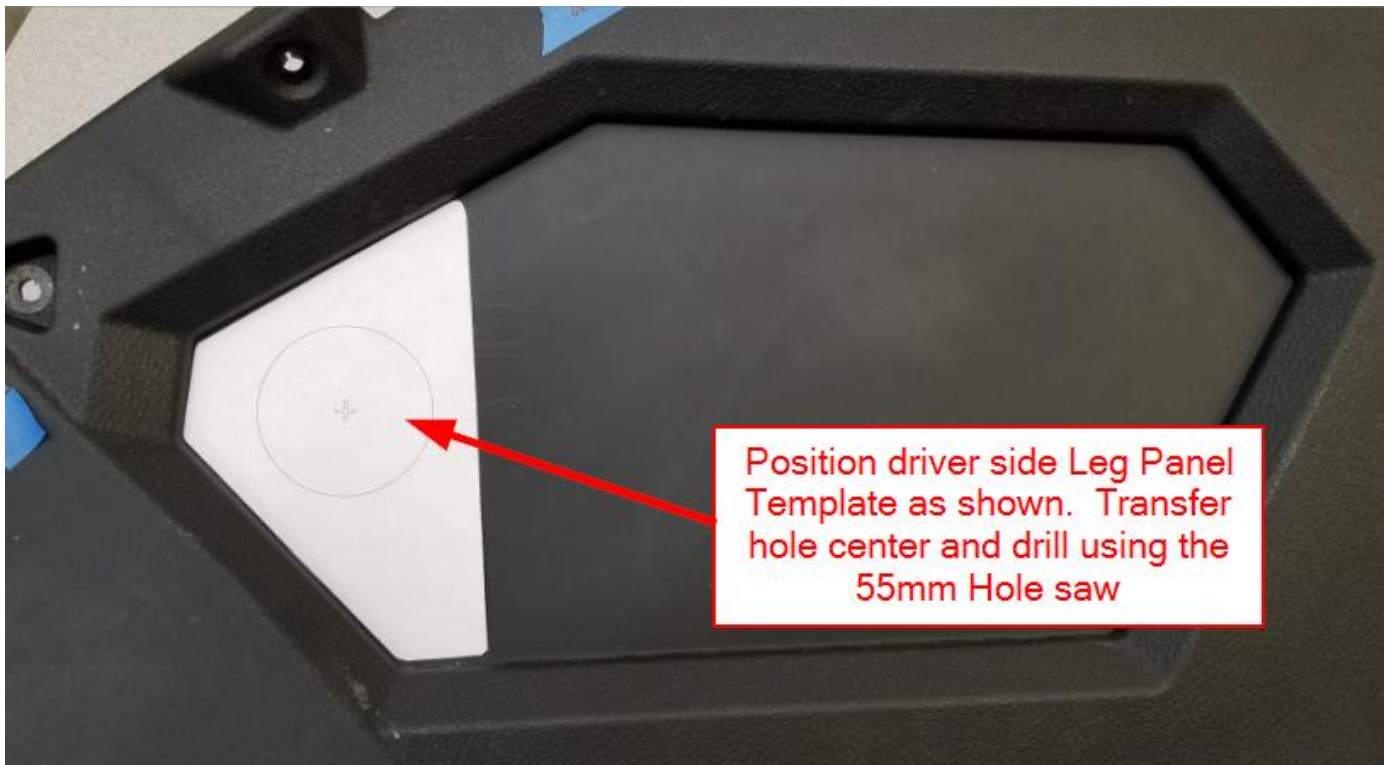


Figure 4

Polaris RZR Pro XP Ice Crusher Heater

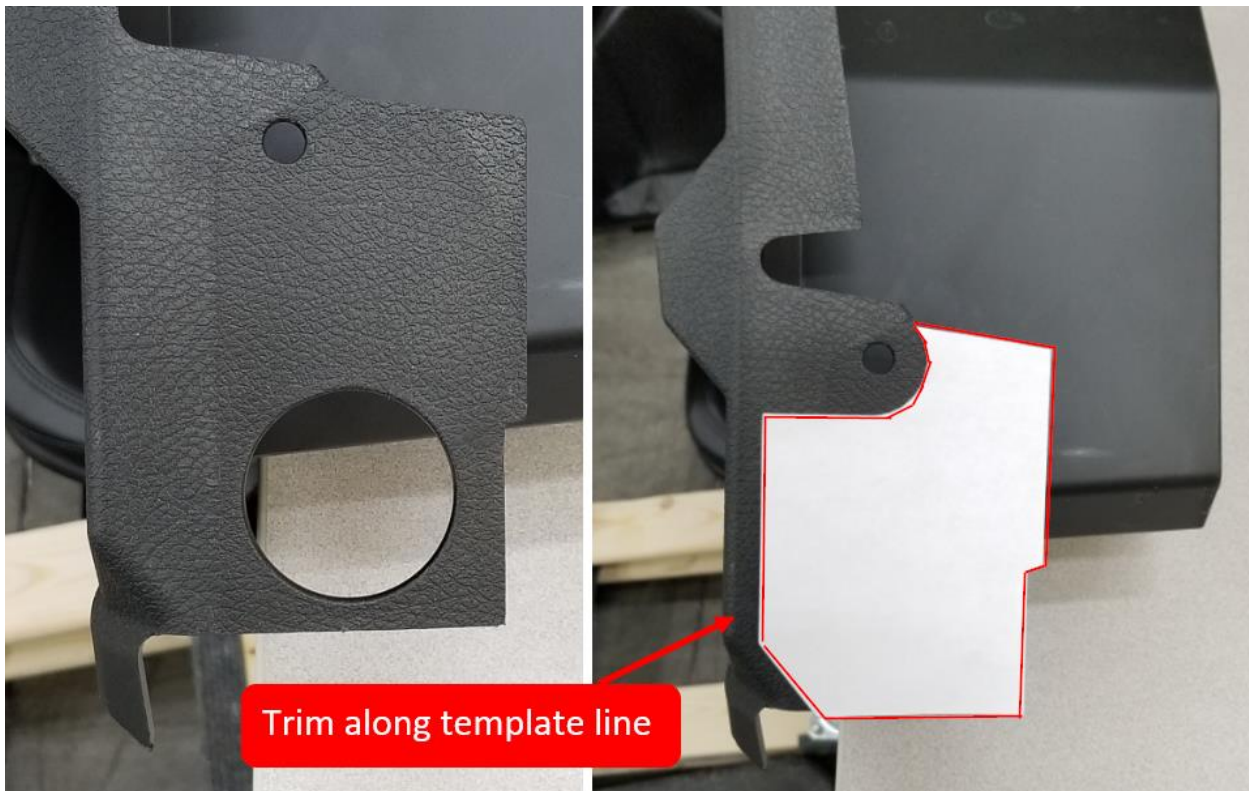


Figure 5

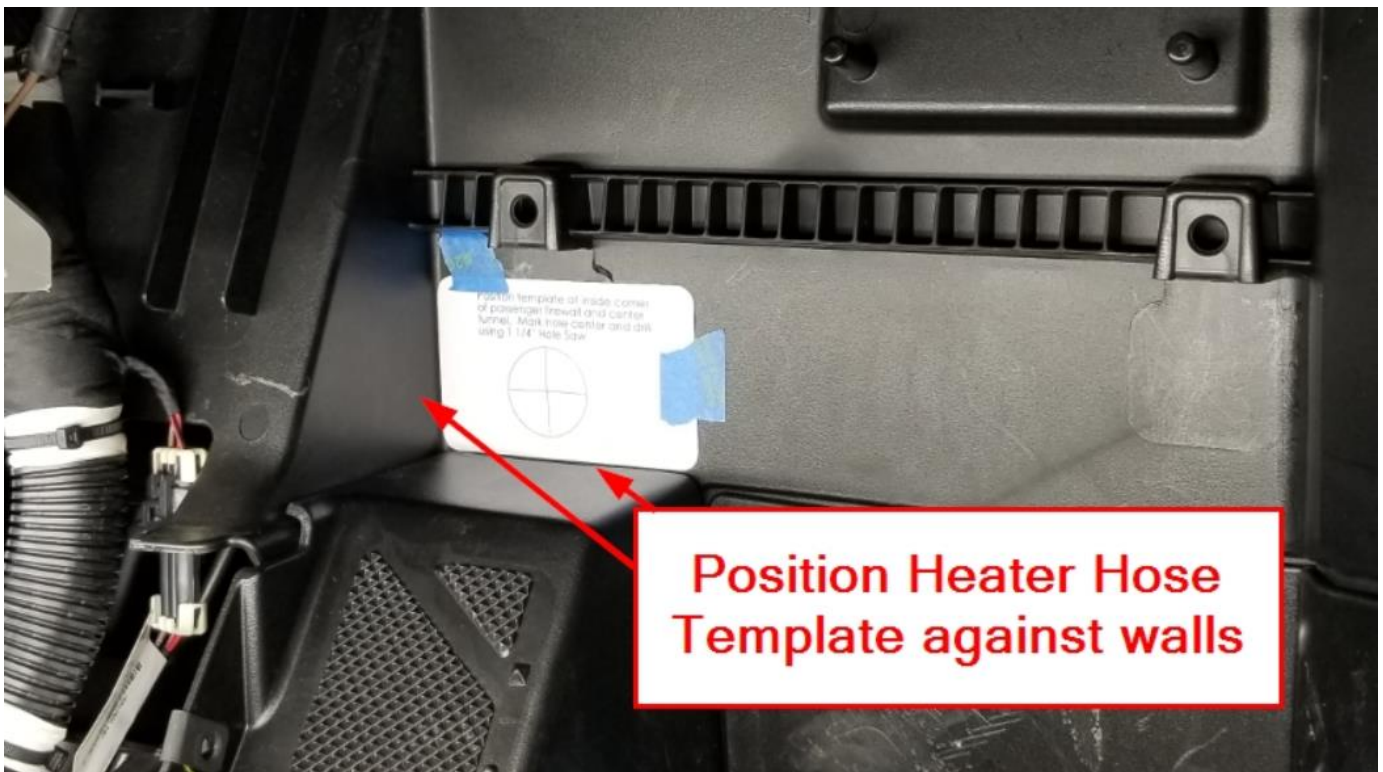


Figure 6

Polaris RZR Pro XP Ice Crusher Heater

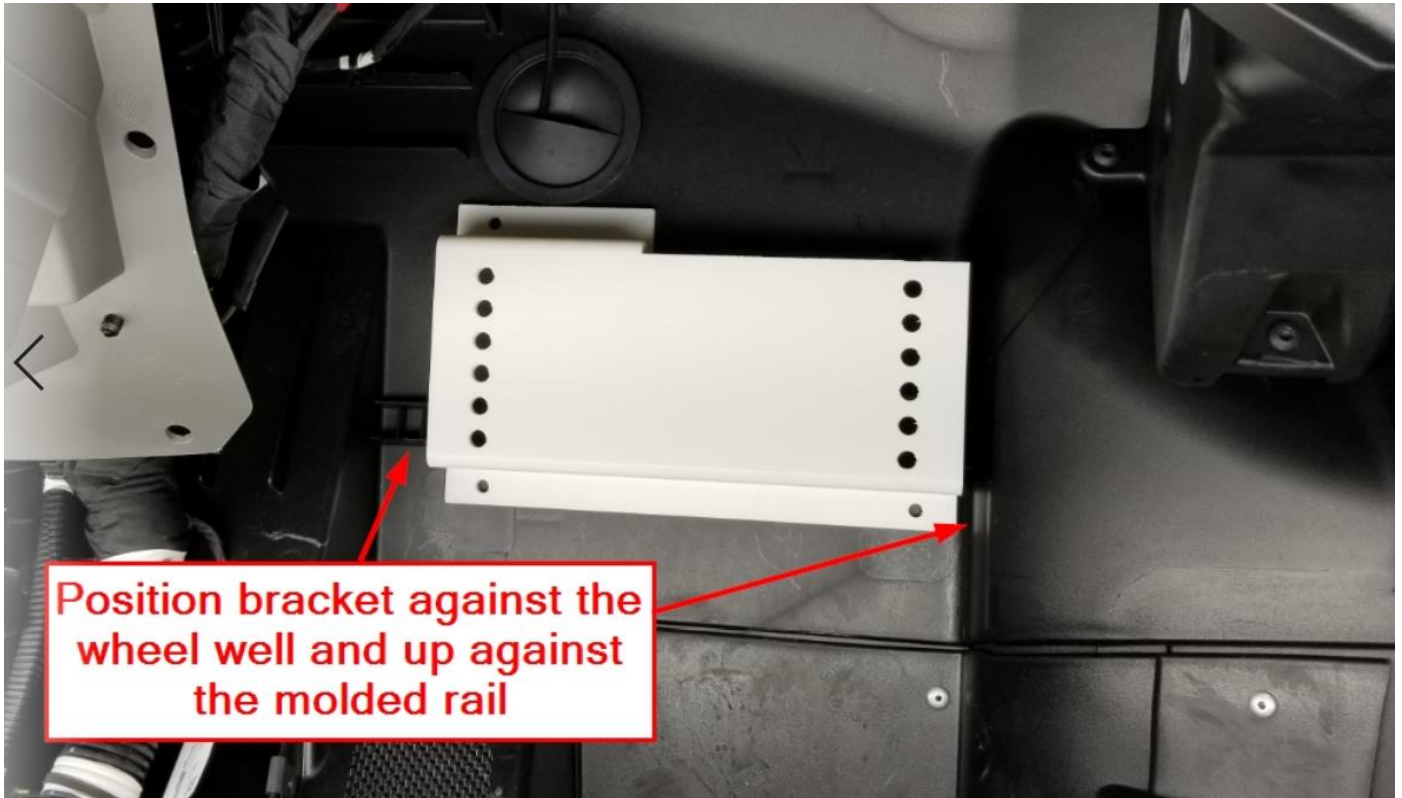


Figure 7

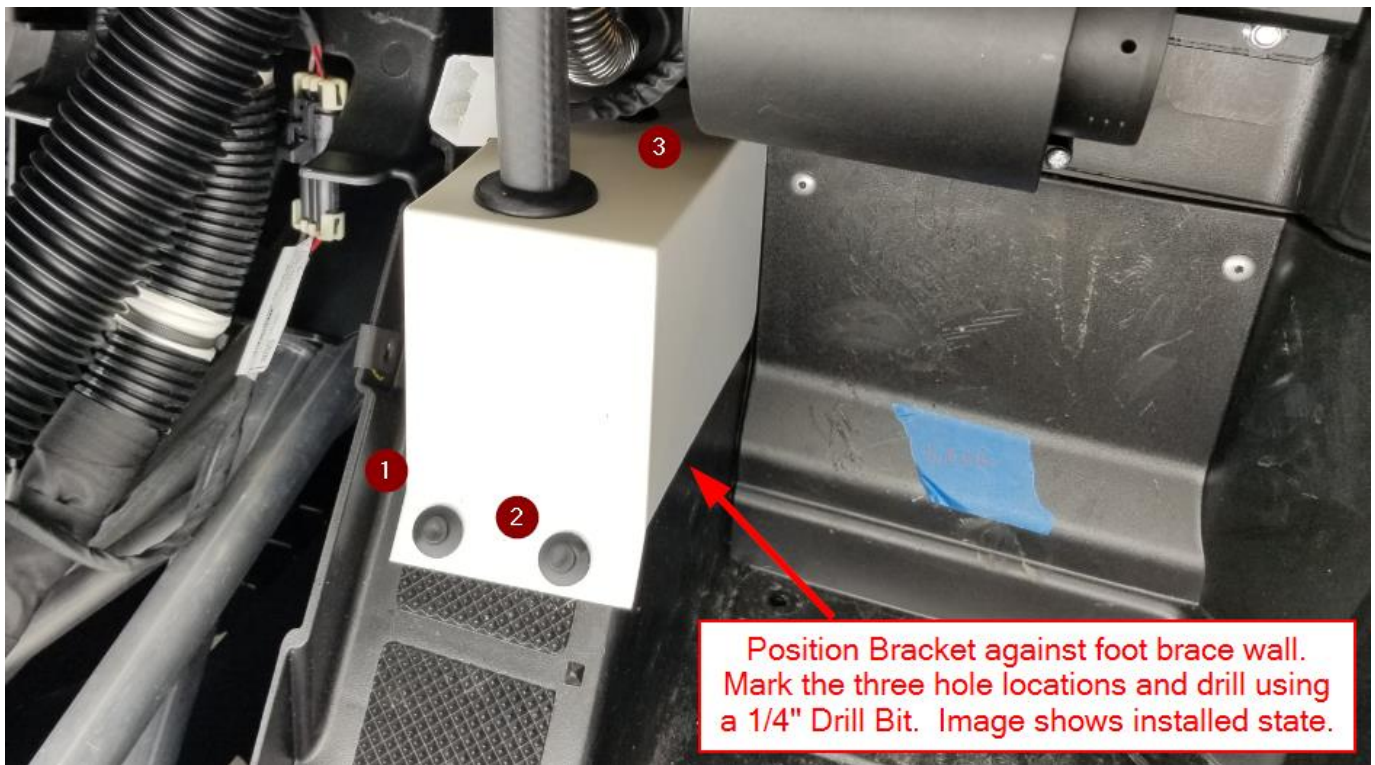


Figure 8

Polaris RZR Pro XP Ice Crusher Heater

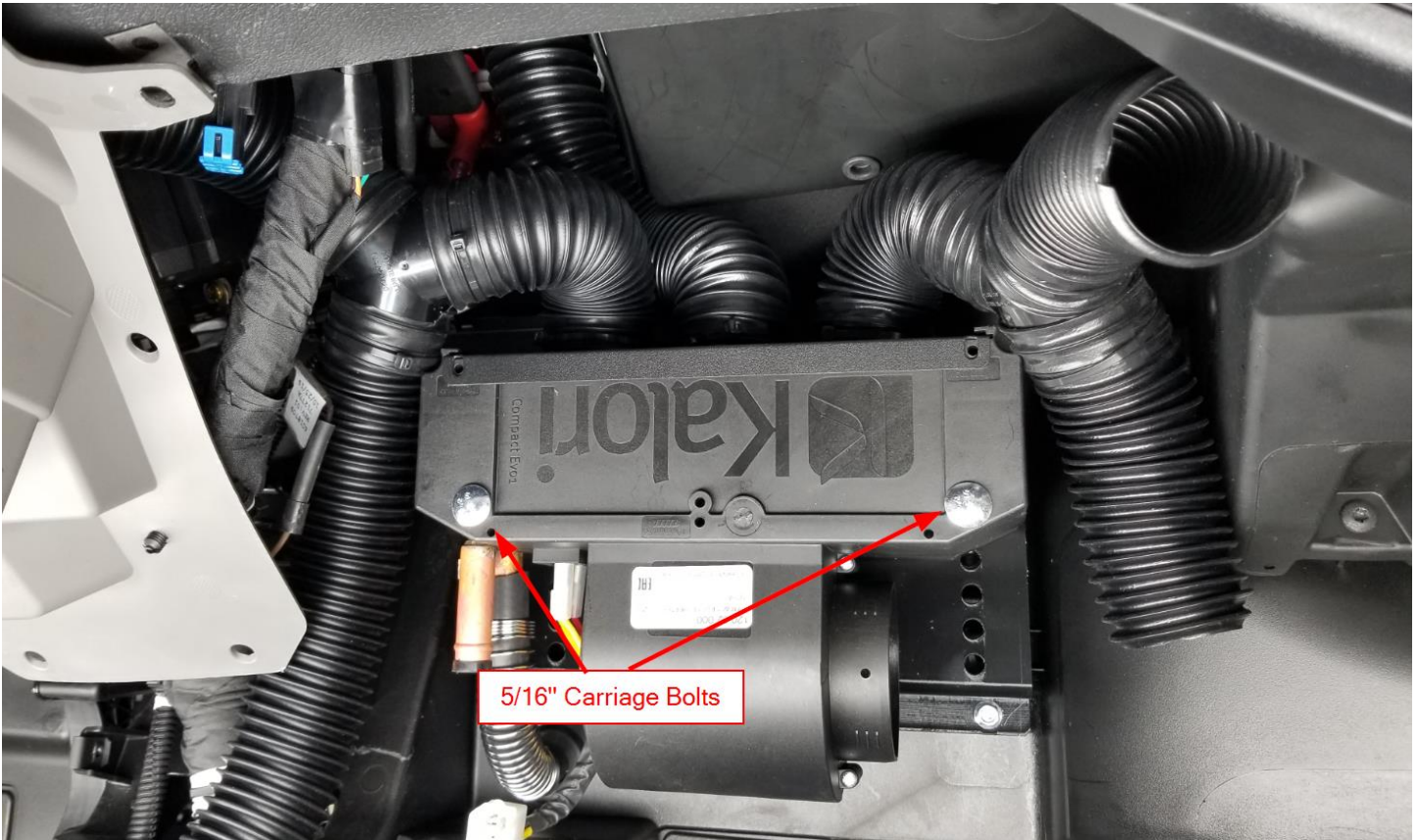


Figure 11

Polaris RZR Pro XP Ice Crusher Heater

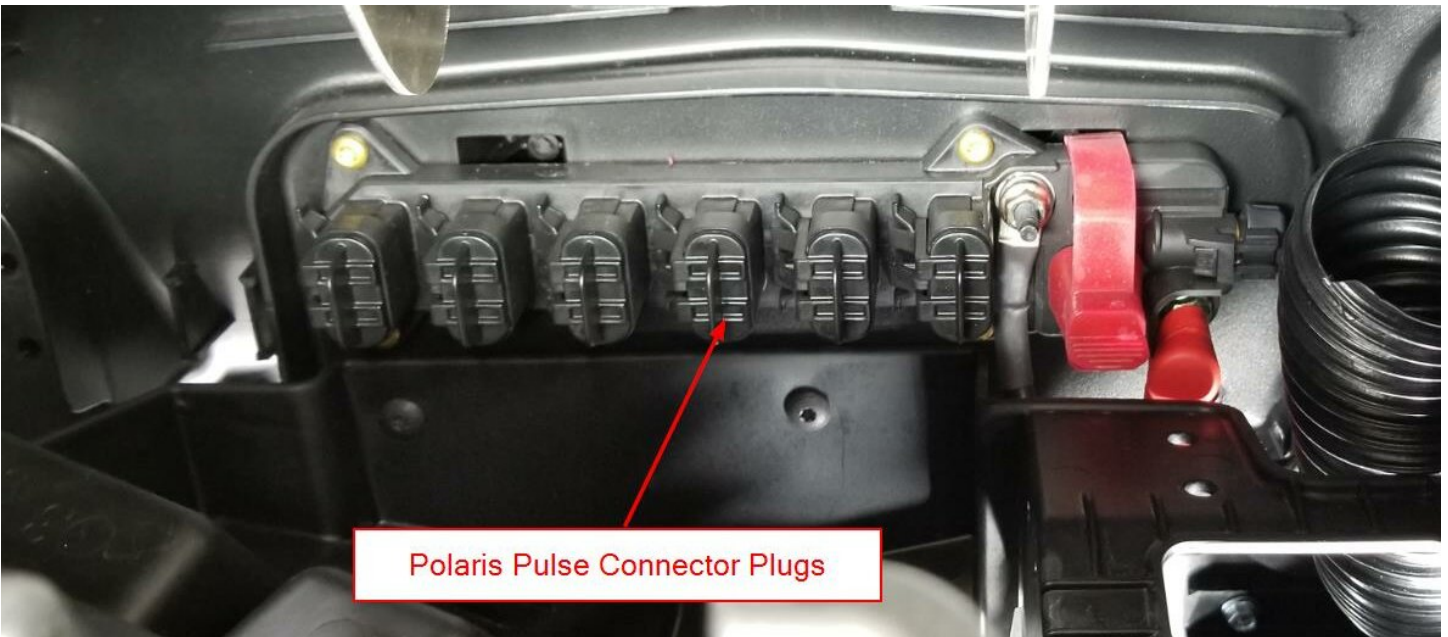


Figure 13

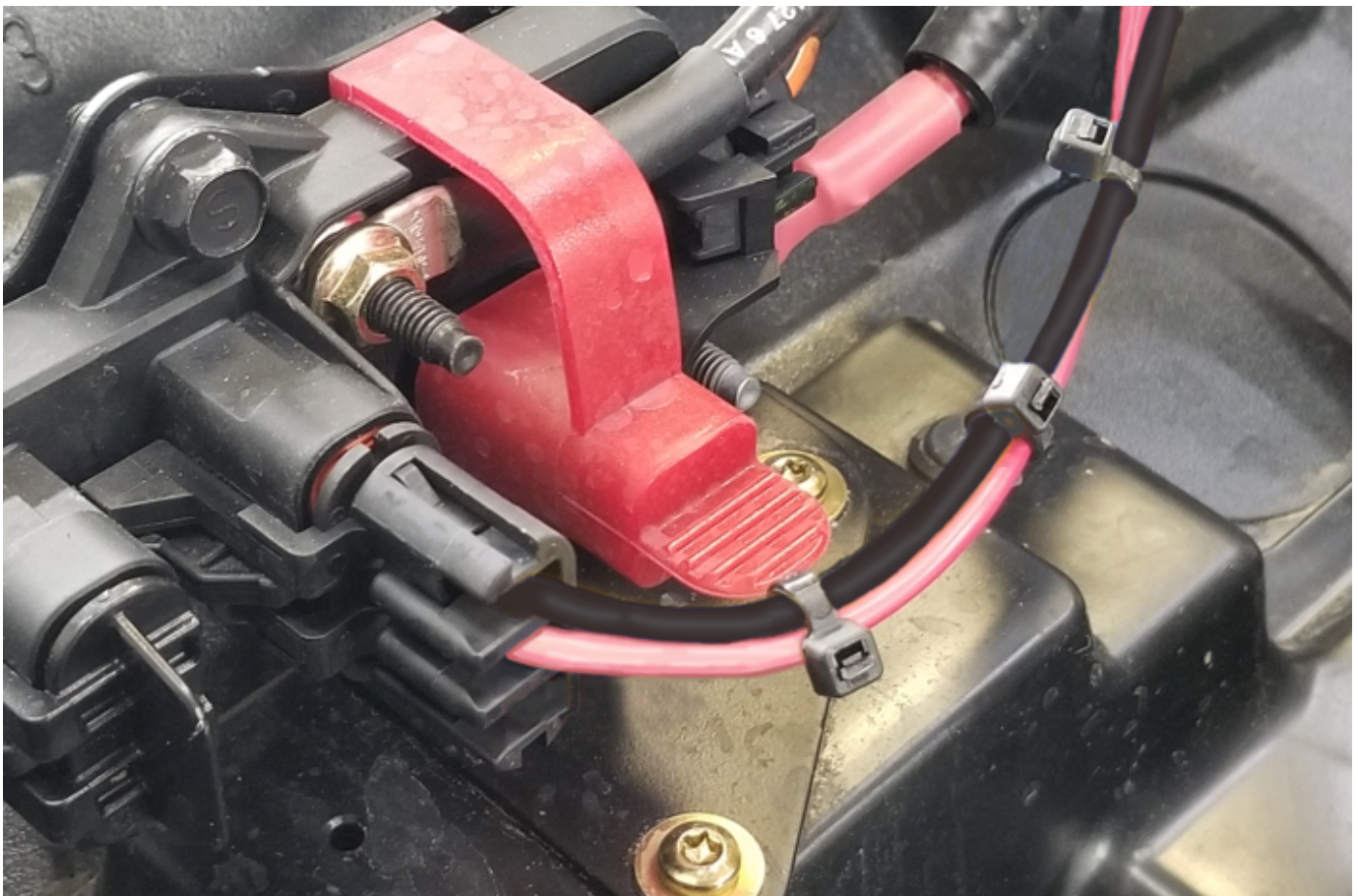


Figure 14

Polaris RZR Pro XP Ice Crusher Heater

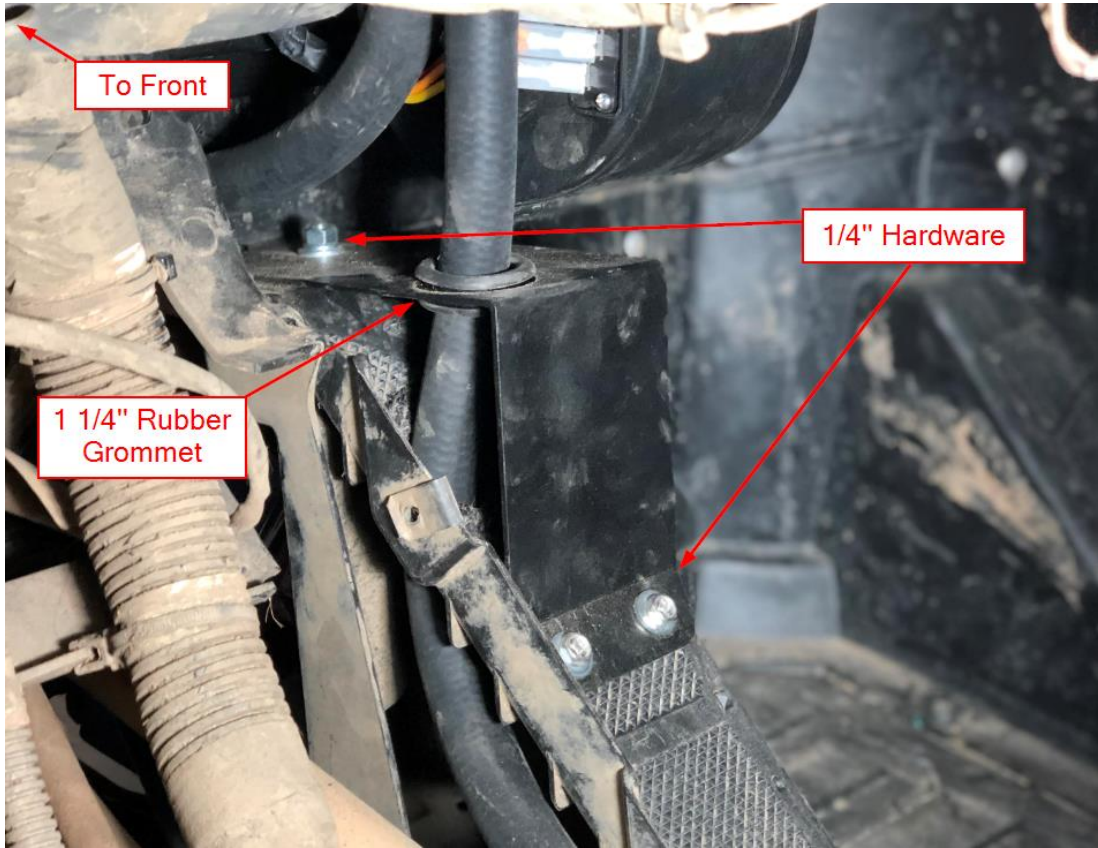


Figure 15

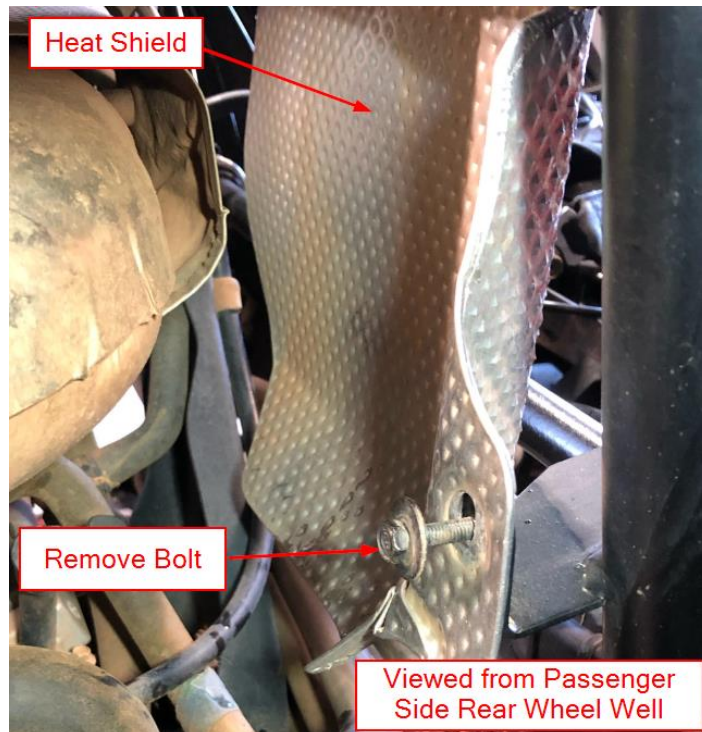


Figure 16

Polaris RZR Pro XP Ice Crusher Heater

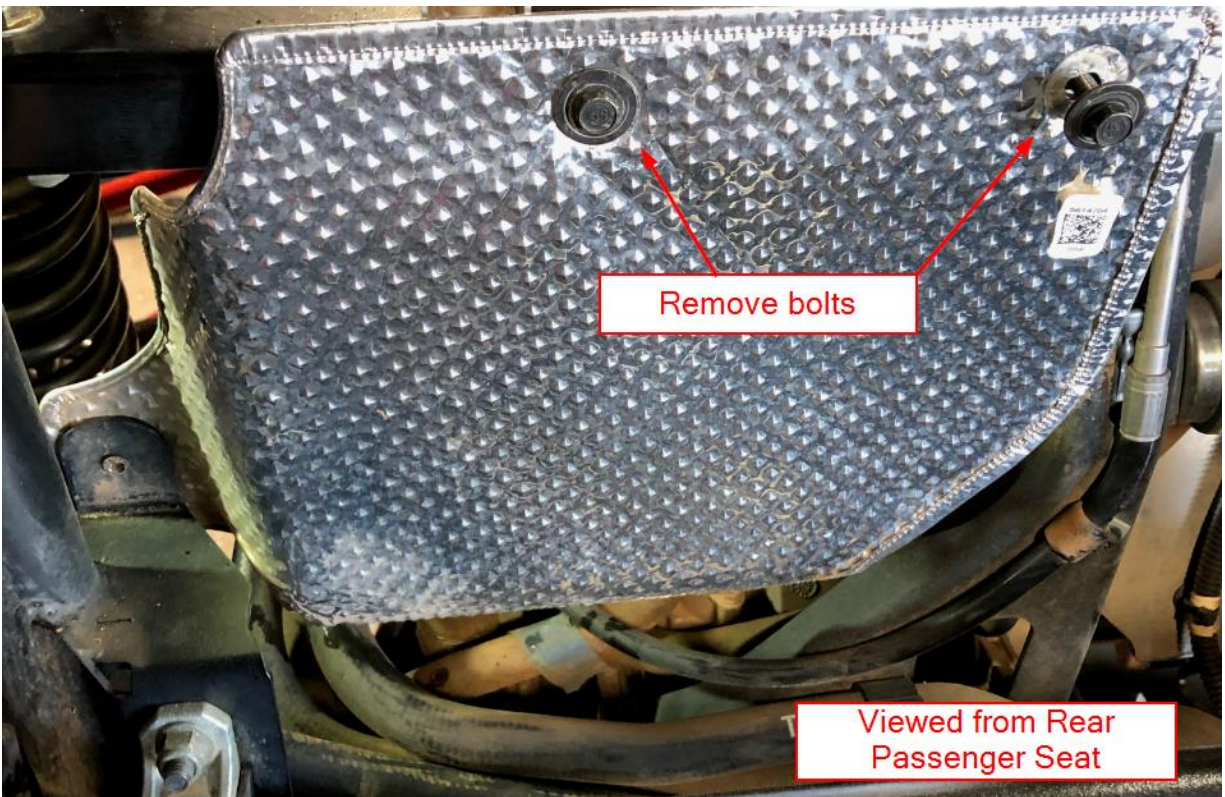


Figure 17

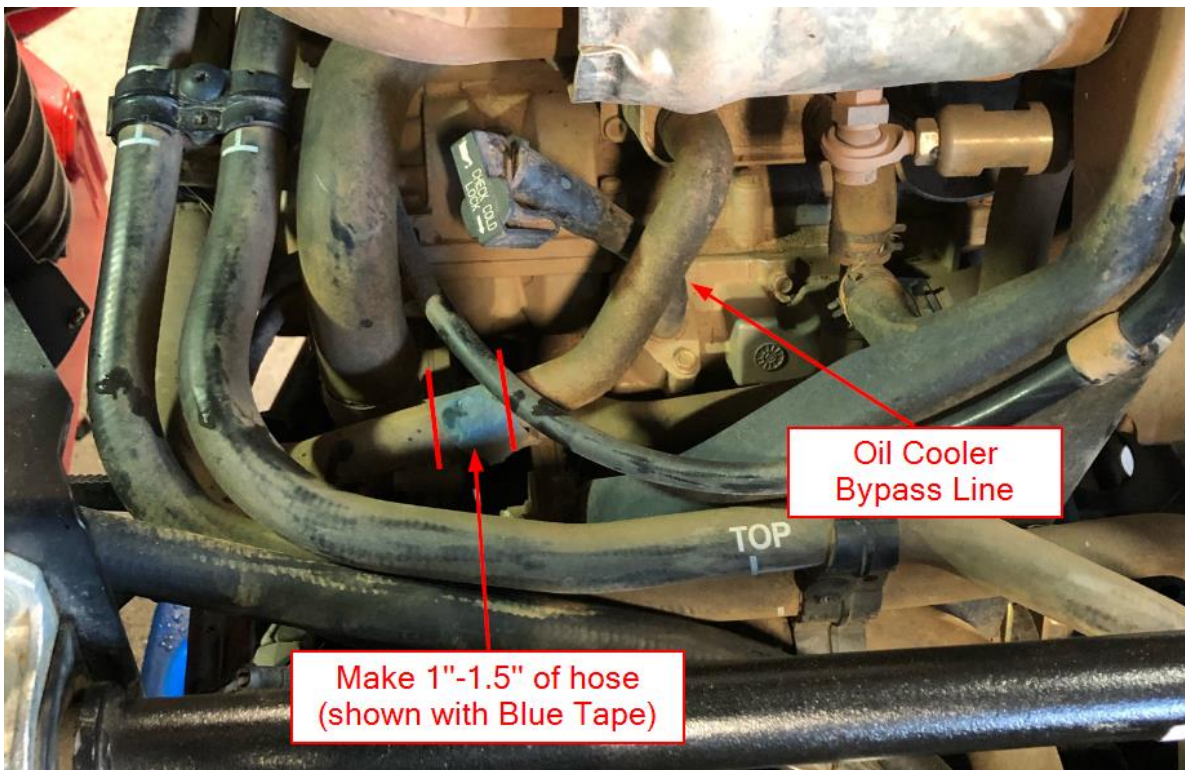


Figure 18

Polaris RZR Pro XP Ice Crusher Heater

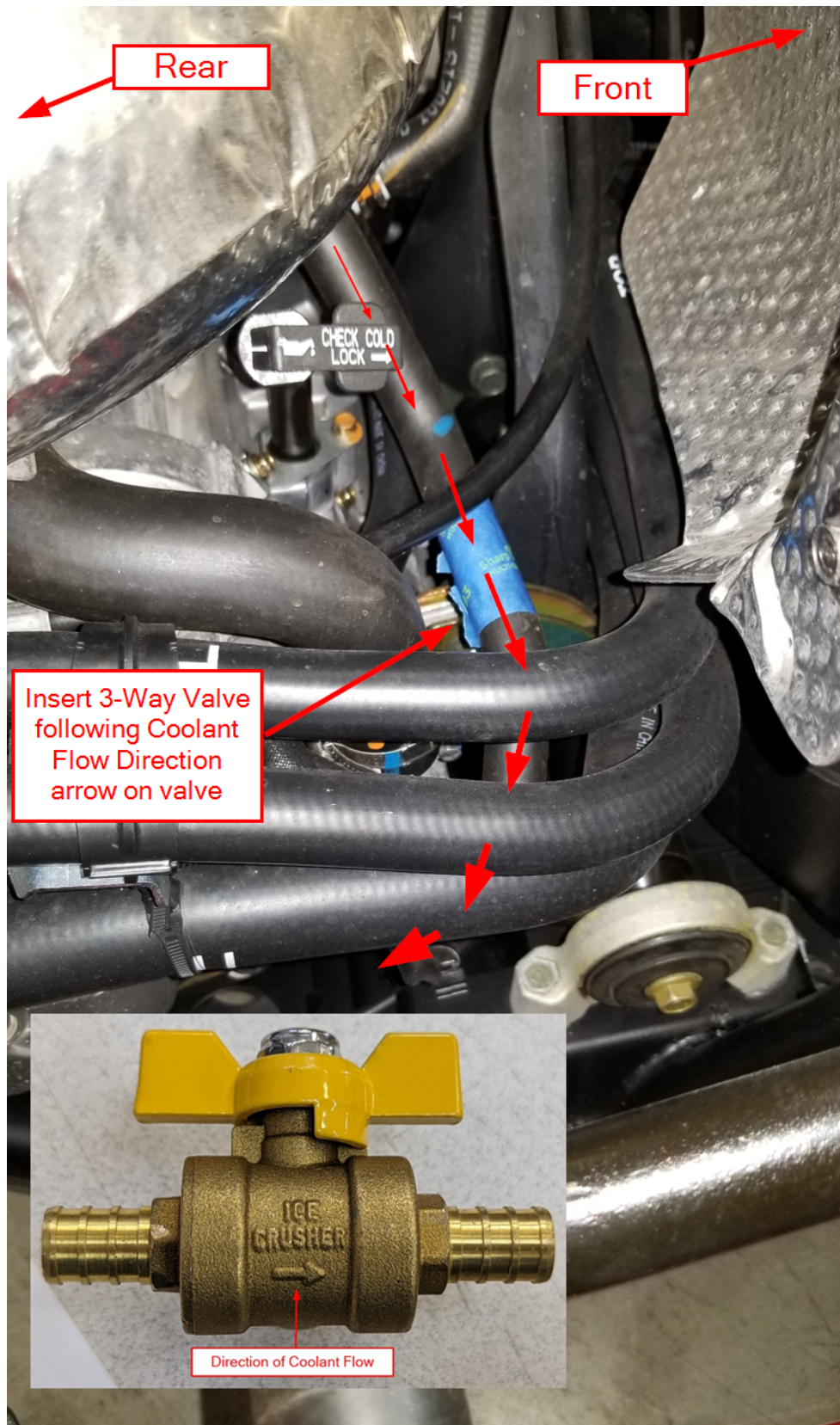


Figure 19

Polaris RZR Pro XP Ice Crusher Heater

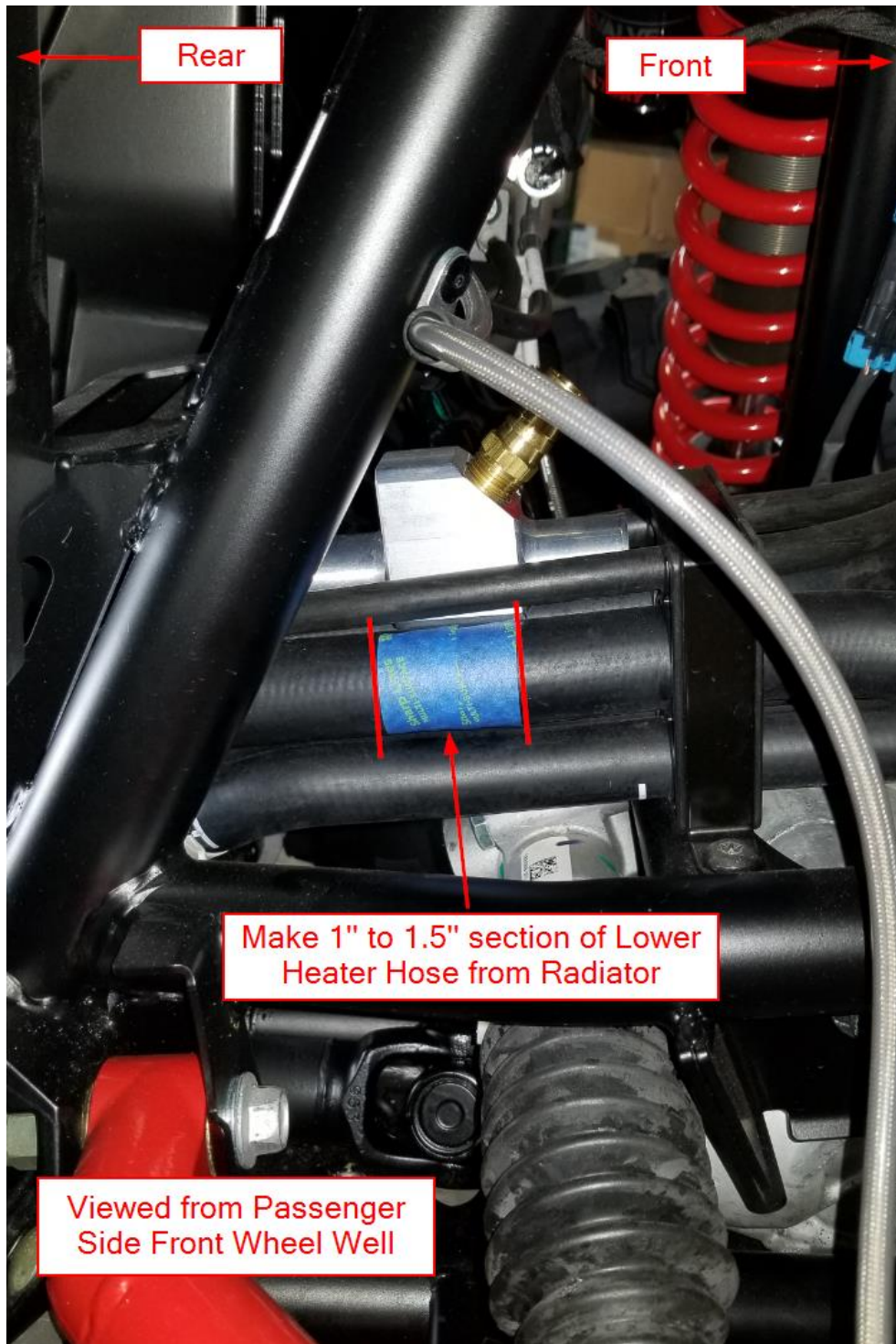


Figure 20

Polaris RZR Pro XP Ice Crusher Heater

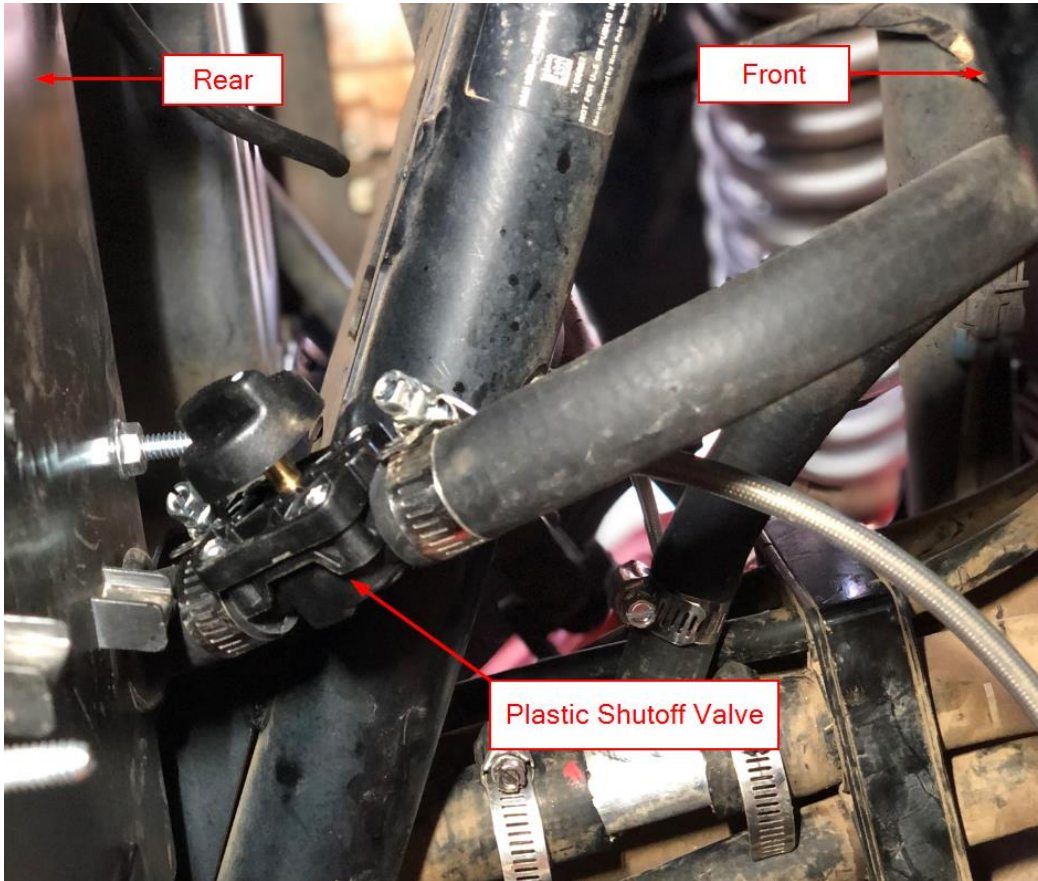


Figure 21



Figure 22

Polaris RZR Pro XP Ice Crusher Heater

HEATER WARRANTY – utvheaters.com and coupersproducts.com

***Coutersproducts.com/UTVHeaters.com Heater Warranty. 3 Year/36 Month Limited Warranty**

UTV Heaters warrants your Ice Crusher 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 including electrical components. 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.

UTV Heaters obligation under this warranty are limited to repair of the product at UTV Heaters production facility, or the replacement of the product at UTV Heaters option and at UTV Heaters 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 UTV Heaters, customer must contact UTV Heaters customer service, (888)-964-0135, info@utvheaters.com, and obtain a Return Authorization Number. This number must be marked on exterior of carton for easy identification. Warranty product received at UTV Heaters 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 confirmed or provided. UTV Heaters will not be liable for any damages sustained in transport due to improper packaging or handling. The acceptance by UTV HEATER WARRANTY – utvheaters.com and coupersproducts.com

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:

Couper's Products

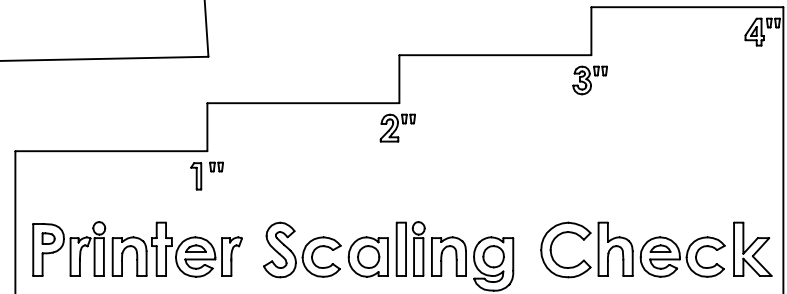
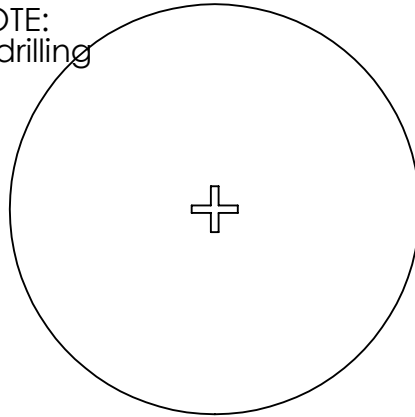
Attn: Warranty

23001 Industrial Blvd

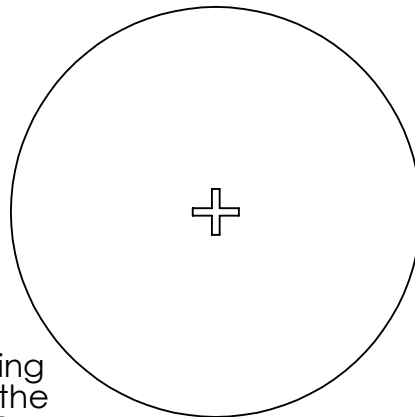
Rogers, Minnesota, 55374

Defrost Template

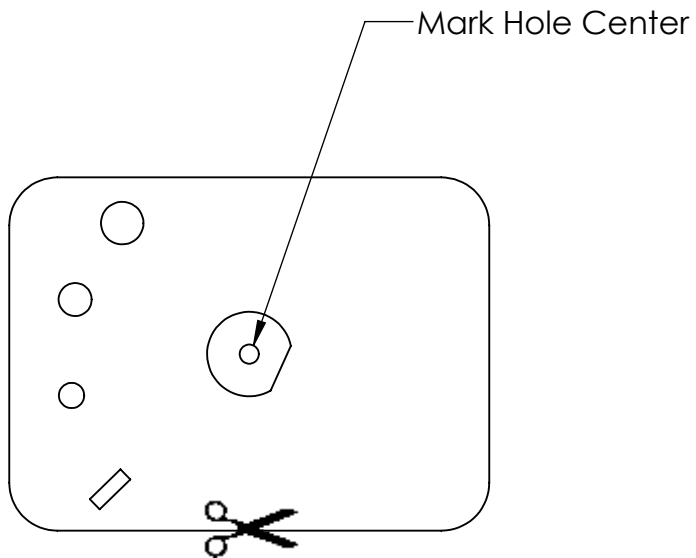
Position Template on top of dash matching the trim line. Transfer the hole center to the dash and drill using the 2" Hole Saws. NOTE: verify nothing is behind the dash before drilling



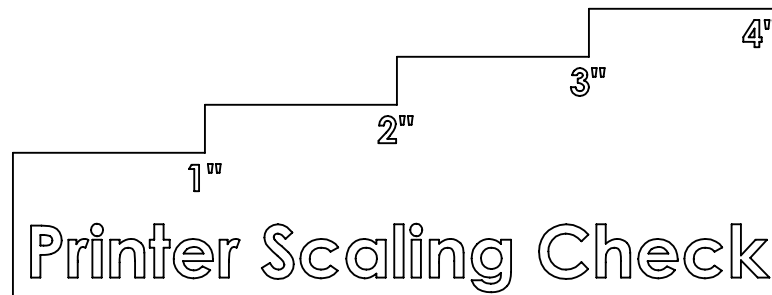
Position Template on top of dash matching the trim line. Transfer the hole center to the dash and drill using the 2" Hole Saws. NOTE: verify nothing is behind the dash before drilling



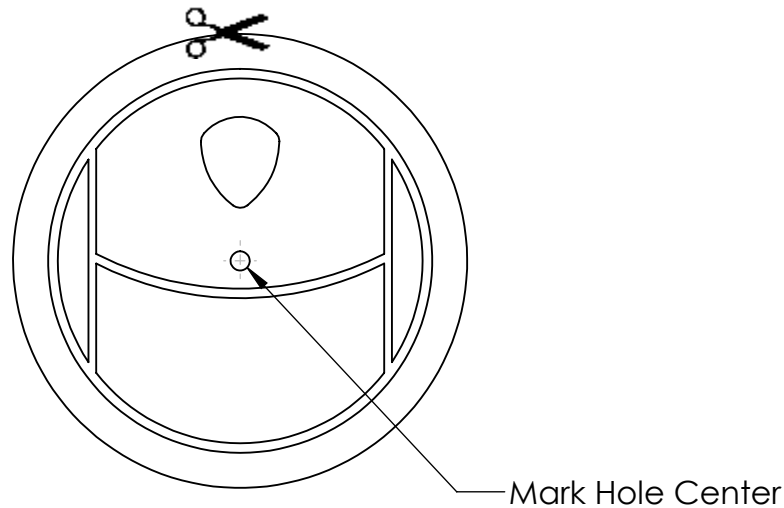
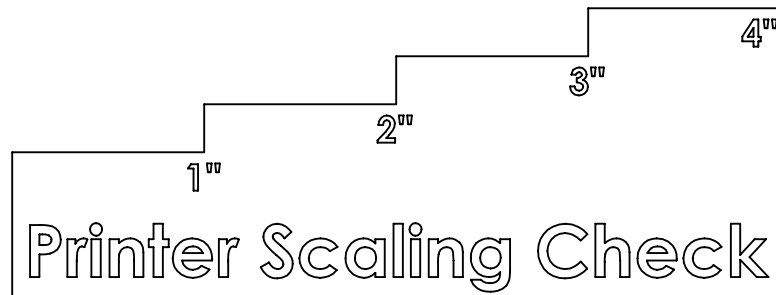
Switch Location Template



Cut out the Switch Location Template. Position the template as shown in the instructions, transfer the hole center as shown on the template and drill using a 7/16" drill bit.



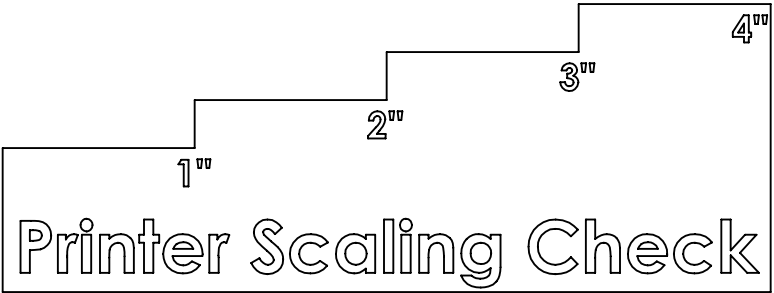
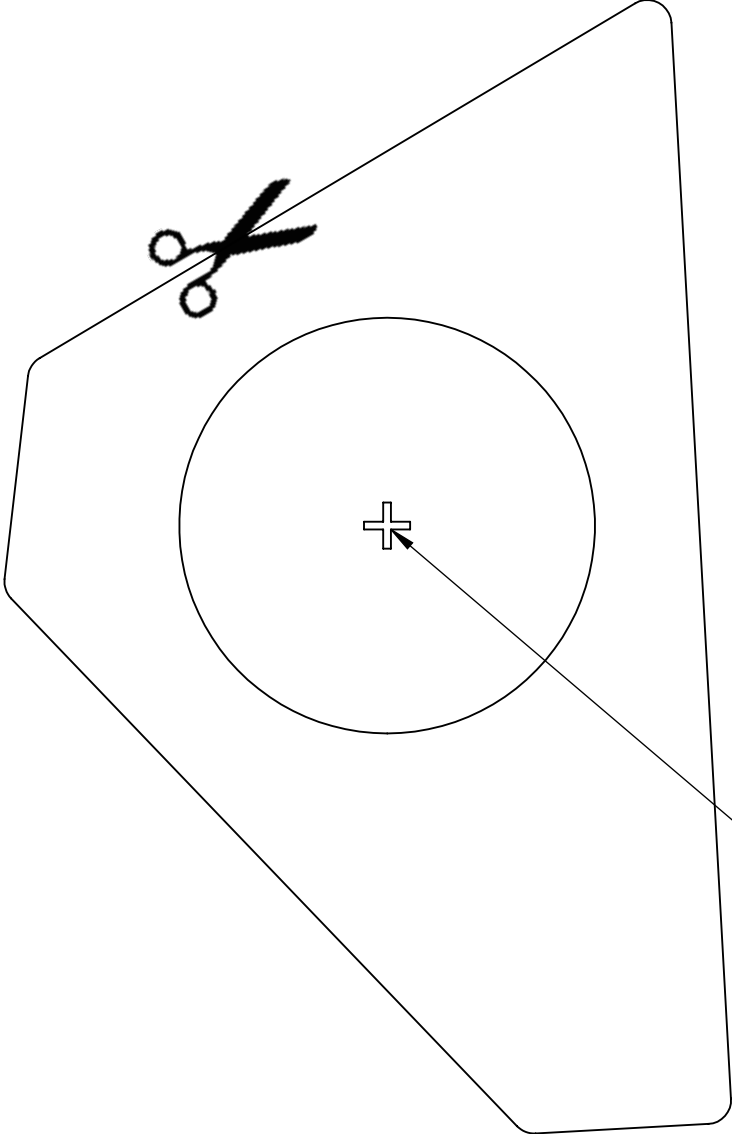
2" Vent Location Template



Cut out the 2" Vent Location Template. Position the template in the locations shown in the instructions, transfer the hole center as shown on the template and drill using the 50mm hole saw and pilot bit.

Debur the edges and use a razor blade to create a small 'V' shaped notch to accept the anti-rotation notch molded into the side of the 2" Vent

Driver Side Center Tunnel Template

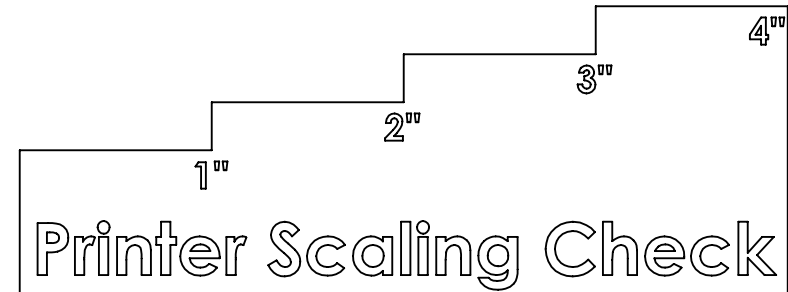
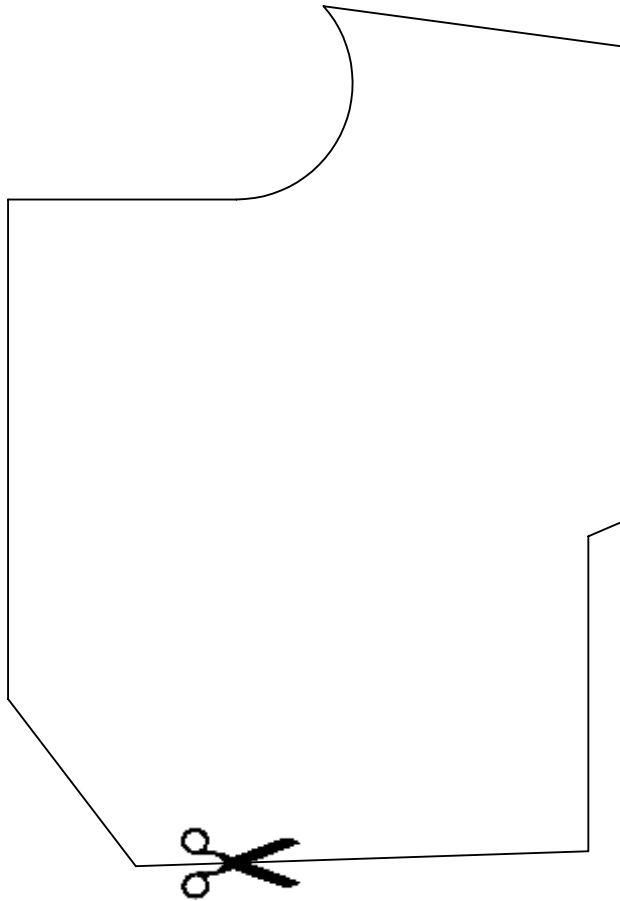


Cut out the template and position on the Driver Side Center Tunnel as shown in the instructions. Transfer the hole center and drill using the 50mm Hole Saw and Pilot Bit

Debur the edges and use a razor blade to create a small 'V' shaped notch to accept the anti-rotation notch molded into the side of the 2" Vent

— Mark Hole Center

Passenger Side Center Tunnel Template

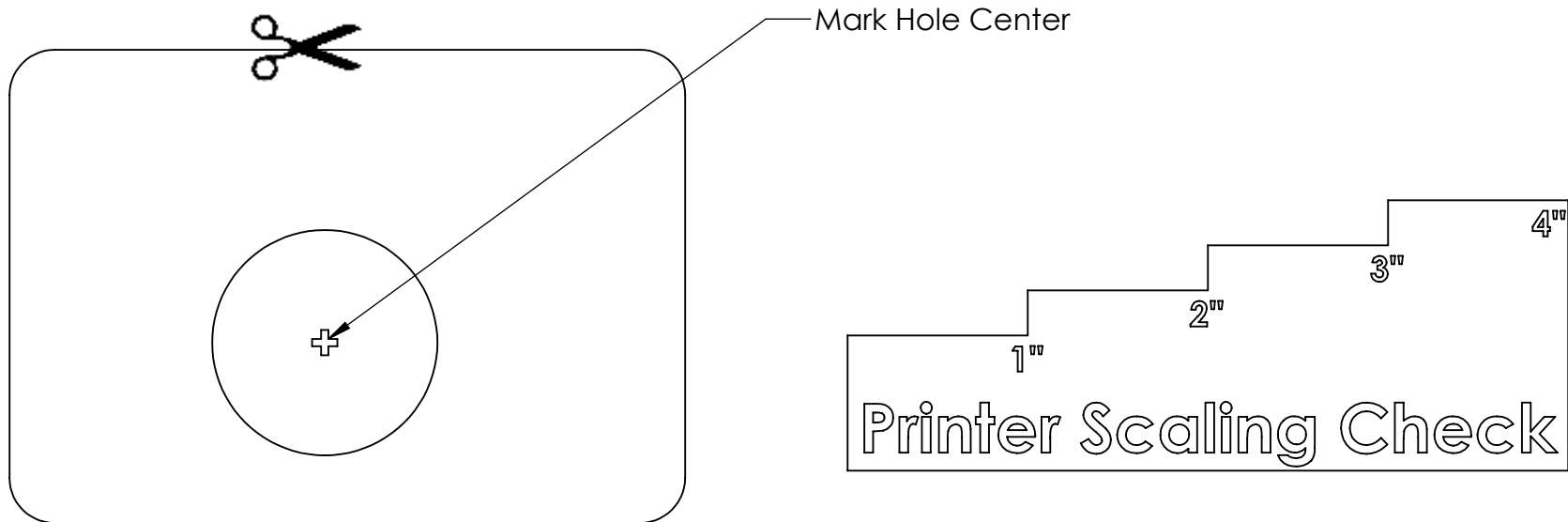


Cut out the template and position on the Passenger Side Center Tunnel as shown in the instructions. Trim the plastic along the template to create an opening for the 2" duct hose to pass through to the Driver Side Leg Vent.

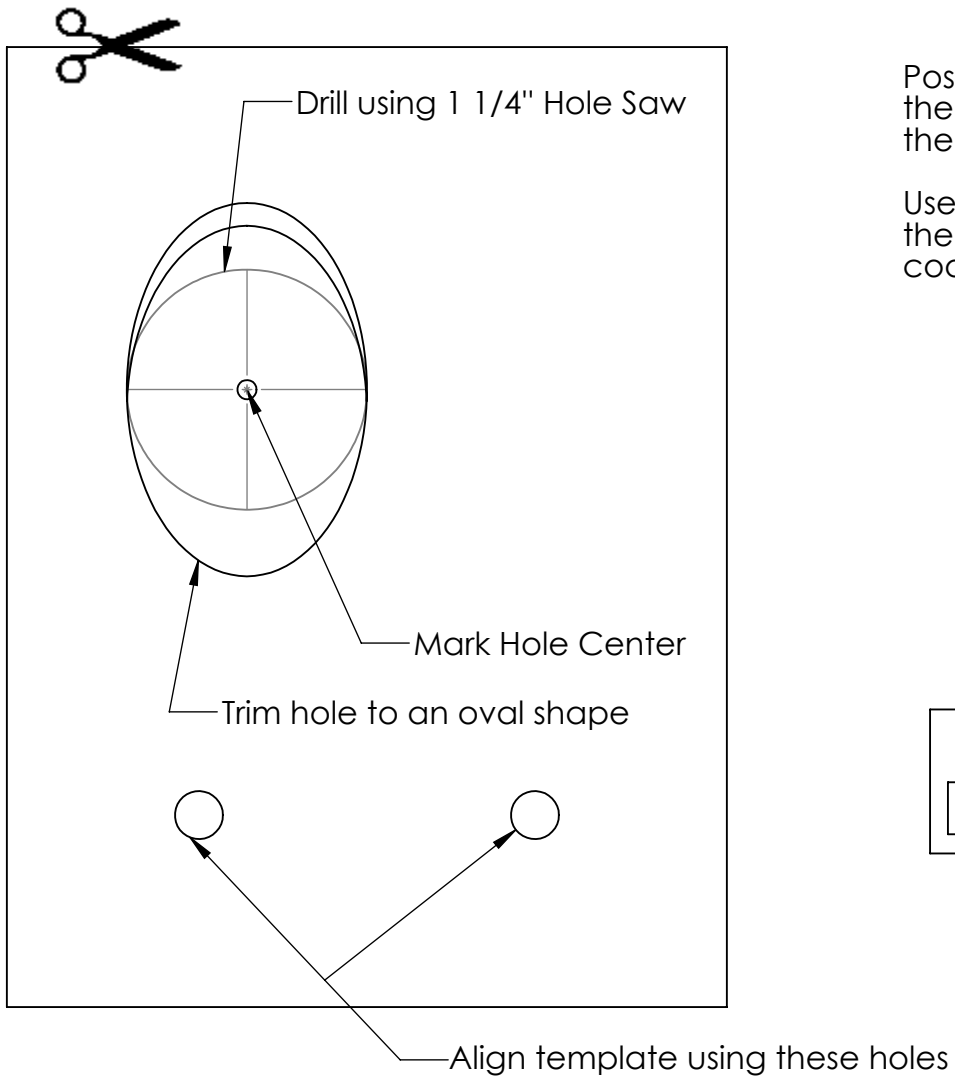
Firewall Heater Hose Template

Cut out the Heater Hose Template and position against the passenger side firewall as shown in the instructions. Transfer the hole center and use the 1 1/4" Hole Saw to drill a hole through the firewall.

NOTE: Before drilling, verify there is clearance behind the firewall for the hole saw.



Lower Heater Hose Template



Position Template over the two 1/4" Holes drilled in the Passenger Foot Brace. Mark the Hole Center on the template. Drill using the 1 1/4" Hole Saw and Pilot Bit.

Use a razor blade to trim hole into an oval shape like the one shown on the template. This will allow the 5/8" coolant hose to pass through the opening more easily.

