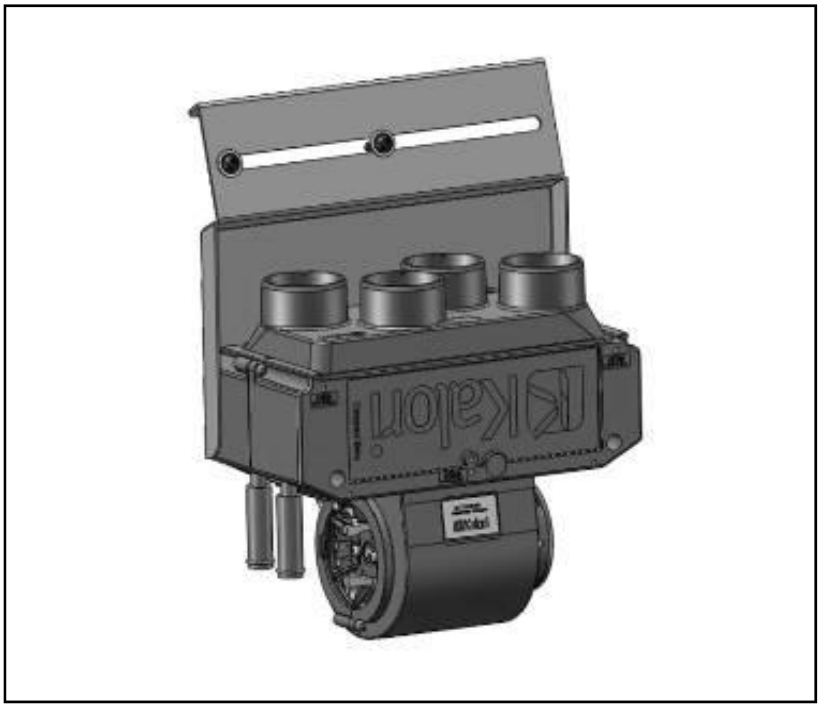
INSTALLATION & OWNER'S MANUAL

POLARIS RANGER XP 900, CREW XP 900, XP 1000 EPS, and CREW XP 1000 EPS HEATER INSTALLATION p/n: 9PH20S67

The contents of this envelope are the property of the owner.
Be sure to leave with the owner when installation is complete.



California Proposition 65

⚠ WARNING ⚠

Engine exhaust, some of its constituents, certain vehicle components and fluids, contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

revised: 01-05-2017

1. HEATER PREP

1.1 IMPORTANT: It is absolutely necessary to remove the rubber plugs from the heater tubes

2. HEATER INSTALLATION

2.1 In fig. 2.1, the heater is shown installed in the middle area underneath the dashboard

2.2 Remove the middle cable tunnel cover from the floor of the UTV

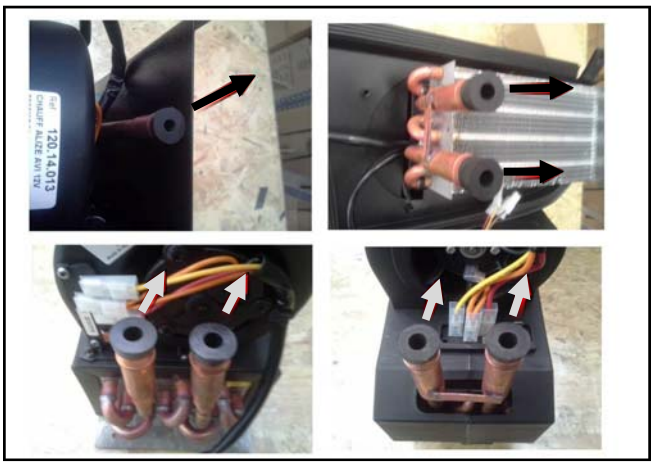


Fig. 1.1

Fig. 2.1

Fig. 2.2

2.3 Secure the original hot water hose with clamps

2.4 Cut the hose between the clamps and place the hose clamps on the loose ends. Install the small “Y” connector into the original hose and into the heater hose. Fasten all hose clamps firmly and run the water hose from the engine to the central floor tunnel. It is necessary to keep the heater hose pointing down and forward (as indicated by the lower white arrow in photo 2.4)

2.5 Run the water hose through the floor tunnel (along the white arrow in photo 2.5)

Fig. 2.3

Fig. 2.4

Fig. 2.5

2.6 Cut the water hose (with the white arrow on it in the photo) to the correct length, be careful not to cut the hose too short.

Fig. 2.6

2.7 Install the short hose and the remainder of the hose to the heater tubes. Fasten these hoses to the heater tubes by tightening the hose clamps firmly. Place the hose clamp on the shorter hose and install the electric valve in the same orientation as shown in the picture. Tighten hose clamps firmly.

Fig. 2.7

2.8 Remove original screws from UTV's plastic wall (shown in the white circles in the photo).

2.9 Connect the harness as shown.

2.10 Make the connection show.

Fig. 2.8

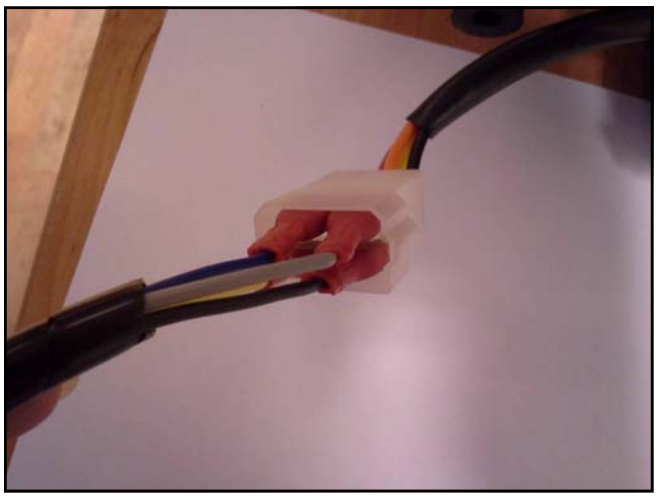


Fig. 2.9

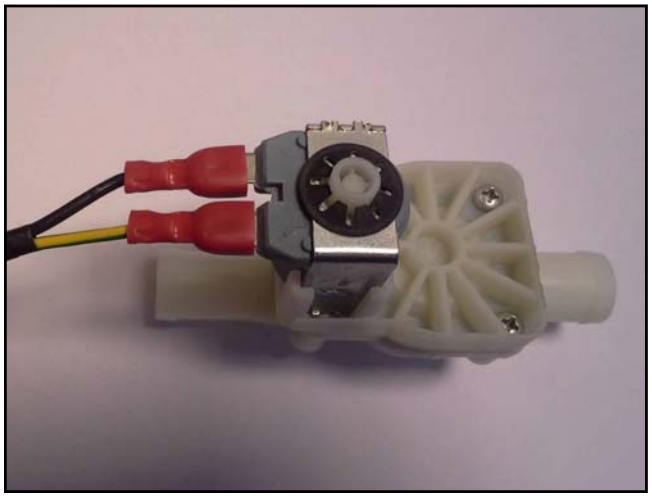


Fig. 2.10

2.11 Place the heater with holder onto the UTV inner wall and adjust to correct position.

2.12 Attach the heater bracket to the UTV wall using the supplied screws (M6x30) and washers (location shown in the white circles in the photo).

2.13 Insert the tightening strap onto the hose from engine (thin, white upward arrow in photo) and connect that hose to the electric valve. Tighten strap firmly. Route the water hose (shown as the downward arrow in the photo) from the heater to the front left wheel area.

Fig. 2.11

Fig. 2.12

Fig. 2.13

2.14 Secure vertical original hot water hose (shown under the white arrow in the photo) near the left wheel by pliers or clamps. Cut the vertical hose between the clamps and insert the tightening straps onto the hose.

2.15 Insert the “Y” connector into the original hole. Insert the tightening strap onto the hose from heater and insert that hose onto the “Y” connector. Tighten all straps firmly and remove the temporary clamps.

2.16 Cut the heater hose near “Y” connector and insert the tightening straps. Install the air vent valve into the hose and use hose clamp straps. Tighten straps firmly.

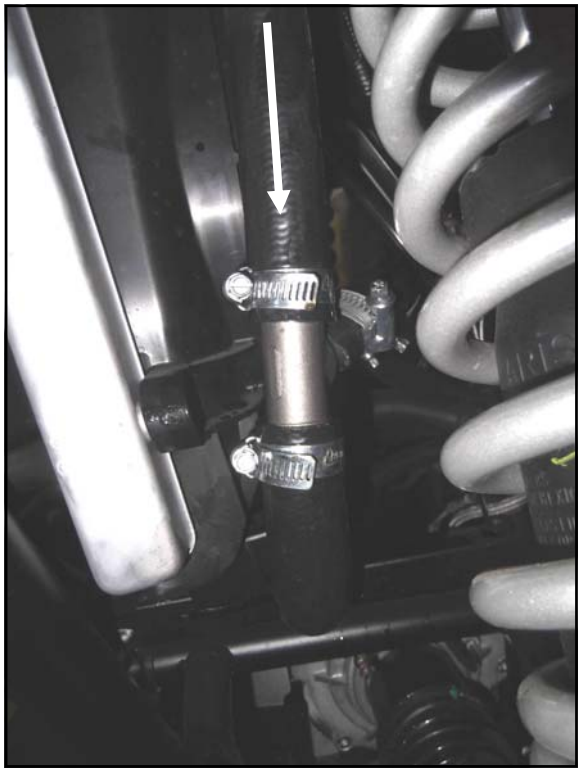


Fig. 2.14

Fig. 2.15

Fig. 2.16

2.17 Fig. 2.17 shows the hole pattern as 3 black circles. Drill one 13mm hole (1/2” diameter) and two holes at 3mm (1/8” diameter) into the dashboard in accordance with the ventilator switch base. Note: the distance between the larger center hole and each of the smaller holes is 14 inches. Small hole to small hole is 28 inches.

2.18 Make the connections shown.

2.19 Insert the switch body with the harness and with the serrated-lock washer into the prepared hole from the inside. Place the switch base onto the dashboard and onto the pin of the switch body.

Fig. 2.17

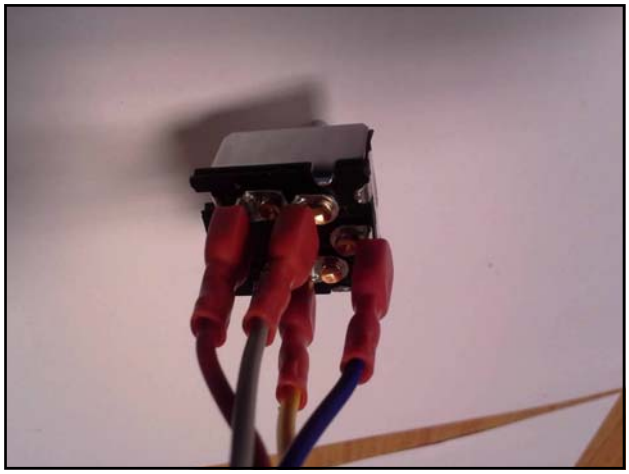


Fig. 2.18

Fig. 2.19

2.20 Attach the switch with the switch base to the dash-board using the supplied nut.

2.21 Place the plastic knob onto the switch pin.

2.22 Drill a 21mm hole (13/16” diameter) for the vent switch. The location is shown in the white circle in the photo.

Fig. 2.20

Fig. 2.21

Fig. 2.22

2.23 Pull the harness thru the hole and make the connections shown.

2.24 Connections shown.

2.25 Route the harness accordingly. See the next page for a wiring diagram.

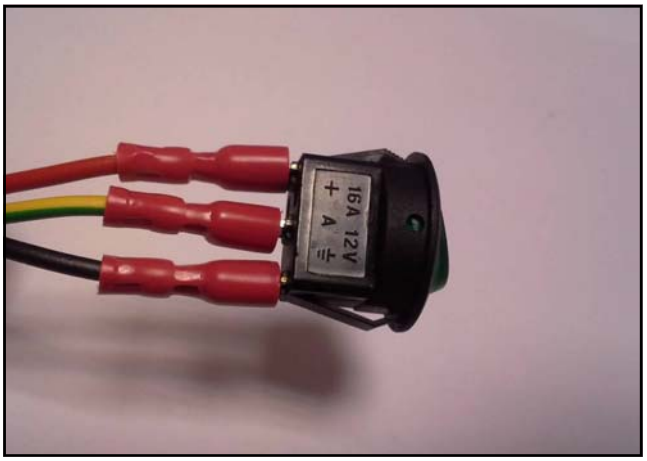


Fig. 2.23

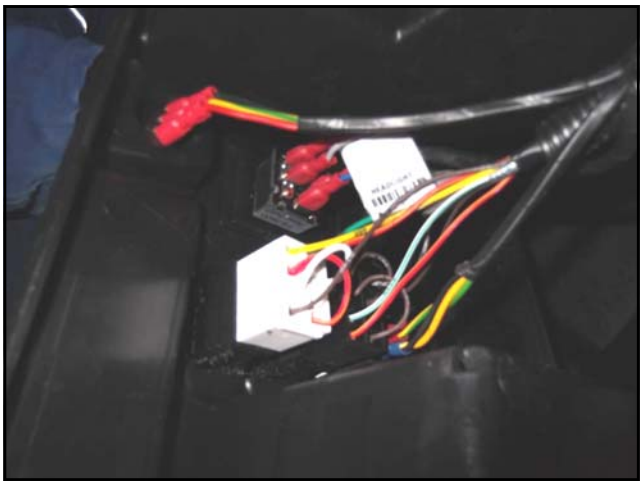


Fig. 2.24

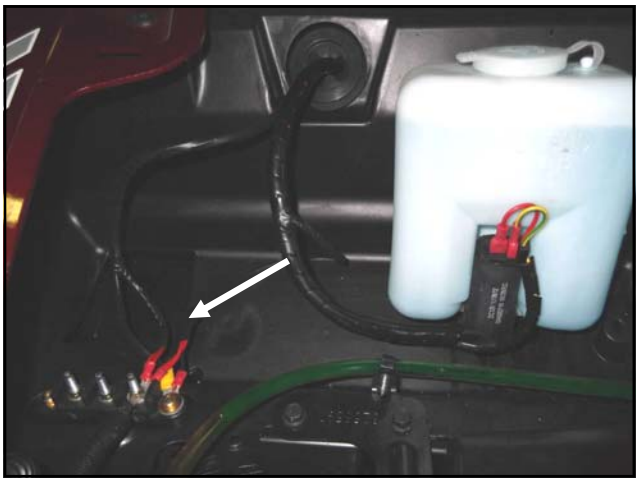
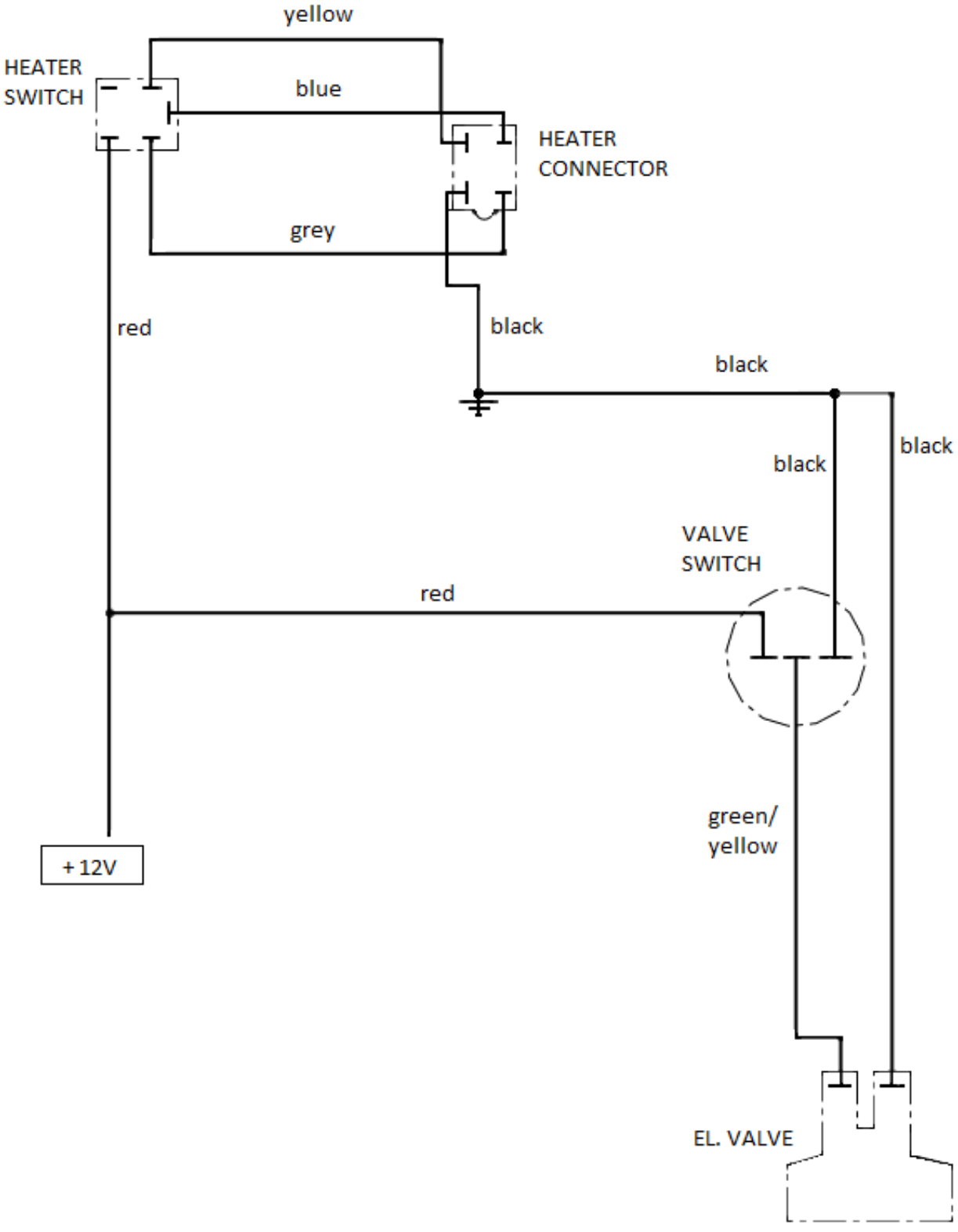


Fig. 2.25


yellow
HEATER
SWITCH
blue
HEATER
CONNECTOR
grey
red
black
black
black
black
VALVE
SWITCH
red
green/
yellow
+ 12V
EL. VALVE

2.26 Make the connections shown.

2.27 Make marks onto the dashboard and drill an 8mm hole (5/16” diameter) into the center mark.

2.28 Cut a 56mm hole (2.2” diameter) into the dashboard.

Fig. 2.26

Fig. 2.27

Fig. 2.28

2.29 Cut the edge carefully from inner side. Repeat these steps on right dashboard side. Insert the air hose into the heater air tube and attach using the supplied self-adhesive tape.

2.30 Route air hoses to the roller cage. Insert air vent smaller into the hole. Insert tightening strap onto the air hose and insert the air hose onto the air vent smaller. Tighten strap firmly.

2.31 Place the template onto the dashboard and adjust to best position.

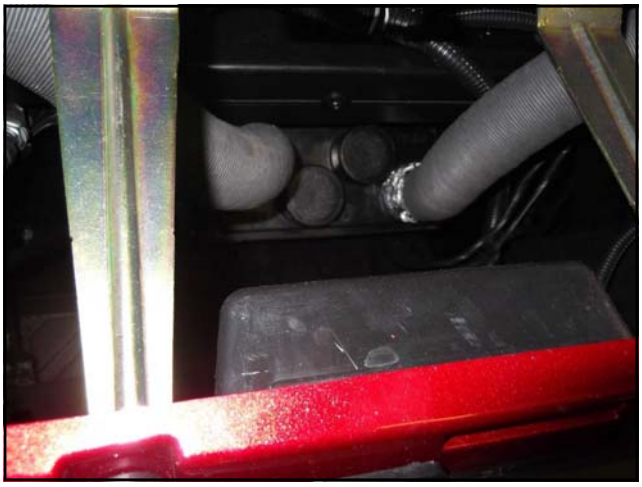


Fig. 2.29

Fig. 2.30

Fig. 2.31

2.32 Make marks in accordance with the template and and cut the holes ø76mm (3 in) into the mark's centers

2.33 Cut the hole's edges from inner side. Insert the air hoses into the heater air tube and attach using the supplied self-adhesive tape. Insert air vent straight into the holes from previous page and insert the air hose onto the air vent. Attach the hose with the vents by tightening straps firmly. Place the dashboard cover to correct position and attach using the original screws.

2.34 Stick the seal (along the path indicated by arrows in the photo) onto the UTV switch panel from inner side to upper edges and install panel back into position.

Fig. 2.32

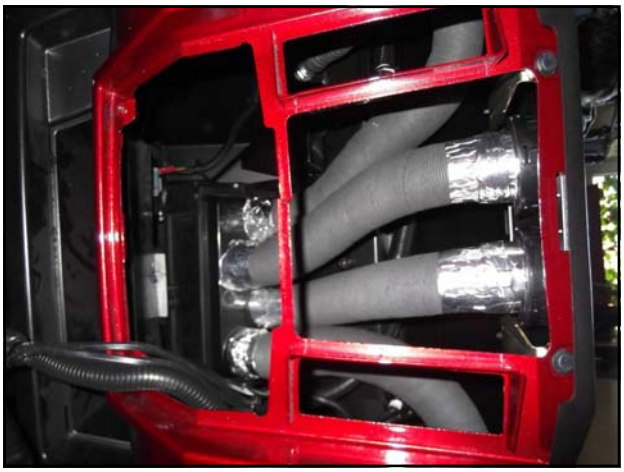


Fig. 2.33

Fig. 2.34

2.35 Cut the hole for hose into the central floor tunnel cover and install cover back to position.

Fig. 2.35

It is very important to bleed the air out of the UTV's engine cooling system. Incomplete bleeding of the cooling system can result in engine damage. If you do not have sufficient experience with this process, we strongly recommend professional assistance. We are not responsible for damage when the cooling system is bled incompletely. Please note that the additional heater system will absorb more than 2 liters of coolant fluid.

1. Important: After the heating system is installed, check the system for leaks. Turn on the electric vent switch and confirm that the engine is cold. Start the engine, open the bleeding valve and wait until the engine warms up. Always check engine temperature –if it overheats turn off engine.
2. To achieve engine operating temperature, depress the accelerator to increase the engine RPM. This will increase the pressure and flow of the water pump forcing more coolant through the heater. After operating temperature is reached, turn off engine and open the bleeding valve. Trapped air should come out from heater system through the bleeding valve. Repeat this procedure until heater/cooling system is completely bled out.

It is important to check the coolant level regularly at least 4-5 times during the first several days of operation and fill as necessary until the coolant level has stabilized. The heater will draw and retain coolant, sometimes at the expense of coolant to the engine. This can cause engine overheating if not managed properly.

SERVICE PARTS

Electric Valve
p/n: 9SV-00033

Air Vent Valve
p/n: 9SV-00034