



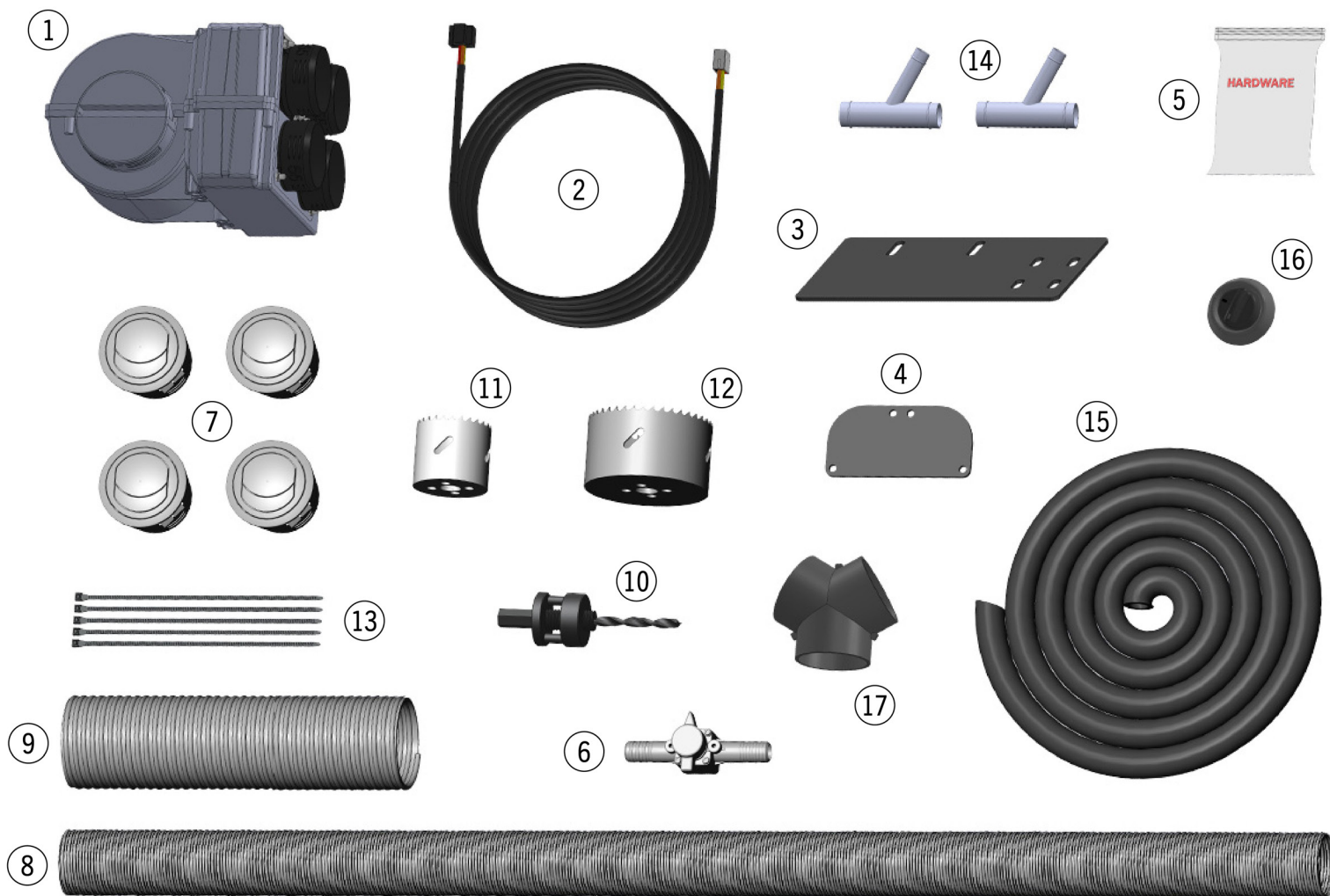
FIRESTORM
C A B H E A T E R S

Kawasaki Teryx 4 Cab Heater

HT_CU_433

INSTALLATION INSTRUCTIONS

PARTS LIST



Part#	Qty	Item Description
1	1	FIRESTORM Cab Heater Unit
2	1	96" Wiring Harness
		Orange/Yellow/Black Wire
		Red Wire
		Black Wire
		5-Pin Black Connector
		4-Pin White Connector
3	1	HT_CU_433-1 Heater Bracket
4	1	HT-CU-499-20 Vent Cover Bracket
5	1	Hardware Pack

Part#	Qty	Item Description
	2	Square U-Bolt
	2	M6-1.0x12mm Hex Head Screw
	2	M6 Flat Washer
	2	M6 Hex Nut
	2	Insulation Displacement Crimp
6	1	#10 Stainless Steel Hose Clamps
	4	#16 Stainless Steel Hose Clamps
6	1	Plastic Shut-Off Valve
7	4	50mm Vent
8	40"	2" Compressed Duct Hose

Part#	Qty	Item Description
9	10"	2.5" Compressed Duct Hose
10	1	Hole Saw Pilot Bit
11	1	2 1/8" Hole Saw
12	1	3" Hole Saw
13	20	Zip Ties
14	2	1" Aluminum Y
15	20'	5/8" Coolant Hose
16	1	3-Position Switch
17	2	2" Plastic Y



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, if applicable.
2. Remove the hood of the vehicle.
3. Remove the plastic rivets and screws holding the side panels in place, then remove the panels as shown in **FIGURE 1**.

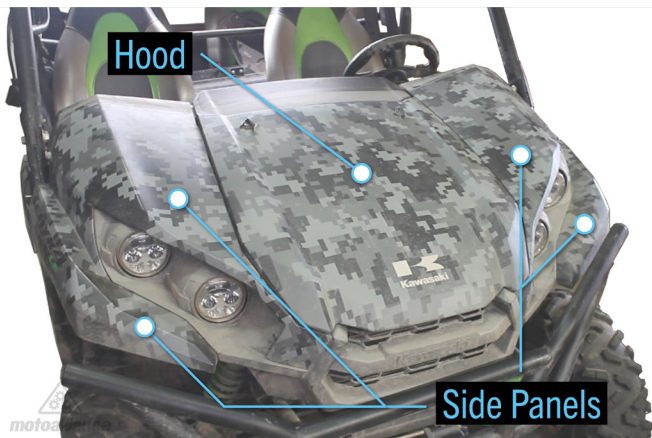


FIGURE 1

4. Remove the plastic rivets and screws holding the upper dash assembly in place then lift the upper dash assembly away as shown in **FIGURE 2**. It will be tethered by the cables going to the fuse box.

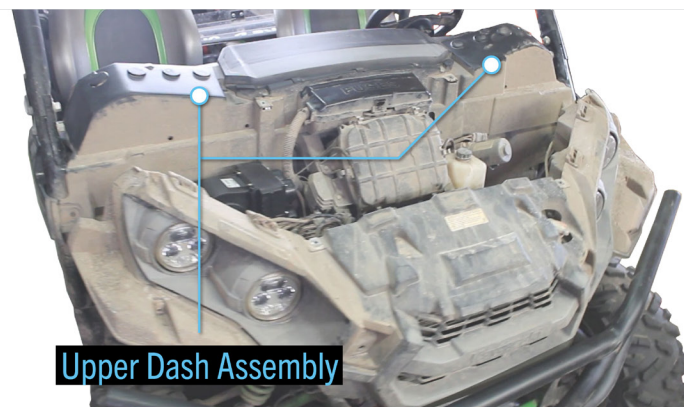


FIGURE 2

5. Slide the square U-bolts onto frame as shown in *FIGURE 3*.

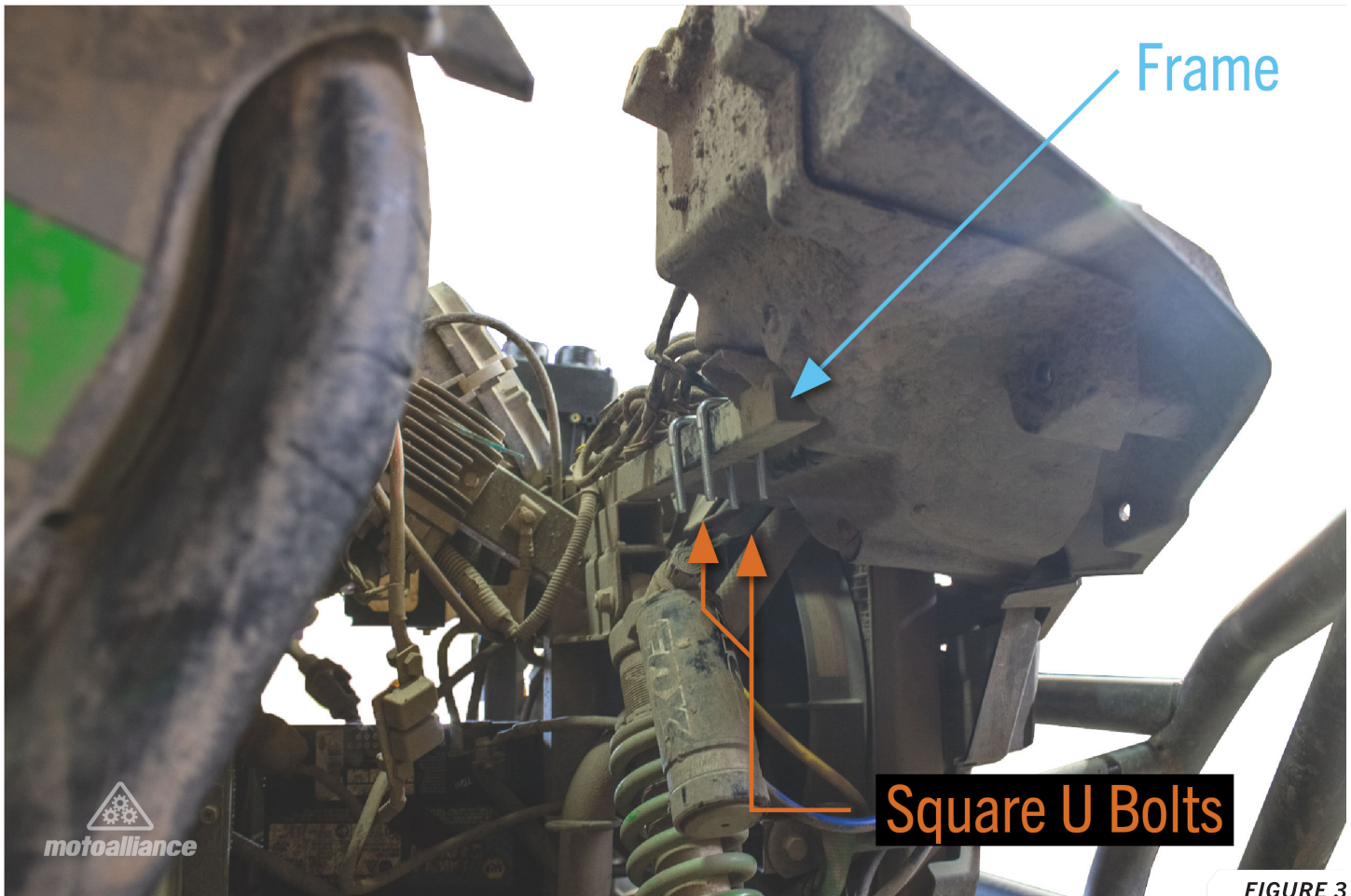


FIGURE 3

6. Install the heater bracket onto the U-bolts and tighten down with provided nuts as shown in *FIGURE 4*.

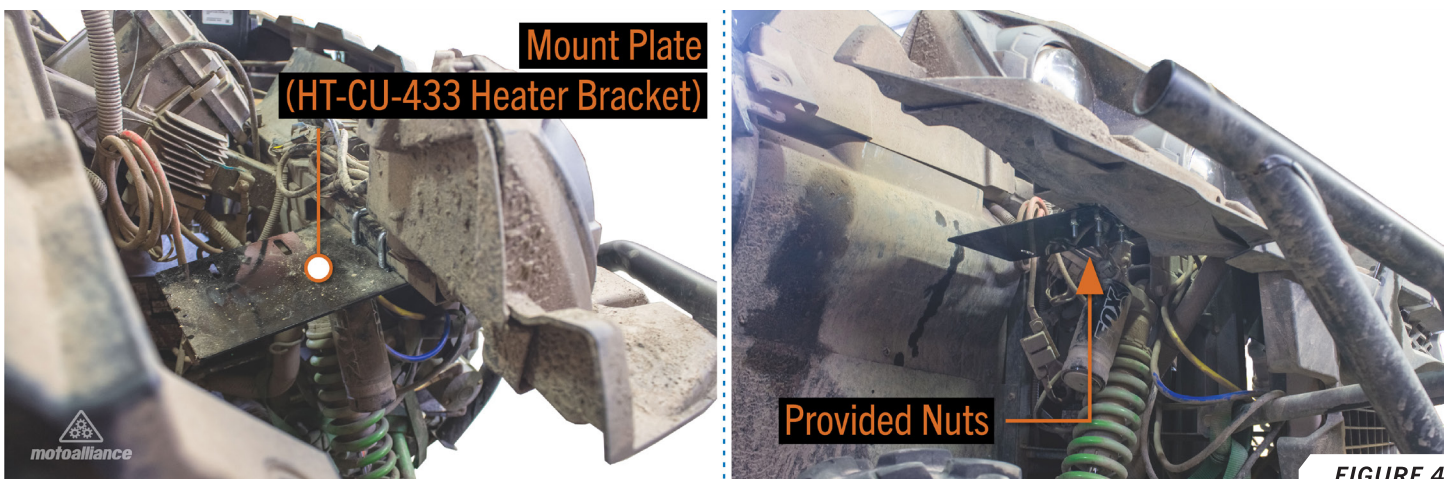
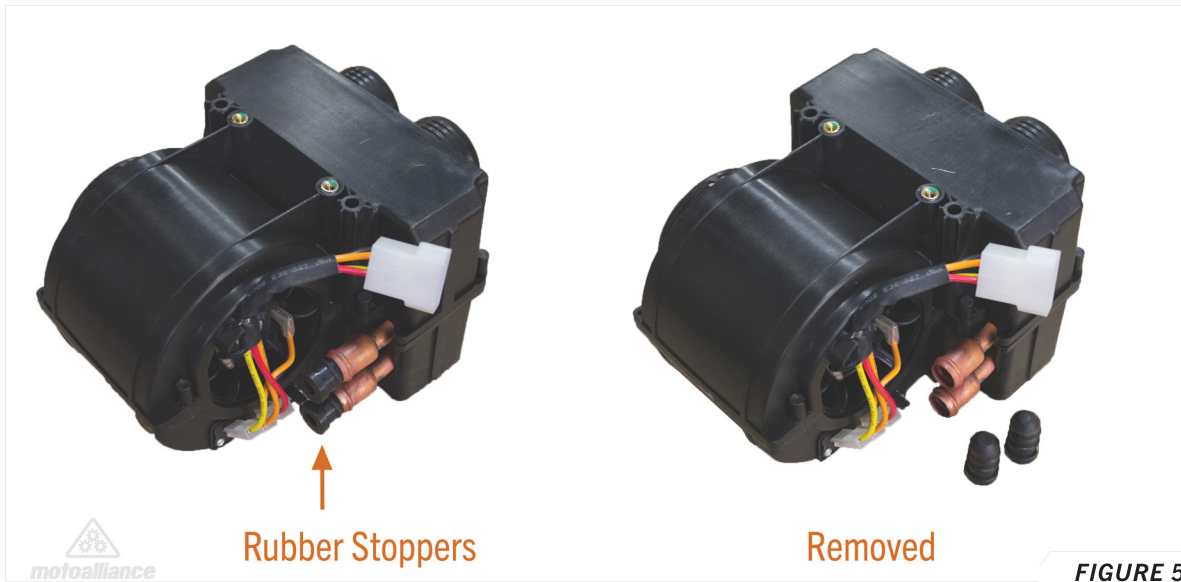
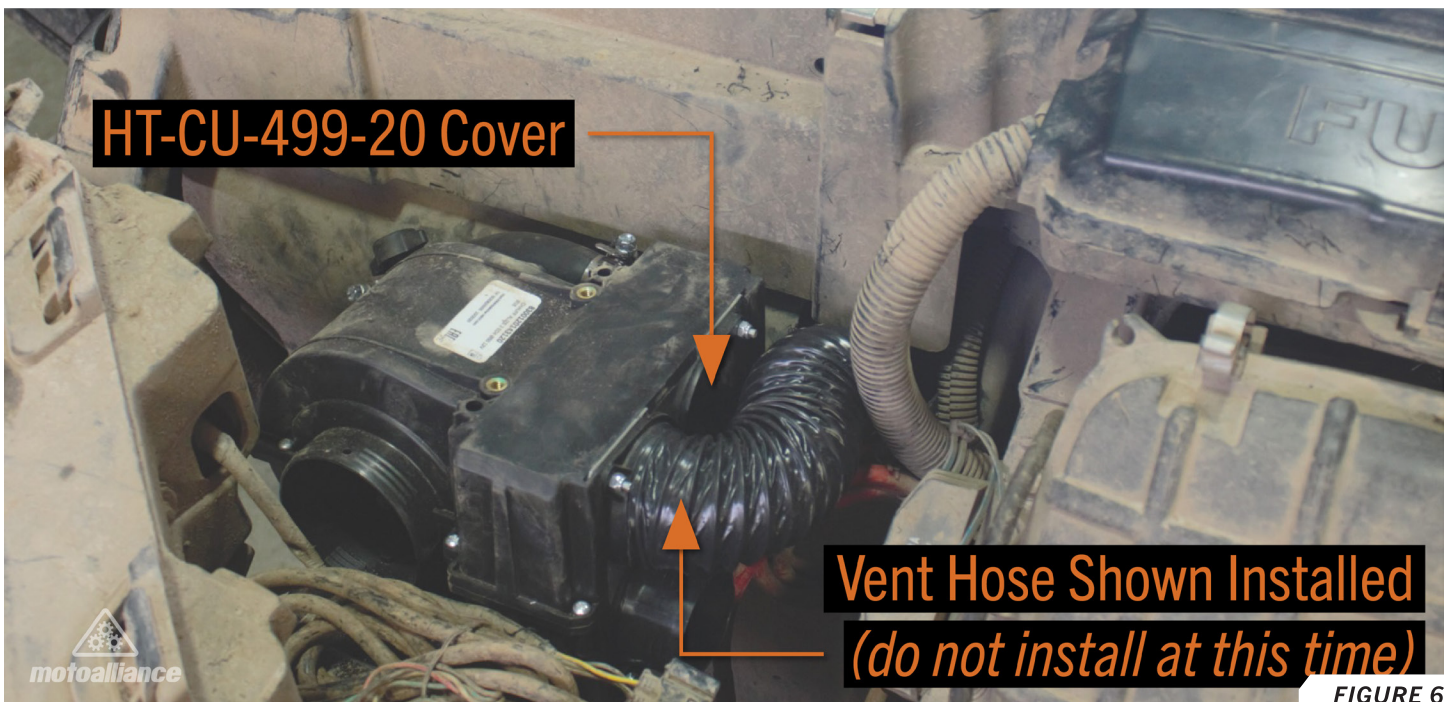


FIGURE 4

7. Remove the 2 rubber stoppers from the FIRESTORM Cab Heater coolant inlet and coolant outlet. **FIGURE 5**



8. Remove the two vent hose couplings from the cab heater and install the HT-CU-499-20 cover as shown in **FIGURE 6**.



9. Install the cab heater unit onto the mount plate with the provided M6 bolts as shown in *FIGURE 7*.



SWITCH WIRING

10. Locate the 96" wiring harness and ensure the wires are correctly connected to the 5-pin black connector as shown in **FIGURE 8** and the 4-pin white connector as shown in **FIGURE 9**.

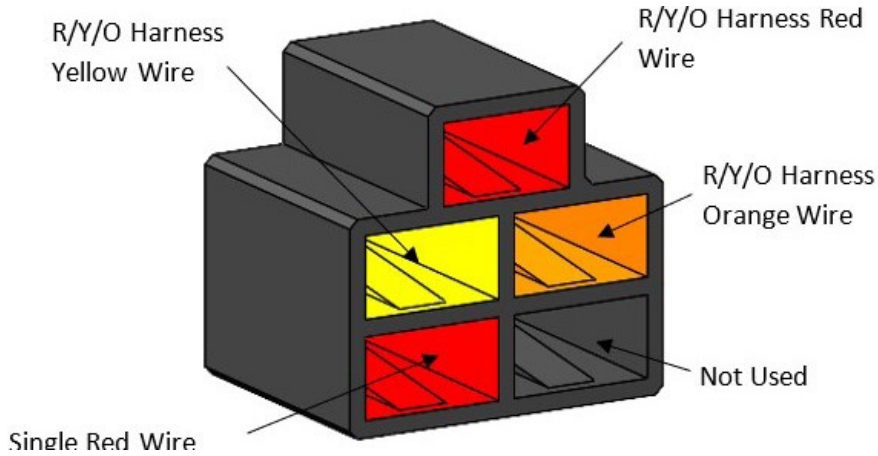


FIGURE 8

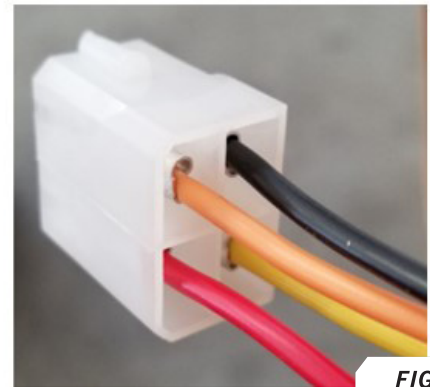
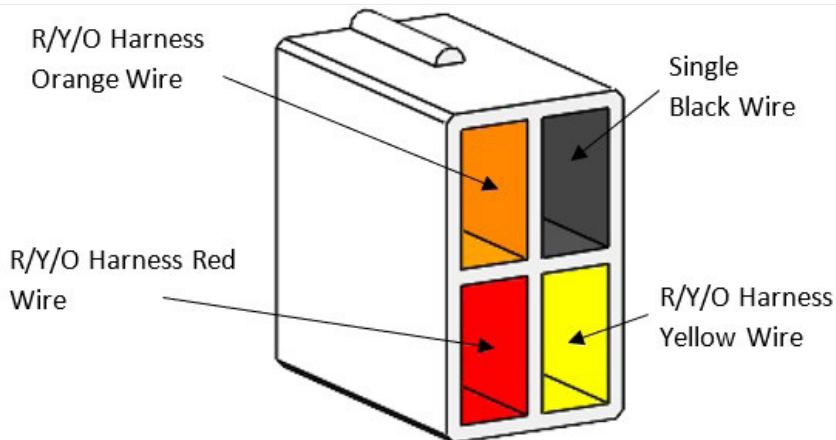


FIGURE 9

11. Line up the bezel for the 3-position switch in the indicated area on the dash so that it is easily adjustable from the driver's seat. **FIGURE 10**
12. 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 10**



FIGURE 10

13. Connect the 5-pin black connector to the 3-position switch included in the kit.
14. 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.
15. 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 11**.
16. Place the bezel over the switch so that the 0, 1, 2, 3 markings are visible.



FIGURE 11

17. Press the switch dial onto the switch until it is seated firmly.
18. Connect the white 4-pin connector to the white terminal housing on the heater unit.
19. 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.
20. Test the switch to ensure that it can control the fan speed in all three positions.
21. Using the 3" hole saw, drill out holes as shown in **FIGURES 12, 13**.

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



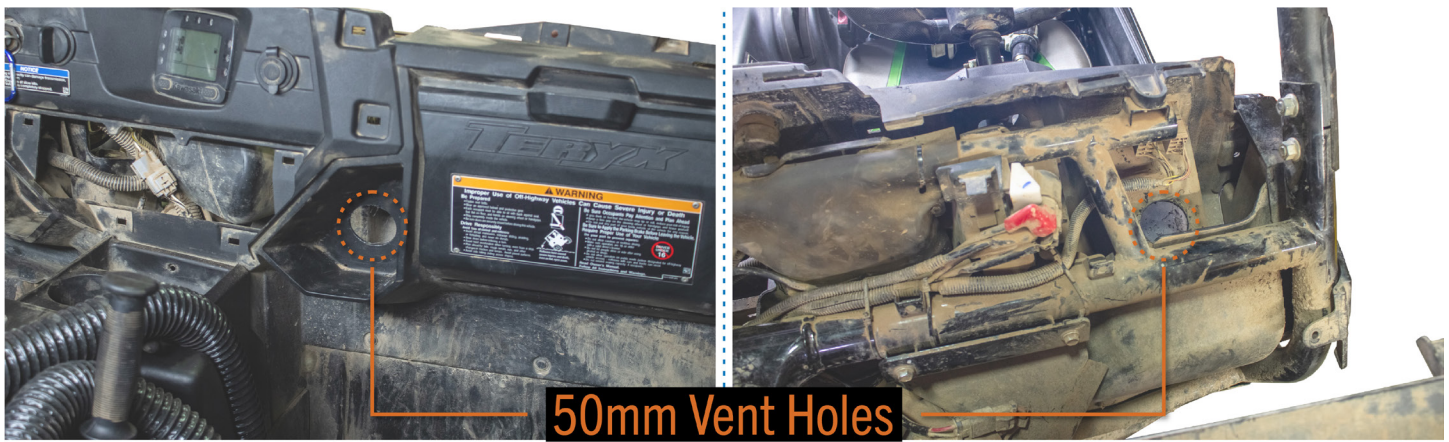
FIGURE 12



FIGURE 13

22. Using the 2 $\frac{1}{8}$ " hole saw, drill out holes for 50mm vents as shown in *FIGURE 14*.

23. Install defrost and personal vents into their holes. *FIGURE 14*



(Defrost Vents Shown Installed)



FIGURE 14

24. Two branching duct hose lines will be run from the heater to the vents: one for the passenger side, and one for the driver side. **FIGURE 15**

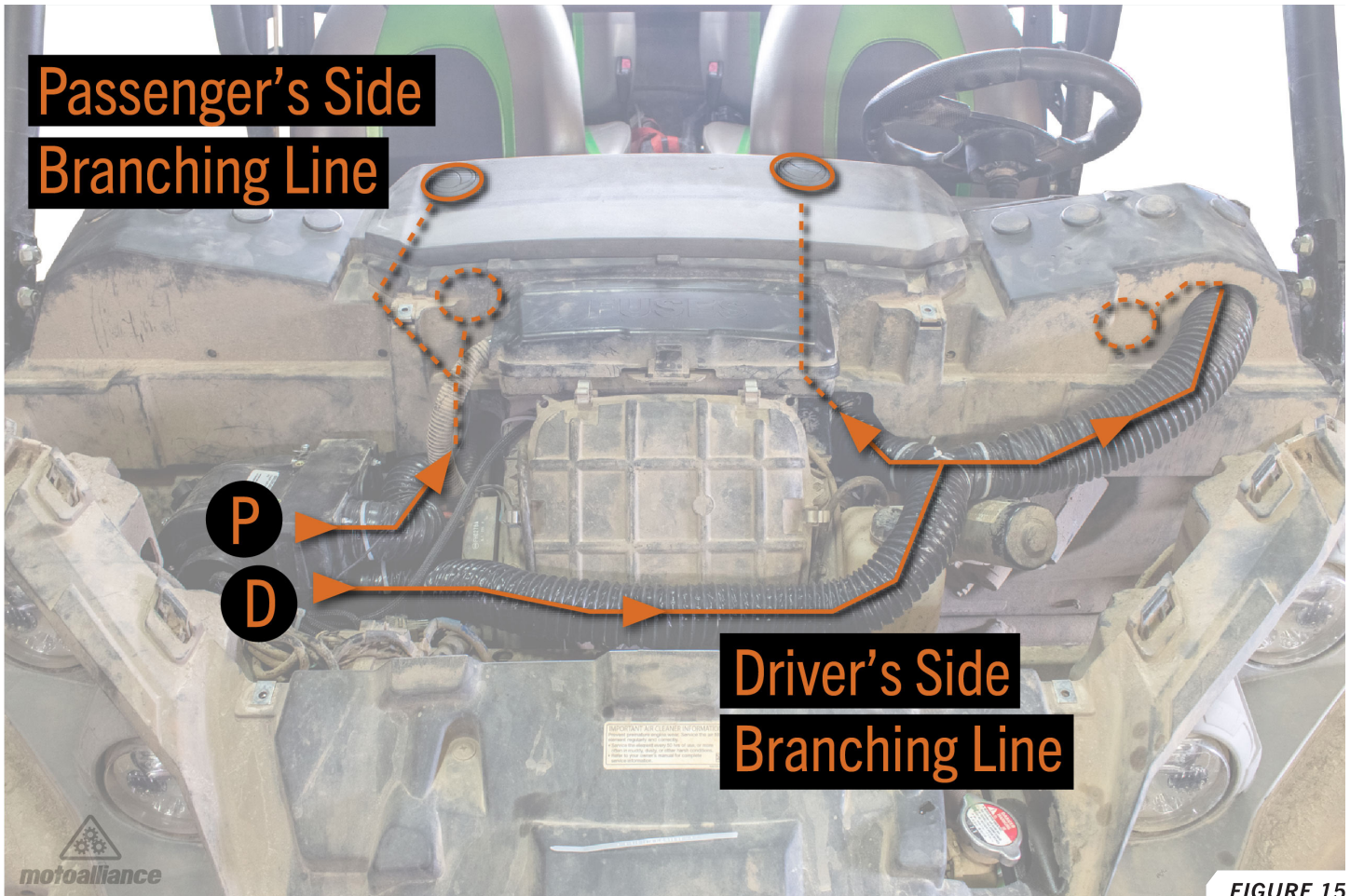


FIGURE 15

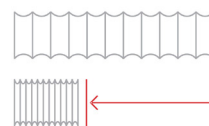
25. Cut the 40" section of 2" duct hose into the following lengths and discard any excess:

Passenger's Side Branching Line

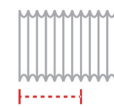
- 4" – passenger side branch
- 2" – passenger side personal vent
- 5" – passenger side defrost

Driver's Side Branching Line

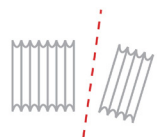
- 8" – driver side branch
- 5" – driver side personal vent
- 7" – driver side defrost



1. Compress

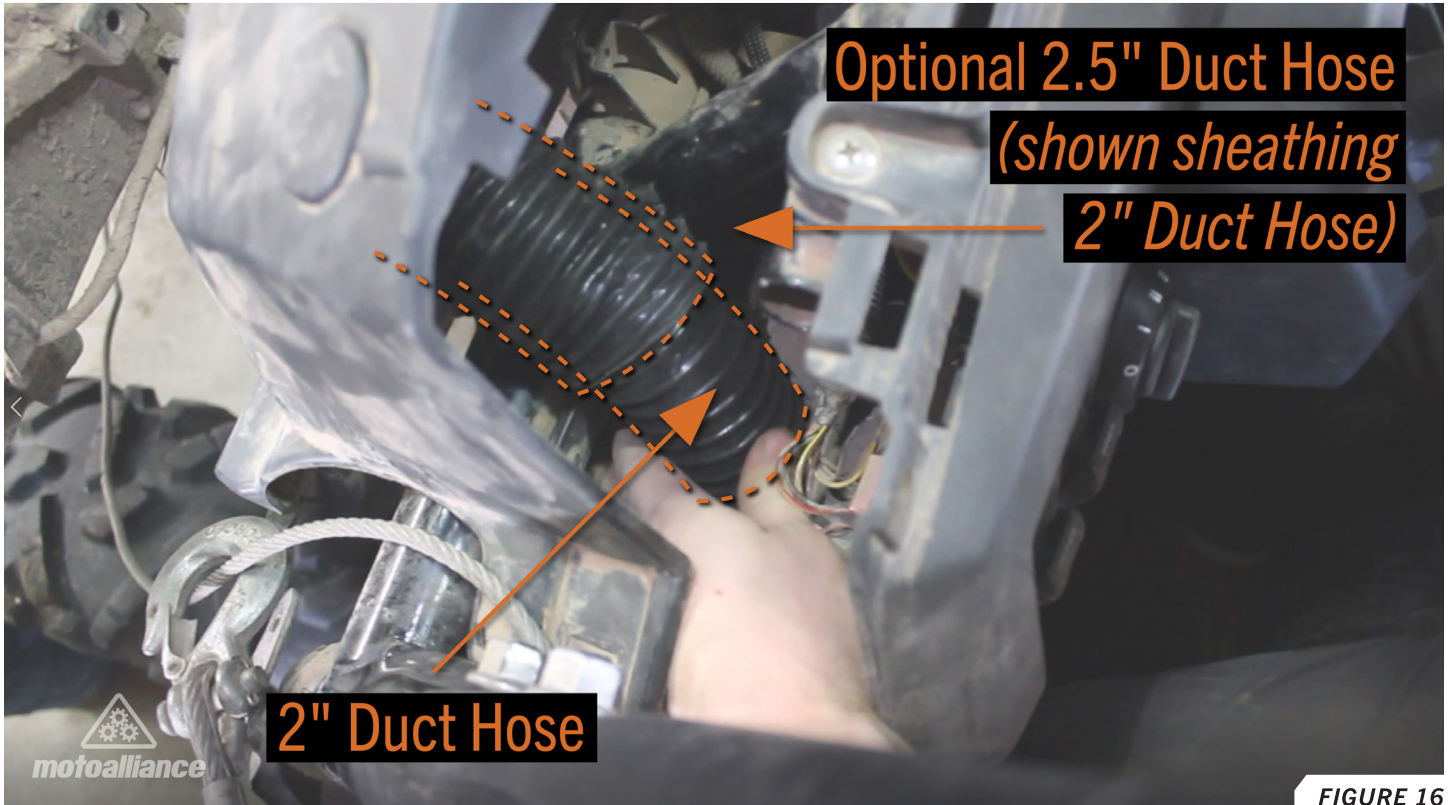


2. Measure

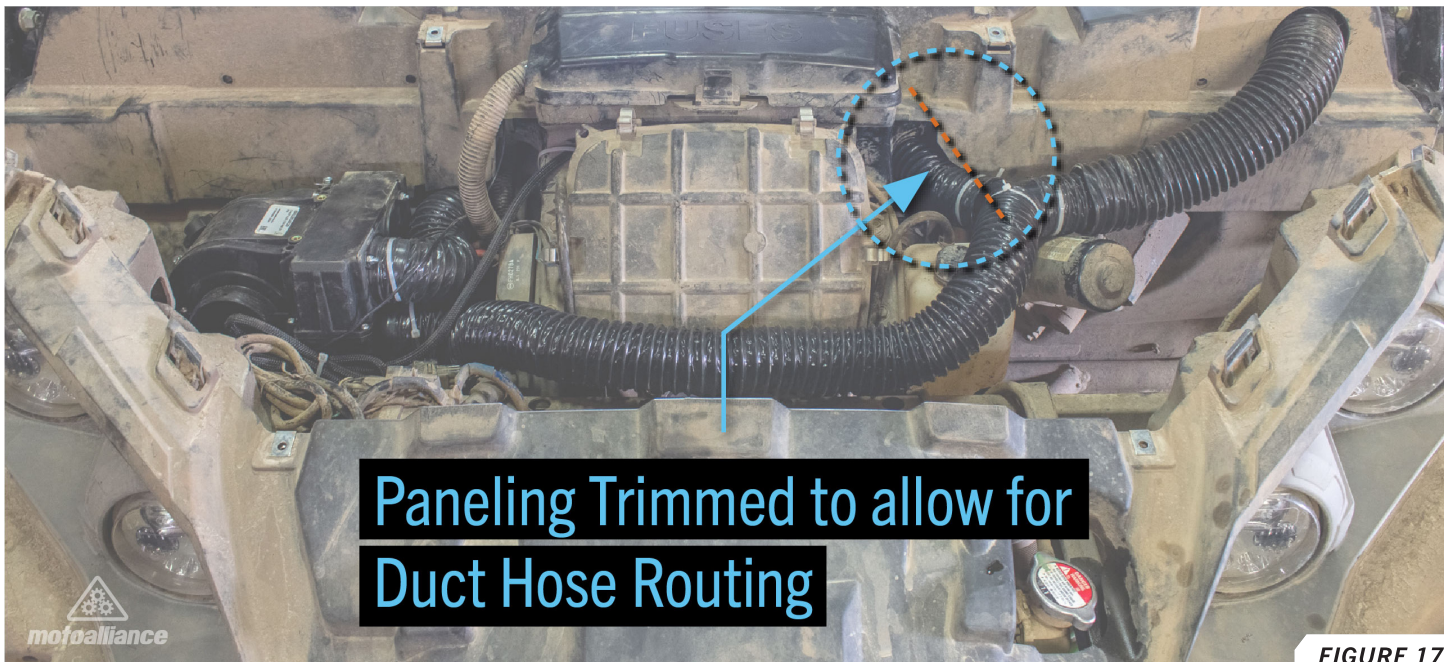


3. Cut

26. Included is an optional length of 2.5" diameter duct hose. This can be installed around the length going to the driver side vent for added protection against debris from the tire. **FIGURE 16**



27. Once all duct hose is cut to length, fit together with the provided 2" plastic Ys.
28. Some paneling may have to be trimmed similarly to **FIGURE 17**.



29. Secure all ducting to the fittings with provided zip ties.

30. Locate the passenger side coolant line as shown in **FIGURE 18**.

Subsequent steps will reference this figure.

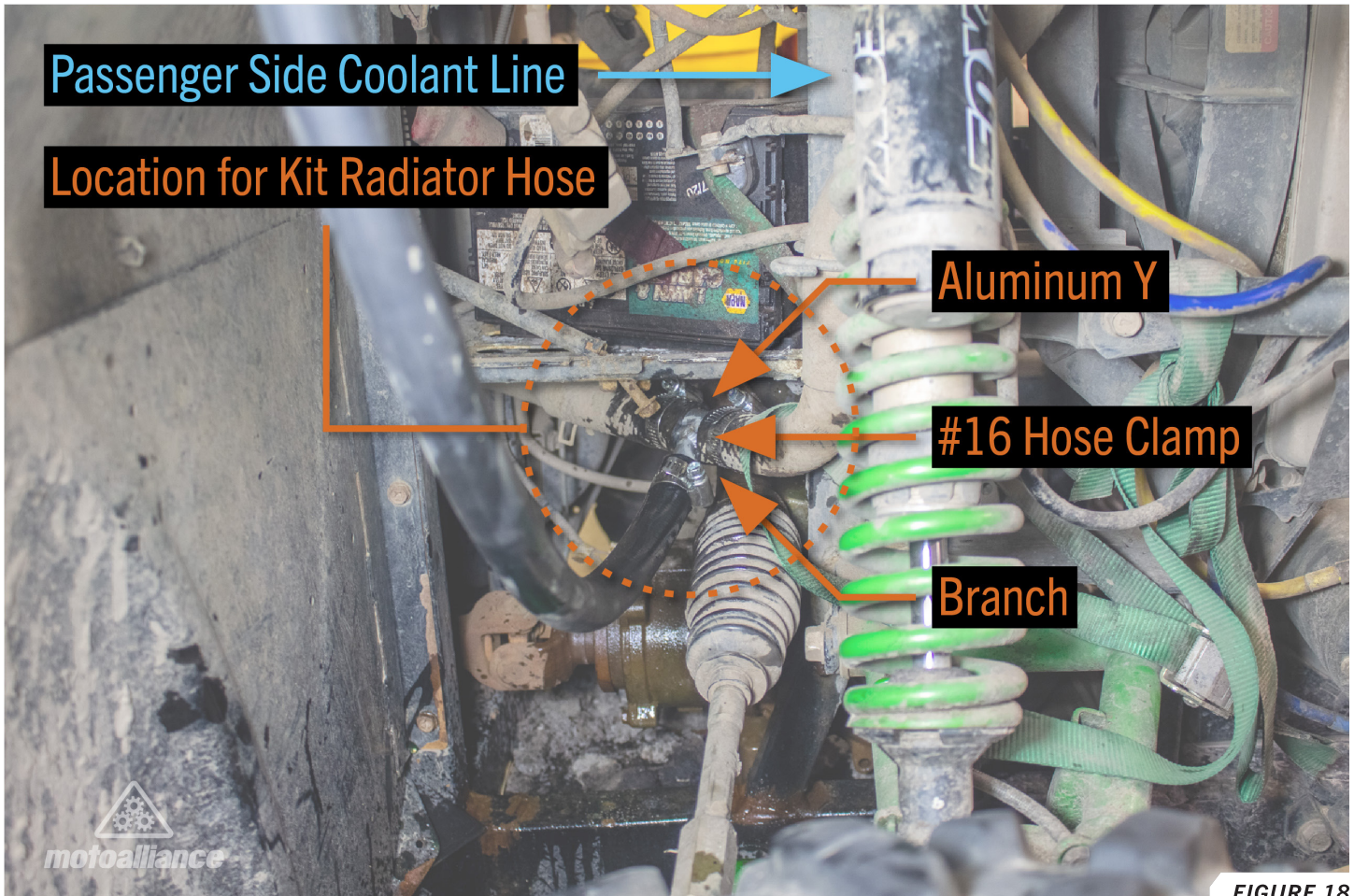


FIGURE 18

31. Locate the driver's side coolant line as shown in **FIGURE 19**.

◀ Subsequent steps will reference this figure.

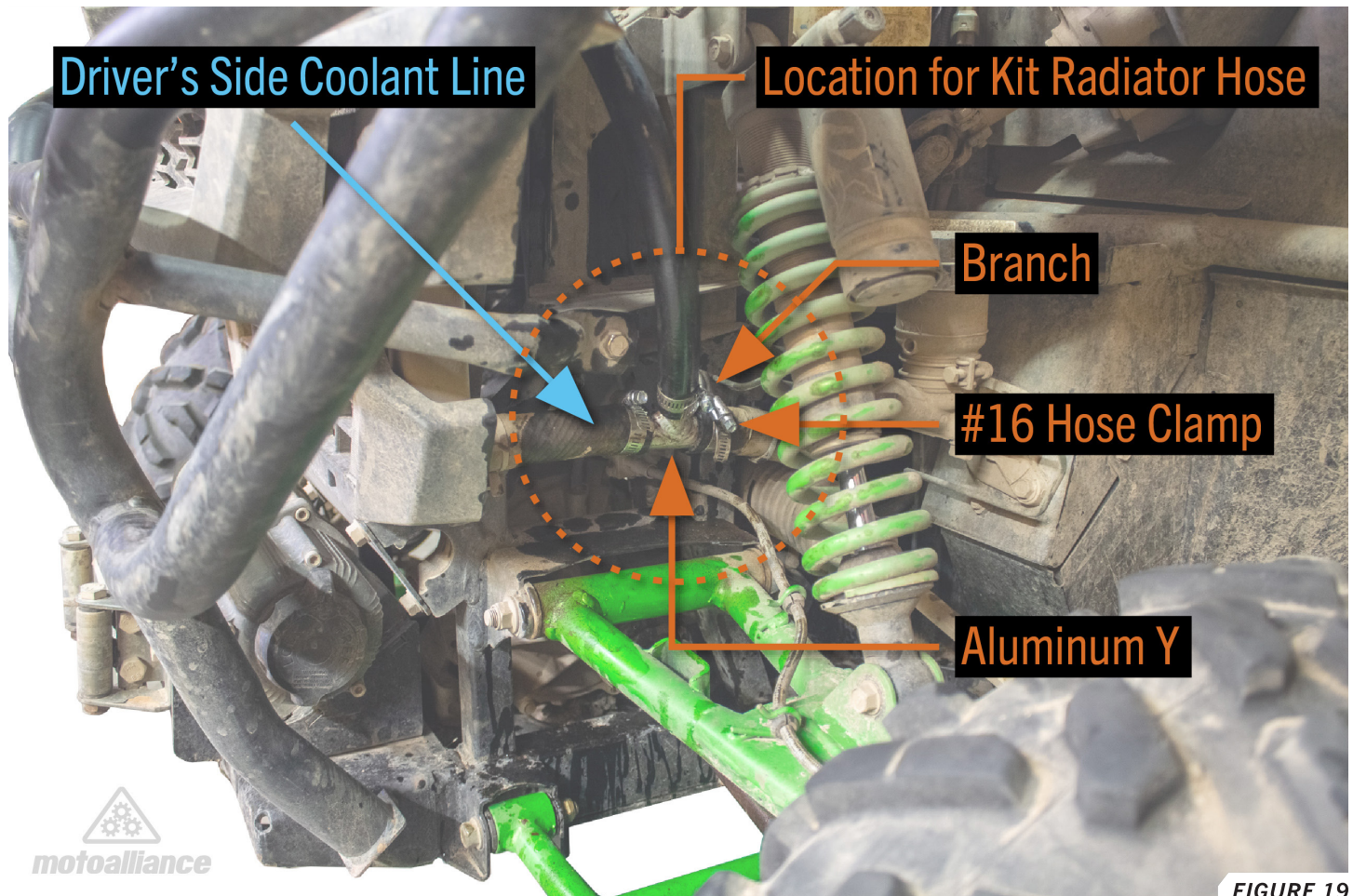


FIGURE 19

32. Cut the provided radiator hose in half. Connect one half of the radiator hose to the coolant inlet using a #10 hose clamp. Connect the other half of the radiator hose to the coolant outlet using a #10 hose clamp. **FIGURE 20**

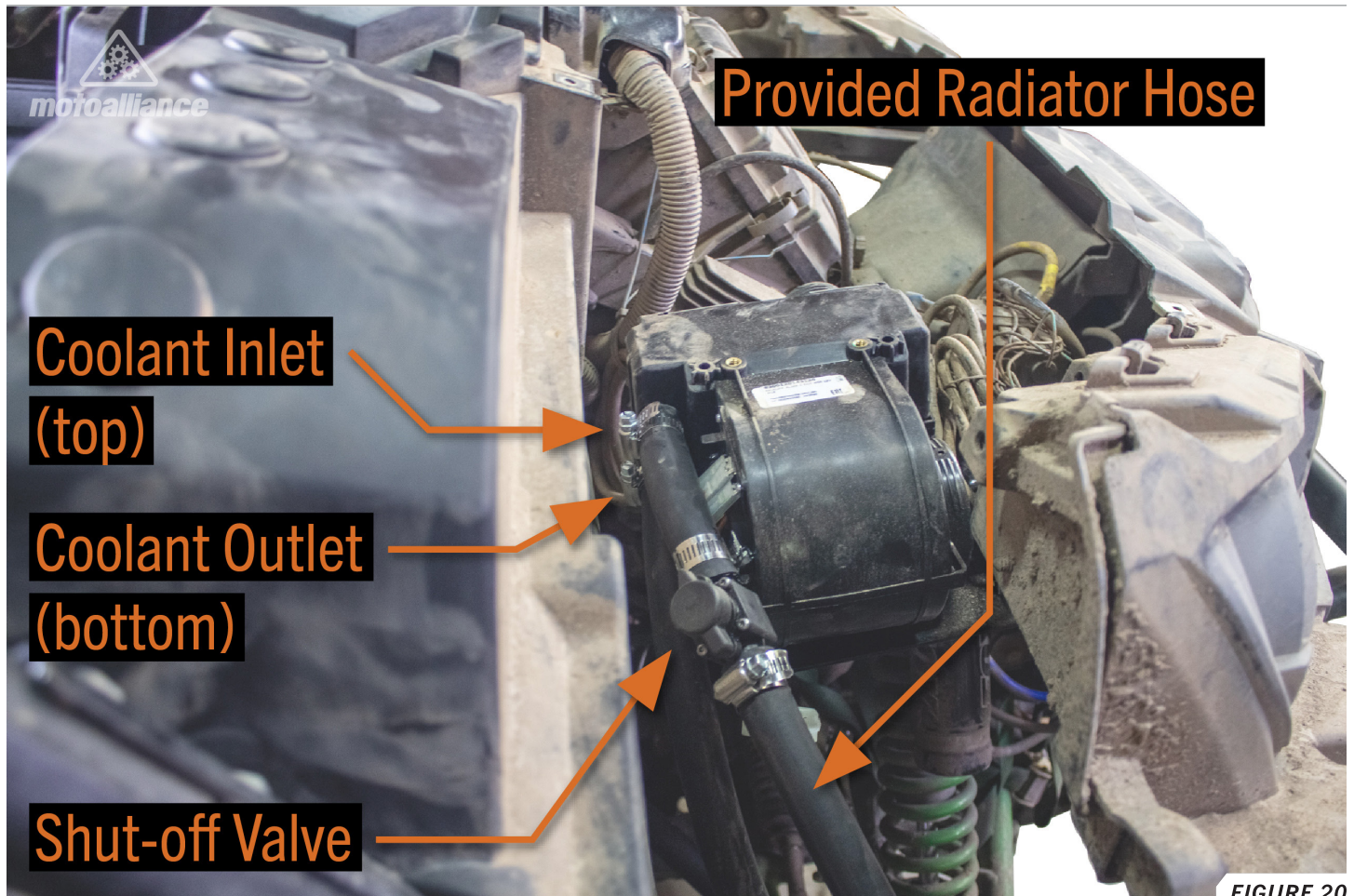
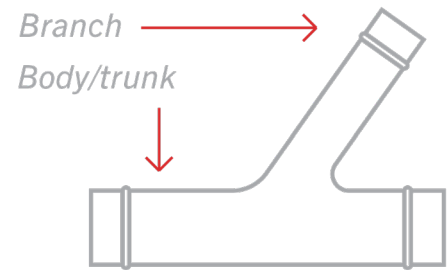


FIGURE 20

33. Route one length of hose to the location marked in **FIGURE 18**.
34. Route the other length of hose through the machine to the location marked in **FIGURE 19**. Be sure to avoid any parts that could pinch or abrade the hose.
35. Where convenient, cut the recently routed coolant inlet line and insert the shut off valve, securing it on both sides with a #10 hose clamp. **FIGURE 20**
36. Locate one aluminum Y, two #16 hose clamps, and one #10 hose clamp.

37. Secure the branch of the aluminum Y to the $\frac{5}{8}$ " radiator hose on the driver's side of the vehicle using the #10 hose clamp.
38. Verify that the aluminum Y will fit as shown in the passenger wheel-well, then cut the radiator hose. If you have hose pliers, use them to clamp the radiator hose to prevent coolant loss. If hose pliers are not available, drain the coolant into a bucket.



39. Slide one of the #16 hose clamps onto each side of the vehicle radiator hose, connect the aluminum Y, and secure with the #16 hose clamps. The branch should be pointing down. **FIGURE 18**
40. Locate the other aluminum Y, two #16 hose clamps, and one #10 hose clamp.
41. Secure the branch of the aluminum Y to the $\frac{5}{8}$ " radiator hose on the passenger side of the vehicle using the #10 hose clamp.
42. Verify that the aluminum Y will fit as shown in the front left wheel-well, then cut the radiator hose. If you have hose pliers, use them to clamp the radiator hose to prevent coolant loss. If hose pliers are not available, drain the coolant into a bucket.
43. Slide one of the #16 hose clamps onto each side of the coolant hose, connect the aluminum Y, and secure with the #16 hose clamps. The branch should point downward. **FIGURE 19**

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.

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

Look at owner's manual for manufacturer-approved coolant

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

FINISHING

51. Reinstall the upper dash assembly.
52. Reinstall the side panels.
53. Reinstall the hood.
54. Reinstall the windshield, if applicable.

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
2.5" Compressed Duct Hose	HT_2.5inch_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

Item Description	SKU
1" Aluminum Y	HT_AluminumY_1
Shut-Off Valve	HT_Plastic_Shut-off_Valve
Hole Saw Pilot Bit	HT_PilotBit
2 1/8" Hole Saw	HT_2.125_SAW
3" Hole Saw	HT_3_SAW
2" Plastic Y	HT_2Y

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

