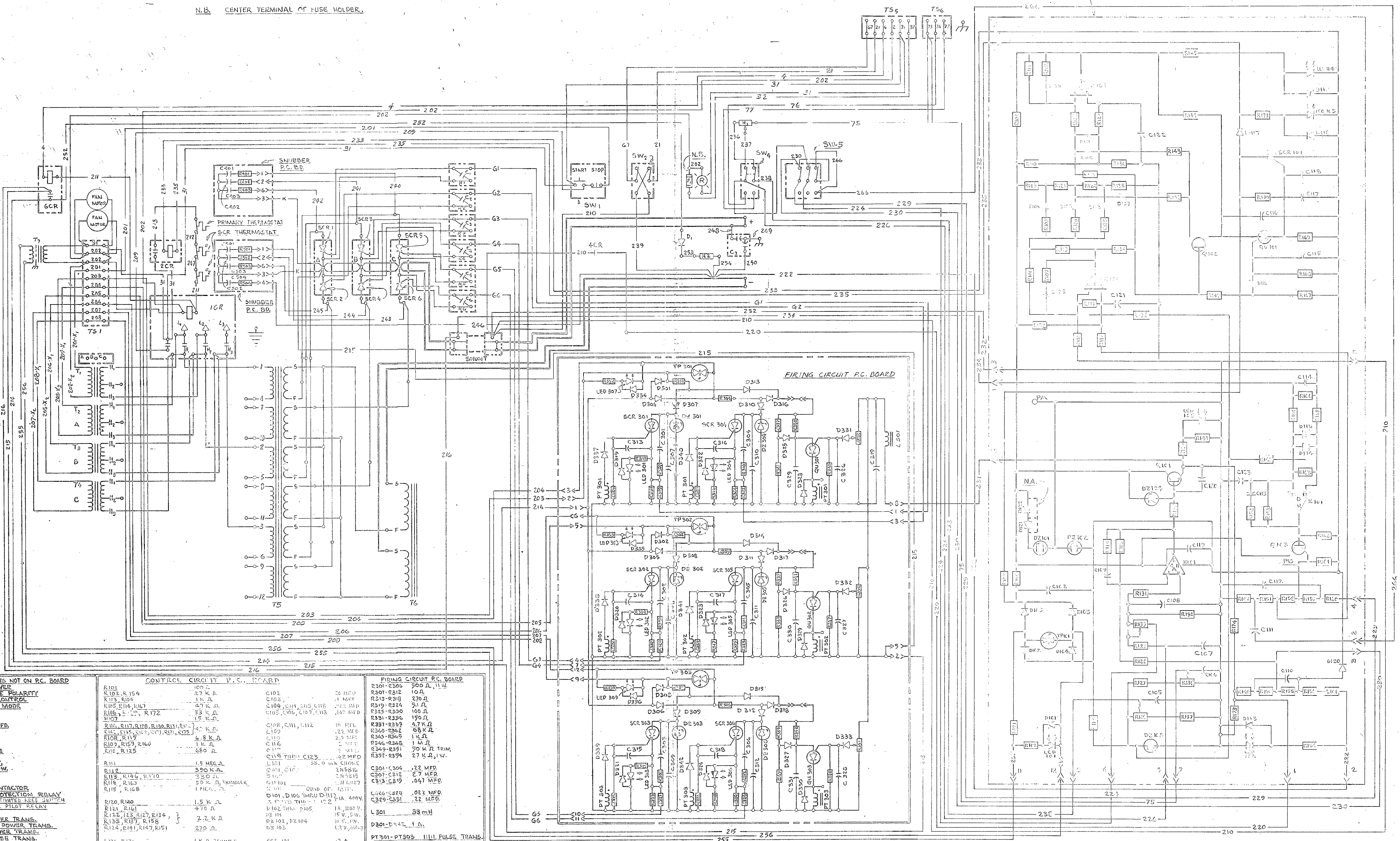


### NOTES

N.A. ONE OR BOTH OF THE DIODES (D121 & D122) MAY BE SHORTED WITH A JUMPER

N.B. CENTER TERMINAL OF FUSE HOLDER.

CONTROL P.C. BOARD



CANADA 11-76

#### COMPONENTS NOT ON P.C. BOARD

- SW1 INPUT POWER
- SW2 ELECTRODE POLARITY
- SW3 OUTPUT CONTROL
- SW4 WELDING MODE
- C501 .15 MFD.
- C502 .05 MFD.
- D1 16 A.
- F1 8 A. FUSE
- R1 10 K. POT.
- R2 20 K. 300W.

#### CONTROL CIRCUIT P.C. BOARD

- R101 105 Ω
- R102, R154 27 K. Ω
- R103, R104 1 K. Ω
- R105, R114, R167 47 K. Ω
- R106, R157, R172 33 K. Ω
- R107 15 K. Ω
- R108, R117, R130, R131, R132 47 K. Ω
- R109, R113, R118, R123, R124 5.1 K. Ω
- R109, R119 6.8 K. Ω
- R109, R159, R160 1 K. Ω
- R110, R125 680 Ω
- R111 1.5 MEG. Ω
- R112 300 K. Ω
- R113, R148, R170 330 Ω
- R116, R163 50 K. Ω TRIMMER
- R115, R168 1 MEG. Ω
- R120, R140 1.5 K. Ω
- R121, R161 470 Ω
- R122, R125, R127, R134 10 K. Ω
- R135, R137, R158 2.2 K. Ω
- R124, R141, R147, R151 270 Ω
- R126, R136 1 K. Ω TRIMMER
- R139 10 K. Ω
- R133, R142, R153 68 K. Ω
- R136 1.2 K. Ω
- R139 50 K. Ω TRIMMER
- R143, R152 22 K. Ω
- R145 27 MEG. Ω
- R149 1.2 K. Ω
- R152, R150 52 K. Ω
- R166, R169 47 Ω
- R171 150 K. Ω

#### FIRING CIRCUIT P.C. BOARD

- C102 50 MFD.
- C103 1 MFD.
- C104, C114, C115, C118 100 MFD.
- C105, C106, C107, C113 .047 MFD.
- C109, C111, C112 15 MFD.
- C109 1.2 MFD.
- C110 2.2 MFD.
- C116 10 MFD.
- C117 5 MFD.
- C119 THRU C123 62 MFD.
- L101 35.0 mA CHOKE
- PT 301, 302 2N5816
- PT 303 2N5816
- PT 304 1N4007
- N101 COND. OP. AMPL.
- D101, D106 THRU D113 1A. 400V. X 1.25 INCHES THRU 1.02
- D102 THRU D105 1A. 100V. 25 MM. SW.
- D102, D104 10 V. 1W.
- D103 6.2 V. 1W.
- SCR 101 12 A
- TP 101 THRU SH1 RELAY
- LED101 THRU LED105 RED LIGHT EMITTING DIODE

#### SNUBBER P.C. BOARD

- R401-R403 47 Ω, 2W.
- C401-C403 .68 MFD.

#### SNUBBER P.C. BOARD

- R501-R503 47 Ω, 2W.
- R504 27 Ω, 2W.
- C501-C503 .68 MFD.
- C504 1 MFD.

#### AN.S.I. ELECTRICAL SYMBOLS PER E-1527.

SINCE COMPONENTS OR CIRCUITRY ON A PRINTED CIRCUIT BOARD MAY CHANGE WITHOUT AFFECTING THE INTER-CHANGEABILITY OF A COMPLETE BOARD, THIS DIAGRAM MAY NOT SHOW THE EXACT COMPONENTS OR CIRCUITRY OF CONTROLS HAVING A COMMON CODE NUMBER.

THIS LINCOLN ELECTRIC CO.  
CLEVELAND, OHIO U.S.A.  
DATE 8-18-76 SCALE 1:1

CHG. No. 10-1-76  
10-8-76 J  
11-9-76 S  
12-3-76 A  
15-27-77 C

W.P.C. IDEALARC DC-1500  
OPERATING SCHEMATIC  
SUPPLY DOC. N-1435 CA I.P.C. 444