

# Can-Am Maverick X3 (2017 - Current)

## Under Seat Cab Heater w/ Defrost



## **Tools Required:**

Drill

7/16" nut driver

Crescent wrench

1/8" Drill bit

2.00" \_Hole Saw

Flat Screwdriver

Philips Screwdriver

Tape

3/8 Socket wrench

13, 16, 18 mm sockets

Utility Knife

50/50 Antifreeze

Bucket/Catch Basin for Draining Coolant

Jack (optional)

Jack Stands (optional)

## **STEP 1:**

1) Remove both driver and passenger seat using an extension drill with the following sockets.

- Rear Bolts: 18mm socket
- Front Bolts: 13mm socket
- Seat Belt: 16mm socket

2) Remove both driver and passenger side inner console panels, this is where the heater ducting and coolant lines will run.

3) Remove all dash panels on each side – these need to be removed for easier access to vent locations as well as running ducting.

4) Remove the panels on each side of the center console, this is where power, ducting and coolant lines will be run.

**Note: It is important to keep track of the location of all bolts, screws and mounting pins that are being removed.**

## **STEP 2: Running coolant lines**

5) Cut the heater hose into (2) 8-foot pieces.

6) Run both coolant lines through the transmission tunnel towards the front of the machine to the radiator being careful not to position the lines next to any moving parts.

7) Route 1 coolant line to the driver side of the radiator and 1 coolant line to the passenger side of the radiator.

8) Carefully select locations to cut the machine's radiator lines where the t's will be located. It is best to find a spot where the lines are straight and not curved.

9) Cut the coolant lines with a sharp bladed knife and use the supplied hose clamps to connect the T-Fittings to the coolant hose. (This is a messy process and is best to have towels and a catch basin for the coolant that will spill from the lines)

10) Secure the coolant lines to the frame with zip ties so not to rub against moving parts. (make sure not to kink the coolant lines)

11) The coolant lines will feed into the driver seat area by running through the driver side center console.

- Leave the heater hose under the seat, it will be trimmed to length and installed on the heater core in another step.



### **STEP 3: Install Coolant Hoses**

12) Attach both mounting brackets to the heater core using the 8 screws provided.

13) Set the heater core in the area beneath the driver's seat with the coolant tubes facing towards the back. (Do not secure to the floor at this point)

14) Take both coolant hoses from under the seat and turn them 180 degrees to create a nice curve in the line that is not kinked. (see picture)

15) Line the hoses up to the heater core, mark and cut the hoses to the correct length.

16) Wrap the spiral wrap on the ends of each hose. This will keep them from kinking.

17) Slide the hoses onto the heater core and secure with supplied hose clamps. (It does not matter which hose goes to what outlet.





#### **STEP 4: INSTALL LOUVERS AND RUN DUCT**

Installing the vents will require a 2" hole saw and the provided hole template guides.

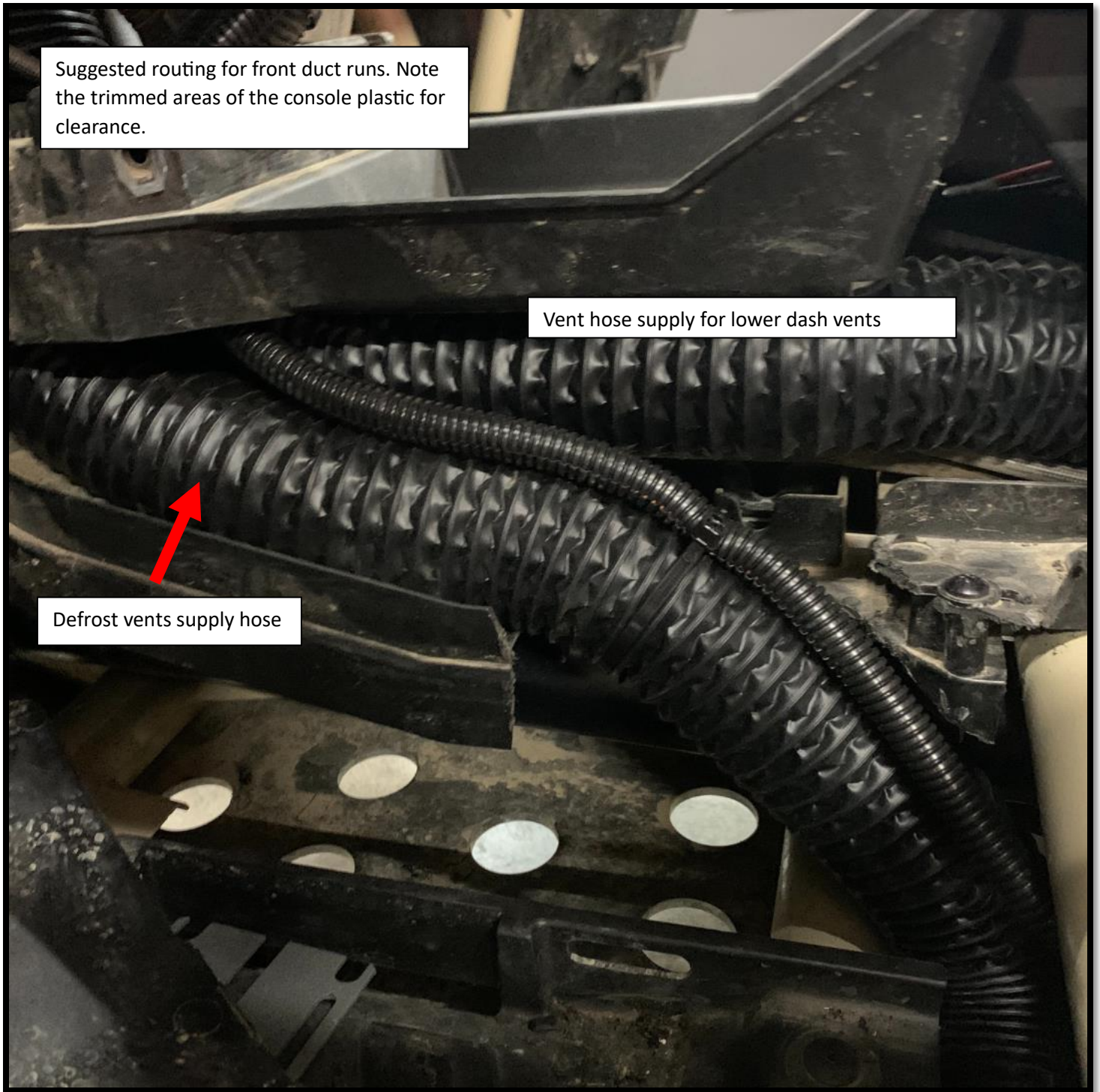
18) Cut 2 lengths of 2" ducting 8' each.

19) The 2 ducts going to the front of the vehicle from the heater core will require some trimming of the inner console plastics. See the pictures for suggested trimming. The fit of these hoses will vary from machine to machine. We recommend a Dremel or multi tool to cut this plastic. (it is best to trim the plastic in small chunks to avoid removing too much)

Trim center console plastics to accommodate both heat vents running to the front of the machine







20) Starting at the heater core attach the 2 pieces of the duct that will go to the front of the vehicle to the heater core. Starting from the console side the order that the ducts are installed is 1. Rear 2. Lower dash 3. Defrost (see picture below)



Use a 2" hole saw to create a notch for the lower dash vent supply hose cutout.





Use a 2" hole saw to create a notch for the rear vent hose if used.

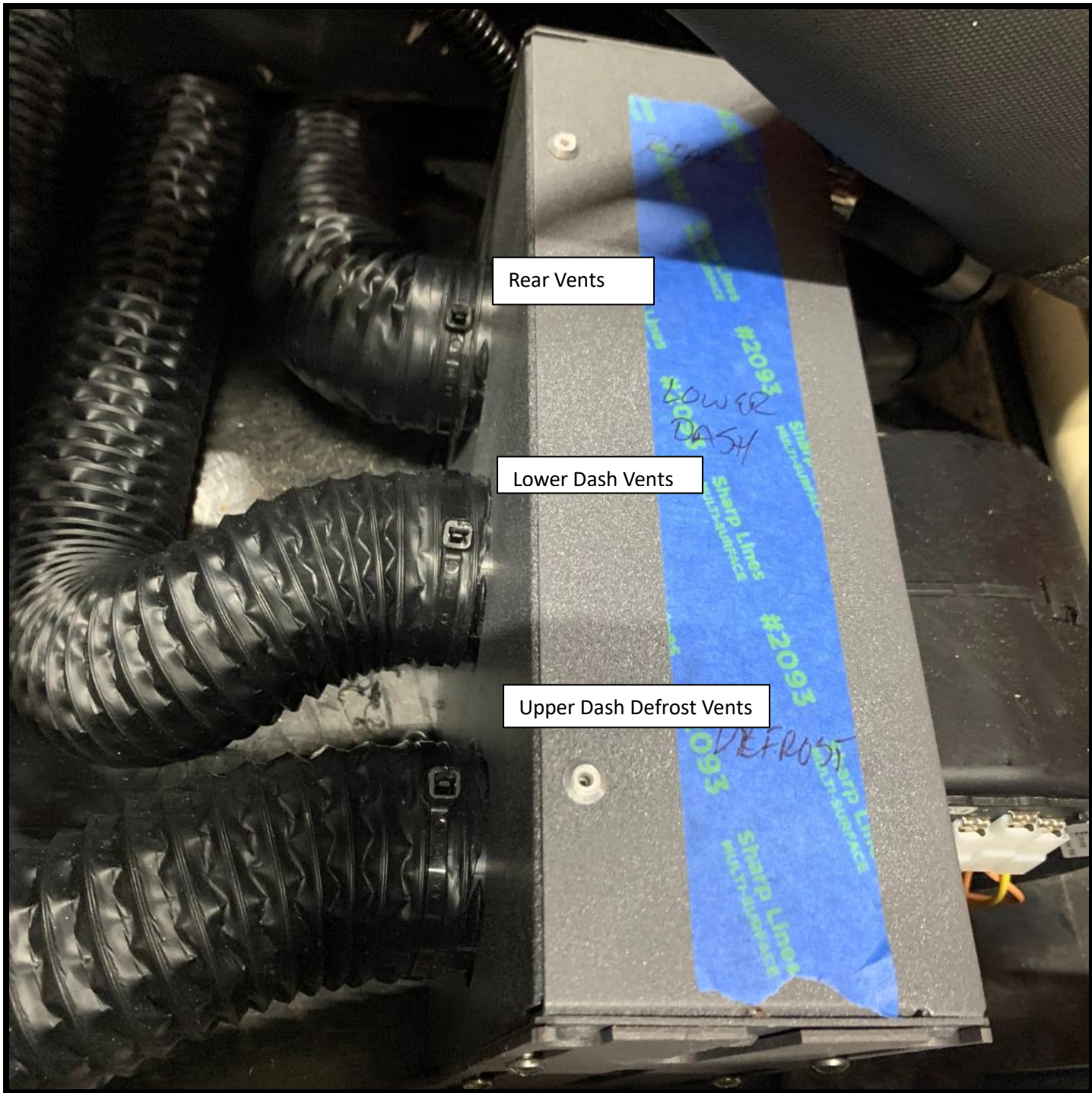




Lower vent hose installed (left)

Rear vent hose installed (right)



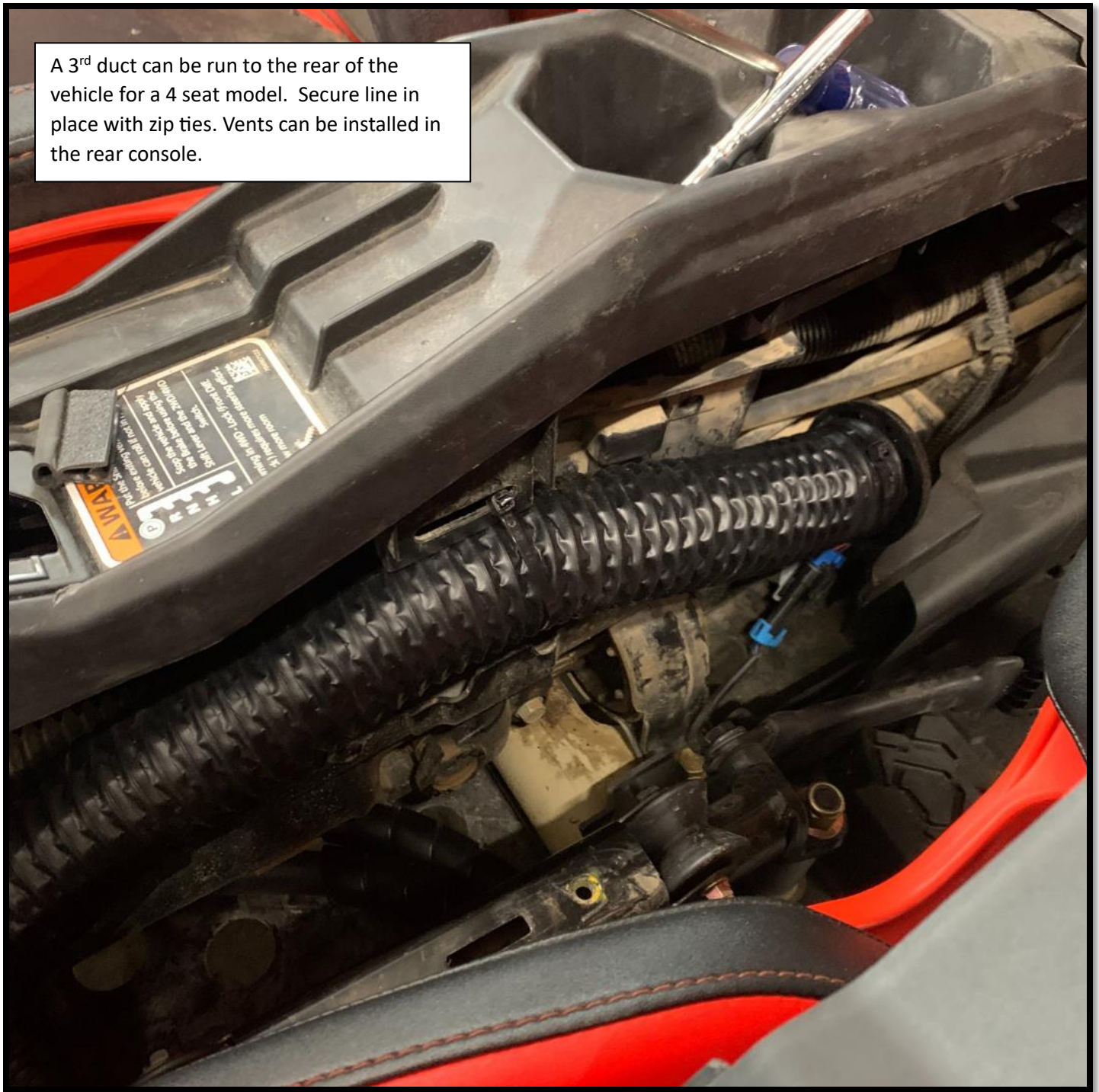


Rear Vents

Lower Dash Vents

Upper Dash Defrost Vents

A 3<sup>rd</sup> duct can be run to the rear of the vehicle for a 4 seat model. Secure line in place with zip ties. Vents can be installed in the rear console.





### Lower Dash Vents

- 21) Attach 1 of the plastic 2" Y connectors to the end of the lower dash duct hose (#2 on the heater core)
- 22) Attach 2 lengths of 12" to each side of the 2" Y connector.
- 23) At this time use the provided templates and a 2" hole saw to cut the outlet holes for the heater vent in the lower dash.
- 24) Snap in the lower louver vents and secure the 2" ducting with zip ties.



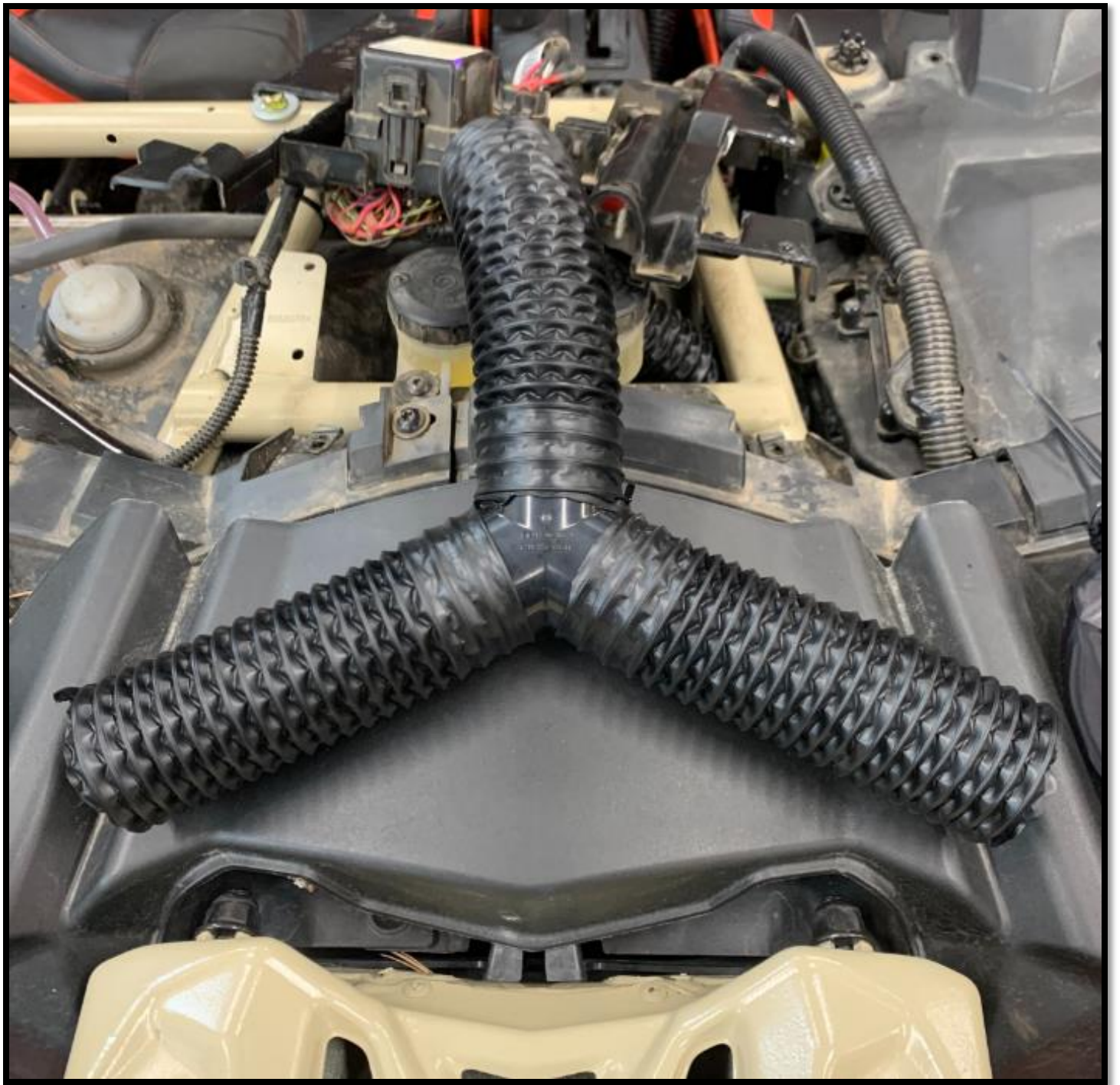


Passenger side lower vent placement

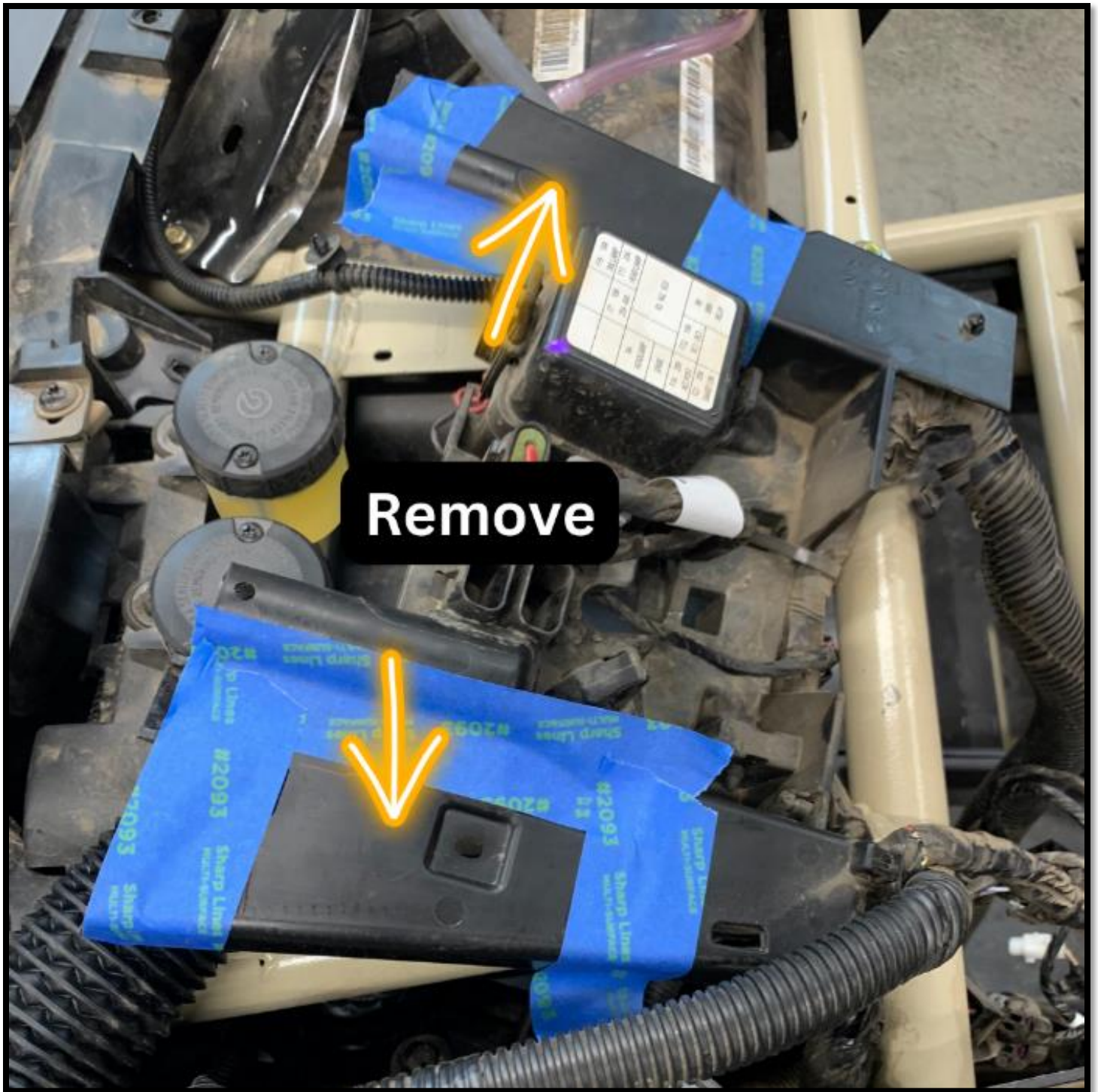


### **Upper Dash Defrost Vents**

- 25) Route the 2<sup>nd</sup> 2" hose from the heater core up through the center of the dash exiting just in front of the brake fluid resevoirs.
- 26) Attach the supplied 2" Y to this 2" duct hose and then attach a 12" length of duct to each of the other sides of the Y. (secure with zip ties)(see picture)
- 27) Remove the wiring panel under the center dash panel.
- 28) The wiring panel will need to be trimmed to fit the defrost vents. Refer to the picture on where to mark and cut the wiring panel.
- 29) Using the template supplied cut out the defrost vents in the upper dash panel using a 2" hole saw.
- 30) Snap the defrost vents into place and install the 2" ducting onto the vents. (secure with zip ties)
- 31) Screw the wiring panel back onto the upper dash panel (do not reinstall the upper dash panel until the wiring is complete)







**2 Seat Models move to step 5. For 4 seat rear vents see step 9 at the end of manual.**

**Step 5: MOUNTING THE HEATER CORE**

32) Once the ducting and coolant lines have been secured to the heater core mount the heater core to the skid plate of the machine by drilling 4 pilot holes and mounting the core using qty 4 ¼ 20 x 1" bolts and locknuts.

## **Step 6: WIRING**

32) Snap the Inner Demon Rocker Switch into the panel

33) Using the wiring harness supplied attach the wires to the switch (position 1 yellow, position 2 red, position 3 orange)

34) Route the wiring harness down through the dash. The power and ground will be routed down the passenger side of the console and the fan control wires will be routed down the driver side. Once in place secure with zip ties.

35) Attach the fan control leads to the fan matching orange to orange, black to black and yellow to yellow. (tip: wrap these connections with electrical tape to keep them from pulling apart)

36) Attach the power and ground wires to the bus bar on the passenger side center console.

37) Reinstall the passenger side transmission tunnel cover.



**Step 7: REASSEMBLY**

38) Re-Install all panels making sure to use the correct hardware.



### **STEP 8: REFILL COOLANT**

39) Refill the radiator and check for leaks (use overflow tank at the rear of the machine).

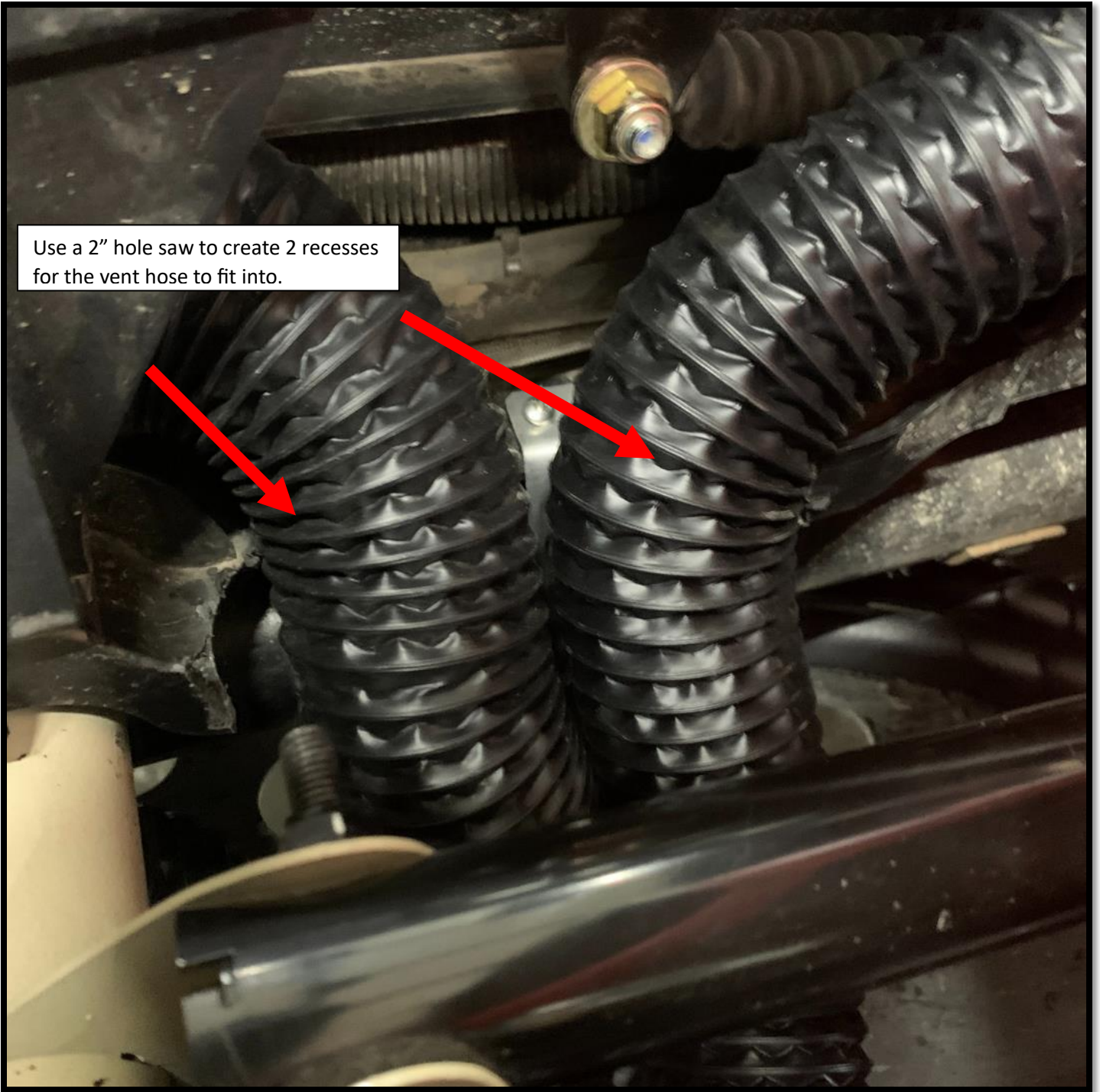
40) Start the machine and allow the engine to warm up and circulate the coolant.

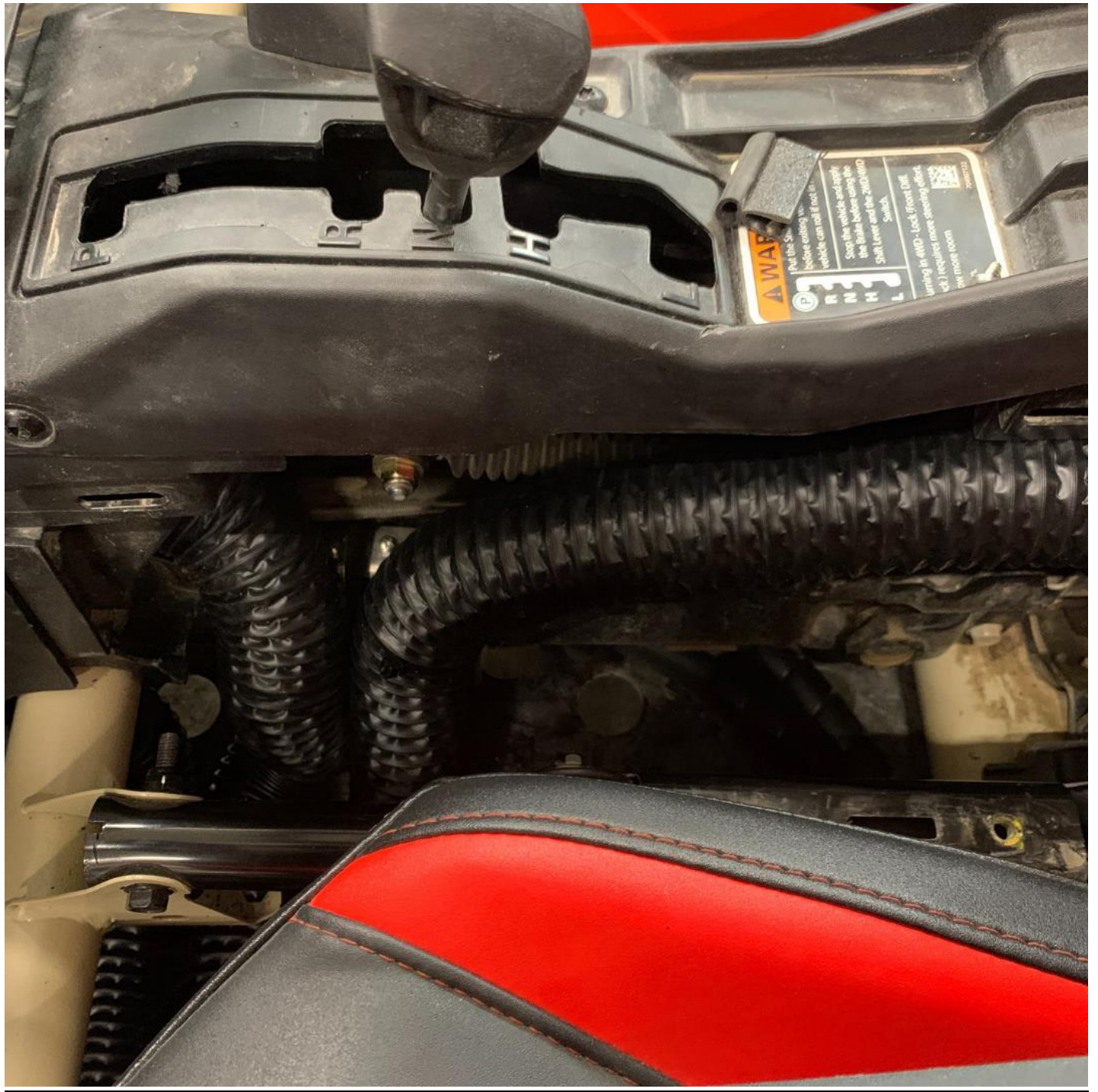
41) Drive the vehicle and put it under a good load, this will help expel air from the system.

42) When done let the machine cool down, recheck the coolant level and add to the overflow tank, if needed.

43) Coolant will be consumed as the air is expelled from the system. It is possible you will need to run the machine and recheck fluid levels multiple times before working out all the air.

Use a 2" hole saw to create 2 recesses for the vent hose to fit into.









## **4 Seat Rear Vents**

### **Step 9. Rear Vents for 4 seat models**

- 1) Find 2 locations on the rear seat transmission tunnel for the vents that will be unobstructed.
- 2) Attach Y adapter and secure with zip ties.
- 3) Attach 2 lengths of 12" duct to the Y adapter and secure with zip ties.
- 4) Using a 2" hole saw drill 2 holes in the transmission tunnel.
- 5) Snap the vents into the holes you just drilled
- 6) Secure vent hose to the back of the vents and secure with zip ties.
- 7) Reassemble the rear transmission tunnel.

Enjoy your new Heatercraft Heater

