Can-Am Defender Heater Kit

ICCH-UD-C-CANDEF

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

4x #16 Hose Clamps

6x #10 Hose Clamps

1x Blower Switch

1x 7/16" Washer

2x 5/16-18x5" Bolts

2x 5/16x18 Nuts

2x #10x1/2" Screws

Standard -15f of 5/8 Heater Hose

Max -18f of 5/8 Heater Hose

1x Pre-made Power Loom

3x 1/4-20x3/4" Bolts

2x 1/4x20 Nuts

2x 1/4"-20 U-Nuts

8x 1/4" Push-Pins

2x 1 1/4" Gommets

2x 1" Brass Y's

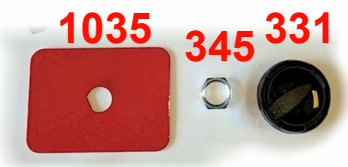
30x 11" Cable Ties

1x EZ-Coils

1x Quick Connector
1x 1/4" Eye Terminal

1x 5/8 Shut Off Valve

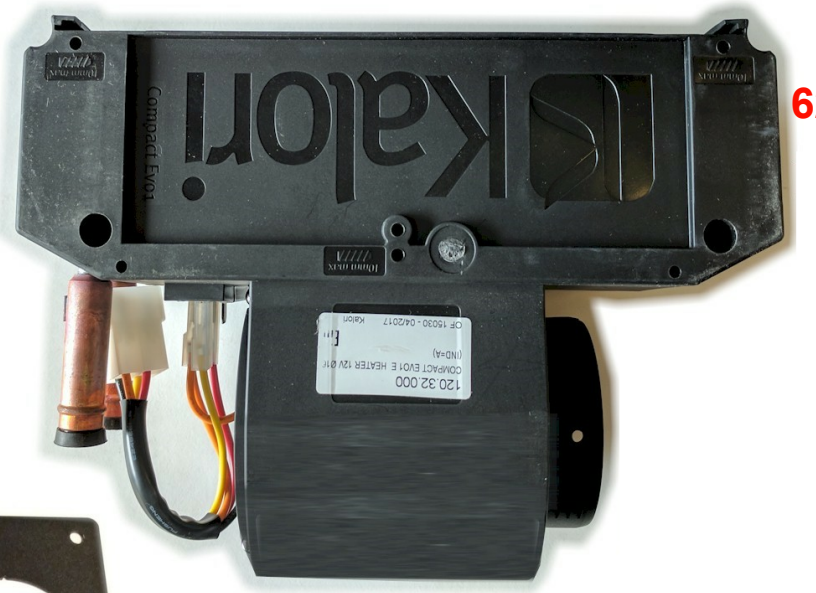
1x IC-SWBCRED Bezel, Switch Nut, 1x #2 Knob



MaxStat Option

1031

1x IC-CANDEFCVC
Center Vent Brkt



620

1x Heater Unit

1001

1x IC-U3VBC
Left Vent Brkt

1032

1x IC-CANDEFRHLVBC
Right Vent Brkt

1005P

Heater Face Plate with Ports

1034

1x IC-CANDEFMHB2C
Main Heater Brkt

1033

1x IC-CANDEFMHBC
Main Heater Brkt

3x 2" Y's

503

4x 3" Vents

502

2x 2" Vents

501

505

44" 2" Duct Hose
(compressed)

Can Am Defender Under Dash Heater Instructions

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.

Please Note: Fitting of heater makes the very far left lower dash fold out cubby non usable.

Remove hood, front fenders and over fenders as required from UTV to gain access to the panels as shown in Figures 1a and 1b.

Remove shift lever knob and shift lever panel as shown in Figure 2.

Using supplied center hole template, position templates on shift lever panel, mark out hole centers as stated on template, remove templates. Carefully drill holes using supplied 55mm hole saw and a ½ drill bit as directed on templates. **Tip:** Use a knife to remove burs from the drilled holes to help with fitting of the vents.

Using supplied defrost vent hole template, position templates in correct locations as shown in Figures 3a and 3b and on the template, mark out hole saw centers as stated on template, remove templates. Carefully drill holes using supplied 55mm hole saw as directed on templates.

Using Figures 4a – 4c as a guide position lower vent brackets in the correct position, mark out mounting hole centers and trim lower dash as shown in Figures 4a – 4c. Remove brackets and drill holes with a ¼" drill bit. Fit bracket by attaching with the supplied Push-Pins.

Remove center driveshaft tunnel cover. Using supplied hose hole template position template on cover, mark out hole saw centers as stated on template, remove template. Carefully drill holes using supplied 1 1/4'" hole saw as shown in Figure 5. Install supplied grommets in holes.

Remove the very left lower dash panel with the fold out cubby to locate the bolt and nut as shown in Figure 6. Remove lower bolt and upper nut.

Remove screws from panel as shown Figure 7.

Can Am Defender Under Dash Heater Instructions

Using Figure 8 as a guide cut duct hoses to length (lengths measured with the duct hose in its compressed state, measure and cut accordingly).

Take the 10” piece of 2” defrost duct and from the right side access hole pass through to the left side of UTV as shown in Figure 8a. Pass hose through the panel hole as shown in Figure 8b. Access to help route hose can be gain to this panel as shown in Figure 8c. Pull the hose through the left side access hole and attach the 2” Y fitting and the remaining hoses for the defrost vents. Pull duct hose and Y back inside UTV. Pull 2" duct hoses through the right drilled vent holes, attach 2” vent to the duct hose. Use cable tie around the vent/duct hose connection. Clip right vent into position as shown Figure 10.

Route 8” piece of center hose from the left side of UTV to the center (route next the defrost hose as shown in Figure 10a) and out the opening by the shift lever as shown in Figure 10b.

Remove gauge cluster from dash. Route 7” piece of lower vent hose from the left side (Figure 11a) of UTV behind the gauge cluster (Figure 11b) down to the right of steering column as shown in Figure 11c. Attach the 2” Y fitting and the remaining hoses for the lower vents. Pull 2" duct hoses through the brackets, attach 3” vents to the duct hose. Use cable ties around the vent/duct hose connections. Clip vents into position as shown Figure 11d and 11e.

Install heater mounting brackets to heater as shown in Figure 12b using supplied 5/16"x5" bolts and #10x ½" screws. Tighten mounting hardware.

Install U-Nuts over the second mounting bracket as shown in Figure 12c and install on the heater mounting bracket using supplied 1/4x3/4” bolts. Do not tighten bolts.

Make up heater loom with supplied terminals. Connect to heater power connector.

Using supplied 5/8” heater hose cut one length at 6ft. Connect cut piece and the remaining 5/8” hose the heater fittings. Secure with supplied #10 hose. **Please Note:** Be sure to remove factory shipping plugs from heater fittings if so fitted.

Move heater up in to position as shown in Figure 13.Using an assistant to support the heater.

Remove heater switch from heater wiring noting the position of wiring connection. Route the heater switch wiring up to the center vent position as shown in Figure 14.

Attach 2” duct hoses to the heater duct connectors as shown in Figure 15. Use cable tie around the duct hose connections.

Fit bracket over factory bolt and install removed factory nut. Install removed lower factory bolt with the negative power loom terminal as shown in Figure 16. Do not tighten bolt or nut.

Can Am Defender Under Dash Heater Instructions

Pull left 2" defrost duct hoses through the left drilled vent holes, attach 2” vent to the duct hose. Use cable tie around the vent/duct hose connection. Clip right vent into position as shown in Figure 17.

Route and connect red power loom from heater to the Aux. Power Plug center power wire as shown in Figure 18.

Fit shift lever panel over 2” duct hose and pass the wiring through the drilled hole, reinstall shift lever panel.

Attach the cut pieces of center 2” duct hose to the 2” Y fitting then to the center vent hose as shown Figure 19. Use cable tie around the duct hose connections.

Install switch into the center vent bracket, fitting red switch bezel first as shown in Figure 20. Fit 7/16 washer and switch nut, tighten nut and fit knob.

Fit center vent bracket into the center dash opening as shown in Figure 21a. Align the bracket as shown in Figure 21b. Mark mounting hole centers, remove bracket, drill holes with a ¼” drill bit.

Refit the heater wiring to the switch as shown in Figure 22. Reconnect battery, turn key on to check fan operation, disconnect battery.

Pull 2" duct hoses through the vent holes, attach 2” vent to the duct hose. Use cable ties around the vent/duct hose connections. Clip right vent into position as shown figure 23a. Refit bracket into the dash, attach with the supplied Push-Pins as shown Figure 23b.

Route heater hoses as shown in Figures 24a – 24d pass heater hose through the grommets in the center driveshaft tunnel cover. Route the hose that passes through the top grommet to the rear following the coolant pipes to the rear of the UTV as shown in Figures 24c – 24d. Pass the lower hose through the factory grommet in the firewall out to the front of the UTV. **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.

Fit supplied Ez-Coil over the front 5/8” heater hose and position as shown in Figure 25.

Adjust heater into position pushing up and to the front of the UTV as far as possible without kinking the duct hoses or interference with any part of the UTV. Tighten nuts and mounting bolts.

Modify left lower fold out cubby panel and fold our cubby by trimming some of the plastic from the rear of both them to allow clearance with heater as shown Figures 29a and 29b. This will allow the cubby to be used somewhat. Alternative is to remove most of the plastic from the panel and cubby then drill a ¼” hole through the side of the both of them and bolt them together using the supplied 1/4x3/4” bolt and ¼” nuts making them a fixed panel.

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.

Can Am Defender Under Dash Heater Instructions

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 rear upper radiator hose in engine compartment on the right side of the UTV as shown in Figure 26a. Cut hose approximately as shown in Figure 26b removing approximately a 1" to 1.5" section of the hose. Insert the Y connector exactly as shown in Figures 26c and 26d. Route the rear heater hose to the Y fitting. Cut heater hose to length. Do not connect heater hose to the Y fitting.

Locate the lower radiator hose at the front of the UTV as shown in Figures 27a. Peel back protective sleeve, cut radiator hose as shown in Figure 27b removing approximately a 1" to 1.5" section of the hose. Insert the Y connector exactly in the radiator hose as shown in Figure 27b. Route the front heater hoses over to Y fitting in lower radiator hose. Do not connect heater hose to the Y fitting. **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 hoses to Y connectors and tighten clamps. Install shut off valve into rear heater hose as shown in Figure 28.

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.

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.

Can Am Defender Under Dash Heater Instructions

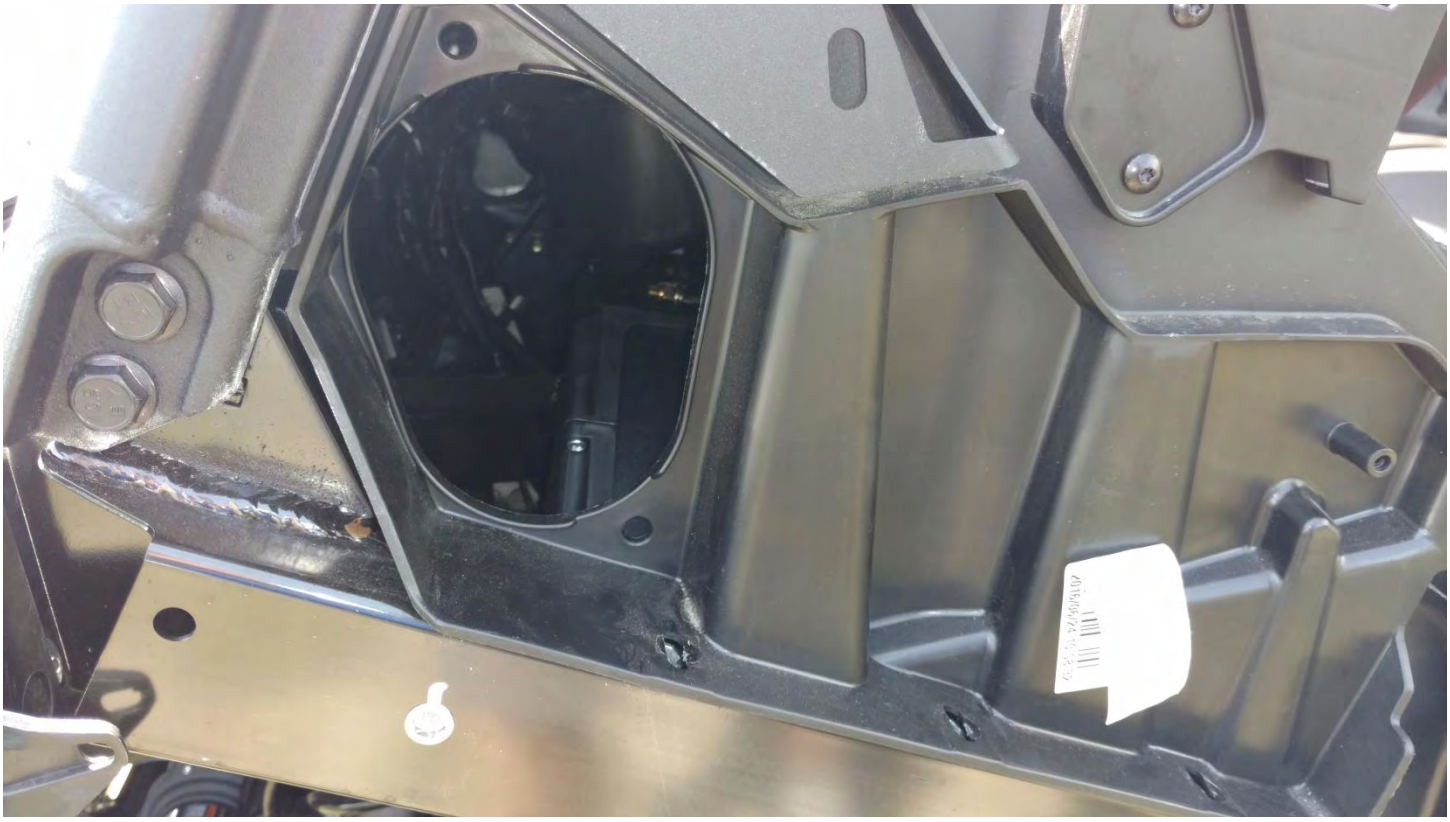


Figure 1a

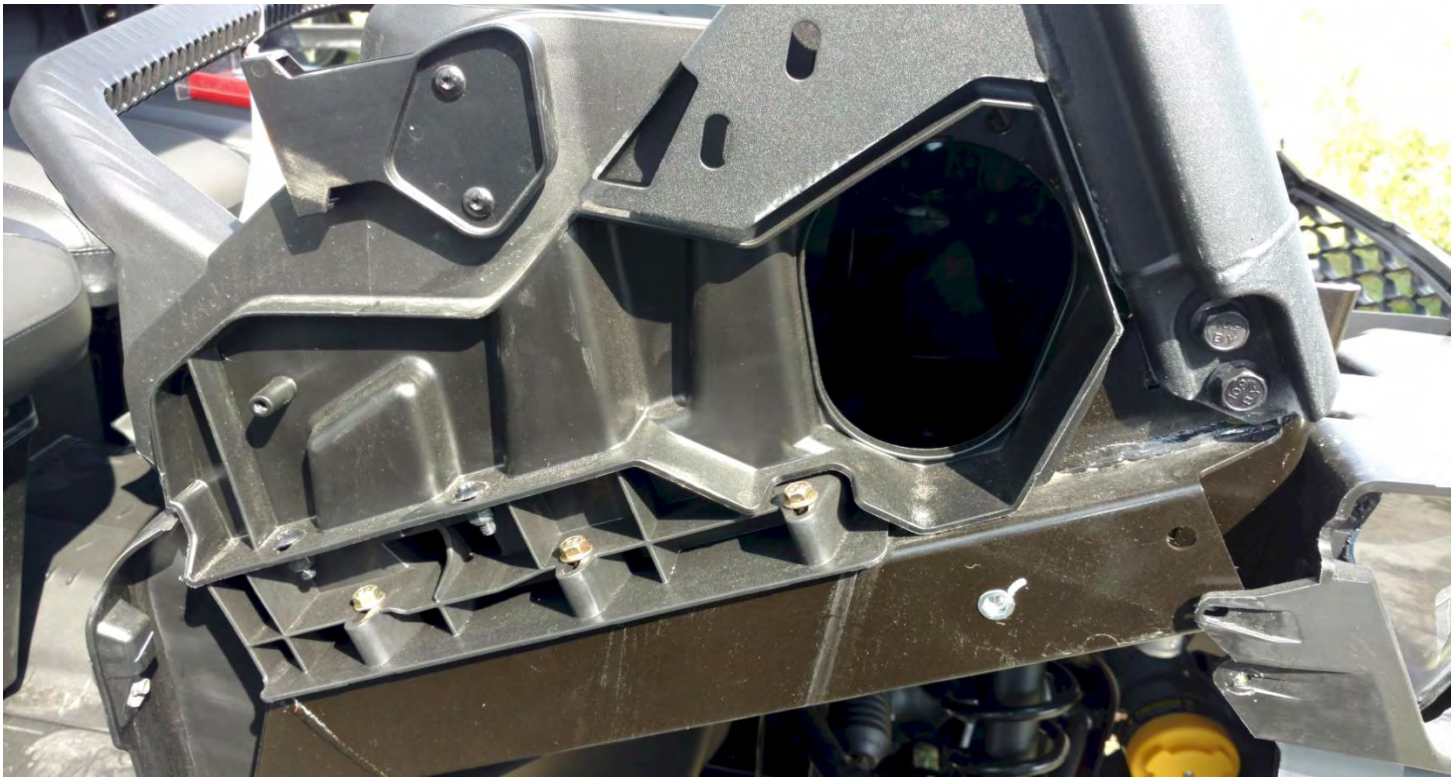


Figure 1b

Figure 2b

Figure 2b

Can Am Defender Under Dash Heater Instructions

Figure 3a

Figure 3b

Can Am Defender Under Dash Heater Instructions

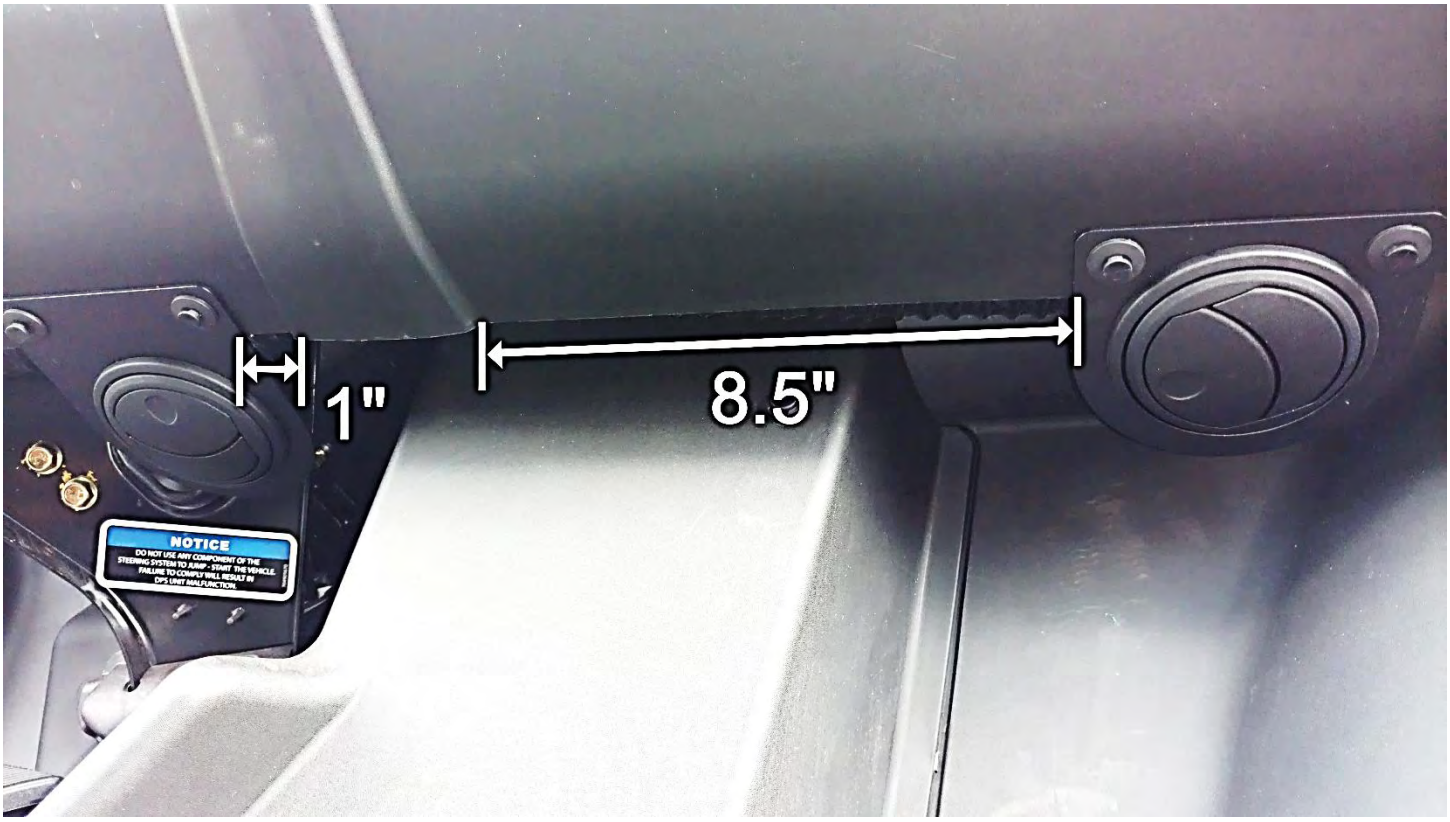


Figure 4a

Figure 4b

Figure 4c

Figure 4d

Can Am Defender Under Dash Heater Instructions

Figure 5

Figure 6

Figure 7

Can Am Defender Under Dash Heater Instructions

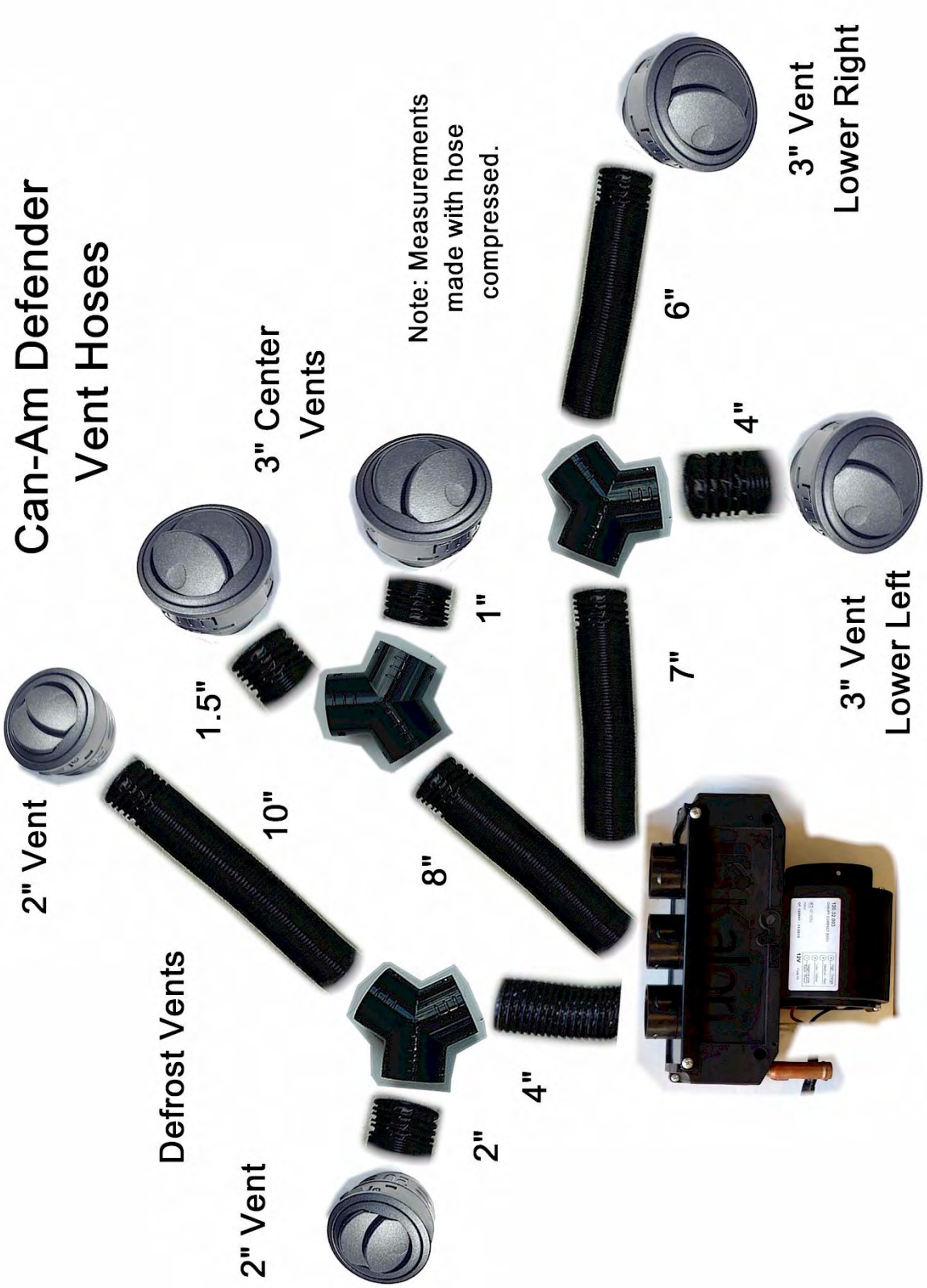


Figure 8

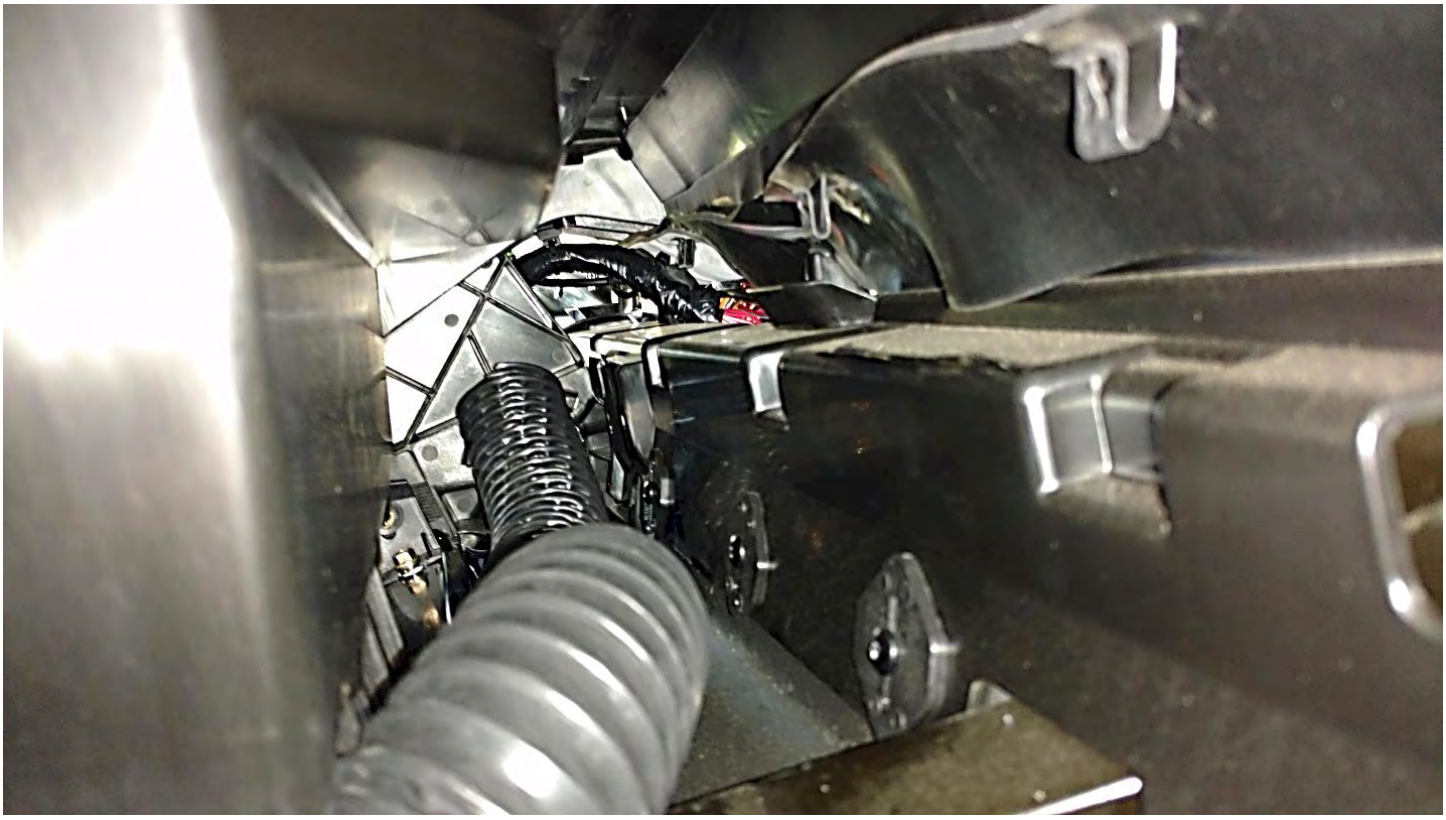


Figure 8a

Figure 8b

Can Am Defender Under Dash Heater Instructions

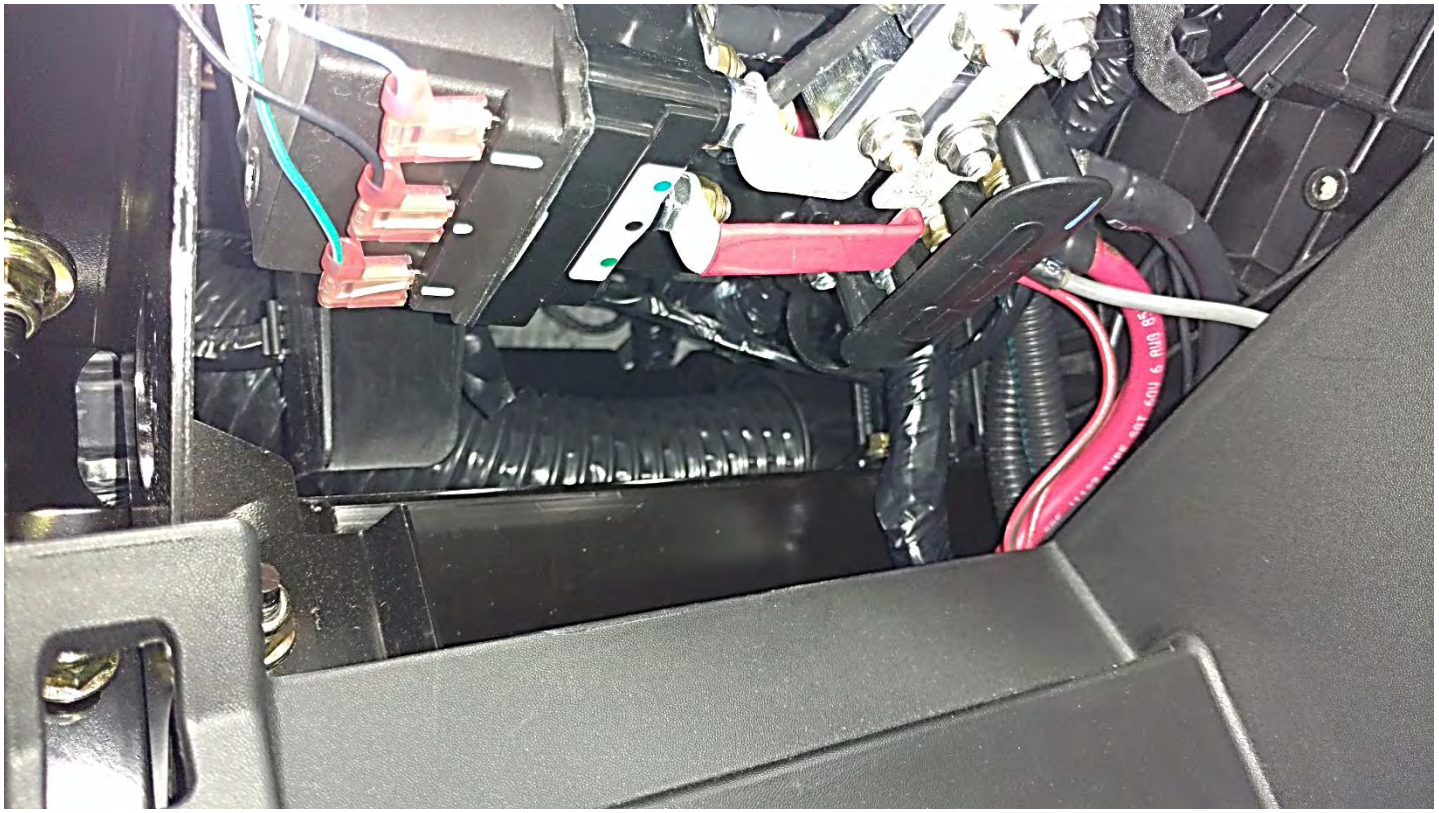


Figure 8c

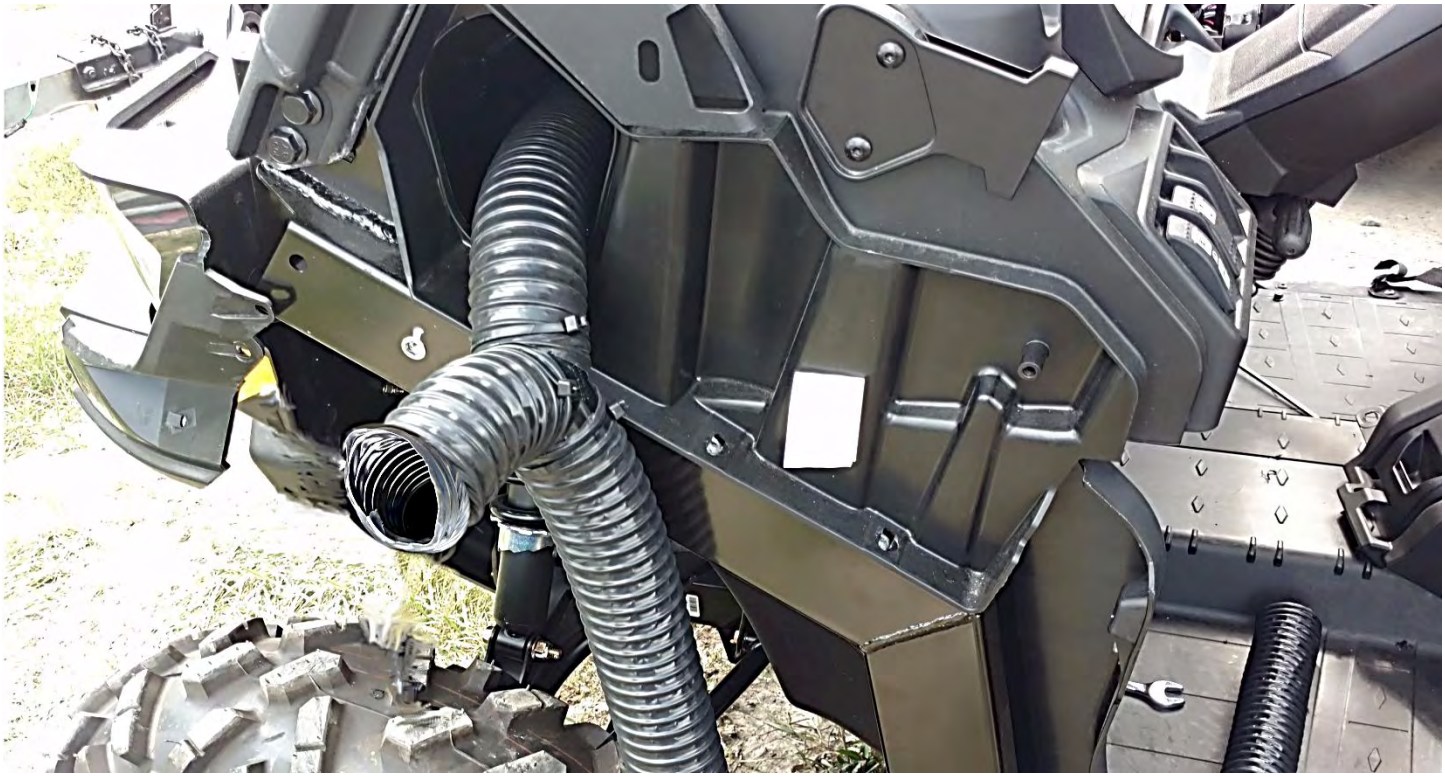


Figure 8d

Can Am Defender Under Dash Heater Instructions

Figure 9

Figure 10a

Can Am Defender Under Dash Heater Instructions

Figure 10b

Figure 11a

Can Am Defender Under Dash Heater Instructions

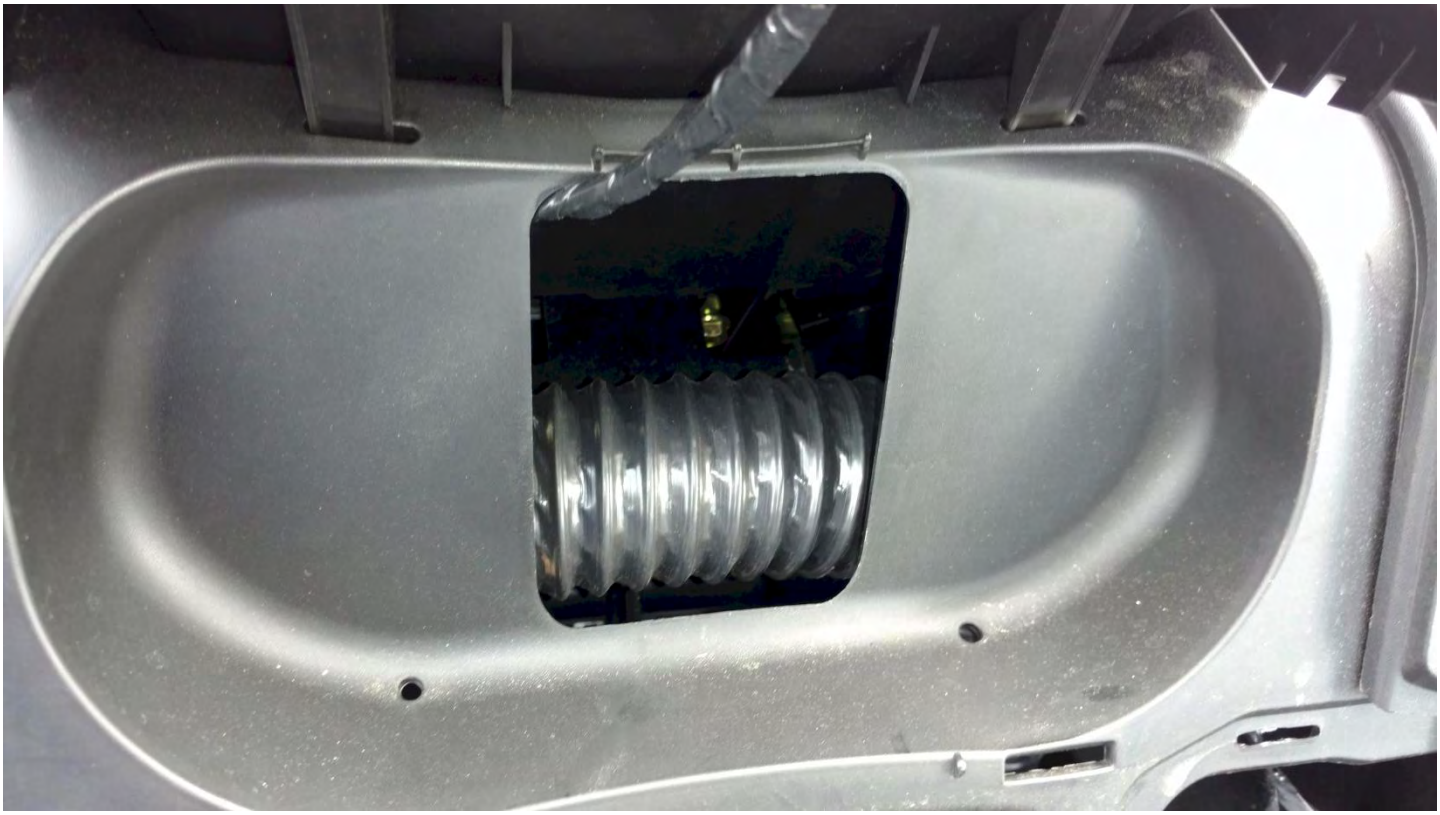


Figure 11b

Figure 11c

Can Am Defender Under Dash Heater Instructions

Figure 11d

Figure 11e

Can Am Defender Under Dash Heater Instructions

Figure 12a

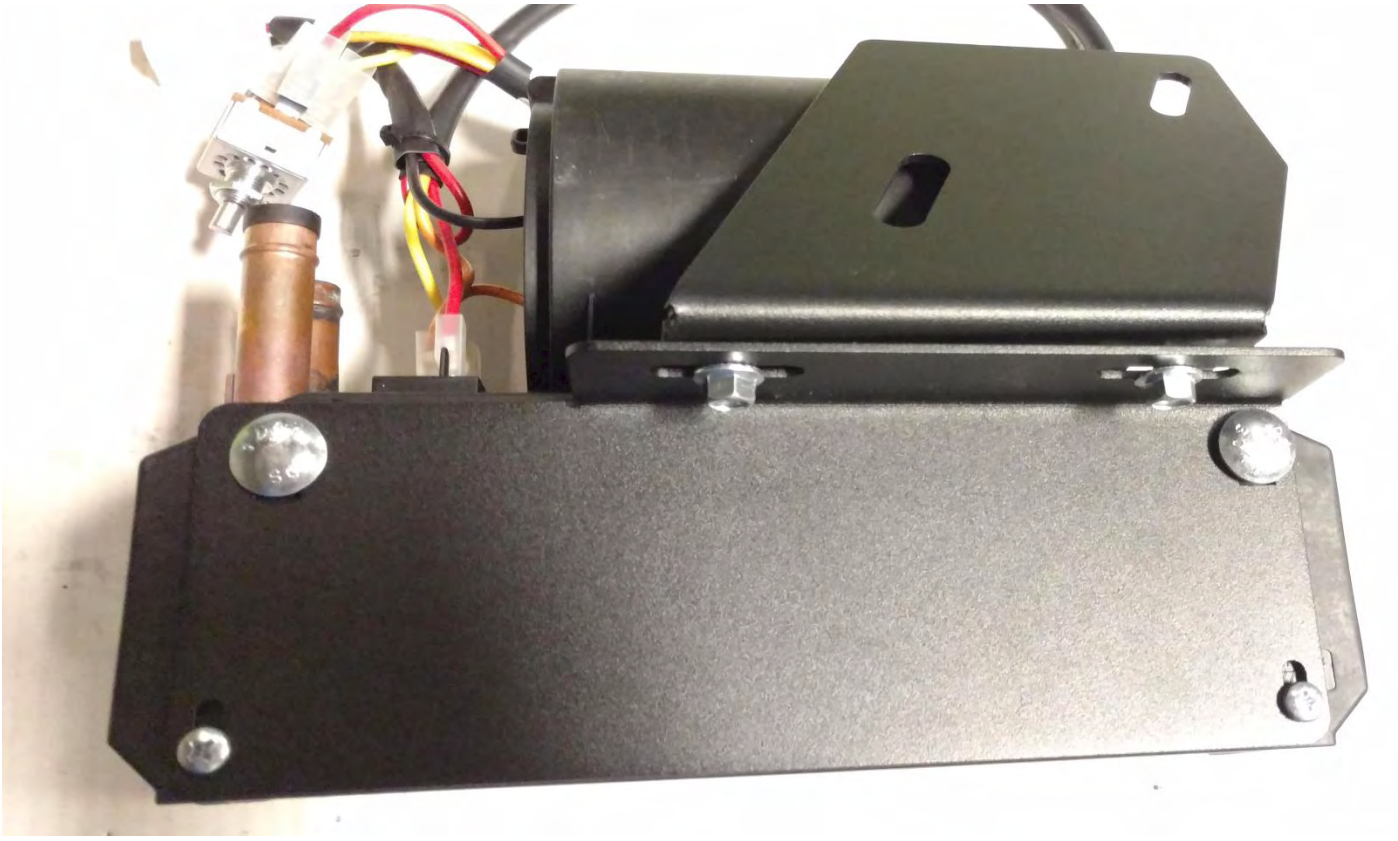


Figure 12b

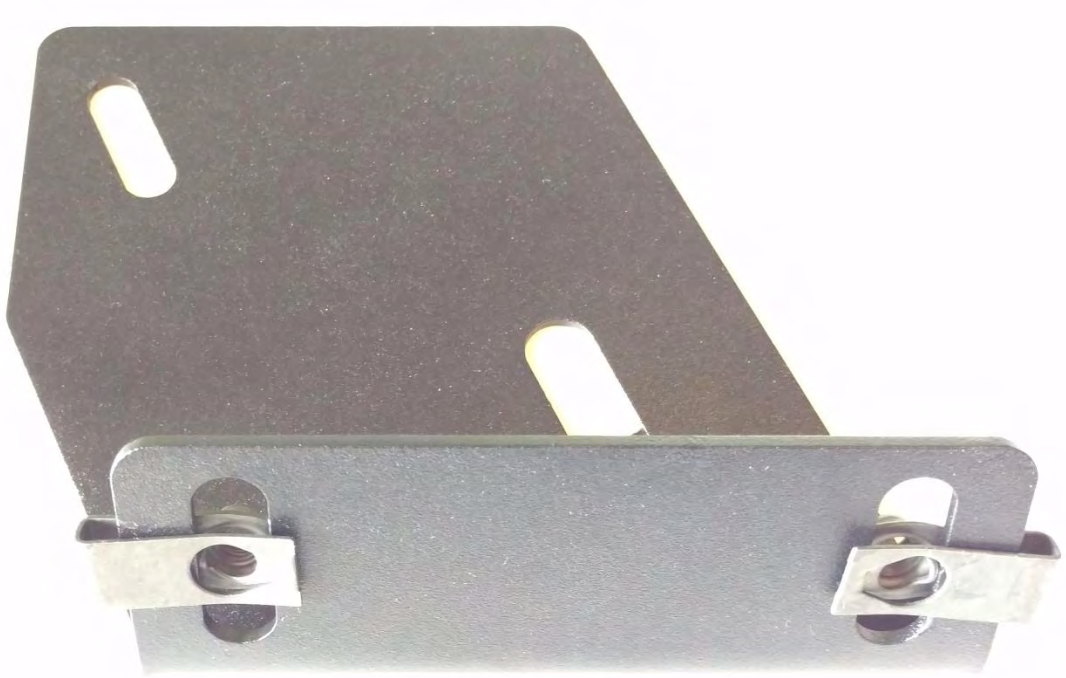


Figure 12c

Figure 13

Can Am Defender Under Dash Heater Instructions

Figure 14

Figure 15

Can Am Defender Under Dash Heater Instructions

Figure 16

Figure 17

Can Am Defender Under Dash Heater Instructions

Figure 18

Figure 19

Can Am Defender Under Dash Heater Instructions

Figure 20

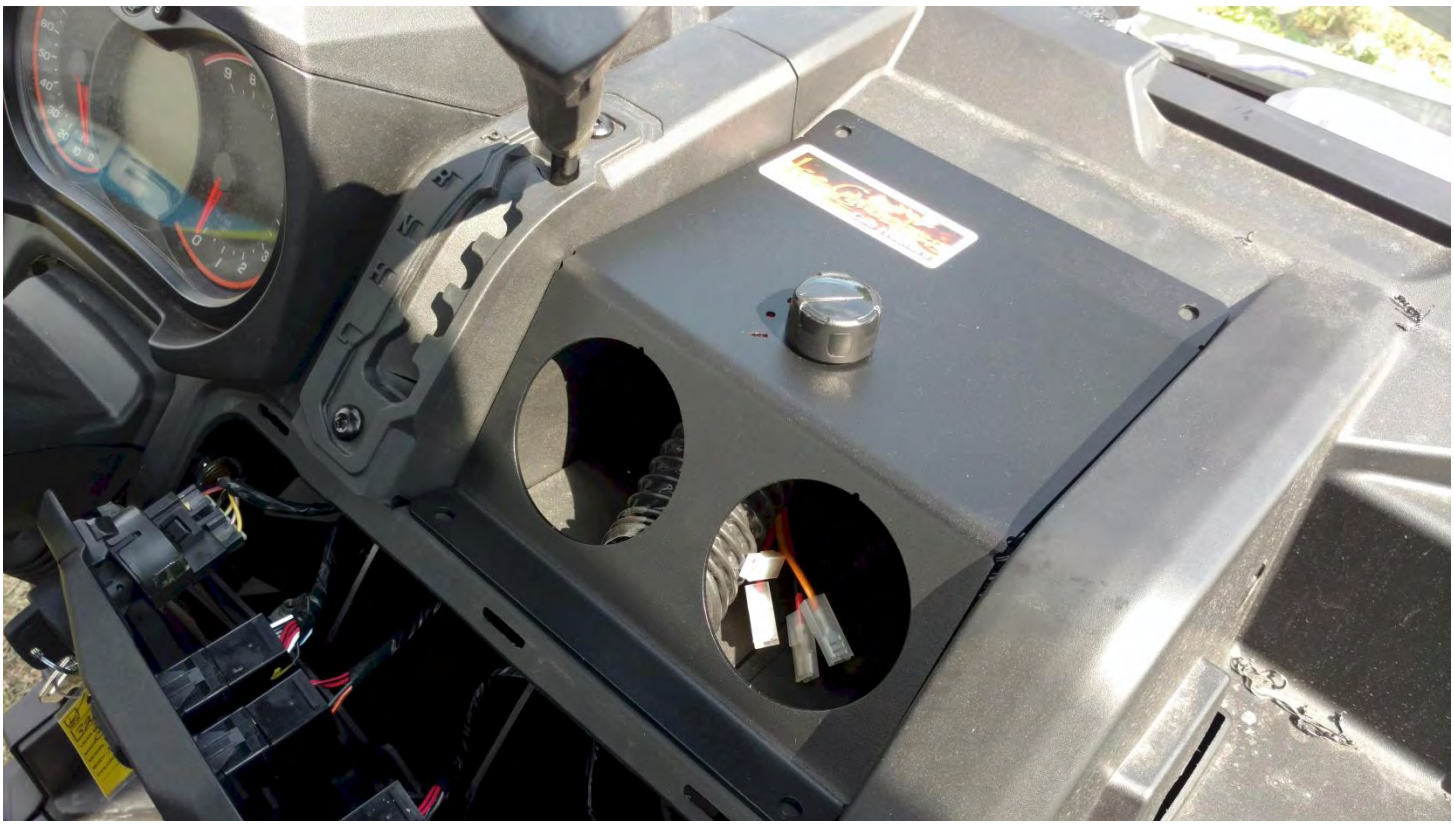


Figure 21a

Can Am Defender Under Dash Heater Instructions

Figure 21b

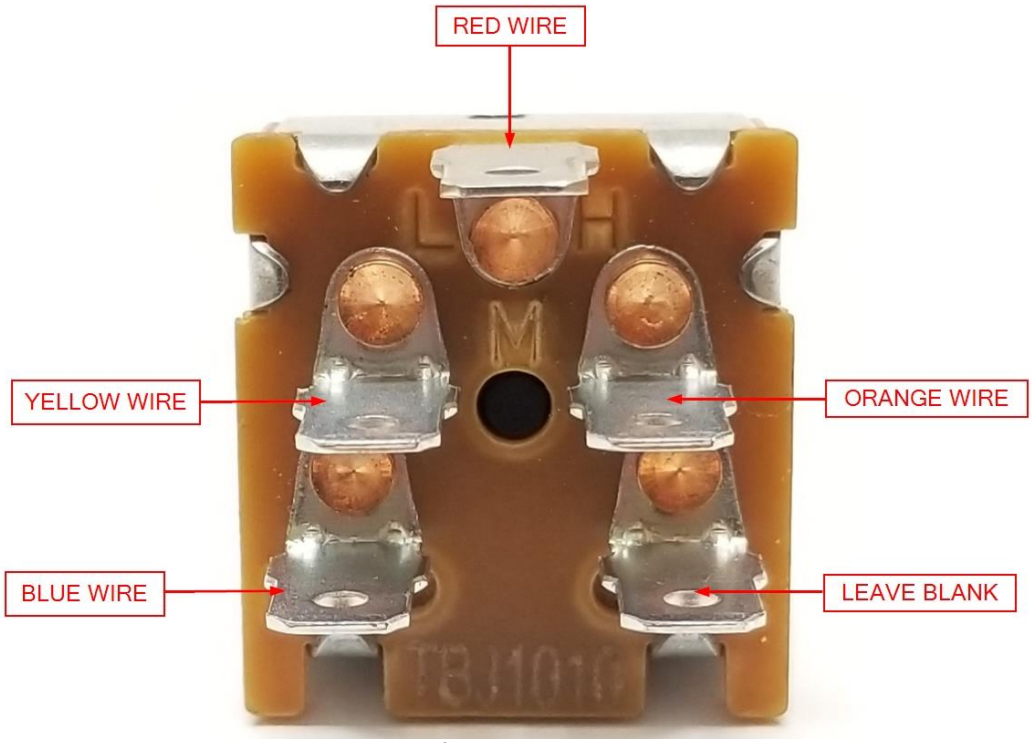


Figure 22

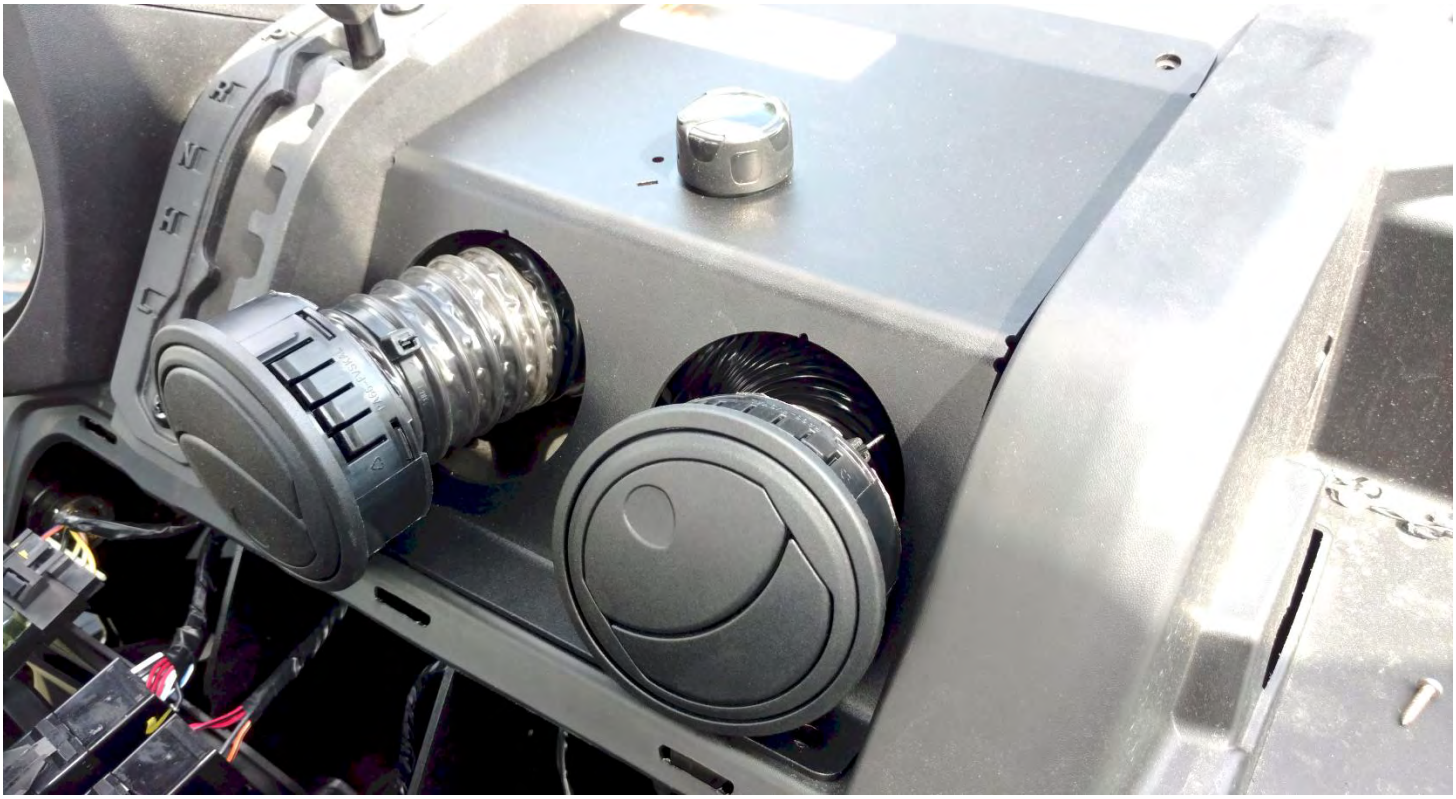


Figure 22b

Figure 23

Can Am Defender Under Dash Heater Instructions

Figure 24a

Figure 24b

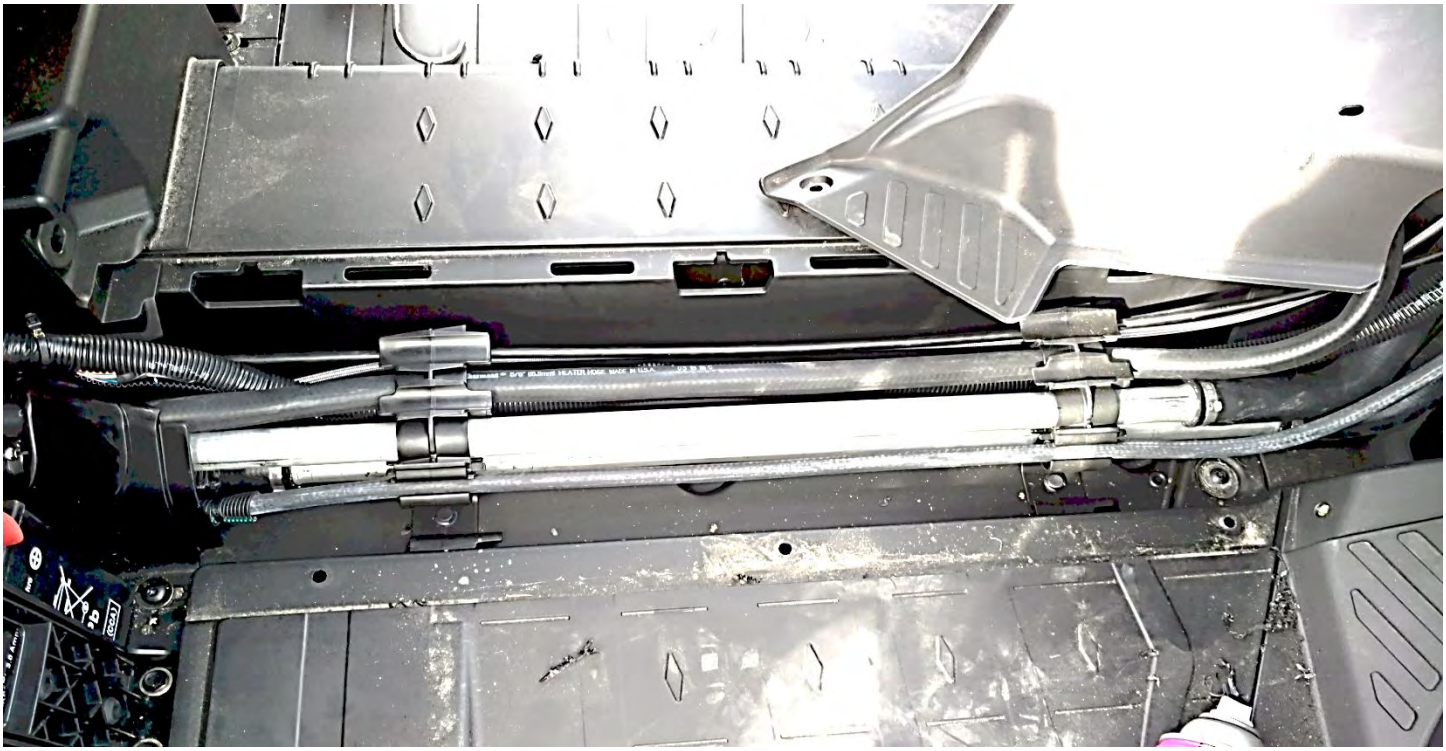


Figure 24c

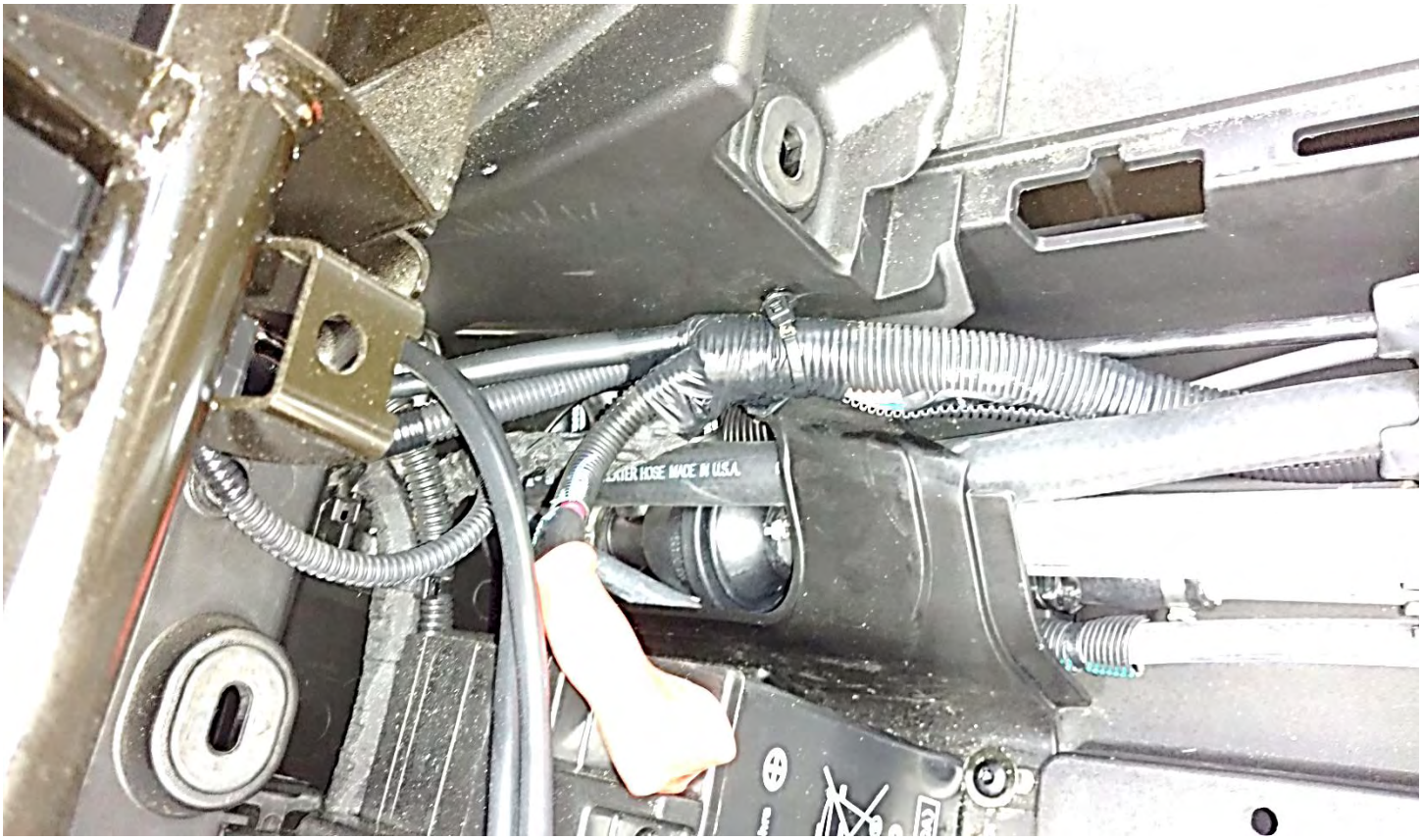


Figure 24d

Can Am Defender Under Dash Heater Instructions

Figure 25

Included in your Ice Crusher Heater Kit are our custom CNC made aluminum Y fittings. These Y fittings install into the UTV's cooling system as shown in the installation instructions. To assemble simply use Teflon sealing tape or pipe thread sealer on the supplied 5/8" brass fittings threads, thread into the Y fitting and tighten. Do not over tighten 5/8" brass fitting.

Can Am Defender Under Dash Heater Instructions

Figure 26a

Can Am Defender Under Dash Heater Instructions

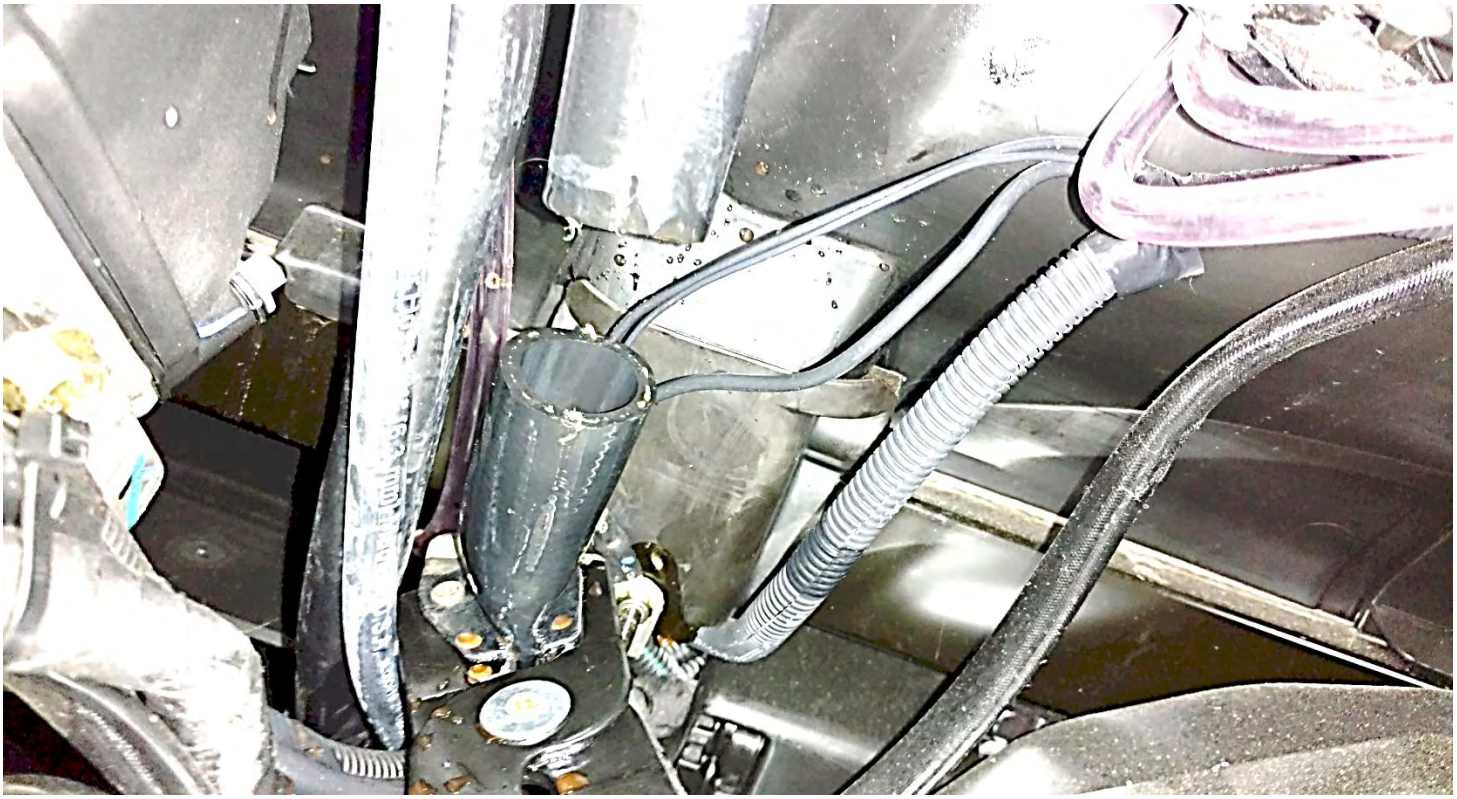


Figure 26b

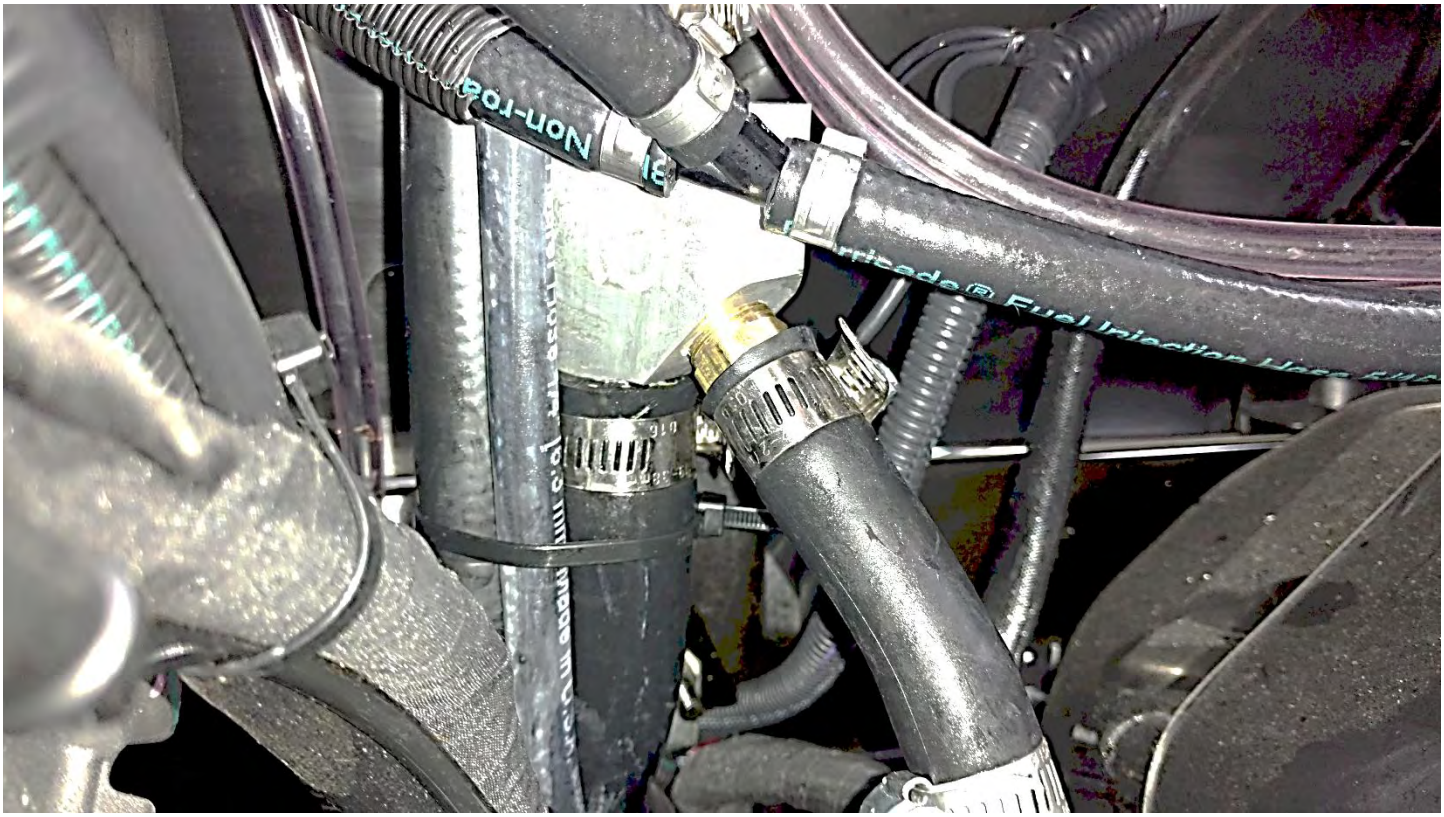


Figure 26c

Can Am Defender Under Dash Heater Instructions

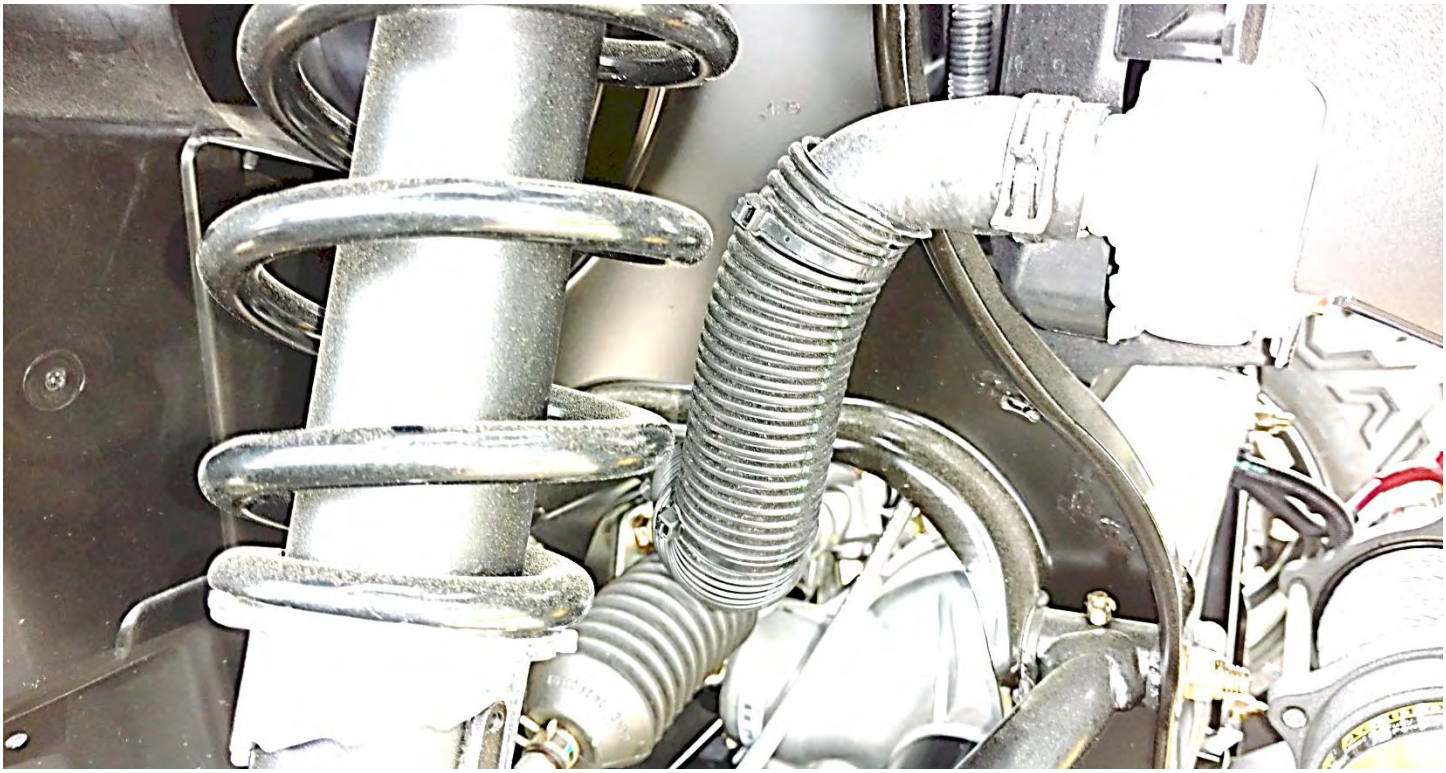


Figure 27a

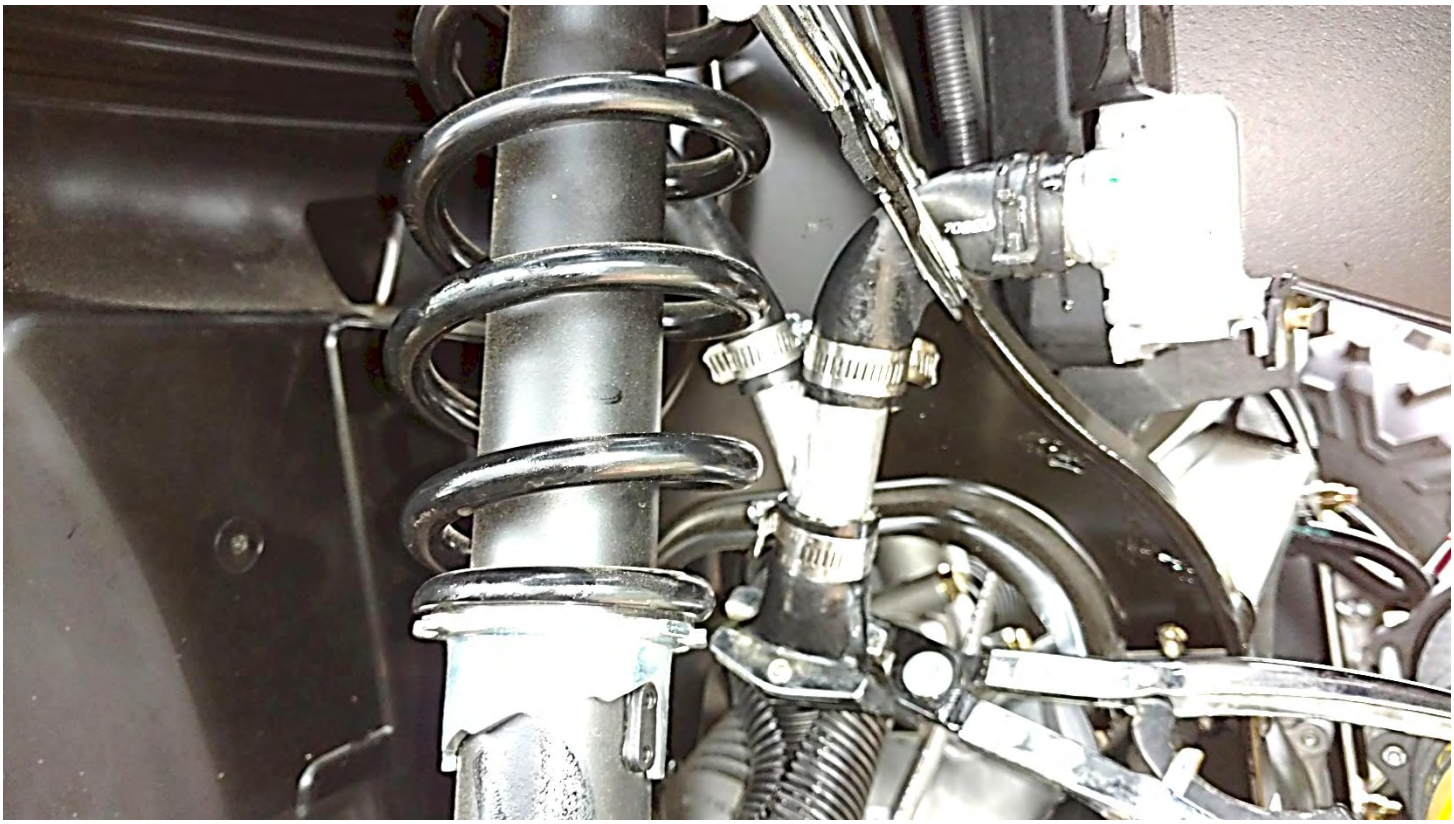


Figure 27b

Can Am Defender Under Dash Heater Instructions

Figure 28

Figure 29a

Can Am Defender Under Dash Heater Instructions

Figure 29a

Can Am Defender Under Dash Heater Instructions

HEATER WARRANTY – utvheaters.com and 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.

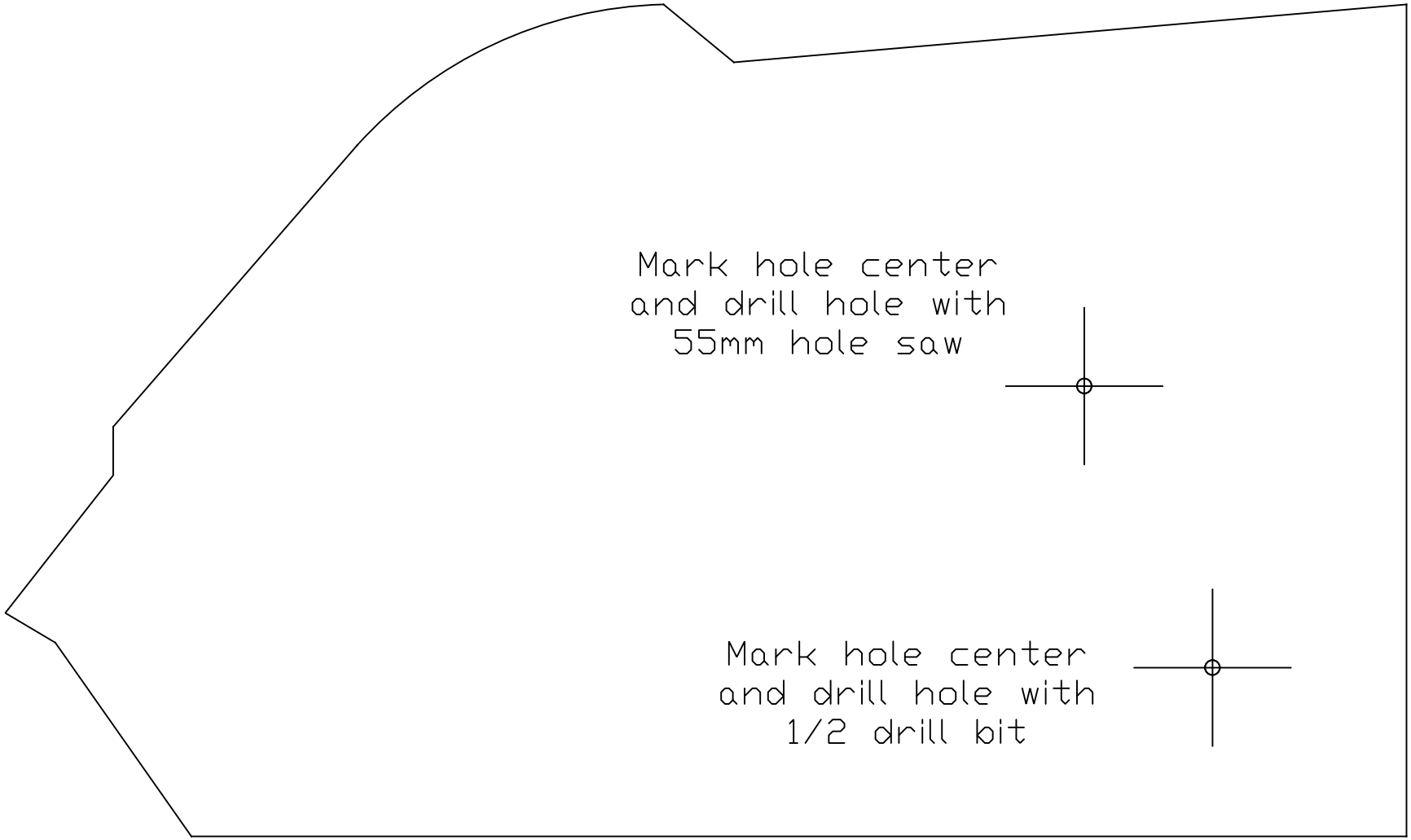
This warranty is Couper's Products only express warranty of this product. We reserve the right to make changes to products and policy that are in the best interest of Couper's Products. No implied warranty shall extend beyond One (1) or Three (3) year period from the date of the original consumer (end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

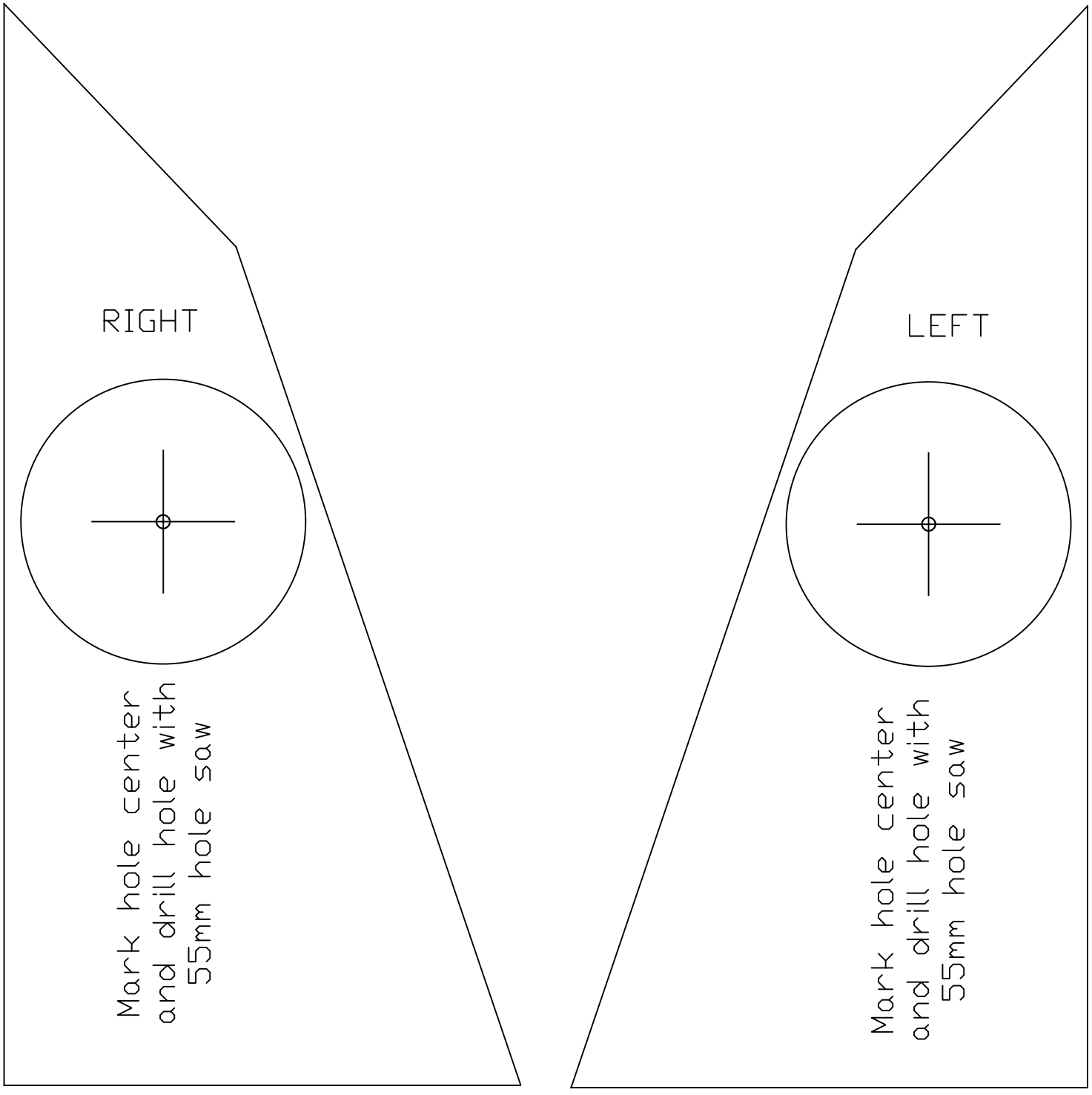
Ice Crusher Heaters
23001 Industrial Blvd
Rogers, MN, 55374
888-964-0135

Center Vent Hose Template as shown in Figure 2b



Defrost Vent Template as shown in 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.



Heater Hose Template as shown in Figure 5