



**LEGEND**

SPECIFIED VALUES OF NUMBERED COMPONENTS

CONTROL CIRCUIT P.C. BOARD

C20	.022 MFD	R20	500 Ω 1/4 W.
C21	.022 MFD	R21	60 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.
DZ20	20 V.	R32	3.9 K Ω
DZ21	6.2 V.	R33	500 Ω 5W
TP1	50V	R34	2.2 K Ω 2W
TP2	150V		
TP3	150V		
D20	1A 200V P.N.P.	R36	1 K Ω 1/4 W.
D21	1A 200V P.N.P.	R37	470 Ω 1W
SCR1	4 A. 400 V.		
SUS	2N 4989		
F1	6/0 AMP SLOW BLOW FUSE		

FIRING CIRCUIT P.C. BOARD

C40, C41, C42	.02 MFD	R40, R41, R42	430 Ω 5W
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	.12 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	270 Ω 5W
		R79, R80, R81	5.1 Ω
		R82, R83, R84	100 Ω
		R85, R86, R87	68 Ω 5W.

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
D1	1 AMP	R7	47 Ω
D2	1 AMP	R8	47 Ω
D3	1 AMP	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

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.

THE LINCOLN ELECTRIC CO. CLEVELAND, OHIO U.S.A.	DATE 1-22-80 SCALE	TYPE IDEALARC R3R-300 (TRIPLE VOLTAGE) SUBJECT SCHEMATIC	NO. G-1522
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