

## Installation, Operation and Maintenance Instructions

### IMPORTANT: Save These Instructions!

**Description**

The repair kit is for repairing heating cable that is damaged during installation of the heating cable/mat. The kit includes jumper wires to bridge the heating element after the damaged section is removed. The kit contents are sufficient to repair one damaged section up to 5 inches long. If more than 5 inches of cable has been damaged, the mat must be replaced.

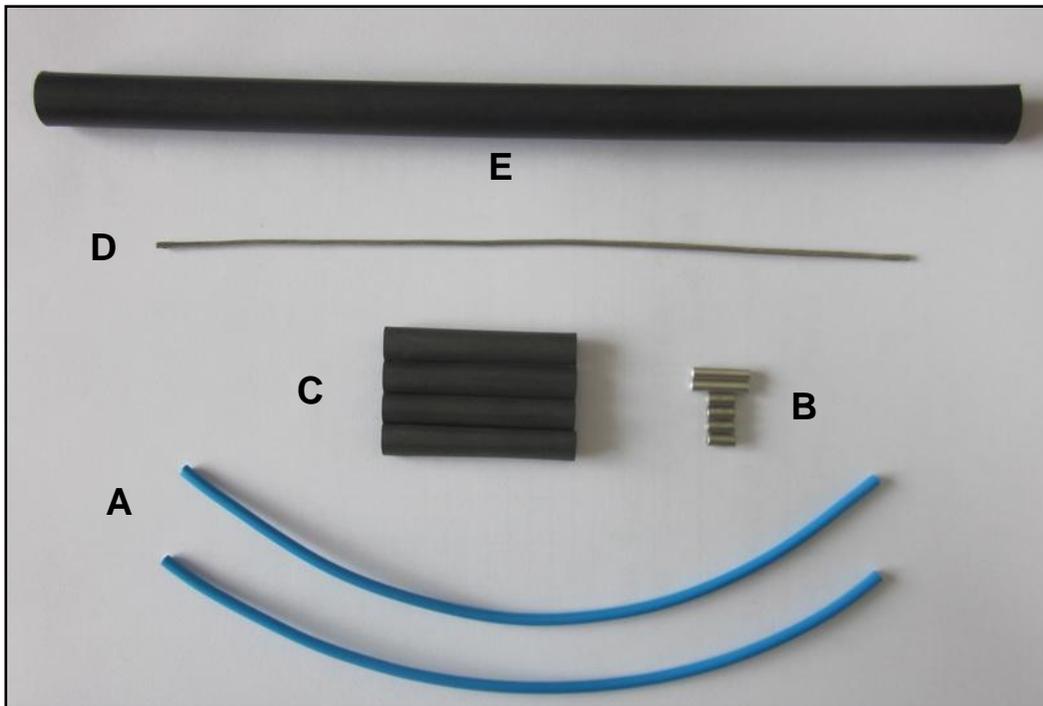
**Tools Required**

- Wire Strippers 16-26 AWG
- Gloves
- Scissors
- Crimp tool
- Heat gun
- Multimeter (capable of 200K ohms)

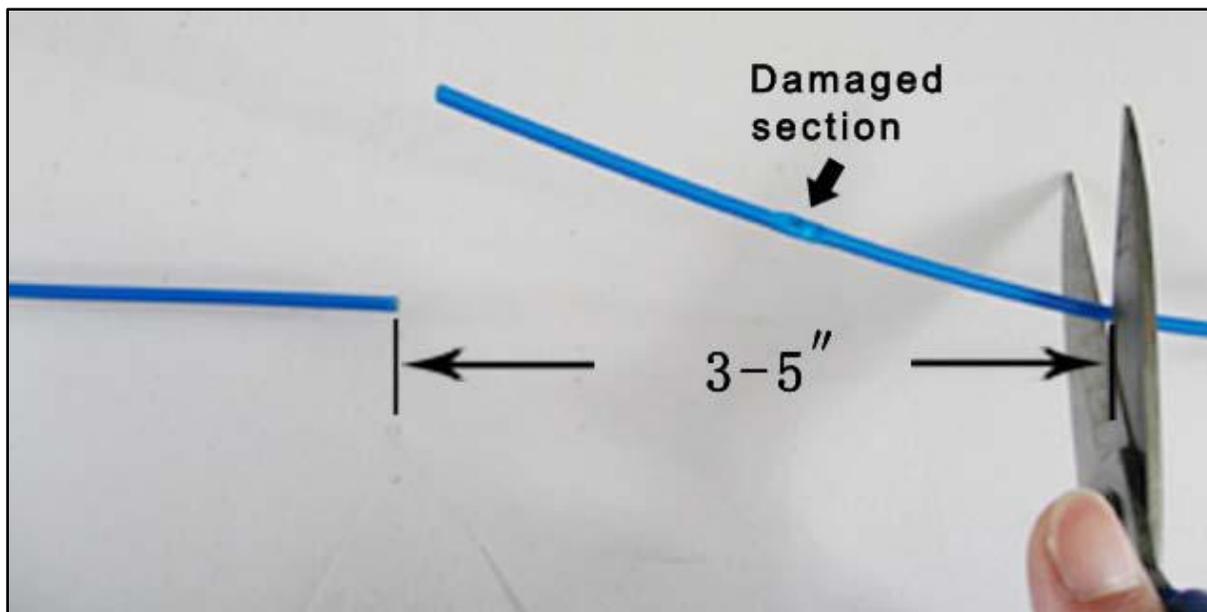
**⚠ WARNING: ELECTRIC SHOCK HAZARD**

Disconnect all power before installing or servicing the heating cable and accessories. FC heating cable must be grounded properly in accordance with the National Electrical Code (NEC). Failure to comply can result in personal injury or property damage. Only a qualified licensed electrical contractor shall install and service of FC heating cable and accessories, otherwise the warranty is voided.

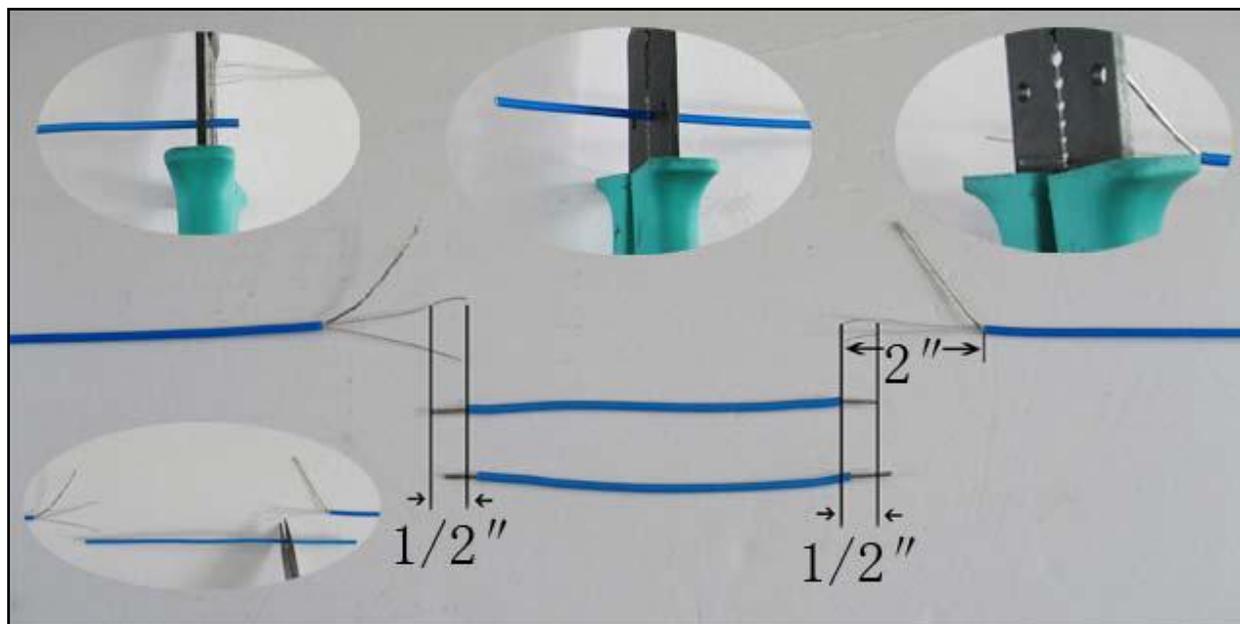
Note:-All electrical wiring, including Ground Fault Circuit Interrupters (GFCI), must be done according to the NEC and local codes by a qualified installer.



Item	Qty	Description
A	2	Jumper wires
B	6	Connectors
C	4	Small heat shrink tubing
D	1	Ground Wire (non-insulated)
E	1	Large heat shrink tubing



- 1** Remove at least 3-5 inches of heating cable including the damaged section leaving two protruding ends of heating cable.



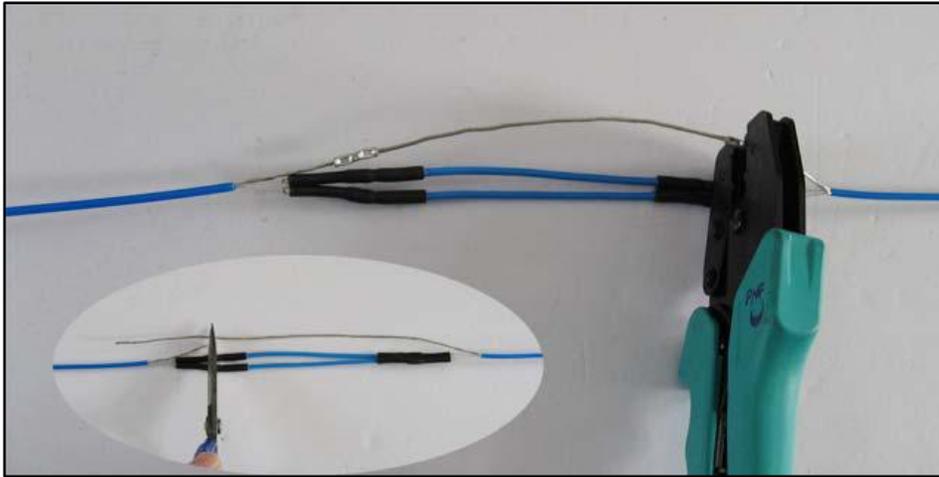
- 2** Using wire strippers carefully strip the heating cable and the jumper wires. Slide the large heat shrink tube over the heating cable to be applied with a heat gun in the last step.



- 3** Using the crimp tool and connectors carefully connect the heating cables to the jumper wires and don't forget slide the heat-shrinkable tubes onto each jumper wire.



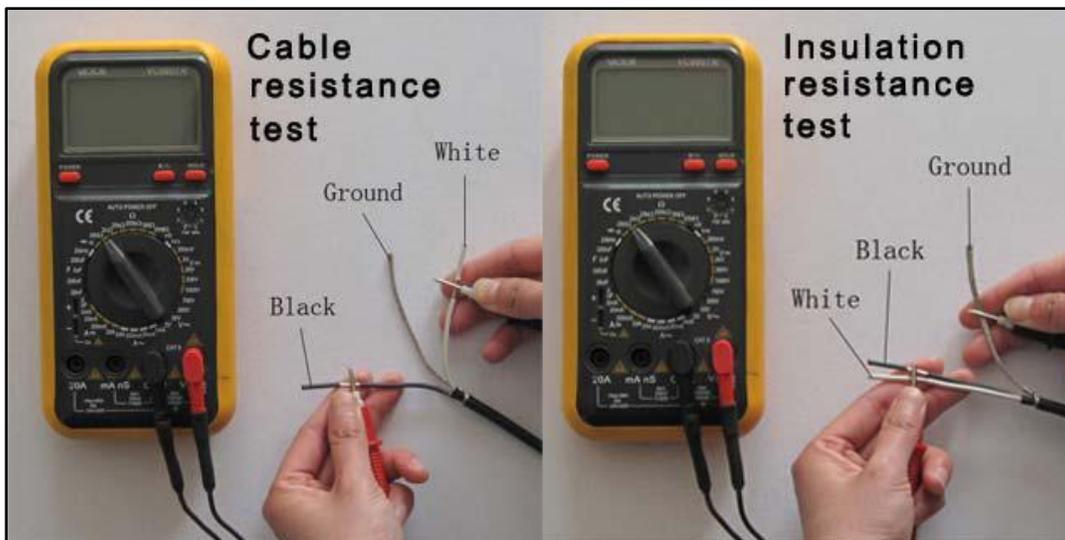
- 4** Center the 4 small black heat-shrinkable tubes over the connectors and using the heat gun shrink in place.



- 5** Cut ground jumper wire to length, and using the crimp tool and connectors carefully connect the ground wires to the jumper wire.



- 6** Slide the large heat shrink tube over the entire splice and apply heat until the tube has completely covered the splice.



- 7** Test the heating cable resistance and compare the reading to the cable specified. Set your multimeter to the 200K ohm range and test the insulation resistance, make sure the meter reads “Open” or “OL”.