



INNOVATIVE
**HEAT & SOUND
CONTROL**
SOLUTIONS

INSTALLATION INSTRUCTIONS

PART #902481

AUXILIARY FAN KIT

2015-UP HONDA PIONEER 1000-3, 1000-5, & 1000-6

**INSTALLATION QUESTIONS? CONTACT DEI AT 800-264-9472
OR VIA EMAIL AT TECH@DESIGNENGINEERING.COM**

NOTE OF CAUTION: Wear eye and hand protection when installing all materials.

PARTS CHECKLIST

- 1 Fan Switch
- 1 Fan Switch Harness
- 1 Power Harness
- 1 Blower Motor Harness
- 1 Fan assembly
- 1 Fan bracket
- 1 Fan mounting hardware kit
- 1 Flex hose with couplers
- 2 hose clamps
- 1 exit duct plate
- 4 plastic rivets
- 4 cable ties

NOTES

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SURFACE PREP

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TOOLS

Flat blade screw driver, 8mm & 10mm socket and wrench, 1/4" drill bit and drill, 3" hole saw, knife and side cutters, "fishing" wire

1. Remove lower front seat following factory instructions. Set aside (Fig 1)
2. Remove the under seat Center plastic tray (Fig 2)



FIG 1



FIG 2

3. Raise the rear bed using the release lever
(FIG 3)



FIG 3

4. Remove the bolts holding the upper seat pad in place using a 10mm socket and ratchet.
(FIG 4)



FIG 4

5. Lift the upper seat pad out and set aside.
(FIG 5)



FIG 5

6. You will need to remove the plastic panel shown in (FIG 6) (MARKED IN RED). This is held in place with two different styles of plastic push pins. For the style with the larger head, lift up on the center pin, then remove the complete push pin. (Image FIG 7 & FIG 8). The other style push pin has a small center pin that you push in using a small punch or screw driver. (FIG 9)

NOTE: After plastic panel is removed, remove push pins from passenger side panel and remove that panel as well.

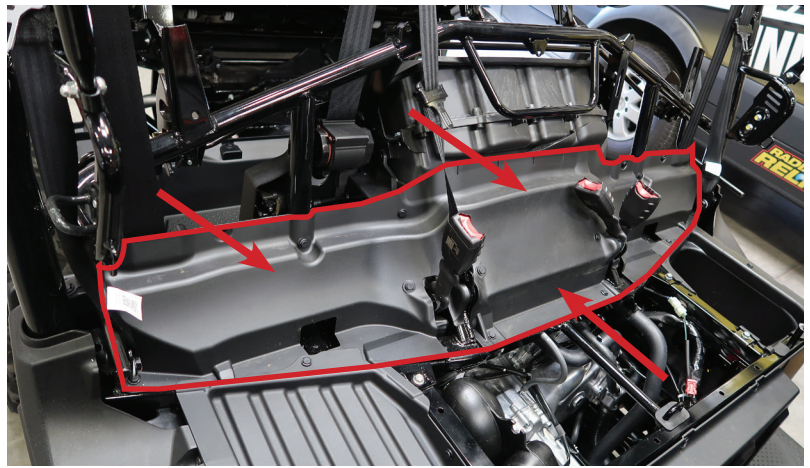


FIG 6



FIG 7



FIG 8



FIG 9



FIG 10

10. Remove the existing heat shield retaining bolt (FIG 11) and mount the fan bracket using the supplied M6x20 bolt and washer. Fig. 7. The bracket sandwiches between the frame and the existing heat shield.

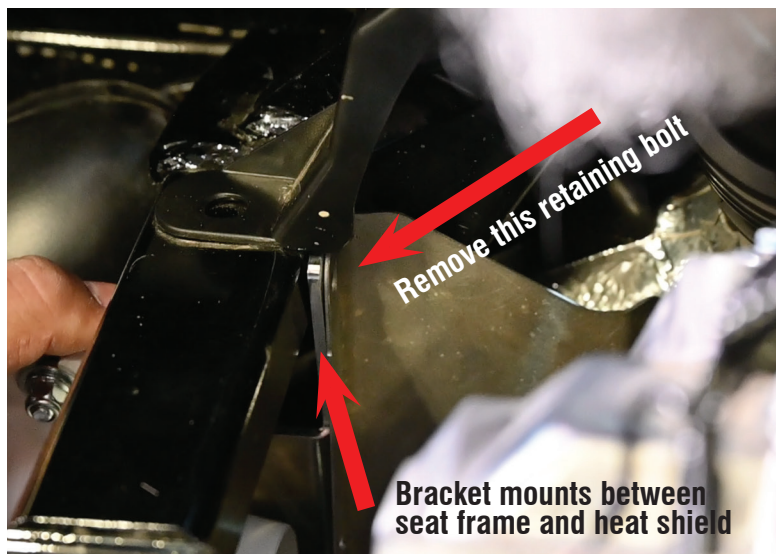


FIG 11

11. Mark the drill location on the stock heat shield using the lower mounting hole on the bracket. FIG 12

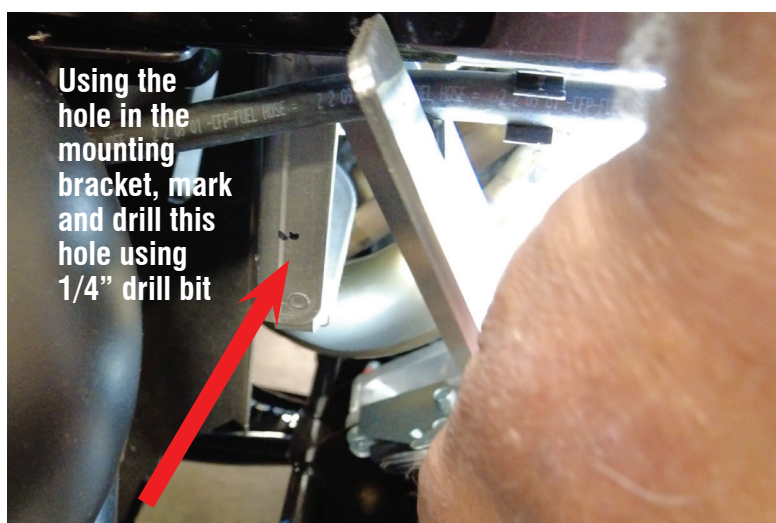


FIG 12

12. Rotate the bracket away and drill the second mounting hole using a 1/4" drill bit.

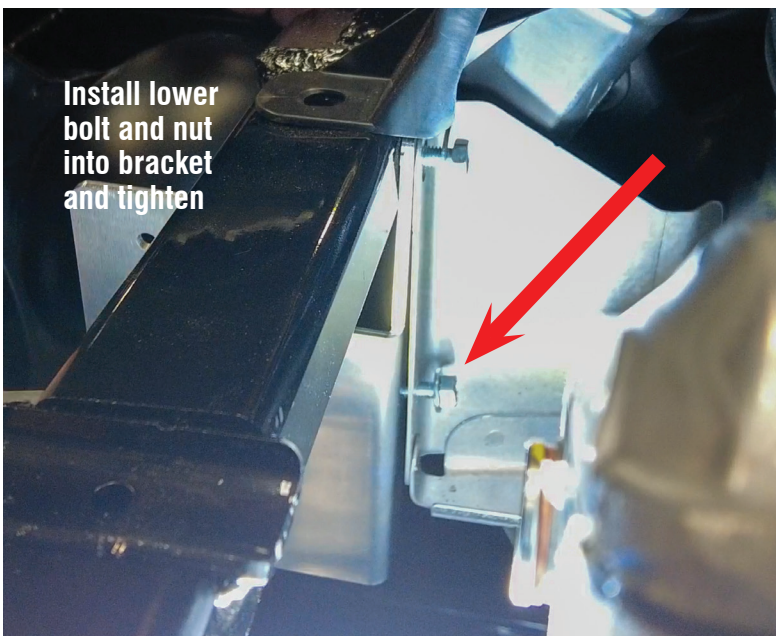


FIG 13

13. Insert the supplied M6x20 bolt, washer and lock nut into the lower hole and tighten. FIG 13

14. Mount the fan unit to the bracket using the supplied M6x20 bolts and locknuts. fig 14

Note: Fan Orientation, be sure to mount the housing with the fan blades facing the engine. The flow arrow stamped on the housing should be facing away from the engine.

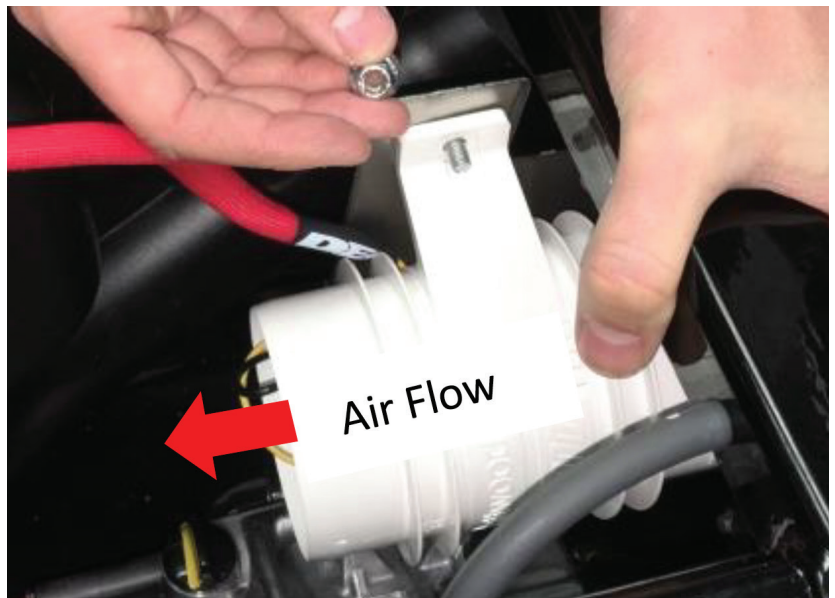


FIG 14

15. Line up the duct plate on the plastic floor pan, beside the drive shaft and mark a drill hole in the center for the 3" duct work. FIG 15

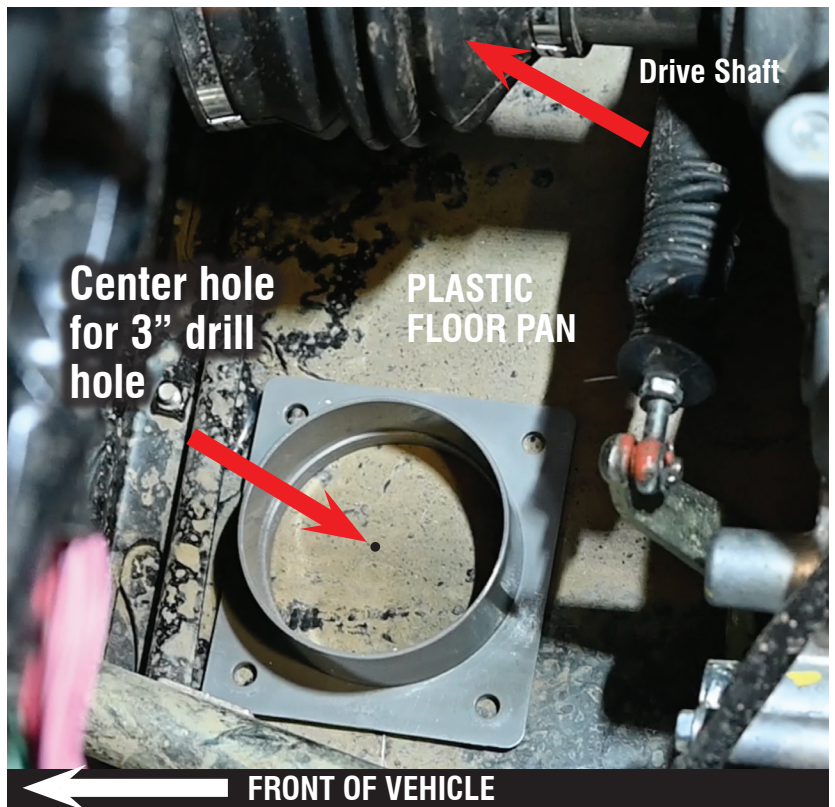


FIG 15

16. Remove the flange after you have marked the holes.

17. Drill the 3" hole in the floor using the center mark made in the previous step. FIG 16



FIG 16

18. Insert the duct flange upside down in the 3" hole, and mark the 4 corner 1/4" drill rivet holes. Drill the 4 corner rivet holes using a 1/4" drill bit. FIG 17



FIG 17

19. Using the provided hose coupler and hose clamp, pre-assemble the hose coupler on the floor flange and secure it with a hose clamp. FIG 18

NOTE: DO NOT OVER TIGHTEN CLAMP



FIG 18

20. Put the exit duct over the hole with the flange facing up and insert the plastic rivets from the bottom up and secure. FIG 19



FIG 19

21. Using the provided hose coupler and hose clamp, pre-assemble the hose coupler on the fan flange and secure it with a hose clamp. FIG 20

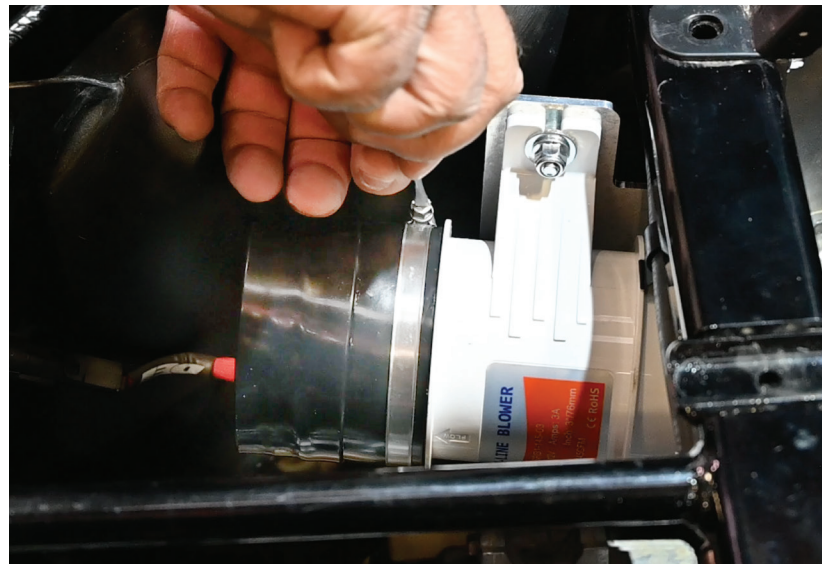


FIG 20

POWERING FAN AND INSTALLING FAN SWITCH

22. Remove one of the switch knock out plates on the dash, this is where the new fan switch will be located. FIG 21



FIG 21

23. Connect the battery harness to the fan switch harness. FIG 22. This will be the white connector. (Male connector from switch harness plugs into the female connector on the battery harness)



FIG 22

24. Connect the fan wiring harness (Female connector from switch harness plugs into the male connector going to the fan harness) FIG 23



FIG 23

25. Feed the harness through the switch hole in the dash. FIG 24

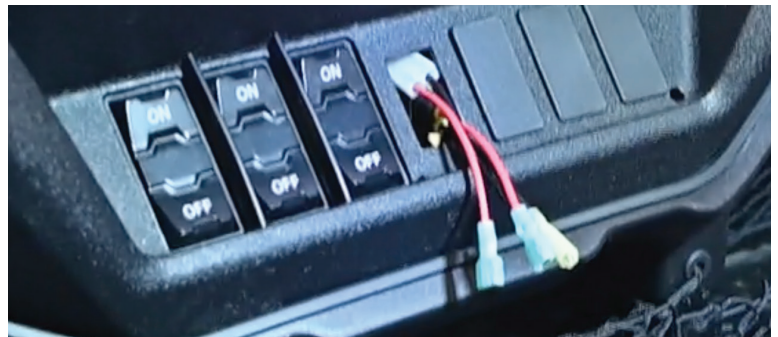


FIG 24

26. Connect the harness to the switch. The black ground wire connector goes to terminal 7, the red power wire from the battery goes to terminal 2 and the red feed wire going to the blower motor is terminal 3. FIG 25

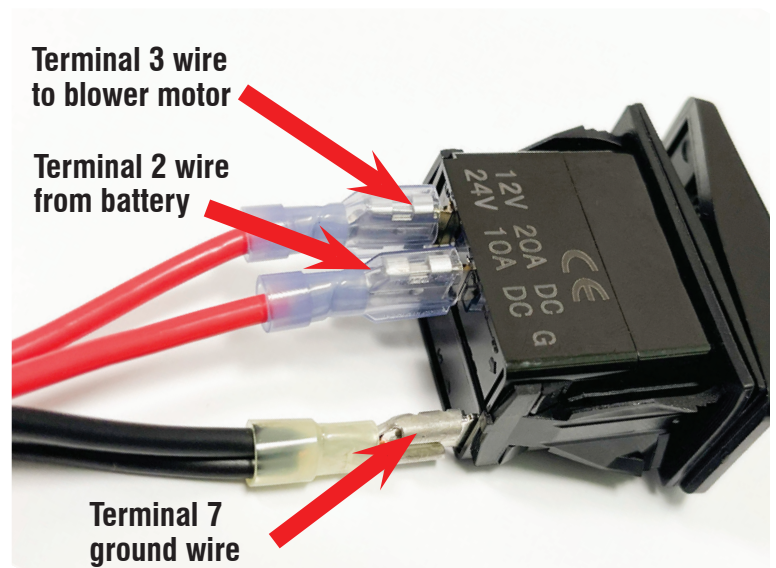


FIG 25

27. Remove the access panel under the dash, using the 8mm socket. This will give you access to running the fan harness. FIG 26

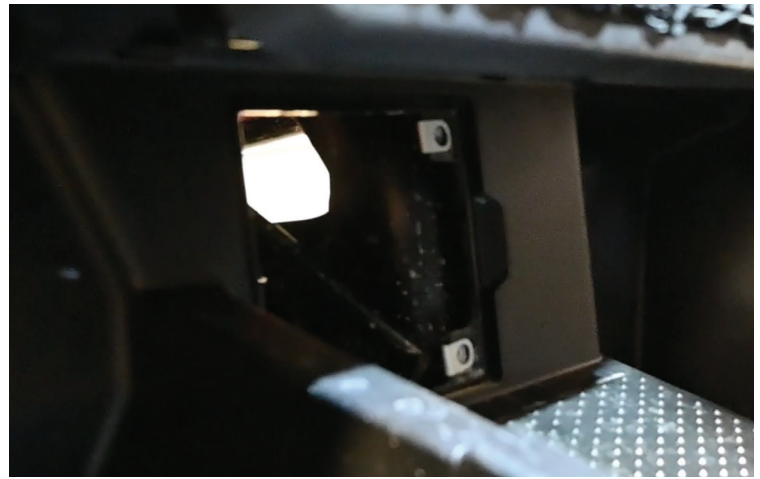


FIG 26

28. Feed fan harness (Green connector end) wires down the fire wall to the center access panel you removed and pull through. FIG 27



FIG 27

29. Using a piece of wire, make a pull wire that you can feed under the seat to the open access panel. This will make it easier to feed the harness under the floor board. Tape the pull wire to the harness and pull through under the seat. Remove the pull wire. FIG 28 & FIG 29



FIG 28



FIG 29

30. Route the fan harness (green connector) to the blower motor (red covered wiring harness) and connect. FIG 30



FIG 30

31. Under the hood, attach the battery harness to the battery. Red to positive and Black to negative. FIG 31

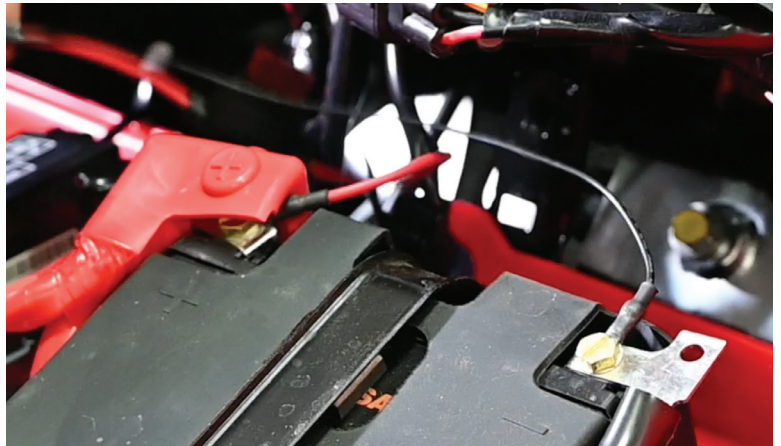


FIG 31

32. Using zip ties, attach the harness to the main harness under the hood and along its path. Make sure it is clear of the drive shaft and any other moving parts.

33. Test the function of the fan. Turn the switch on to make sure the fan operates and the light on the switch illuminates. FIG 32



FIG 32

34. Install the flex hose between the fan and the exit duct. FIG 33

NOTE: You may have to slightly bend the fan mounting bracket to the side to make clearance for the plastic seat tray that installs on top of the assembly.

35. Reinstall the access panel, plastic panels under the seat and seats.

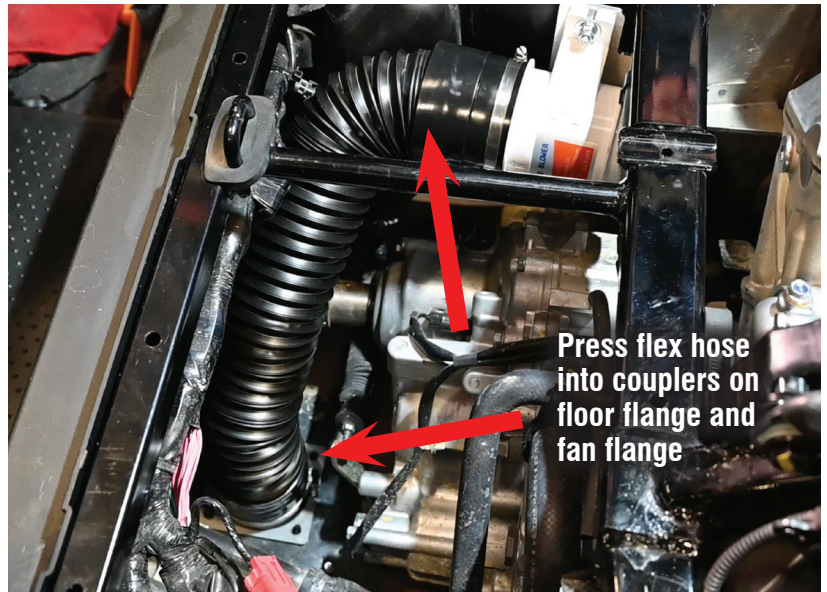
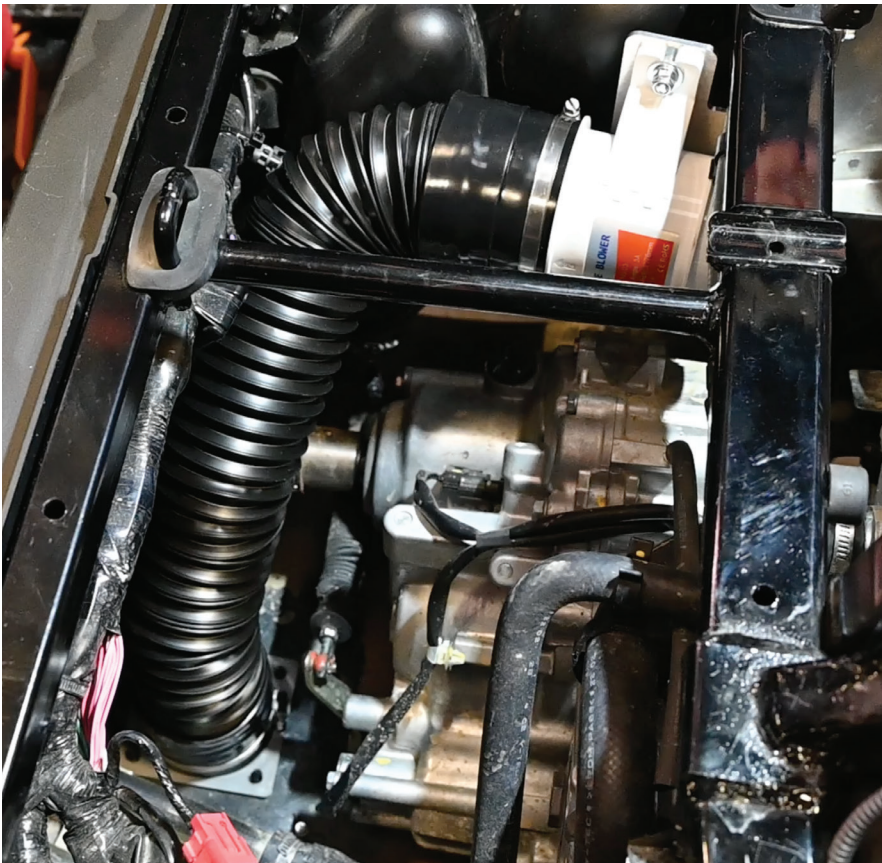


FIG 33

NOTE: The fan will run anytime the switch is turned on. Make sure to turn the fan off when the machine is not running. An option would be to wire the battery harness to the ACC terminal in the fuse box. This will make it so the ignition must be on for the fan to run.

COMPLETE FAN INSTALLATION



COMPLETE SWITCH INSTALLATION

