

Kawasaki Mule PRO FX Series (2015-Current) Direct-Fit Cab Heater with Defrost

STEP 1: PRE-INSTALLATION

- 1) Remove the hood.
- 2) Remove all screws (2), bolts (3) and plastic rivets holding the center dash panel in place.
- 3) Loosen the Control Dash panel – inside the cab.
- 4) Shim the front hood up the roll cage (**PIC01**). This will provide necessary working space.

STEP 2: MOUNTING THE HEATER

- 5) Set the heater in place (**PIC02**).
- 6) Use the (2) self-tapping screws and secure the top bracket into the square framing (**PIC02**).
- 7) Use a drill bit and drill through the paneling to create a hole for the bottom bracket bolt.
- 8) Using the bolt and nut provided, secure the bottom bracket to the wheel well panel (**PIC02**).

STEP 3: SPLICE INTO THE COOLANT LINES

- 9) Drill (2) 1-3/8" holes in the fender panel for the heater hose grommets (**PIC03**).
 - The location of the grommets can differ from machine to machine depending on what existing accessories (or accessory wiring) you have in this location.
- 10) Using line clamps, pinch off the lower radiator hose on each side of where you will make the cut (**PIC04**).
- 11) Cut the lower radiator hose and install the Y-Fitting (**PIC04**).
 - Make sure the 5/8" splice fitting is facing toward the radiator, we want the return coolant entering the radiator hose in the same flow direction as what is coming from the radiator.
- 12) Secure the hose ends to the Y-Fitting using the hose clamps provided.
- 13) Cut a 30" piece of hose.
- 14) Connect the 30" hose from the Y-Fitting splice (through the grommet) to the highest heater core fitting, relative to gravity. Secure each end with hose clamps provided.
- 15) Raise the bed of the machine and locate the engine (**PIC05**).
- 16) Using line clamps, pinch off the upper (inlet) radiator hose on each side of where you will make the cut (**PIC06**).
- 17) Cut the upper radiator hose and install the Y-Fitting (**PIC06**).
 - Make sure the 5/8" splice fitting is facing toward the front of the machine, we want the coolant from the radiator hose to flow into the Y-Fitting in the same direction (picture an exit ramp off of a Freeway).
- 18) Secure the hose ends to the Y-Fitting using the hose clamps provided.
- 19) Remove the main skid plate from underneath the machine.
- 20) Using the remaining heater hose, run it under the machine and feed it back to the engine (**PIC05**).
 - Run the hose down the side of the radiator and under the machine (**PIC04**).

- Run the hose to the engine making sure to avoid the drive shaft. Use the extra zip ties included to tie the hose away from the drive shaft, when needed.
- 21) Once to the back of the machine, connect the heater hose to the Y-Fitting and secure with the hose clamps provided. Trim off the excess heater hose as needed.

STEP 4: WIRING

- 22) Using a razor blade, cut out a switch embossment and install the rocker switch (**PIC07**).
- 23) Using the wiring harness, plug the switch connector into the back of the rocker switch.
- 24) Using the wiring harness, run the blower fan connector to the heater box and plug it into the heater blower.
- 25) Using the wiring harness provided, run the red and black wires to the heater accessory wire and connect - red to brown / black to black (**PIC08**).
- 26) Once the wiring is complete test it to make sure the blower runs properly.

STEP 5: INSTALL LOUVERS AND RUN DUCT

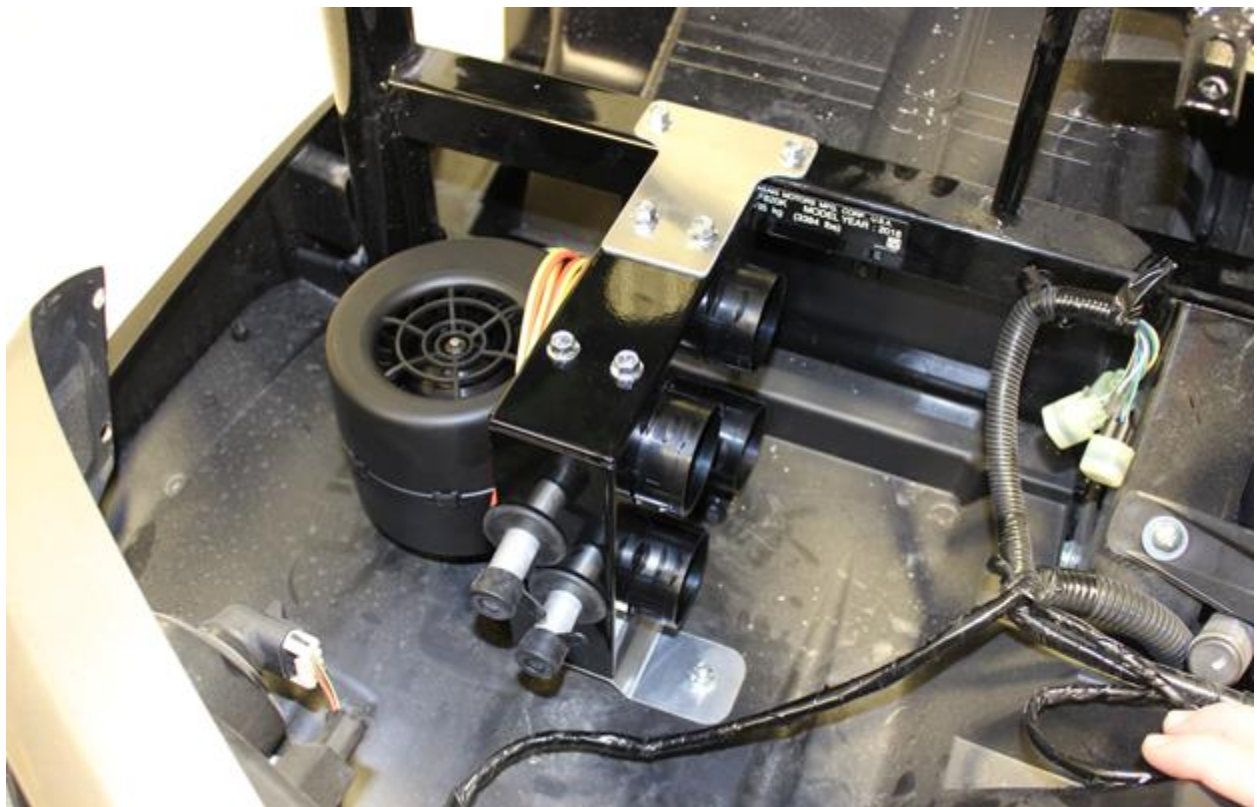
- 27) Cut your runs of duct at the following sizes: 45" (driver defrost), 36" (driver floor), 30" (passenger floor), and 18" (passenger defrost) and install them on the heater box adapters using the zip ties provided. Put the 18" run on the upper right adapter.
- 28) Using a 2.5" hole-saw, measure 3.5" off the panel edge and drill two holes (**PIC09**).
- 29) Using the two circular louvers, set the face in the hole and screw the back adapter piece on from the back side. Install duct clips on each louver adapter for maximum hold.
- 30) Secure the duct from the heater to the louver adapters with the zip ties provided.
- 31) **INSTALL THE CENTER HOOD PANEL BACK ONTO THE MACHINE FRAMING.**
You want the paneling secure to the machine when you cut in the defrost vent openings.
- 32) For the defrost vents, tape the defrost cut out template on the machine (**PIC10**).
- 33) Trace the hole with a marker and drill 4 bit holes (1/4") in the corners.
- 34) Take a razor blade knife and cut from corner to corner, connecting the 4 holes.
 - Make sure you cut straight down and pull straight up, you want to avoid pulling and pushing the blade to avoid slipping when cutting. Also, you can heat up the blade and it will cut through the paneling much easier.
- 35) Install the defrost louvers (**PIC11**) (**PIC12**).
- 36) Install the runs of duct to the defrost vents with the zip ties provided. You can access the backside of the vents through the hood opening.

STEP 6: REFILL COOLANT

- 37) Refill the radiator and check for leaks.
- 38) Start the machine and allow the engine to warm up and circulate the coolant.
- 39) Drive the vehicle and put it under a good load, this will help expel air from the system.
- 40) When done let the machine cool down, recheck the coolant level and refill coolant if needed.
- 41) Coolant will be consumed as the air is expelled from the system. It is possible you will need to run the machine and recheck fluid levels multiple times before working out all of the air.



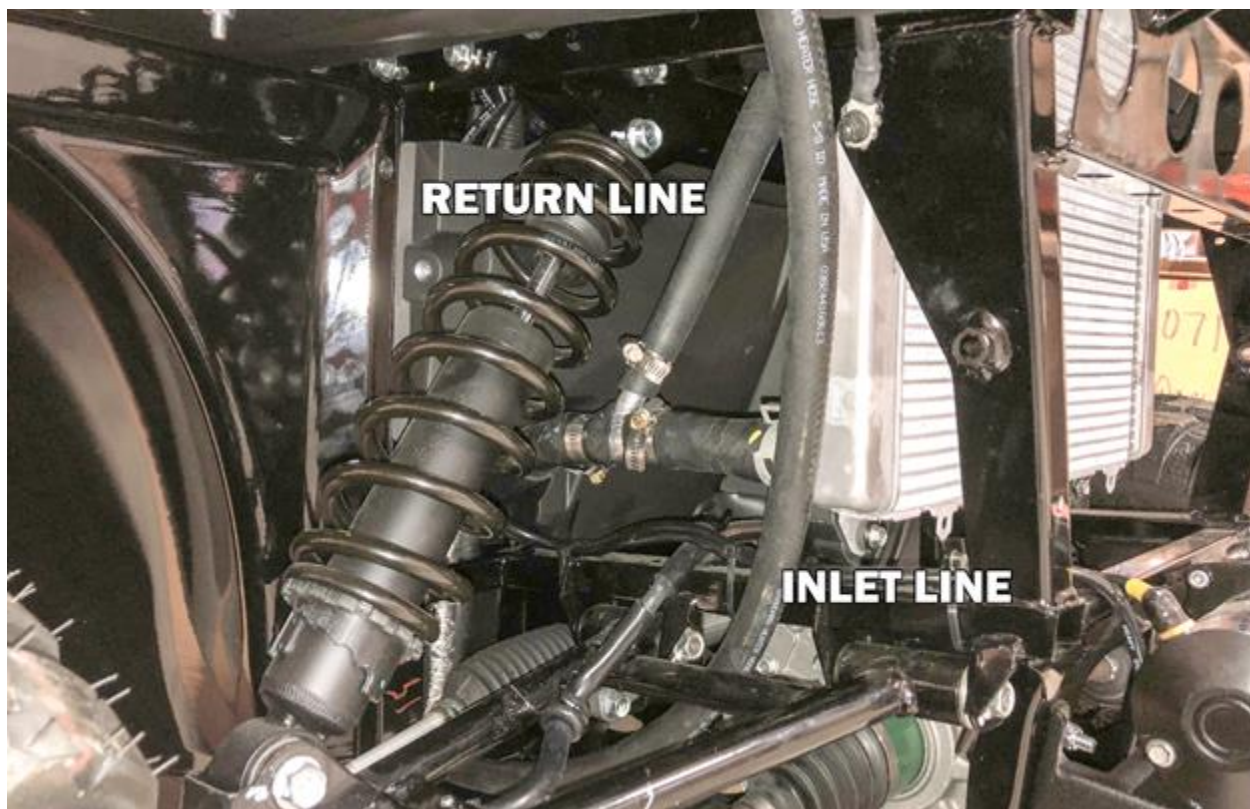
PIC01



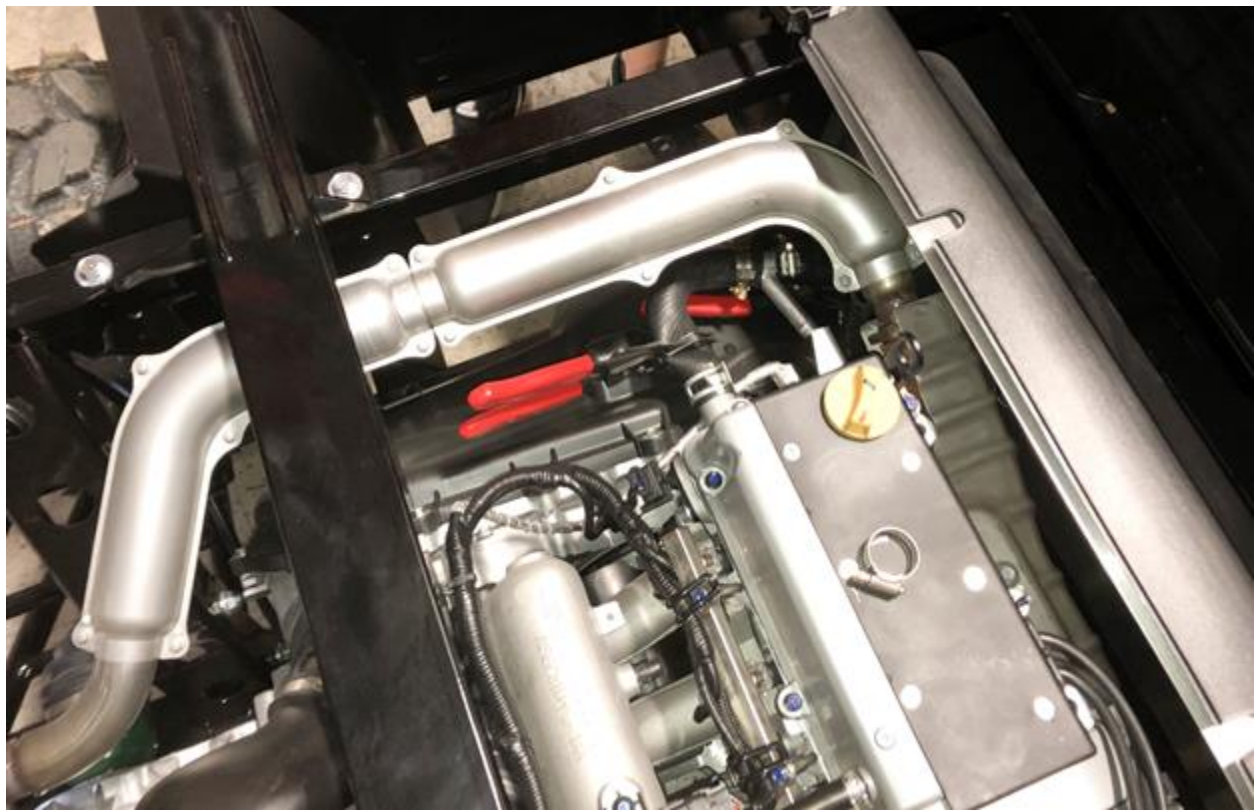
PIC02



PIC03



PIC04



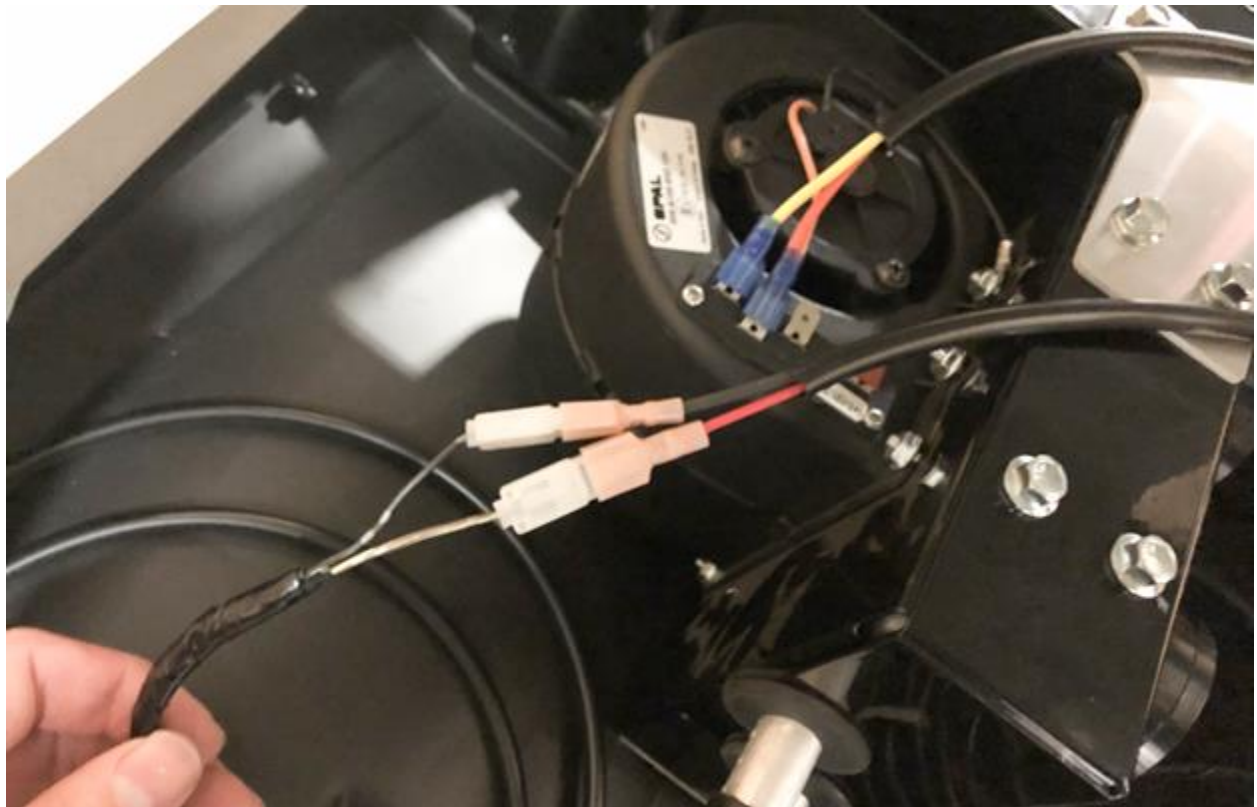
PIC05



PIC06



PIC07



PIC08



PIC09



PIC010



PIC11



PIC12

