



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.
		R32	3.9 K Ω
		R33	2.00 Ω 10 W.
		R34	1.5 K Ω 2 W.
		R36	1 K Ω 1/4 W.
		R37	330 Ω

D20 THRU D36 1 AMP

DZ20 20 V.
DZ21 6.2 V.

TPI 50 V.
Q20 1A, 200V. P.N.P.
Q21 1A, 200V. P.N.P.
SCR1 4 A, 400 V.
SUS 2N4989
F1 9/10 AMP SLOW BLOW FUSE

FOR CONTROL P.C. BOARDS L9208-1 OR HIGHER USE M17163-1 SCHEMATIC FOR COMPONENT VALUES AND CIRCUIT CONNECTIONS.

FIRING CIRCUIT P.C. BOARD

C40, C41, C42	.022 MFD	R40, R41, R42	430 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	270 Ω 4 W.
		R79, R80, R81	5.1 Ω
		R82, R83, R84	100 Ω
		R85, R86, R87	68 Ω 4 W.

D40 THRU D54 1 AMP

DZ40, DZ41, DZ42 20 V. 1 W.

Q40, Q41, Q42 2N3393 N.P.N.
Q43, Q44, Q45 UJT

SCR1, SCR2, SCR3 4 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
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 INTERCHANGEABILITY 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 7-20-78 SCALE	TYPE IDEALARC R3R-500 (TRIPLE VOLTAGE)	SUBJECT SCHEMATIC
ARMCO 11-78 AUSTRALIA 9-78 CANADA 8-78 FRANCE 9-78		SUP'D ORG (G-1466) of LWP CLK	G-1485