

PROTECH™

⚠ WARNING

THESE INSTRUCTIONS ARE INTENDED AS AN AID TO QUALIFIED SERVICE PERSONNEL FOR PROPER INSTALLATION OF THIS ASSEMBLY. READ THESE INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING INSTALLATION. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN FIRE, ELECTRICAL SHOCK, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

⚠ WARNING

Verify that the replacement vacuum switch assembly matches the original vacuum switch assembly in pressure set point, terminal configuration and terminal size. Pressure settings are not field-adjustable. If the set points do not match you will need to order the correct replacement. **Using a replacement switch with different characteristics from the original could cause the furnace to operate when insufficient combustion air is available, resulting in serious injury or death.**

⚠ WARNING

For furnaces where the vacuum switch assembly is attached to the heat exchanger or center panel (not to the furnace cabinet), it is critical that no holes be left unplugged. Do not remove screws from the center panel or heat exchanger and leave the screw hole open. A screw must be inserted into the hole regardless of how the vacuum switch assembly is mounted. **Failure to plug a hole in the center panel or heat exchanger could result in improper operation or no operation of the furnace.**

⚠ WARNING

For furnaces where the vacuum switch assembly is attached to the heat exchanger or center panel (not to the furnace cabinet), do not drill new holes in the heat exchanger or center panel. **Drilling into the center panel or heat exchanger could puncture the heat exchanger tubes, producing high carbon monoxide levels and causing serious injury or death.**

⚠ WARNING

It is critical that hoses and wiring be routed so that they will NOT come in contact with hot surfaces such as the heat exchanger or burner assembly. If necessary, use the wire ties provided to route the hoses and wires away from any potentially hot components. Avoid using wire ties on the hoses if possible. If a wire tie is required to keep a hose from contacting a hot surface, make sure that the hose is not kinked or pinched when the installation is complete. **Failure to keep wires, hoses and other potentially combustible materials away from hot surfaces in the furnace could result in fire causing property damage, serious injury or death.**

⚠ CAUTION

Caution must be used to identify the “C” “NO” and “NC” (as applicable) terminals before installing quick connect electrical fittings to the vacuum switch. Wiring on the furnace is color coded. When removing the old pressure switch, note the relation of the wiring colors to the terminals. If the old wires will not reach the terminals on the new switch without stretching them, use the wire extenders provided to avoid stressing the electrical connections.

⚠ CAUTION

Pressure switch(es) must be mounted with the diaphragm(s) in a vertical orientation. In other words, the flat edges of the pressure switch must be vertical (up and down).

⚠ CAUTION

Some furnaces utilize a 1/8” diameter vacuum hose. The replacement vacuum switch assembly will only terminate a 3/16” hose. In this case, cut a short section of the 3/16” diameter hose provided, and attach it to the vacuum switch fitting. Utilize the adapter provided to transition to the 1/8” hose. Cut either or both hoses as necessary to insure no pinching, kinking or interference with other components. **Do not force 1/8” hose onto the pressure switch terminal or use 3/16” hose on 1/8” fittings.**

⚠ CAUTION

Vacuum hose fittings may be in different locations on the replacement vacuum switch. If the old hose will not reach the new fitting, use the additional hose provided to replace the entire length of hose. **Cut hose to length and avoid pinching or kinking the hose.**

The replacement vacuum switch assembly provided will have mounting holes that match the existing mounting holes on the old vacuum switch assembly (in addition to other mounting holes). Locate the mounting holes that match those of the old assembly and use these same mounting holes to orient the new pressure switch assembly in such a way that the pressure tap, electrical terminals and etc. are as closely matched to the original configuration as possible.

FOR FURTHER INFORMATION CONTACT YOUR LOCAL DISTRIBUTOR OR SERVICE REPRESENTATIVE.