



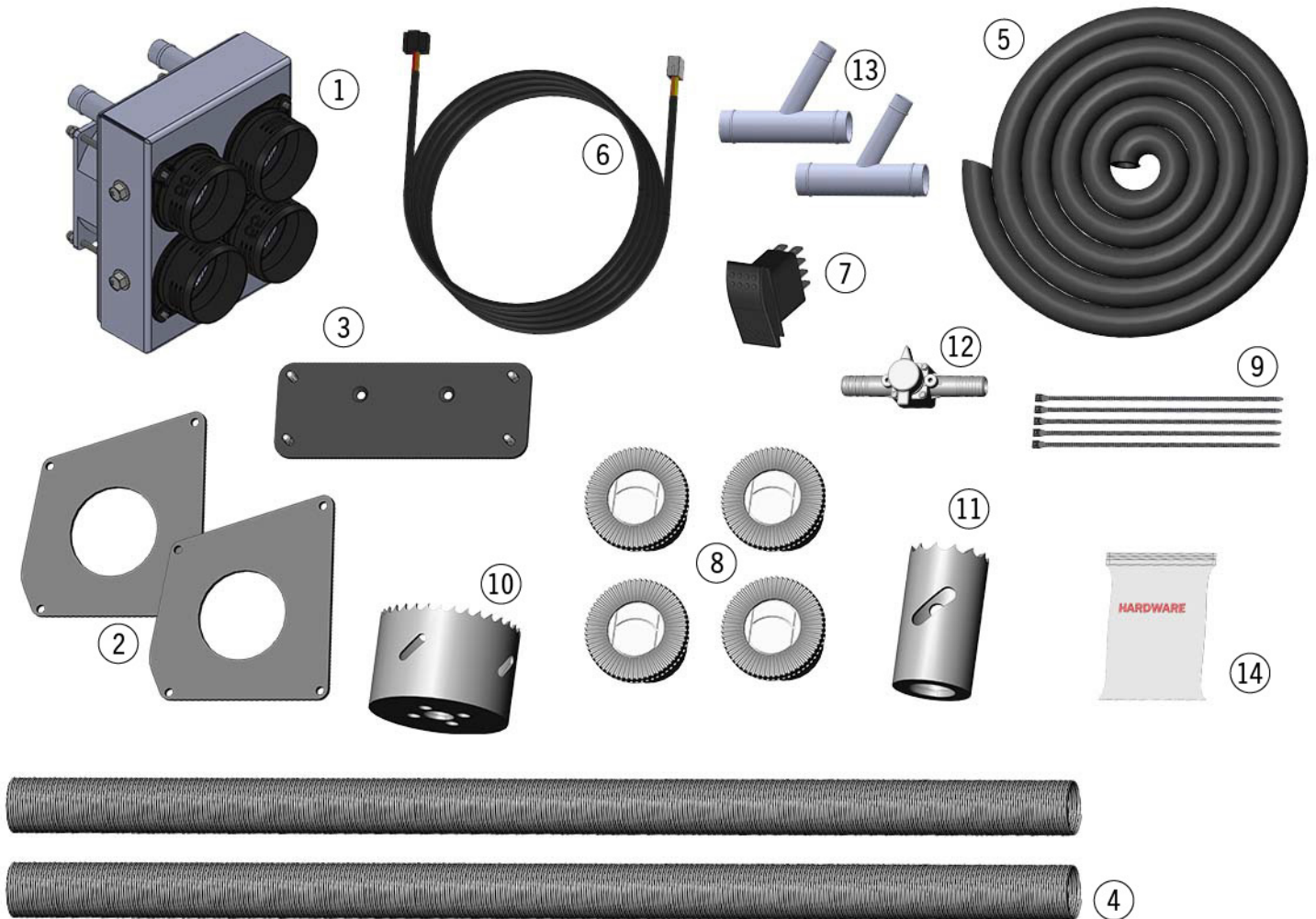
FIRESTORM
C A B H E A T E R S

Honda Pioneer 1000 Cab Heater

HT_CU_417

INSTALLATION INSTRUCTIONS

PARTS LIST



Part#	Qty	Item Description
1	1	FIRESTORM Cab Heater Unit
2	2	HT_CU_418-1
3	1	HT_CU_418-2
4	2	48" of 2" Compressed Duct Hose
5	1	10' Radiator Hose
6	1	96" Wiring Harness
7	1	FIRESTORM Dash Switch
8	4	2" Vent

Part#	Qty	Item Description
9	1	Zip Ties
10	1	2" Hole Saw
11	1	1-1/4" Hole Saw
12	1	Plastic Shutoff Valve
13	2	1" Aluminum Y
14	1	Hardware
	1	Grommet
	4	1/4-20 Nylock Nut

Part#	Qty	Item Description
	4	1/4 Washers
	1	M6-1.0 Nylock Nut
	8	Self-Tapping Screws
	4	#16 Hose Clamps
	6	#10 Hose Clamps
	2	M6-1.0x12mm Flat Head Cap Screw



Please read all instructions before beginning installation. Verify that all parts listed are present.

We have found that several steps in this installation are easier with two people. We recommend finding a partner to assist with this installation.



When working on cooling systems, always allow vehicles to cool to avoid being burned or scalded by hot coolant.

Before working with any electrical system on your vehicle, **ALWAYS** remove the negative battery cable and secure it away from the battery terminal.

Figures Color Key

 Parts native to the machine

 Parts native to FIRESTORM Cab Heater

PREPARATION

1. Remove the front hood.
2. Remove the driver side wheel well shield. FIGURE 1

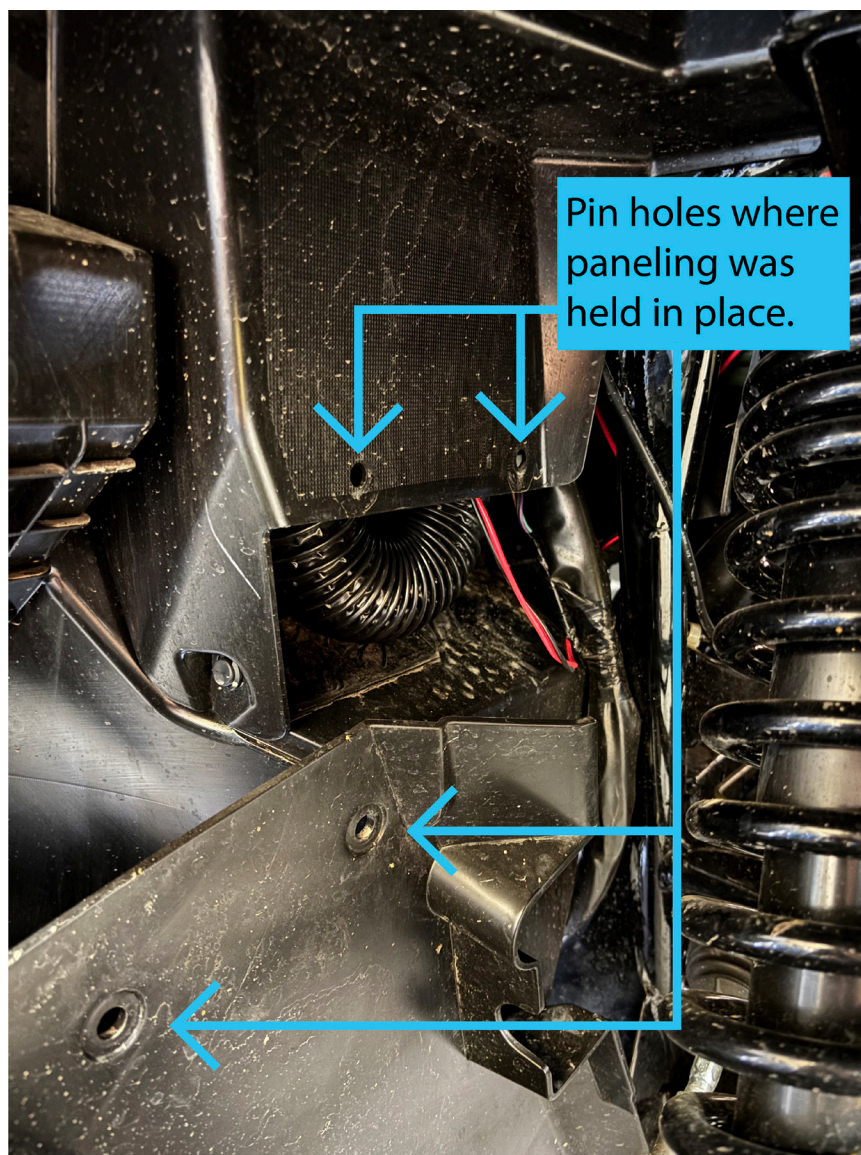


FIGURE 1

3. Remove the front skid plate behind the front differential.
4. Remove the cup holders.
5. Remove the rubber flap next to where the steering column enters the front of the machine. FIGURE 2
6. Remove the small firewall cutout. FIGURE 3

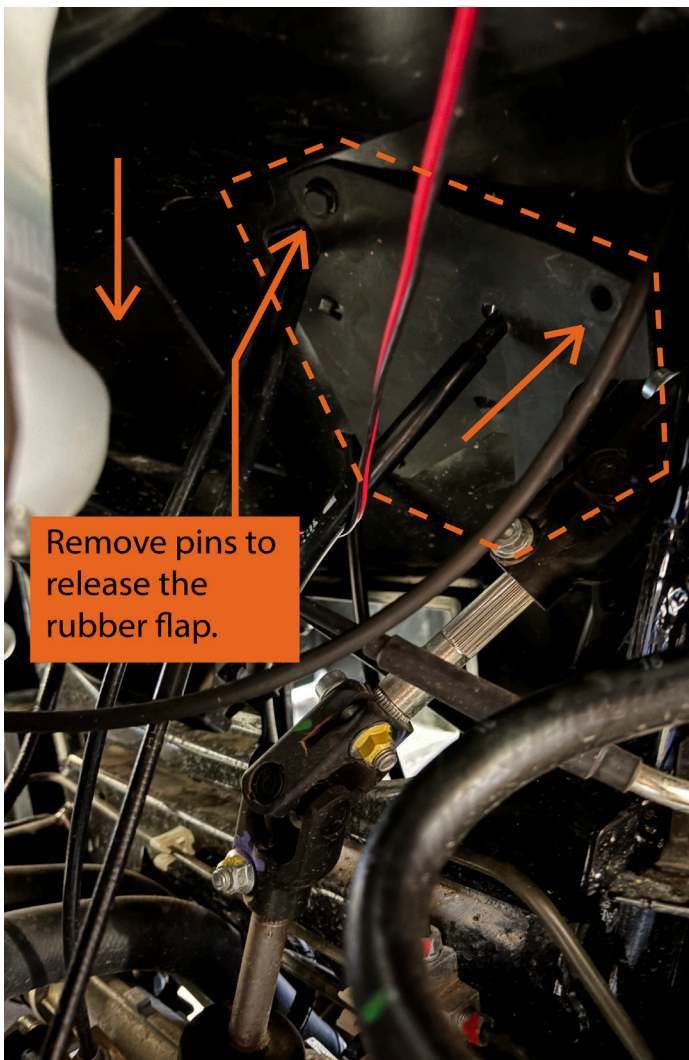


FIGURE 2

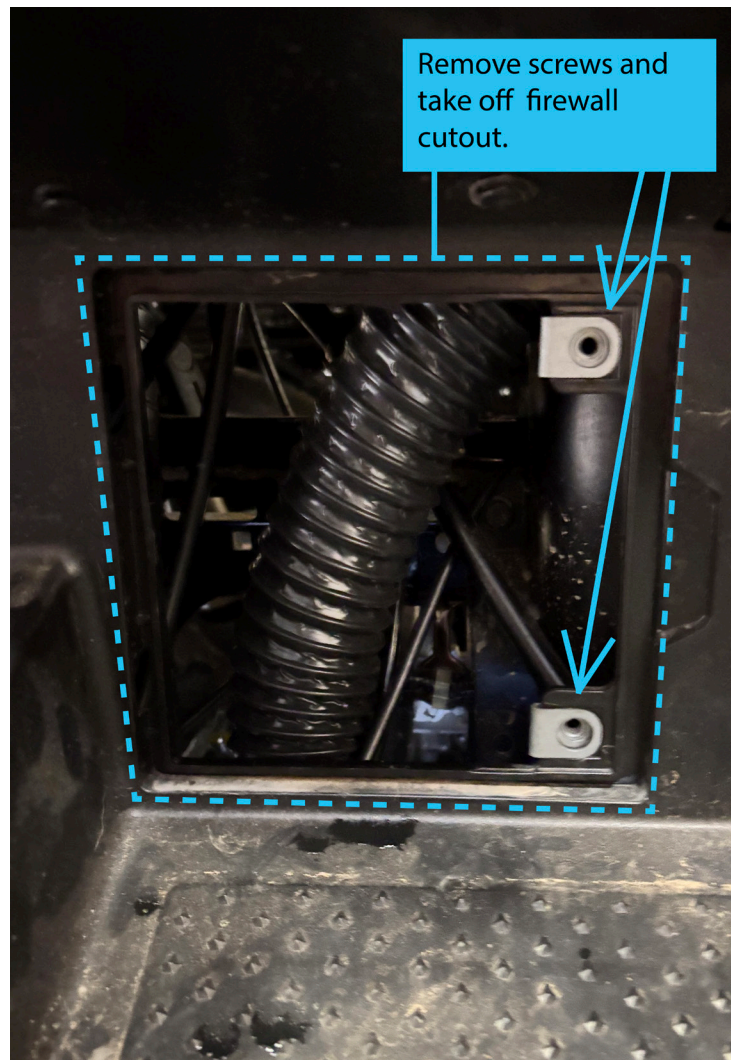


FIGURE 3

7. Remove the seat.
8. Remove the plastic covers over the engine compartment and the storage compartment under the driver seat.
9. Remove the driver seat side panel.

DEFROST VENTS

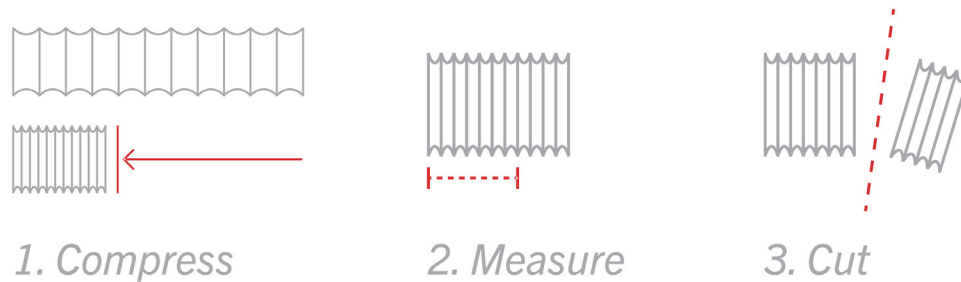


FIGURE 4

10. Cut the two 48" duct hoses into two 30" compressed sections. FIGURE 4
11. Run one of the hoses into the driver side cup holder and under the metal bracket.
12. Reach in through the hood to reach the hose and direct it over the steering column.
13. Route the hose through the hole in the firewall, where the rubber flap was, and route it into the drive shaft tunnel. FIGURE 5

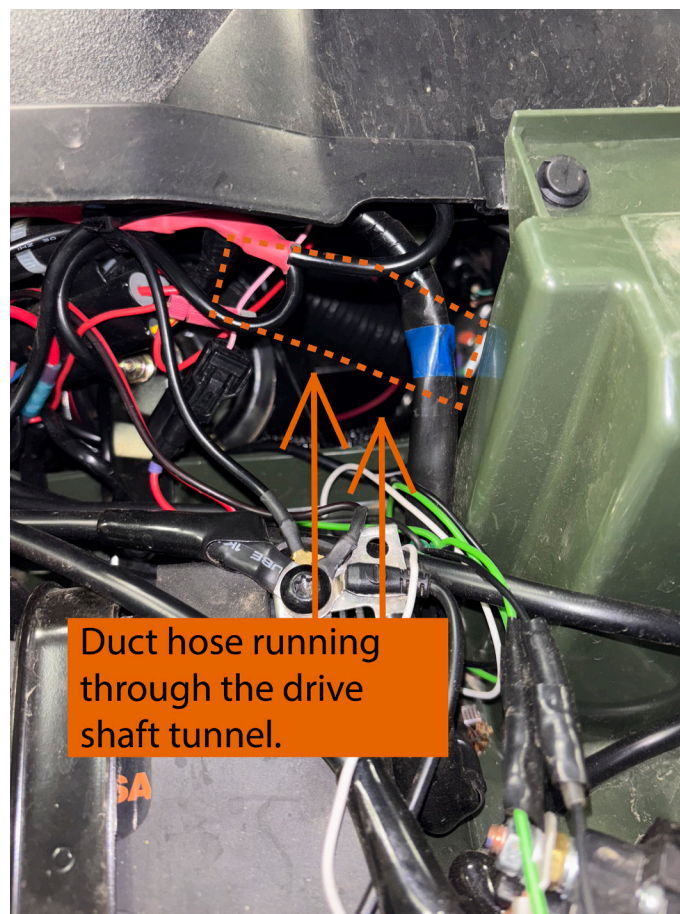


FIGURE 5

14. Feed it through the drive shaft tunnel and into the engine compartment.
15. Route the other 30" duct hose into the passenger side cup houlder until you can see hose in the passenger side wheel well. FIGURE 6
16. Route the hose behind the air intake and feed it into the drive shaft tunnel. FIGURE 7

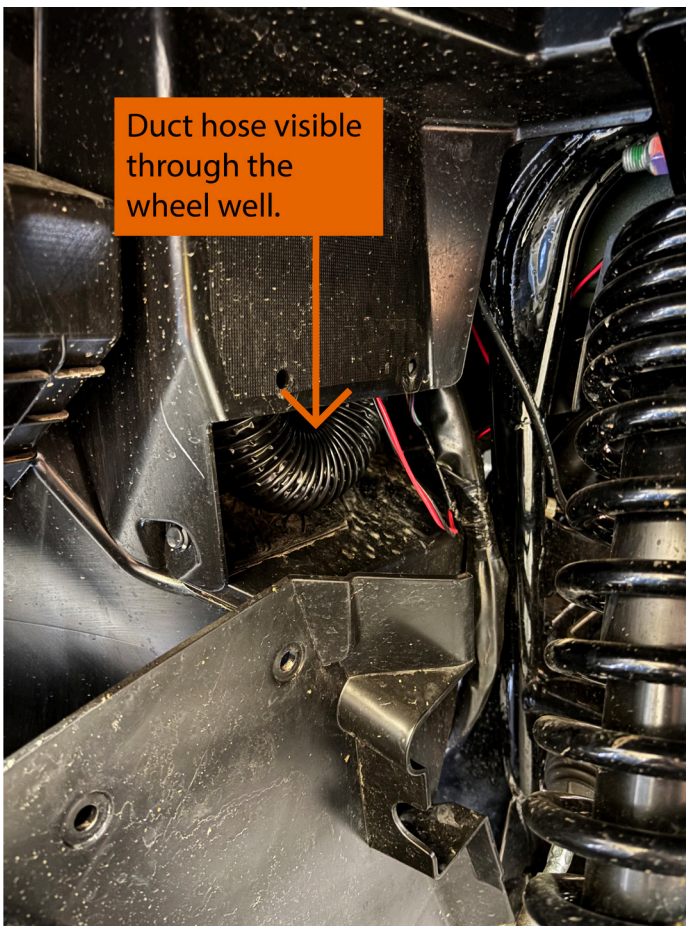


FIGURE 6

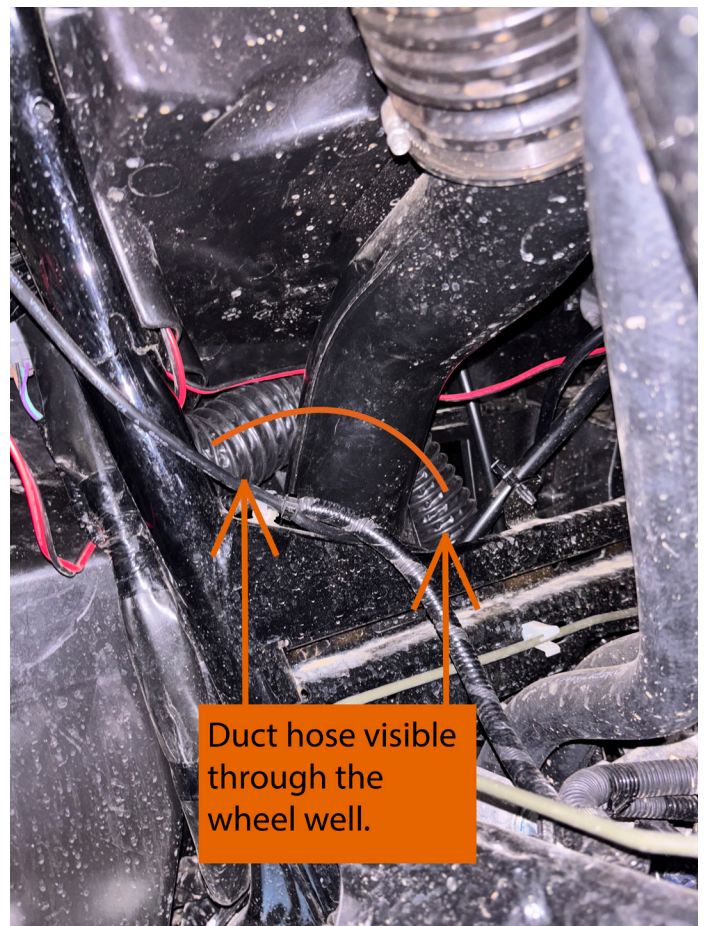


FIGURE 7

17. Route the hose through the drive shaft tunnel into the engine compartment.
18. Using the 2" hose saw, cut three holes under the driver seat into the engine compartment. FIGURE 8

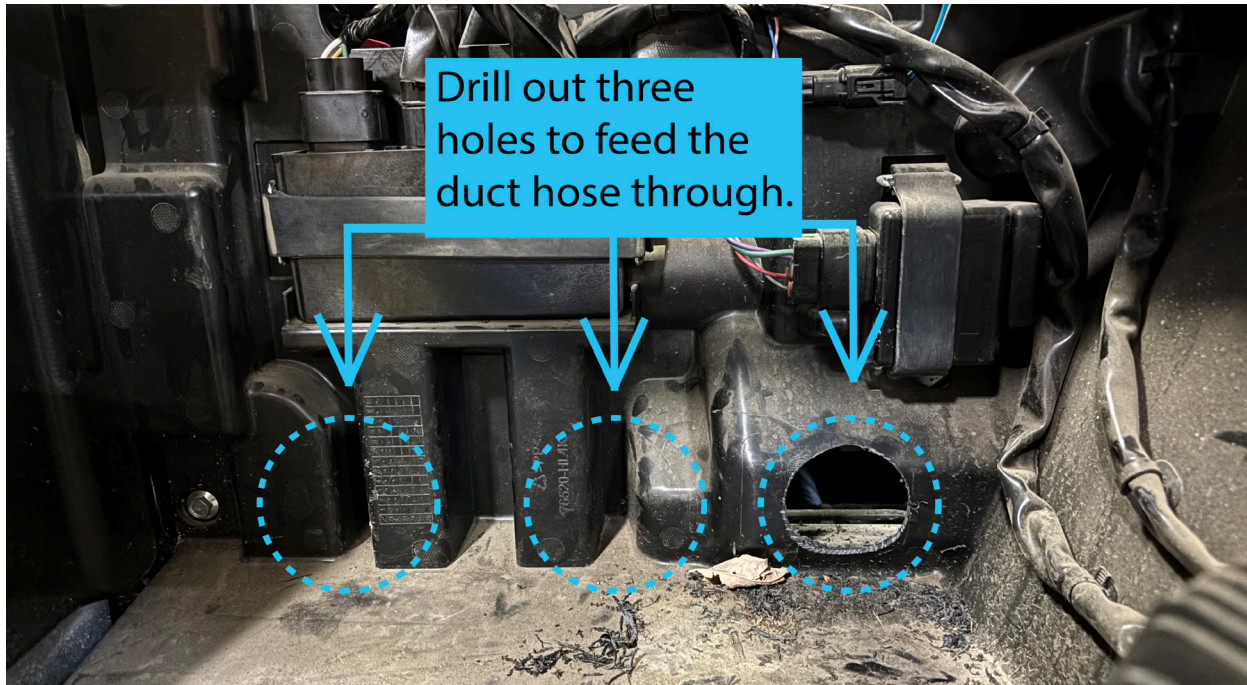


FIGURE 8

19. Route duct hoses into the storage compartment under the driver seat, using the back two holes.

Heater Mounting

20. Cut out the heater mount template.

21. Place template over the screw hole on the bottom of the plate FIGURE 9

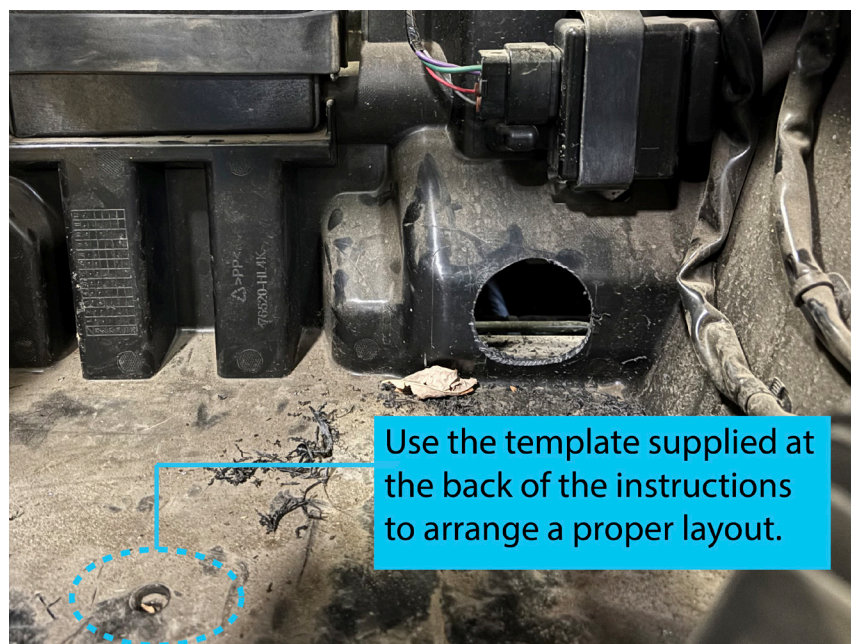


FIGURE 9

22. Place the heater on the template and verify the duct hoses are able to connect to the heater.
23. Use a 5/16" drill bit to drill out the four holes for the mount.
24. Remove two bolts from the heater frame and use the flat head screws to connect the heater to the mount.
25. Have the heater fan facing the back of the machine and the connections for the radiator hose facing the driver side. FIGURE 10

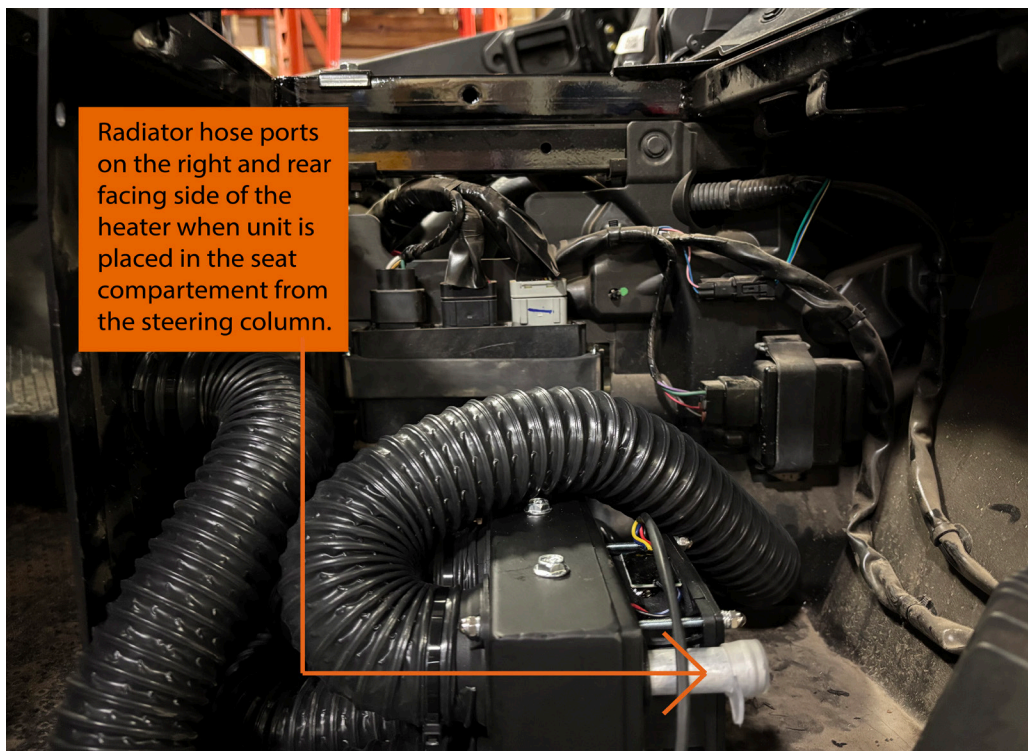


FIGURE 10

26. Connect the mount to the machine using the 1/4" nylock nut and washer.

FOOT VENTS

27. Cut out templates and place them on the marked sections on the raised area under the seats.
FIGURE 11
28. Use the 2" hole saw to cut out the two foot vents from the templates.
29. Insert the vents and route the remaining duct hose from the heater to the vents and trim any excess.
30. Secure with duct hose to the vents and heater with zipties.

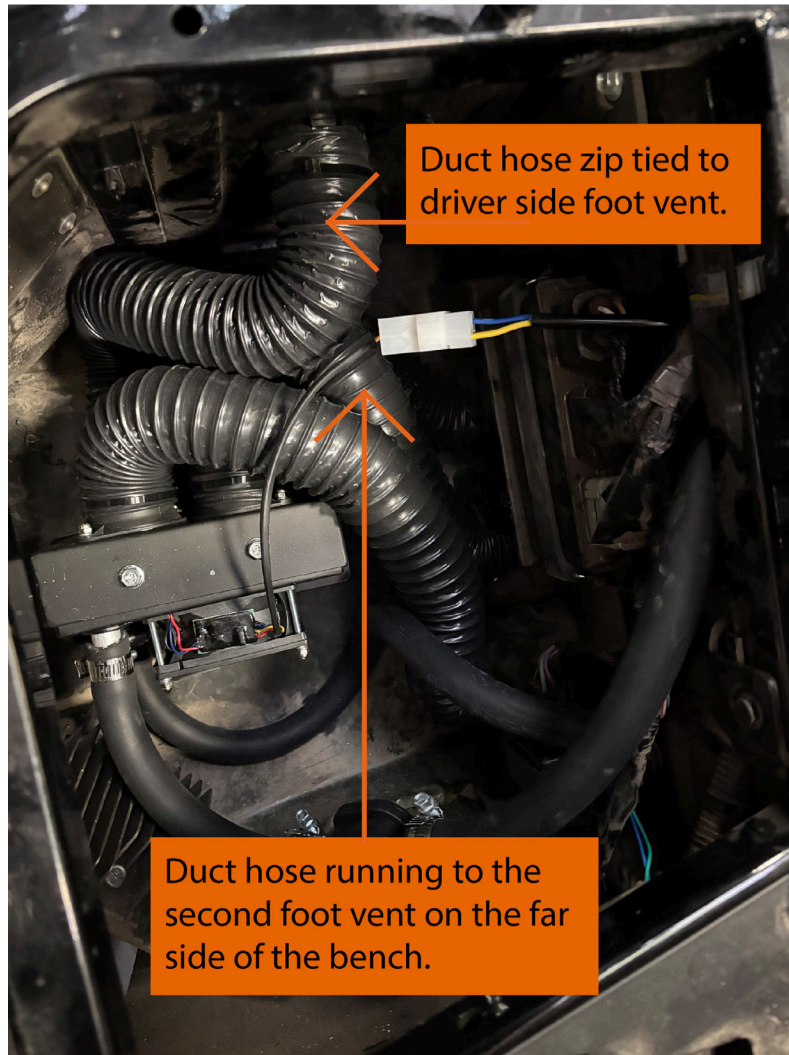


FIGURE 11

RADIATOR HOSE

31. Use 1 1/4" to drill out one hole in the plastic firewall between the drivers under seat storage compartment and engine compartment. Insert rubber grommet. FIGURE 12



32. Cut the radiator hose in half.

FIGURE 12

33. Connect both hoses to the heater and secure with #10 hose clamps.

34. Run the lower radiator hose through the rubber grommet and into the engine compartment.

35. Locate the inlet line to the radiator. FIGURE 13

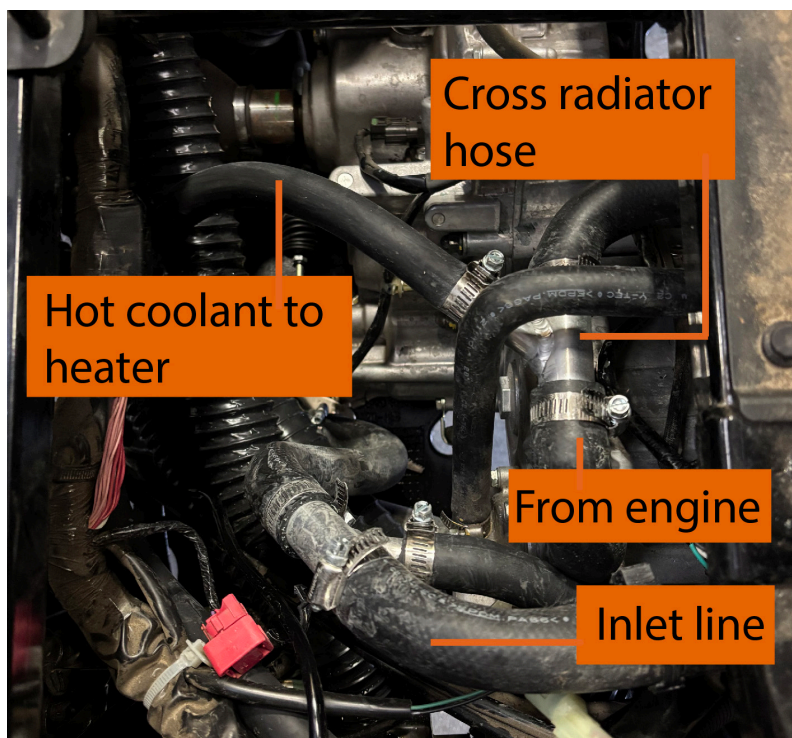


FIGURE 13

36. Clamp and cut the line, insert Y with it facing up and secure with #16 hose clamps.
37. Secure the radiator hose from the heater to the Y with #10 hose clamp, trim any excess hose.
38. Run the top radiator hose from the heater through the cutout.
39. Locate cross radiator hose on the engine. FIGURE 13
40. Clamp and cut the line, insert the Y with it facing the passenger side and secure it with #16 hose clamps. FIGURE 13
41. Secure the radiator hose from the heater to the Y with #10 hose clamps, trim any excess hose.
42. On the top radiator line on the heater locate a spot under the driver seat for a shutoff valve.
43. Cut hose and insert the shutoff valve, secure with #10 hose clamp.

ELECTRICAL

44. Connect with 96" wiring harness to the dash switch and feed the wiring harness through the dash switch cutout.
45. Route the red and black wire into the hood of the machine.
46. Route the white plug through the dash and out the cutout where the rubber flap covered.
47. Route the wiring through the tunnel and to the heater.
48. Connect the black wire to the ground of the battery and connect the red wire to an accessory power source using a displacement crimp.

BLEEDING THE COOLANT SYSTEM

Read entire section before proceeding

 Some amount of air will have made its way into the coolant system. The following bleeding procedure must be performed to eliminate the air and obtain heat. The following procedure is most easily accomplished with the help of a partner.

49. Fill the radiator with coolant until it is full.

 Look at owner's manual for manufacturer-approved coolant

50. Open the shutoff valve.

51. Close the radiator cap and drive the machine around until heat comes through the vents or the machine's engine temperature goes above 200°F.

52. Turn off the machine and wait for it to fully cool.

53. Open the radiator cap and add more coolant.

54. Repeat the steps in this section until consistent heat is coming out of the vents and the machine temperature gauge stays under 200°F.

55. Check for any leaks and clean up any coolant that spilled out during this process.

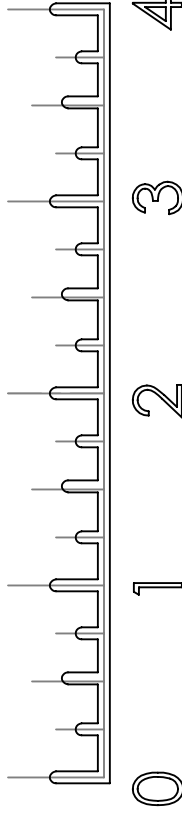
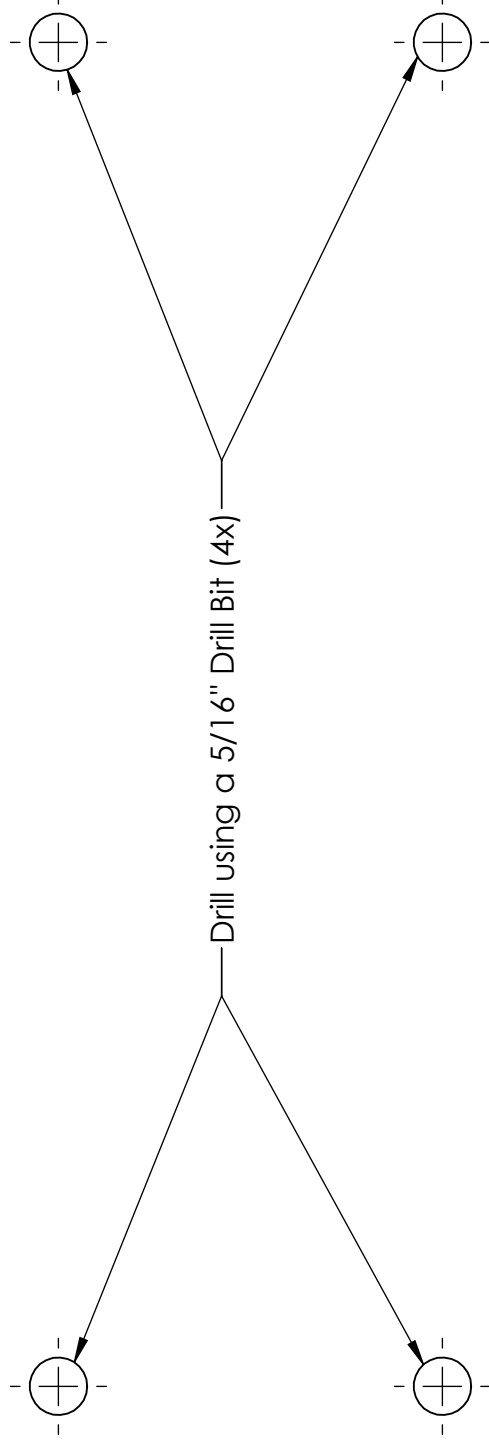
Template #1 - Heater Mounting Bracket

Verify the templates are printed to scale using a tape measure and the template below.

Cut out template, place against the floor countour under the driver's seat.

Mark center of holes and drill using 5/16" drill bit

Note: Before drilling, check the underside of the dash directly below the template for anything that may interfere with the placement of the vents.



Template #5

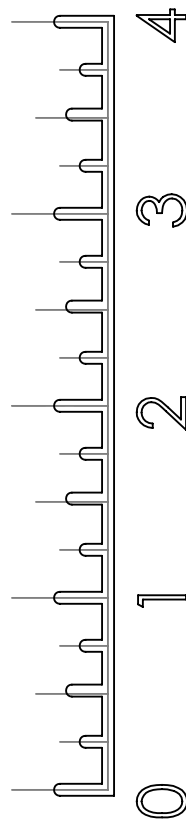
Driverside In Cab Vent

Verify the templates are printed to scale using a tape measure and the template below.

Cut out template, place against the seat side wall as shown in instructions. Mark center of hole and drill using 2" Hole Saw.

Note: Before drilling, check the underside of the dash directly below the template for anything that may interfere with the placement of the vents.

Drill using 2" Hole Saw



Template #6 - Passenger Side In Cab Vent

Verify the templates are printed to scale using a tape measure and the template below.

Cut out template, place against the seat side wall as shown in the instructions.

Mark center of hole and drill using a 2" hole saw

Note: Before drilling, check the underside of the dash directly below the template for anything that may interfere with the placement of the vents.

