



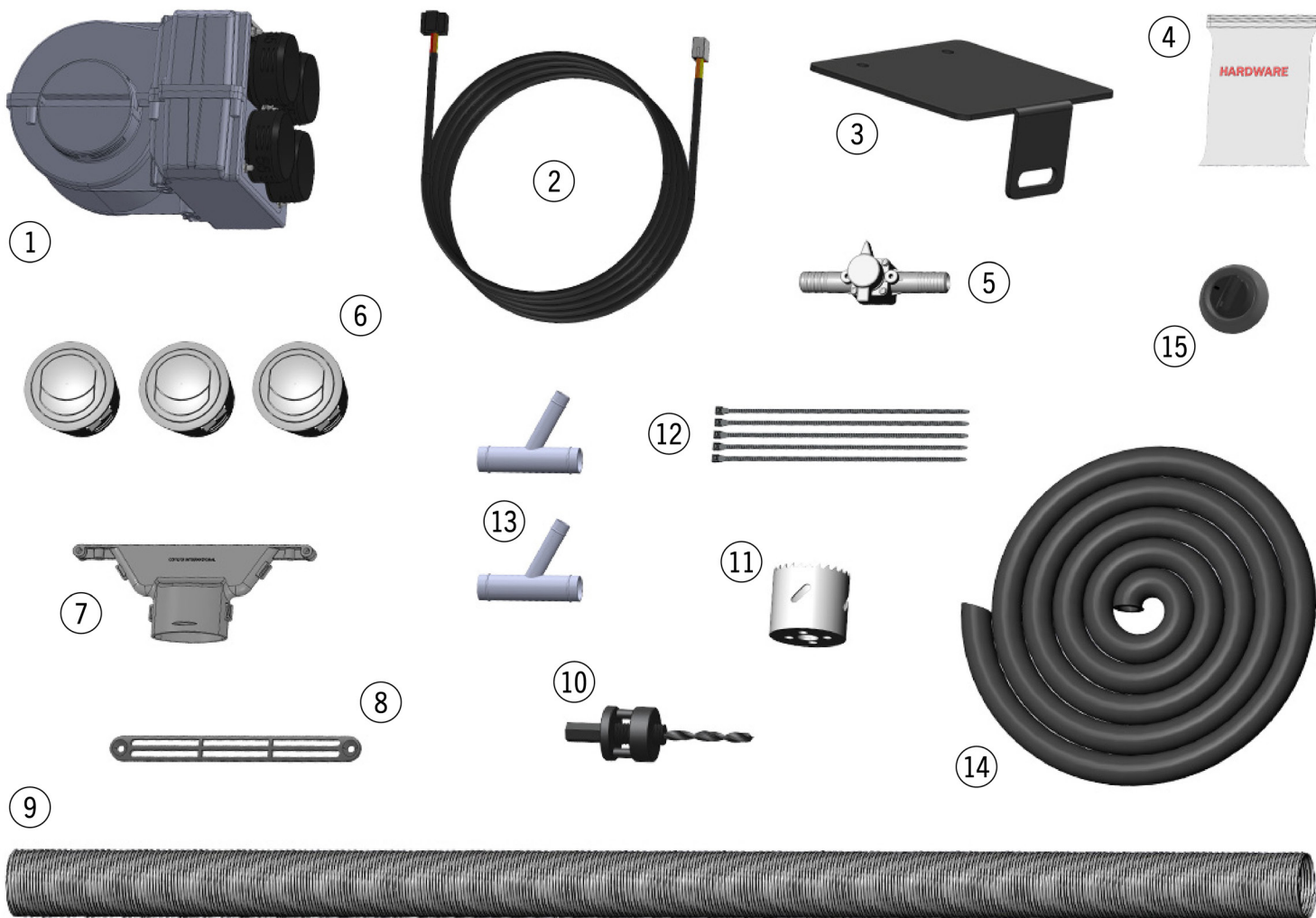
FIRESTORM
C A B H E A T E R S

Intimidator GC1K Cab Heater

HT_CU_472

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_472-1 Heater Mount Bracket
4	1	Hardware Pack
	2	3/8"-16x3.75" Bolts

Part#	Qty	Item Description
	4	3/8"x1" Washers
	2	3/8"-16 Nyloc Nuts
	2	M6 x 10 Bolts
	2	M6 Washers
	2	Insulation Displacement Crimp
	6	#10 Stainless Steel Hose Clamps
	4	#16 Stainless Steel Hose Clamps
5	1	Plastic Shut-Off Valve
6	3	50mm Vent
7	1	Plenum Vent

Part#	Qty	Item Description
8	1	Vent Grille
9	40"	2" Compressed Duct Hose
10	1	Hole Saw Pilot Bit
11	1	2 1/8" Hole Saw
12	10	Zip Ties
13	2	7/8" Aluminum Y
14	10'	5/8" 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 driver and passenger side doors and set aside.
2. Remove the driver and passenger front quarter panels and set aside.
3. Remove the hood struts from the hood and lean the hood against windshield area.

HOLE DRILLING

4. Locate and mark the cut/drill locations on the firewall. **FIGURE 1**

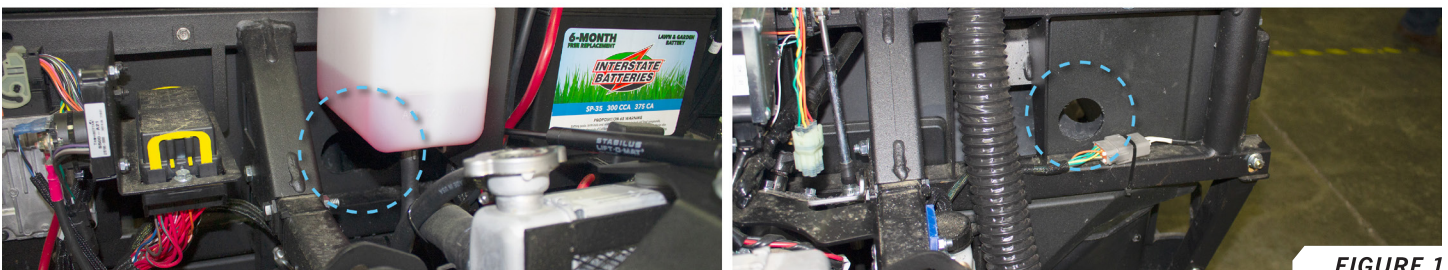
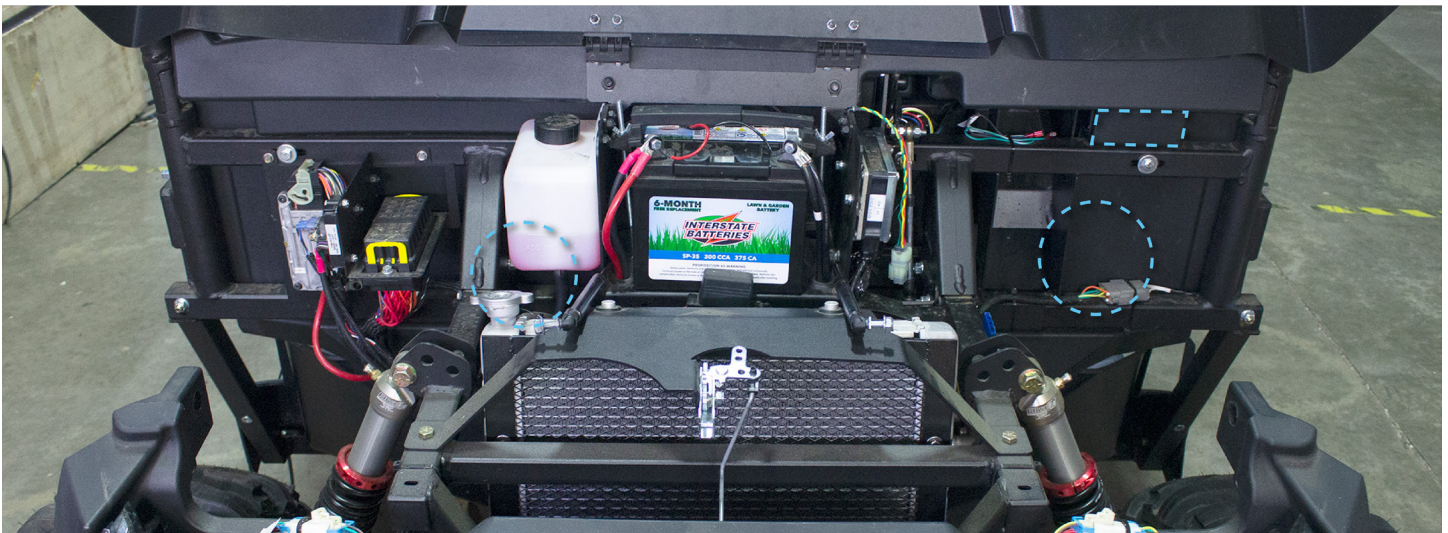


FIGURE 1

5. Cut/drill the plastic firewall layer at the marked locations. **FIGURE 1**

6. Locate and mark the cut/drill locations in the cab. **FIGURE 2**



7. Use the included 2½" hole saw pilot bit and hole saw to drill all vent holes.
8. Cut/drill the plastic dash at the marked location for the plenum vent. **FIGURE 3**



9. Mark the center of the 3-position switch bezel, then remove the bezel and drill out the hole with a $\frac{7}{16}$ " drill bit. **FIGURE 4**



FIGURE 4

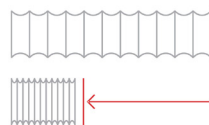
10. Remove any burrs from the previously drilled/cut holes.

TEMPLATES

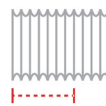
Some steps in this section will require a partner.

11. Cut the 40" length of compressed duct hose into the following lengths and discard any excess:

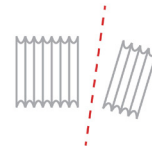
- 6" compressed
- 6" compressed
- 6" compressed
- 18" compressed



1. Compress



2. Measure



3. Cut

12. Attach a 6" length of duct hose to the plenum vent and secure with zip ties.
13. Attach the remaining lengths of duct hose to the 50mm vents and secure with zip ties.

14. Place the plenum vent and hose in its intended location under the dash, utilizing the driver side firewall access location.
15. While a partner holds the plenum vent and hose in place under the dash, place the vent grille over the vent location and secure the grill and vent to the dash using the provided self-tapping screws. **FIGURE 5**



FIGURE 5

16. Route the hose and vent from the upper dash in the cab, through the dash and firewall area, and pull through the driver side firewall access location created in step 5. **FIGURE 6**
17. Route the hose and vent from the driver side lower dash in the cab, through the dash and firewall area, and pull through the driver side firewall drill location created in step 6. **FIGURE 6**

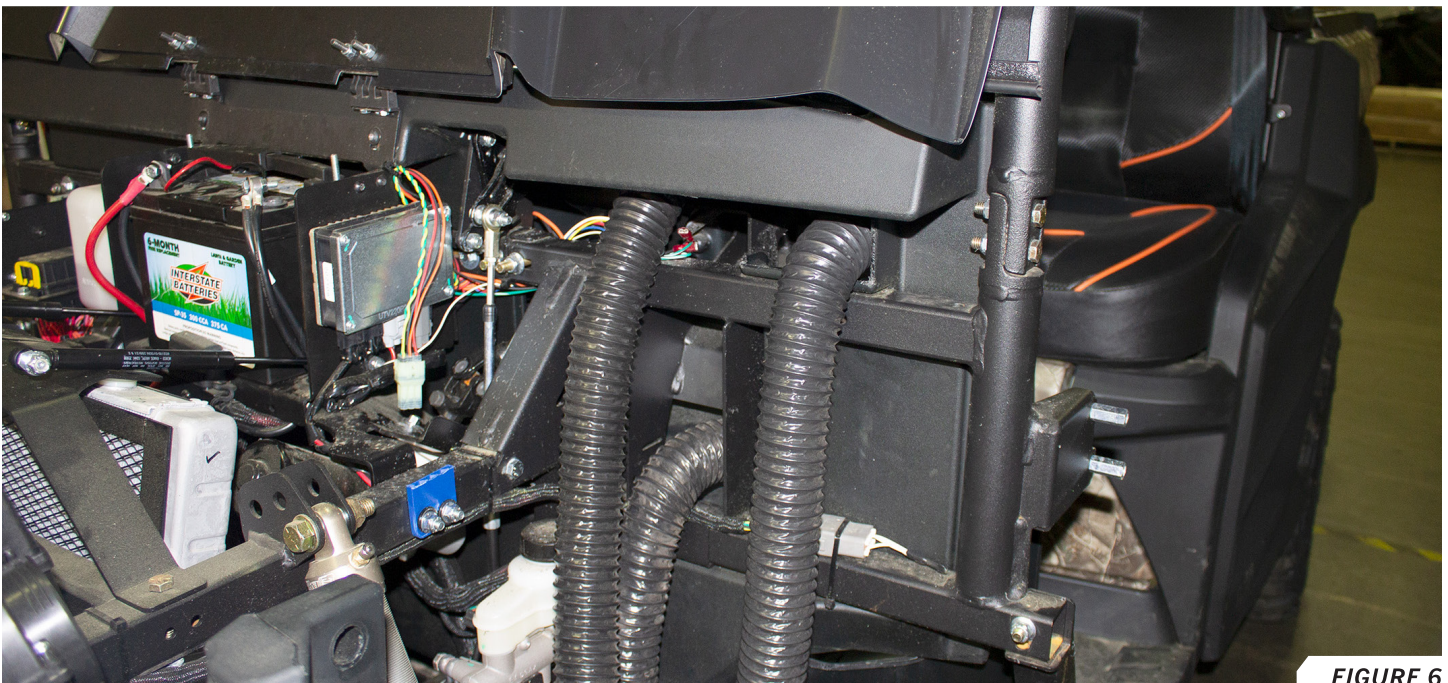


FIGURE 6

18. Route the hose and vent from the passenger side lower dash in the cab, through the drill location created in step 5. **FIGURE 7**



FIGURE 7

19. Do not attach the hoses to the heater unit at this time.

HEATER INSTALLATION

20. Attach the HT_CU_472-1 heater bracket to the mounting location. **FIGURE 8**

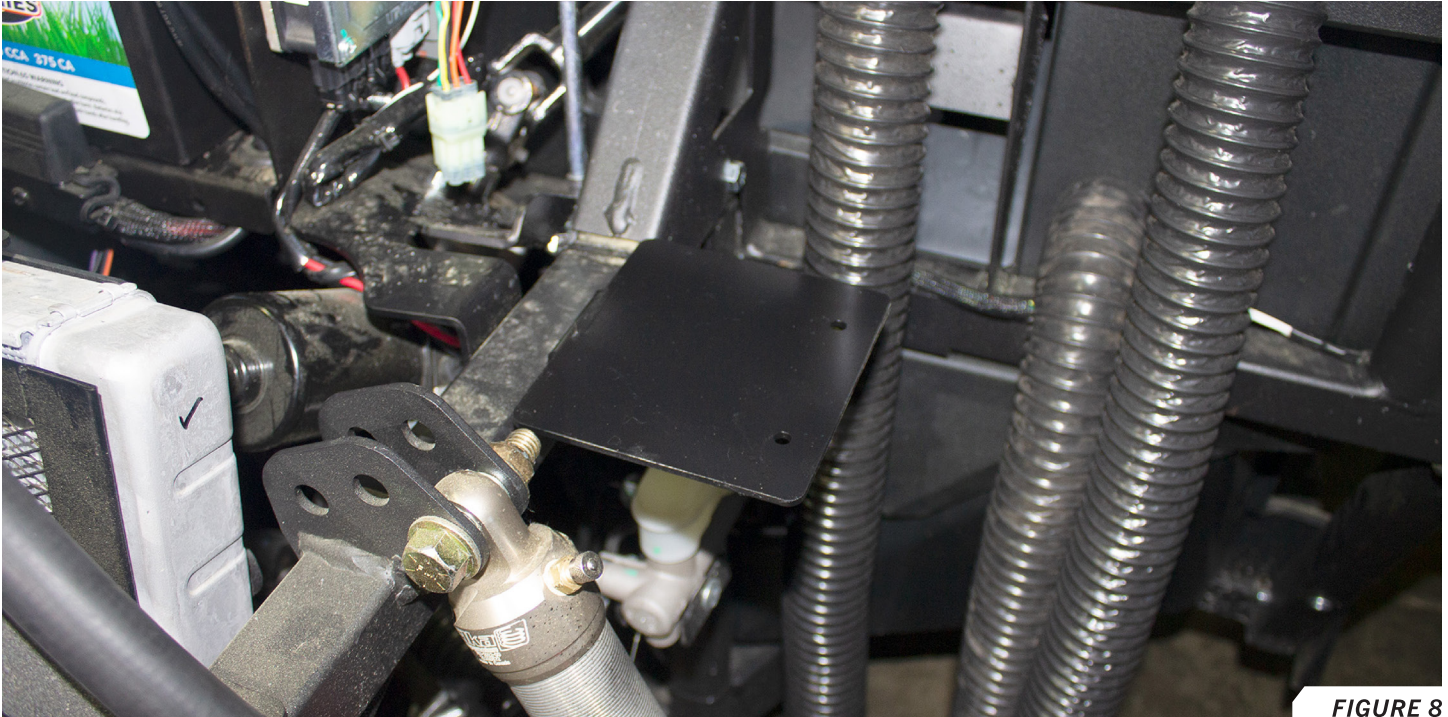


FIGURE 8

21. Attach the heater unit to the bracket using the provided M6 hex head bolts. **FIGURE 9**
22. Attach all duct hoses to the heater unit.

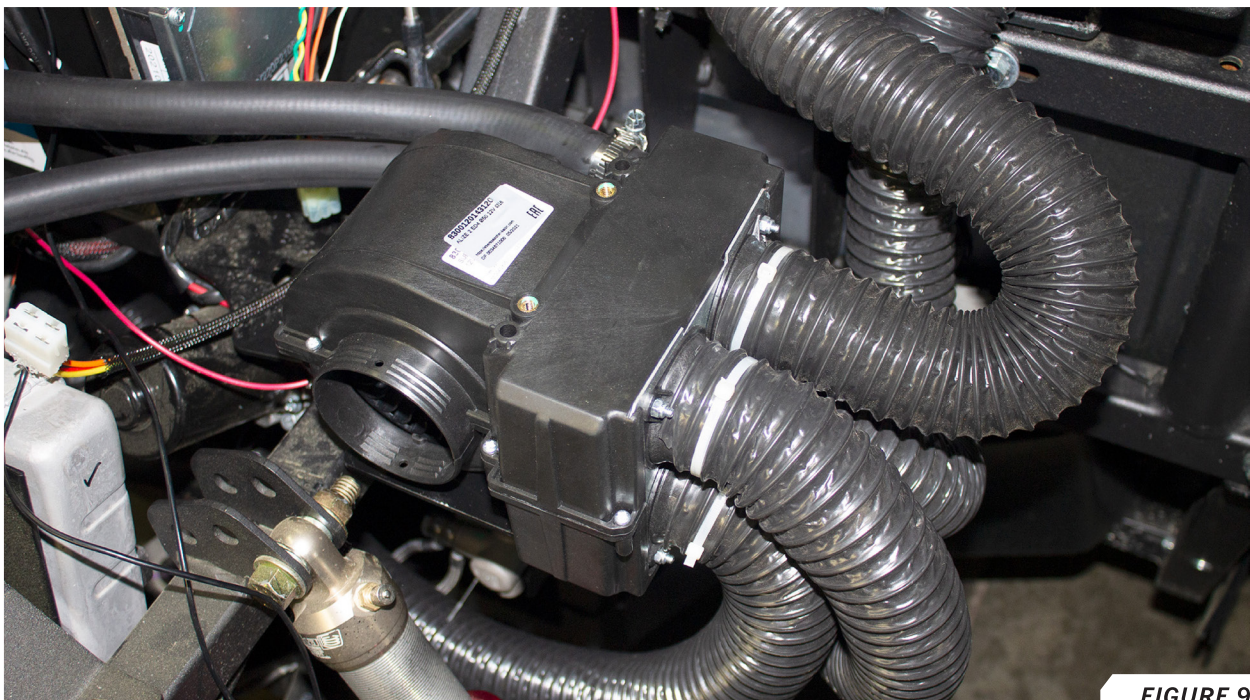


FIGURE 9

SWITCH WIRING

23. Locate the 36" wiring harness and ensure the wires are correctly connected to the 5-pin black connector as shown in **FIGURE 10** and the 4-pin white connector as shown in **FIGURE 11**.

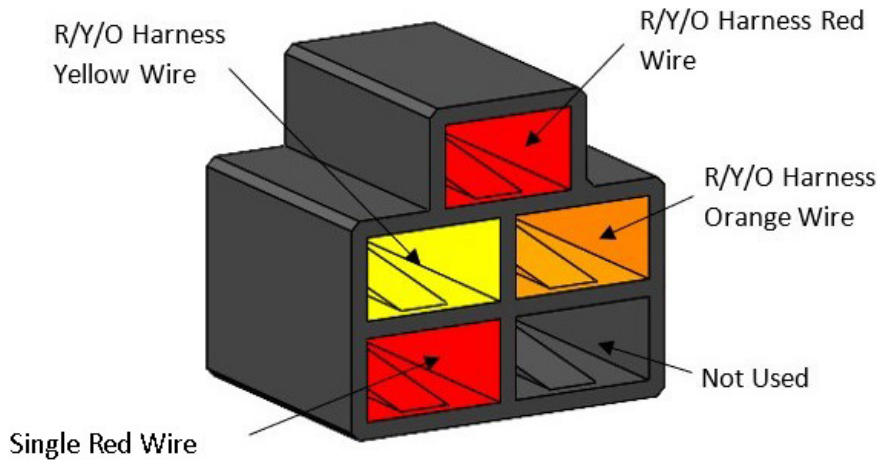


FIGURE 10

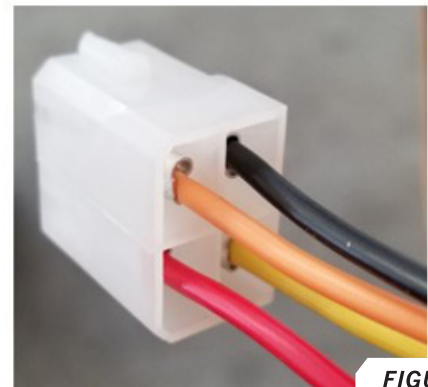
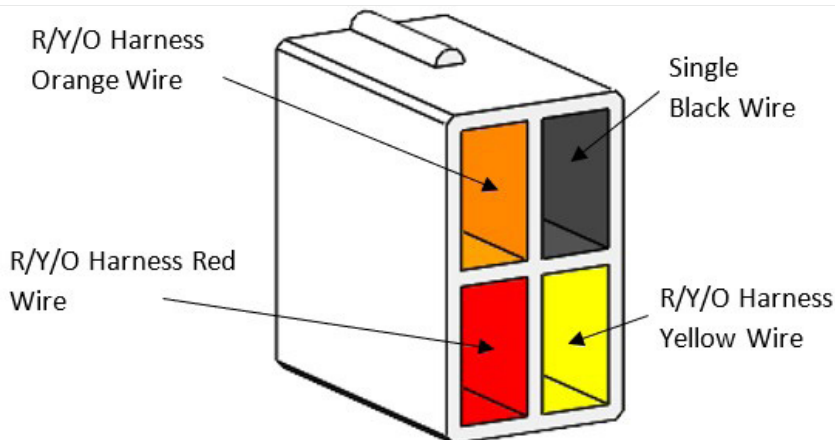


FIGURE 11

24. Connect the 5-pin black connector to the 3-position switch included in the kit.
25. 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.
26. 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 12**.
27. Place the bezel over the switch so that the 0, 1, 2, 3 markings are visible.



FIGURE 12

28. Press the switch dial onto the switch until it is seated firmly.
29. Connect the white 4-pin connector to the white terminal housing on the heater unit.
30. 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.
31. Connect the black wire to the negative battery terminal.
32. 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.

RADIATOR HOSE INSTALLATION

33. Cut the provided radiator hose in half.
34. Connect the provided radiator hoses to the copper inlet/outlet ports on the heater unit and secure with #10 hose clamps. **FIGURE 13**

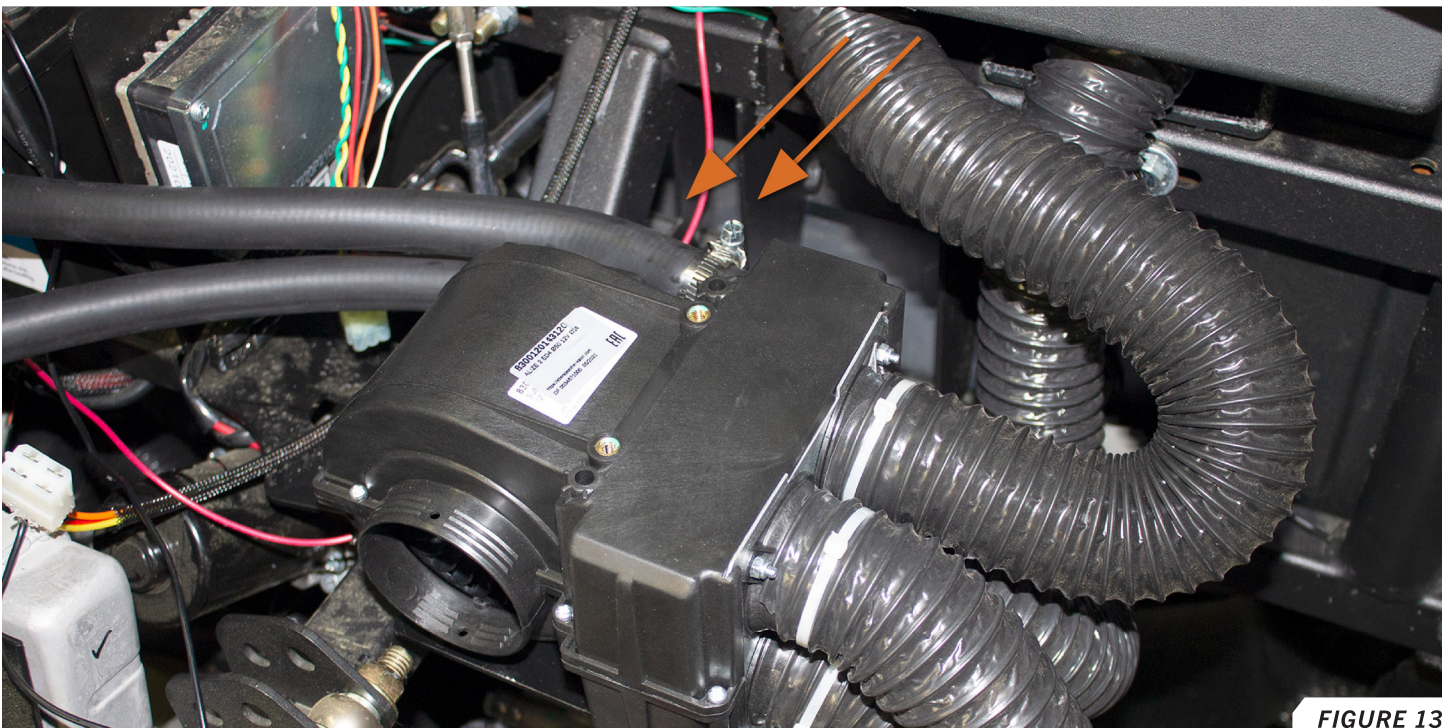


FIGURE 13

35. Route the provided radiator hoses to the passenger side wheel well, ensuring the hoses do not interfere with steering, suspension, or hood components. **FIGURE 14**

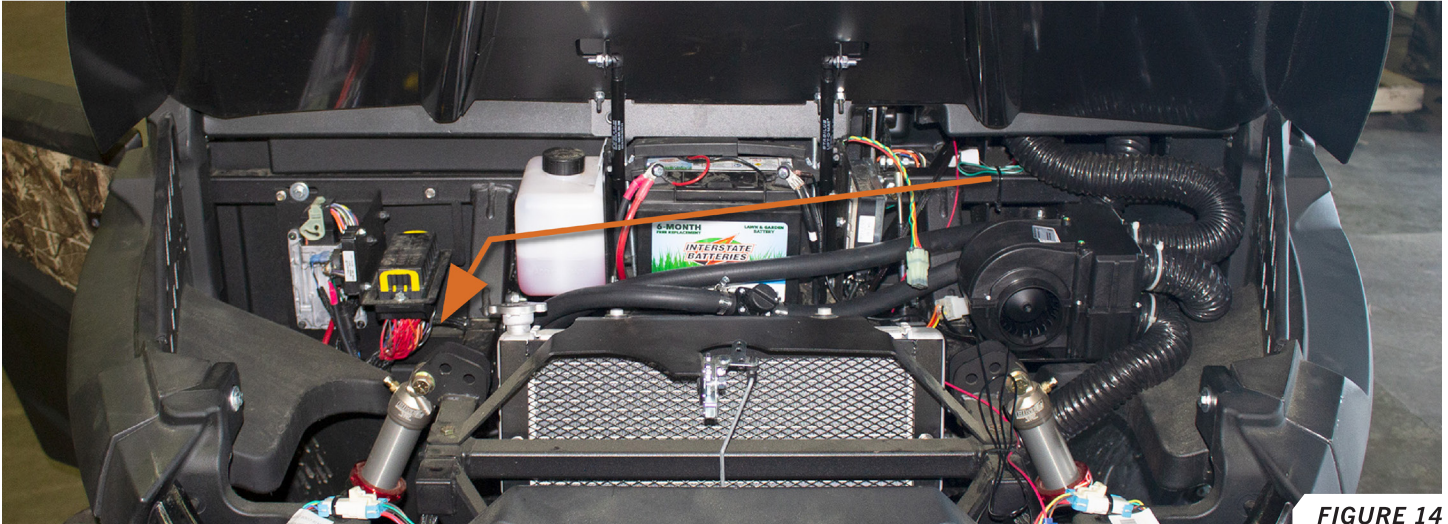


FIGURE 14

36. Mark locations for aluminum Ys on both factory radiator hoses. **FIGURE 15**
37. Cut the factory radiator hoses at the marked locations.
38. Install the aluminum Ys to the factory radiator hoses with the branch of the Y facing up and secure with #16 hose clamps.
39. Connect the provided radiator hoses to the aluminum Ys and secure with #10 hose clamps. **FIGURE 15**

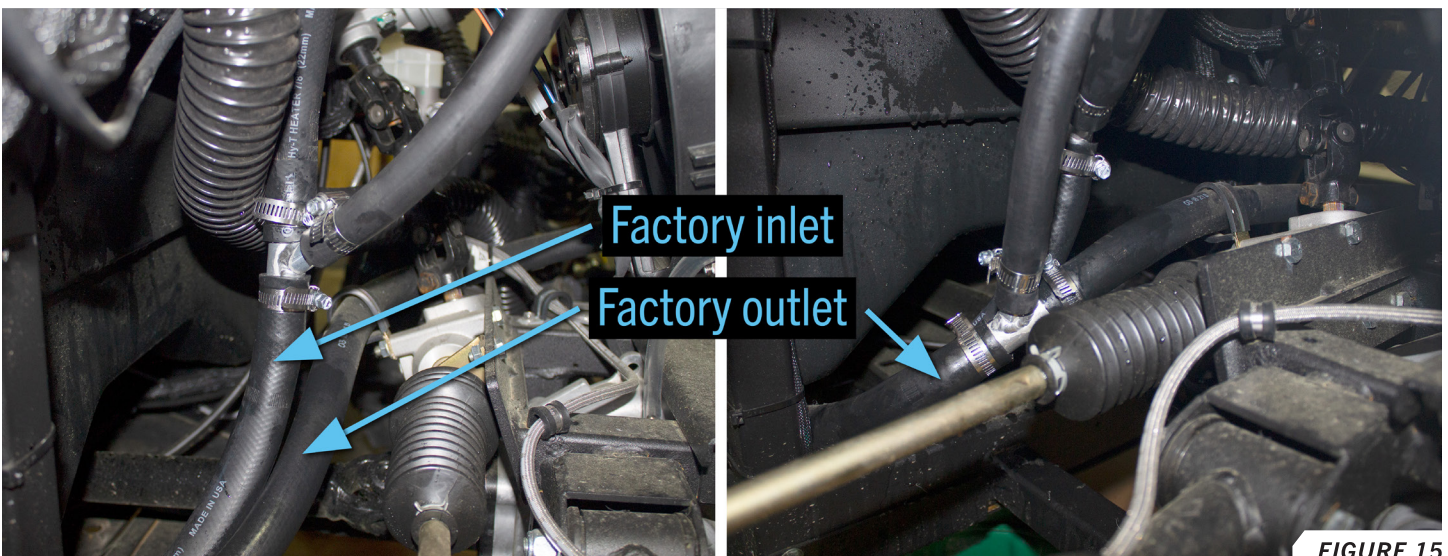
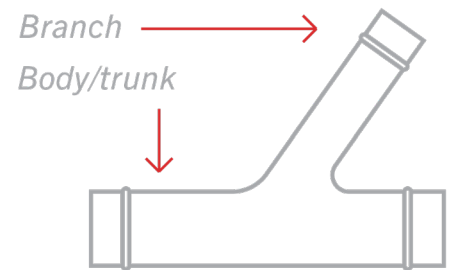


FIGURE 15

40. Mark a convenient, accessible location on the factory inlet radiator hose for the shut off valve.
41. Cut the factory inlet radiator hose at the marked location.
42. Install the shut off valve and secure with #10 hose clamps. *FIGURE 16*

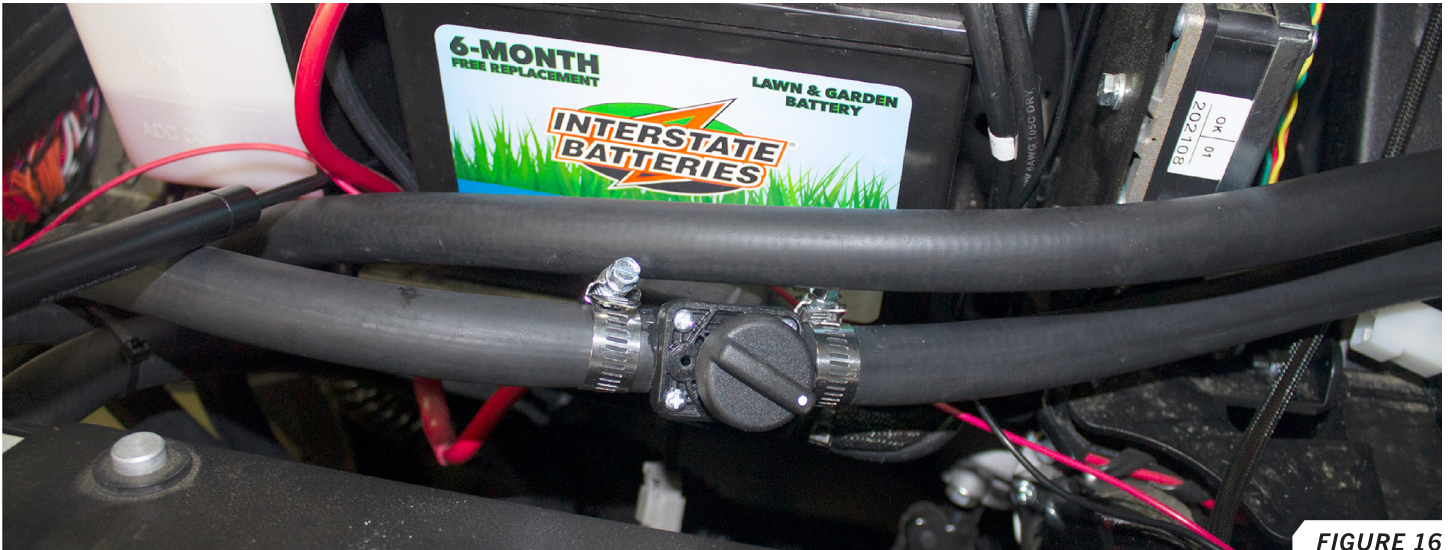


FIGURE 16

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.

43. Fill radiator with coolant until radiator is full.
44. Open the shutoff valve.
45. 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.
46. Turn off the machine and wait for it to cool down.
47. Open the radiator cap and add more coolant.
48. Repeat the steps in this section until consistent heat is coming out of the vents and machine temperature gauge stays under 200°F.
49. 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

REASSEMBLING PANELS

50. Reinstall the driver and passenger quarter panels.
51. Reinstall the driver and passenger doors.
52. Reattach the hood struts to the 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_20
7/8" Aluminum Y	HT_AluminumY_7/8

Item Description	SKU
Shut-Off Valve	HT_Plastic_Shut-off_Valve
Hole Saw Pilot Bit	HT_PilotBit
2 1/8" Hole Saw	HT_2.125_SAW
Plenum Vent	HT_Plenum
Vent Grille	HT_VentGrille

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

