motoalliance

FIRESTORM

CAB HEATERS

Polaris RZR XP 1000 Heater

HT_CU_407

INSTALLATION INSTRUCTIONS

motoalliance
22000 Industrial Blvd Ste 250
Rogers, MN 55374
866.527.7637

Polaris RZR XP 1000 Cab Heater
HT_CU_407

FIRESTORM CAB HEATERS

PARTS LIST

Part#	Qty	Item Description
1	1	FIRESTORM Gen II Core
2	1	36" Wiring Harness
		Orange/Yellow/Black Wire
		Red Wire
		Black Wire
		5-Pin Black Connector
		4-Pin White Connector
3	1	HT_CU_407-1 Mount Bracket
4	1	Hardware Pack

Part#	Qty	Item Description
	2	M6-1 Hex Nut
	2	M6-1x8 Serrated Flange Bolt
	6	#10 Hose Clamp
	4	#16 Hose Clamp
	2	Displacement Crimp
	2	Rubber Gromet
5	4	50mm Vent
6	24"	Compressed Duct Hose
7	10"	Compressed Duct Hose

Part#	Qty	Item Description
8	20'	Radiator Hose
9	1	2-1/8" Hole Saw
10	1	1-1/4" Hole Saw
11	1	Zip Ties
12	1	1" Shutoff Valve
13	1	1/2" Shutoff Valve
14	1	1" Aluminum Y
15	1	1/2" Aluminum Y
16	1	3 Position Switch

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FIRESTORM CAB HEATERS

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. Locate the bolts behind the center console lower glove box.
2. Secure the mount to those bolts using the M6 nut. FIGURE 1

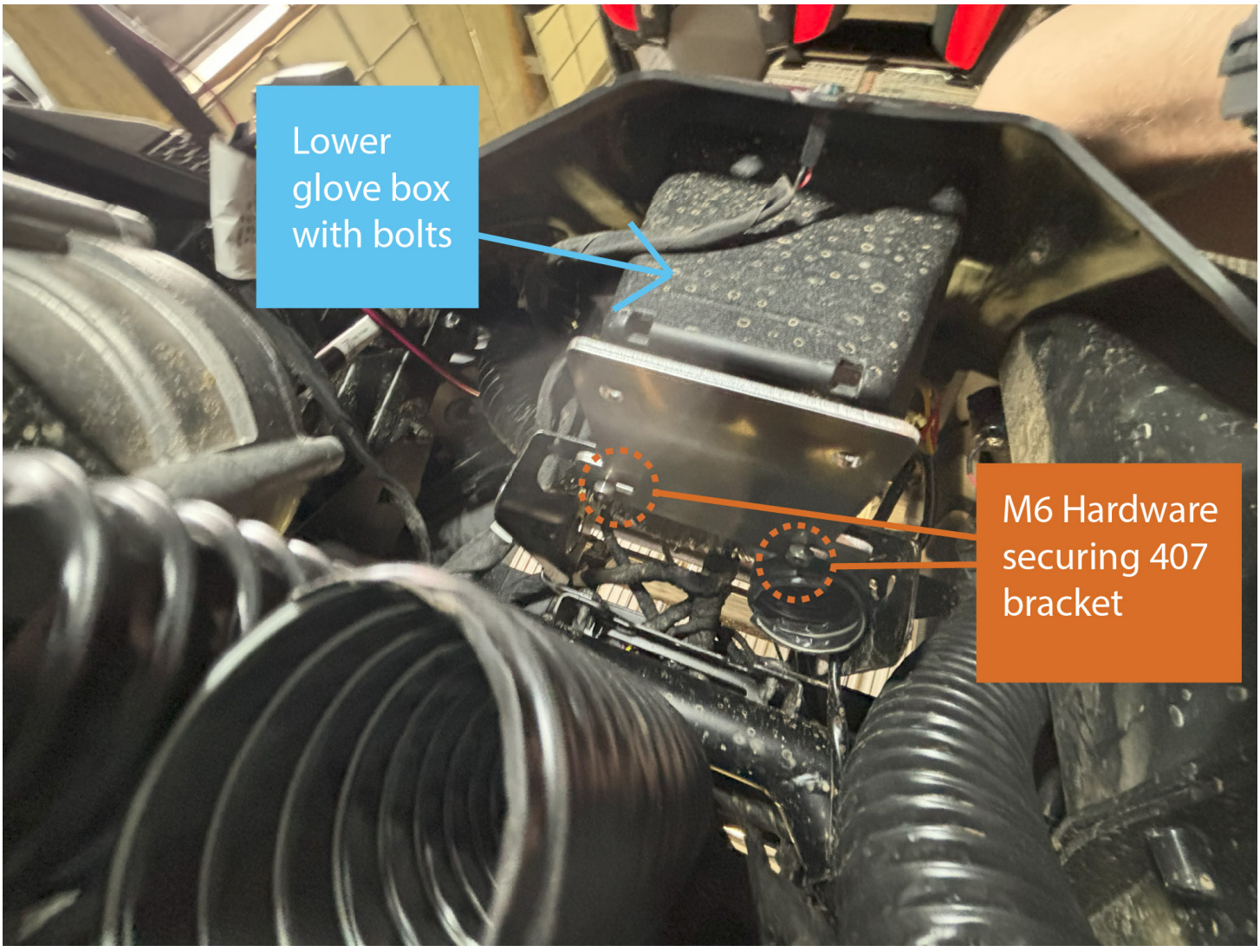


FIGURE 1

DEFROST

3. Cut two 8” sections from the 24” duct hose. FIGURE 2

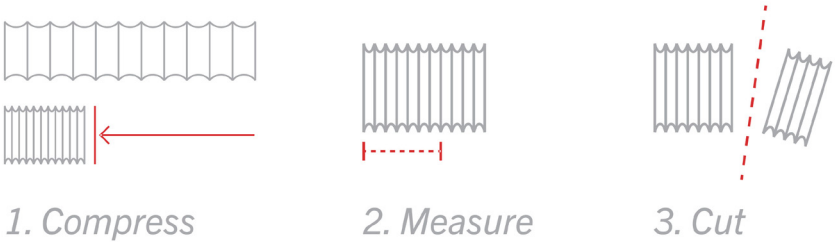


FIGURE 2

FIGURE 3

FIGURE 4

4. Use the vent templates to locate a spot on the driver side of the dash for a defrost vent and use the 2-1/8” hole saw to drill out the vent. FIGURE 3
5. Debur the hole and secure the duct hose to the vent using a zip tie.
6. Feed duct hose to the center console. FIGURE 4

7. Route the duct hose to the center console. FIGURE 5
8. Use the vent templates to locate a spot on the passenger side of the dash for a defrost vent and use the 2-1/8” hole saw to drill out the vent. FIGURE 6

FIGURE 5

FIGURE 6

9. Debur the hole and secure the duct hose to the vent using a zip tie.
10. Feed duct hose through the hole and insert the vent.
11. Route the duct hose to the center console. FIGURE 7
12. Cut a 6” section from the remaining 24” cut hose and cut a 5” section from the 10” duct hose.
13. Use the vent templates to locate a spot above the ignitition for a vent and use the 2-1/8” hole saw to drill out the vent. FIGURE 8

FIGURE 7

FIGURE 8

14. Debur the hole and secure the 5” duct hose to the vent using a zip tie.
15. Feed duct hose through the hole and insert the vent.
16. Use the vent templates to locate a spot next to the passenger glovebox for a vent and use the 2-1/8” hole saw to drill out the vent. FIGURE 9
17. Use the vent templates to locate a spot in the passenger glovebox for a vent anduse the 2-1/8” hole saw to drill out the vent. FIGURE 10

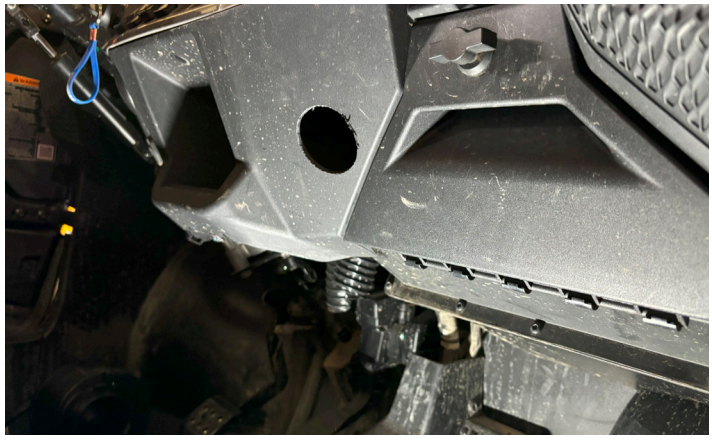


FIGURE 9

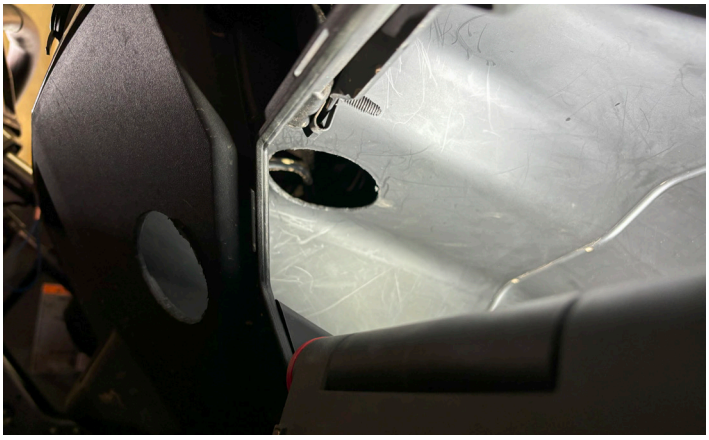


FIGURE 10

18. Debur the holes and secure the duct hose to the vent using a zip tie.
19. Feed duct hose through the holes and insert the vent. FIGURE 11

FIGURE 11

SWITCH WIRING

20. Locate the 60” Wiring Harness and ensure the wires are correctly connected to the 5-Pin Black Connector as shown in Figures 12 and the 4-Pin White Connector as shown in Figure 13.

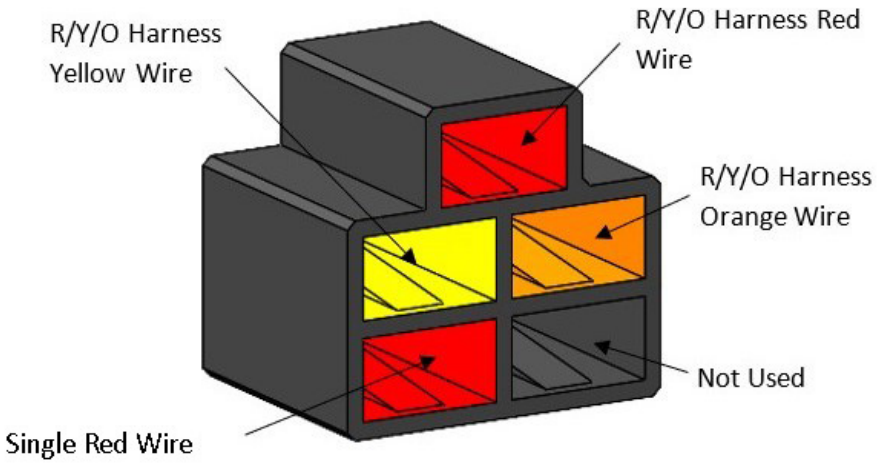
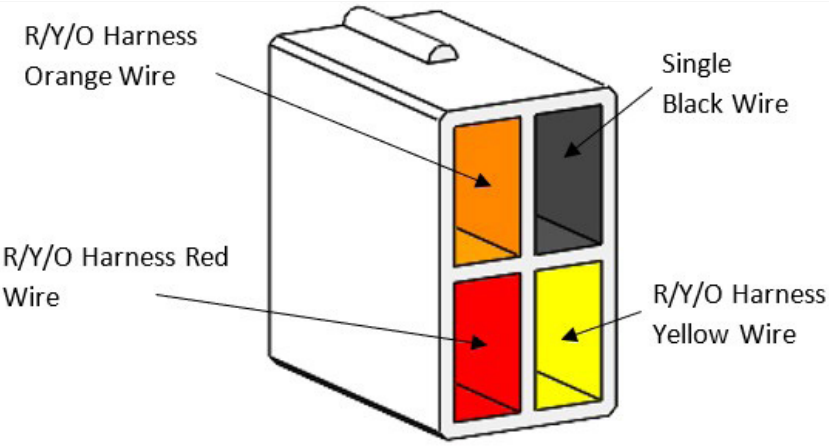


FIGURE 12



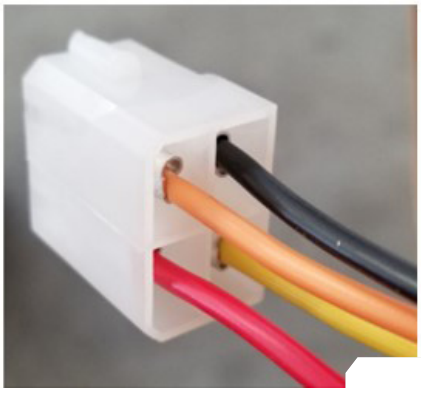


FIGURE 13

21. Connect the 5-Pin Black Connector to the 3-Position Switch included in the kit.

22. Insert the switch from the back of the dash panel, where 7/16” hole was drilled, and secure using the low-profile hex nut included in the switch bag. Disregard the flex lock washer. Reference Figure 14 for location.

23. Prior to pressing the switch bezel on, use a pair of pliers to remove the two nubs on the back of the switch bezel as shown in Figure 14.

FIGURE 14

MOUNTING

24. Route the duct hose to the center console.
25. Secure the duct hosees to the heater using zip ties.

RADIATOR HOSE

26. Secure the heater to the mount using the M6 hardware.
27. Remove the skid plate on the machine.
28. Run the radiator hose through the tunel under your machine toward the engine compartment.
29. Locate the clamp off the oil cooler line.
30. Cut the oil cooler line and insert the 1/2” aluminum Y, secure with the #10 hose clamps. FIGURE 15

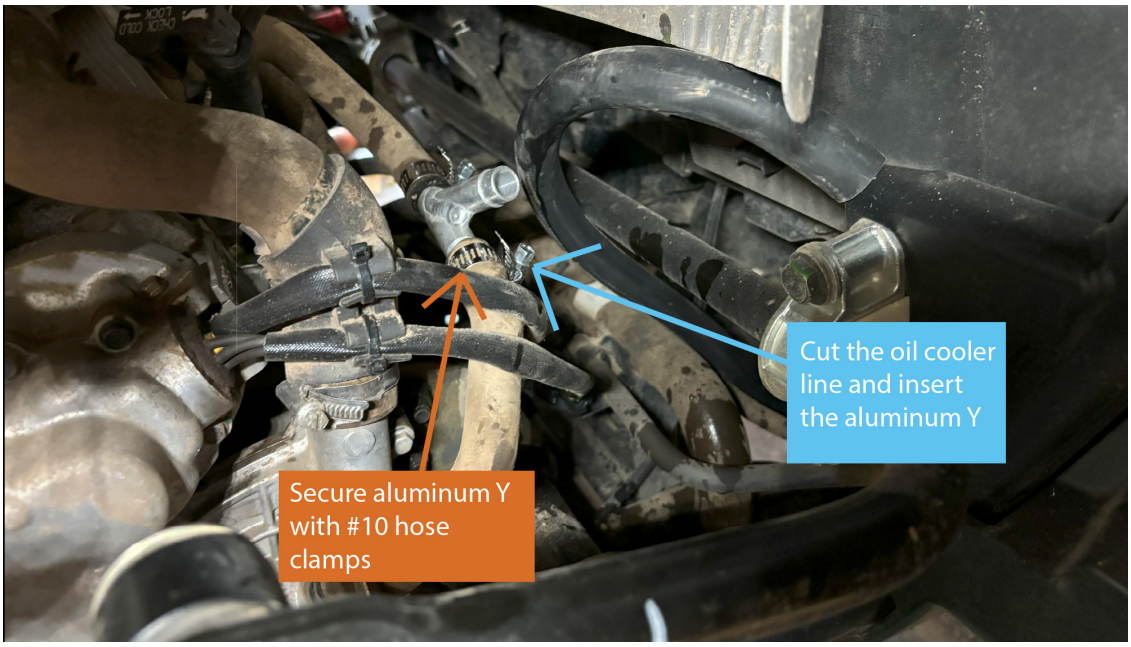


FIGURE 15

31. Secure the 20’ radiator section to the 1/2” aluminum Y using the #10 hose clamp.

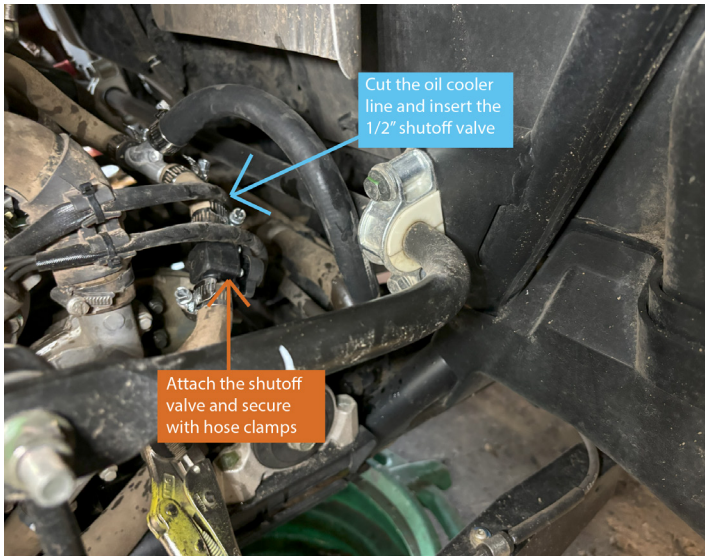


FIGURE 16

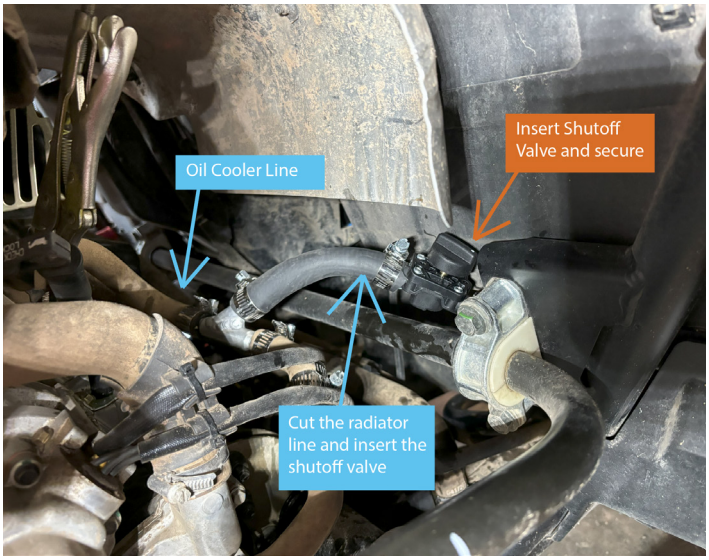


FIGURE 17

32. Locate a spot on the oil cooler line for the 1/2 shutoff valve.
33. Cut the oil cooler line and insert the 1/2” shutoff valve, secure with the #10 hose clamps. FIGURE 16
34. Locate spot on 20’ radiator section for the shutoff valve.
35. Cut the 20’ radiator line for the shutoff valve, secure with the #10 hose clamps. FIGURE 17
36. Use the 1.25 hole saw and drill two holes above upper foot rest in the passenger foot well.
37. Debur the holes and insert the gromets.
38. Feed the radiator hose through and run to the heater unit.
39. Cut excess and secure to the heater using #10 hose clamps.
40. Secure the radiator hose in the tunedl with zip ties.
41. Locate a spot on the passenger side radiator hose for the 1” Aluminum Y.
42. Cut the radiator hose and insert the 1” Aluminum Y, secure with the #16 hose clamps. FIGURE 18
43. Secure the remaining radiator hose to the 1” aluminum Y with a #10 hose clamp.

44. Run hose to the cab heater.
45. Trim the excess hose and secure it to the cab heater with a #10 hose clamp.
46. Attach the skid plate to the machine.
47. Debur the holes and insert the 50mm vents.

FIGURE 18

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.

50. Fill radiator with coolant until radiator is full.

Look at owner's manual for manufacturer-approved coolant

51. Open the shutoff valve.
52. 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.
53. Turn off the machine and wait for it to cool down.
54. Open the radiator cap and add more coolant.
55. Repeat the steps in this section until consitent heat is coming out of the vents and machine temperature guage stays under 200°F.

BEFORE YOUR NEXT RIDE

56. Verify that no leaks have occurred and that the radiator fluid level is per the manufacturers specifications.