

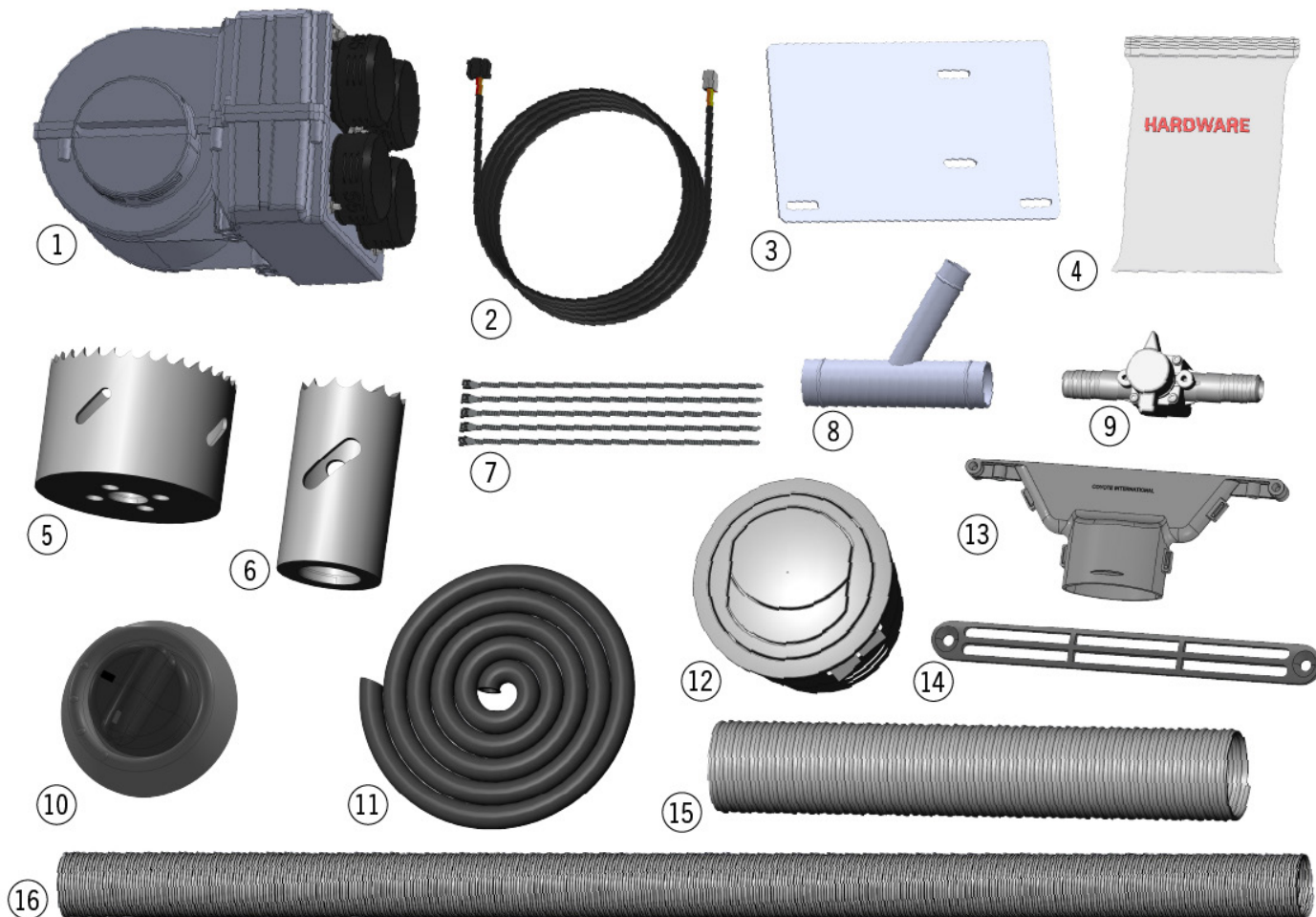


FIRESTORM
C A B H E A T E R S

UForce 1000 Cab Heater
HT_CU_474

INSTALLATION INSTRUCTIONS

PARTS LIST



Part#	Qty	Item Description
1	1	FIRESTORM Cab Heater Unit
2	1	60" Wiring Harness
		Orange/Yellow/Black Wire
		Red Wire
		Black Wire
		5-Pin Black Connector
		4-Pin White Connector
3	1	HT_CU_452-1 Heater Bracket
4	1	Hardware Pack
	2	Installation Displacement Crimps
	6	#10 Stainless Steel Hose Clamp

Part#	Qty	Item Description
	4	#16 Stainless Steel Hose Clamp
	2	M6-1x18 Hex Bolt
	2	M6 Washers
	2	1/4-20 x 1/2" Hex Bolt
	4	1/4" Washer
	2	1/4 - 20 Nylock Nut
	2	1" Rubber Grommet
	4	Self-tapping Screws
5	1	2 1/8" Hole Saw
6	1	1 1/4" Hole Saw
7	20	Zip Ties

Part#	Qty	Item Description
8	2	7/8" Aluminum Y
9	1	Plastic Shutoff Valve
10	1	3-Position Switch
11	10'	5/8" Radiator Hose
12	2	50mm Vents
13	2	Plenum Vents
14	2	Vent Grill
15	24"	Compressed 2" Duct Hose
16	10"	Compressed 2" Duct Hose



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

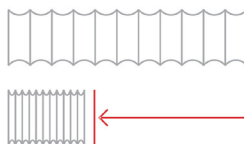
1. Remove the windshield.
2. Uninstall the lower dash by removing the screws and bolts. *FIGURE 1*



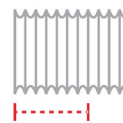
FIGURE 1

Defrost Installation

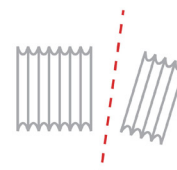
3. Cut a 12" compressed section out of the 24" section of compressed duct hose.



1. Compress



2. Measure



3. Cut



FIGURE 2

4. Cut the remaining 24" section into two 6" compressed sections.
5. Connect the 12" and 10" to the plenum vents by cutting two slits on the sides of the hose and securing it to the vent using a zip tie.
6. Locate the pre-marked defrost vents on the dash. **FIGURE 2**
7. Place vent grill onto the pre-marked area and ensure the vent will not interfere with the windshield.



FIGURE 3

8. Mark out the inside of the grill vent on the dash.
9. Cut out the marked area.



FIGURE 4

10. Run the 12" section to the driver side defrost location.

Duct Hose

11. Secure with the vent grill using the self-tapping screws. **FIGURE 3**
12. Run the 10" section to the driver side defrost location.

Heater Assembly

13. Secure with the vent grill using the self-tapping screws. *FIGURE 4*
14. Secure the two defrost hoses to the upper and lower left vents on the heater using zip ties.
15. Secure the two 6" compressed duct hose to the right vents on the heater using zip ties.
16. Place the heater bracket onto the flat section of the firewall.
17. Using a 1/4" drill bit, drill the two upper holes on the outside of the slots.

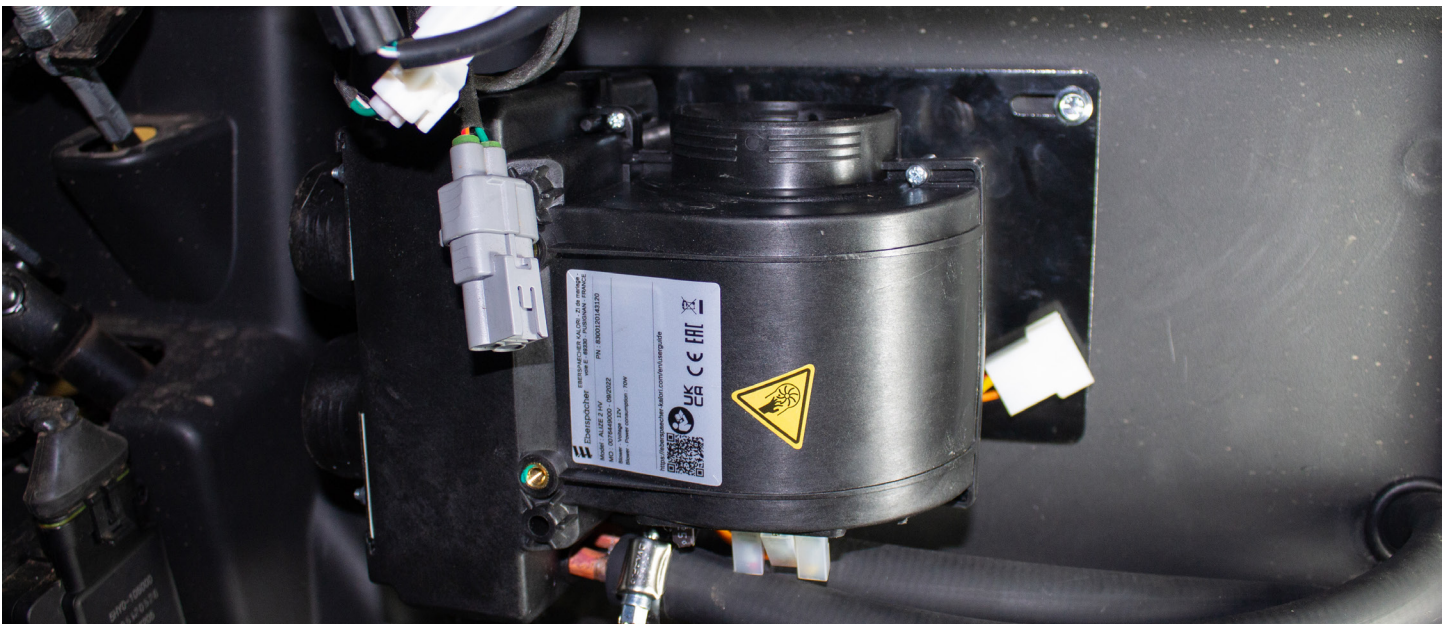


FIGURE 5

Radiator Hose

18. Secure the heater bracket to the firewall using the 1/4" hardware.



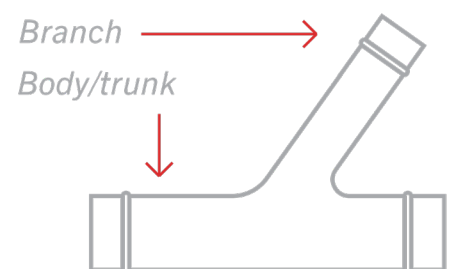
FIGURE 6

19. Using a 1/4" drill bit, drill the two lower slots.
20. Secure the heater unit to the heater bracket using the M6 hardware. *FIGURE 5*
21. Use the 1 1/4" hole saw to drill out two holes in the fire wall starting with the bottom one. *FIGURE 6*
22. Debur the two holes and insert the 1" rubber gromets in those holes.
23. Cut the 10' of radiator hose into two 5' sections.



FIGURE 7

24. Run the two sections of radiator hose through the 1" rubber gromets.
25. Connect the two, 5' sections to the heater unit using two #10 hose clamps.
26. Locate the flat part of the lower radiator hose above the winch. *FIGURE 7*
27. Use clamps to clamp the lower radiator lines before and after the flat location.
28. Cut a quarter inch section of radiator hose out and install the 7/8" aluminum Y with the branch facing toward the radiator and secure using #16 hose clamps. *FIGURE 7*
29. Route the lower 5/8" radiator hose to the branch of the aluminum Y.
30. Trim any excess radiator hose, ensuring there are no kinks in the line, and secure to aluminum Y using a #10 hose clamp. *FIGURE 7*
31. Locate the upward part of the upper radiator hose and clamp the



HEATER INSTALLATION

top and bottom of it. *FIGURE 8*

32. Cut a quarter inch section of radiator hose out and install the 7/8" aluminum Y with the branch facing toward the radiator and secure using #16 hose clamps. *FIGURE 7*
33. Route the lower 5/8" radiator hose to the branch of the aluminum Y.
34. Trim any excess radiator hose, ensuring there are no kinks in the line, and secure to the aluminum Y using a #10 hose clamp. *FIGURE 7*

SWITCH WIRING

35. Locate a spot on the 5/8" radiator hose, that connects the heater to the upper radiator hose, to install the shutoff valve.
36. Cut the 5/8" radiator hose and secure shutoff valve with #10 hose clamps.
37. Locate the 60" Wiring Harness and ensure the wires are correctly connected to the 5-Pin Black Connector as shown in Figures 8 and the 4-Pin White Connector as shown in Figure 9.

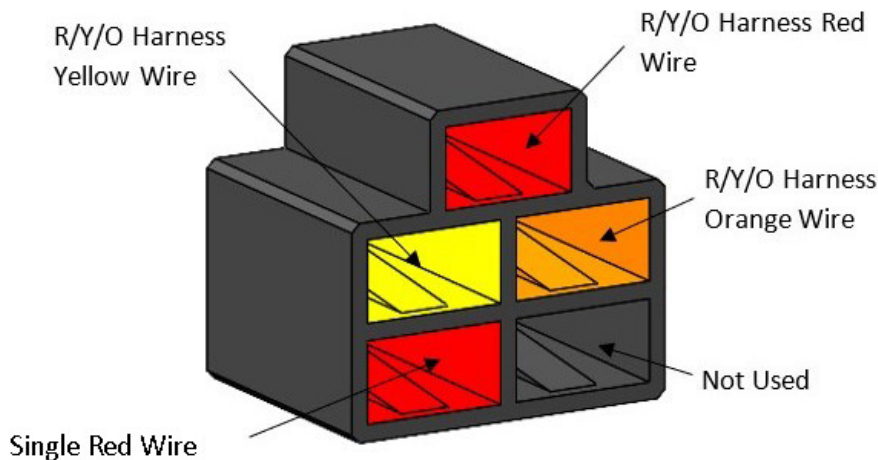


FIGURE 8

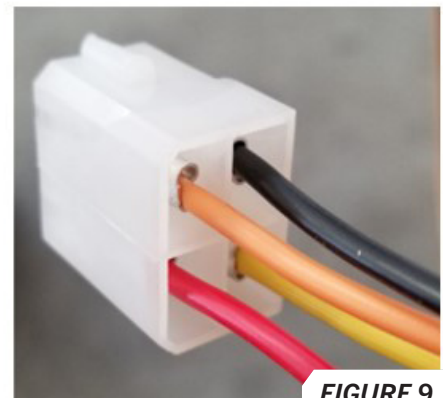
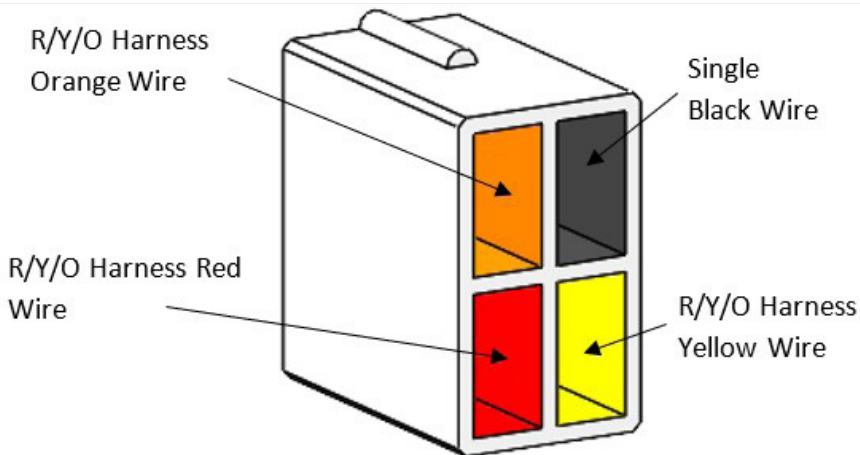


FIGURE 9

38. Connect the 5-Pin Black Connector to the 3-Position Switch included in the kit.
39. 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 10 for location.
40. 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 10.



FIGURE 10

41. Place the bezel over the switch so that the 0,1,2,3 markings are visible.
42. Press the switch dial until it is seated firmly.
43. Connect the 4-Pin White Connector to the white terminal housing on the heater unit.
44. Cut the ring terminal off the red wire and use an installation crimp to crimp the red wire to the green wire on either of the accessory outlets. **FIGURE 13**



FIGURE 12

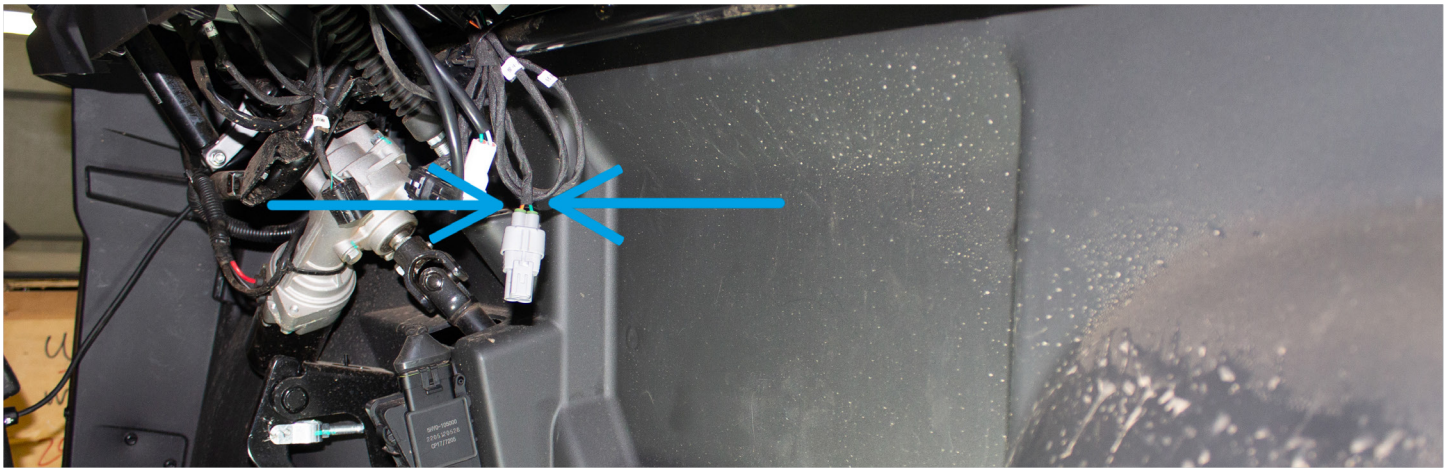


FIGURE 13

45. Connect the terminated end of the black wire to any vehicle ground.
46. Test the switch to ensure that it can control the fans speed in all three positions.

Foot Vents

47. Reinstall the lower dash and remove the middle glove compartment on the lower dash.
48. Mark two spots on the lower dash and using the 2-1/8" hole saw drill out the two locations. **FIGURE 14**

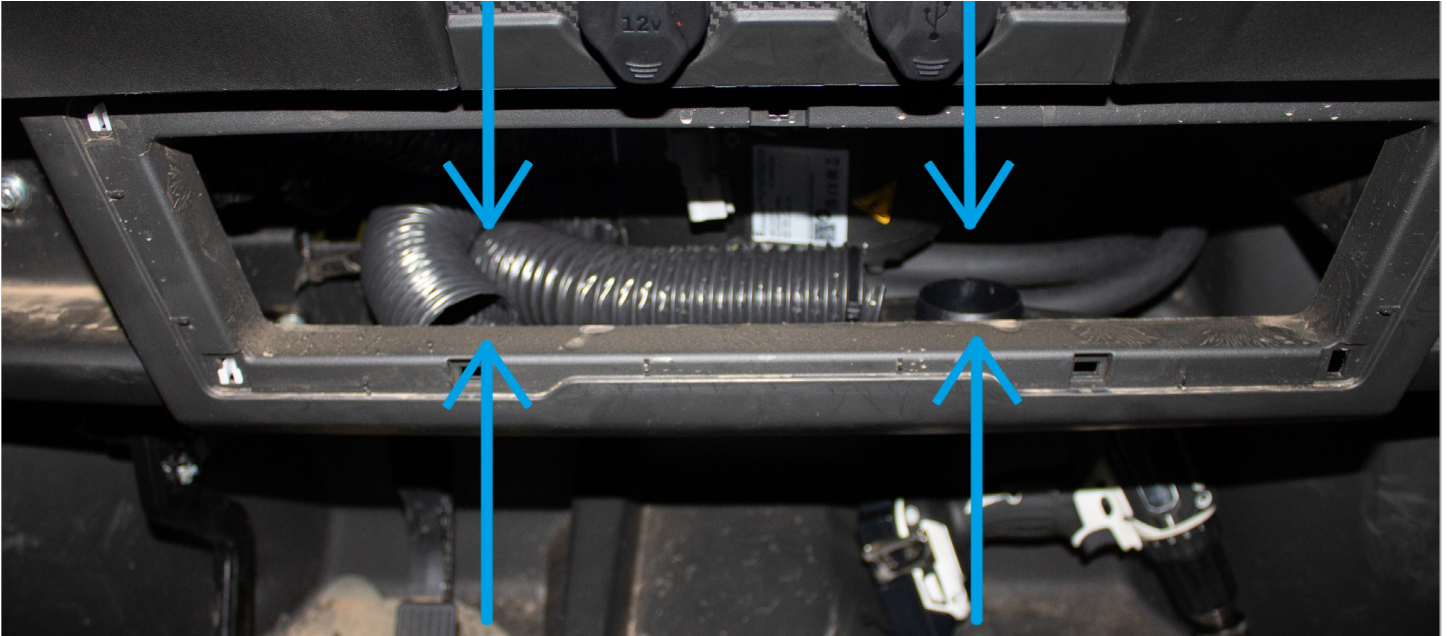


FIGURE 14

49. Debur the holes and insert the 50mm vents.
50. Secure the two remaining duct hoses to the vents using the zip ties.
51. Reinstall the middle glove compartment and windshield.

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.

55. Turn off the machine and wait for it to cool down.
56. Open the radiator cap and add more coolant.
57. Repeat the steps in this section until consistent heat is coming out of the vents and machine temperature guage stays under 200°F.
58. Verify that no leaks have occurred, and that the radiator fluid level is per the manufacturer's specifications.

Look at owner's manual for manufacturer-approved coolant

REPLACEMENT PARTS



Replacement parts can be ordered from motoalliance.com. Enter the associated SKU number into the search bar to find the product.

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Scan this QR code to see the full list of FIRESTORM replacement parts on motoalliance.com



Scan this QR code to get more tech help, watch troubleshooting videos, or submit a help form on motoalliance.com

