

PARTS LIST - CONTROL SECTION			
QTY.	DESIG.	PART NO.	DESCRIPTION
1		600574-019	Assem., Dial Plate, w/Sw. Assem., EN1001, Consisting of:
1		600574-020	Assem., Dial Plate, w/Sw. Assem. & Keylock, EN1001, Consisting of:
1	PCB1	600572-002	Assem., Switch, Sequence Control & Display Board
1	SW1	600531-001	Assem., Switch, Keylock, Momentary, SPDT
1	SW2	600043-001	Assem., Switch, Polarity/Reverse, (Part of J3 Harness)
1		540302	Illustrated Panel, Dial Plate, EN1001, "B" Cabinet
1		515104	Panel, Display, Window, Red Filter, EN1001
1		565003	Hole Plug, 3/4" Diam., Black. (See Note 5)
1	PWR. LT.	305001	Lamp, Neon, Red, 230V
1	WLD. LT.	305002	Lamp, Neon, Clear, 230V
1	J2-J3	322349	Assem., Harness, Control Bd. to Terminal Bd.
1	J3	322359-005	Assem., Harness, Power, EN1001

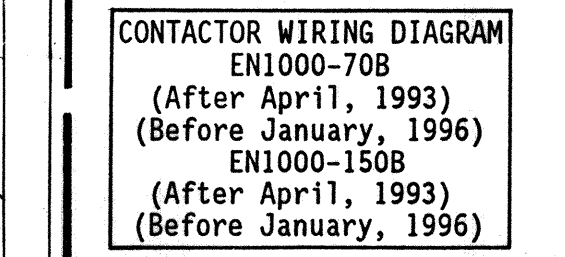
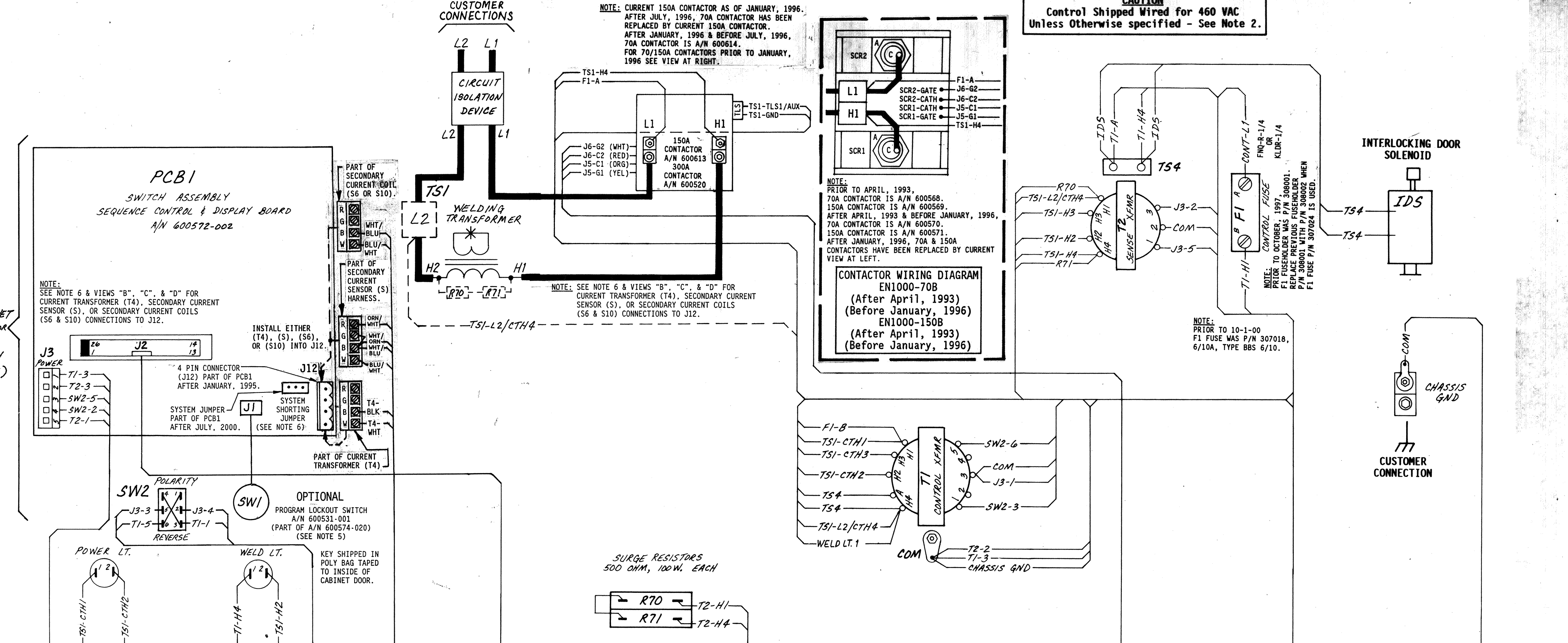
PARTS LIST - CONTACTOR/POWER SECTION			
QTY.	DESIG.	PART NO.	DESCRIPTION
1	TS1	600630	Terminal Block, 1 Pole, 600V
1	T54	335007	Terminal Strip, 2 Pin, (For IDS), (Part of J3 Harness)
1	T1	310001	Transformer, Control, (Part of J3 Harness)
1	T2	310002	Transformer, Sense, (Part of J3 Harness)
1	F1	308010	Fuseholder, 1 Pole, Mini, 600V
1	F1	307024	Fuse, Control, 1/4A, FNQ-R-1/4 or KLDR-1/4
2	R74	600048	Resistor, Power, 2000 Ohm, 10W, (For 575V)
2	R70, R71	225016	Resistor, Power, Surge, 500 Ohm, 100W
1	(R70, R71)	325024	Assem., Wire, Surge Resistor, 18 Ga., Black
1		600613	Assem., Contactor, Thyristor, Air, 150A, 460/575V, w/TLS
1		600520	Assem., Contactor, Thyristor, Air, 300A, 460/575V, w/TLS
1		300020	Switch, Temp. Limit, (N.C.), (Part of 600613/600520)
1	PCB2	410333-003	Assem., PCB, Terminal Strip Bd., EN1001 "B" Cabinet
1	F6(PCB2)	307022	Fuse, 1 Amp, Slow Blow, 2 Ag, (Part of 410333-003)
1		346004	Lug, Screw, Chassis GND, 7/0 Wire
1		565001	Hole Plug, 1" Diam., Black
1	IDS	600044	Assem., Interlocking Door Solenoid
1		314001	Coil Assem., Only, IDS
1		510001	Cabinet, Control Style "B", Bench
1		510004	Door, Cabinet, "B", Bench
4		580001	Jumper, Terminal Strip Board, TS1, Voltage #1 & #2
SEE CHART	T4	SEE CHART	Assem., Transformer, Current, 200:5, P2
SEE CHART	T4	SEE CHART	Assem., Transformer, Current, 500:5, P5
SEE CHART	T4	SEE CHART	Assem., Transformer, Current, 1000:5, P10
SEE CHART		600590	Assem., Secondary Current Sensor (S)
SEE CHART	J12-J12	322379	Assem., Harness, Secondary Current Sensor
SEE CHART	S6	600667	Assem., Secondary Current, 6" Coil Rogowski
SEE CHART	S10	600668	Assem., Secondary Current, 10" Coil Rogowski
SEE CHART	J12-J12	322475	Assem., Harness, Secondary Current, Rogowski Coil
1		700188	Manual, EN1001 "B" Cabinet
1		421447	Wiring Diagram, EN1001-Series, "B" Cabinet

@ Optional Keylock, when specified by customer. See Note 5. Pack Key in Poly Bag 900148 & attach to Door w/Yellow Tape 900118.
 * Substitution or addition of parts when 575V Control is specified.

MANUFACTURING INSTRUCTIONS
 See Drawing #600567 for Mechanical Assembly Instructions.
 See Drawing #440269 for Packing Instructions, "B" Cabinet.
 See Drawing #440353 for Label Locations, "B" Cabinet.

NO CIRCUIT CALIBRATION OR ADJUSTMENT EVER REQUIRED.

CAUTION
 Control Shipped Wired for 460 VAC
 Unless Otherwise specified - See Note 2.



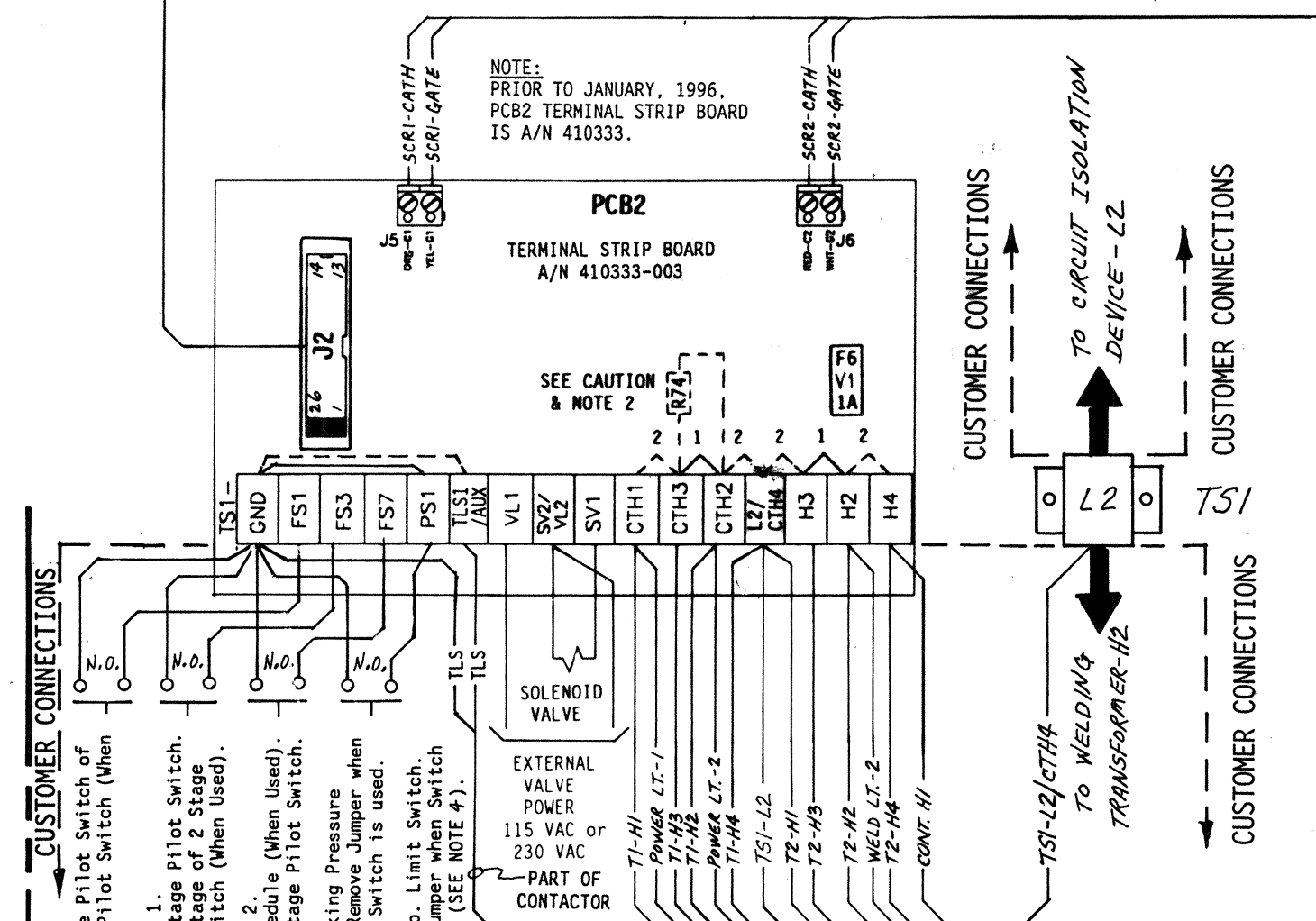
COIL/SENSOR MODEL NUMBER	CURRENT TRANSFORMER, SECONDARY CURRENT SENSOR, OR SECONDARY CURRENT COIL PART NUMBER	CONTACTOR SIZE 150A CONT. 300A CONT.
P2 - 200:5	A/N 600575-002	X
P5 - 500:5	A/N 600576-002	X
S6	A/N 600590 & A/N 322379	X X
S	A/N 600667 & A/N 322475	X X
S10	A/N 600668 & A/N 322475	X X

X = ONE CURRENT TRANSFORMER ASSEMBLY, ONE SECONDARY CURRENT SENSOR ASSEMBLY, OR ONE SECONDARY CURRENT COIL ASSEMBLY.

⚠ DANGER
 HAZARDOUS VOLTAGE FROM ONE OR MORE SOURCES
 Turn off all voltage sources before touching any components.
 Electrical shock or flash will cause severe injury or death.

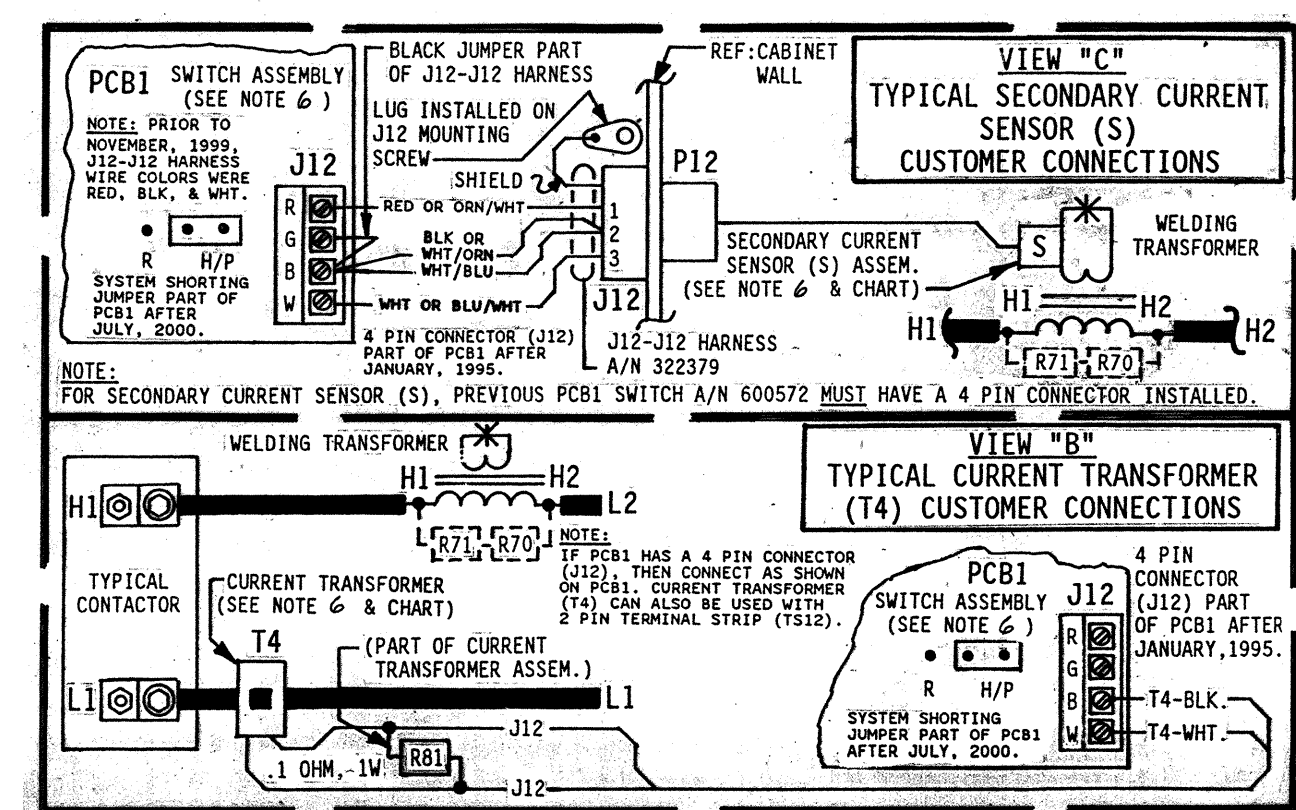
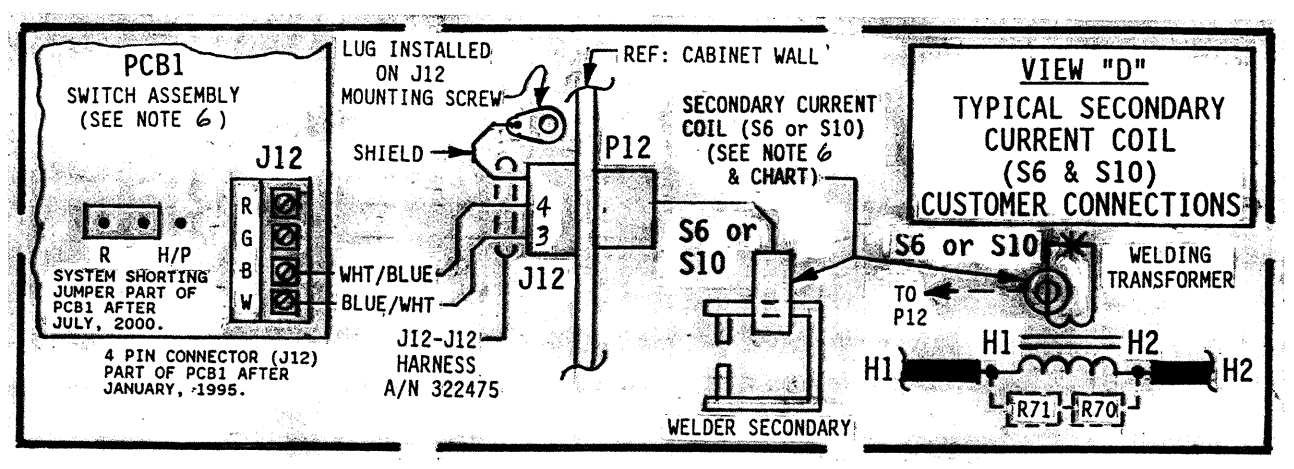
⚠ NOTICE
 FOR SERVICE ON THIS CONTROL
 Contact Your Machine Dealer Or
 ENTRON CONTROLS INC.
 DIRECTLY: (630) 682-9600
 485 EAST RANDY ROAD
 CAROL STREAM, IL 60188
 FAX # (630) 682-3374

Switches & Lights shown as viewed from inside of Cabinet.



CAUTION
 SEE NOTE 2
 For 460 VAC Operation - Use Jumpers #1. As shipped unless otherwise specified.
 For 230 VAC Operation - Use Jumpers #2.
 For 575 VAC Operation - FACTORY WIRED ONLY.
 Jumper #1 is used between H2 & H3
 Jumper #1 between CT#2 & CT#3 is removed & replaced by resistor R74 (2000 Ohm, 10 Watt).
 For 115 VAC or 380 VAC Operation - Consult Factory.

CAUTION CONTROL WIRED FOR 460 VAC - UNLESS OTHERWISE SPECIFIED.
 CUSTOMER CONNECTIONS - CAUTION - READ MANUAL & ALL NOTES BEFORE INSTALLING OR OPERATING CONTROL.
 SEE NOTE 1.



- 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 Jumpers #1 on TS1. As shipped unless otherwise specified.
 For 230 VAC Operation - Use Jumpers #2 on TS1.
 For 575 VAC Operation - FACTORY WIRED ONLY.
 Use Jumper #1 between H2 & H3 on TS1. Use Resistor R74 (2000 Ohm, 10 Watt) in place of Jumper #1 between CT#2 & CT#3 on TS1.
 For 115 VAC or 380 VAC Operation - CONSULT FACTORY.
 - For Single Stage Pilot Operation - Connect pilot switch to TS1-F53 & TS1-GND. No Jumpers required across TS1-F51 & TS1-GND.
 For Two Stage Pilot Operation - Connect 1st Stage Pilot Switch to TS1-F51 & TS1-GND. Connect 2nd Stage Pilot Switch to TS1-F53 & TS1-GND.
 For DUAL COUNT/DUAL CURRENT (Dual Weld/Dual Heat) - SEE MANUAL.
 - EN1001-SERIES, "B" CABINET:
 ENTRON supplies Temperature Limit Switch (TLS) P/N 300020 and provides connections to TS1-TLS1/AUX1 & TS1-GND. Jumper not required between TS1-TLS1/AUX1 & TS1-GND.
 NOTE: TLS Thyristor will open at temperatures greater than or equal to 150°F.
 After January, 1996 the Temperature Limit Switch (TLS) is part of 150A Contactor Assembly.
 - When Optional Program Lockout is specified by customer. Dial Plate A/N 600574-005 replaces A/N 600574-004. Add Switch P/N 600531-001 & remove Hole Plug P/N 565003.
 - CURRENT TRANSFORMER (T4) CONNECTIONS:
 Wire per view "B". Current Transformer coil (T4) shown installed on L1, may be installed on H1. Wires from Current Transformer (T4) to J12 should be kept as short as possible.
 SECONDARY CURRENT SENSOR (S) CONNECTIONS:
 Wire per view "C". Secondary Current Sensor (S) may be used in place of Current Transformer (T4). Add J12-J12 Harness A/N 322379. *ADDITIONAL CABINET FOR DRAWING #60009-003.*
 NOTE: Secondary Current Sensor (S) can ONLY be used with PCB1 A/N 600572-002 or A/N 600572 that has a 4 pin connector (J12) installed.
 SECONDARY CURRENT COILS (S6 & S10) CONNECTIONS:
 Wire per view "D". Secondary Current Coils (S6) & (S10) may be used in place of Current Transformer (T4). Add J12-J12 Harness A/N 322475.
 NOTE: Secondary Current Coils (S6) & (S10) can ONLY be used with PCB1 A/N 600572-002 at revision "Z" or any revision thereafter.
 AFTER JULY, 2000:
 Sequence Control/Display Board A/N 600572-002 (PCB1) revision "Z" or any revision thereafter MUST have the System Shorting Jumper installed into the correct two (2) pins for use with either a Current Transformer (T4), Secondary Current Sensor (S), or Secondary Current Coils (S6 & S10). See applicable View "B", "C", or "D" for correct Jumper installation.

REV.	AUTH.	DESCRIPTION	DATE	DRWN. CHK. BY	DATE
1		WIRING DIAGRAM, EN1001-SERIES, "B" CABINET			