

PowerAir™ ACTIVATOR FOR AIR BOOSTER

CAUTION: INSTALL IN ACCORDANCE WITH CEC, NEC & LOCAL INSPECTION AUTHORITIES

1. Locate a suitable mounting position for the air pressure switch. This should be on the furnace enclosure or on a solid structure close to the furnace. The switch must be mounted such that the diaphragm is vertical. Mark the four mounting screw holes using the switch mounting plate as a template. The screw holes can be pre-drilled using a 1/8" or smaller drill bit. Use care when drilling any holes to avoid damaging any internal structures. (See Figure 1).
2. Mount the air pressure switch at the selected location (See Figure 1).
3.
 - a. If the furnace DOES NOT have an air conditioner "A" coil at the warm air outlet of the furnace; drill a 1/4" hole into the warm air supply plenum of the furnace. This hole should be approximately six to twelve inches from the top of the warm air outlet of the furnace.
 - b. If the furnace DOES have an air conditioner "A" coil at the warm air outlet of the furnace; drill a 1/4" hole into the warm air supply plenum high enough above the "A" coil such that it will not contact the "A" coil when installed. Use care when drilling the hole to prevent damaging the "A" coil. (See Figure 2).
4. Insert the tube into the 1/4" hole such that the open end is pointing directly into the oncoming air flow. (See Figure 3).

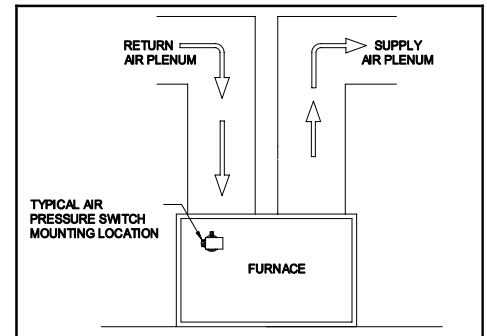


Figure 1

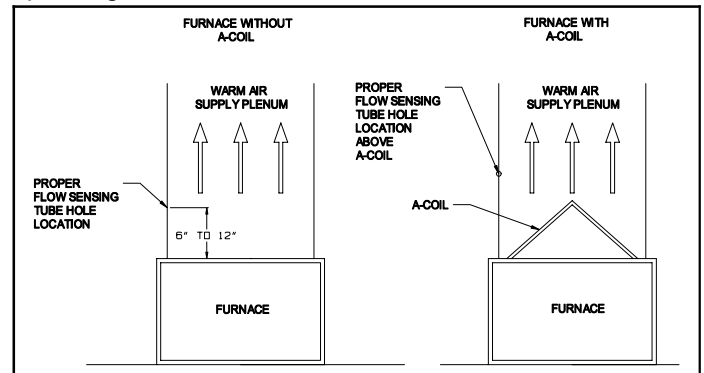


Figure 2

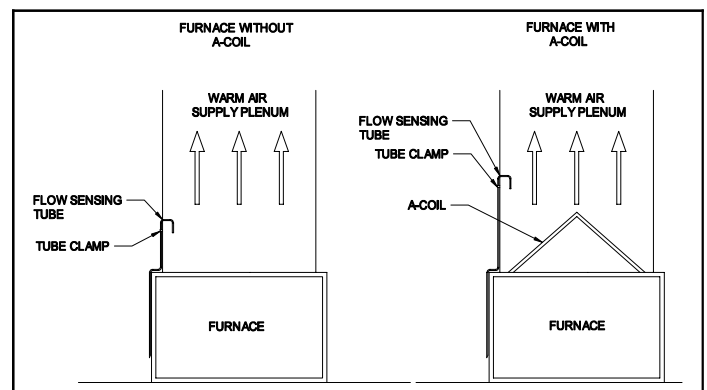


Figure 3

5. Loosen the compression nut on the positive pressure connection of the air pressure switch. Insert the straight end of the tube into the nut and tighten the nut by hand until the tube is held securely. Do not remove the pressure nut on the negative pressure connection. (See Figure 4).
6. Remove the junction box cover on the air pressure switch. (See Figure 4).
7. Refer to the wiring diagram to determine the proper wiring connections. Attach all of the wires as indicated in the diagram. Secure the box cover to the box when complete. (See Figure 5)
8. The Air Booster Activator installation is now complete. Switch the furnace power supply "ON".
9. a. Adjust the thermostat to call for heat that will activate the furnace. Check the operation sequence of the furnace burner and furnace blower. If each appears to function correctly, proceed to step 10. If the Air booster does not activate after a reasonable period of time it is possible that the air pressure switch has not detected air flow in the plenum. This will occur in a very small percentage of furnaces which have very low flow in the plenum. In this case, the next step (b) can be taken to ensure proper operation.
 - b. The air pressure switch has been installed to sense positive pressure only. Installation of an additional pressure sensing tube on the return plenum side of the furnace will allow the switch to more easily detect blower operation. Follow the same steps (steps 3 through 5) listed above for installation of the original tube, except that the additional tube will be located in the return air plenum. This additional tube is not supplied. Repeat step 9 following installation of this additional tube. (See Figure 6).
10. Adjust the thermostat such that it is no longer calling for heat. Check the shut-down sequence. The burner should cease operation first. The air-booster should shut off shortly after the blower stops.

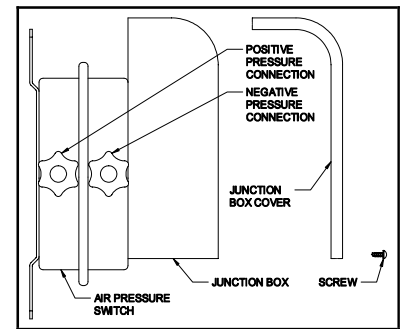


Figure 4

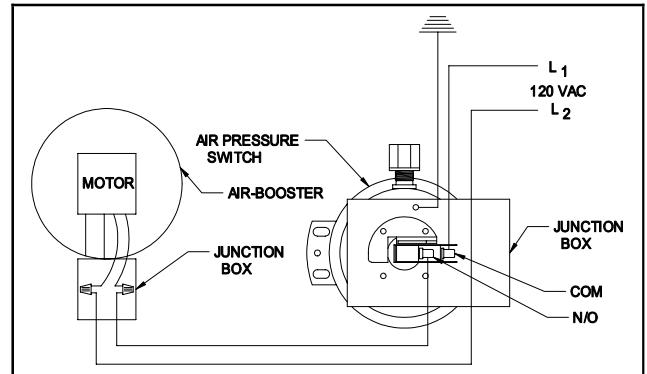


Figure 5

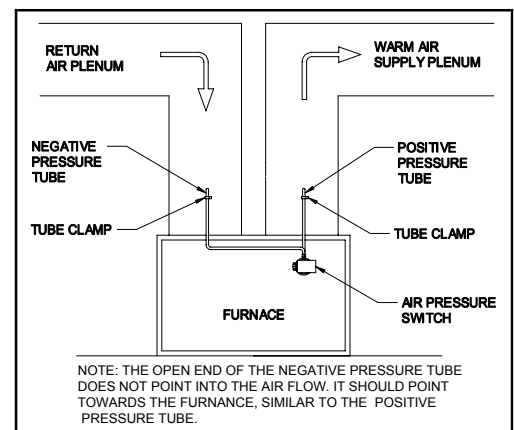


Figure 6

NOTE: The Air Booster Activator supplies electricity to the air-booster only when air flows in the plenum. This prevents air-booster operation when the blower is off.