



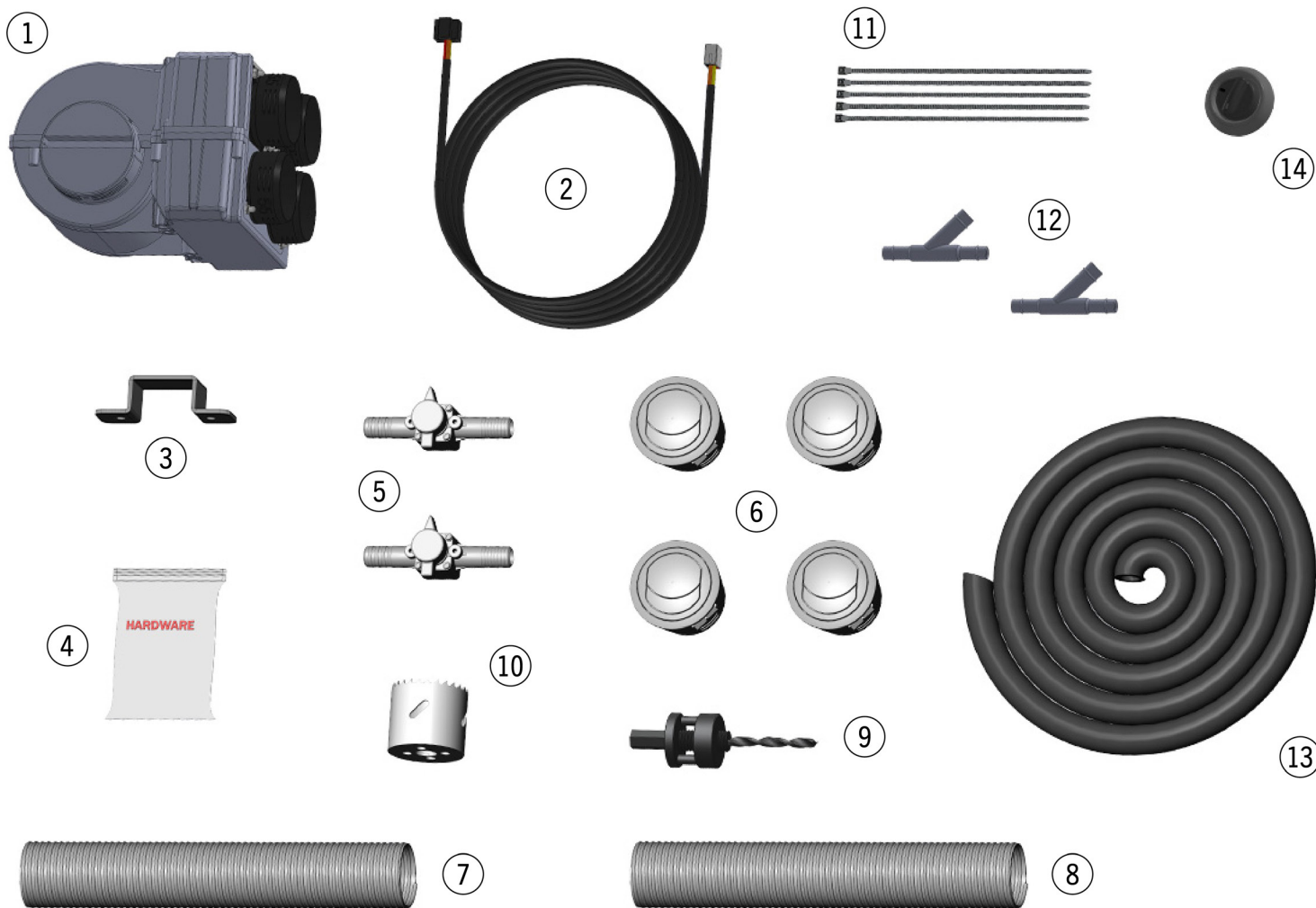
FIRESTORM
C A B H E A T E R S

Honda Pioneer 700 Cab Heater

HT_CU_419

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

Part#	Qty	Item Description
3	1	HT_CU_419-1 Heater Bracket
4	1	Hardware Pack
	2	Installation Displacement Crimps
	2	M6-1.0x12mm Hex Head Screws
	12	#10 Stainless Steel Hose Clamps
5	2	Shut-Off Valves
6	4	50mm Vents

Part#	Qty	Item Description
7	15"	2" Compressed Duct Hose
8	15"	2" Compressed Duct Hose
9	1	Hole Saw Pilot Bit
10	1	2 1/8" Hole Saw
11	20	Zip Ties
12	2	1/2" Aluminum Y
13	20'	5/8" Radiator Hose
14	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 and set it aside.
2. Remove the seat.
3. Remove the bolts and plastic rivets securing the driver side plastic seat cover and set it aside. **FIGURE 1**

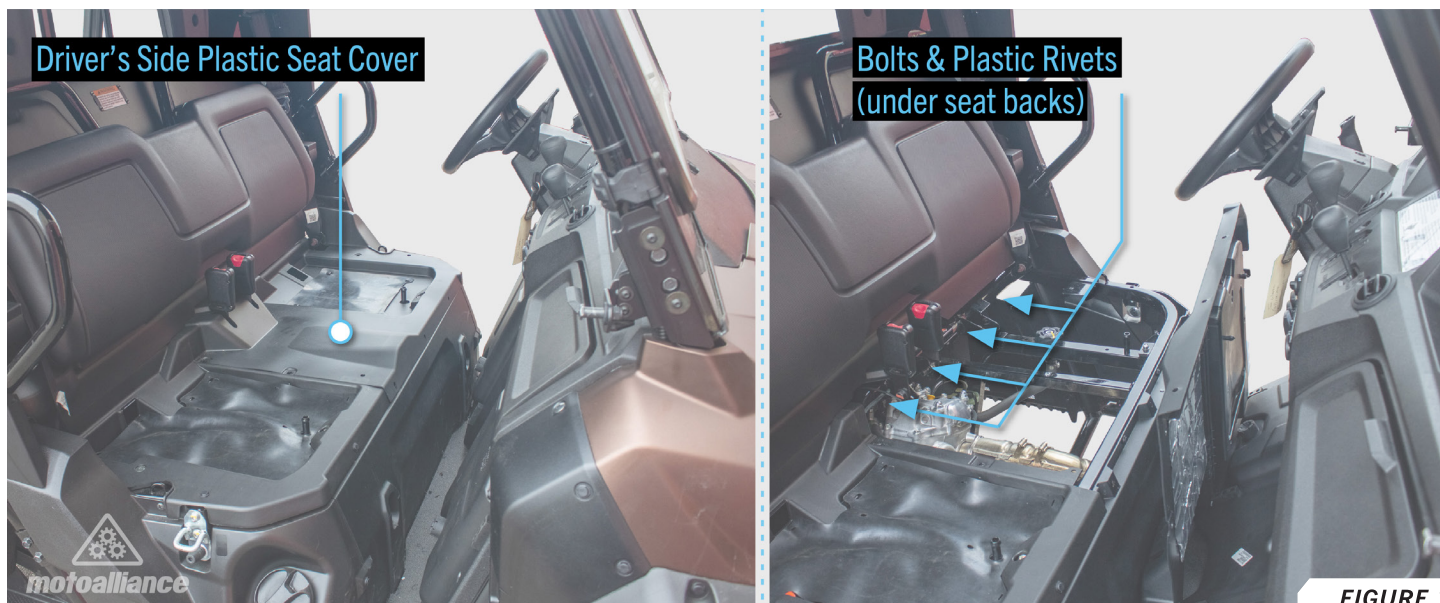


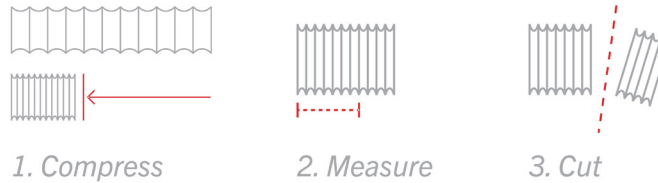
FIGURE 1

VENTS AND DUCTING

Check behind where the vents will go to ensure that no damage will occur when drilling holes.

4. Measure and cut the following lengths of COMPRESSED duct hose:

- 7" (qty 2)
- 6" (qty 2)



5. Pre-mark the center location for the defrost vents on the upper part of the dash.

6. Use the 2" hole saw and drill through the panel to make holes for each of the defrost vents. Clean up any burrs from around the holes, then insert the defrost vents into the holes. **FIGURE 2**



FIGURE 2

7. Mark the center location for the two foot vents on the underside of the dash. **FIGURE 3**
8. Use the 2" hole saw and drill through the panel to make holes for each of the foot vents. Clean up any burs from around the holes, then insert the two vents. **FIGURE 3**

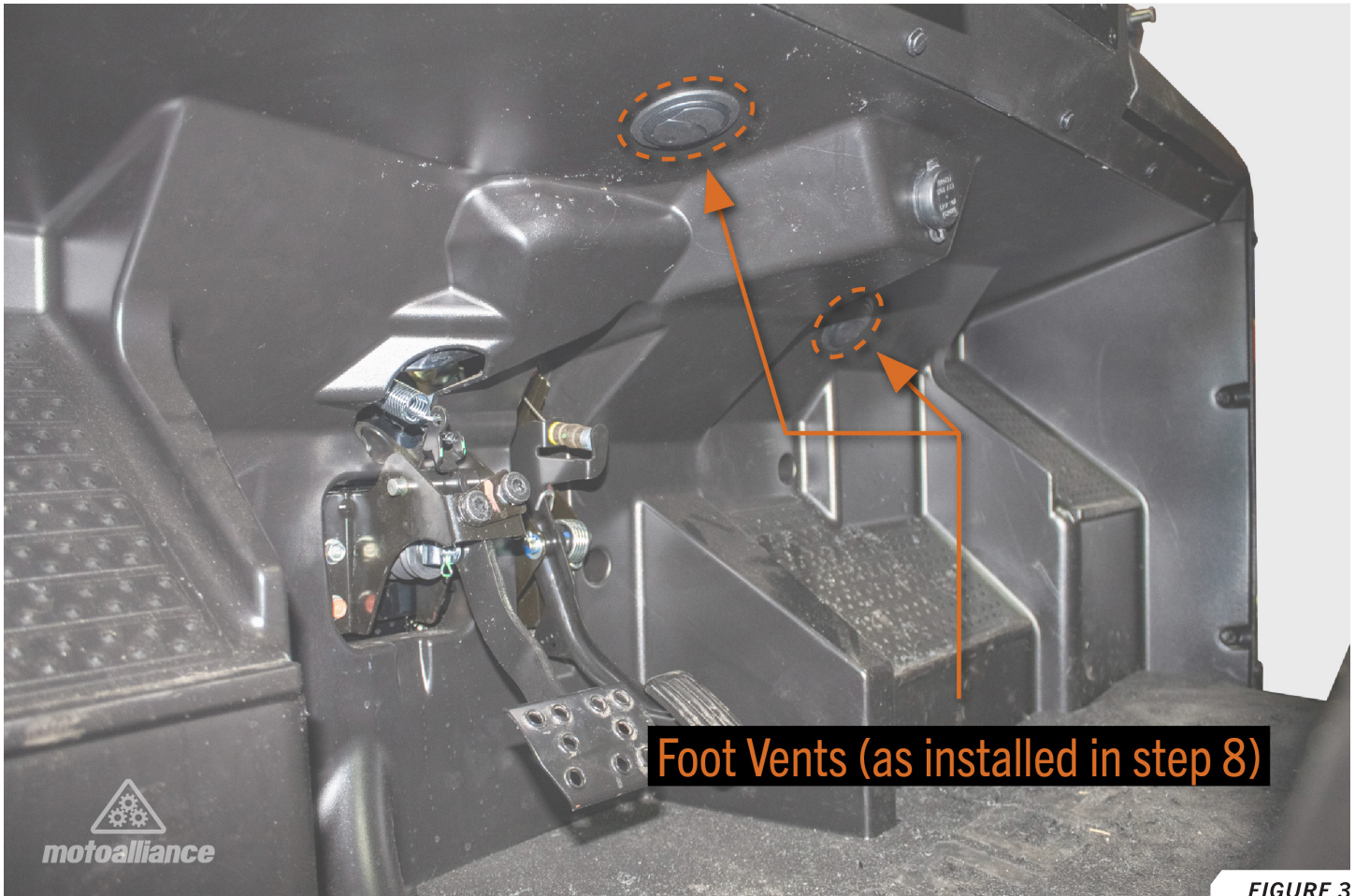


FIGURE 3

COOLANT HOSE ROUTING

9. Cut the 20' hose into two 8' sections and a 4' section.
10. Run both 8' coolant hose sections from the front of the machine—one through the driver side wheel well and the other through the passenger side wheel well—to the engine compartment under the seat. **FIGURE 4**

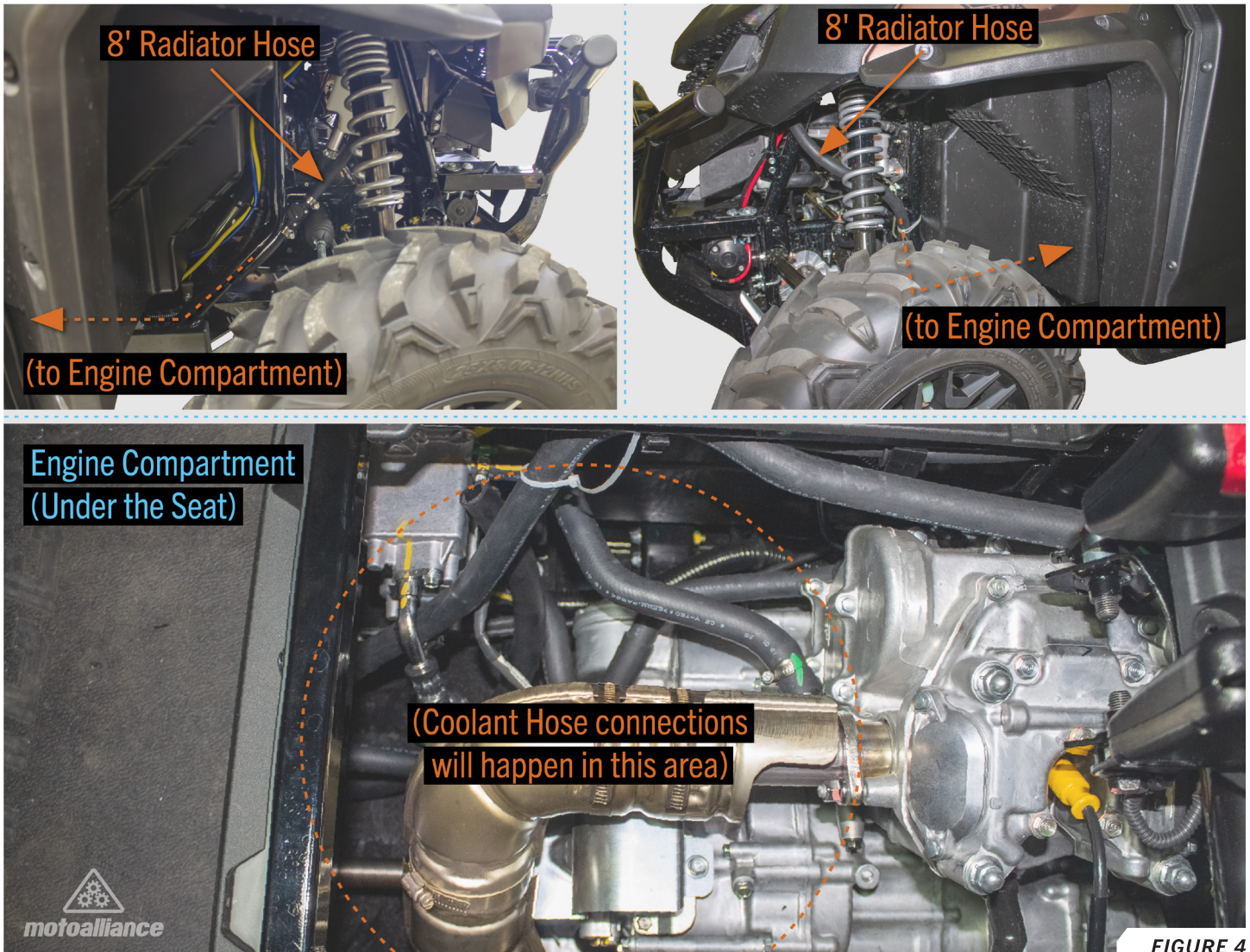
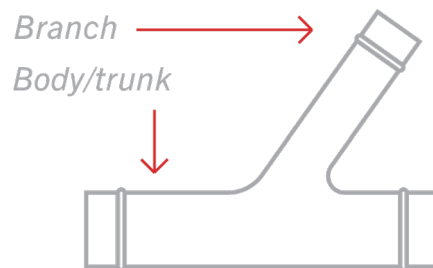
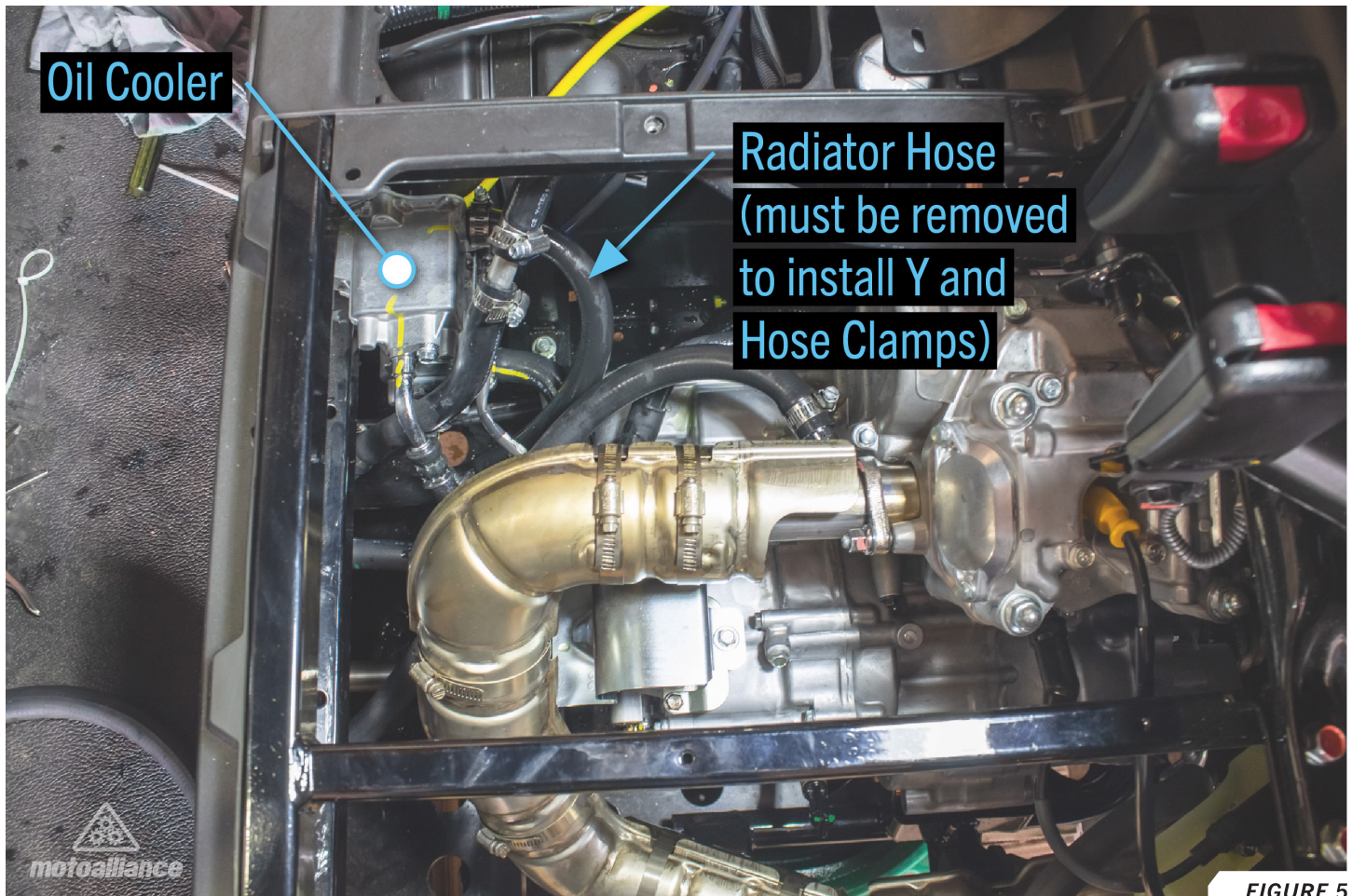


FIGURE 4

11. Remove radiator hose between the oil cooler to the engine. **FIGURE 5**
12. Connect one of the 8' radiator hose sections to the oil cooler and the other to the engine, securing each with the hose clamps that were on the original radiator hose. **FIGURE 5**
13. Cut the radiator hose from the oil cooler to the heater in an area close to the oil cooler. Insert a ½" Y with the branch pointing away from the oil cooler and secure using two #10 hose clamps. **FIGURE 5**



14. Cut the radiator hose connecting the engine to heater unit in an area close to the skid plate. **FIGURE 6**

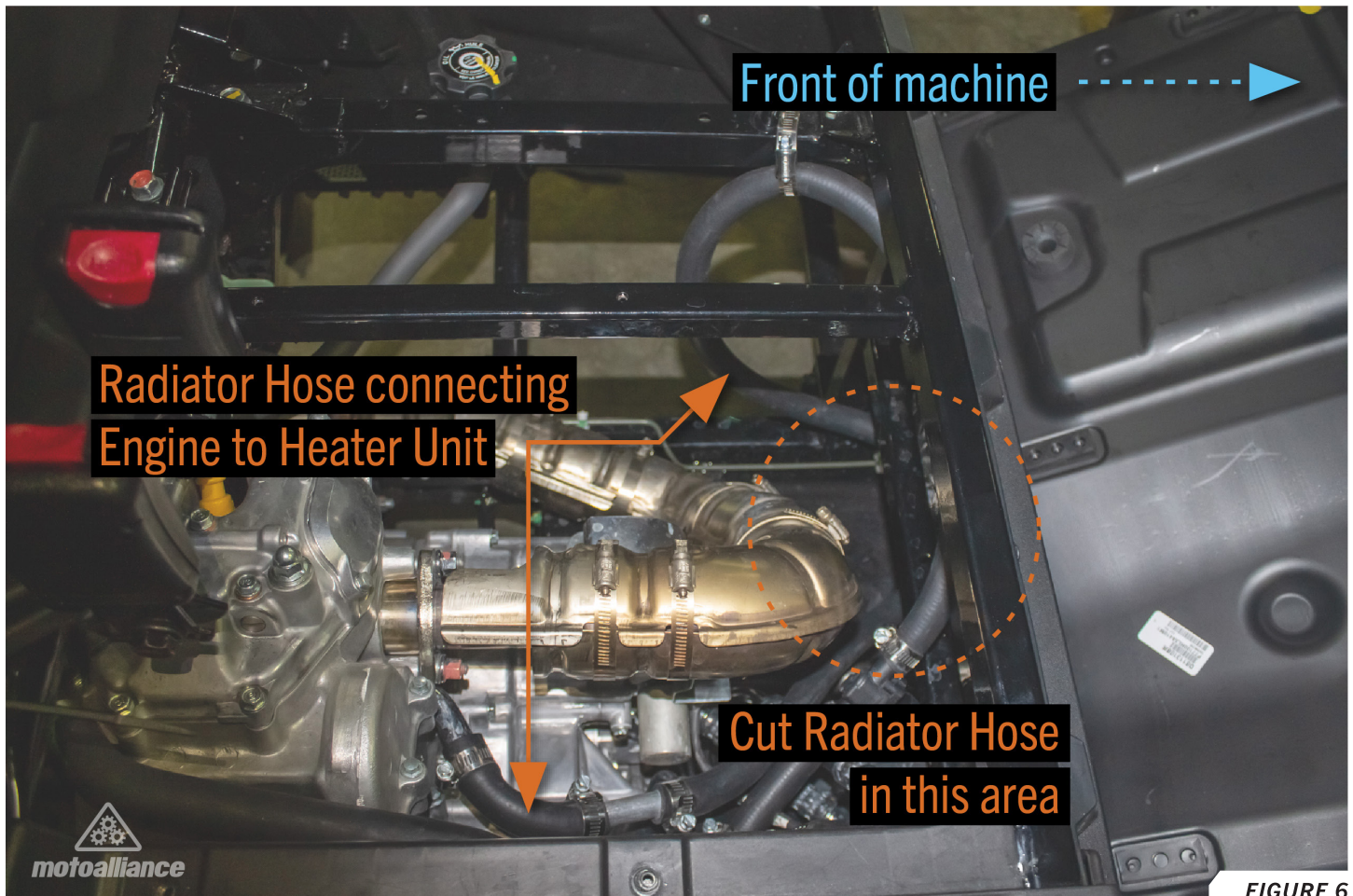


FIGURE 6

15. Take the radiator hose cut in the previous step and insert a 1/2" Y with the branch pointing toward the engine, securing using two #10 hose clamps. **FIGURE 7**
Connect remaining radiator hose on the branches of the two Y's, secure using #10 hose clamps.

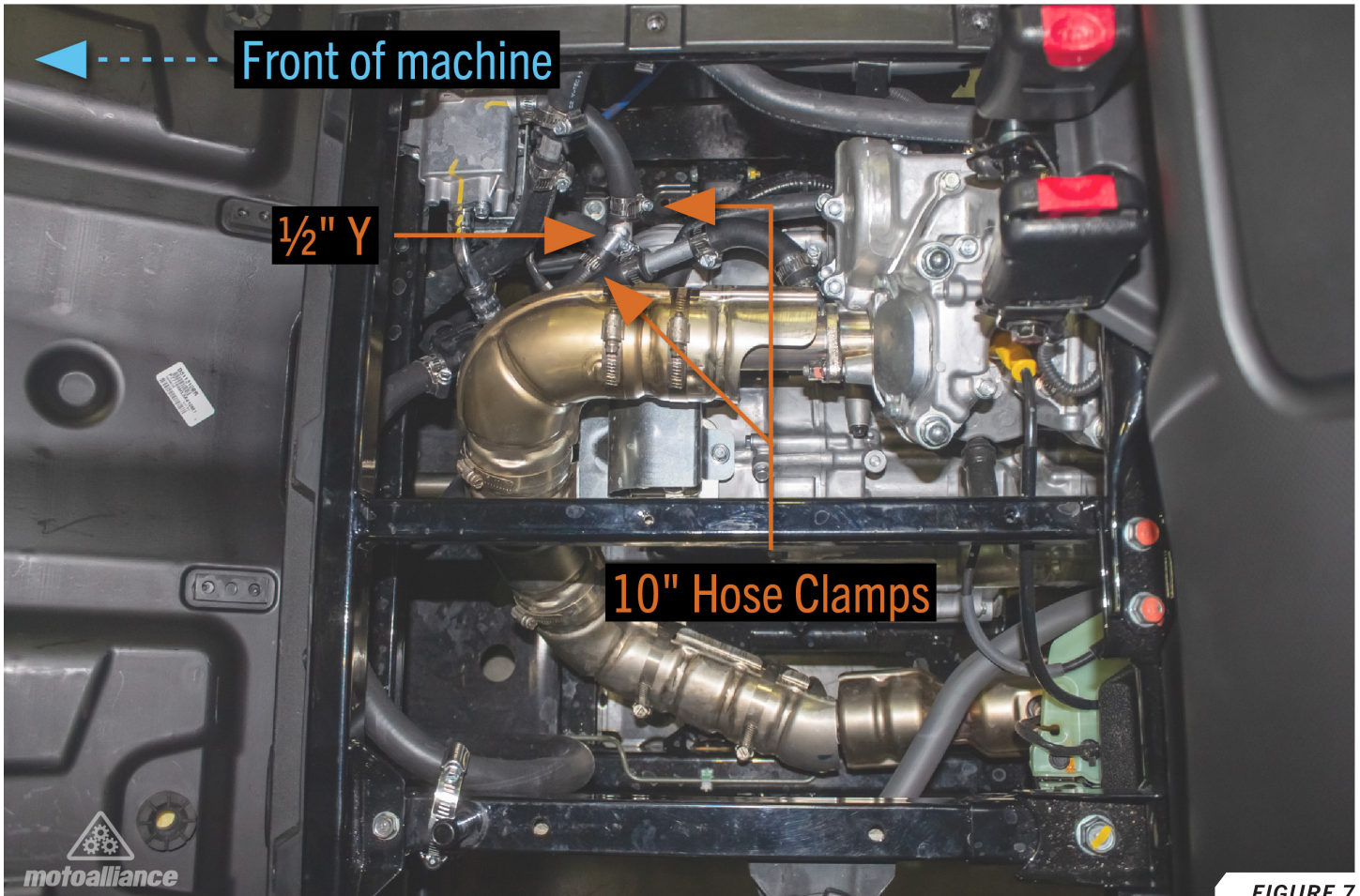


FIGURE 7



Do not let radiator hose rest on the exhaust cover.

16. On the same radiator hose where you just installed a Y (step 15), make a cut in an accessible location, insert a shut-off valve, and secure using #10 hose clamps. **FIGURE 8**

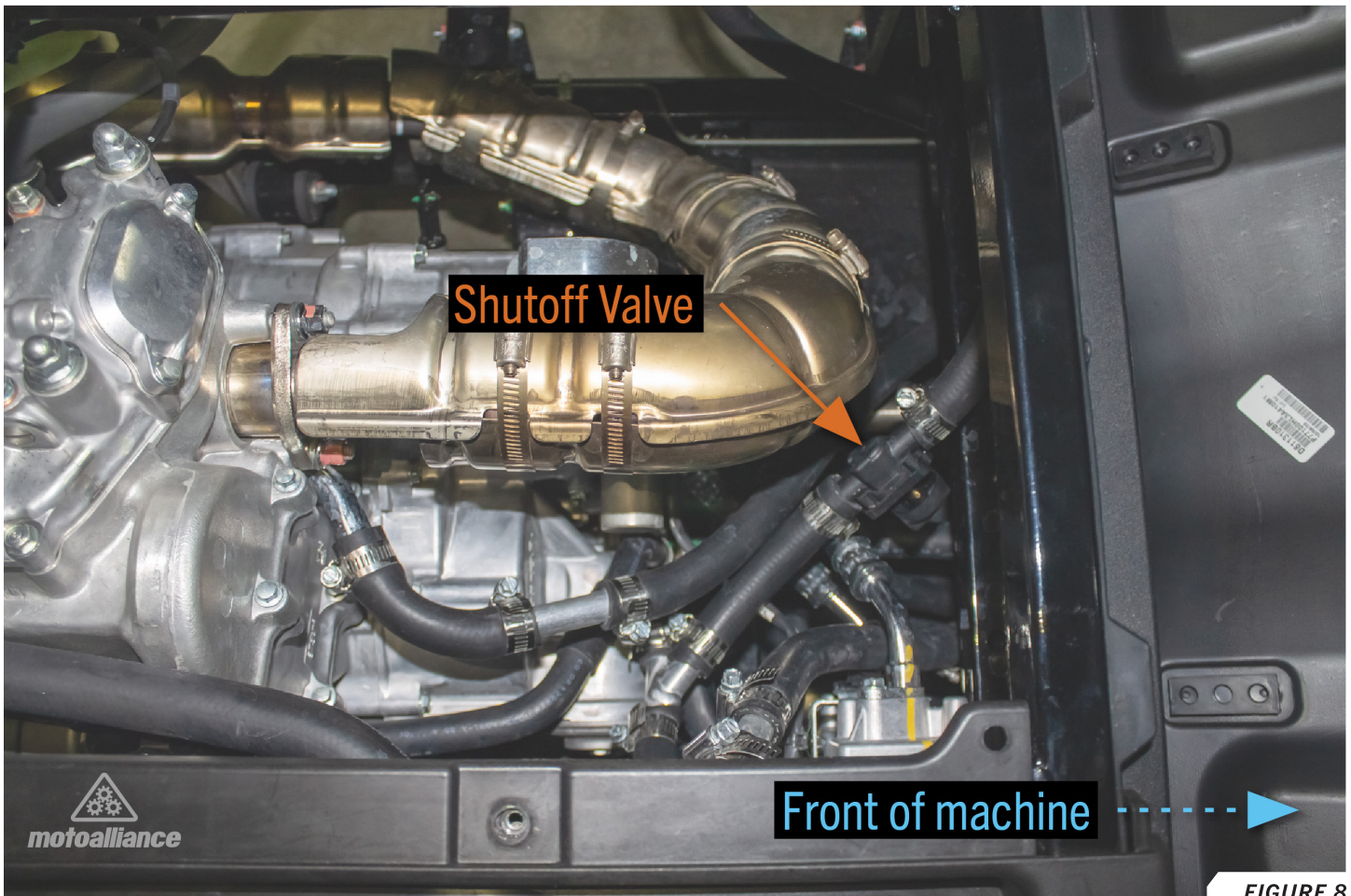


FIGURE 8

17. Cut the line running from the oil cooler to the heater unit near the passenger side wheel well and insert a shut-off valve—ensuring the valve is accessible—and secure using #10 hose clamps. *FIGURE 9*



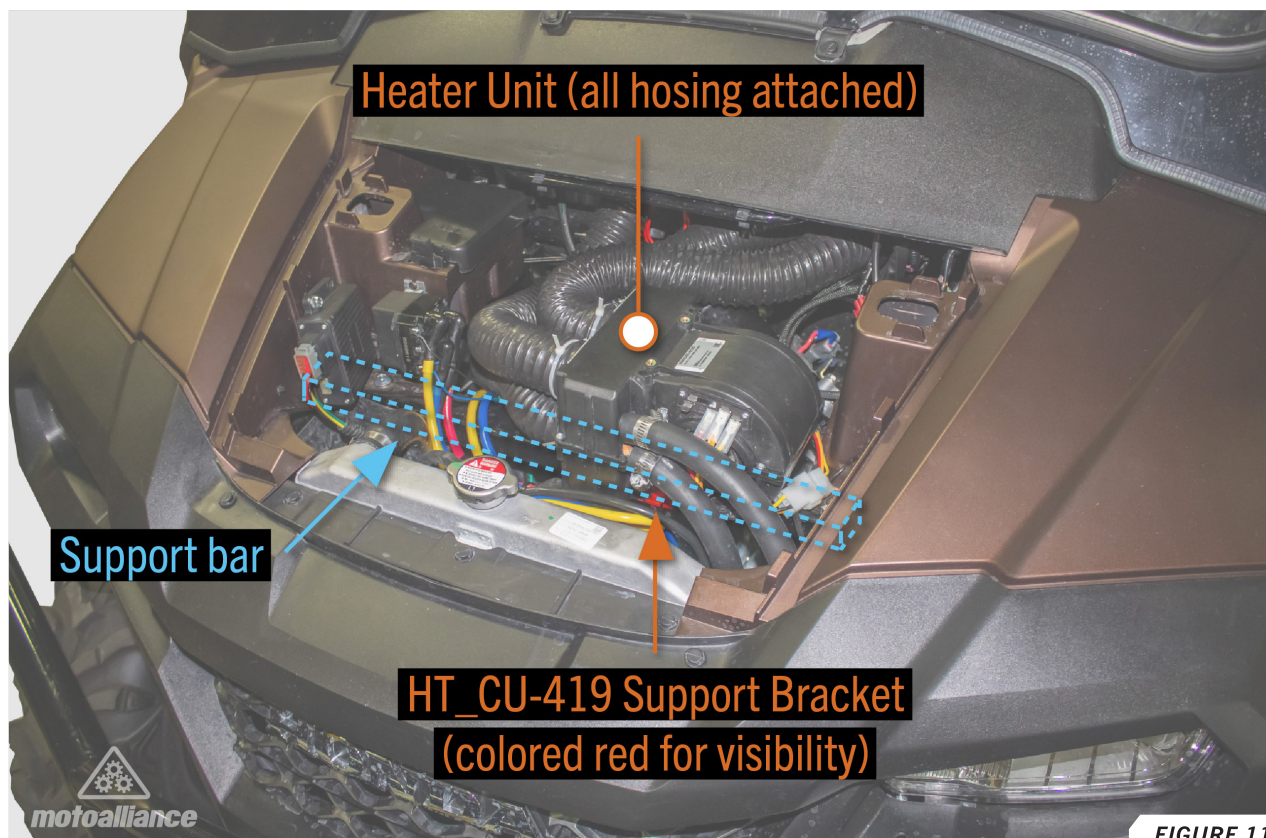
18. Connect both sections of radiator hose to the heater unit and secure using #10 hose clamps. Cut off any excess hose.
19. Look over the engine compartment to ensure no radiator hose is in contact with the drive shaft or exhaust cover. Use zip ties to secure radiator hoses away from the drive shaft and exhaust cover.

20. Look over both wheel wells to ensure the radiator hose will not be pinched from the wheel turning or when shocks are compressed. Use zip ties to secure the radiator hoses. **FIGURE 10**



CAB HEATER UNIT INSTALLATION

21. Take the HT_CU-419-1 bracket and place it underneath the support bar, under the hood of the machine. **FIGURE 11**



22. Use the two M6 bolts to secure the bracket to the heater unit.

23. Connect a 6" duct hose to the lower left hand side of the heater unit and to the passenger side foot vent.
24. Connect a 6" duct hose to the lower right hand side of the heater unit and to the passenger side defrost vent.
25. Connect a 7" duct hose to the upper left hand side of the heater to the driver side defrost vent.
26. Connect a 7" duct hose to the upper right hand side of the heater unit to the driver sided foot vent

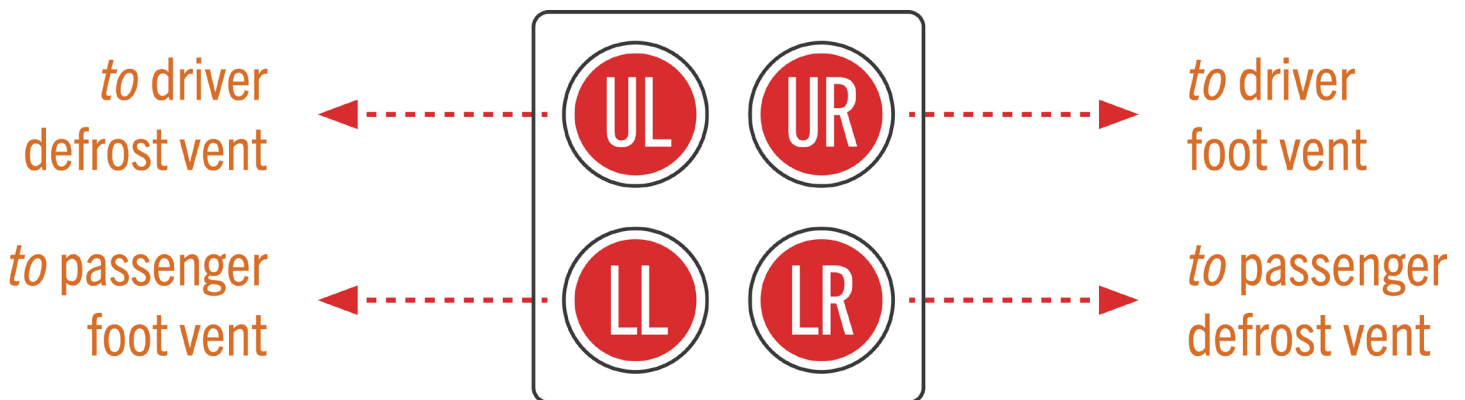


FIGURE 12

SWITCH WIRING

27. Locate the 36" Wiring Harness and ensure the wires are correctly connected to the 5-Pin Black Connector as shown in *FIGURE 13* and the 4-Pin White Connector as shown in *FIGURE 14*.

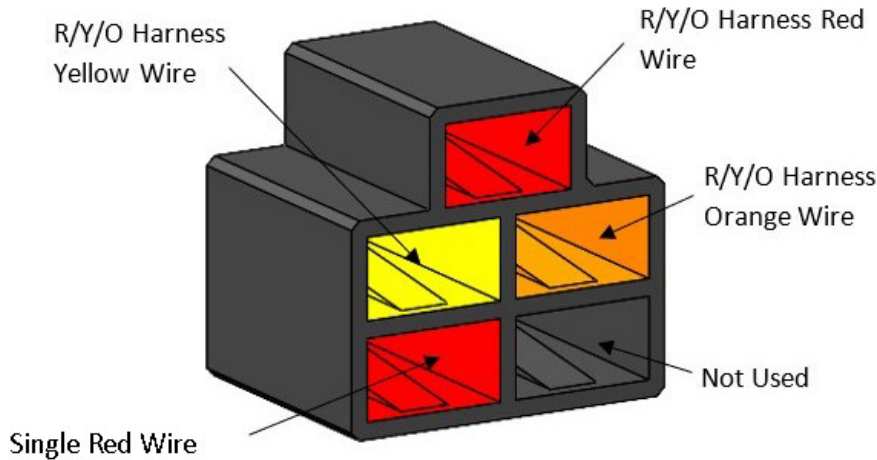


FIGURE 13

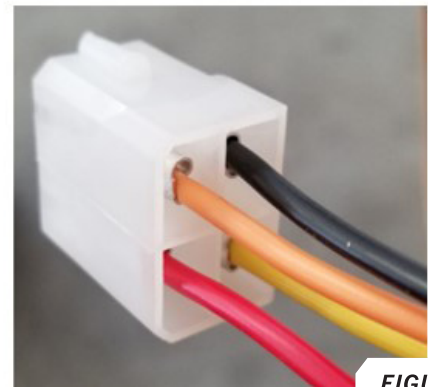
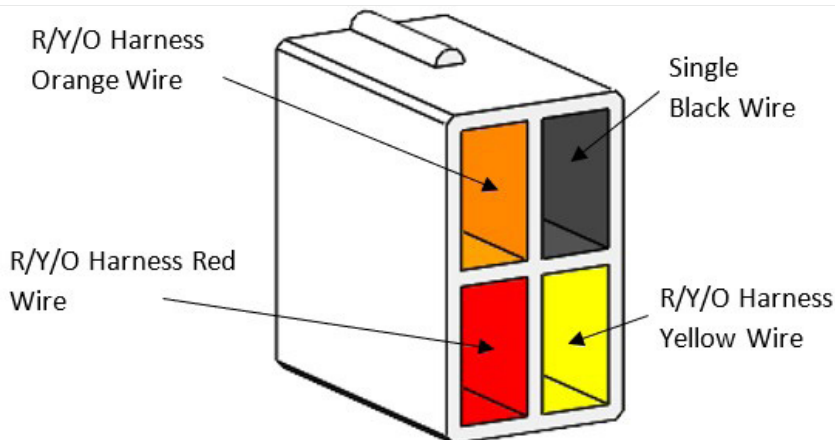


FIGURE 14

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

35. 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.

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

BLEEDING THE COOLANT SYSTEM

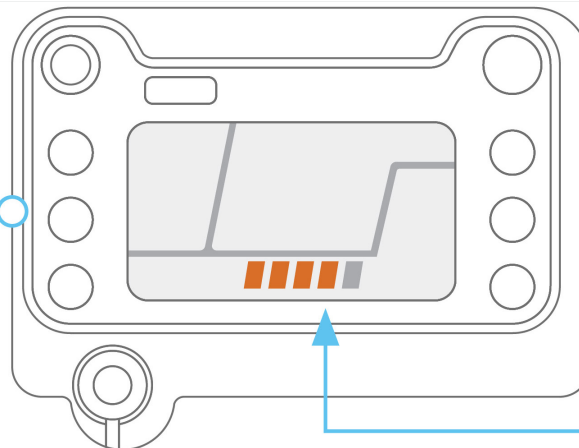
Read entire section before proceeding

 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.

36. Fill radiator with coolant until radiator is full.
37. Open the shut-off valve.
38. 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.
39. Turn off the machine and wait for it to cool down.
40. Open the radiator cap and add more coolant.
41. Repeat the steps in this section until consistent heat is coming out of the vents and machine temperature gauge does not go over four bars. **FIGURE 17**

Look at owner's manual for manufacturer-approved coolant

Multi-function display (located in front of driver on the dash)



Temperature Gauge (ensure temperature does not go over four bars)

FIGURE 17

42. Verify that no leaks have occurred and that the radiator fluid level is per the manufacturer's specifications.

FINISHING

43. Install the driver side plastic seat cover on the machine.
44. Install the seat.
45. Install the 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

Item Description	SKU
5/8" Radiator Hose	HT_RadiatorHose_20
1/2" Aluminum Y	HT_1/2
Shut-Off Valve	HT_Plastic_Shutoff_Valve

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

