

## BCX Original Manual Control Training

### I. Off Mode

- A. 120Volt Ac Supply Circuit (:18)
  - 1. Terminal Block 1 (:54)
  - 2. Circuit Breaker 1 (1:30)
  - 3. Terminal Block 1b (2:18)
  - 4. Heat Cut Off Switch (2:57)
- B. 24 Volt AC Supply Circuit (3:28)
  - 1. Hot Air Transformer (3:39)
  - 2. Boiler Transformer (4:31)
- C. 24 Volt DC Supply Circuit (5:20)
  - 1. 24 Volt DC Power Supply (5:30)
- D. Relay Board Introduction (7:17)
  - 1. Relay Board (7:26)
- E. Cooling Fan Circuit (8:33)
  - 1. Cooling Fan Thermostat (8:43)
  - 2. Cooling Fan (10:03)
- F. Intake Vent Circuit (10:47)
  - 1. Vent Switch (10:57)
  - 2. Vent Solenoid (12:03)
- G. Cavity Lights Circuit (12:52)
  - 1. Light Switch (13:03)
  - 2. Terminal Block 2 (14:09)
  - 3. Thermistor (14:38)
  - 4. Halogen Lights (15:06)
- H. Manual Draining of the Boiler (15:54)
  - 1. Boiler Drain (16:08)
  - 2. Boiler Fill Circuit Introduction (18:02)
    - a) Float Switches (18:15)
    - b) Low Water Light (19:37)
    - c) Logic Board Introduction (20:20)
    - d) Boiler Fill Solenoids (21:56)
- I. Quench Circuit (24:35)
  - 1. Quench Thermostat (25:08)
  - 2. Quench Solenoid (26:07)
- J. Flush Sequence (26:52)
  - 1. Flush Disable Thermostat (27:00)

## II. Cool Down Mode

- A. Mode Switch Selection (:08)
  - 1. Mode Switch (:13)
- B. Fan Circuit Introduction (1:22)
  - 1. Fan Speed Selector Switch (1:28)
  - 2. Inverter Drive (3:29)
  - 3. Convection Motor (5:49)
- C. Delime Pump Manual Operation (6:26)
  - 1. Steam On Demand Button (6:37)
  - 2. Delime Light (7:57)
  - 3. Delime Pump (8:55)
- D. Automatic Delime Sequence (11:54)

## III. Steam Mode

- A. Oven On Circuit (with Door Switch) (:06)
  - 1. Power Light (:35)
  - 2. Oven On Relay Board Sequence (1:13)
    - a) Boiler Pilot Enable (1:13)
      - (1) Boiler High Limit (1:38)
      - (2) Boiler Ignition Module (4:15)
      - (3) Boiler Gas Valve (6:13)
      - (4) Boiler Pilot and Flame Sensor (7:01)
    - b) Hot Air Pilot Enable (8:45)
      - (1) Cavity High Limit (9:00)
        - (a) Gas Valve Operation Walkthrough (10:06)
      - (2) Hot Air Primary Ignition Module (12:18)
      - (3) Single Solenoid Primary Hot Air Gas Valve (13:03)
      - (4) Right Side (Control Side) Hot Air Pilot and Flame Sensor (13:44)
      - (5) Hot Air Secondary Ignition Module (14:53)
      - (6) Dual Solenoid Secondary Hot Air Gas Valve (15:16)
      - (7) Left Hot Air Pilot and Flame Sensor (16:07)
  - 3. Boiler Preheat Thermostat (17:14)
  - 4. Fan Reversing Timer (19:30)
    - a) Door Switch (19:39)
  - 5. Oven On Relay (CR1) (21:16)
  - 6. Temperature Controller (22:47)
    - a) Product Probe (27:36)
    - b) Cavity Probe (28:28)

c) Temperature Potentiometer (29:11)

d) Heat Demand Light (30:10)

B. Steam Logic Board Sequence (30:58)

#### IV. Hot Air Mode

A. Hot Air Mode Logic Board Sequence (:06)

B. Steam On Demand (2:09)

1. Steam on Demand Potentiometer (2:16)

2. Active Light (3:16)

#### V. Combi Mode

A. Combi Mode Logic Board Sequence (:06)