



### LEGEND

SPECIFIED VALUES OF NUMBERED COMPONENTS

#### CONTROL CIRCUIT P.C. BOARD

C20	.022 MFD.	R20	500 Ω 1/4 W.
C21	.22 MFD.	R21	100 Ω
C22	.150 MFD.	R22	2.2 K Ω
C23	.047 MFD.	R23	270 Ω 1 W.
C24	100 MFD.	R24	15 K Ω
C25	33 MFD.	R25	10 Ω
C26	50 MFD.	R26	100 Ω
		R27	39 K Ω
		R28	1.0 K Ω
		R29	10 K Ω
		R30	1 K Ω
		R31	1 K Ω 1/4 W.
		R32	3.9 K Ω
		R33	5.00 Ω 5 W.
		R34	2.2 K Ω 2 W.
		R36	1 K Ω 1/4 W.
		R37	470 Ω 1 W.

D20 THRU D26 } 1 AMP  
D29 & D31 THRU D34 }

DZ10 20 V.  
DZ21 6.2 V.

TP1 50 V.  
Q20 1A, 200V, P.N.P.  
Q21 1A, 200V, P.N.P.  
SCR1 12 A, 400 V.  
SUS 2N 4989  
F1 1/4 AMP, SLOW BLOW FUSE

#### FIRING CIRCUIT P.C. BOARD

C40, C41, C42	.022 MFD	R40, R41, R42	500 Ω 4 W.
C43, C44, C45	4.7 MFD	R43, R44, R45	15 Ω
C46, C47, C48	.047 MFD	R46, R47, R48	150 Ω
C49, C50, C51	.047 MFD	R49, R50, R51	3.3 K Ω
C52, C53, C54	.1 MFD	R52, R53, R54	6.8 K Ω
C55, C56, C57	.022 MFD	R55, R56, R57	47 K Ω
C58, C59, C60	.22 MFD	R58, R59, R60	47 Ω
C61	.022 MFD	R61, R62, R63	680 Ω
C62, C63, C64	2 MFD	R64, R65, R66	10 Ω
		R67, R68, R69	47 Ω
		R70, R71, R72	500 Ω 1/4 W.
		R73, R74, R75	100 K Ω 1/4 W.
		R76, R77, R78	330 Ω 4 W.
		R79, R80, R81	5.1 Ω
		R82, R83, R84	100 Ω

D40 THRU D54 } 1 AMP

DZ40, DZ41, DZ42 20 V. 1 W.

Q40, Q41, Q42 2N 3393, P.N.P.  
Q43, Q44, Q45 UJT

SCR1, SCR2, SCR3 12 A, 400 V.

#### NOT ON P.C. BOARDS

C1	.05 + .05 MFD	R1	50 Ω 50 W.
C2	.68 MFD.	R2	40 Ω 100 W.
C3	.68 MFD.	R3	10 K Ω 2 W.
C4	.68 MFD.	R4	50 Ω
C5	1 MFD.	R5	270 Ω
		R6	47 Ω
		R7	47 Ω
		R8	47 Ω
		R9	27 Ω

CT1, CT2, CT3 CURRENT TRANS.

L1 D.C. OUTPUT FILTER  
L2 FEEDBACK FILTER

ICR INPUT STARTER

SCR1 - D4 }  
SCR2 - D5 } HYBRID BRIDGE  
SCR3 - D6 }  
- D7 }

SW1 POWER SWITCH  
SW2 MACH. REMOTE SWITCH  
SW3 DIAL SELECTOR SWITCH

T1 MAIN TRANSFORMER  
T2 CONT. TRANSFORMER

A.N.S.I. ELECTRICAL SYMBOLS PER E-1537

THE LINCOLN ELECTRIC CO. CLEVELAND, OHIO U.S.A.	CHGESH. No. B3-78 2-25-77K 7-6-79A 4-23-77D 11-16-79 5-6-77H 2-4-79H 6-10-77A 6-24-77B 11-13-78A	TYPE IDEALARC R3R-300 (SINGLE & DUAL VOLTAGE)	SUBJECT SCHEMATIC	SUP'G'D ORG DE W. CLK	G-1461
DATE 2-11-77	SCALE				