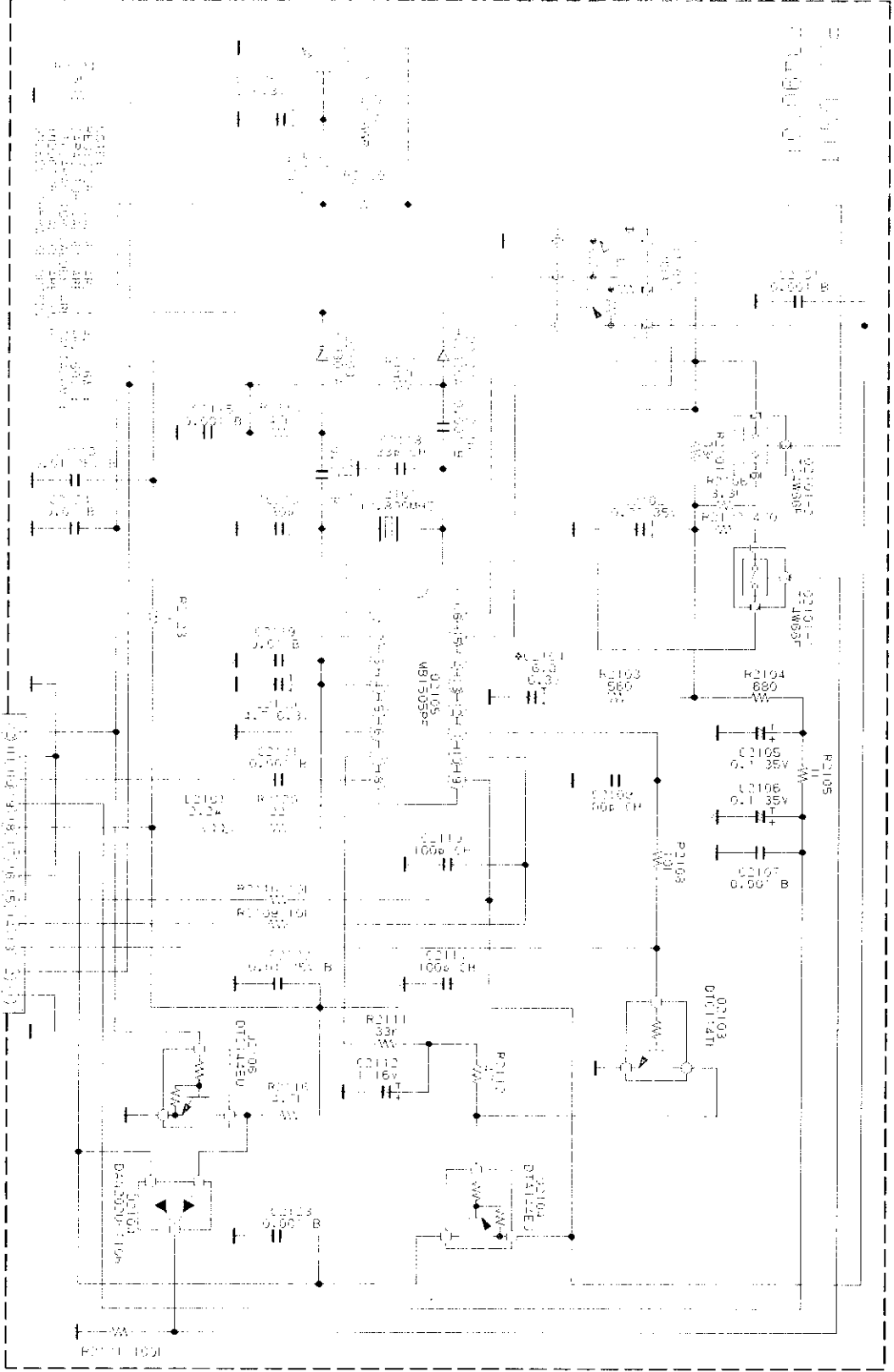


REV	DESCRIPTION	DATE	BY	CHKD
1	INITIAL	01/01/83		
2	REVISED	01/01/83		
3	REVISED	01/01/83		
4	REVISED	01/01/83		
5	REVISED	01/01/83		
6	REVISED	01/01/83		
7	REVISED	01/01/83		
8	REVISED	01/01/83		
9	REVISED	01/01/83		
10	REVISED	01/01/83		
11	REVISED	01/01/83		
12	REVISED	01/01/83		
13	REVISED	01/01/83		
14	REVISED	01/01/83		
15	REVISED	01/01/83		
16	REVISED	01/01/83		
17	REVISED	01/01/83		
18	REVISED	01/01/83		
19	REVISED	01/01/83		
20	REVISED	01/01/83		

CIRCUIT DIAGRAM MODT V-5101
 DES. BY A 3000000 APG-JHH
 REL. BP0633200 EDIT: 01.061
 DATE 10.06.1992 P3AT 17 FEB 2008
 AT&T WORLDWIDE COMM. LTD.



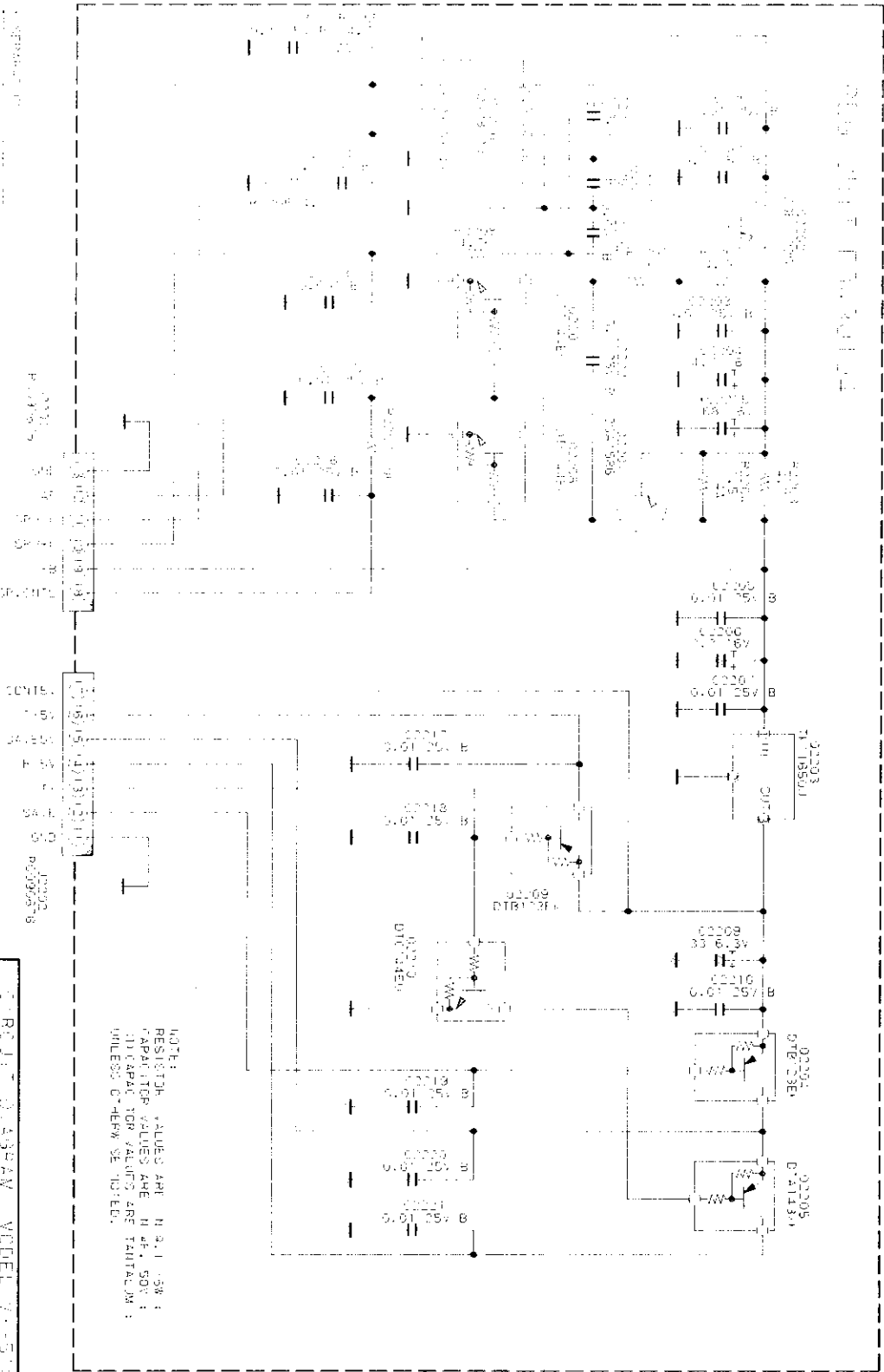
PARTS LIST
 QTY. PART NO. DESCRIPTION
 1 22101-1 TRANSFORMER
 1 22101-2 TRANSFORMER
 1 22101-3 TRANSFORMER
 1 22101-4 TRANSFORMER
 1 22101-5 TRANSFORMER
 1 22101-6 TRANSFORMER
 1 22101-7 TRANSFORMER
 1 22101-8 TRANSFORMER
 1 22101-9 TRANSFORMER
 1 22101-10 TRANSFORMER
 1 22101-11 TRANSFORMER
 1 22101-12 TRANSFORMER
 1 22101-13 TRANSFORMER
 1 22101-14 TRANSFORMER
 1 22101-15 TRANSFORMER
 1 22101-16 TRANSFORMER
 1 22101-17 TRANSFORMER
 1 22101-18 TRANSFORMER
 1 22101-19 TRANSFORMER
 1 22101-20 TRANSFORMER
 1 22101-21 TRANSFORMER
 1 22101-22 TRANSFORMER
 1 22101-23 TRANSFORMER
 1 22101-24 TRANSFORMER
 1 22101-25 TRANSFORMER
 1 22101-26 TRANSFORMER
 1 22101-27 TRANSFORMER
 1 22101-28 TRANSFORMER
 1 22101-29 TRANSFORMER
 1 22101-30 TRANSFORMER
 1 22101-31 TRANSFORMER
 1 22101-32 TRANSFORMER
 1 22101-33 TRANSFORMER
 1 22101-34 TRANSFORMER
 1 22101-35 TRANSFORMER
 1 22101-36 TRANSFORMER
 1 22101-37 TRANSFORMER
 1 22101-38 TRANSFORMER
 1 22101-39 TRANSFORMER
 1 22101-40 TRANSFORMER
 1 22101-41 TRANSFORMER
 1 22101-42 TRANSFORMER
 1 22101-43 TRANSFORMER
 1 22101-44 TRANSFORMER
 1 22101-45 TRANSFORMER
 1 22101-46 TRANSFORMER
 1 22101-47 TRANSFORMER
 1 22101-48 TRANSFORMER
 1 22101-49 TRANSFORMER
 1 22101-50 TRANSFORMER
 1 22101-51 TRANSFORMER
 1 22101-52 TRANSFORMER
 1 22101-53 TRANSFORMER
 1 22101-54 TRANSFORMER
 1 22101-55 TRANSFORMER
 1 22101-56 TRANSFORMER
 1 22101-57 TRANSFORMER
 1 22101-58 TRANSFORMER
 1 22101-59 TRANSFORMER
 1 22101-60 TRANSFORMER
 1 22101-61 TRANSFORMER
 1 22101-62 TRANSFORMER
 1 22101-63 TRANSFORMER
 1 22101-64 TRANSFORMER
 1 22101-65 TRANSFORMER
 1 22101-66 TRANSFORMER
 1 22101-67 TRANSFORMER
 1 22101-68 TRANSFORMER
 1 22101-69 TRANSFORMER
 1 22101-70 TRANSFORMER
 1 22101-71 TRANSFORMER
 1 22101-72 TRANSFORMER
 1 22101-73 TRANSFORMER
 1 22101-74 TRANSFORMER
 1 22101-75 TRANSFORMER
 1 22101-76 TRANSFORMER
 1 22101-77 TRANSFORMER
 1 22101-78 TRANSFORMER
 1 22101-79 TRANSFORMER
 1 22101-80 TRANSFORMER
 1 22101-81 TRANSFORMER
 1 22101-82 TRANSFORMER
 1 22101-83 TRANSFORMER
 1 22101-84 TRANSFORMER
 1 22101-85 TRANSFORMER
 1 22101-86 TRANSFORMER
 1 22101-87 TRANSFORMER
 1 22101-88 TRANSFORMER
 1 22101-89 TRANSFORMER
 1 22101-90 TRANSFORMER
 1 22101-91 TRANSFORMER
 1 22101-92 TRANSFORMER
 1 22101-93 TRANSFORMER
 1 22101-94 TRANSFORMER
 1 22101-95 TRANSFORMER
 1 22101-96 TRANSFORMER
 1 22101-97 TRANSFORMER
 1 22101-98 TRANSFORMER
 1 22101-99 TRANSFORMER
 1 22101-100 TRANSFORMER

1 22101-101 TRANSFORMER
 1 22101-102 TRANSFORMER
 1 22101-103 TRANSFORMER
 1 22101-104 TRANSFORMER
 1 22101-105 TRANSFORMER
 1 22101-106 TRANSFORMER
 1 22101-107 TRANSFORMER
 1 22101-108 TRANSFORMER
 1 22101-109 TRANSFORMER
 1 22101-110 TRANSFORMER
 1 22101-111 TRANSFORMER
 1 22101-112 TRANSFORMER
 1 22101-113 TRANSFORMER
 1 22101-114 TRANSFORMER
 1 22101-115 TRANSFORMER
 1 22101-116 TRANSFORMER
 1 22101-117 TRANSFORMER
 1 22101-118 TRANSFORMER
 1 22101-119 TRANSFORMER
 1 22101-120 TRANSFORMER
 1 22101-121 TRANSFORMER
 1 22101-122 TRANSFORMER
 1 22101-123 TRANSFORMER
 1 22101-124 TRANSFORMER
 1 22101-125 TRANSFORMER
 1 22101-126 TRANSFORMER
 1 22101-127 TRANSFORMER
 1 22101-128 TRANSFORMER
 1 22101-129 TRANSFORMER
 1 22101-130 TRANSFORMER
 1 22101-131 TRANSFORMER
 1 22101-132 TRANSFORMER
 1 22101-133 TRANSFORMER
 1 22101-134 TRANSFORMER
 1 22101-135 TRANSFORMER
 1 22101-136 TRANSFORMER
 1 22101-137 TRANSFORMER
 1 22101-138 TRANSFORMER
 1 22101-139 TRANSFORMER
 1 22101-140 TRANSFORMER
 1 22101-141 TRANSFORMER
 1 22101-142 TRANSFORMER
 1 22101-143 TRANSFORMER
 1 22101-144 TRANSFORMER
 1 22101-145 TRANSFORMER
 1 22101-146 TRANSFORMER
 1 22101-147 TRANSFORMER
 1 22101-148 TRANSFORMER
 1 22101-149 TRANSFORMER
 1 22101-150 TRANSFORMER

22101-151 TRANSFORMER
 22101-152 TRANSFORMER
 22101-153 TRANSFORMER
 22101-154 TRANSFORMER
 22101-155 TRANSFORMER
 22101-156 TRANSFORMER
 22101-157 TRANSFORMER
 22101-158 TRANSFORMER
 22101-159 TRANSFORMER
 22101-160 TRANSFORMER
 22101-161 TRANSFORMER
 22101-162 TRANSFORMER
 22101-163 TRANSFORMER
 22101-164 TRANSFORMER
 22101-165 TRANSFORMER
 22101-166 TRANSFORMER
 22101-167 TRANSFORMER
 22101-168 TRANSFORMER
 22101-169 TRANSFORMER
 22101-170 TRANSFORMER
 22101-171 TRANSFORMER
 22101-172 TRANSFORMER
 22101-173 TRANSFORMER
 22101-174 TRANSFORMER
 22101-175 TRANSFORMER
 22101-176 TRANSFORMER
 22101-177 TRANSFORMER
 22101-178 TRANSFORMER
 22101-179 TRANSFORMER
 22101-180 TRANSFORMER
 22101-181 TRANSFORMER
 22101-182 TRANSFORMER
 22101-183 TRANSFORMER
 22101-184 TRANSFORMER
 22101-185 TRANSFORMER
 22101-186 TRANSFORMER
 22101-187 TRANSFORMER
 22101-188 TRANSFORMER
 22101-189 TRANSFORMER
 22101-190 TRANSFORMER
 22101-191 TRANSFORMER
 22101-192 TRANSFORMER
 22101-193 TRANSFORMER
 22101-194 TRANSFORMER
 22101-195 TRANSFORMER
 22101-196 TRANSFORMER
 22101-197 TRANSFORMER
 22101-198 TRANSFORMER
 22101-199 TRANSFORMER
 22101-200 TRANSFORMER

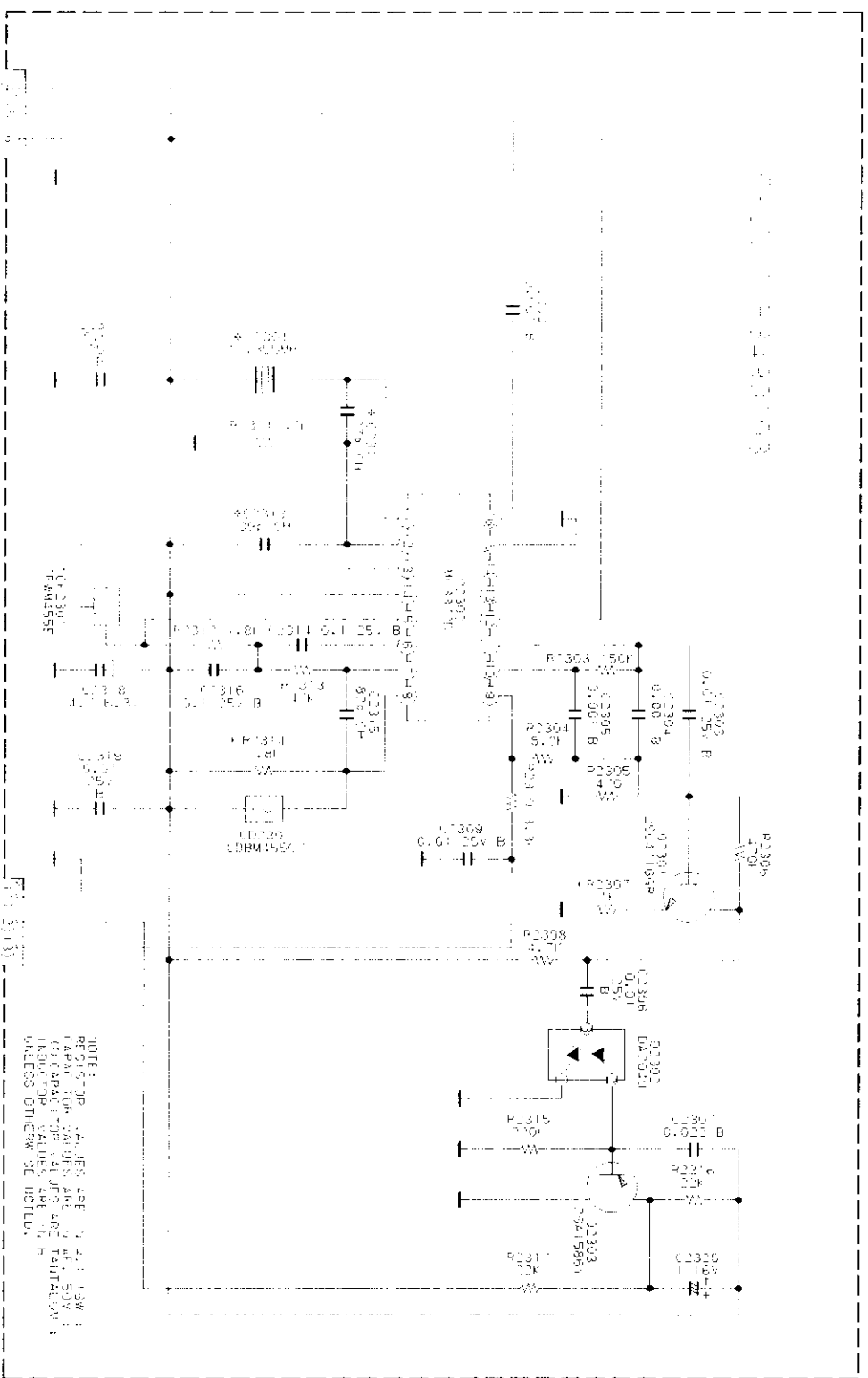
J 9111 0 APRAM MODEL V-510L
 DES. BY A12280000 PUL. 041
 REF. BR0003300 ED. T. 01. 064
 DATE 02. 09. 1981 UPDATE 17 FEB. 1993
 IARSU MOSEL CO., LTD

REC. UNIT PORTAL



NOTES:
RESISTOR VALUES ARE IN Ω, K, Ω, M;
CAPACITOR VALUES ARE IN μF, P, N;
+ TO CAPACITOR VALUES ARE TANTALUM;
UNLESS OTHERWISE SPECIFIED.

REV. 1	0	ASB	WHEEL
REV. 2	1	ASB	WHEEL
REV. 3	2	ASB	WHEEL
REV. 4	3	ASB	WHEEL
REV. 5	4	ASB	WHEEL
REV. 6	5	ASB	WHEEL
REV. 7	6	ASB	WHEEL
REV. 8	7	ASB	WHEEL
REV. 9	8	ASB	WHEEL
REV. 10	9	ASB	WHEEL
REV. 11	10	ASB	WHEEL
REV. 12	11	ASB	WHEEL
REV. 13	12	ASB	WHEEL
REV. 14	13	ASB	WHEEL
REV. 15	14	ASB	WHEEL
REV. 16	15	ASB	WHEEL
REV. 17	16	ASB	WHEEL
REV. 18	17	ASB	WHEEL
REV. 19	18	ASB	WHEEL
REV. 20	19	ASB	WHEEL
REV. 21	20	ASB	WHEEL
REV. 22	21	ASB	WHEEL
REV. 23	22	ASB	WHEEL
REV. 24	23	ASB	WHEEL
REV. 25	24	ASB	WHEEL
REV. 26	25	ASB	WHEEL
REV. 27	26	ASB	WHEEL
REV. 28	27	ASB	WHEEL
REV. 29	28	ASB	WHEEL
REV. 30	29	ASB	WHEEL
REV. 31	30	ASB	WHEEL
REV. 32	31	ASB	WHEEL
REV. 33	32	ASB	WHEEL
REV. 34	33	ASB	WHEEL
REV. 35	34	ASB	WHEEL
REV. 36	35	ASB	WHEEL
REV. 37	36	ASB	WHEEL
REV. 38	37	ASB	WHEEL
REV. 39	38	ASB	WHEEL
REV. 40	39	ASB	WHEEL
REV. 41	40	ASB	WHEEL
REV. 42	41	ASB	WHEEL
REV. 43	42	ASB	WHEEL
REV. 44	43	ASB	WHEEL
REV. 45	44	ASB	WHEEL
REV. 46	45	ASB	WHEEL
REV. 47	46	ASB	WHEEL
REV. 48	47	ASB	WHEEL
REV. 49	48	ASB	WHEEL
REV. 50	49	ASB	WHEEL
REV. 51	50	ASB	WHEEL
REV. 52	51	ASB	WHEEL
REV. 53	52	ASB	WHEEL
REV. 54	53	ASB	WHEEL
REV. 55	54	ASB	WHEEL
REV. 56	55	ASB	WHEEL
REV. 57	56	ASB	WHEEL
REV. 58	57	ASB	WHEEL
REV. 59	58	ASB	WHEEL
REV. 60	59	ASB	WHEEL
REV. 61	60	ASB	WHEEL
REV. 62	61	ASB	WHEEL
REV. 63	62	ASB	WHEEL
REV. 64	63	ASB	WHEEL
REV. 65	64	ASB	WHEEL
REV. 66	65	ASB	WHEEL
REV. 67	66	ASB	WHEEL
REV. 68	67	ASB	WHEEL
REV. 69	68	ASB	WHEEL
REV. 70	69	ASB	WHEEL
REV. 71	70	ASB	WHEEL
REV. 72	71	ASB	WHEEL
REV. 73	72	ASB	WHEEL
REV. 74	73	ASB	WHEEL
REV. 75	74	ASB	WHEEL
REV. 76	75	ASB	WHEEL
REV. 77	76	ASB	WHEEL
REV. 78	77	ASB	WHEEL
REV. 79	78	ASB	WHEEL
REV. 80	79	ASB	WHEEL
REV. 81	80	ASB	WHEEL
REV. 82	81	ASB	WHEEL
REV. 83	82	ASB	WHEEL
REV. 84	83	ASB	WHEEL
REV. 85	84	ASB	WHEEL
REV. 86	85	ASB	WHEEL
REV. 87	86	ASB	WHEEL
REV. 88	87	ASB	WHEEL
REV. 89	88	ASB	WHEEL
REV. 90	89	ASB	WHEEL
REV. 91	90	ASB	WHEEL
REV. 92	91	ASB	WHEEL
REV. 93	92	ASB	WHEEL
REV. 94	93	ASB	WHEEL
REV. 95	94	ASB	WHEEL
REV. 96	95	ASB	WHEEL
REV. 97	96	ASB	WHEEL
REV. 98	97	ASB	WHEEL
REV. 99	98	ASB	WHEEL
REV. 100	99	ASB	WHEEL



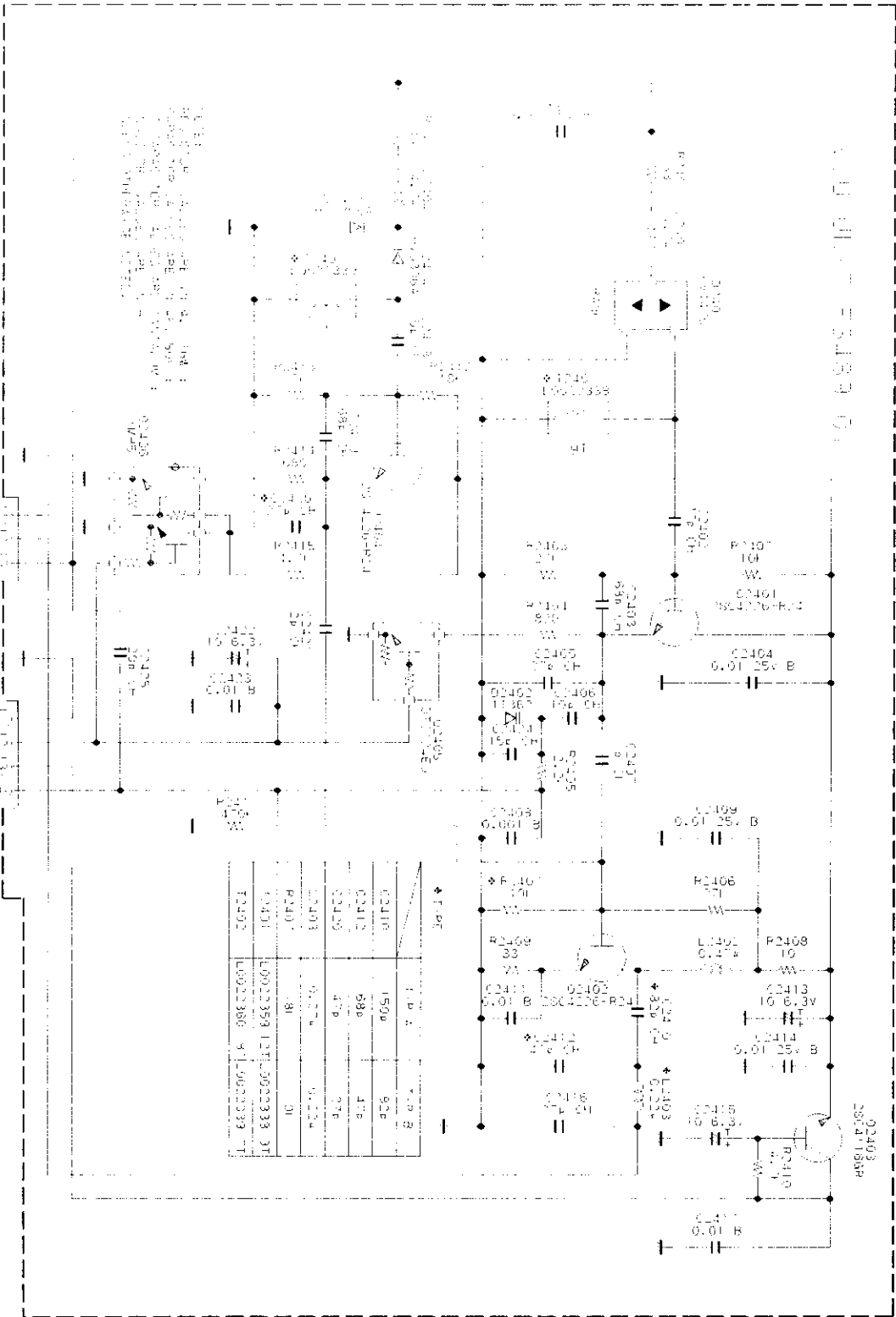
REPAIR DATA

TEST POINT	VOLTS	RESISTANCE
TP1	125.0	1.00
TP2	125.0	1.00
TP3	125.0	1.00
TP4	125.0	1.00
TP5	125.0	1.00
TP6	125.0	1.00
TP7	125.0	1.00
TP8	125.0	1.00
TP9	125.0	1.00
TP10	125.0	1.00
TP11	125.0	1.00
TP12	125.0	1.00
TP13	125.0	1.00
TP14	125.0	1.00
TP15	125.0	1.00
TP16	125.0	1.00
TP17	125.0	1.00
TP18	125.0	1.00
TP19	125.0	1.00
TP20	125.0	1.00
TP21	125.0	1.00
TP22	125.0	1.00
TP23	125.0	1.00
TP24	125.0	1.00
TP25	125.0	1.00
TP26	125.0	1.00
TP27	125.0	1.00
TP28	125.0	1.00
TP29	125.0	1.00
TP30	125.0	1.00

NOTE:
 RESISTOR VALUES ARE 1/4% TOL
 CAPACITOR VALUES ARE 5% TOL
 INDUCTOR VALUES ARE 5% TOL
 UNLESS OTHERWISE INDICATED

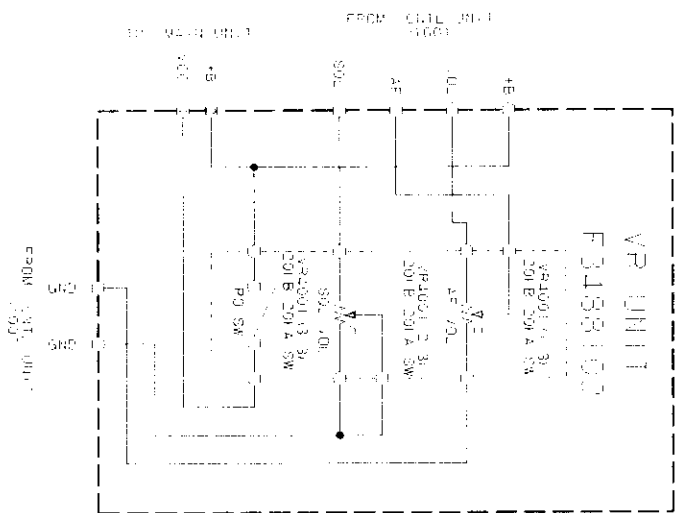
CIRCUIT DIAGRAM MODEL V-510L
 DES. E-A1326550 11-81
 REF. EFP033505
 DATE 02 SEP 1981
 IAFSU MODEL 03-LLD

02403 29/24/1984

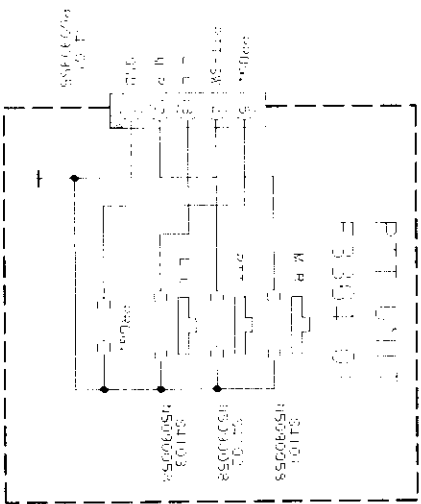


REF	VALUE	UNIT	DESCRIPTION
R2401	1500	Ω	RESISTOR
R2402	88	Ω	RESISTOR
R2403	47	Ω	RESISTOR
R2404	10	Ω	RESISTOR
R2405	1000000	Ω	RESISTOR
R2406	1000000	Ω	RESISTOR
R2407	10	Ω	RESISTOR
R2408	10	Ω	RESISTOR
R2409	10	Ω	RESISTOR
R2410	10	Ω	RESISTOR

I-REL 0 AMPAR MODEL V-510
 DES. 8-A13260000 900 0011
 REF. 820233000
 DATE 01/01/93 UPRATE FEB. 94
 CAESO MOSEN CO., LTD

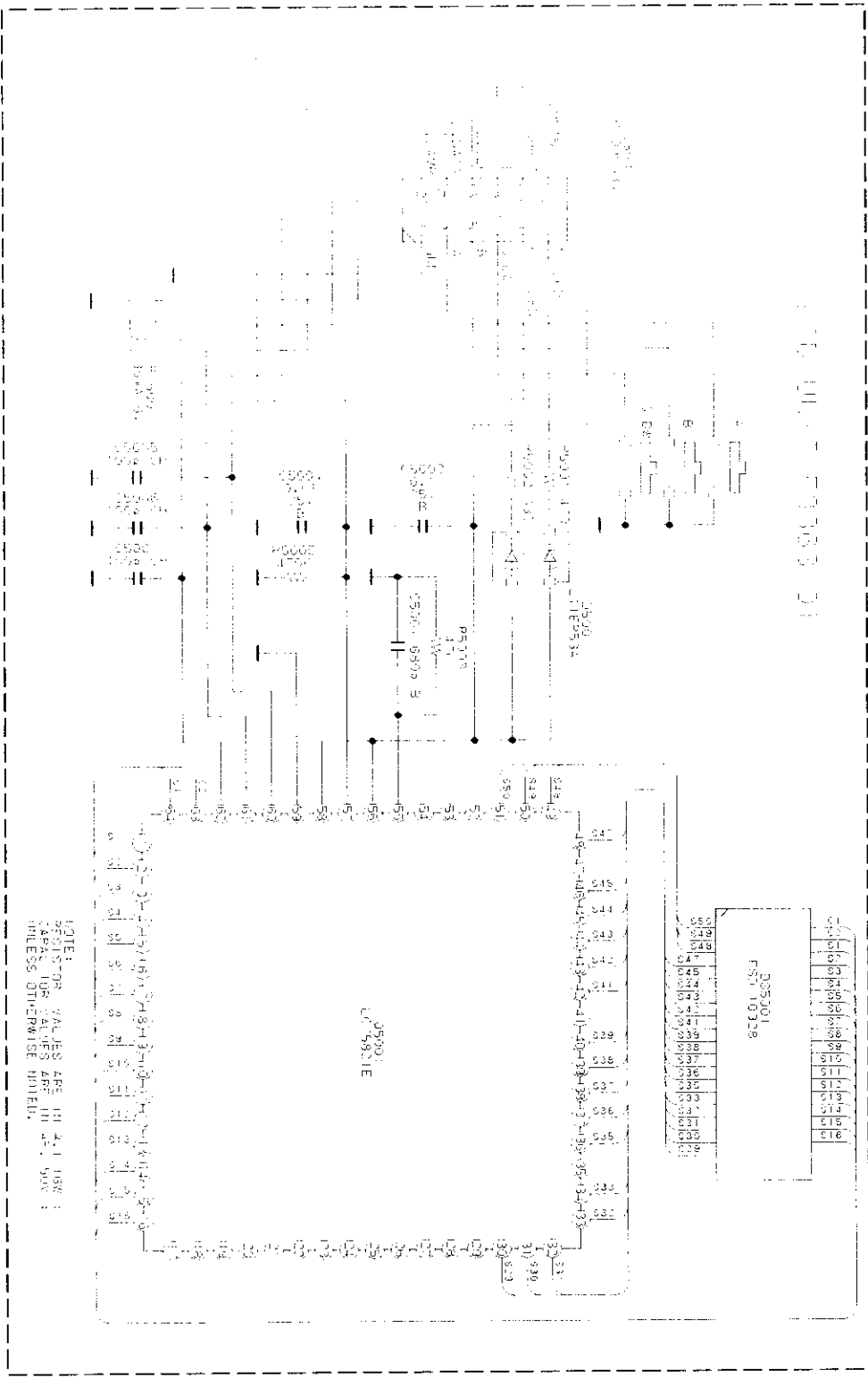


C. ROBERT S. ARRAY	MODEL 47-5101
DES. B-A13350000	VP-UNIT
REF. 3P0033800	EDITION 084
DATE 26 OCT 1991	UPDATE 17 FEB 1993
LAESU WDSN 20... CTG	



CIRCUIT DIAGRAM MODEL 11-5-01
 DES. B-413260000 P.T. D111
 REF. BR0033900 EQUIP. 004
 DATE 28 OCT. 1998 UPGRADE 17 FEB. 1998
 AFSI, MUSEN, CO., LTD.

05001 - 05005 (1)

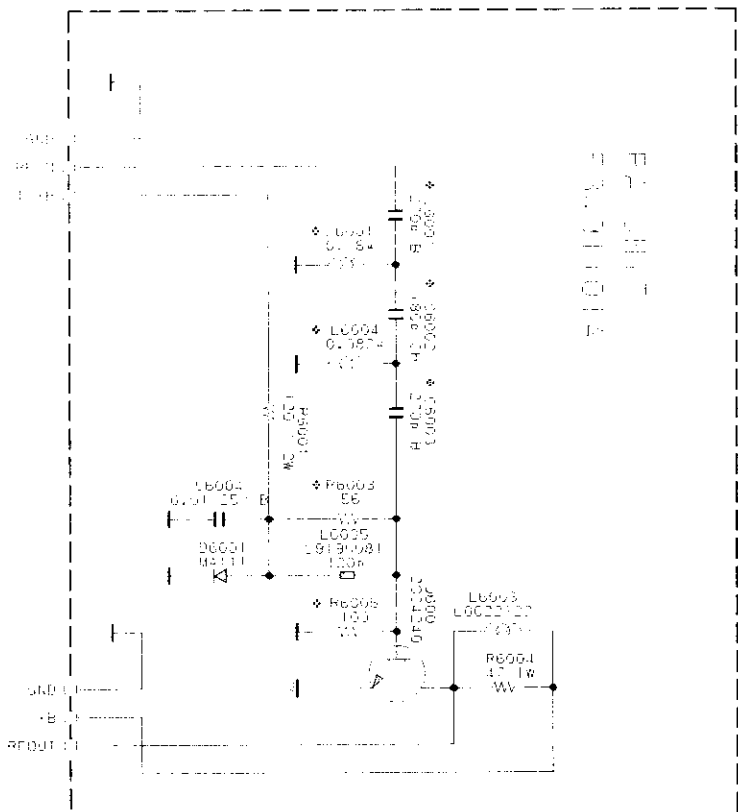


05001	05002	05003	05004	05005	05006	05007	05008	05009	05010	05011	05012	05013	05014	05015	05016	05017	05018	05019	05020
05021	05022	05023	05024	05025	05026	05027	05028	05029	05030	05031	05032	05033	05034	05035	05036	05037	05038	05039	05040

NOTE: RESISTOR VALUES ARE IN Ω, KΩ, MΩ, CAPACITOR VALUES ARE IN pF, nF, μF, UNLESS OTHERWISE NOTED.

CIRCUIT DIAGRAM MODEL NO. 512	05001
REV. B 2/26/0000 LCD UNIT	05002
REF. BP0034000 EDITION 064	05003
DATE 10 SEP 1991 UPDATE 17 FEB 1998	05004
JAESU WUSFH CO., LTD	05005

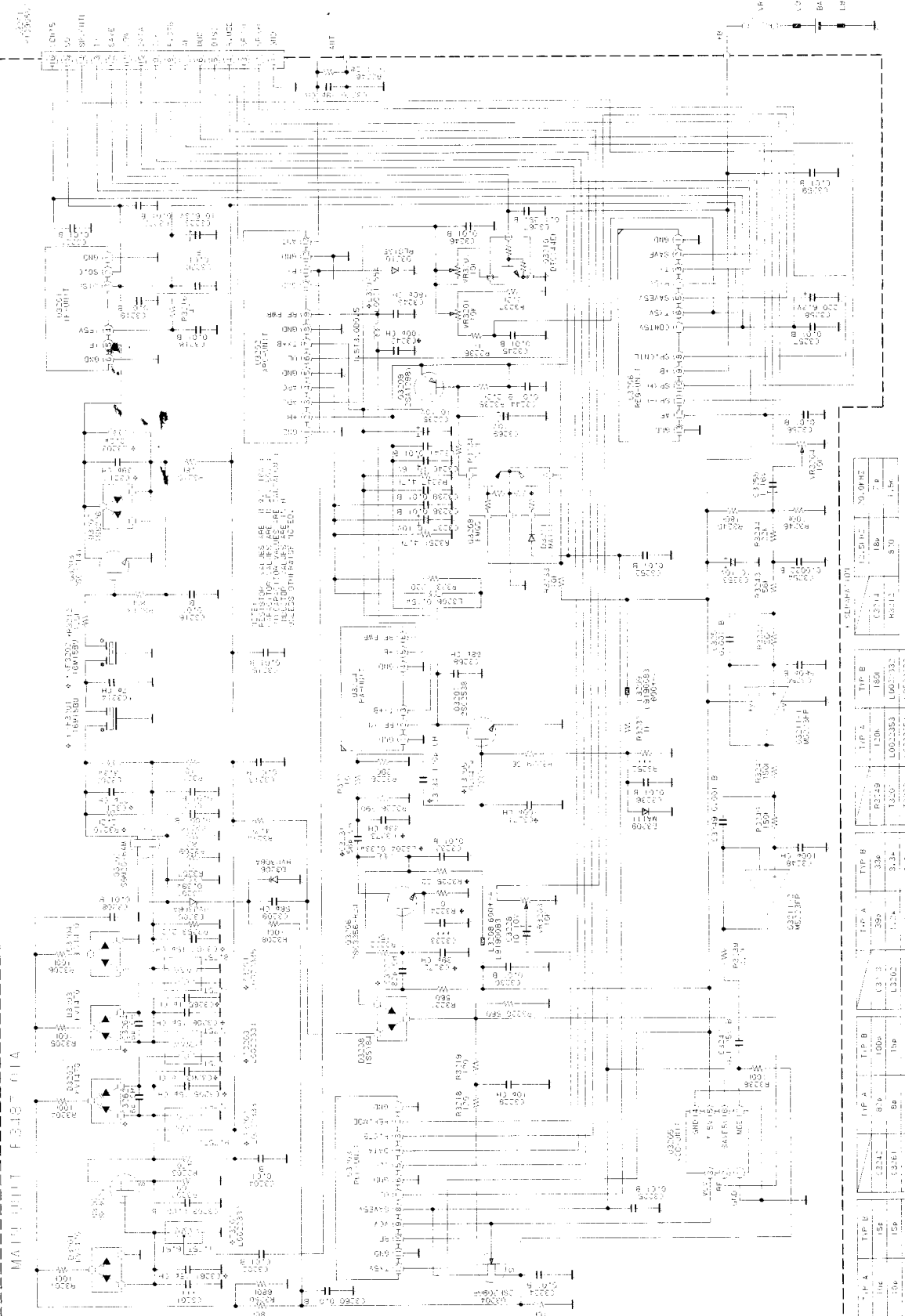
FIGURE 1
Schematic



NOTE:
RESISTOR VALUES ARE IN OHMS
INDUCTOR VALUES ARE IN MH
INDUCTOR VALUES ARE IN MH
RESISTOR VALUES ARE IN OHMS
RESISTOR VALUES ARE IN OHMS

* TYPE	T.P. A	T.P. B
P8001	330Ω	270Ω
P8002	220Ω	180Ω
P8003	330Ω	270Ω
L8001	0.22μH	0.18μH
L8002	0.10μH	0.082μH
R8003	2Ω	5Ω
R8005		25Ω

CIRCUIT DRAWN: MCDL VLS 510L
 DESIGNED BY: 673580000 P3 001
 REF: BP003108 ECU FOR 904
 DATE OF DTL: 1993 JEDATE: 17 FEB 1999
 DESIGNED BY: JEDS MOSEY D.L. JR



MAINT UNIT E-349T-01A

TYPE D

TYPE D	TYPE B
4.5V	1.5V
0.05W	0.02W
0.0008W	0.0001W
0.0001W	0.0001W
0.0001W	0.0001W

TYPE E

TYPE E	TYPE B
1.5V	0.9V
0.02W	0.005W
0.0001W	0.0001W
0.0001W	0.0001W
0.0001W	0.0001W

TYPE F

TYPE F	TYPE B	TYPE C
1.5V	0.9V	0.9V
0.02W	0.005W	0.005W
0.0001W	0.0001W	0.0001W
0.0001W	0.0001W	0.0001W
0.0001W	0.0001W	0.0001W

TYPE G

TYPE G	TYPE B	TYPE C
1.5V	0.9V	0.9V
0.02W	0.005W	0.005W
0.0001W	0.0001W	0.0001W
0.0001W	0.0001W	0.0001W
0.0001W	0.0001W	0.0001W

REVISIONS

NO.	DESCRIPTION	DATE	BY	CHKD.
1	ASSEMBLY	SEP 1951		
2	REVISIONS			

MAINT UNIT E-349T-01A

TYPE D

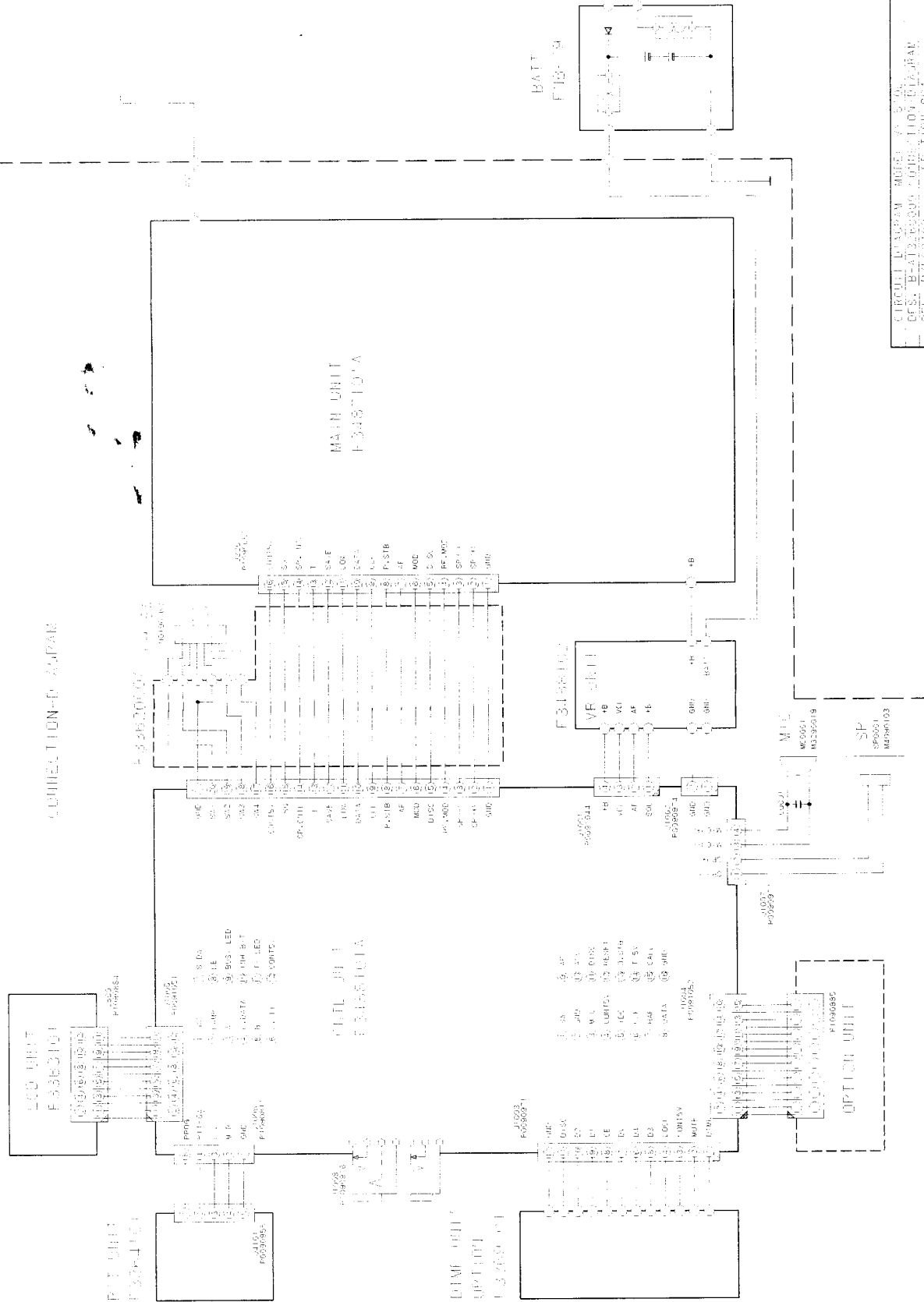
TYPE E

TYPE F

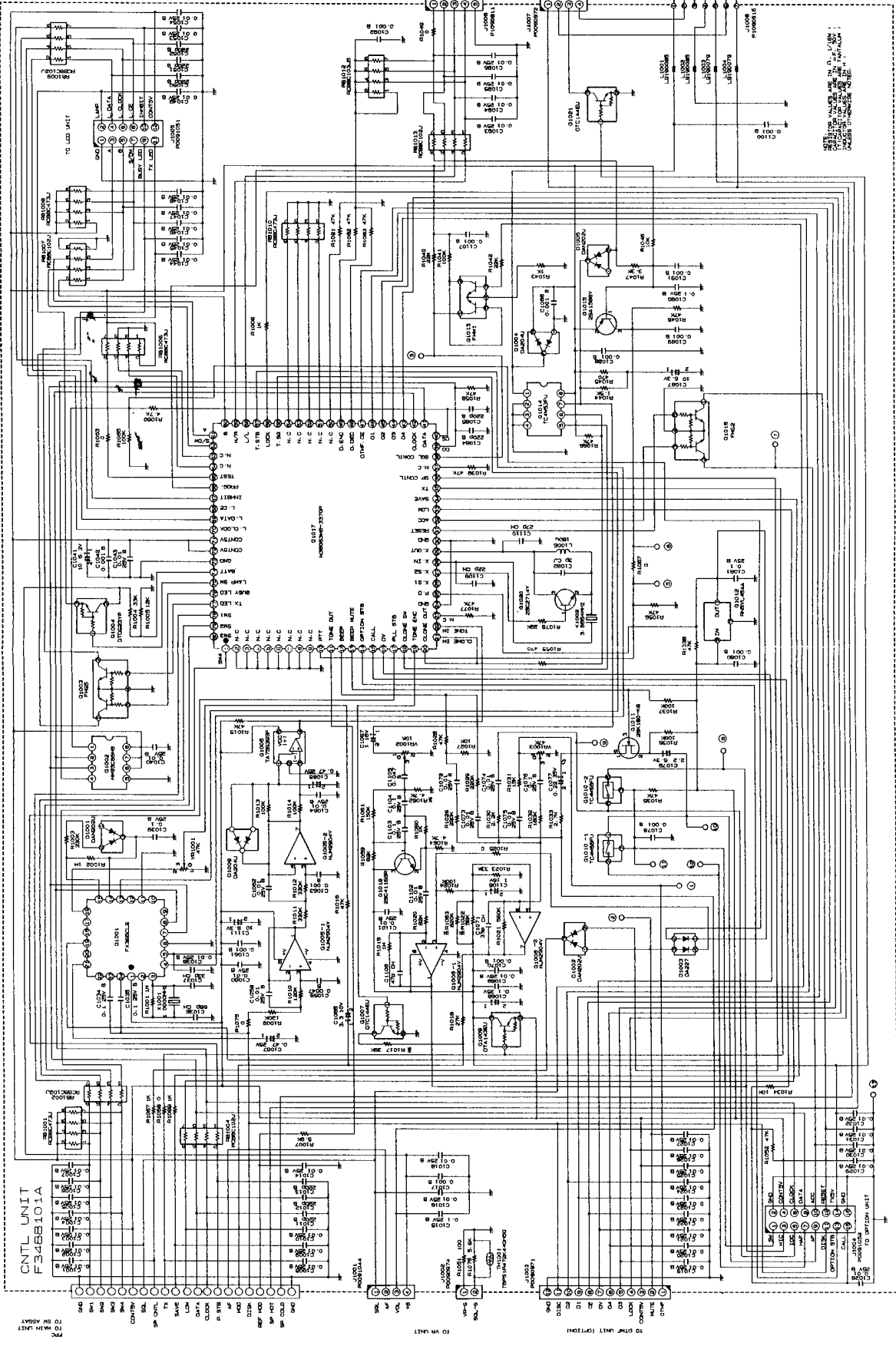
TYPE G

1

CONNECTION-P-44PAIR



CIRCUIT DRAWING - 44PAIR - 10/10/68
 DESIGNED BY: J. J. JOHNSON
 CHECKED BY: J. J. JOHNSON
 DATE: 10/10/68
 DRAWING NO.: 44PAIR-10/10/68



CNTL UNIT
F34BB101A

REV. 1

TYPE A	TYPE B	TYPE C	TYPE D	TYPE E
11017	11058	11058	11058	11058
30K	30K	30K	30K	30K
4.7K	4.7K	4.7K	4.7K	4.7K

CIRCUIT DIAGRAM MODEL VX-510L
DES. BY 1356000/CNTL UNIT
REV. 10/68
DATE 23 FEB 1968
VAESU WUSEN CO., LTD
11 37