



### 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 1/4 W.
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	6.8 K Ω
		R30	1 K Ω
		R31	500 Ω 1/4 W.
DZ20	20 V.	R32	3.9 K Ω
DZ21	6.2 V.	R33	200 Ω 10 W.
		R34	1.5 K Ω 2 W.
TPI	50 V.	R36	1 K Ω 1/4 W.
Q20	1A. 200V. P.N.P.	R37	330 Ω
Q21	1A. 200V. P.N.P.		
SCR1	12 A. 400 V.		
SUS	2N 4989		
F1	6/10 AMP SLOW BLOW FUSE		

FOR CONTROL P.C. BOARDS L9205-1 OR HIGHER USE M17160-1 SCHEMATIC FOR COMPONENT VALUES & CIRCUIT CONNECTIONS.

#### 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	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 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 N.P.N.		
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	HYBRID BRIDGE		
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. NO. 2-4947	TYPE IDEALARC R3R-500 (TRIPLE VOLTAGE)
DATE 2-11-77	SCALE	SUBJECT SCHEMATIC
		SUPP'D ORG. ON FILE
		G-1466