

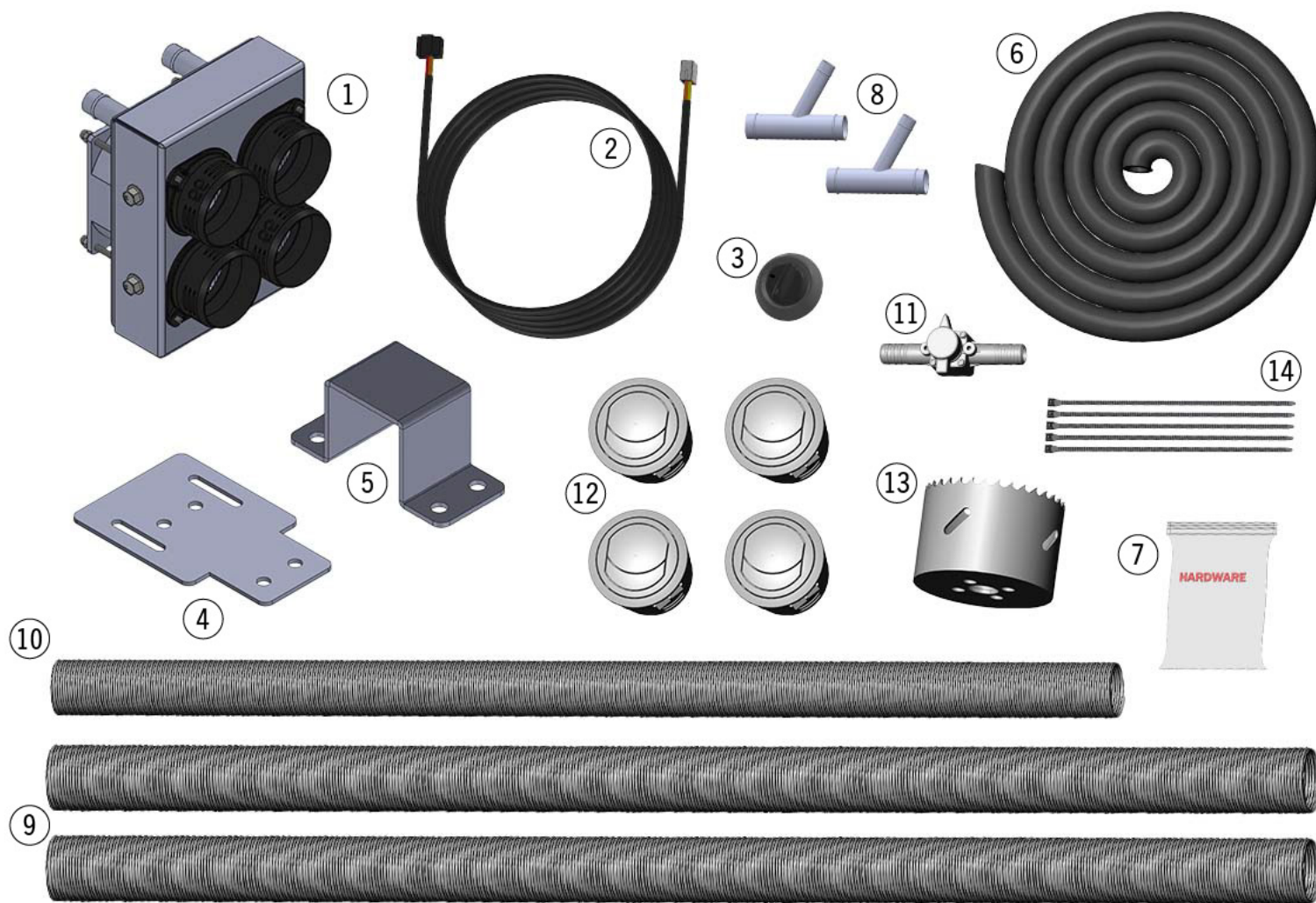


FIRESTORM
C A B H E A T E R S

**Yamaha Wolverine R Spec,
X2, and X4 Cab Heater
HT_CU_429**

INSTALLATION INSTRUCTIONS

PARTS LIST



Part#	Qty	Item Description
1	1	FIRESTORM Gen II Heater Core
2	1	36" Wiring Harness
		Red/Yellow/Orange Harness
		Red Wire
		Black Wire
		5-Pin Black Connector
		4-Pin White Connector
3	1	3-Position Switch
4	1	HT_CU_429-1
5	1	HT_CU_429-2

Part#	Qty	Item Description
6	1	10' 5/8" Radiator Hose
7		Hardware Pack
	4	5/16-18x3/4"
	4	5/16-18 Nut
	4	5/16 Lock Washer
	4	5/16 Washers
	2	M6-1/20 Hex Bolt
	2	M6 Washer
	2	M6 Lock Washer
	2	Displacement Crimps

Part#	Qty	Item Description
	6	#10 Hose Clamp
	4	#16 Hose Clamp
8	2	1" Aluminum Y
9	2	15" Compressed Duct Hose
10	1	10" Compressed Duct Hose
11	1	Shutoff Valve
12	4	50mm Vents
13	1	2-1/8" Hole Saw
14	1	Zip Ties - 1 Bag



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. FIGURE 1



FIGURE 1

2. Remove the back section of the dash. FIGURE 2

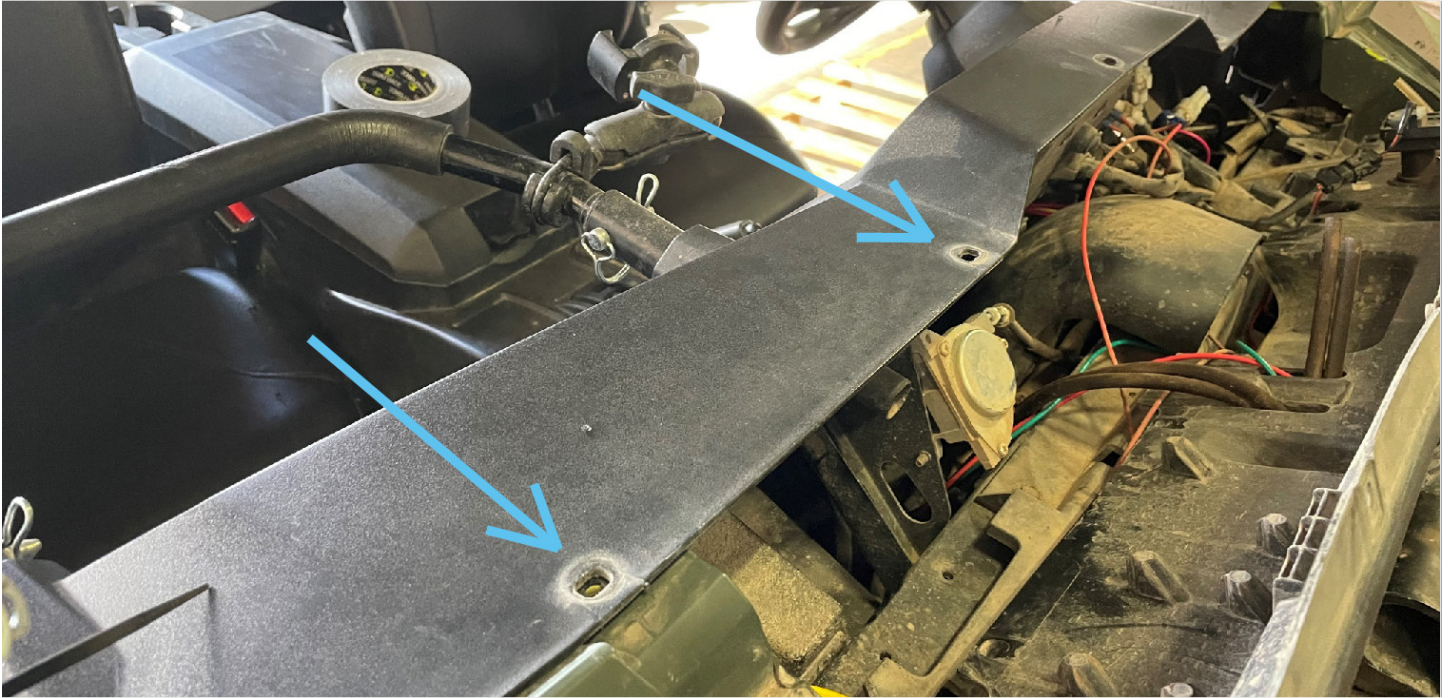


FIGURE 2

3. Cut one of the 15" duct hose sections into 7" and 5" sections.
4. Locate a spot on the driver side upper dash and mark a spot for the defrost vent.
5. Use the 2-1/8" hole saw to drill a hole in the dash. Ensure there is nothing behind where the vent is going. FIGURES 3 & 4



FIGURE 3



FIGURE 4

HEATER MOUNTING & VENT INSTALLATION

6. Debur the hole and insert the 50mm vent. Connect the 5" duct hose to the vent and secure with zip ties.
7. Locate a spot on the passenger side upper dash and mark a spot for the defrost vent. FIGURE 5



FIGURE 5

8. Use the 2-1/8" hole saw to drill a hole in the dash.
9. Debur the hole and insert the 50mm vent. Connect the 15" duct hose to the vent and secure with zip ties.
10. On the driver side, locate a flat section on the lower dash near the center console. FIGURE 6



FIGURE 6

11. Insert the 50mm vent and connect the 7" duct hose to the vent and secure with zip ties.
12. On the passenger side, locate a flat section on the lower dash near the center console. **FIGURE 7**



FIGURE 7

13. Insert the 50mm vent and connect the 10" duct hose to the vent.
14. Route all duct hose to the driver side wheel well. **FIGURE 8**



FIGURE 8

SWITCH WIRING

15. Locate the 36" Wiring Harness and ensure the wires are correctly connected to the 5-Pin Black Connector as shown in **FIGURE 11** and the 4-Pin White Connector as shown in **FIGURE 9**.

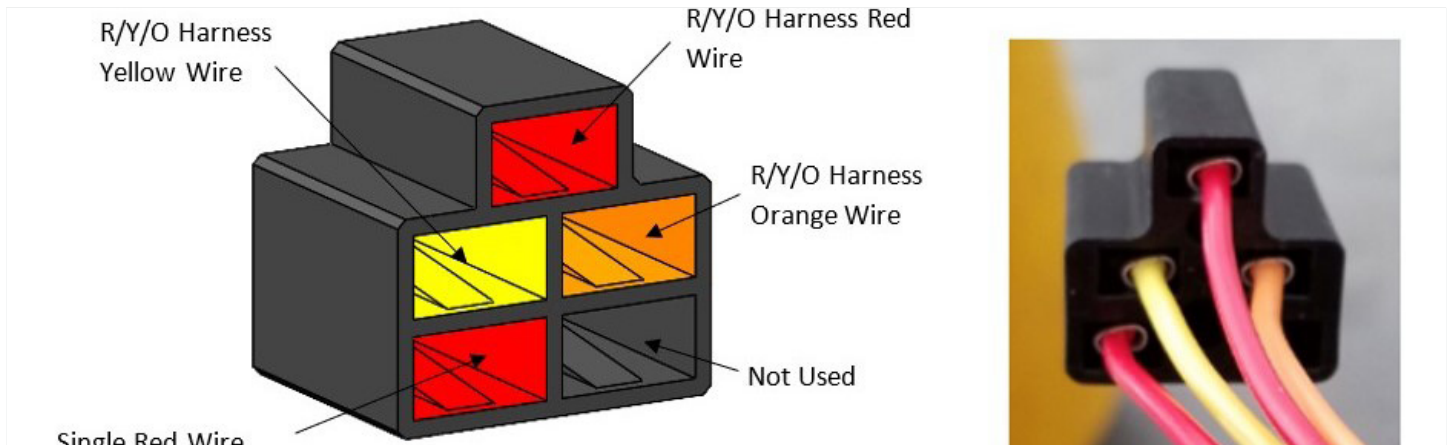


FIGURE 9

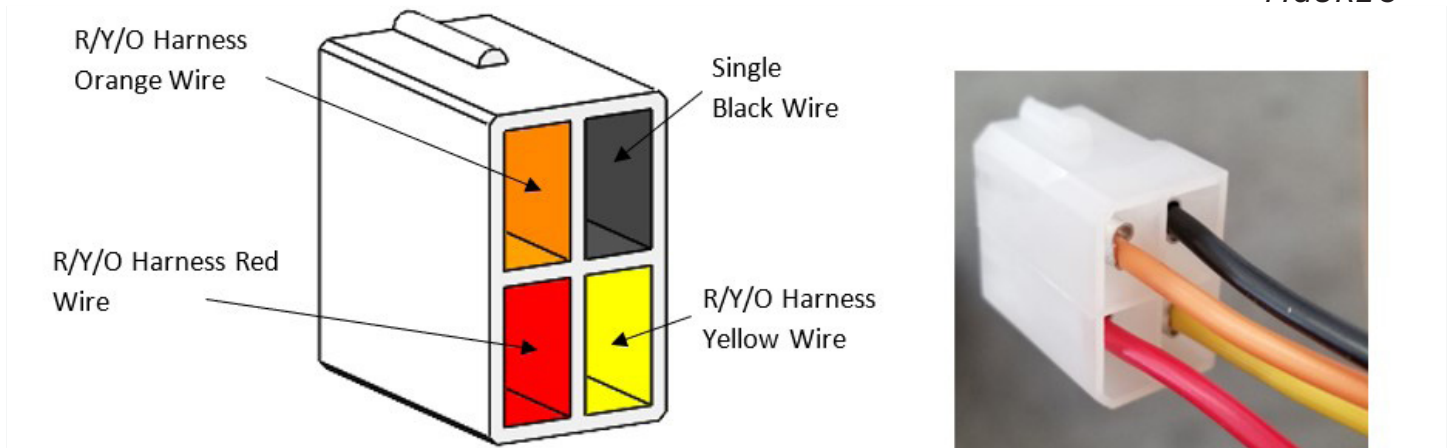


FIGURE 10

16. Connect the 5-Pin Black Connector to the 3-Position Switch included in the kit.
17. Insert the switch from the back of the dash panel, where 7/16" hole was drilled, and secure using the low-profile hex nut included in the switch bag. Disregard the flex lock washer.
18. 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**.
19. Place the bezel over the switch so that the 0, 1, 2, 3 markings are visible.



FIGURE 11

20. Place HT_CU_429-2 over the rail in the driver side wheel well.
21. Connect HT_CU_429-1 to HT_CU_429-2 using 3/8" hardware. FIGURE 12

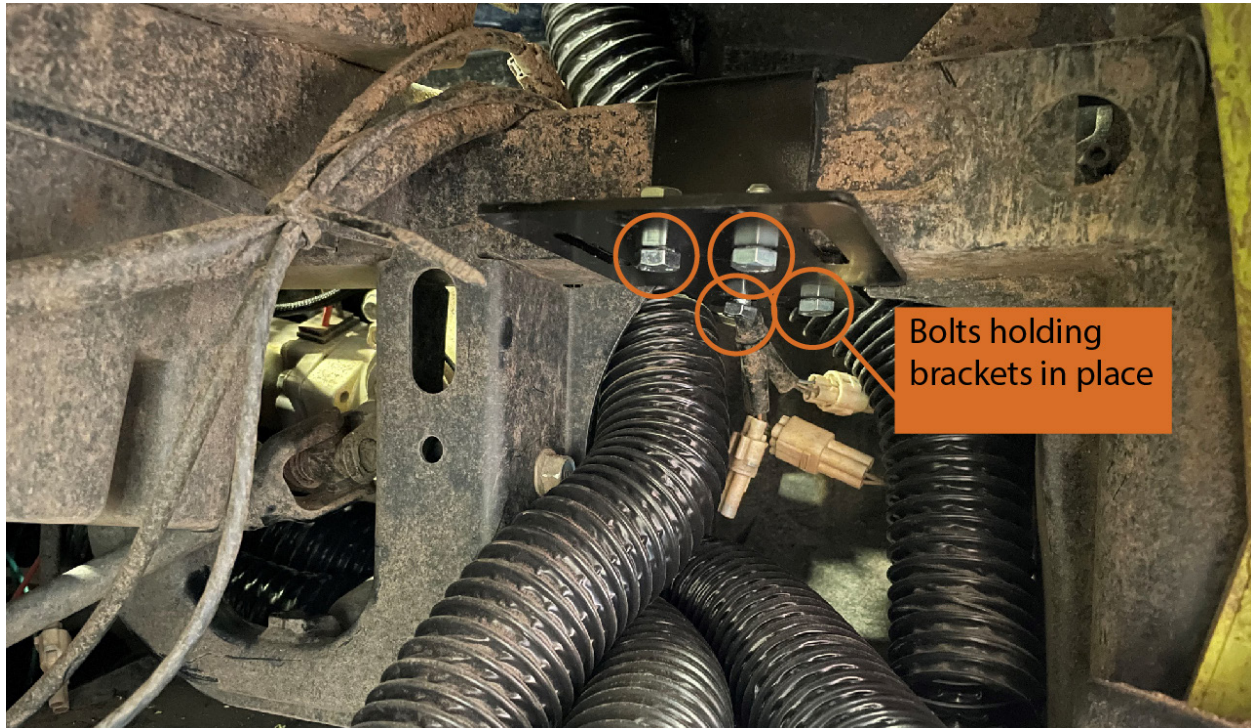


FIGURE 12

22. Install heater core to HT_CU_429-1 using 6mm hardware. FIGURE 13



FIGURE 13

COOLANT HOSE ROUTING

Before making cuts into the vehicle's coolant system, ensure the vehicle is completely cooled down.

23. Locate coolant overflow reservoir in the passenger wheel well.
24. Remove coolant overflow reservoir from the frame of the machine.
25. Locate the upper radiator hose. FIGURE 14

Clamp the hose to eliminate coolant loss.

26. Cut the radiator hose and insert the 1" Aluminum Y, facing up, and secure using the hose clamps.
27. Connect the 5/8" radiator hose to the top of the Aluminum Y and secure using the hose clamps.
28. Run the 5/8" radiator hose to the heater unit.
29. Cut off any excess and connect to the top of the heater. Secure the radiator hose to the heater using the hose clamps.
30. Locate the lower radiator hose in the driver side wheel well. FIGURE 15

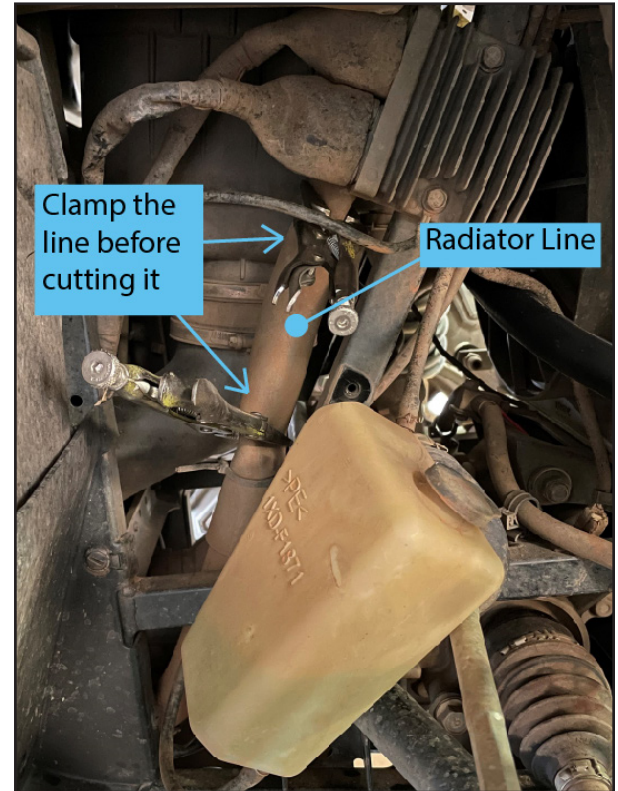


FIGURE 14

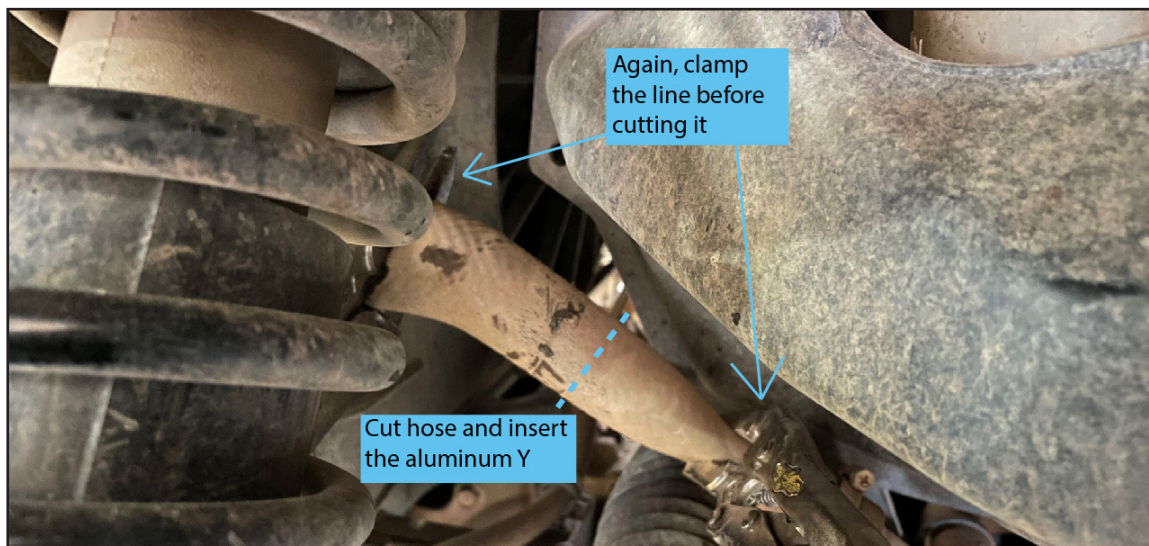


FIGURE 15

31. Cut the radiator hose and insert the 1" Aluminum Y, facing up, and secure using the hose clamp.
32. Run the 5/8" radiator hose to the heater unit.
33. Cut off any excess and connect the radiator hose to the top of the heater. Secure the connection using the hose clamp.

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.

34. Fill radiator with coolant until radiator is full.
35. Open the shutoff valve.
36. 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.
37. Turn off the machine and wait for it to cool down.
38. Open the radiator cap and add more coolant.
39. Repeat the steps in this section until consistent heat is coming out of the vents and machine temperature gauge stays under 200°F.
40. Check for any leaks and clean up any coolant that spilled out during this process.

Look at owner's manual for manufacturer-approved coolant

FINISHING

41. Reassemble all panels removed from the machine.
42. Verify that no leaks have occurred and that the radiator fluid level is per the manufacturer's specifications.