Polaris Ranger XP 1000 (2018-Current)
Polaris Ranger 1000 (2020-Current)
Direct-Fit Cab Heater with Defrost

STEP 1: PRE-INSTALLATION

1) Remove the hood (**PIC01**).
2) Remove the top dash panel (**PIC01**).
3) Remove the center dash cup holder (**PIC01**).
4) Remove the passenger side dash storage compartment (**PIC01**).
5) Remove the driver gauge panel (**PIC01**).
6) Remove these extra (3) bolts on the passenger side (**PIC02**).
7) Remove the center cubby storage panel (**PIC03**).

STEP 2: WIRING

8) Cut out a switch opening in one of the factory cutouts (**PIC04**).
    - Do not cut out the entire embossment, it is larger than a standard rocker switch. You will cut short on the top and bottom.
9) Install the rocker switch in the switch opening.
10) Using the wiring harness, plug the switch connecter into the back of the rocker switch.
11) Using the wiring harness provided, run the power wires (red/black) to the front of the machine and install onto the accessory bar (**PIC05**).
12) After you mount the heater you will plug the white blower connector to the heater, leave this connector hang for now.

STEP 3: INSTALL LOUVERS

13) Tape the louver cut-outs on the floor louver locations and drill pilot holes for your hole-saw (**PIC06**) (**PIC07**).
14) Using a 2.5” hole-saw drill out the holes for the floor louvers.
15) The floor louvers provided are 2-piece louvers, screw off the face from the adapter.
16) Cut two 24” pieces of duct for each floor louver and attach them to the adapters (**PIC08**).
    - Make sure to use the duct clips on the adapters, then secure with the zip ties provided.
17) Set the louver face in the hole and screw on the adapter from the back side.
    - Leave the duct hang for now, you will attach to the heater later in the install.
18) Using the top dash panel removed in STEP 1, you will begin to make openings for the defrost vents.
19) Start by drilling pilot holes in each corner of the factory embossment (**PIC09**).
20) Using a razor blade (or other cutting tool), connect the 4 holes with cuts (**PIC10**).
    - If using a razor blade it helps to heat the blade up with a flame. To cut, plunge straight down and pull straight up to avoid slippage.
21) Install the defrost louvers (**PIC11**).
    - Do not run duct work right now, this will be done later in the install.

STEP 4: MOUNTING THE HEATER

22) Locate the bulkhead embossment on the firewall, it looks like a figure 8 shape (**PIC12**).
23) Using a 1-3/8" hole-saw, drill one hole between the embossment and the firewall bend and the other hole just above the firewall bend (**PIC12**).
    - Both of your holes will be drilled centered on this embossment (see green line on **PIC12**).
24) Install the rubber grommets in the holes (**PIC13**).
25) Cut a 2-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.
26) Run the remaining heater hose through the lower rubber grommet, into the cab.
27) Connect the runs of heater hose to the upper and lower heater core fittings, secure with hose clamps provided (**PIC14**).
28) Slowly raise the heater into place and feed the heater hose back through the grommets as you raise it into place.
29) Set the heater in place and mark the lower mounting hole.
    - Make sure this mark is just to the right (toward passenger side) of the factory hole (**PIC14**).
    - Drill the pilot hole with a 1/8" drill bit (**DO NOT** skip this step).
30) Set the heater back in place and using the self-tapping screws provided, mount the lower mounting hole (on the heater bracket).
31) Using the self-tapping screws provided, mount the upper mounting hole on the heater bracket.
    - Have a partner pull back on the firewall panel (**PIC15**).
    - Use an extension on your 3/8" socket and, using the self-tapping screws provided, mount the upper mounting hole (on the heater bracket) (**PIC16**).

STEP 5: SPLICE INTO COOLANT LINES

32) Using a 10 socket on a drill, drop the main skid plate underneath the machine
33) Using clamps, clamp off on each side of the lower radiator line where you will cut in to install the 1" Y-Fitting (**PIC09**), 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.
34) Run the return (upper) heater hose to the Y-Fitting, secure with the hose clamps provided (**PIC17**).
35) 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 (**PIC18**), secure with hose clamps provided.
    - Refer to **PIC19** and **PIC20** for the position of the butterfly handle when the Heater is ON and OFF. Note the handle is on the bottom of the Tee when installed (handle is facing down).
    - When ON all of the coolant will be diverted to the heater and returned to the engine at the Y-Fitting. When OFF all the coolant will flow to the water pump.
36) Run the inlet heater hose under the machine (**PIC17**) to the rear passenger side. Zip tie out of the way of the drive shaft, if needed, then install onto the Tee-Valve.

STEP 6: RUN DUCT

37) Connect the (2) runs of duct from the floor louvers to the heater box (**PIC16**).
38) Cut runs of duct of 36” (Driver Defrost) and 18” (Passenger Defrost) and connect both runs to the upper heater box adapters (**PIC21**).
39) Re-install the glove box.
    - Have a partner pull on the middle dash to allow for more room to maneuver the glove box back into place. The 3 screws removed in **PIC02** will make this much easier.
40) Set the top dash piece in place and connect the two runs of duct to the defrost vents (**PIC22**).
41) Re-install all dash and cab panels.

STEP 7: REFILL COOLANT

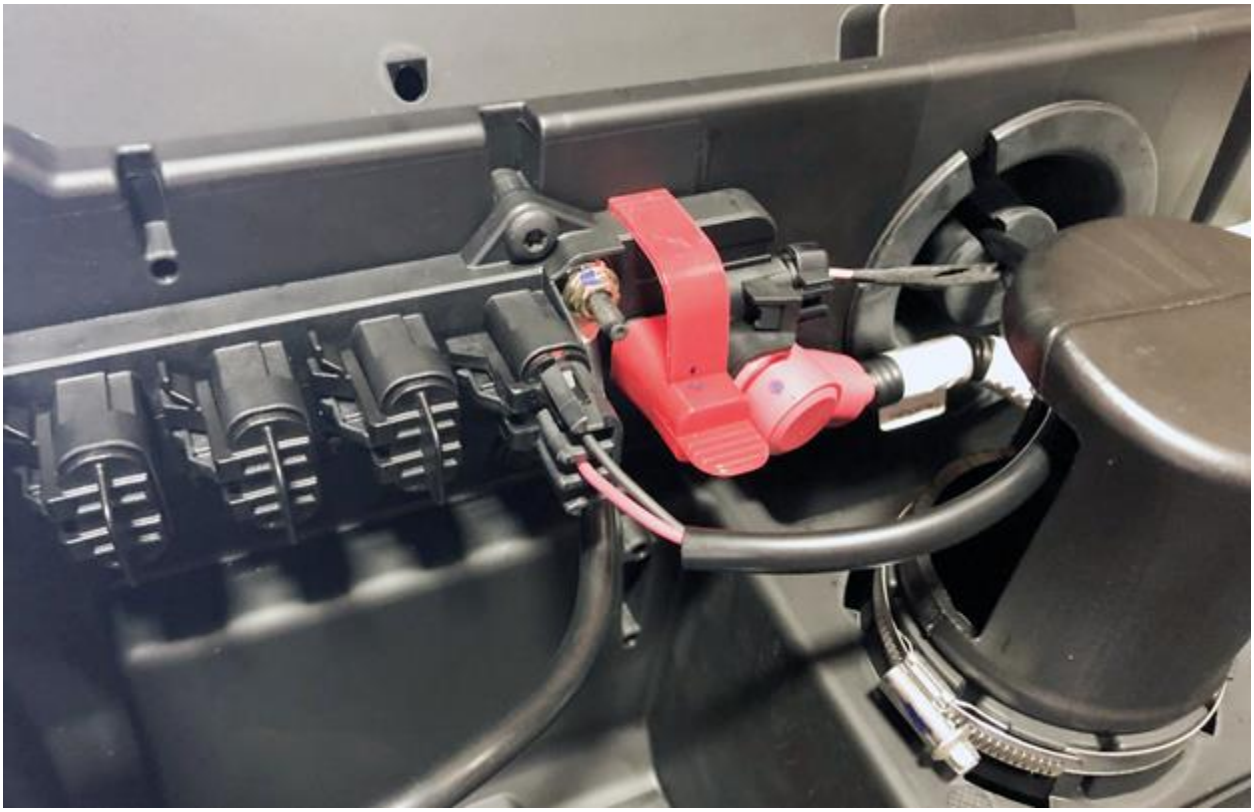
42) Refill the radiator and check for leaks.
43) Start the machine and allow the engine to warm up and circulate the coolant.
44) Drive the vehicle and put it under a good load, this will help expel air from the system.
45) When done let the machine cool down, recheck the coolant level and refill if needed.
46) 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

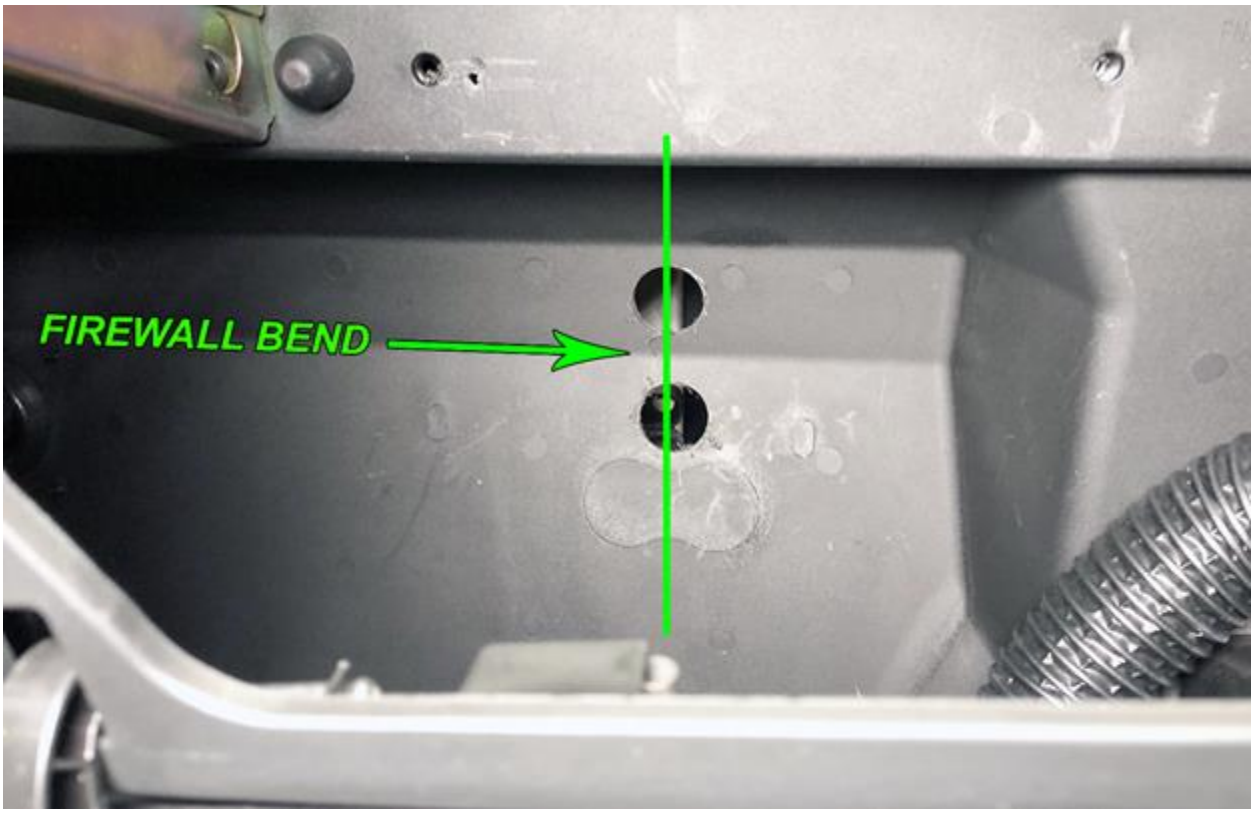
PIC07

PIC08

PIC09

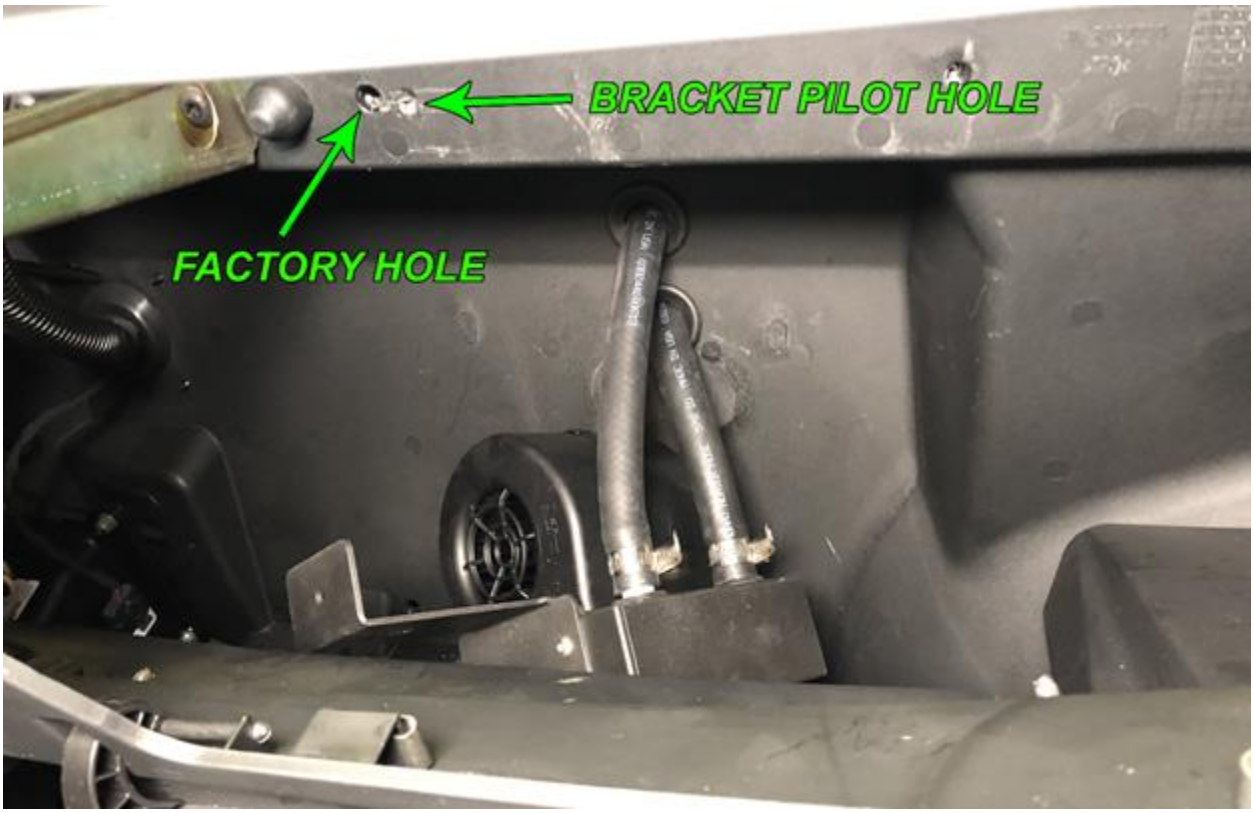
PIC10

PIC11



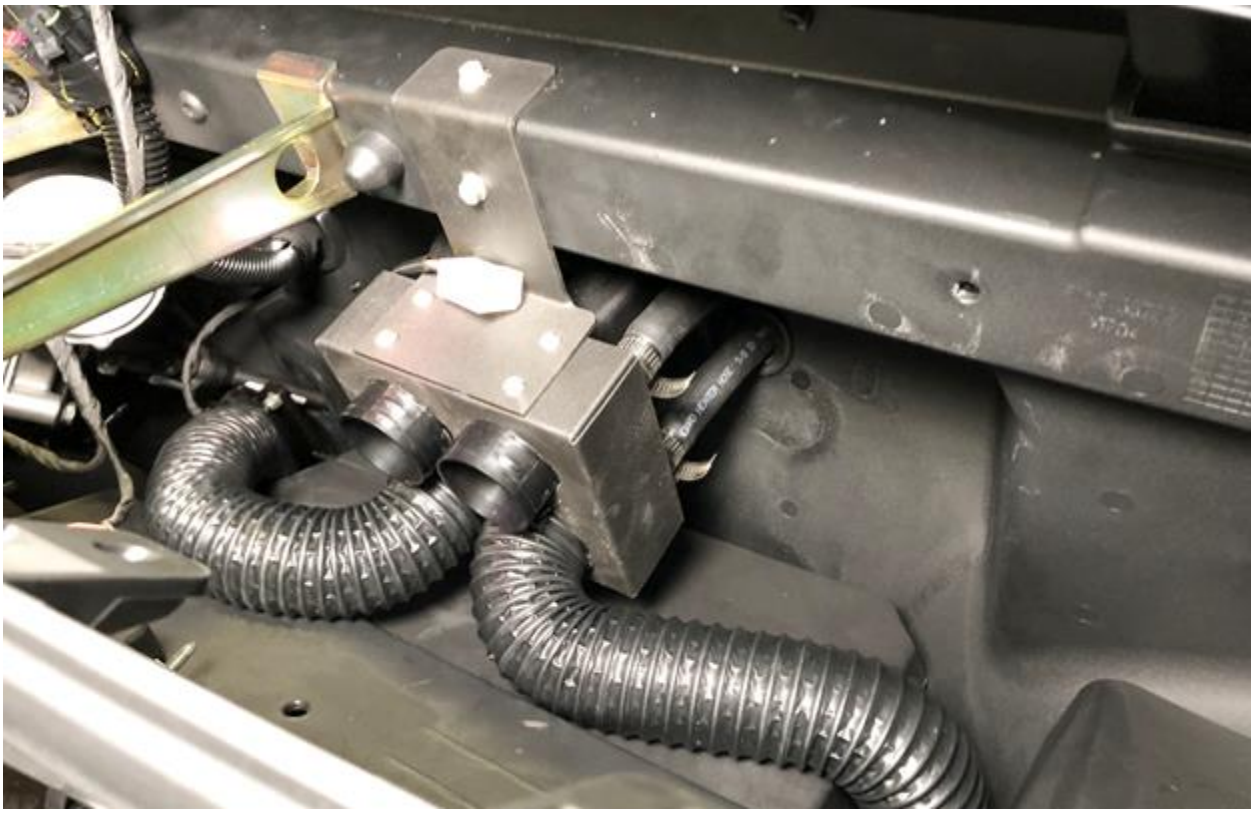
PIC12

PIC13



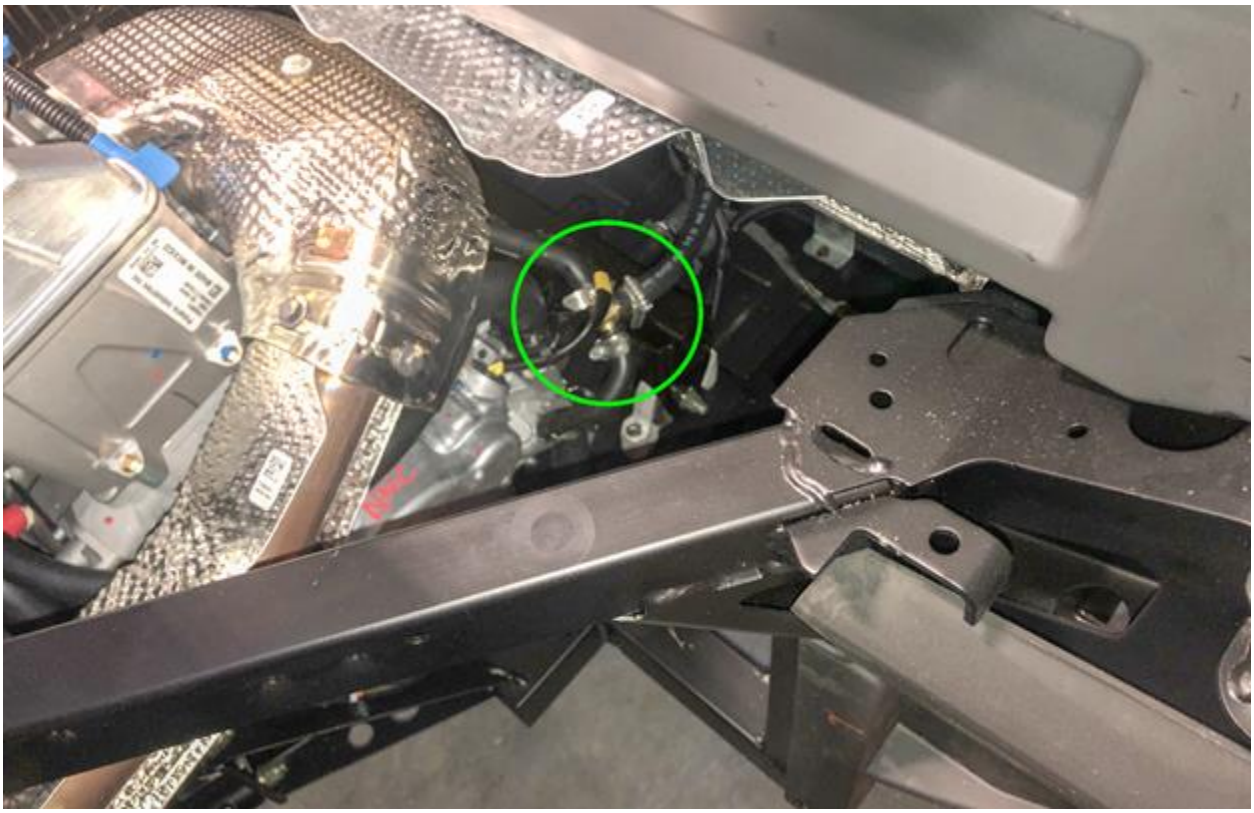
PIC14

PIC15

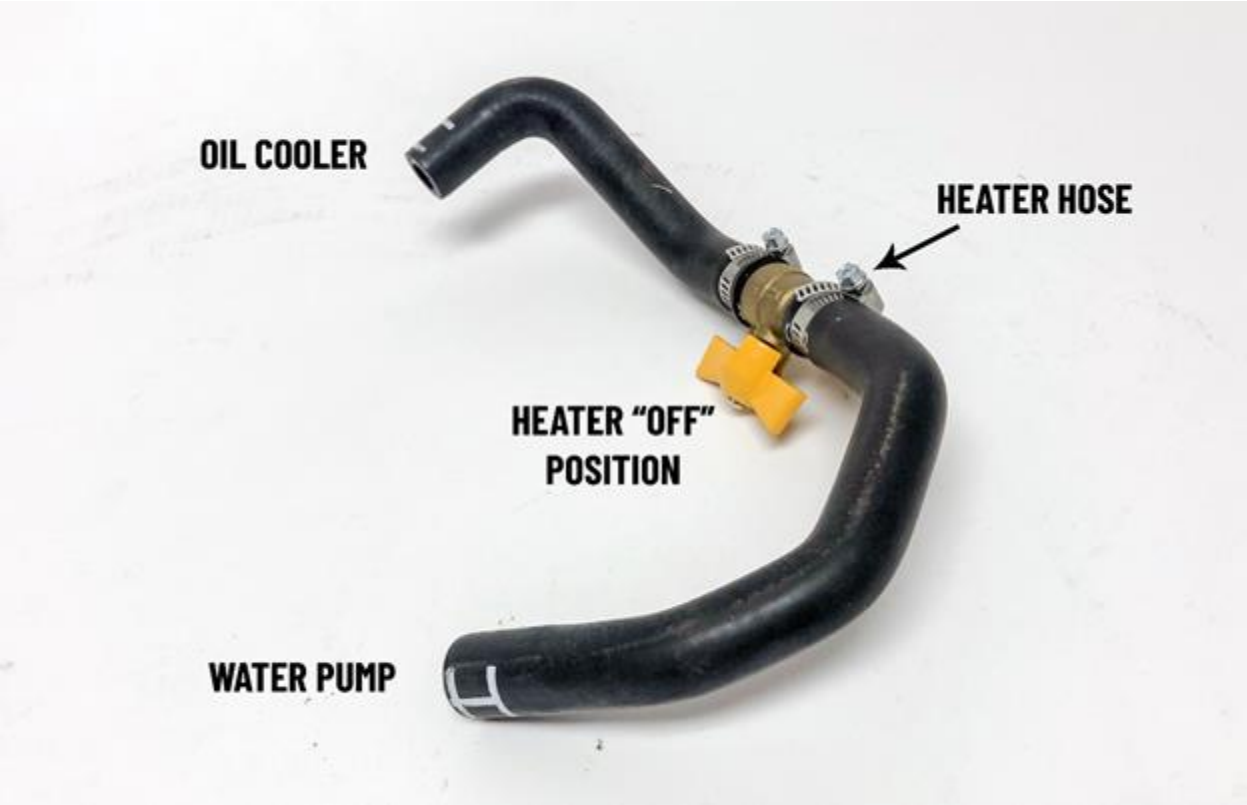


PIC16

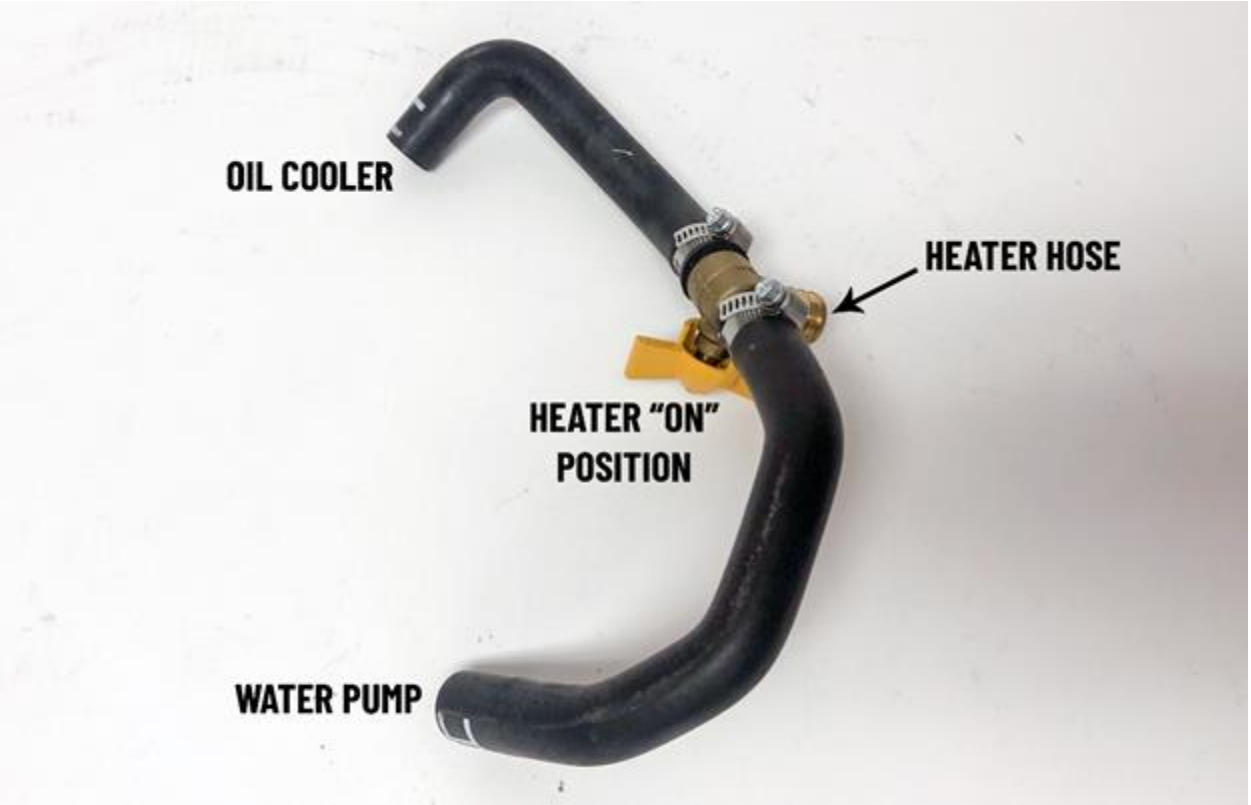
PIC17



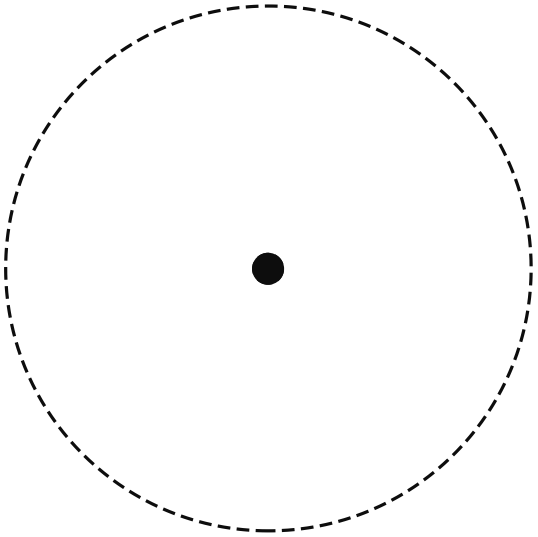
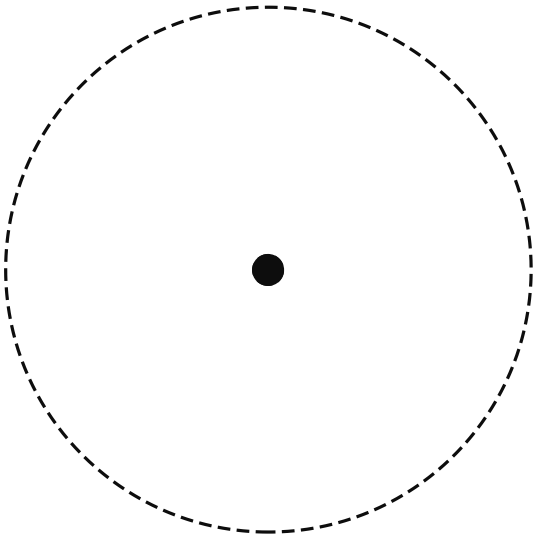
PIC18


OIL COOLER
HEATER HOSE
HEATER "OFF"
POSITION
WATER PUMP

PIC19


OIL COOLER
HEATER HOSE
HEATER "ON"
POSITION
WATER PUMP

PIC20

PIC21

PIC22