



October 4, 2017

Technical Bulletin: Trinity Tx – Ignition Transformer Removed from Controller

Product Series: Trinity Tx

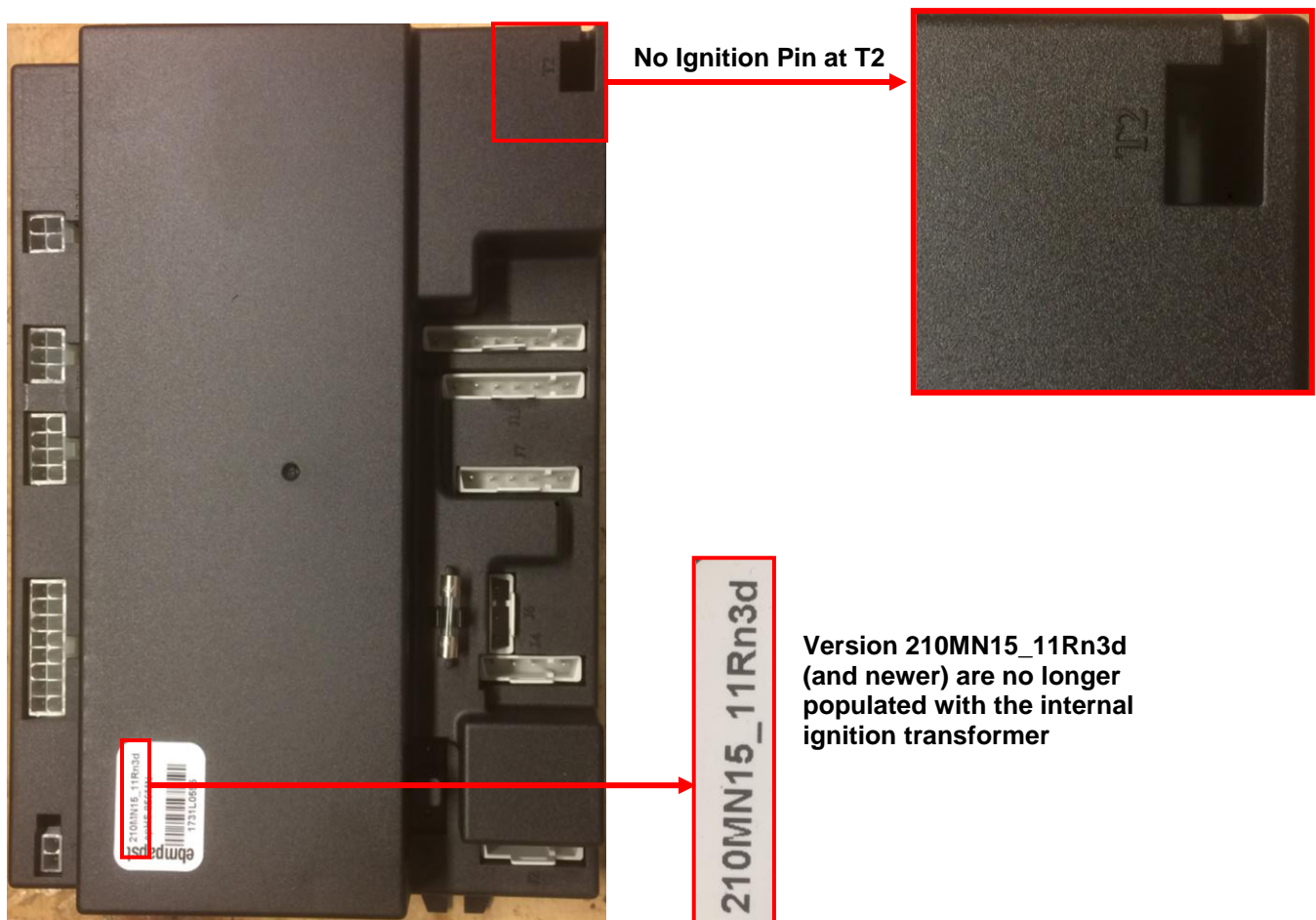
Models: Tx51, Tx81, Tx101, Tx151, Tx200 Tx151C & Tx200C

Part #: 84712-1 (replacement controller)

Update: Controller no longer populated with an internal ignition transformer

Implementation Date: October 4, 2017

Replacement controllers for Trinity Tx boilers are no longer populated with an internal ignition transformer (see figure below). The internal ignition transformer provided the ignition energy source for Trinity Tx boilers manufactured prior to December 12, 2013 (prior to s/n 72171); later boilers use a high energy ignition transformer that is external to the boiler controller. Models manufactured prior to December 12, 2013, can be update to use the external high energy ignition transformer, by installing NTI kit # 85040 (see enclosed). The application of kit 85040 is necessary when replacing the boiler controller on these early model Tx boilers.



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85040 External Spark Transformer Kit

Applicable Boiler Models

- Tx51-151
- Tx151C

Kit Contents

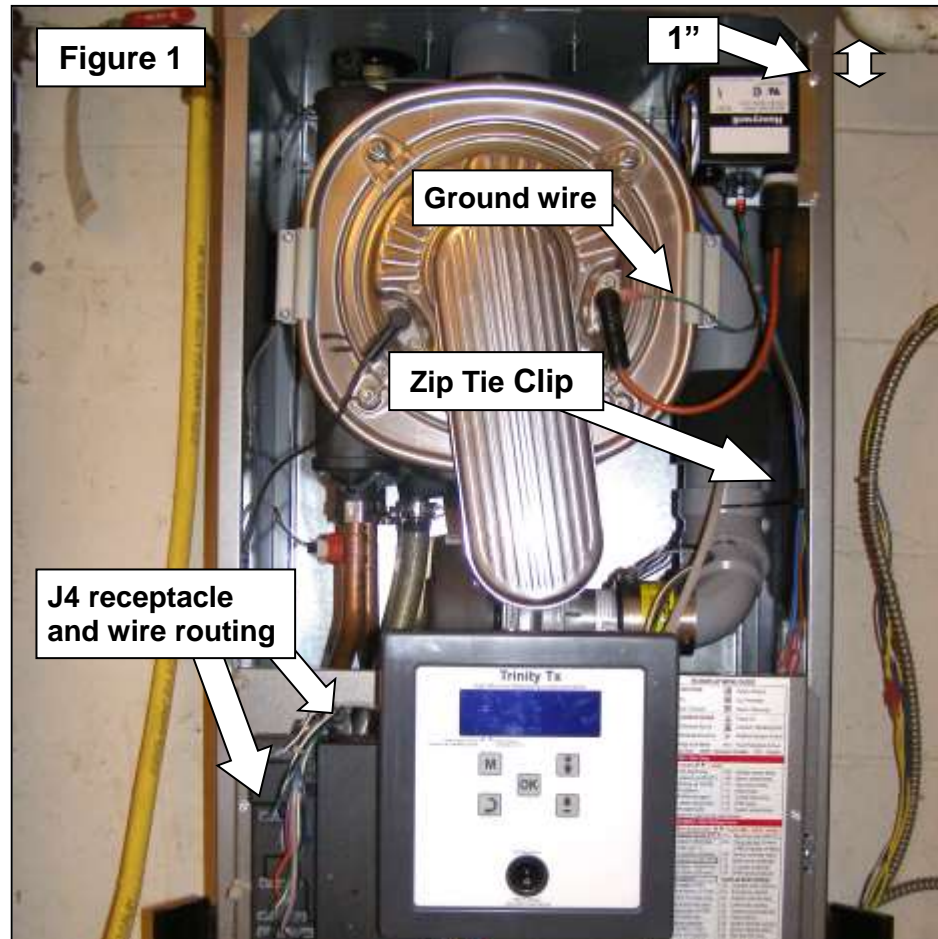
- 83707 Ignition Coil
- 83724 Spark igniter Wire
- Ignition Coil Mounting Bracket
- 81428 drill point screws (2)
- 83817 10-24 Machine Screws (2)
- 53054 Zip Ties (8)
- 84738 Ignition Electrode Tx
- 84739 Ignition Electrode Gasket
- External Spark Ignition Wire Harness
- 84813 Zip Tie Clip

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.