

# LINE MONITOR KIT

For 95M-200 MCBA Control  
(kit # 550001996)

## INSTALLATION INSTRUCTIONS

### WARNING



This kit must be installed by a qualified installer or service agency, in accordance with the manufacturer's instructions, and in accordance with all codes and requirements of the authority having jurisdiction. Failure to follow these instructions could result in fire or explosion resulting in property damage, personal injury, or loss of life.

Before removing any access panel, disconnect the power to unit. Failure to do so could result in serious injury or electric shock!!

This kit contains all the parts needed to successfully install the ICM 491 line monitor kit for the UB95M/95M series boiler with Honeywell MCBA modulating boiler control. Be sure to use all replacement parts provided including sub assemblies and wire harnesses included with this kit.

### NOTICE

Before beginning installation, verify that all components are present. Read all instructions completely before installing relay kit.

### Tools Required:

Nut Drivers: 1/4" & 5/16"

Needle Nose Pliers

Drills: #21 (0.159"), #29 (0.136")

### This kit includes:

PART #	DESCRIPTION	QTY
240007607	Line Monitor Control	1
240007653	Line Monitor Wire Harness (3 Wires)	1
240007611	Kit Instructions	1
3001565	Line Monitor Control Cover	1
201000001	#8x3/8" Lg Screw	2
240007659	#10-16 X 1", Screw	2

**Line Monitor Installation:**

**Mounting**

1. Disconnect the power to the boiler.
2. Remove the boiler front access panel.
3. Locate and drill two screw holes for mounting the line monitor, and two holes to mount the safety cover. See Figure 2.
4. Mount the Line Monitor using the #10 x 1" screws. See Figure 3.
5. Set the Anti-short cycle delay period (ASC Time Delay in Min.) on the line monitor 0.1 Minutes. See figure 1.
6. Measure the voltage of the incoming power with a volt meter. Then set the nominal voltage setting to match the incoming power.

**Wiring**

1. Disconnect all wires from the power switch. Using the wire set provided, wire the switch and line monitor according Figure 5. Making sure to note the orientation of the switch and terminal designations.

**Figure 1 - Line Voltage Monitor**



**NOTICE**

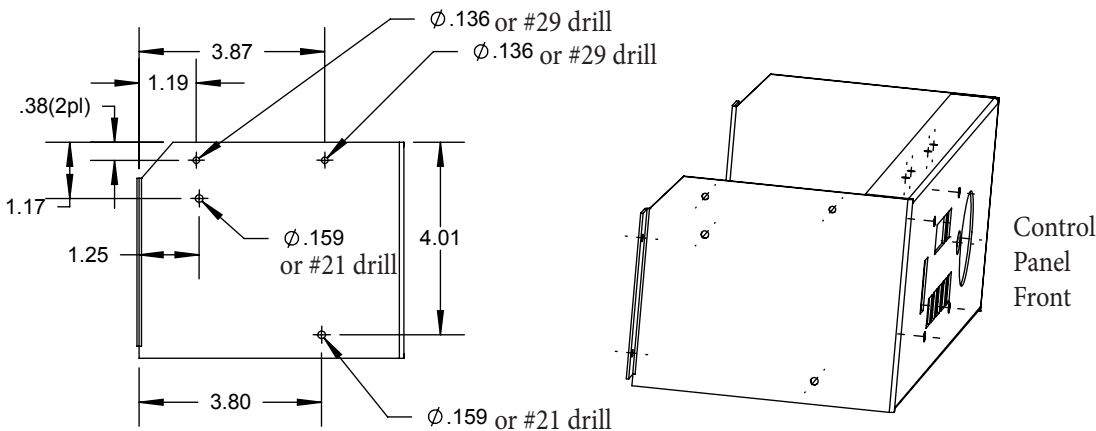
**Important! It may be necessary to remove the switch from its mount to confirm the terminal designations.**

2. Install the safety cover using the #8 x 3/8" screws.

**Testing**

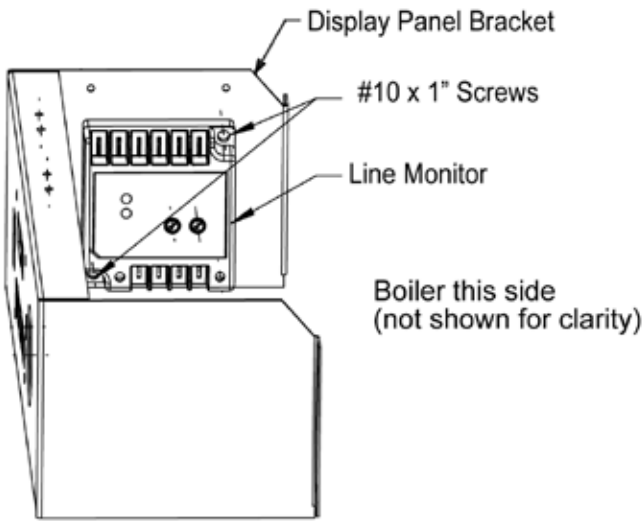
1. Replace the boiler front access panel and re-connect power to the unit.
2. Check the unit and switch for proper operation. While in the "ON" position the switch will illuminate and power the display panel. While in the "OFF" position the switch and display panel will go dark.
3. If the switch is illuminated in both positions then re-check the switch terminals and wiring.

**Figure 2**



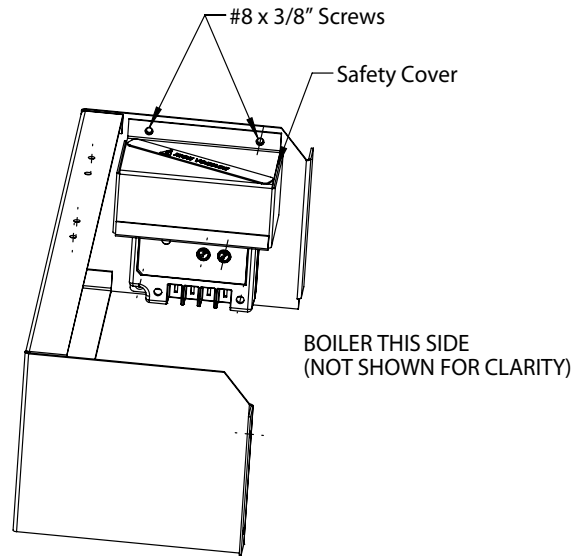
**DRILL HOLES ON LEFT SIDE OF DISPLAY PANEL. NOTE: LEFT SIDE AS FACING FRONT OF BOILER**

Figure 3 - Install Line Monitor



Mount Line Monitor to Display Panel Bracket

Figure 4 - Install Safety Cover



**CAUTION**



\*There must be a minimum of 1/4" clearance from inside of safety cover to Line Monitor control. Confirm before finalizing assembly.

Figure 5 - Wiring Diagram

**IMPORTANT: THE ACTUAL ORIENTATION OF THE SWITCH MAY VARY. BE SURE TO IDENTIFY NUMBERS 1, 2 & 3 ON THE SWITCH AND WIRE ACCORDINGLY.**

