TEKMAR TO HEATNET CONVERSION
INSTRUCTION SHEET

Note: Make sure the main breaker to the boiler is set to the OFF position.

Kits Part Numbers:

21-1004	Futera III 500-1000
21-1005	Futera III 1250-2000
21-1006	Fusion 500-1000
21-1007	Fusion 1250-2000

Steps:

1- Remove the harness that connect the main board with Tekmar Control (J13)
2- Remove the ribbon cable that connect the main board with HeatNet display board (J9)
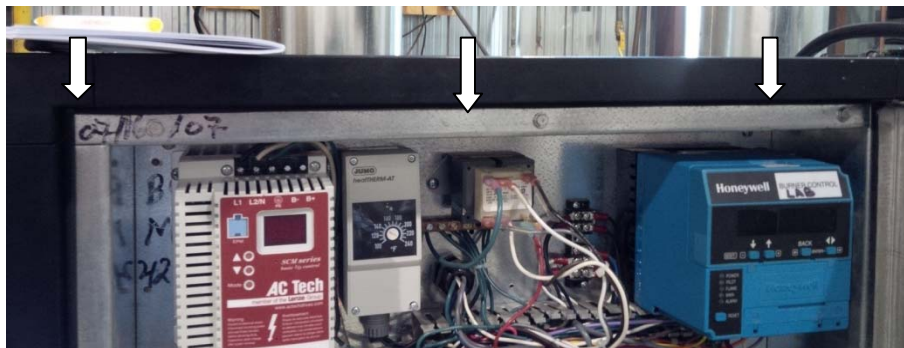3- Remove the three screws that hold the control panel to the top profiles(Figure 1)

Figure 1: Three screws that hold the control panel to the top profile

4- With a hammer, loose up the corner profile in order to be able to remove the control panel door(Figure 1)
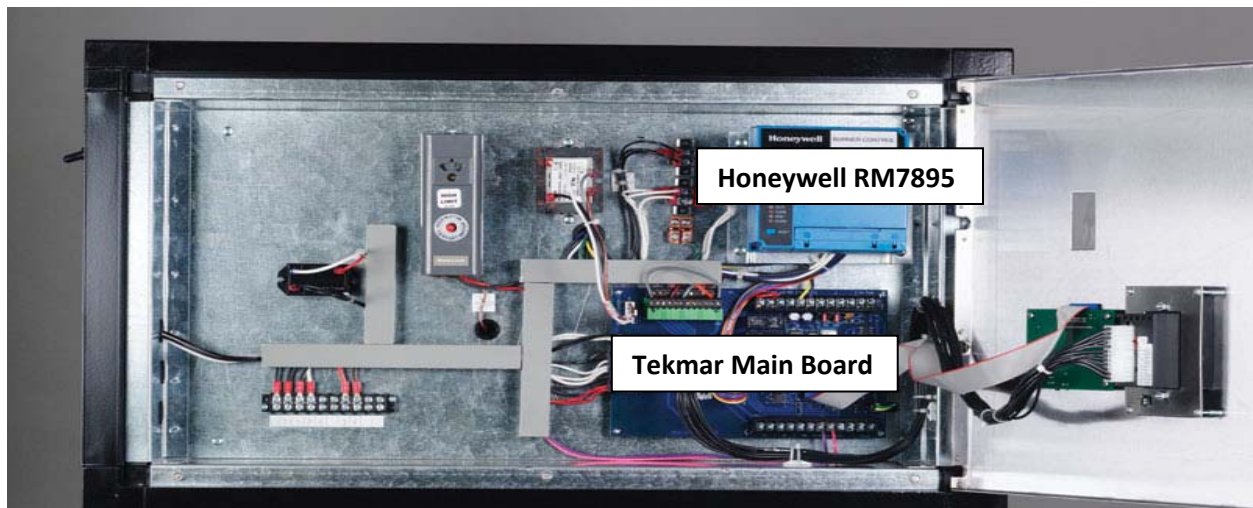5- Remove the control panel door

Figure 2: Tekmar Control Panel

6- Remove harness J7 (40-0118) from the main Tekmar Board and disconnect the wiring going to the ON/OFF Switch on the left side of the boiler.
7- Remove the Honeywell RM7895 and disconnect harness J5 from the main control board and from the Honeywell RM7895
8- Wire the new harness, J5(40-0125), to the Honeywell RM7895 as per wiring diagram 42-0510

9- Unplug harness J14 from the main Tekmar board
10- Remove the wiring to the 120 VAC Service harness, J1, on the main Tekmar board and wire it to the harness of Power Service harness, J1, on the HeatNet board per wiring diagram 42-0510.
11- Remove the wiring to the 120 VAC Switched, J15, on the main Tekmar board and wire it to the harness of Power Service Switch harness, J15, on the HeatNet board per wiring diagram 42-0510.
12- Unplug the J11A and J11B terminals from the HeatNet board. Connect the orange and blue wires going to J11-8 and J11-7 on the main Tekmar board to J11B-6 and J11B-5. Those are the flow switch wiring.
13- Remove the yellow wire going from J11-1 on the main Tekmar board to the Honeywell 7895 pin number 7.
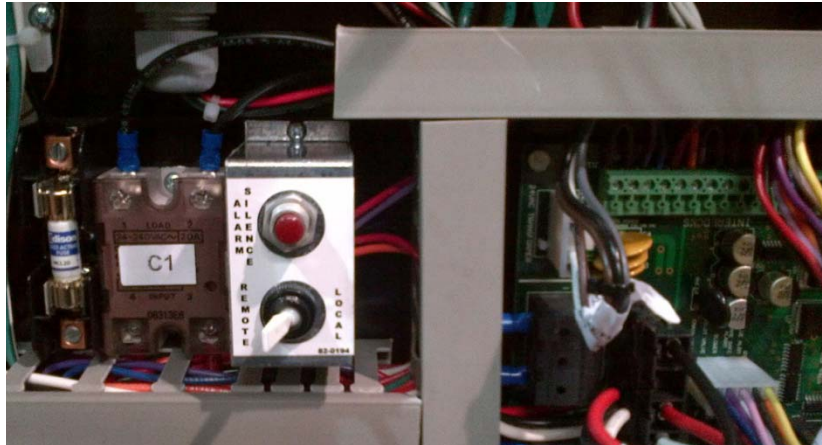14- Mount the bracket for the LOCAL/REMOTE switch and ALARM SILENCER (Figure 3)

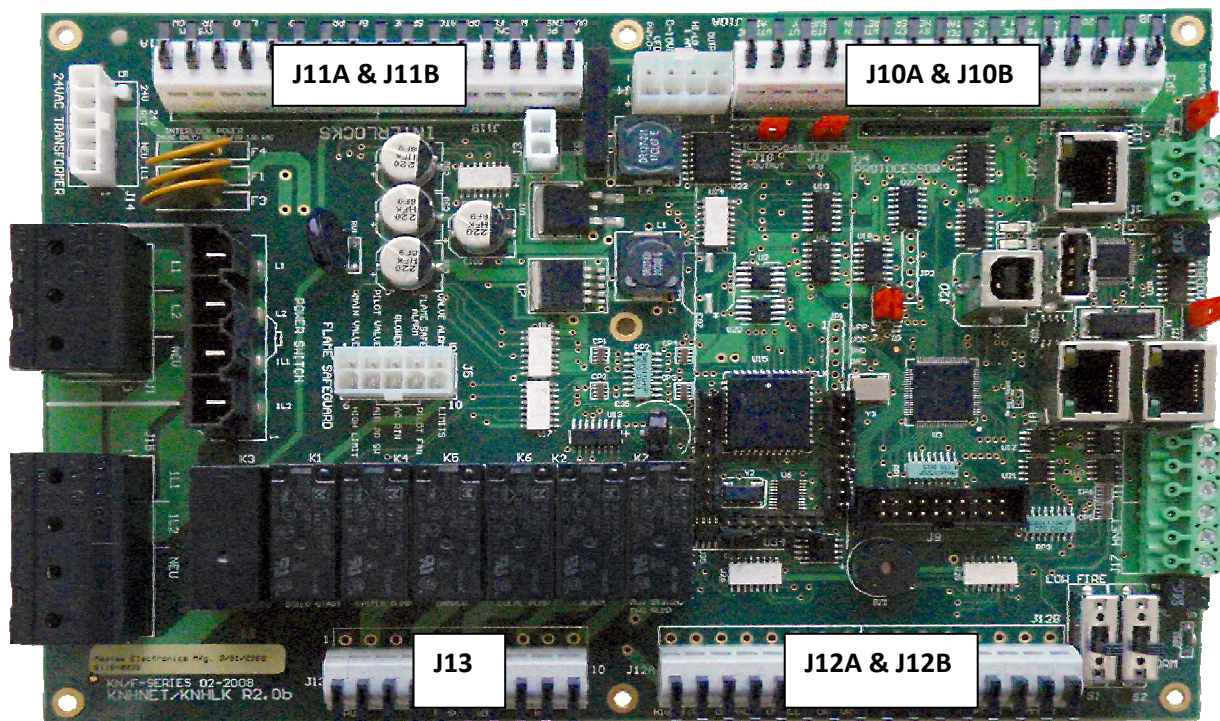**Figure 3: Local/Remote and Alarm Silencer Bracket**

Figure 4: HeatNet Board

15- Unplug the J12A and J12B terminal from the HeatNet Board
16- Mount the Local/Remote switch on the bracket. Wire the two wires from the Local/Remote as per drawing 42-0510 to TB terminal
17- Remove the wires on J11-11 and J11-12 on the main Tekmar board and wire them to J12A on the HeatNet board per drawing 42-0510.
18- Unplug the J13 terminal from the HeatNet Board
19- Remove the wires from J12-11 and J12-12 on the main Tekmar board and wire them to J13 on the HeatNet board per drawing 42-0510

20- Unplug J10A and J10B terminal
21- Completely remove wires from J12-7 and J12-8 on the main Tekmar board.
22- Remove completely the wires on J10-8 and J10-10 on the main Tekmar board.
23- Remove the wires on J10-4 and J10-6 on the main Tekmar board and wire them to J10B-1 and J10B-2.
24- Remove the supply and return sensor on the main Tekmar board, terminal J10, and connect it to terminal J10A on the HeatNet board per drawing 42-0510
25- Remove wires on J10-13 and J10-14 on the main Tekmar board and wire them to J13-5 and J13-6 on the HeatNet board per drawing 42-0510
26- Completely remove the wires on J10-2 on the main Tekmar board
27- Remove the wires on J10-20 and J10-22 on the main Tekmar board and wire them to J10B-6 and J10B-7 on the HeatNet board per drawing 42-0510
28- Unplug harness J4 on the main Tekmar board.
29- Completely remove the main Tekmar board
30- Place the HeatNet board in place of the Tekmar main board
31- Plug the harnesses: J14, J1, J15, J5,and J4 on the Heat Board
32- Plug terminals J11, J10, J12 and J13 on the HeatNet Board
33- If the boiler has **AC Tech VFD**, wire the green and yellow wire on J4 to terminal 2 and 5 on the VFD as per drawing 42-0510. Run a red and orange wire from terminal 16 and 17 on the VFD to terminal J11A-5 and J11A-6.
    If the boiler has **KB Drive VFD**, using a wire barrette, connect the green and yellow wire on J4 from the main Tekmar board to J4 green and yellow wire on J4 on the HeatNet board. Install a jumper across J11A-5 and J11A-6 on the HeatNet Board
34- Install the HeatNet Control Panel Door

Figure5: HeatNet Control Panel Door

35- Plug harness J7 on the HeatNet board and wire it to the power switch on the HeatNet control panel door as per drawing 42-0510
36- Plug the ribbon cable on J9 and plug it to the HeatNet display board
37- Unplug the wires on the 40 VA transformer and remove the transformer completely. Replace the 40 VA transformer with the 50 VA transformer.
38- If the boiler has a High/Low gas pressure switch, remove the wire on J11-9 and J11-10 on the main Tekmar board and wire to the J11A-7 and J11A-8 on the HeatNet board per drawing 42-0510.