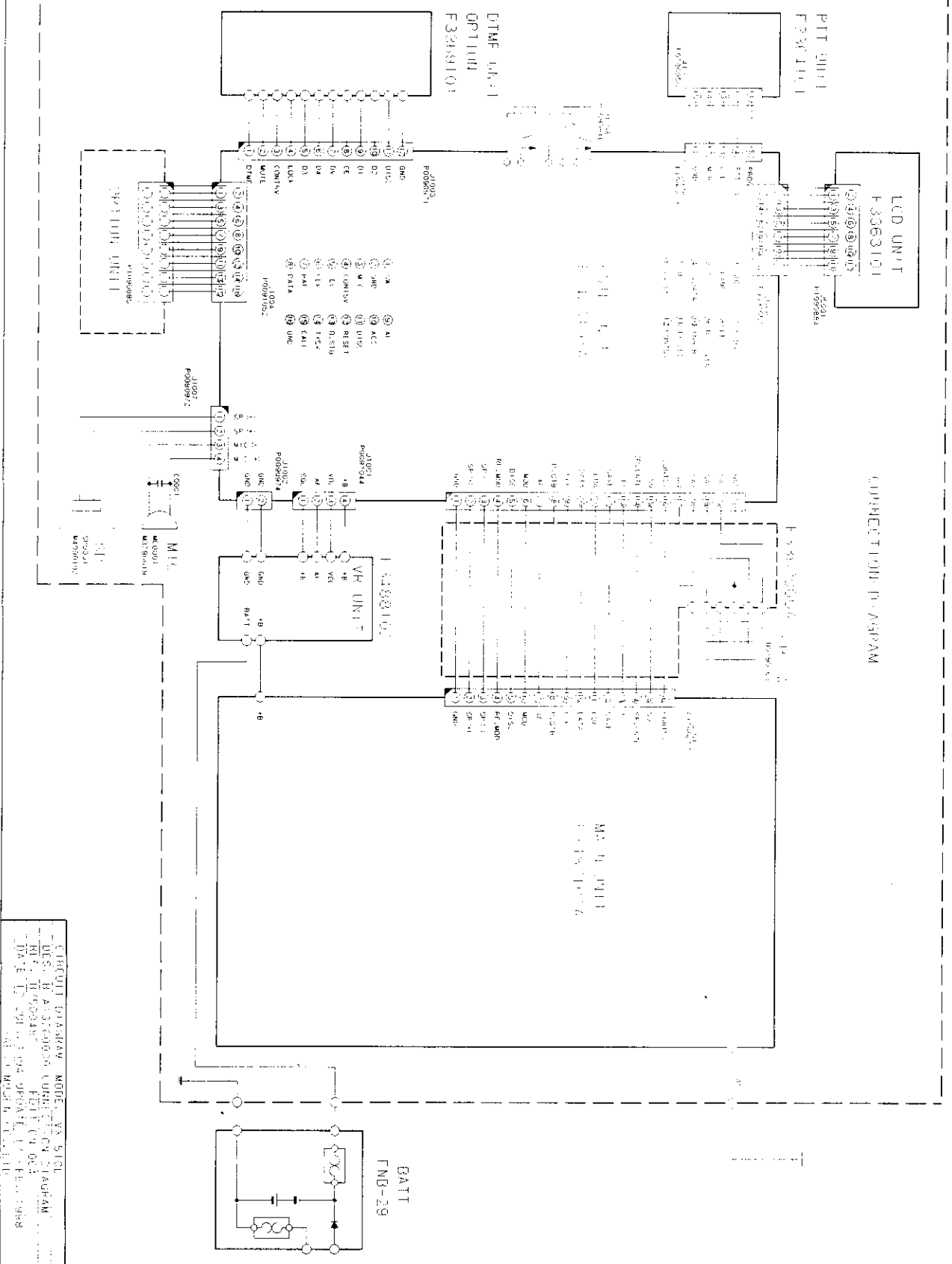


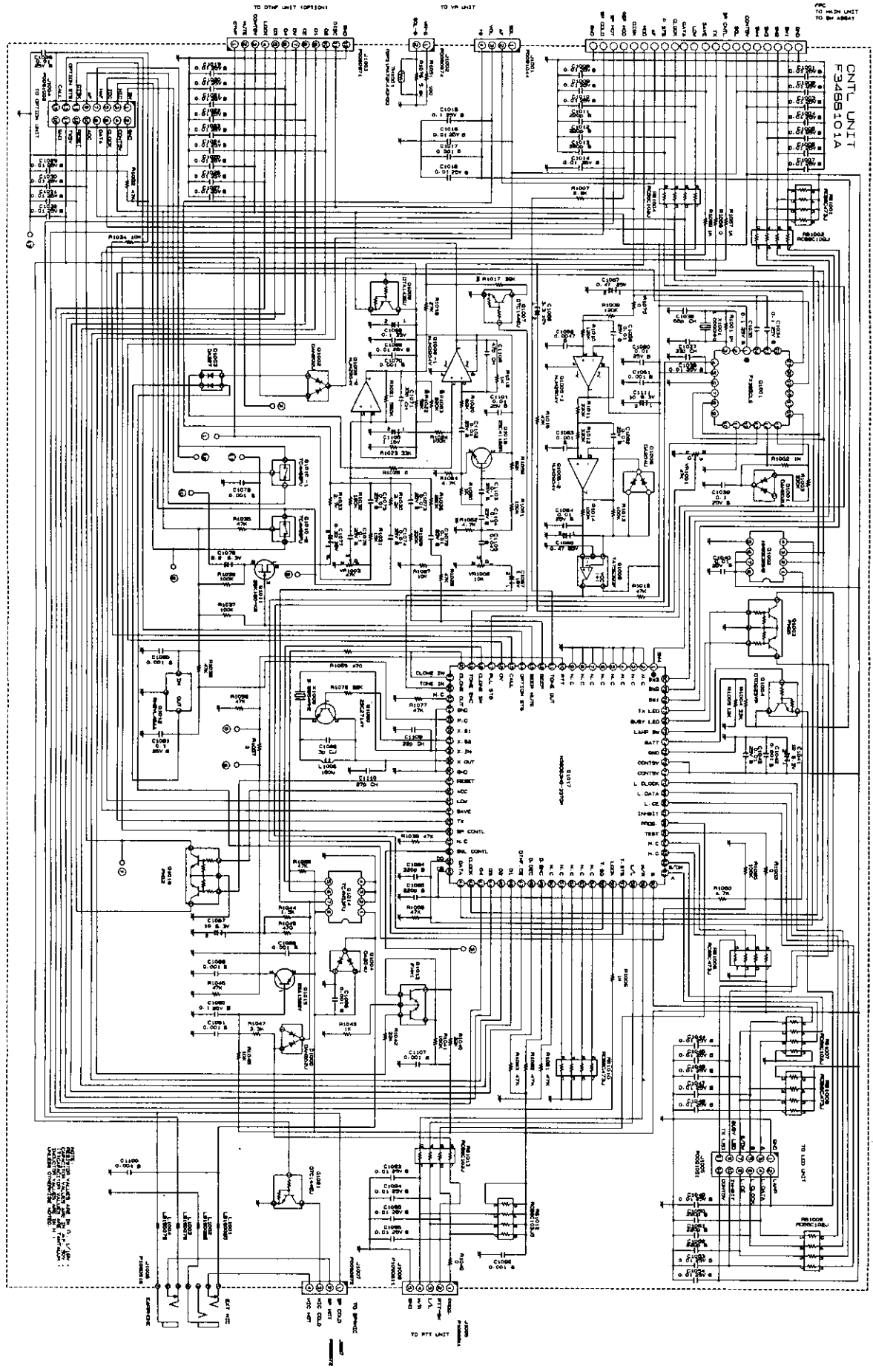
CONNECTION DIAGRAM



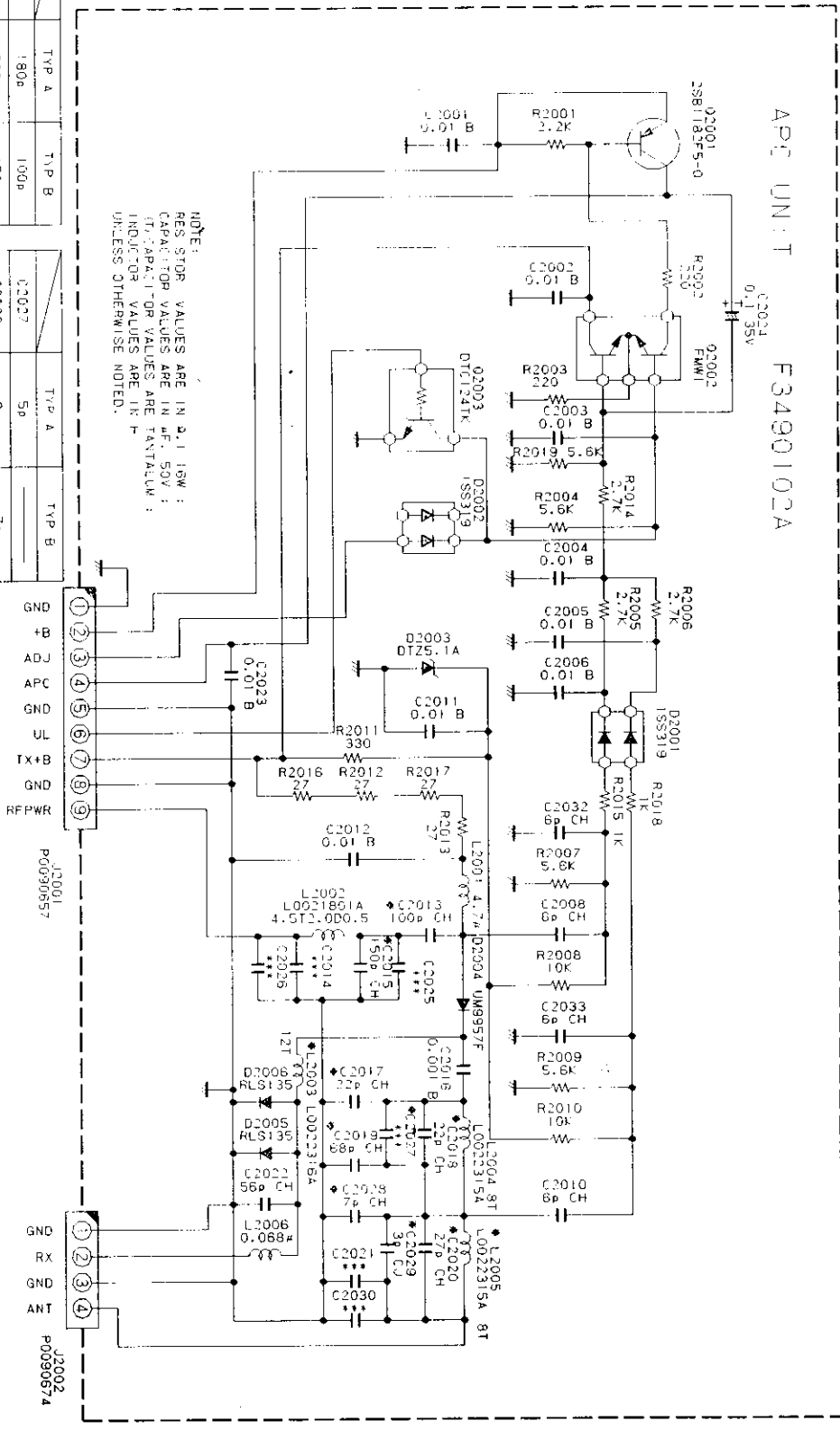
CIRCUIT DRAWING MODE: 2X SIZE
 DES: B.A.3:600056 UNDER DEV. DIAGRAM
 REV: B:060848 FOLIO 19 OUT
 DATE: 12/91 194 OPERA.F. 17 FEB 1988
 S. S. WORK CENTER

E TYPE		ALOT	ALDIB	ALIBIB	ALIBIA
TYPE A	300	300	300	300	300
TYPE B	300	300	300	300	300

CIRCUIT DIAGRAM MODEL VX-510
 DES. B-1135000/CNTL UNIT EDITION
 REF. B-0003700 C17/001 INT EDITION
 DATE 23 FEB. 1958 UPGATE 28 FEB. 1960
 VESCO WASEN CO. LTD
 Yamanashi, 1958-02-25 11-37



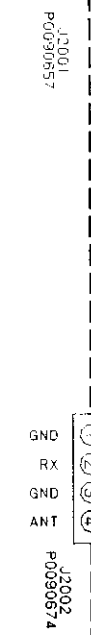
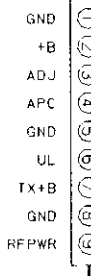
APC UNIT F3490102A



NOTE: RES STOR. VALUES ARE IN 2.1 ISW;
CAPACITOR VALUES ARE IN uF, SOV;
INDUCTOR VALUES ARE IN TANTALUM;
INDUCTOR VALUES ARE IN H
UNLESS OTHERWISE NOTED.

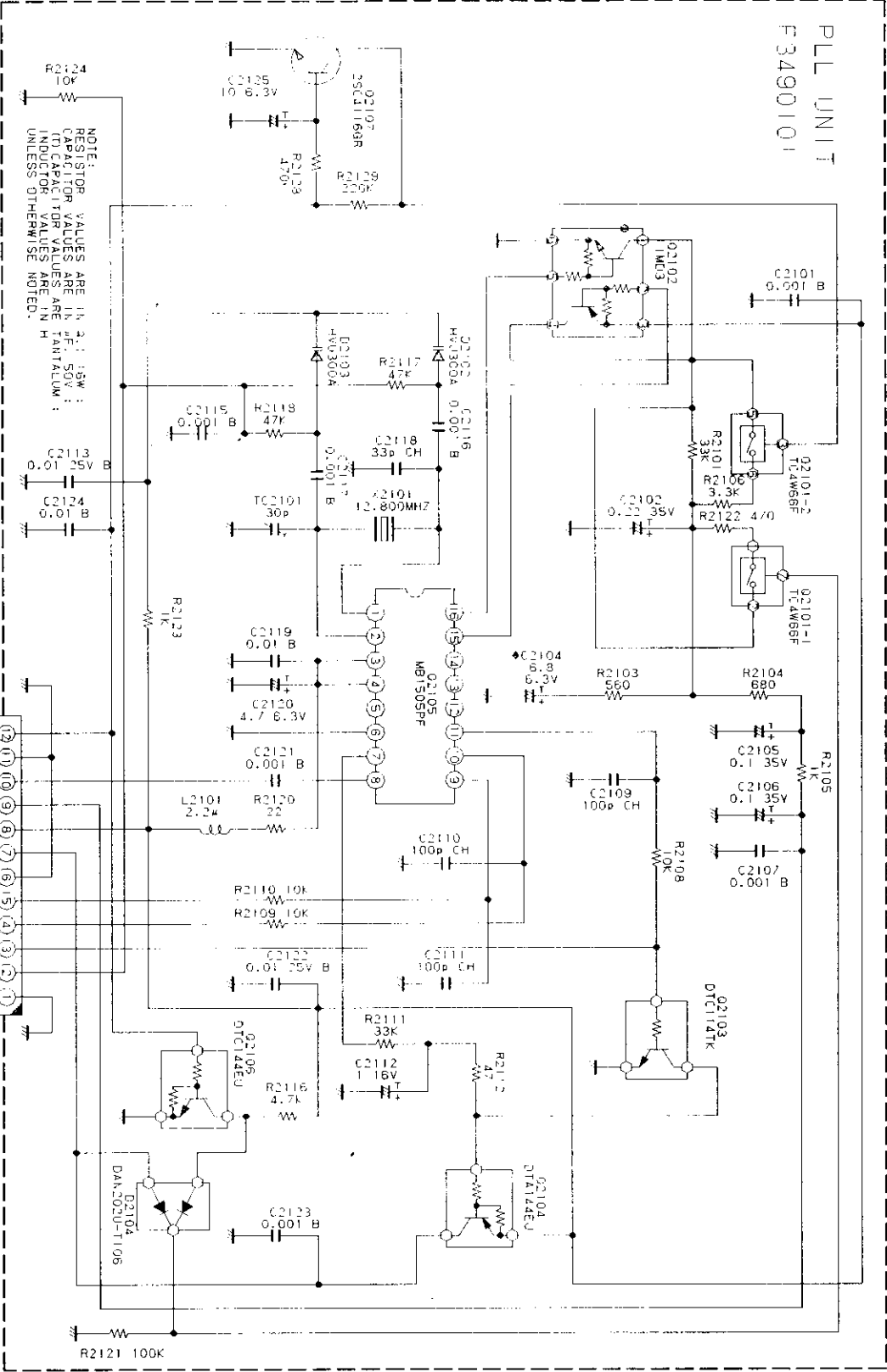
TYPE	TYP A	TYP B
C2013	180p	100p
C2015	230p	150p
C2017	47p	22p
C2018	47p	22p
C2019	100p	68p
C2020	18p	27p

TYPE	TYP A	TYP B
C2027	5p	
C2028	8p	7p
C2029		3p
L2003	L0022357 14T	L0022316A 12T
L2005	L0022358 10T	L0022315A 8T



CIRCUIT DIAGRAM MODEL VX-510L
DES. B-A13260000/APC-UNIT
REF. BP0033200 EDITION 064
DATE 13 OCT.. 1993 UPDATE 17 FEB.. 1998
YAESU MUSEN CO., LTD

PLL UNIT
F3490101



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

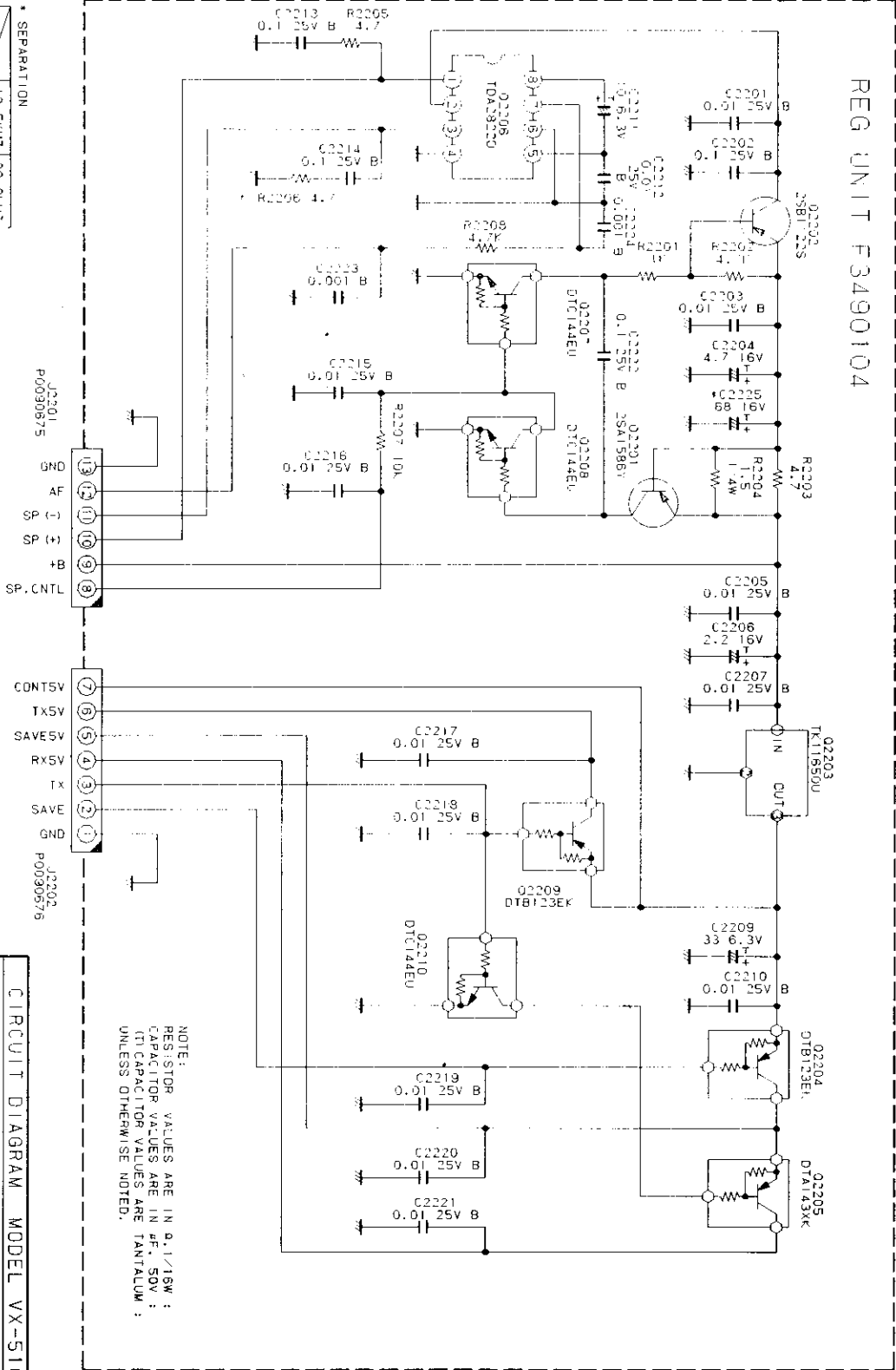
TYPE	TYP A	TYP B
C2104	10μ/6.3V	6.8μ/6.3V

- TX5V
- GND
- RF
- VCV
- SAVE5V
- UL
- GND
- CLK
- DATA
- P.STB
- REF.MOD
- GND

J2101
P0090577

CIRCUIT DIAGRAM MODEL Vx-510L
DES. B-A13260000/PLL-UNIT
REF. BP0033300 EDITION 064
DATE 02 OCT., 1991 UPDATE 17 FEB., 1998
YAESU MUSEN CO., LTD

REG UNIT F3490104



NOTE:
 RESISTOR VALUES ARE IN Ω, 1/16W ;
 CAPACITOR VALUES ARE IN μF, SOV ;
 (T) CAPACITOR VALUES ARE TANTALUM ;
 UNLESS OTHERWISE NOTED.

* SEPARATION

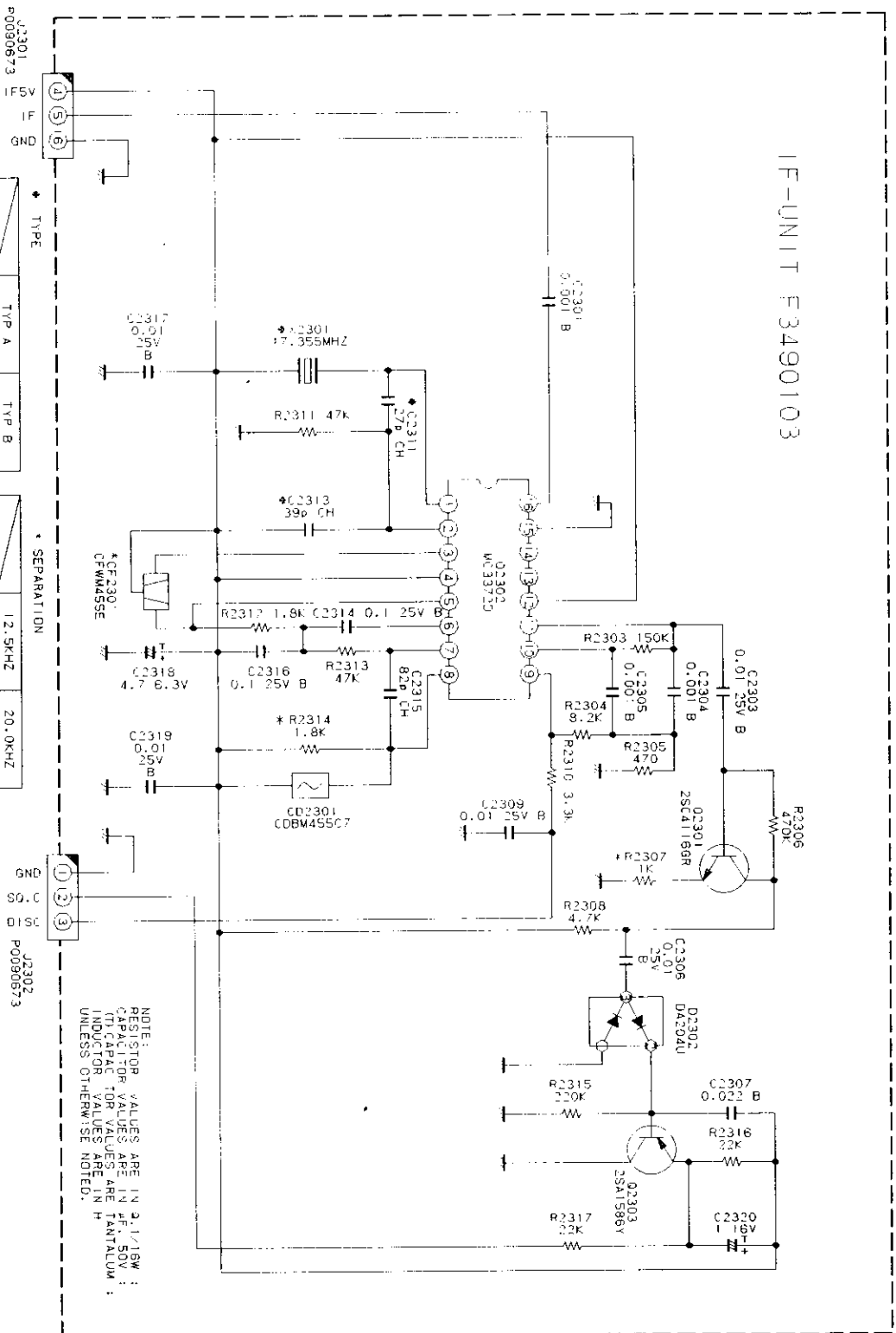
C2225	12.5GHz	20.01Hz
	88.15V	

J2201 P0090875
 GND (13)
 AF (12)
 SP (-) (11)
 SP (+) (10)
 +B (9)
 SP. CNTL. (8)

J2202 P0090875
 CONTSV (7)
 TX5V (6)
 SAVE5V (5)
 RX5V (4)
 TX (3)
 SAVE (2)
 GND (1)

CIRCUIT DIAGRAM	MODEL VX-510L
DES. B-A13260000/REG-UNIT	
REF. BP0033400	EDITION 064
DATE 09 SEP., 1991	UPDATE 17 FEB., 1998
YAESU MUSEN CO., LTD	

IF-UNIT F3490103



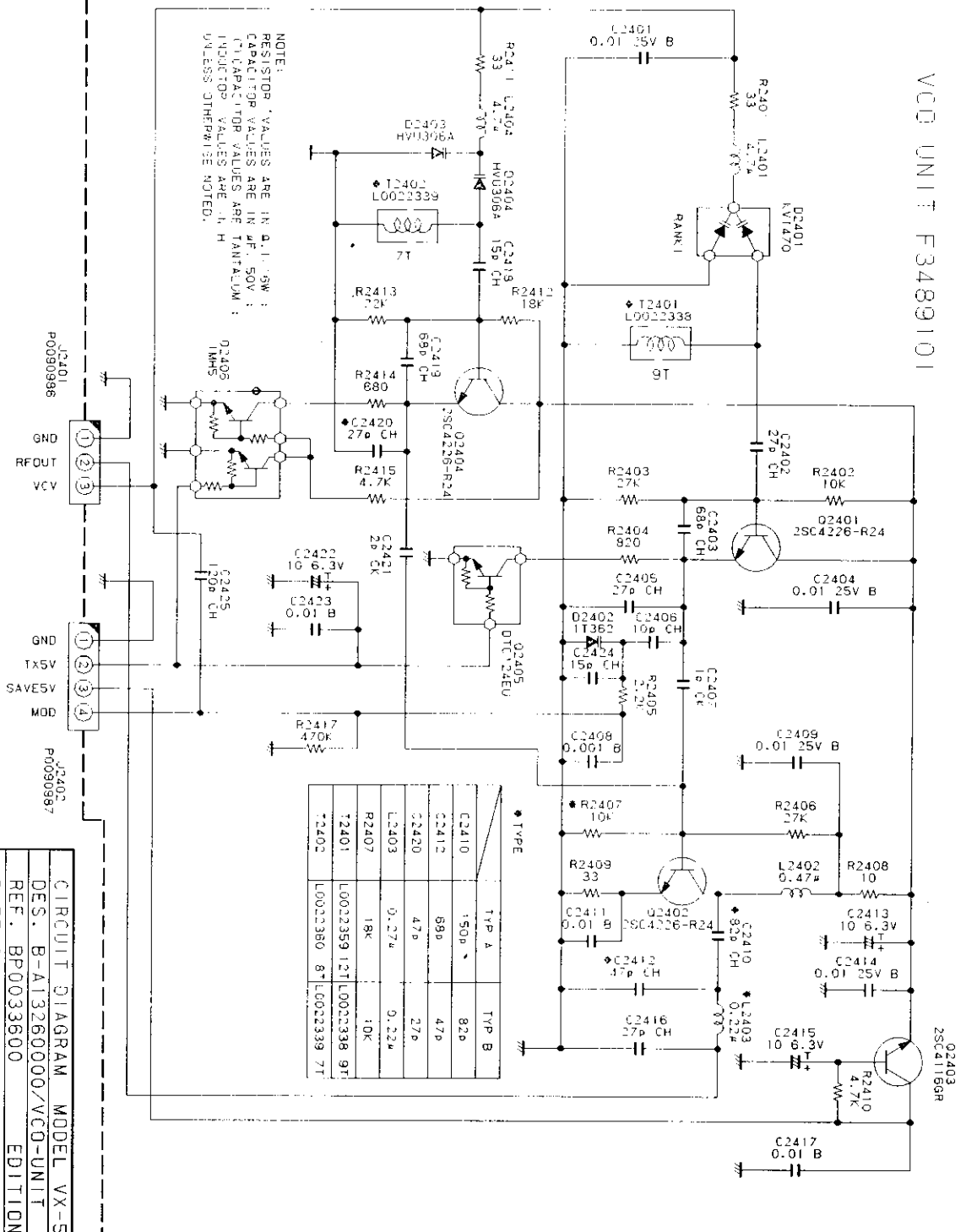
TYPE	TYP A	TYP B
C2311	56p	27p
C2313	1.20p	39p
X2301	22.055MHZ	17.355MHZ

SEPARATION	12.5KHZ	470	20.0KHZ
R2307	470		1K
R2314	3.3K		1.8K
CF2301	CFW455G		CFW455E

NOTE: 1. FOR VALUES ARE IN 2. 1/15W ;
 CAPACITOR VALUES ARE IN pF. 50V ;
 (T) CAPACITOR VALUES ARE TANTALUM ;
 INDUCTOR VALUES ARE IN H
 UNLESS OTHERWISE NOTED.

CIRCUIT DIAGRAM MODEL VX-510L
 DES. B-A13260000/IF-UNIT
 REF. BP0033500 EDITION 064
 DATE 09 SEP., 1991 UPDATE 17 FEB., 1998
 YAESU MUSEN CO., LTD

VCO UNIT F3489101



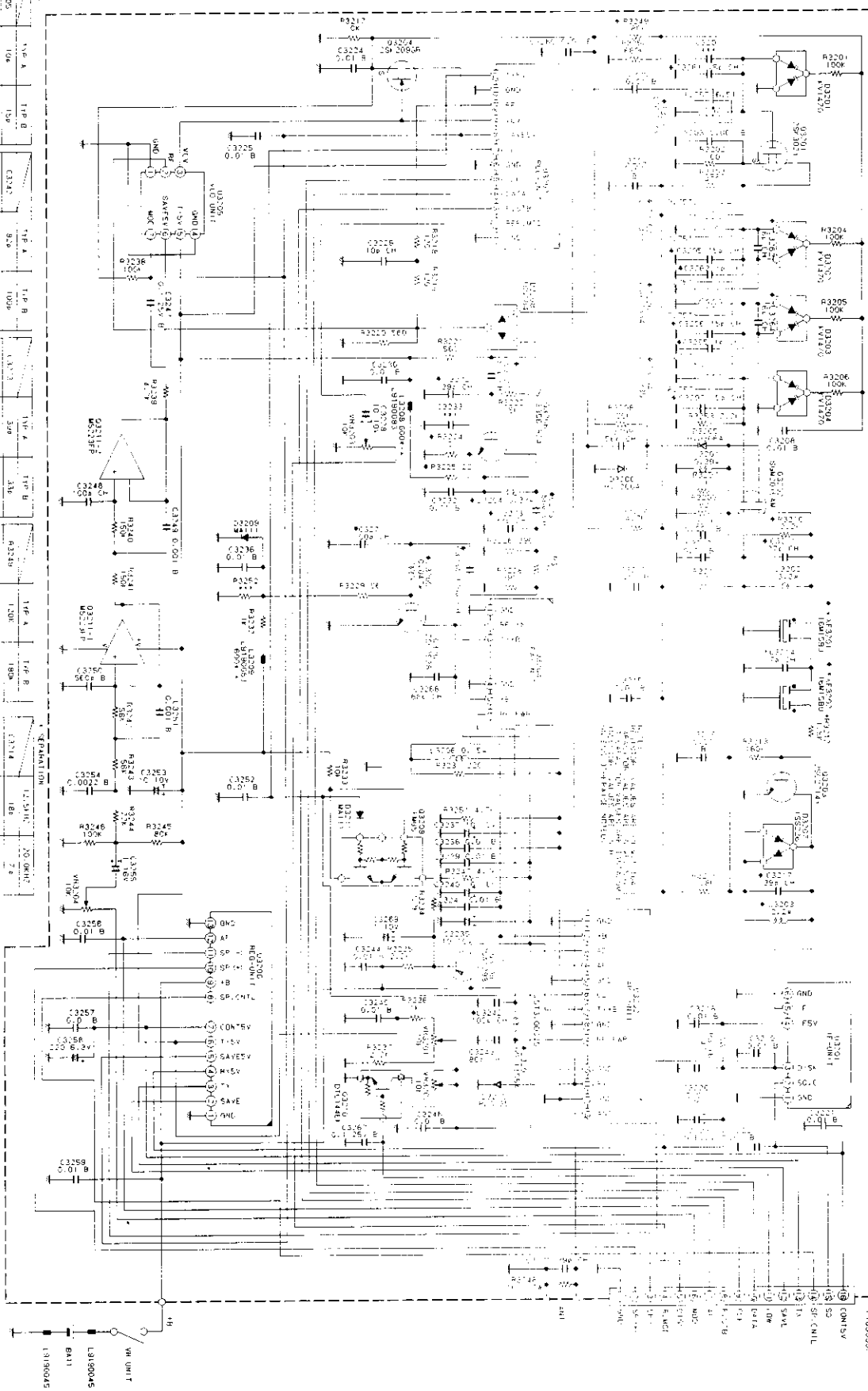
NOTE:
 RESISTOR VALUES ARE IN Ω, 1K, 10K, 100K, 1MΩ;
 CAPACITOR VALUES ARE IN pF, nF, μF, 50V;
 INDUCTOR VALUES ARE IN μH, mH;
 CAPACITOR VALUES ARE IN μF, 50V;
 INDUCTOR VALUES ARE IN μH, mH
 UNLESS OTHERWISE NOTED.

*TYPE		
TYP A	TYP B	
C2410	150p	82p
C2412	59p	47p
C2420	47p	27p
L2403	0.27μ	0.22μ
R2401	18K	10K
R2407	L0022359 12T	L0022338 9T
R2402	L0022380 8T	L0022339 7T

J2401 P0090986
 GND
 FCOUT
 VCV
 GND
 TX5V
 SAVE5V
 MOD
 J2402 P0090987

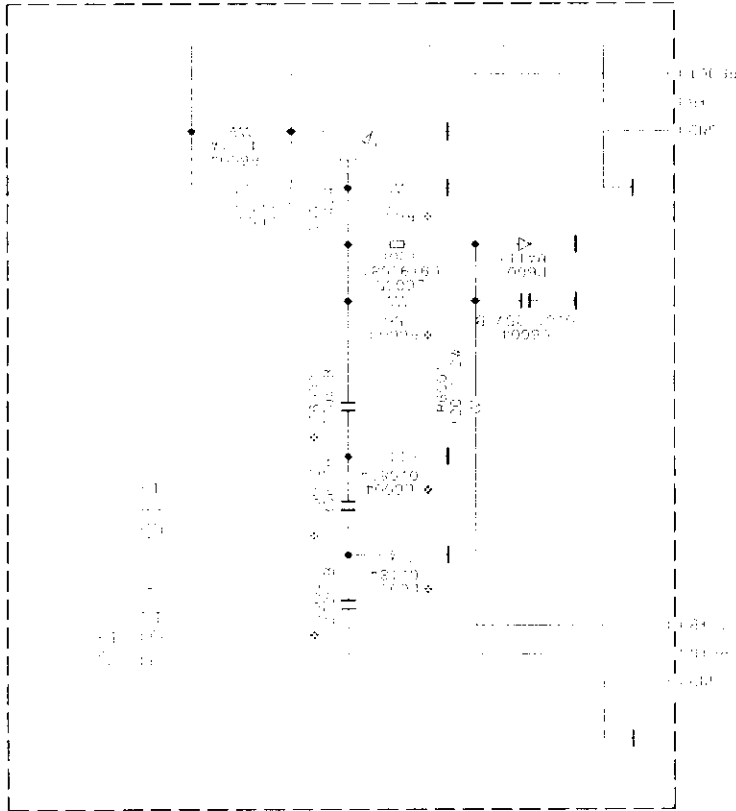
CIRCUIT DIAGRAM MODEL VX-S10L
 DES. B-A13260000/VCO-UNIT
 REF. BP0033600 EDITION 064
 DATE 07 OCT.. 1993 UPDATE 17 FEB.. 1998
 YAESU MUSEN CO., LTD

MAIN UNIT LOGIC



TYPE	TYPE A		TYPE B		TYPE A		TYPE B		TYPE A		TYPE B		TYPE A		TYPE B		TYPE A		TYPE B	
	RES	VAL	RES	VAL	RES	VAL	RES	VAL	RES	VAL	RES	VAL	RES	VAL	RES	VAL	RES	VAL	RES	VAL
C3200	10K	10K	C3201	10K	C3202	10K	C3203	10K	C3204	10K	C3205	10K	C3206	10K	C3207	10K	C3208	10K	C3209	10K
C3210	10K	10K	C3211	10K	C3212	10K	C3213	10K	C3214	10K	C3215	10K	C3216	10K	C3217	10K	C3218	10K	C3219	10K
C3220	10K	10K	C3221	10K	C3222	10K	C3223	10K	C3224	10K	C3225	10K	C3226	10K	C3227	10K	C3228	10K	C3229	10K
C3230	10K	10K	C3231	10K	C3232	10K	C3233	10K	C3234	10K	C3235	10K	C3236	10K	C3237	10K	C3238	10K	C3239	10K
C3240	10K	10K	C3241	10K	C3242	10K	C3243	10K	C3244	10K	C3245	10K	C3246	10K	C3247	10K	C3248	10K	C3249	10K
C3250	10K	10K	C3251	10K	C3252	10K	C3253	10K	C3254	10K	C3255	10K	C3256	10K	C3257	10K	C3258	10K	C3259	10K
C3260	10K	10K	C3261	10K	C3262	10K	C3263	10K	C3264	10K	C3265	10K	C3266	10K	C3267	10K	C3268	10K	C3269	10K
C3270	10K	10K	C3271	10K	C3272	10K	C3273	10K	C3274	10K	C3275	10K	C3276	10K	C3277	10K	C3278	10K	C3279	10K
C3280	10K	10K	C3281	10K	C3282	10K	C3283	10K	C3284	10K	C3285	10K	C3286	10K	C3287	10K	C3288	10K	C3289	10K
C3290	10K	10K	C3291	10K	C3292	10K	C3293	10K	C3294	10K	C3295	10K	C3296	10K	C3297	10K	C3298	10K	C3299	10K

DATE: 11/15/68
 DRAWN: J. B. BELL
 CHECKED: J. B. BELL
 APPROVED: J. B. BELL
 PROJECT: MAIN UNIT LOGIC
 SHEET: 1 OF 1
 ASSEMBLY: MAIN UNIT LOGIC



NO.	VALUE	TOLERANCE	QTY	UNIT
1	455K	5%	1	RES
2	10K	5%	1	RES
3	0.01	5%	1	CAP
4	10K	5%	1	RES
5	0.01	5%	1	CAP
6	10K	5%	1	RES
7	0.01	5%	1	CAP

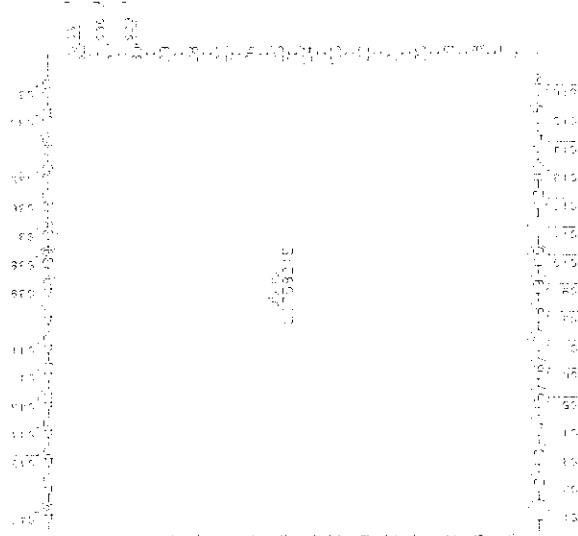
NOTE:
 1. RESISTOR A 455KΩ 5% 1/4W
 2. CAPACITOR A 0.01μF 5% 50V
 3. CAPACITOR A 0.01μF 5% 50V
 4. RESISTOR A 10KΩ 5% 1/4W
 5. CAPACITOR A 0.01μF 5% 50V
 6. RESISTOR A 10KΩ 5% 1/4W
 7. CAPACITOR A 0.01μF 5% 50V
 8. RESISTOR A 10KΩ 5% 1/4W
 9. CAPACITOR A 0.01μF 5% 50V

CIRCUIT DIAGRAM MODEL: 455-Osc
 DESIGNED BY: [REDACTED]
 REVIEWED BY: [REDACTED]
 DATE: 08.03.2003
 APPROVED BY: [REDACTED]
 DESIGNED BY: [REDACTED]

WATER TIGHT CONNECTION

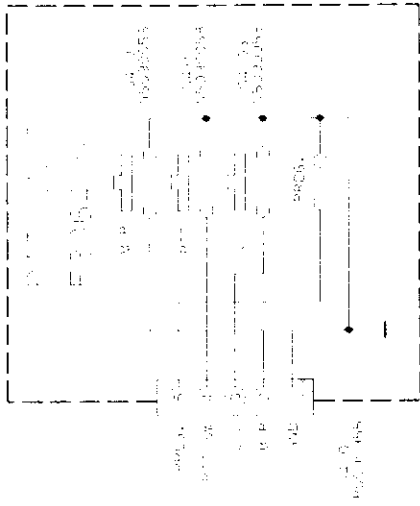
1/11/50

REVISIONS

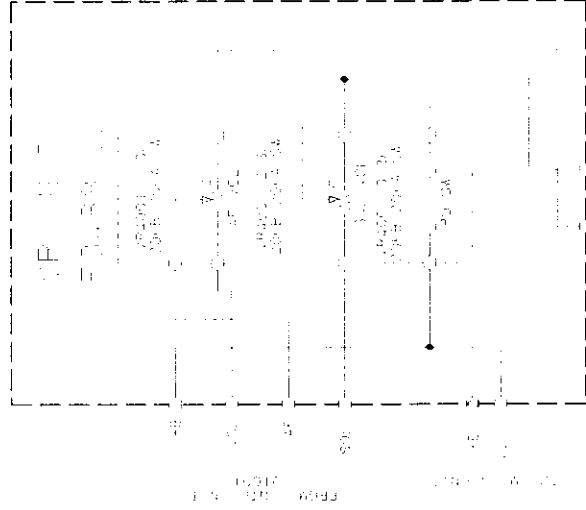


WATER TIGHT CONNECTION

DATE	1/11/50	BY	W. J. MOUSER, JR.
REV.	1	BY	W. J. MOUSER, JR.
DATE	1/11/50	BY	W. J. MOUSER, JR.
REV.	1	BY	W. J. MOUSER, JR.



CIRCUIT BOARD MODEL V-510E
 DES. BY: 3/15/80 G. B. L. W.
 REF. BEC 33300
 DATE: 3/15/80
 MUSEN CO., LTD.



REF: B-41260500 MODEL: 77-519L
 DES: B-41260500 VR: JAIT
 REF: B-41260500 EDIT: CN 084
 DATE: 28 FEB 1999 UPDATE: 17 FEB 1998
 TAFSL MUSEN CO., LTD