

## REPLACING CONTROL BOX

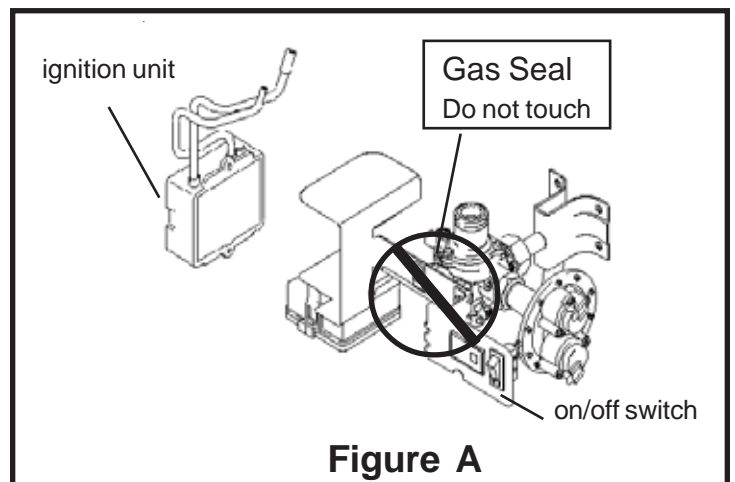
MODELS: 125X, 125FX (ON BACK)



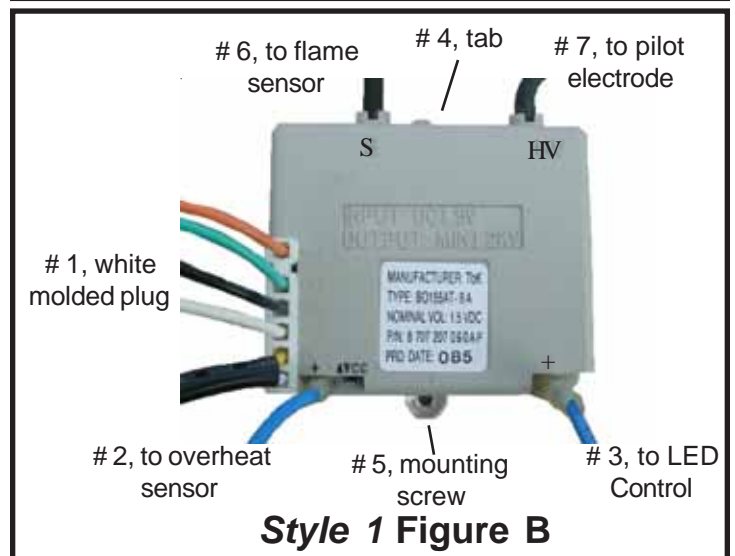
### WARNING

LP & NG ARE EXTREMELY FLAMMABLE SO TAKE EXTRA PRECAUTIONS WHEN PERFORMING ANY WORK TO THE HEATER

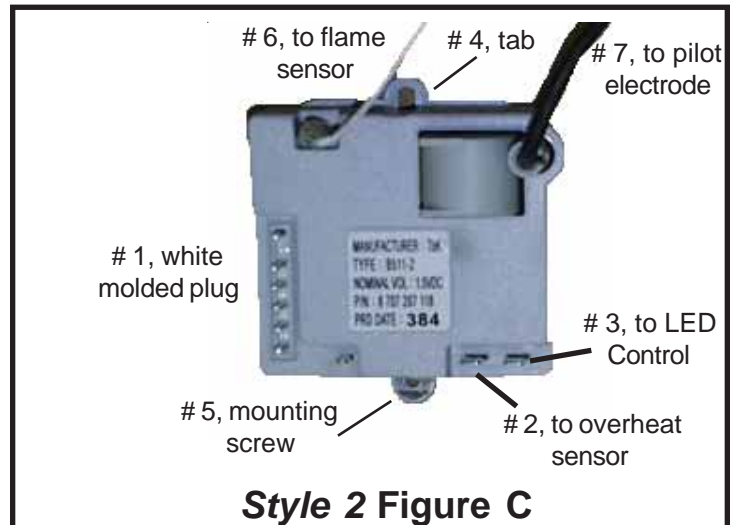
1. Move on/off switch to 'O' (off) position (Figure A), remove front cover from heater by pulling off flow knob and unscrewing collar, then lift up and pull cover off.
2. Locate grey ignition unit (Figure A).
3. Determine style of replacement. Style 1 (Figure B) or Style 2 (Figure C).
4. Remove ignition unit mounting screw (Figure B and C #5), ignition unit will now be free from mounting bracket.
5. Remove the following wires one at a time and install on new ignition unit.
  - a. white plastic molded plug with 6 wires (Figure B and C #1).
  - b. wire and connector that goes to overheat sensor on terminal marked '+' on lower left hand corner of ignition unit (Figure B #2). On Style 2 goes to terminal shown (Figure C #2).
  - c. wire and connector that goes to LED control on terminal marked '+' lower right hand corner of ignition unit (Figure B #3). On Style 2 goes to terminal shown (Figure C #3).
  - d. thick black wires from top of ignition unit being replaced need to be removed from flame sensor and pilot electrode. They are not removable from ignition unit. See Figure D.
6. Old ignition unit is now free, mount new ignition unit by inserting mounting tab (Figure B and C #4) into bracket and reinstall mounting screw (Figure B and C #5) to hold ignition unit to bracket.
7. Style 1--Thick black wire from new ignition unit marked 'S' (Figure B #6) goes to flame sensor (Figure D #1). Thick black wire from new ignition unit marked 'HV' (Figure B #7) goes to pilot electrode (Figure D #2).  
 Style 2--Thin silver wire from new ignition unit (Figure C #6) goes to flame sensor (Figure D #1). Thick black wire from new ignition unit (Figure C #7) goes to pilot electrode (Figure D #2).
8. Verify all connections are correct.
9. Move on/off switch to 'I' (on) position, initiate water flow through heater and heater will light.
10. Replace front cover.



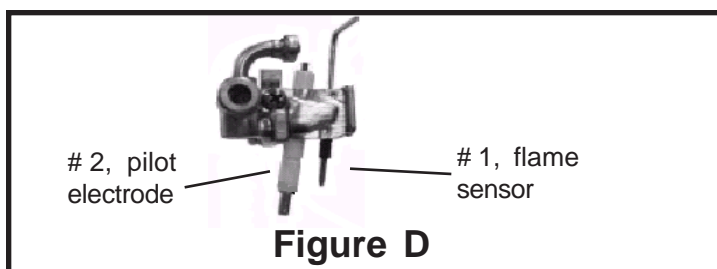
**Figure A**



**Style 1 Figure B**



**Style 2 Figure C**



**Figure D**

## REPLACING CONTROL BOX

1. Move on/off switch to 'O' (off) position (Figure A), remove front cover from heater by pulling off flow knob and unscrewing collar, then lift up and pull cover off.
2. Locate electronic control box (Figure A). Remove three bracket screws (Figure A) holding electric control box bracket, gently move out of way to access electronic control box.
3. Determine style of replacement. Style 1 (Figure B) or Style 2 (Figure C).
4. Remove electronic control box mounting screw (Figure B and C #4), electronic control box will now be free from mounting bracket.
5. Remove the following wires one at a time and install on new electronic control box.
  - a. white plastic moulded plug with 6 wires (Figure B and C #1).
  - b. wire and connector that goes to overheat sensor and electric control box on terminal marked + lower right hand corner of electronic control box (Figure B #2). On style 2 goes to terminal shown (Figure C #2)
  - c. thick black wires from top of ignition unit being replaced need to be removed from flame sensor and pilot electrode. They are not removable from ignition unit. See Figure D.
6. Old ignition unit is now free, mount new ignition unit by inserting mounting tab (Figure B and C #3) into bracket and reinstall mounting screw (Figure B and C #4) to hold ignition unit to bracket.
7. Style 1--Thick black wire from new ignition unit marked 'S' (Figure B #5) goes to flame sensor (Figure D #1). Thick black wire from new ignition unit marked 'HV' (Figure B #6) goes to pilot electrode (Figure D #2).  
 Style 2--Thin silver wire from new ignition unit (Figure C #5) goes to flame sensor (Figure D #1). Thick black wire from new ignition unit (Figure C #6) goes to pilot electrode (Figure D #2).
8. Verify all connections are correct.
9. Move on/off switch to 'I' (on) position, initiate water flow through heater and heater will light.
10. Replace front cover.

