



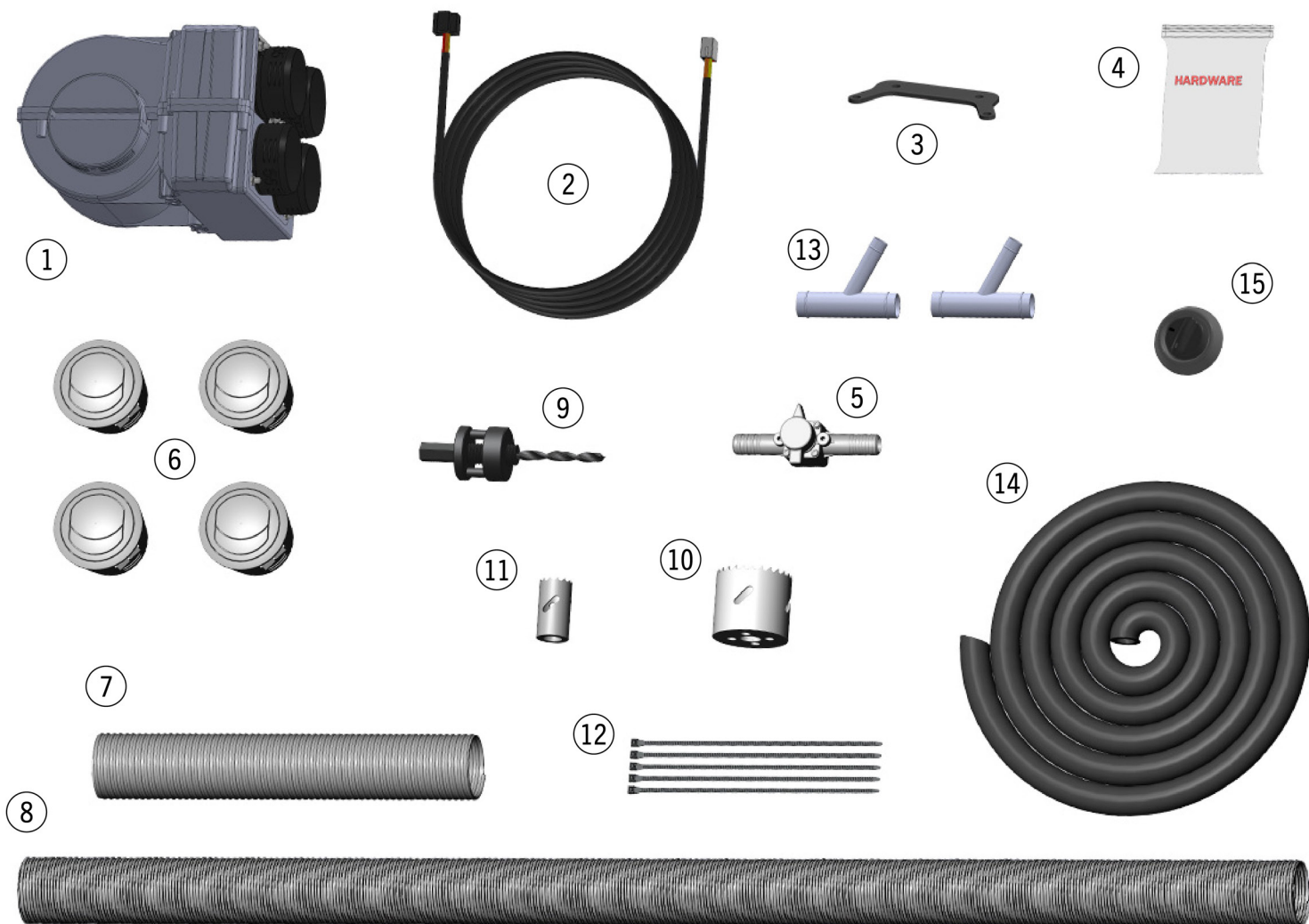
FIRESTORM
C A B H E A T E R S

CFMoto ZForce 950 Cab Heater

HT_CU_469

INSTALLATION INSTRUCTIONS

PARTS LIST



Part#	Qty	Item Description
1	1	FIRESTORM Cab Heater Unit
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_469-1 Heater Bracket
4	1	Hardware Pack
	2	M6-1x18 Hex Bolts

Part#	Qty	Item Description
	2	M6 Washers
	6	Self-tapping Screws
	2	Insulation Displacement Crimp
	6	#10 Stainless Steel Hose Clamps
	4	#16 Stainless Steel Hose Clamps
5	1	Plastic Shut-Off Valve
6	4	50mm Vent
7	10"	2" Compressed Duct Hose
8	24"	2" Compressed Duct Hose
9	1	Hole Saw Pilot Bit

Part#	Qty	Item Description
10	1	2½" Hole Saw
11	1	1¼" Hole Saw
12	10	Zip Ties
13	2	¾" Aluminum Y
14	10'	⅝" Coolant Hose
15	1	3-Position Switch



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 upper dash. **FIGURE 1**

There are Phillips head screws located on the cab side of the dash. Remove plastic rivets on the side of the upper dash to get access to the screws.



FIGURE 1

3. Remove the bolts on the contactor.

HEATER

4. Insert the heater unit into the center cavity with the inlet and outlet facing the passenger side.
5. Referencing the inlet and outlet positions, mark locations for the radiator hose to go through the firewall. **FIGURE 2**



FIGURE 2

6. Remove the heater unit and radiator hose. Using the 1¼" hole saw, drill two holes in the firewall for the radiator hose.
7. Deburr the holes and insert the rubber grommets.
8. Connect the HT_CU_469-1 heater bracket to the heater unit using the M6 bolts and washers.

Put three M6 washers on each bolt.

RADIATOR HOSE

9. Cut the 10' radiator hose into two 5' sections.
10. Connect the sections to the heater unit inlet/outlet ports. Secure with #10 hose clamps.
11. Place the heater unit back into the center cavity and run the radiator hose through the rubber grommets.
12. Run one 5' radiator hose section to the upper factory radiator hose.
13. Run the second 5' radiator hose section to the lower factory radiator hose.

14. Locate a flat, level section on the upper factory radiator hose for the $\frac{7}{8}$ " aluminum Y. Cut the hose and insert the Y with the branch facing the front of the machine. Secure using #16 hose clamps. **FIGURE 3**

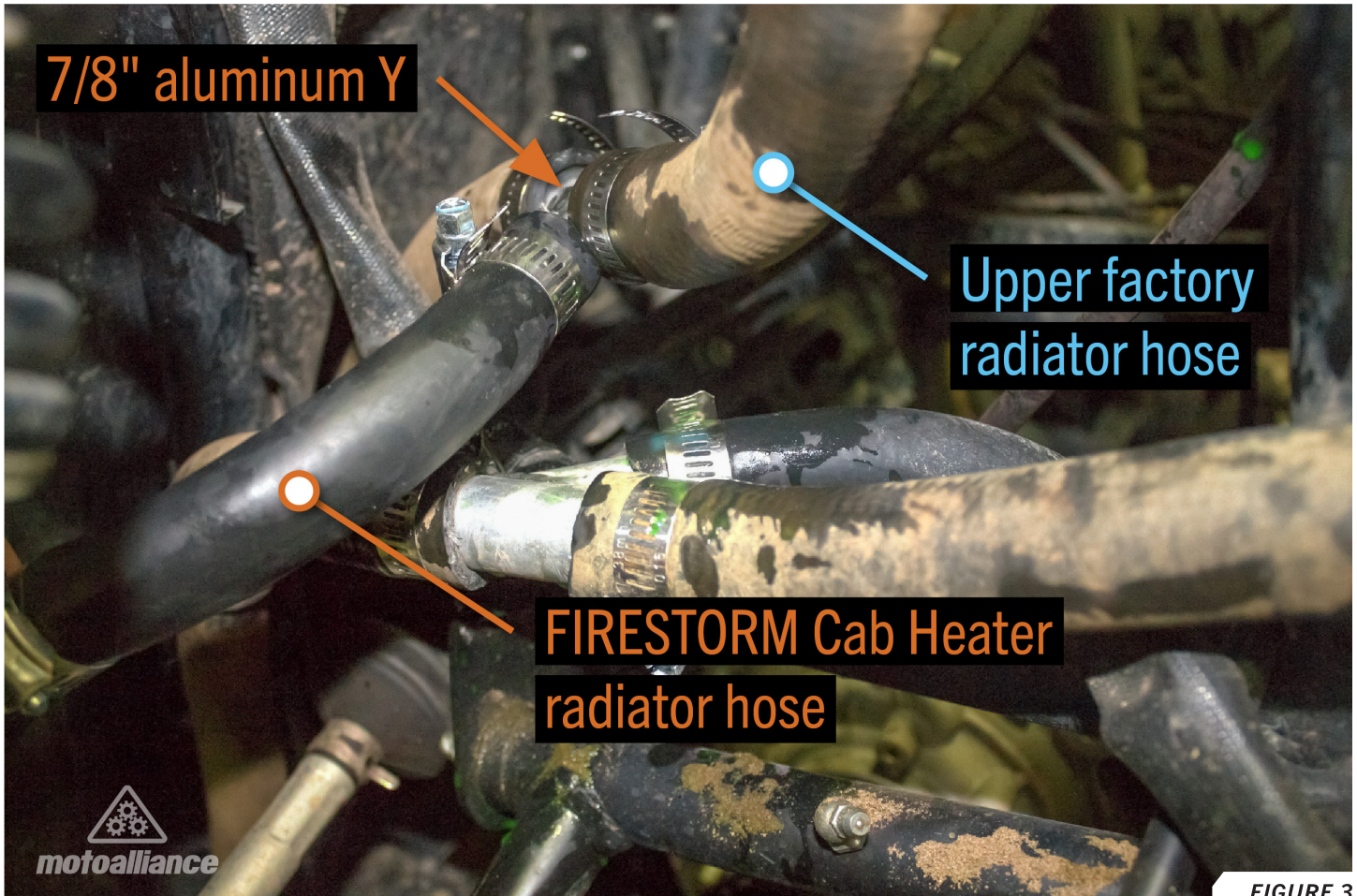


FIGURE 3

15. Run one of the 5' radiator hose sections to the branch of the aluminum Y, cut any excess hose, and secure using a #10 hose clamp. **FIGURE 3**

16. Locate a flat, level section on the lower factory radiator hose for the $\frac{7}{8}$ " aluminum Y. Cut the hose and insert the Y with the branch facing the rear of the machine. Secure using #16 hose clamps. **FIGURE 4**

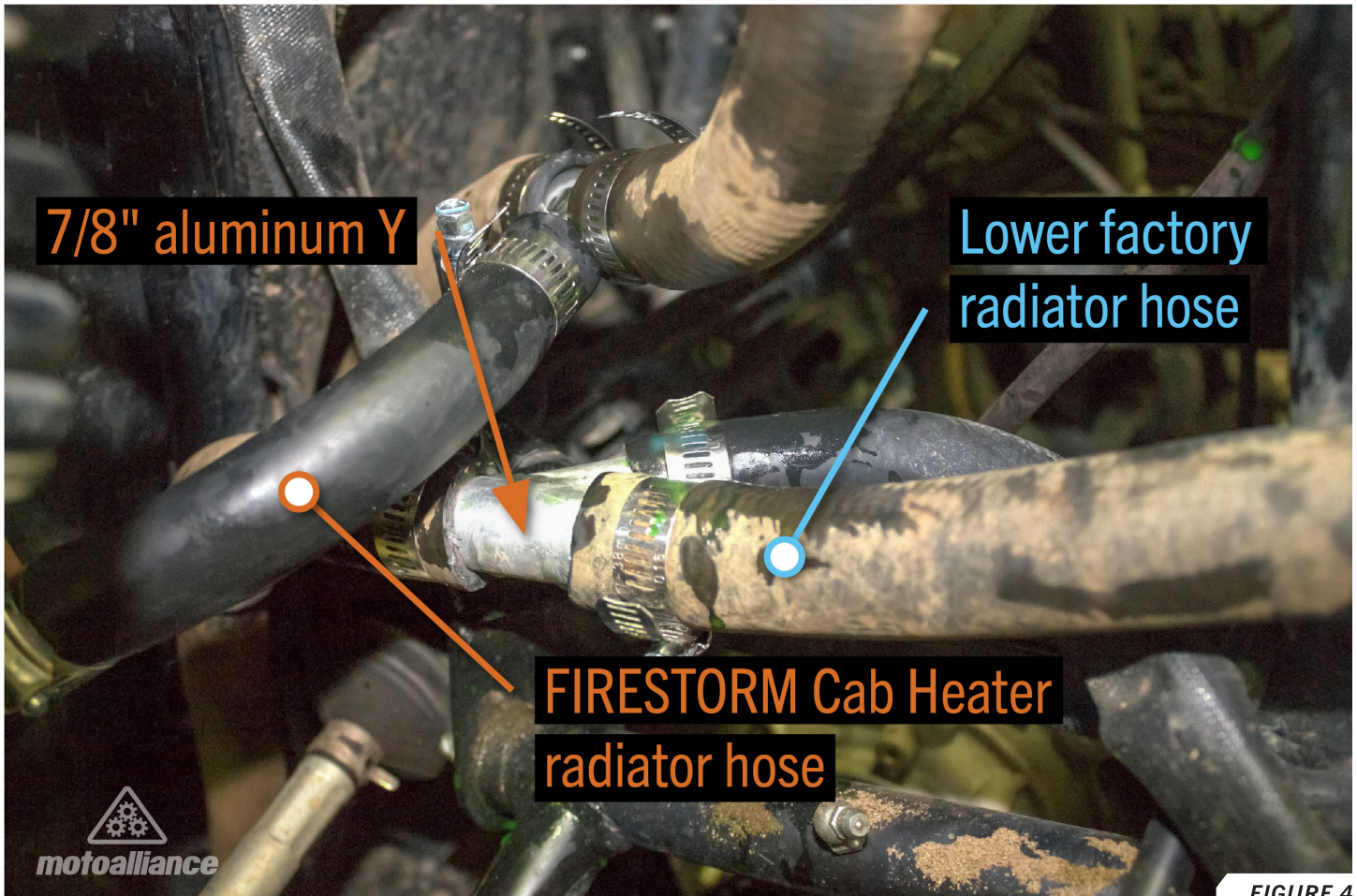


FIGURE 4

17. Run the second 5' radiator hose section to the branch of the aluminum Y, cut any excess hose, then secure using a #10 hose clamp. **FIGURE 4**
18. Locate an accessible area on the hose running from the heater to the upper factory radiator hose.

19. Cut the hose and insert the plastic shutoff valve. Secure using two #10 hose clamps. **FIGURE 5**



FIGURE 5

SWITCH WIRING

20. Locate the 36" wiring harness and ensure the wires are correctly connected to the 5-pin black connector as shown in **FIGURE 6** and the 4-pin white connector as shown in **FIGURE 7**.

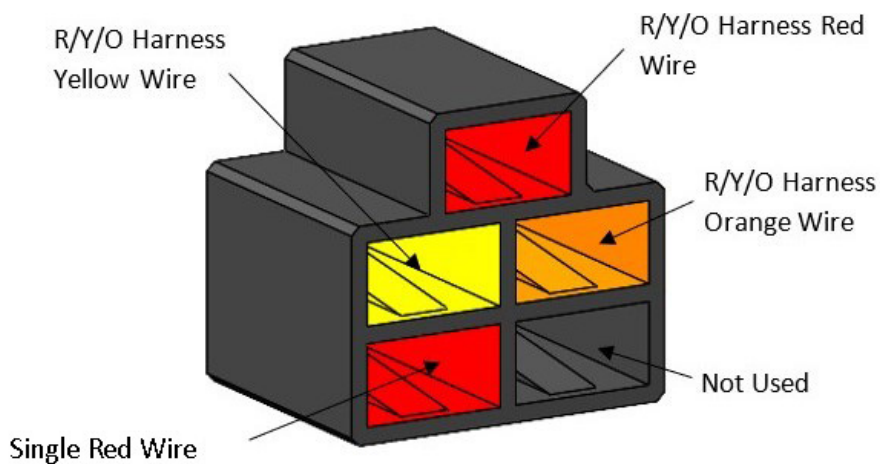


FIGURE 6

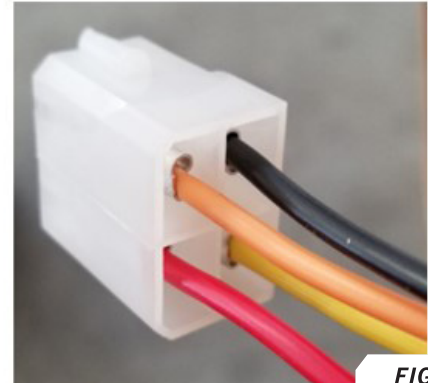
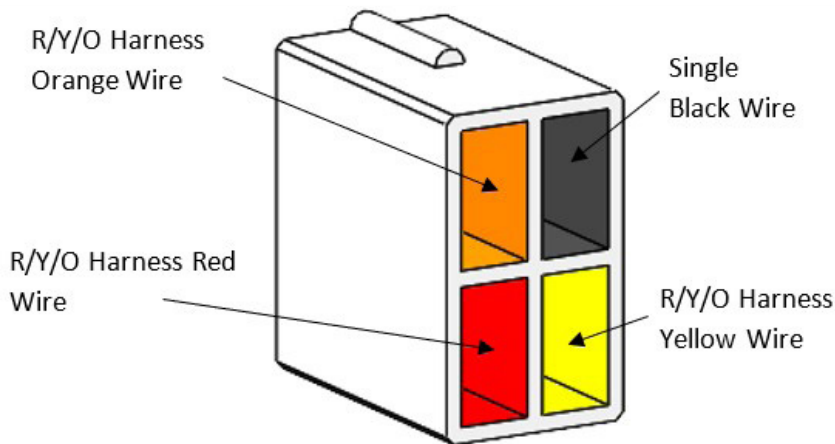


FIGURE 7

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 center console panel through the $\frac{7}{16}$ " hole drilled earlier, then secure using the low-profile hex nut included in the switch bag. Disregard the flex lock washer.
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 8**.
24. Place the bezel over the switch so that the 0, 1, 2, 3 markings are visible.
25. Press the switch dial onto the switch until it is seated firmly.
26. Connect the white 4-pin connector to the white terminal housing on the heater unit.
27. Connect the red wire to a keyed powered source (any power source that is only powered when the vehicle is on) using the terminated end. If you have no connection spot for the terminated end, cut the ring terminal off and use the insulation displacement crimps to connect the red wire to a keyed power source. This can be found by testing wires with a multimeter.



FIGURE 8

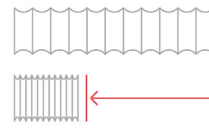
28. Connect the black wire to the negative battery terminal.
29. Test the switch to ensure that it can control the fan speed in all three positions.

Common examples may include the ignition, radios, and winches, though this may vary with your vehicle.

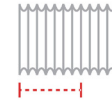
DUCT HOSE

30. Cut the following lengths of COMPRESSED duct hose:

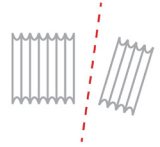
- 8" (qty 2) from the 24" compressed hose
- 5" (qty 2) from 10" compressed hose



1. Compress



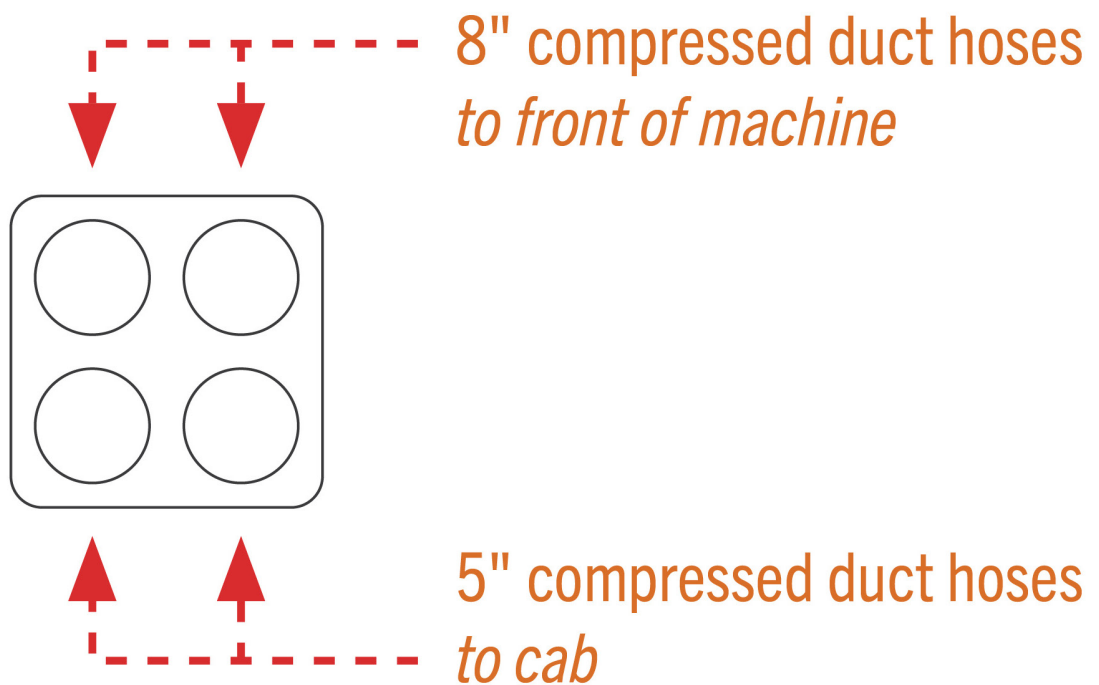
2. Measure



3. Cut

31. Connect the 8" compressed duct hoses to the top vent ports on the heater, toward the front of the machine, and secure using zip ties.

32. Connect the 5" compressed duct hoses to the bottom vent ports on the heater, toward the cab, and secure using zip ties. **FIGURE 9**



VENT INSTALLATION

33. Mark locations on the center console for the driver and passenger side lower vents and drill out holes using the 2½" hole saw. **FIGURE 10**

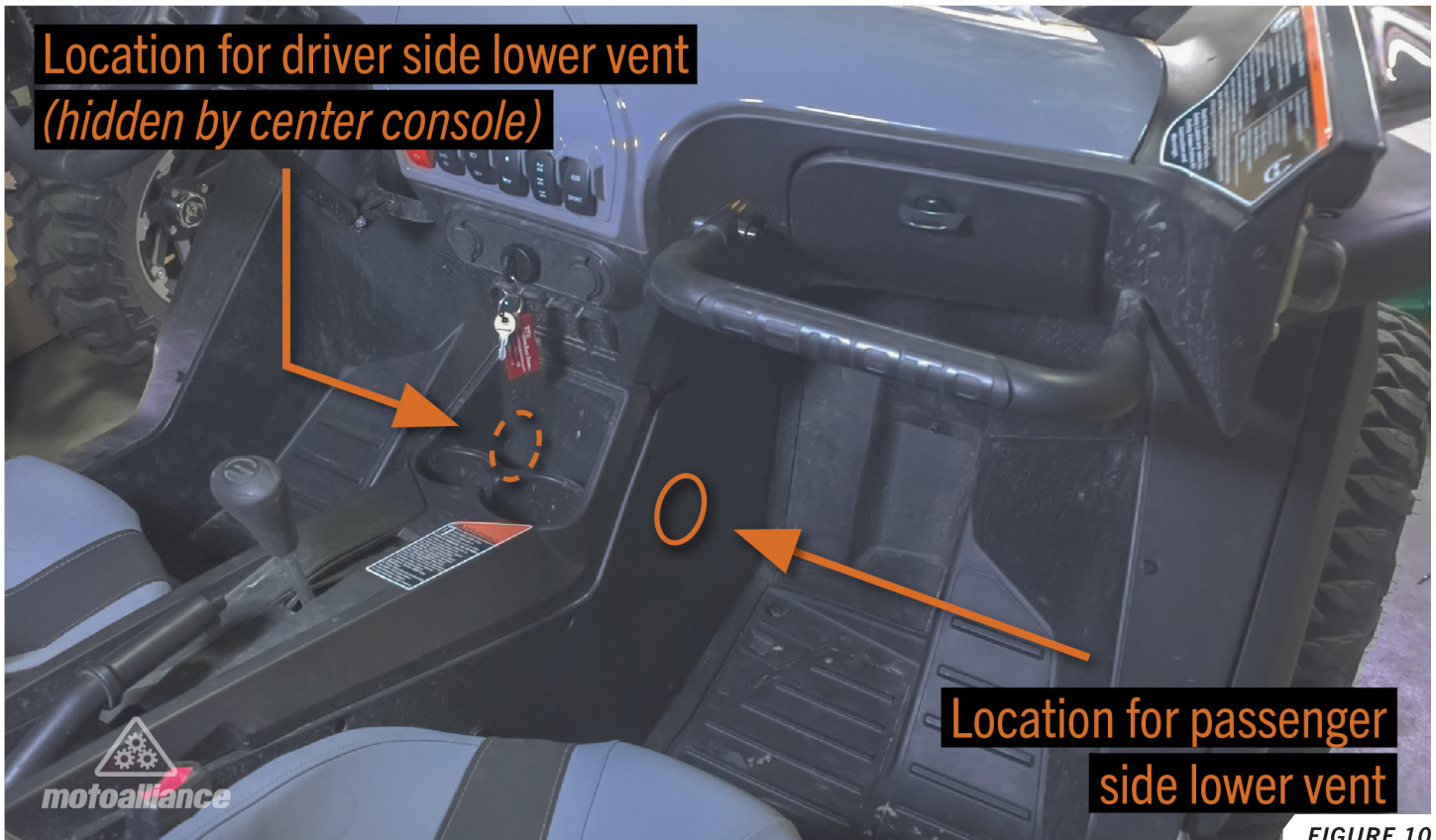
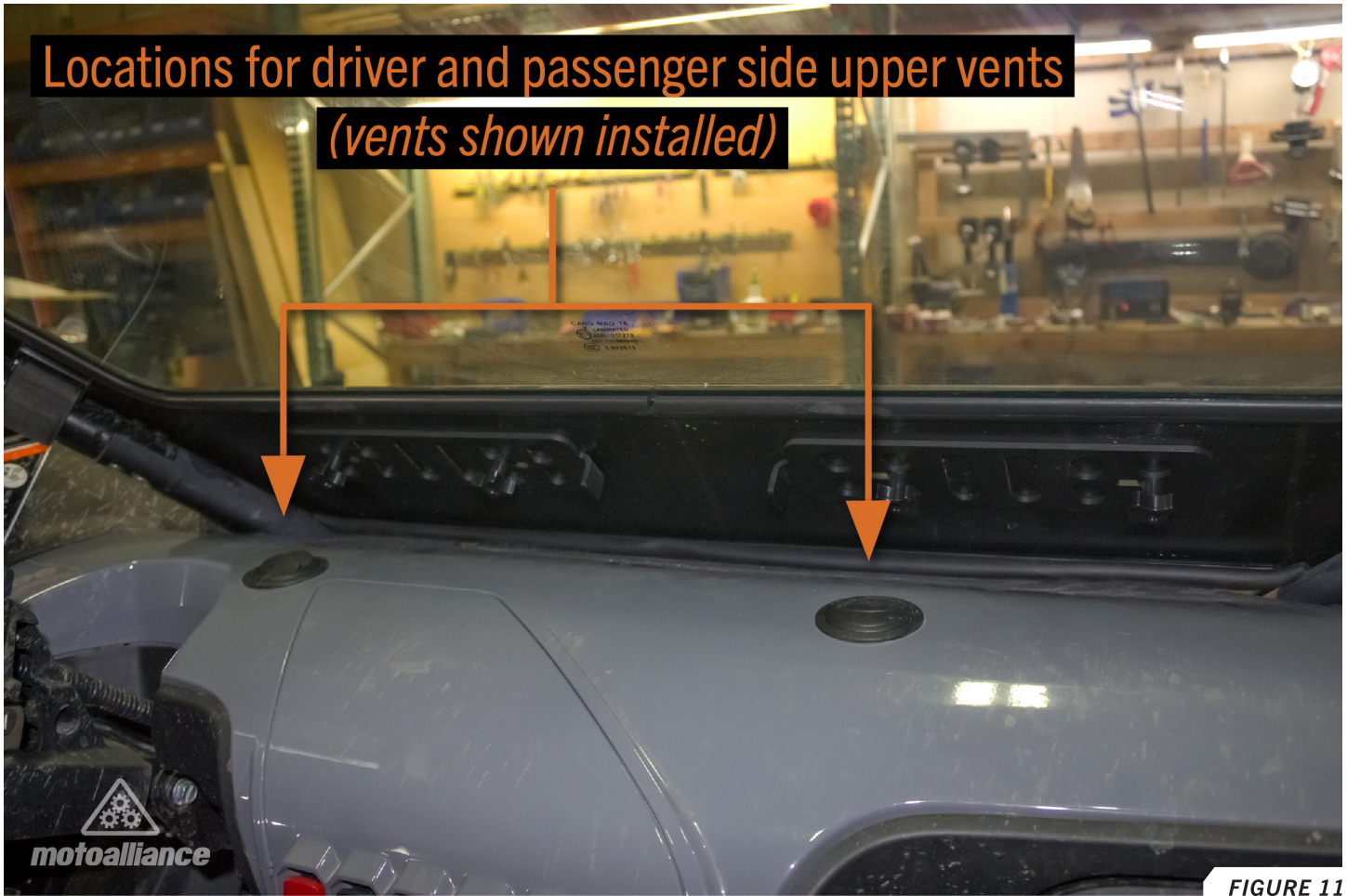


FIGURE 10

34. Debur the holes and insert the 50mm vents.
35. Connect the 5" compressed duct hose sections from the bottom vent ports on the heater to the 50mm vents and secure using zip ties.

36. Mark locations on the upper dash for the driver and passenger side upper vents and drill out holes using the 2½" hole saw. **FIGURE 11**



37. Deburr the holes and insert the 50mm vents.
38. Connect the 8" compressed duct hose sections from the top vent ports on the heater to the 50mm vents and secure using zip ties.

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.

39. Fill radiator with coolant until radiator is full.
40. Open the shutoff valve.

Look at owner's manual for manufacturer-approved coolant

41. 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.
42. Turn off the machine and wait for it to cool down.
43. Open the radiator cap and add more coolant.
44. Repeat the steps in this section until consistent heat is coming out of the vents and machine temperature gauge stays under 200°F.
45. Verify that no leaks have occurred and that the radiator fluid level is per the manufacturer's specifications.

FINISHING

46. Use the two self-tapping screws to secure the HT_CU_469-1 heater bracket to the center console.
47. Reinstall the contactor, upper dash, and front hood.

REPLACEMENT PARTS



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

Item Description	SKU
2" Compressed Duct Hose	HT_2inch_Compressed
50mm Vent	HT_50mm_Louver
FIRESTORM Heater Motor	RPL_HT_CU_Fan_and_Motor
3-Position Switch	HT-FanSwitch
5/8" Coolant Hose	HT_RadiatorHose_10

Item Description	SKU
7/8" Aluminum Y	HT_AluminumY_7/8
Shut-Off Valve	HT_Plastic_Shut-off_Valve
Hole Saw Pilot Bit	HT_PilotBit
2 1/8" Hole Saw	HT_2.125_SAW
1 1/4" Hole Saw	HT_1.25_SAW

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

