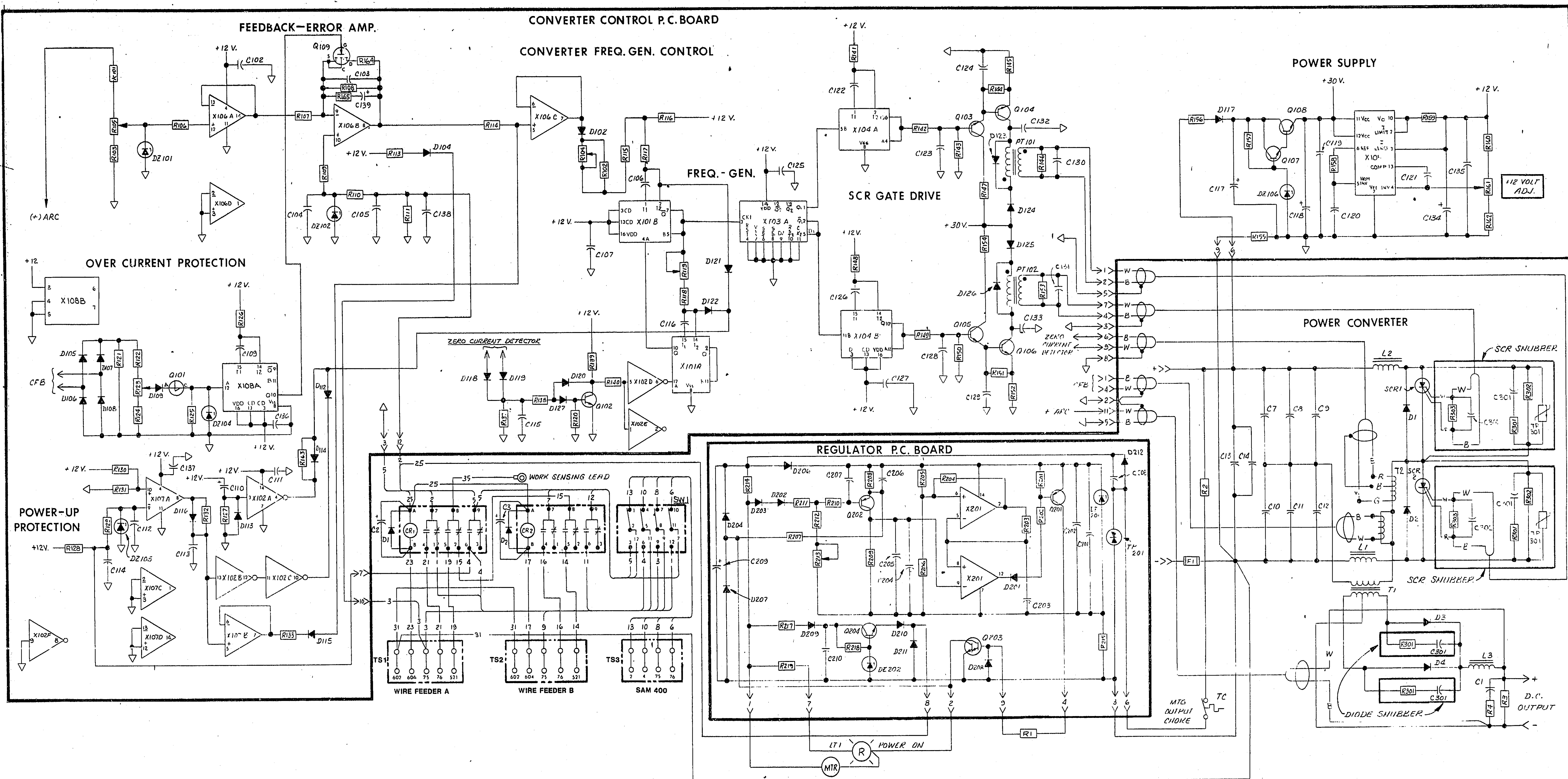




CONVERTER CONTROL P.C.BOARD

COMPONENTS ON P.C.BOARDS

REGULATOR P.C. BOARDSCR SNUBBER

COMPONENTS NOT ON P.C. BOARDS

C102 - .02	C136 - .02
C103 - .47	C137 - .02
C104 - .47	C138 - 33
C105 - .02	C139 - 4.7
C106 - .002	
C107 - .02	D102 - 75 mA, 75 V.
C109 - .022	
C110 - .47	D104 - 1.0 A, 1000 V.
C111 - .02	D105 - 1.0 A, 400 V.
C112 - .10	D106 - 1.0 A, 400 V.
C113 - .10	D107 - 1.0 A, 400 V.
C114 - .02	D108 - 1.0 A, 400 V.
C115 - .00017 / .005	D109 - 75 mA, 75 V.
C116 - .001	
C117 - .001 / 250V	
C118 - .001 / 50V	D112 - 75 mA, 75 V.
C119 - .02	D113 - 75 mA, 75 V.
C120 - .02	D114 - 75 mA, 75 V.
C121 - .02	D115 - 75 mA, 75 V.
C122 - .00075	D116 - 75 mA, 75 V.
C123 - .0005	D117 - 1.0 A, 1000 V.
C124 - .0005	D118 - 1.0 A, 400 V.
C125 - .02	D119 - 1.0 A, 400 V.
C126 - .00075	D120 - 75 mA, 75 V.
C127 - .02	D121 - 75 mA, 75 V.
C128 - .0005	D122 - 75 mA, 75 V.
C129 - .0005	D123 - 1.0 A, 400 V.
C130 - .02	D124 - 1.0 A, 400 V.
C131 - .02	D125 - 1.0 A, 400 V.
C132 - .02	D126 - 1.0 A, 400 V.
C133 - .02	D127 - 75 mA, 75 V.
C134 - 71/35V	
C139 - .02	

DZ 101-10 V., 500 mW.	K101	10K
DZ 102-6.2 V., 500 mW.	K102	33K
	K103	1K
DZ 104-10 V., 500 mW.	K108	100
DZ 105-12 V., 1 W.	K105	500
DZ 106-30 V., 1 W.	K106	10 K
	K107	10K
	K108	133
	K109	19K
G102-2N 3390	K110	100
O103-2N 5655	K111	2.2
O104-2N 5655	R113	4.7
Q105-2N 5655	R114	22 K
O106-2N 5655	R115	3.3
O107-2N 5655	R116	220
O108-2N 5655	R117	5.3
O109-2N 4351	R118	47
	R119	100
	R120	4.7
X101, X104 } DUAL MONO	R121	470
X108 } DUAL MONO	R122	10 K
	R123	10K
	R124	1K
X102 SCHMITT INV.	R125	27 K
	R126	470
X103 FLIP-FLOP	R127	330
X105 VOLT REGULATOR	R128	22
X106	R129	10 K
X107 QUAD OP AMP	R130	100
	R131	10K
	R132	150
	R133	1.5

R101	10K		
R102	33K		
R103	1K	R137	1K
R100	100 K THIM	R138	1K
R105	500 K THIM	R139	100 K
R106	10 K	R140	1K
R107	10K	R141	68K
R108	153K	R142	10K
R109	10K	R143	10K
R110	10K	R144	1K
R111	2.2K	R145	10K
		R146	27
R113	4.7K	R147	100
R114	22K	R148	68K
R115	3.3K	R149	10 K
R116	220K	R150	10 K
R117	3.3K	R151	1K
R118	47K	R152	10
R119	100 K THIM	R153	27
R120	47K	R154	100
R121	770	R155	250
R122	10K	R156	250
R123	10K THIM	R157	33K
R124	1K	R158	1K
R125	27K	R159	10
R126	470 K	R160	3.3 K
R127	330 K	R161	1K THIM
R128	22K	R162	4.7K
R129	18 K	R163	33 K
R130	10K	R164	330
R131	10K	R165	10K
R132	150 K		
R133	1.5 K		

C201	—	.02
C202	—	.02
C203	—	.047
C204	—	1.0
C205	—	.02, .022
C206	—	10
C207	—	4.7
C208	—	.02
C209	—	10 250V
C210	—	10

D201	—	1.0A, 400V
D202	—	1.0A, 400V
D203	—	1.0A, 400V
D204	—	16A, 400V

D206	—	1.0A, 400V
D207	—	1.0A, 400V
D208	—	1.0A, 400V
D209	—	1.0A, 400V
D210	—	1.0A, 400V
D211	—	1.0A, 400V
D212	—	16A, 400V

K201 - 10 K
R202 - 330
R203 - 4.7 K
R204 - 66 K
R205 - 150 K
R206 - 150 K
R207 - 4.7 K
R208 - 1K
R209 - 10 K
R210 - 10 K
R211 - 2.2 K
R212 - 1K
R213 - 2 K
R214 - .4
R215 - 1.5 K

R217 - 470
R218 - 22 K
R219 - 470

1P201 - 201/22Vpk
x201 - DUAL OP AMP

C301	—	.47
C302	—	.02
R301	—	5, 25W.
R302	—	47K, 2W.
R303	—	27, 1/2 W.
TP301	—	150 V.A.C.

DIODE SNUBBER
C301 — .47
R301 — 5,25W

0201 — 2N 6212
0202 — 2N 4125
0203 — 20A, 250 V
0204 — 2N 5655

C1	---	30 / 400V	
C2	---	170 μ 10 / 50 VDC	
C3	---	110 μ 10 / 50 VDC	
C7	---	30	
C8	---	30	400V.
C9	---	30	SCR COMMUT.
C10	---	30	CAPACITOR
C11	---	30	
C12	---	30	
C13	---	50 / 200V	
C14	---	50 / 200V	

	R1	—	250, 25 W.
	R2	—	15, 100 W.
	R3	—	20, 50 W.
	R4	—	1, 25 W.
POWER	{ D1	—	100 H., 400 V.
	{ D2	—	100 H., 400 V.
CONVERTER	{ D3	—	400 H., 400 V.
	{ D4	—	400 H., 400 V.
TERMINAL	{ D1	—	1.0 A., 400 V.
BLOCK	{ D2	—	1.0 A., 400 V.

CPI — WIRE FEELER CONTROL RELAY
CPC — WIRE FEELER CONTROL RELAY

F1 — 175 A.

L1 — SUPPRESSOR CHoke (LEFT)
L2 — SUPPRESSOR CHoke (RIGHT)
L3 — OUTPUT FILTER CHoke

SCR1 — 400 A., 600 V.
SCR2 — 400 A., 600 V.

T1 — OUTPUT TRANSFORMER
T2 — ZERO CROSSING TRANSFORMER

T4 — SCR CURRENT TRANSFORMER

SW1 — WIRE FEELER "B" PWR. SOURCE S

LT1 — 12VDC PILOT LAMP

D1 — 100H, 400V.
 D2 — 100H, 400V.
 D3 — 400H, 400V.
 D4 — 400H, 400V.
 D1 — 10H, 400V.
 D2 — 10H, 400V.

TC — THERMOSTAT
 MTR — MAIN MOTOR (24VDC)

TS1 } — WIRE FEEDER
 TS2 } — TERMINAL BLOCKS
 TS3 — SAM 400 INTERCONNECTION
 TERMINAL BLOCK.

CAPACITORS = MFD
RESISTORS = OHMS (Ω)
 = COMMON CONNECTION

COLOR	CODE
B	BLACK
W	WHITE
R	RED

ELECTRICAL SYMBOLS PER E-1537

AUST 5-82 CANADA 5-82 FRANCE

THE LINCOLN ELECTRIC CO.	EQUIP. TYPE	C. V. CONVERTER
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CLEVELAND, OHIO U. S. A. SUBJECT SCHEMATIC

SCALE  DATE 5-19-81 CHK  SLIPSTYPS