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84712-1 Ignition Controller 210MN Kit (Tx) (210MN1411RXXX)

Applicable Boiler Models

- Vmax All models
- Tx all models
 Tx boilers prior to serial number 72170 **not equipped with the external spark generator will require part 85040 in addition to the Ignition control.**

Kit Contents

- 1 x 84712 Ignition Controller EBM, 210MN
- 1 x 84878 Display Menu Guide (Tx Models)

Tools Required

- 1/4" Nut Driver

Replacement Instructions

- 1) Turn off power and gas to the boiler.
- 2) Remove the existing controller.
- 3) Install the replacement controller.
- 4) For boilers **not** equipped with an external spark generator see **Additional Instructions** below.
- 5) Follow the Controller Set-up Instructions (next page).
- 6) TX boiler only; Install the new Display Menu Guide (Figure 2).

Figure 1



Appliance Type Setting - Failure to properly set the appliance type will cause the boiler to operate incorrectly and may lead to property damage.

Appliance Type Setting

The Appliance Type setting is retained in the boiler controller.

The setting determines certain operating characteristics specific to a particular boiler model, such as combustion blower RPM and circulator operation; see Table 1 for a list of Appliance Types and corresponding boiler models.

Boiler appliance Type	Fuel Type
1 = Tx51	Natural or LP Gas
2 = Tx81	Natural or LP Gas
3 = Tx101	Natural or LP Gas
4 = Tx151	Natural or LP Gas
5 = Tx151C	Natural or LP Gas
6 = Tx200	Natural or LP Gas
7 = Tx200C	Natural or LP Gas

Boiler appliance Type	Fuel Type
8 = Vmax 110 NG	Natural Gas
9 = Vmax 110P NG	Natural Gas
10 = Vmax 153 NG	Natural Gas
11 = Vmax 153P NG	Natural Gas
12 = Vmax 110 LP	LP Gas
13 = Vmax 153 LP	LP Gas
14 = Vmax 110P LP	LP Gas
15 = Vmax 153P LP	LP Gas

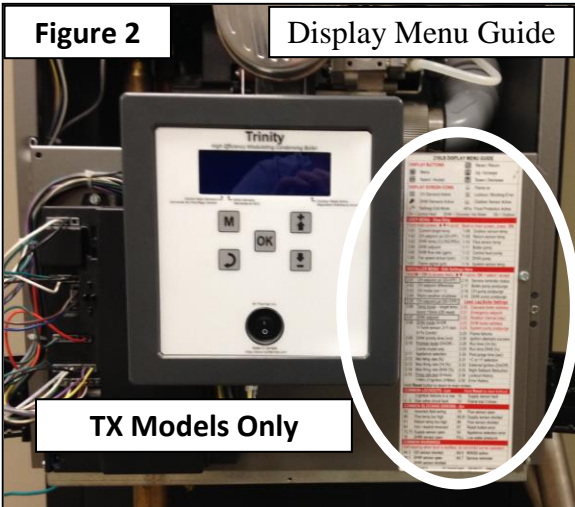


Table 1 - Appliance selection (type) – indicates what boiler model the controller is configured to operate with: Controller Set-up Instructions

The replacement ignition controller is factory set with an Appliance Type setting of zero (0); upon replacement of the control the display will prompt you to set the appliance type, i.e. “tYPE 0” will automatically be displayed on the screen (see Notice below). Adjust to the applicable Appliance Type setting (see Table 1) using the UP & DOWN buttons; press the OK button to enter the value. Check the appliance setting via Installer Menu setting 2-11; make sure it matches the correct boiler model as per Table 1. Set the remainder of the control settings as desired. Verify proper boiler operation for DHW and Central Heat demands.

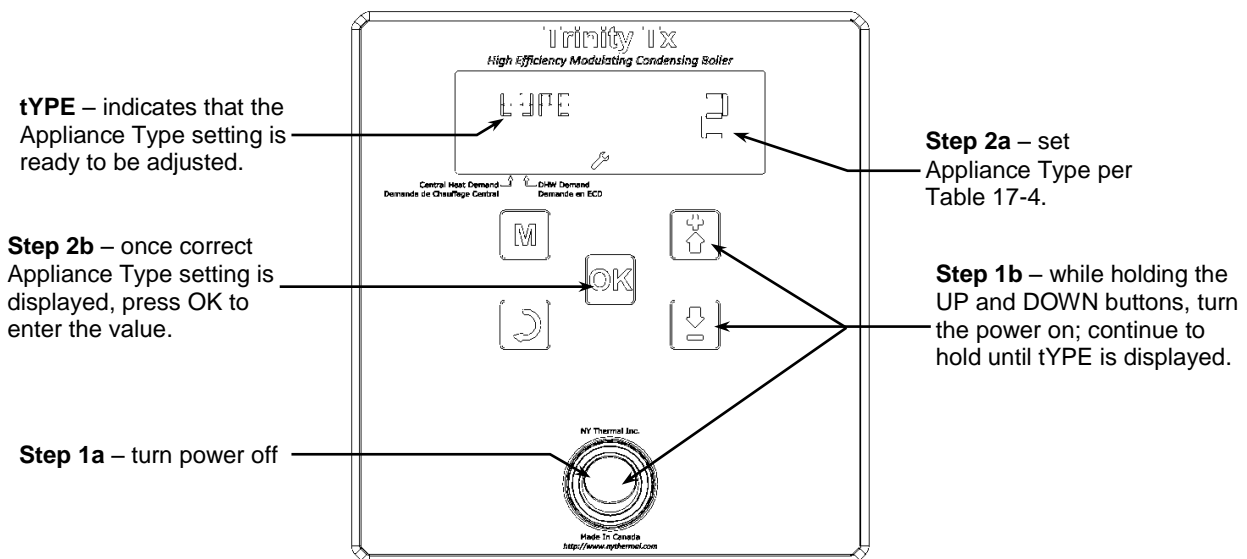
NOTICE If “tYPE 0” does not automatically display upon replacing the controller, the Appliance Type setting must be adjusted using the “Appliance Selection Method” detailed below.

Appliance Selection Method

To change the Appliance Type setting, perform the following steps:

1. Turn the power off; while holding the UP and DOWN buttons, turn the power on using power switch on the display console; see Figure 3. Continue holding the UP and DOWN buttons until “tYPE 0” is displayed on the screen, then release the UP and DOWN buttons.
2. Increase the setting by pressing the UP button. When the correct setting is displayed, see **Table 1**; press the OK button to enter the value.
3. Wait for a minimum of 1 minute, then cycle the power off and on.
4. Check the appliance setting via Installer Menu setting 2-11; make sure it matches the correct boiler model as per **Table 1**.
5. Set the remainder of the control settings as desired. Verify proper boiler operation on Domestic Hot Water and Central Heat demands.

Figure 3 Appliance Selection



Additional Instructions, for Models Not equipped with External Spark Generators

Tx boilers prior to serial 72170 may not be equipped with the external spark generator shown below. If the boiler is not equipped with the external spark generator, part 85040 spark transformer kit will be required.

