



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 1W
C24	100 MFD.	R24	15 K Ω
C25	30 MFD.	R25	10 Ω
C26	50 MFD.	R26	100 Ω
		R27	39 K Ω
		R28	1.8 K Ω
		R29	10 K Ω
		R30	1 K Ω
		R31	1 K Ω 1/4 W.
		R32	3.9 K Ω
		R33	500 Ω 5W
		R34	2.2 K Ω 2W
		R36	1 K Ω 1/4 W.
		R37	470 Ω 1W

D20 THRU D26, D29, & D32 THRU D36 1 AMP

DZ20 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

T1 40 AMP. SLOW BLOW FUSE

FIRING CIRCUIT P.C. BOARD

C40, C41, C42	.022 MFD	R40, R41, R42	500 Ω 4W.
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 4W.
		R79, R80, R81	5.1 Ω
		R82, R83, R84	100 Ω

D40 THRU D54 1 AMP

DZ40, DZ41, DZ42 20 V. 1W.

Q40, Q41, Q42 2N 3393 N.P.N.

Q43, Q44, Q45 UJT

SCR1, SCR2, SCR3 12 A. 400V.

NOT ON P.C. BOARDS

C1	.05 + .05 MFD	R1	50 Ω 50W.
C2	.68 MFD.	R2	40 Ω 100W.
C3	.68 MFD.	R3	10 K Ω 2W.
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

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.	CHG. SH. No. 3-28-77 4-22-78 5-6-77 6-10-77 6-24-78 8-3-78	7-6-79A 2-9-79	TYPE IDEALARC R3R-300 (TRIPLE VOLTAGE)
DATE 2-11-77	SCALE		SUBJECT SCHEMATIC
			SUPPLY DRG. OR CHG. G-1462