



- NOTES:
- It is recommended that control wiring (i.e.: initiation, pressure switch, etc.) be physically separated from the high voltage wiring (115 volts or higher).
 - For 460 VAC Operation - Use Jumper #1 on T3 and T51. As shipped unless otherwise specified.
For 230 VAC Operation - Use Jumper #2 on T3 and T51.
For 575 VAC Operation - FACTORY WIRE ONLY. SEE VIEW "A".
Replace T3 with P/N 311017. Wire per View "A". Use Jumper #1 between H2 & H3 on T51. Use Resistor R74 (2000 Ohm, 10 Watt) in place of Jumper #1 between CTH2 & CTH3 on T51. For 115 VAC or 380 VAC Operation - CONSULT FACTORY.
 - For Single Stage Pilot Operation - Connect pilot switch to T51-FS3 & T51-GND. No Jumper required across T51-FS1 & T51-GND.
For Two Stage Pilot Operation - Connect 1st stage pilot switch to T51-FS1 & T51-GND. Connect 2nd stage pilot switch to T51-FS3 & T51-GND.
For DUAL COUNT/DUAL CURRENT (Dual Weld/Dual Heat) or TRIPLE COUNT/TRIPLE CURRENT (Triple Weld/Triple Heat) or External Schedule Selection, SEE MANUAL.
 - EN2000-SERIES, "E" Cabinet:
ENTRON supplies Temperature Limit Switch (TLS) P/N 300020 and provides connections to T51-TLS/AUX1 & T51-GND. Jumper not required between T51-TLS/AUX1 & T51-GND.
NOTE: TLS SCR will open at temperatures greater than or equal to 150°F.
When external valve power is supplied to the control. Remove and insulate leads T53-VL1 & T53-VL2 on the Terminal Strip Board (PCB2), (from T3-X1 & T3-X2). Connect external AC power supply (24-240 VAC) to T51-VL1 & T51-VL2/S14/VL2.
CAUTION: Do not overtighten T53.
 - Connect T51-CTH4/L2 to L2/H2 side of Welding Transformer Primary.
 - The Automatic Voltage Compensation (AVC), Automatic Power Factor (APF), Delayed Firing, and 50Hz/60Hz functions are determined by the settings of the four position DIP switch on PCB1 (A/N 600500). As shipped from the factory, AVC is off, APF is on, 60Hz Delayed Firing is on, and 60Hz operation is selected. To change any of these functions, see instructions in the manual.
 - When TLS and WFS are used together, add Terminal Strip T56 (P/N 335038) and wire as shown below. Jumper not required between T51-TLS1/AUX1 & T51-GND. WFS will open with flows less than .75 GPM. EN2000-600E, EN2000-1200E, EN2000-1800E, & EN2000-2200E.
When control is provided with a Water Flow Switch, the WFS must be wired in series with the TLS supplied by ENTRON, per the diagram below.

