

## Polaris Ranger 900 XP (2013 - 2019)

## Polaris Ranger 1000 XP (2017)

## Direct-Fit Cab Heater with Defrost

165 169

### STEP 1: PRE-INSTALLATION

- 1) Remove the hood.
- 2) Remove the glove box by:
  - Removing the (4) small screws at each corner of the glove box, and
  - Removing the (1) large bolt located at back of the glove box.
- 3) Remove the top portion of the dash (**PIC01**).
  - NOTE: there are top, middle and bottom portions to the full dash panel. The middle portion stays in place during the install.
- 4) Remove the bottom portion of the dash (**PIC01**).
  - You will install floor vents on this panel later in the installation.
- 5) Remove the middle floor cover (**PIC01**).
  - You will use this floor access to run heater hose later in the installation.

### STEP 2: INSTALLING THE HEATER BOX

- 6) On the heater box, remove the (4) side bolts on the mounting bracket so one piece is loose and one is still attached to the heater box.
- 7) Using the (3) self-tapping screws provided, mount the loose mounting bracket piece under the 2x2 steel square framing that runs under the dash (**PIC02**).
  - The bracket holes are cut so it can be adjusted after screws are drilled.
- 8) Fit the heater box up into the previously installed top bracket and re-install the two brackets together using the (4) side bolts (**PIC03**).

### STEP 3: SPLICE INTO COOLANT LINES

- 9) Using a 1-3/8" hole-saw, install the rubber grommets into the firewall (**PIC03**).
- 10) Using clamps, clamp off on each side of the lower radiator line where you will cut in to install the 1" Y-Fitting (**PIC04**), once installed, secure with the hose clamps provided.
  - Make sure the 5/8" splice is pointing toward the radiator, the coolant flows back into the lower radiator line in the same direction it is moving from the radiator.
- 11) Cut a 3-foot piece of the supplied heater hose (use the white notches on the hose to measure) and run it through the upper rubber grommet, into the cab, and secure it to the upper heater core fitting.
- 12) Run the return (upper) heater hose to the Y-Fitting, secure with the hose clamps provided (**PIC04**).
- 13) Run the remaining heater hose through the lower rubber grommet, into the cab, and secure it to the lower heater core fitting.
- 14) From the passenger side rear wheel well, locate the oil cooler line. Make a cut in the oil cooler line and install the Tee-Valve (**PIC05**), secure with hose clamps provided.
  - When ON (yellow handle pointing at the heater hose) all of the coolant will be diverted to the heater and returned to the engine at the Y-Fitting. When OFF (yellow handle parallel with oil cooler hose) all the coolant will flow to the water pump and up to the radiator (like normal).

- Note the handle is on the bottom of the Tee when installed (handle is facing down).  
**PLEASE REFER TO PIC05** so this does not get installed wrong.
- 15) Run the inlet heater hose under the machine (**PIC05**) to the rear passenger side. Zip tie out of the way of the drive shaft, if needed, then install onto the Tee-Valve.

#### **STEP 4: INSTALL VENTS AND LOUVERS AND RUN DUCT**

- 16) Stretch your duct out and cut into the following lengths: (2) 20" pieces for the defrost vents and (2) 16" pieces for the floor vents.
- 17) With the top dash panel off turn it over and measure a 3.75" x 1.80" opening. Measure this is off of the inside-front corner of the OEM vent embossment on both sides (**PIC06**).
- 18) Using a utility knife cut the opening out (**PIC07**). Make sure to plunge the blade straight down and pull the blade straight out. Use a flame on the blade to make cutting easier.
- 19) Install the two defrost vents (**PIC08**) (**PIC09**).
- 20) On the lower dash panel, cut and remove the existing cubby hole (**PIC10**).
- 21) Use the floor vent cut-out template and tape in on the lower dash panel (**PIC11**).
- 22) Using an approx. 1/8" drill bit, drill out pilot holes on the template, then remove the template.
- 23) Using a 2.5" circle saw, cut the louver openings and install the floor louvers (**PIC12**).
- You will need to unscrew the face from the adapter and set the louver face in the hole. Then screw the adapter on from the backside.
  - Use the adapter clips for extra duct hold on the louver.
- 24) Included in the kit is a cubby-hole plate cover, install this plate as shown (**PIC12**).
- 25) Connect the four runs of duct from the vents to the heater box adapters and secure with the zip ties provided.

#### **STEP 5: WIRING**

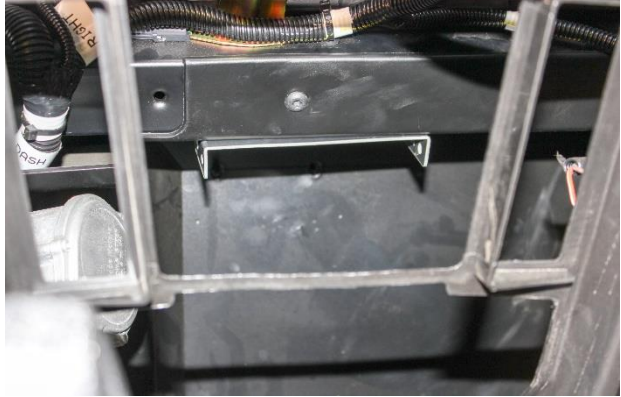
- 26) Remove one of the factory switch plates and install the rocker switch.
- 27) Using the wiring harness, plug the switch connector into the back of the rocker switch.
- 28) Using the wiring harness, plug the blower fan connector to the heater box blower.
- 29) Under the hood there is a circular embossment, drill a 1/2" bit hole in the middle of this embossment (**PIC13**).
- 30) Using the wiring harness, run the accessory 12v and ground eyelets through the fire-wall hole and onto the accessory bar (**PIC14**).
- 31) Once the wiring is complete test the heater blower.

#### **STEP 6: REFILL COOLANT**

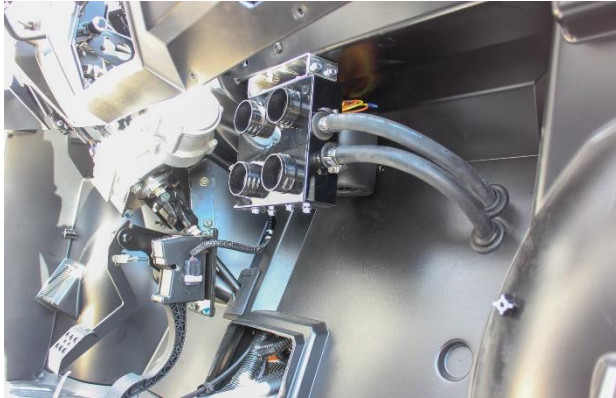
- 32) Refill the radiator and check for leaks.
- 33) Start the machine and allow the engine to warm up and circulate the coolant.
- 34) Test drive the vehicle and put it under a load, this will help expel air from the system.
- 35) When done let the machine cool down, recheck the coolant level and refill coolant.
- 36) 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.



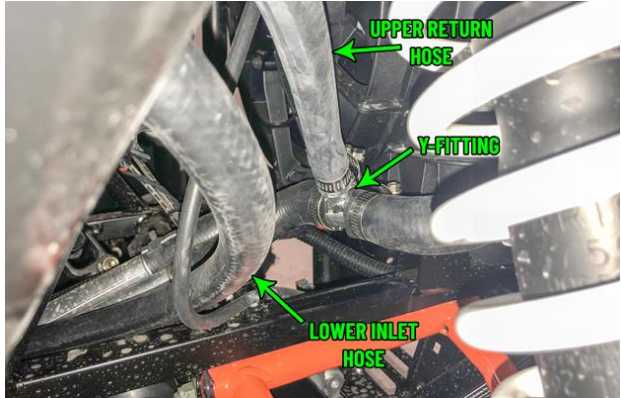
PIC01



PIC02



PIC03



PIC04



PIC05



PIC06



PIC07



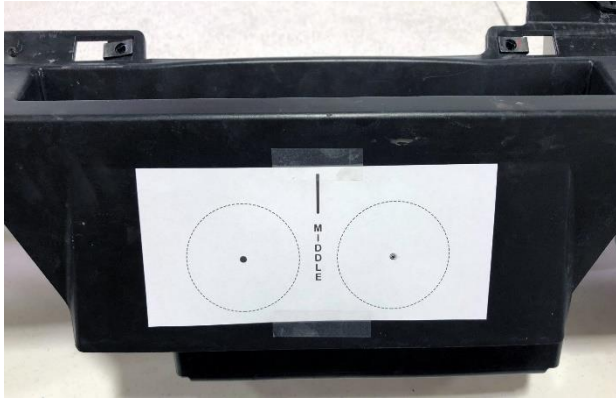
PIC08



PIC09



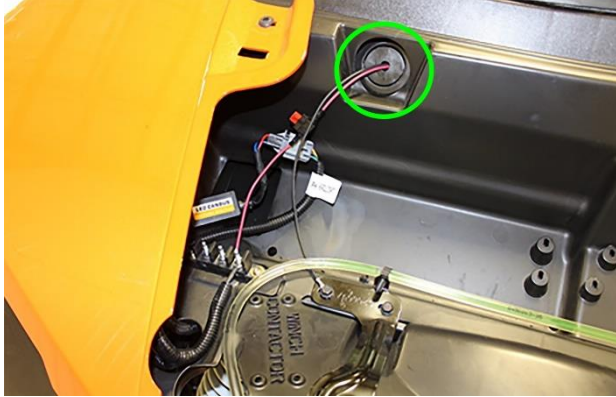
PIC10



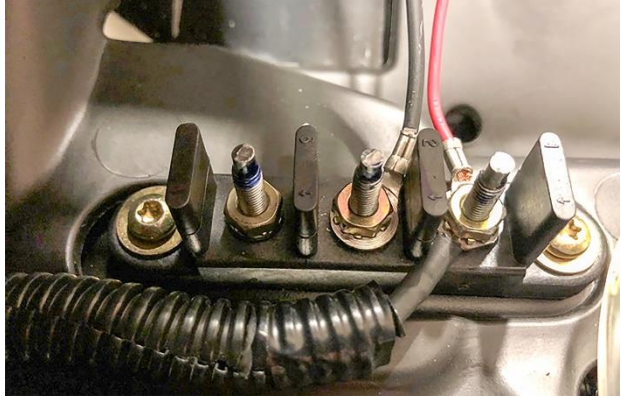
PIC11



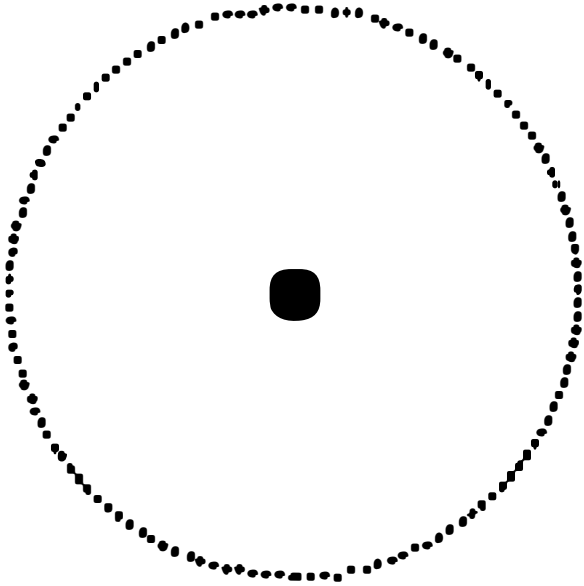
PIC12



PIC13



PIC14



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