



FIRESTORM
C A B H E A T E R S

Universal Cab Heater Kit

HT_CU_Universal

INSTALLATION INSTRUCTIONS

PARTS LIST



Part#	Qty	Item Description
1	1	FIRESTORM Gen II Cab Heater
2	1	HT_CU_452-1 Heater Mount
3	2	HT_CU_448-2 Heater Mount
4	4	50mm Vent
5	20'	5/8" Radiator Hose
6	35"	2" Duct Hose
7	1	Hardware Pack
	2	M6-1x18 Hex Bolt
	2	M6 Washer

Part#	Qty	Item Description
2	2	M6 Lock Washer
	2	1/4-20 x 1/2" Hex Bolt
	2	1/4" Washer
	2	1/4" Lock Washer
	2	Displacement Crimp
	4	Self-tapping Screw
	2	1" Rubber Gromet
	6	#10 Hose Clamp
	4	#16 Hose Clamp

Part#	Qty	Item Description
	1	Zip Ties (Pack of 20)
8	1	96" Wiring Harness
9	1	3-Position Switch
10	1	2 1/8" Hole Saw
11	1	1 1/4" Hole Saw
12	2	1" Aluminum Y
13	2	7/8" Aluminum Y
14	1	Shut Off Valve



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.

PREPARATION

1. Locate a flat spot on either the dash or firewall of the machine to mount the heater using the HT_CU_452-1 mount. FIGURE 1



FIGURE 1

2. Locate the main radiator lines of the machine and confirm that radiator hose can be routed to the heater. NOTE: The 1.25" hole saw can be used to drill through the firewall or dash to route the radiator hose to the heater.



FIGURE 2

3. Use the vent templates to locate 4 spots for the vents and make sure you can route the duct hosing to those locations without any interference. NOTE: The HT_CU_448-2 mount to make a location for the vents. FIGURE 2

MOUNTING

4. Drill into the dash and secure the mount to the machine using the 1/4" hardware.
5. Drill into the dash and secure the heater to the mount using the M6 hardware.

DUCTING

6. Use the vent templates to locate spots for the vents and use the 2-18" hole saw to drill out the vents.
7. Debur the hole and insert the vents.
8. Secure the duct hose to the vents using zip ties.
9. Run duct hose to the heater and secure using zip ties.

RADIATOR HOSE

10. Determine the inlet and outlet radiator lines on the machine. FIGURE 3 shows Y orientation
11. On the inlet radiator line locate a spot to insert the aluminum Y.
12. Cut the radiator hose and insert the aluminum Y, with the Y branch facing the radiator, secure using #16 hose clamps.
13. Secure the 20' radiator hose to the aluminum Y using a #10 hose clamp.
14. Run the radiator hose to the heater core. NOTE: Use the 1.25" hole saw to drill into the cab to route radiator hose to the heater core. Insert the rubber grommet into the hole.
15. Trim excess radiator hose and connect it to the heater core using a #10 hose clamp.
16. On the radiator hose locate a spot for the shutoff valve.
17. Cut the hose and secure the shutoff valve using #10 hose clamps.
18. On the outlet radiator line of the radiator locate a spot to insert the aluminum Y.
19. Cut the radiator hose and insert the aluminum Y, with the Y branch facing toward the radiator, secure using #16 hose clamps.
20. Secure the remaining 20' of radiator hose to the aluminum Y using a #10 hose clamp.
21. Run the radiator hose to the heater core. NOTE: Use the 1.25" hole saw to drill into the cab to route radiator hose to the heater core. Insert the rubber grommet into the hole.

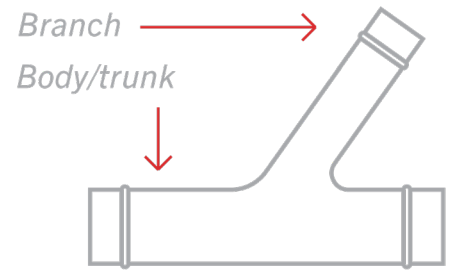


FIGURE 3

ELECTRICAL

22. Trim excess radiator hose and connect it to the heater core using a #10 hose clamp.

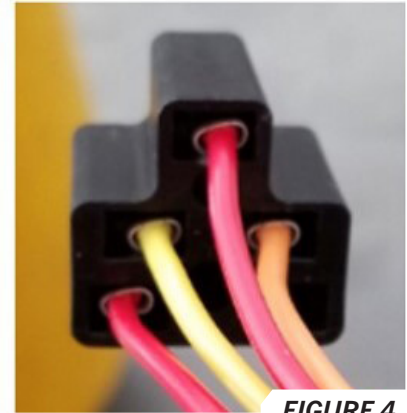
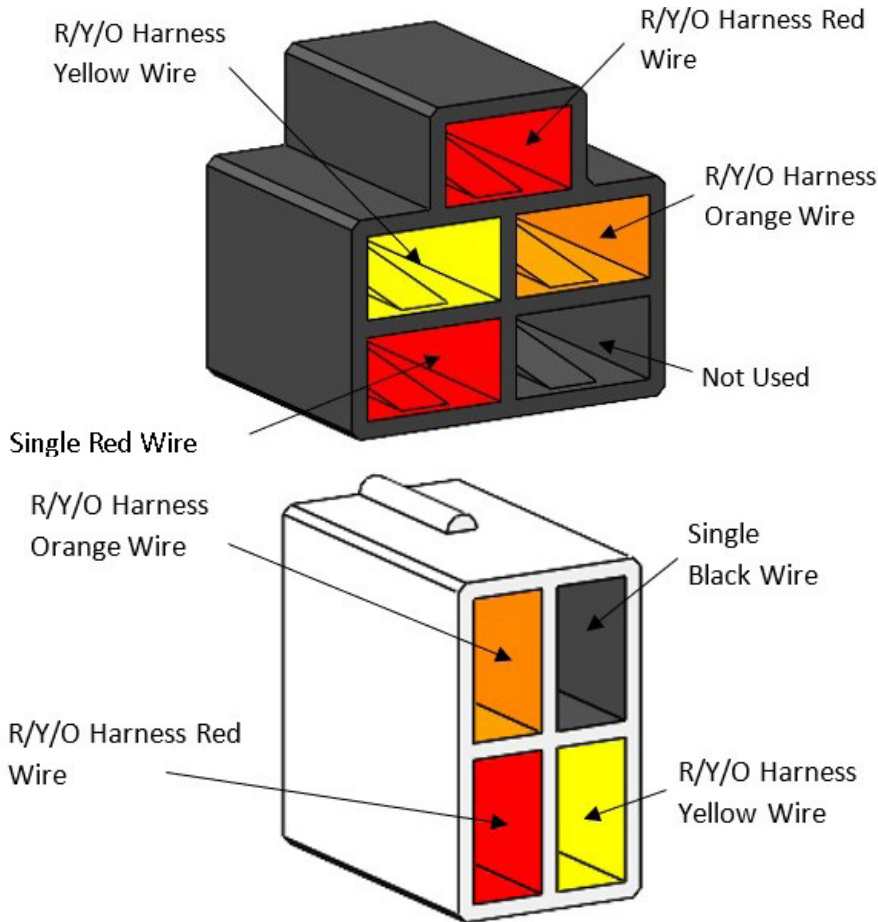


FIGURE 4

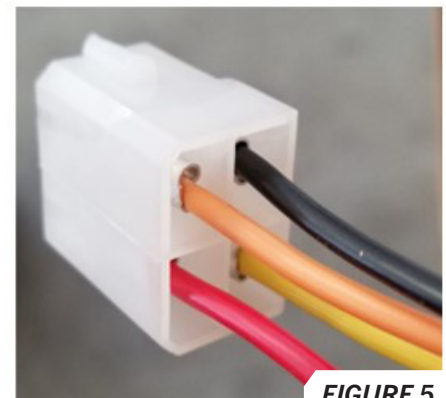


FIGURE 5

23. Locate the 96" Wiring Harness and ensure the wires are correctly connected to the 5-Pin Black Connector as shown in Figure 4 and 4-Pin White Connector.
24. Insert dash switch into dash and connect the black connector on wiring harness to dash switch.
25. Connect the white connector on the wiring harness to the heater.



FIGURE 6

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.

26. Connect the red wire to a keyed power source.
27. Connect the black wire to ground. NOTE: If you can't use the ring terminal use the displacement crimp to splice into ground.
28. Fill radiator with coolant until radiator is full.
29. Open the shutoff valve.
30. Close the radiator cap and drive the machine around until heat comes through the vents or the machine's engine temperature goes above 200F.
31. Turn off the machine and wait for it to cool down.
32. Open the radiator cap and add more coolant.
33. Verify that no leaks have occurred and that the radiator fluid level is per the manufacturer's specifications.
34. Repeat the steps in this section until consistent heat is coming out of the vents and machine temperature gauge stays under 200F.

Look at owner's manual for manufacturer-approved coolant



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