

## Tin Man Boiler Control Box.

- |   |                                     |   |
|---|-------------------------------------|---|
| 1) Hot 110vac IN/Supply black.                      | 9) Hot from B to receptacle 14      | A) ON/OFF switch for 110vac receptacle/element  |
| 2) Hot 110vac IN/Supply red; to switch A & B by 16. | 10) Hot from D to SSR/17/INPUT      | B) ON/OFF switch for HOT lead 9 to 220vac receptacle/element                                    |
| 3) Neutral IN/supply white.                         | 11) Ground to switches, receptacles | C) ON/OFF switch for HOT lead 15 to 3/way switch D  |
| 4) Earth Ground IN/supply green.                    | 12) Ground to Potentiometer (POT)   | D) 2 position switch for HOT leads 7 & 10. Up position makes 7 hot, down position makes 10 hot. |
| 5) Hot from A to receptacle 6                       | 13) Two lead wire from POT to SSR   |   |
| 6) 110vac receptacle                                | 14) 220vac receptacle               |   |
| 7) Hot from D to receptacle 14.                     | 15) HOT jumper from switch D to D   |   |
| 8) Hot from SSR/17/OUTPUT                           | 16) HOT jumper from switch A to B   |   |
|   | 17) SSR (Solid State Relay)         |   |

**NOTE:** Switch D has two hot positions and controls how receptacle/element 17 gets it power. When UP, 10 is dead, 7 is HOT bypassing the SSR/17 providing full power to receptacle/element. When DOWN, 7 is dead and 10 is hot (energizing the SSR/17) allowing full temperature control via the Potentiometer.

