



LEGEND

SPECIFIED VALUES OF NUMBERED COMPONENTS

CONTROL CIRCUIT P.C. BOARD

C10	.022 MFD.	R20	500 Ω 1/4 W.
C21	.22 MFD.	R21	100 Ω
C22	1.50 MFD.	R22	2.2 K Ω
C23	.047 MFD.	R23	270 Ω 1W
C24	100 MFD.	R24	15 K Ω
C25	33 MFD.	R25	10 Ω
C26	50 MFD.	R26	100 Ω
		R27	39 K Ω
		R28	1.8 K Ω
		R29	6.8 K Ω
		R30	1 K Ω
		R31	1 K Ω 1/4 W.
		R32	3.9 K Ω
		R33	200 Ω 10W
		R34	4.7 K Ω 2W
		R36	1 K Ω 1/4 W.
		R37	.330 Ω

D10 THRU D36 1AMP
 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
 F1 9/16 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	27 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	1 K Ω
C62, C63, C64	2 MFD	R64, R65, R66	10 Ω
C65, C66, C67	50 MFD	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

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

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

THE LINCOLN ELECTRIC CO. CLEVELAND, OHIO U.S.A. DATE 2-11-77 SCALE	CHG. SHE. No. 1-13-78 A SIZE 11" x 17" 3-4-77H 2-1-77 2-24-77B 3-9-77E	TYPE IDEALARC R3R-400 (SINGLE & DUAL VOLTAGE) SUBJECT SCHEMATIC SUPPLY ORG. OR CHG. G-1463
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