

# INSTALLATION INSTRUCTIONS FOR REPLACING THE MAIN WIRE HARNESS

Kit Contents: 1-Main wire harness, 5-screws, 5-cable clamps  
**IMPORTANT:** For correct water heater operation, it is essential that the Main Wire Harness be properly installed. If you lack the necessary skills to properly perform the installation, you should not proceed, but get help from a qualified technician.  
 Tools Needed: 5/16" nut driver, wire cutters

## Removing the Wire Harness:

1. Turn off the gas supply to the water heater at the manual gas shut-off valve. This valve is typically located beside the water heater. Note the position of the shut-off valve in the open position then proceed to turn it off (Figure 1).
2. On the lower front of the water heater locate the gas control valve/thermostat (Figure 1).
3. Before performing any maintenance it's important to move the ON/OFF switch on the gas control valve/thermostat to the "OFF" position to turn off the water heater (Figure 2).
4. Unplug the transformer from the wall outlet (Figure 3).
5. Disconnect the existing wire harness from the flue damper on the top of the unit by pressing the snap connector and pulling it loose (Figure 4). Using wire cutters, cut the disconnected wire harness close to the unit and discard (Figure 8).
6. Remove the outer door.
7. Disconnect the existing wire harness from the transformer at the Power Supply Transformer Connector (Figures 1&3).
8. Disconnect the existing wire harness located on the bottom of the gas control valve/thermostat (Figure 5).
9. Disconnect the flag terminals from the thermal switch located on the lower front of the unit (Figure 6).
10. Using a 5/16" nut driver, remove the cable clamp holding the lower part of the wire harness to the water heater jacket (Figure 1). Using wire cutters, cut the disconnected wire harness close to the unit and discard (Figure 8).

## Installing the New Wire Harness:

1. Orient the new main wire harness with the yellow wires on the bottom, toward the gas control valve/thermostat.
2. Connect the new wire harness to the flue damper by inserting the snap plugs into the terminals on the side of the flue damper (Figure 4).
3. Connect the two pin connector on the harness into the transformer at the power supply transformer connector (Figure 1).
4. Connect the last snap plug terminal of the new wire harness to the gas control valve/thermostat (Figure 5) and the flag connectors to the thermal switch (Figure 6).
5. Check all main wire harness connections to ensure they are fully connected to the heater.
6. Using a 5/16" nut driver, attach the new wire harness to the side of the unit, evenly along the water heater jacket, with the cable clamps and screws provided (Figure 7).
7. Plug the electric transformer into the wall outlet (Figure 3).
8. Turn the gas supply back on to the gas control valve/thermostat at the manual gas shut-off valve (Figure 1).
9. To restart the water heater, follow the directions on the "Lighting and Operating Instructions" label located on the front of the water heater near the gas control valve/thermostat.

## WARNING

### Electric Shock Hazard



Plug into a 3 prong outlet.  
 Do not remove ground prong.  
 Do not use an adapter.  
 Do not use an extension cord.  
 Failure to follow these instructions can result in death, fire, or electrical shock.



