

WORK READY™ Cab/Auxiliary Heater

Model AH-100 | Part No. EXE-200-100



Figure 1: Front View



Figure 2: Back View

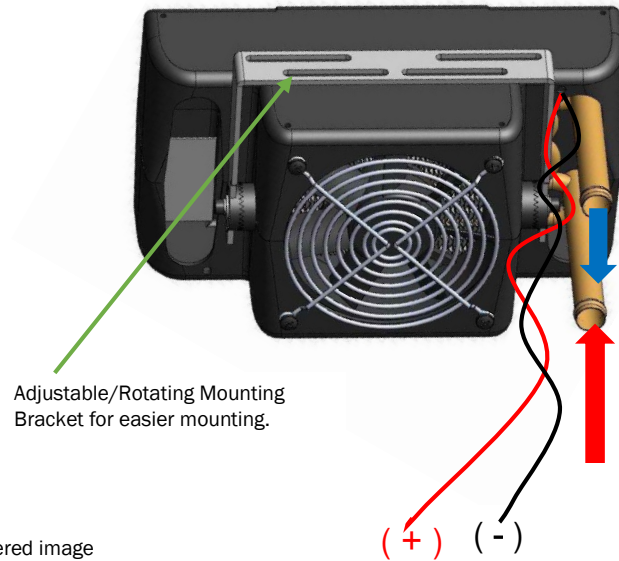


Figure 3: Installation Kit with diverter manifold – Refer to detailed and numbered image at end of instructions if needed.

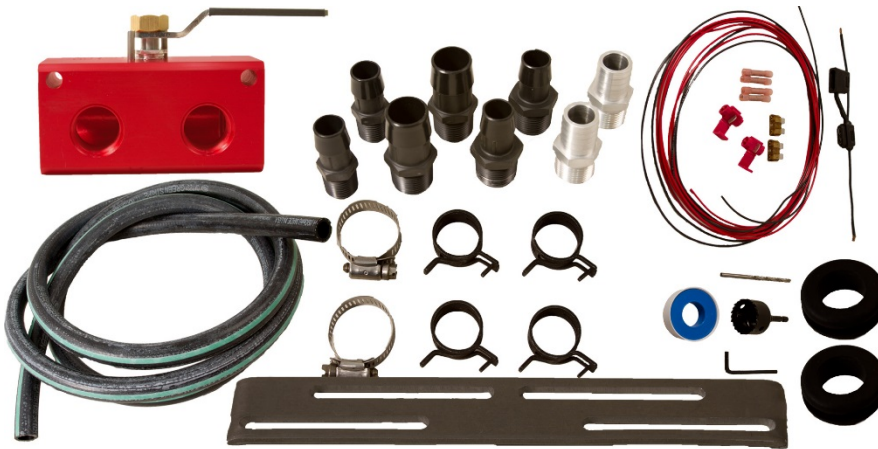


Figure 4: Diverter Manifold with barb fittings

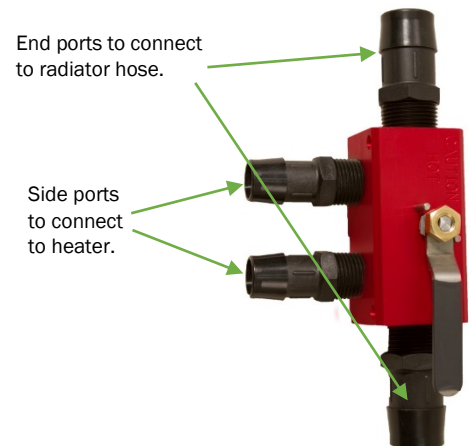
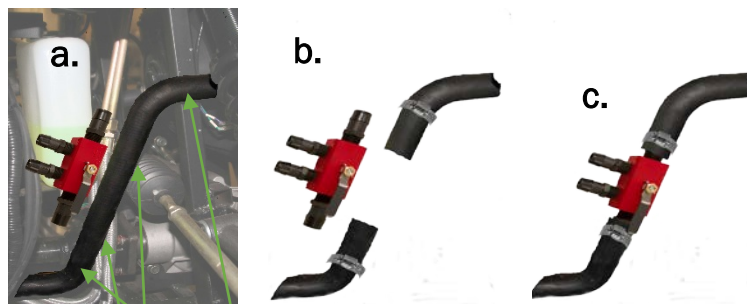


Figure 5: Installation of diverter manifold in the radiator hose



Cut hose approximately here

Apply pinch pliers here

Caution: Make sure there is clearance to turn the lever on the diverter manifold.

Figure 6: Installation of lengths of hose on each heater port



Caution: When engine is running, the diverter manifold may be hot.

Figure 7

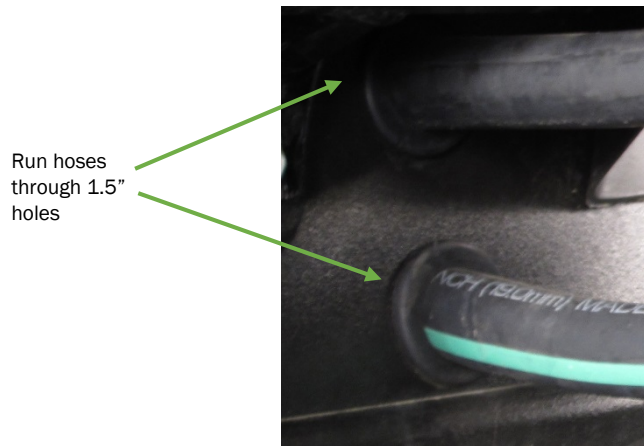


Figure 8

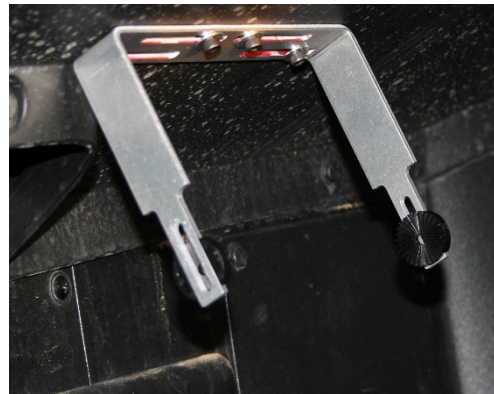
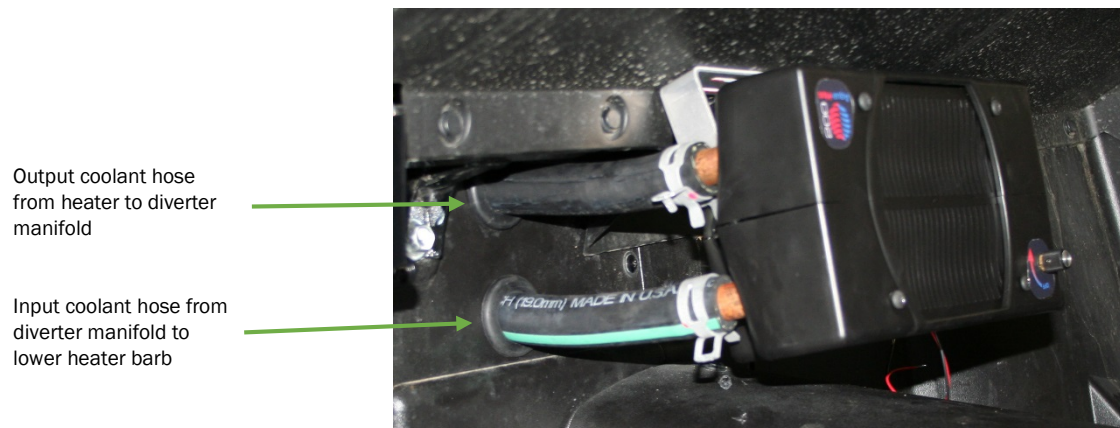


Figure 9



Installation

Note: Requires Aqua-Hot Installation Kit with diverter manifold (Figure 3: sold separately). Since each vehicle model is different, the actual location of the heater and diverter manifold may change. The following instructions are typical for the installation.

1. **Find mounting location for Cab/Auxiliary Heater.** Find the desired location for the heater, making sure:
 - a. there is clearance on both sides of the mounting surface for the mounting bracket and backing plate.
 - b. there is clearance for the two $\frac{3}{4}$ " hoses to connect to the barbs on back of heater. **Note:** If the hoses are being run through the floor, firewall, or any other surface that requires drilling, make sure clearance is available on both sides of the surface before drilling.
2. **Find plumbing location for Cab/Auxiliary Heater.** Find a plumbing location for the diverter manifold. **Note:** The suggested location is in the radiator hose running from the engine to the radiator. However, radiator hoses are routed differently on every model, so the plumbing location of the diverter manifold varies with each vehicle model.
 - a. Make sure the diverter manifold won't interfere with any other components.
 - b. Make sure there is room for two $\frac{3}{4}$ " heater hoses to run from the heater location to the diverter manifold.
3. **Drill mounting bracket mounting holes and two heater hose holes (if necessary).**
 - a. Hold heater in position and mark the location of the mounting bracket holes. Drill the mounting bracket holes using the #9 drill bit supplied in installation kit (Figure 3).
 - b. If routing the electrical wires through the mounting surface, drill one additional hole near the mounting bracket.
 - c. If the two hoses connecting to the barbs on the back of the heater must be run through the firewall, floor, or other surface, tape the hole template to the mounting surface. Drill each hole with the 1.5" hole-saw supplied in installation kit (Figure 3).
 - d. Insert the rubber grommets into the 1.5" holes, supplied in installation kit (Figure 3).
4. **Assemble the diverter manifold with appropriate hose barbs (Figure 4).**
 - a. Select the two $\frac{3}{4}$ " NPT x $\frac{3}{4}$ " barb fittings and wrap the threads with two wraps of Teflon tape. Insert these fittings into the two threaded side ports of the diverter manifold.
 - b. Select the proper size barb fittings to the radiator hose on the UTV. **Note:** $\frac{3}{4}$ " NPT x $\frac{3}{4}$ " barb, $\frac{3}{4}$ " NPT x 1" barb, or $\frac{3}{4}$ " x 22mm barb are included in the installation kit (Figure 3). After selecting appropriate barbs, wrap the threads with two wraps of Teflon tape. Insert these fittings into the threaded end ports of the diverter manifold. **Note:** The diverter manifold is now ready to install in the radiator hose.
5. **Install the diverter manifold in the radiator hose that flows from the engine to the radiator (Figure 5).**
 - a. Use two pinch off pliers to clamp off coolant flow in the radiator hose, which will be cut, to prevent coolant loss. **Note:** Allow enough room between the pliers so that the assembled diverter manifold can be installed without removing the pliers.
 - b. Holding the diverter manifold against the radiator hose, measure and mark a section of heater hose to be removed (Figure 5a). Note: Remember to leave enough hose to fit over the barbs on the end of the diverter manifold without having to remove the hose pliers.
 - c. Cut and remove the marked length of radiator hose (Figure 5b).
 - d. With the section of hose removed, and before installing the diverter manifold, place one worm drive clamp on each radiator hose end and slide next to the pinch off pliers (Figure 5b).
 - e. Insert the barbs on the end of the diverter manifold into the two radiator hose openings (Figure 5c), making sure the diverter manifold is oriented in the desired direction for connection to the heater.
 - f. Slide the clamps on the radiator hose over the barbed fittings on each end of the diverter manifold and tighten (Figure 5c).
6. **Install lengths of hose on each heater port on the side of diverter manifold (Figure 6).** **Caution:** When engine is running, the diverter manifold may be hot. Using the #29 constant tension hose clamps included in the installation kit (Figure 3), install a length of hose on each heater port located on the side of the manifold (Figure 6).
7. **Run hoses.** If grommets were used: Run the hoses through the grommets of the 1.5" holes. Note: Use soapy water as needed to get the hose through grommets (Figure 7).
8. **Install mounting bracket and backing plate (Figure 8).** Remove the bracket from the heater and install to the mounting wall with the backing plate and hardware in this order: Socket Head, Star Washer, Small Washer, Mounting Bracket, Wall, Backing Plate, Fender Washer, Nylock Nut.

9. Attach cab/auxiliary heater (Figure 9).

- a. Loosely place the heater into the mounted bracket and install the heater hoses onto the heater using the #29 constant tension hose clamps included in the installation kit (Figure 3).

Note: The hose feeding the hot water into the heater must be connected to the lower barb on the back of the heater (Figure 9). The hose returning the cooled water to the diverter manifold must be attached to the upper barb on the back of the heater (Figure 9).

- b. Reinstall the heater onto the mounting bracket and adjust to desired angle. Tighten the bolts.
- c. Remove the hose pliers from the radiator hose.

10. Connect wires of cab/auxiliary heater. Find a location to tap into a powered wire. Power that is controlled by the ignition switch is recommended. **Note:** * indicates the item is included in installation kit (Figure 3).

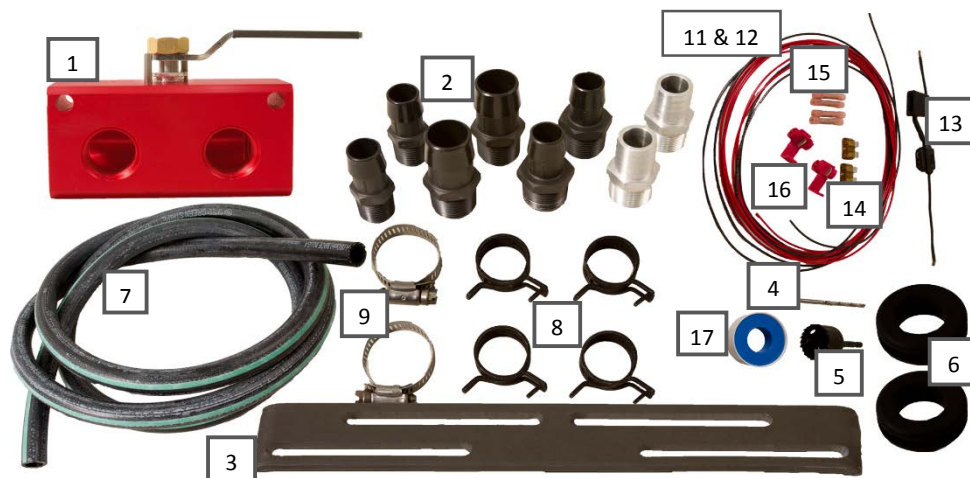
- a. Use the tap splices* to connect the fuse holder* wire to the power source and the black wire to a ground location. **Note:** Chassis ground will work.
- b. Use a butt splice* to attach the red wire to the fuse holder* wire.
- c. Run the length of wire in a secured location to the back of the heater. Trim the excess wire.
- d. Use the butt splices* to connect the red wire to the heater's red wire and the black wire to the heater's black wire.
- e. Install the 5A fuse* in the holder and cap.

11. Test functionality and connections. Turn the vehicle on and test power to the heater. Run the vehicle for a while with the valve in the open position, and in the closed position, to make sure fluid enters the heater. Check all connections to make sure there are no leaks.

NOTE: Top the overflow bottle off as necessary.

Your Aqua-Hot Cab/Auxiliary heater is now ready to use!

Installation Kit with Diverter Manifold | Part No. PLX-200-150



Item	Qty	Description
1	1	Diverter Valve
2	1	Barbed Fitting Assortment (8 pieces)
3	1	Backing Plate
4	1	Drill Bit, #9
5	1	Bit, hole saw, 1.5"
6	2	Grommet, 1" bore x 1/4" groove
7	12'	3/4" Heater Hose
8	4	Clamp, constant tension, #290

Item	Qty	Description
9	2	Clamp, worm drive
11	10'	Red Wire, 20 ga
12	10'	Black Wire, 20 ga
13	1	Fuse, inline holder, blade type
14	2	5 amp Fuse, spade type
15	4	Connectors, butt end 18-22 ga
16	2	Connectors, tap splice, 18-22 ga
17	1	Roll, Teflon Tape



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