

**NY Thermal Inc.**  
 Tel: (506) 657-6000  
 Toll Free: 1-800-688-2575  
 Fax: 1-506-432-1135  
 Web: www.nythermal.com  
 Email: info@nythermal.com

## 85040 External Spark Transformer Kit

### Applicable Boiler Models

- Tx51-151
- Tx151C

### Kit Contents

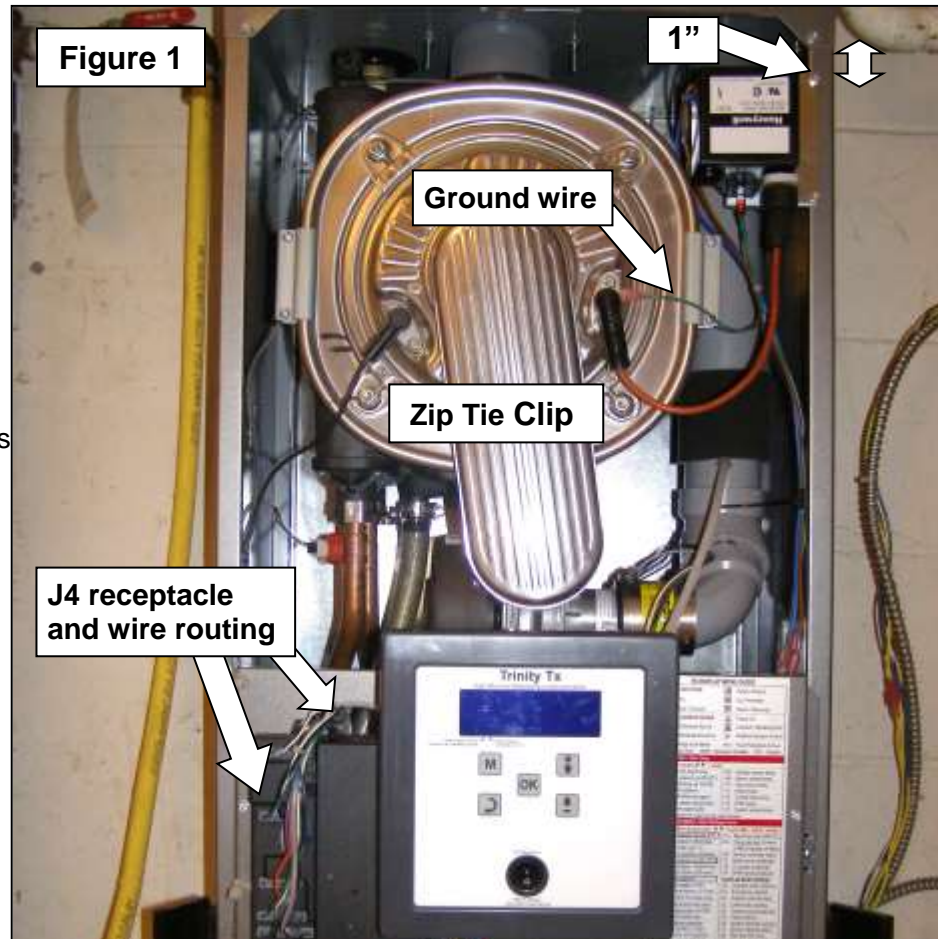
- 83707(85054) Ignition Coil
- 83724 Spark igniter Wire
- Ignition Coil Mounting Bracket with nut inserts
- 81428 drill point screws (2)
- 83817 10-24 Machine Screws (2)
- 53054 Zip Ties (8)
- 84738-1 Ignition Electrode Tx
- 86364 External Spark Ignition Wire Harness
- 84813 Zip Tie Clip

### Tools required:

- Drill with 1/4" nut driver or 1/8" drill bit
- #2 Phillips Screw Driver
- Utility knife or Side cutters
- Measuring Tape

### CAUTION

**Shock hazard:** Ensure that the spark electrode cable is securely fastened before powering the boiler, failure to do so will cause a boiler malfunction and may result in electric shock.



### Installation Instructions:

- 1) Turn on the boiler and wait for it to load: then press and hold the M and OK buttons until **2-01** is displayed.
- 2) Use the arrow keys to scroll to **2-32**, and then press OK.
- 3) Use the arrow keys to change the setting from **OFF** to **ON** and press OK.
- 4) Turn off power and gas to the boiler.
- 5) Mount the Ignition Coil in the upper right of the boiler cabinet as shown using the drill point screws provided. **Refer to Figure 1.**
- 6) Remove the old spark igniter, spark ignition wire and the green ground wire from the boiler and install the provided spark electrode.
- 7) Remove the blank plug in receptacle J4 and then route the grey plug on the new wire harness through the top hole of the control panel and plug it into the J4 receptacle.
- 8) Using the supplied zip ties secure the new wire harness to the existing wire harness so that opening and closing the control panel will not pinch or chafe the wires.
- 9) Place the metal tie down clip on the inside edge of the boiler side approximately 6" below the ignition coil and use the zip tie clip to secure the wires so that they are held away from the burner door. **Refer to Figure 1.**
- 10) Connect the orange spark igniter wire to the ignition coil and the spark igniter and the green ground wire to the spark igniter. **Refer to Figure 1.**
- 11) Operate the boiler and confirm that it lights consistently and smoothly.