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6500814600

MAIN PCB, ACP CONTROLLER

Software version 00.37.00

Applicable Boiler Models

- TFTN085-399

Kit Contents

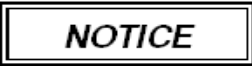
- Main PCB and replacement instructions (this document)



Main PCB Replacement procedure must be performed by a qualified service technician in accordance with these instructions. Failure to follow instructions may result in serious injury or death.



Restore PCB Settings from Display Memory within 30 minutes of replacing the main PCB to avoid needing to manually configure the application and models specific settings.



Reset to Factory Default Settings feature will restore the factory default settings of the replacement PCB, not of the boiler.



Replacement Instructions

- 1) Turn power to the boiler off at the source.

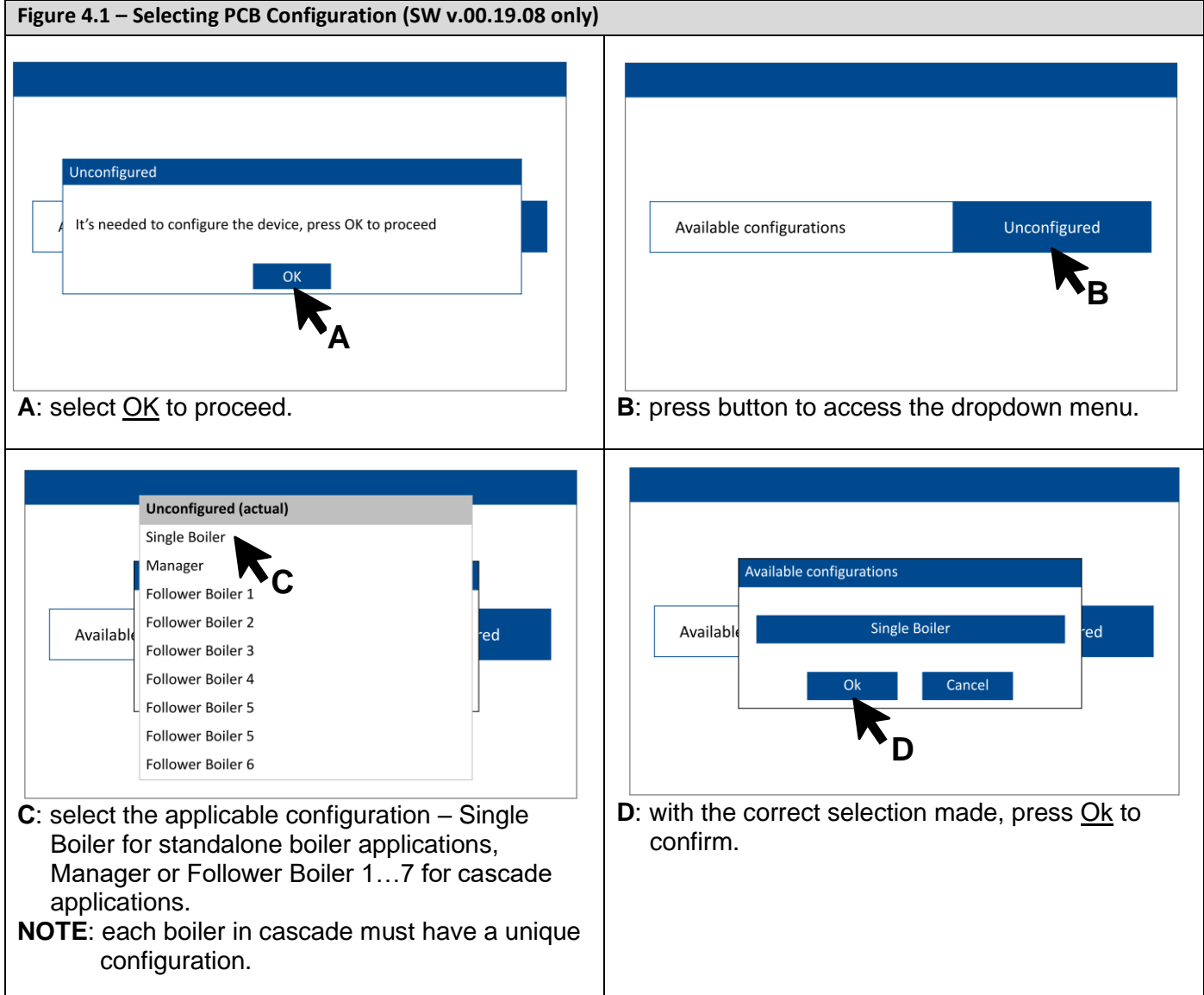
NOTE: it is not enough to only turn the power off at the service switch at the bottom of the control panel.

- 2) Remove the boiler front cover and the control panel cover (disconnect the wiring cables from the back of the display after moving the control panel cover away from the control panel)

- 3) Disconnect the wiring from the main PCB then remove the five (5) screws securing the PCB to the control panel. Install the new PCB in the reverse order, reusing the same hardware.

NOTE: it is recommended to take a photo for reference before disassembly.

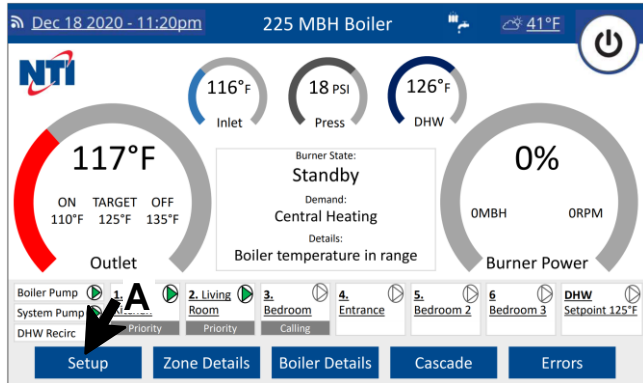
- 4) Turn power on and wait for the prompt to configure the control – see Figure 4.1. Note: this step is only applicable to earlier SW version 00.19.08 and is not required for SW version 00.26.01 or higher.



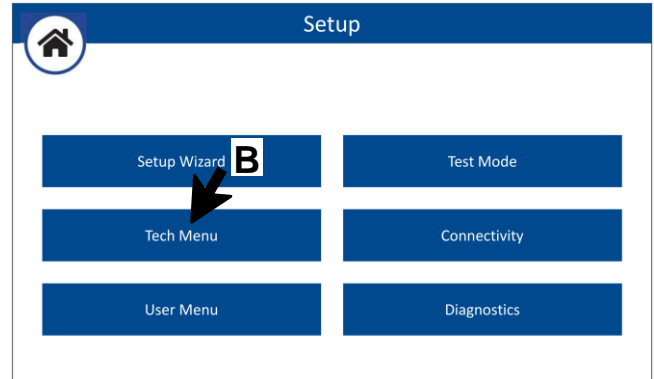
5) Restore PCB settings from Display Memory – see Figure 5.1.

NOTE: you must perform this operation within 30 minutes of restoring power to the boiler after replacing the PCB; otherwise, the display memory will be automatically overridden with the settings of the replacement PCB.

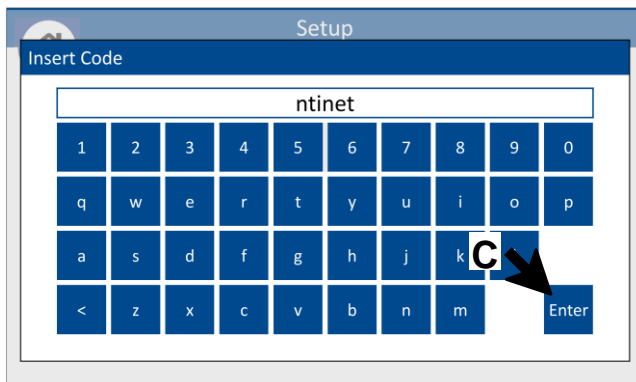
Figure 5.1 – Selecting PCB Configuration



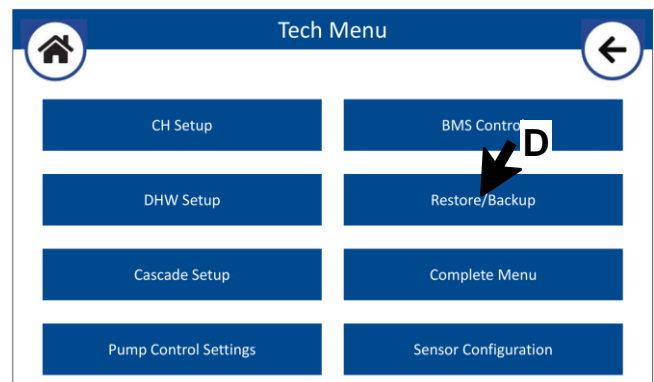
A: select Setup from the Homepage



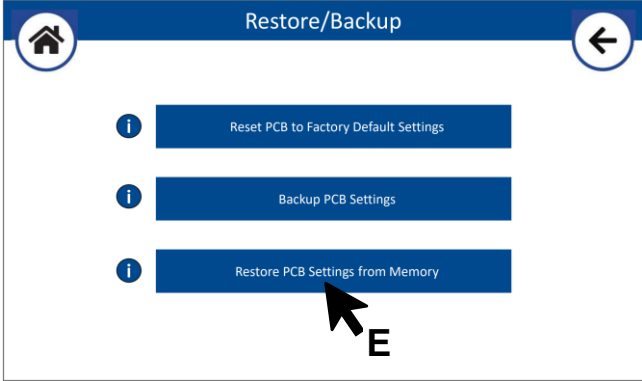
B: select Tech Menu from the Setup menu



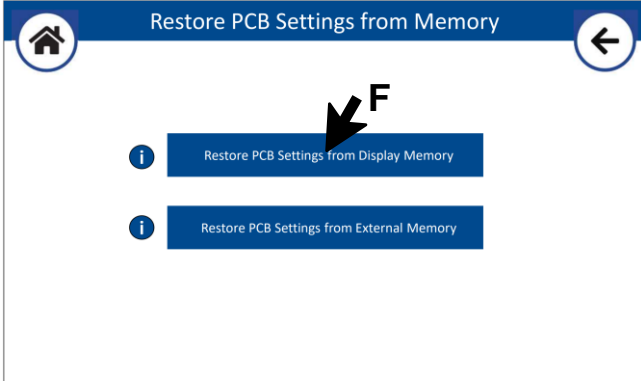
C: when prompted, input password “ntinet” then press Enter



D: select Restore/Backup from the Tech Menu



E: select Restore PCB Settings from Memory from the Restore/Backup menu



F: select Restore PCB Settings from Display Memory then wait while the restore is completed. When completed the display will reboot.

6) Confirm correct PCB settings – if the boiler name on the top of homepage matches the model of the boiler, then the PCB replacement procedure is complete.

NOTE: if the name at the top of the homepage reads “225 MBH”, then the Restore PCB settings from Display Memory operation did not work – repeat, or manually configure the boiler model specific parameters as per the Table 6.1 by accessing the Complete Menu – see Figure 6.1.

Table 6.1: Boiler Model Specific Parameters

| Parameter | | Model | | | | | | |
|--------------------------|--------|---------|---------|---------|------------|---------|---------|---------|
| Name | Number | TFTN085 | TFTN110 | TFTN150 | TFTN199 | TFTN285 | TFTN340 | TFTN399 |
| Set boiler heating power | 24.1.0 | 85 | 110 | 150 | 199 | 285 | 340 | 399 |
| Max Power | 24.1.1 | 75 | 96 | 87 | 79 (LP=81) | 85 | 75 | 90 |
| Ignition Power | 24.1.2 | 39 | 28 | 35 | 38 | 35 | 40 | 36 |
| Min percentage | 24.1.3 | 8 | 11 | 6 | 4 (LP=6) | 1 | 2 | 1 |

* Adjust manually if the Restore PCB settings from Display Memory procedure was not completed within 30 minutes of replacing PCB

Figure 6.1 – Navigating the Complete Menu (Access via Tech Menu – see Figure 5.1)

