VOLTAGE CHART

	D.C. VOLTAGE													
MJ / PIN	1		2		3		4		5		6		7	
	R	T	R	T	R	T	R	T	R	T	R	T	R	T
1	E	E	E	E	E	E	E	E	E	E	E	E	0	0
2	E	E	E	E	0	0	0	0	0	0	-70	-55	E	E
3	6.0	6.0	0	0	13.0	12.5	0	0	0.7	0.7	-18	0	E	E
4	0.5	0.5	E	E	0	0	0	0	8.5	8.5	-20	-3.5	0	0
5	5.5	5.5	0	0	0	0	0	0	6.0	6.0	-150	-140	0	13.0
6	6.0	6.0	E	E	0	0	E	E	0	0	170	170	0	0
7	E	E	13.0	12.5	E	E	0	0	E	E	2.7	2.7	13.5	13.5
8	0	0	E	E	0	11.5	0	0	0	0	0.6	2.7	1.0	1.0
9	8.0	13.0	12.0	0	9.0	9.0	9.0	9.0	0	0	12.5	0	E	E
10	0	11.5	E	E	6.5	0.35	1.5	1.5	13.0	12.5	0	11.5	E	E
11	13.0	12.5	0	0	13.0	12.5	E	E	0	0	2.5	2.5	—	—
12	12.5	0	E	E	0.7	0.7	9.0	9.0	6.6	0.3	13.5	13.0	—	—
13	12.0	0	0	11.5	8.0	13.0	0	0	12.5	0	6.0	6.0	—	—
14	13.0	12.5		E	E	E	6.0	6.0	12.5	0.3	13.0	12.5	—	—
15	0	0	13.0	12.5	0	0	13.0	12.5	—	—	0	0	—	—
16	0	11.5	13.0	12.5	0	0	13.0	12.5	—	—	0	0	—	—
17	13.0	12.5	E	E	0	0	0	0	—	—	0	0	—	—
18	E	E	E	E	0	0	E	E	—	—	E	E	—	—
19	—	—	—	—	13.0	12.5	E	E	—	—	—	—	—	—
20	—	—	—	—	12.5	0	E	E	—	—	—	—	—	—
21	—	—	—	—	6.0	6.0	E	E	—	—	—	—	—	—
22	—	—	—	—	E	E	0	0	—	—	—	—	—	—

VALUES ARE IN VOLTS D.C.
R: RECEIVE, T: TRANSMIT

	R.F. VOLTAGE													
MJ / PIN	1		2		3		4		5		6		7	
	R	T	R	T	R	T	R	T	R	T	R	T	R	T
1	E	E	E	E	E	E	E	E	E	E	E	E	3180KHz 85dB	—
2	E	E	E	E	—	—	—	—	—	—	—	—	E	E
3	3	3	3180KHz 95dB	—	—	—	—	—	—	—	—	—	E	E
4	2	2	E	E	—	—	—	—	—	—	—	—	3180KHz 85dB	—
5	—	—	0	0	0.6	0	—	—	—	—	—	—	—	—
6	—	—	E	E	—	—	E	E	1	1	—	—	—	—
7	E	E	—	—	E	E	—	—	E	E	—	—	—	—
8	14MHz 48dB	—	E	E	—	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	E	E
10	—	—	E	E	3180KHz 70dB	—	—	—	—	—	—	—	E	E
11	14250 46dB	1	0.08	0.06	—	—	E	E	—	—	—	—	—	—
12	—	—	E	E	—	—	—	—	—	0.1	—	—	—	—
13	—	0.06	—	—	—	—	—	—	—	—	—	—	—	—
14	—	—	—	E	E	E	—	—	—	—	—	—	—	—
15	0.3	0.8	5720KHz 66dB	0.3	3180KHz 83dB	0.06	—	—	—	—	—	—	—	—
16	—	—	5720KHz 56dB	0.1	—	—	—	—	—	—	—	—	—	—
17	5720KHz 70dB	0.3	E	E	3180KHz 78dB	0.03	—	—	—	—	—	—	—	—
18	E	E	E	E	—	—	E	E	—	—	E	E	—	—
19	—	—	—	—	—	—	E	E	—	—	—	—	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	E	E	—	—	—	—	—	—	—	—

MODE: USB, BAND: 20M, R: RECEIVE, T: TRANSMIT
VALUES WITHOUT ANY UNIT ARE IN VOLTS R.M.S.
VALUES WITH DB ARE SIGNAL GENERATOR OUTPUT LEVELS TO PRODUCE S-9.
VALUES GIVEN UNDER THE COLUMN T ARE SIGNAL LEVELS TO PRODUCE 100W OUTPUT POWER MODULATED BY 1KHz MIC INPUT.

RESISTANCE CHART

MJ NO. / PIN NO.	1	2	3	4	5	6	7
1	E	E	E	E	E	E	∞
2	E	E	15 0	30K	0	10K	E
3	300	0	10	0	∞	4K	E
4	3K	E	∞	※	10 K	10K	0
5	300	∞	0	∞	200	30K	0
6	200	E	1K	E	5	50K	0
7	E	10	E	0	E	3K	10
8	0	E	0	1K	5K	6K	100K
9	2.5K	12 0	10K	10 K	1K	120	E
10	※	E	3K	50K	10	0	E
11	100	∞	10	E	1M	3K	—
12	120	E	1K	50K	3K	10	—
13	120	0	3K	∞	1.2K	200	—
14	10	※	E	200	700	10	—
15	0	10 0	∞	10	—	50K	—
16	0	10 0	∞	10	—	0	—
17	100	E	∞	※	—	∞	—
18	E	E	∞	∞	—	E	—
19	—	—	10	※	—	—	—
20	—	—	120	E	—	—	—
21	—	—	200	E	—	—	—
22	—	—	E	※	—	—	—

VALUES ARE IN OHMS.

Order Instruction:
Parts number is independent for each unit, except T-transformers and T-inductors, therefore it is requested to specify parts number together with unit classification as following example.

No. 1 RF Unit R1 100K ohm ¼w ※ VALUE IS NOMINAL

RF UNIT

PRINTED CIRCUIT BOARD PB-1181(A~Z)

Q-FET & TRANSISTOR

4	TR.	2SC372Y
5	TR.	2SC373
3	TR.	2SC784R
2	FET	2SK19GR
1	FET	3SK40M

D-DIODE

1, 2	Si	1S1555

R-RESISTOR

CARBON FILM

22	¼W	56 Ω ±10%
23	¼W	100 Ω ±10%
16, 24	¼W	220 Ω ±10%
6	¼W	330 Ω ±10%
10, 19	¼W	470 Ω ±10%
11	¼W	560 Ω ±10%
9, 13	¼W	1 KΩ ±10%
7	¼W	1.8KΩ ±10%
8	¼W	2.2KΩ ±10%
17, 20	¼W	3.3KΩ ±10%
21	¼W	8.2KΩ ±10%
14, 18	¼W	15 KΩ ±10%
2	¼W	22 KΩ ±10%
4	¼W	82 KΩ ±10%
1, 3, 5, 12	¼W	100 KΩ ±10%

VR-VARIABLE RESISTOR

1	TR-11R	5KΩB

C-CAPACITOR

DIPPED MICA

17	50WV	6PF ±0.5PF
5	50WV	50PF ±10%
1, 11	50WV	100PF ±10%

CERAMIC DISC

3	50WV	0.001μF +80% −20%
2, 4, 7~10, 12~16,	50WV	0.01 μF +80% −20%
6, 18	50WV	0.047μF +80% −20%

ELECTROLYTIC

19	16WV	47μF

L-INDUCTOR

1, 2	RF CHOKE	1mH

MIXER UNIT

PRINTED CIRCUIT BOARD PB-1082(A~Z)
PB-1180(A~Z)

Q-FET & TRANSISTOR

1	TR.	2SC372Y
2	FET	3SK40M

D-DIODE

1	Si.	1S1555

R-RESISTOR

CARBON FILM

12	¼W	10 Ω ±10%
5, 7	¼W	100 Ω ±10%
13	¼W	470 Ω ±10%
3, 16, 17	¼W	1 KΩ ±10%
2	¼W	4.7 KΩ ±10%
14, 15	¼W	5.6 KΩ ±10%
10	¼W	10 KΩ ±10%
4, 6	¼W	15 KΩ ±10%
11	¼W	22 KΩ ±10%
1	¼W	27 KΩ ±10%
8	¼W	100 KΩ ±10%
9	¼W	220 KΩ ±10%

C-CAPACITOR

DIPPED MICA

6, 19	50WV	20PF ±10%
1, 8	50WV	40PF ±10%
8	50WV	100PF ±10%
2	50WV	470PF ±10%

CERAMIC DISC

7	50WV	0.001μF +80% −20%
3~5, 9, 11, 13	50WV	0.01 μF +80% −20%
17	50WV	0.047μF +80% −20%

CERAMIC FEED THRU

14~16	500WV	0.001μF +100% 0%

ELECTROLYTIC

18	16WV	1μF

TC-TRIMMER CAPACITOR

CERAMIC

1~3	ECV1ZW50P32	50PF

L-INDUCTOR

1	BPF-A	
2	BPF-B	
3	BPF-C	
34	RF CHOKE	1.95μH
4, 8	RF CHOKE	250μH

T-TRANSFORMER & INDUCTOR

112A	IF TRASFORMER	
113	TRAP COIL	

X-CRYSTAL

1	HC-18/U	6360KHz

IF UNIT

PRINTED CIRCUIT BOARD PB-1183(A~Z)

Q-FET, IC & TRANSISTOR

2	TR.	2SC784R
4, 5	TR.	2SC828Q
3	IC	CA3053
1	FET	2SK19GR

D-DIODE

1~5, 7~11	Ge.	1S1007
6	Si.	1S1555
12	Zener	WZ-110

R-RESISTOR

CARBON FILM

2, 13, 16	¼W	100 Ω ±10%
23	¼W	220 Ω ±10%
20	¼W	470 Ω ±10%
12, 15, 19	¼W	1 KΩ ±10%
3, 14	¼W	2.2KΩ ±10%
8, 9, 22	¼W	3.3KΩ ±10%
11	¼W	3.9KΩ ±10%
4, 5	¼W	5.6KΩ ±10%
17, 24, 25, 27	¼W	10 KΩ ±10%
10	¼W	27 KΩ ±10%
1, 18, 21	¼W	100 KΩ ±10%

CARBON COMPOSITION

26	¼W	1 MΩ ±10%
6, 7	½W	100 Ω ±10%

VR-VARIABLE RESISTOR

1	TR12R	500ΩB
2	TR11R	500ΩB

C-CAPACITOR

DIPPED MICA

1, 24, 25	50WV	100PF ±10%

15, 22	50WV	150PF ±10%	
11, 17	50WV	470PF ±10%	
	CERAMIC DISC		
26~28	50WV	0.001μF	+80% −20%
2~6, 9, 10, 12, 13, 18, 20, 21, 23, 31~34	50WV	0.01 μF	+80% −20%
7, 8, 14, 16, 19, 35	50WV	0.047μF	+80% −20%
	PLASTIC FILM		
29	50WV	0.47 μF ±20%	
	ELECTROLYTIC		
30	16WV	10μF	
L-INDUCTOR			
1~4	RF CHOKE	250μH	
T-TRANSFORMER & INDUCTOR			
108	IF TRANSFORMER		
109	IF TRANSFORMER(DETECTOR)		
XF-CRYSTAL FILTER			
1	XF-32A SSB		
2	XF-30C CW(OPTION)		

AF UNIT

PRINTED CIRCUIT BOARD PB-1315(A~Z)

Q-FET, IC & TRANSISTOR		
2, 3	TR.	2SC372Y
6, 7	TR.	2SC373
5	FET	MK-10D
1	FET	2SK19GR
8	IC	STK401
4	IC	TA7042M
D-DIODE		
1~4	Si.	1S1555
5	Zener	WZ-090

R-RESISTOR		
CARBON FILM		
42	¼W	4.7Ω ±10%
40	¼W	82 Ω ±10%
13, 44, 45	¼W	100 Ω ±10%
41	¼W	220 Ω ±10%
12	¼W	330 Ω ±10%
16, 17, 33, 38, 39	¼W	470 Ω ±10%
27	¼W	680 Ω ±10%
5, 8, 15	¼W	1 KΩ ±10%
21	¼W	1.5KΩ ±10%
20, 28, 34	¼W	2.2KΩ ±10%
6	¼W	3.3KΩ ±10%
1, 3, 14, 19, 29~31	¼W	4.7KΩ ±10%
4	¼W	5.6KΩ ±10%
9, 10, 35	¼W	10 KΩ ±10%
11, 18	¼W	15 KΩ ±10%
7	¼W	22 KΩ ±10%
43, 47	¼W	27 KΩ ±10%
32	¼W	33 KΩ ±10%
2, 36, 37, 46	¼W	47 KΩ ±10%
22	¼W	470 KΩ ±10%
CARBON COMPOSITION		
23, 24	¼W	3.3MΩ ±10%
25	¼W	5.6MΩ ±10%
26	THERMISTOR	SDT-250
VR-VARIABLE RESISTOR		
3, 4	TR11R	10KΩB
1, 5	V160KRZ-1	10KΩB
2	V160KRZ-1	2MΩB
C-CAPACITOR		
DIPPED MICA		
46	50WV	100PF ±10%
PLASTIC FILM		
47	50WV	0.0047μF ±20%
15, 27, 39	50WV	0.001μF ±20%
1, 9, 12, 17, 22, 33, 34	50WV	0.01 μF ±20%
24, 28~30	50WV	0.022μF ±20%
3, 25, 26, 45, 48, 50	50WV	0.047μF ±20%
23, 32	50WV	0.1 μF ±20%
11	50WV	2.2 μF ±20%
ELECTROLYTIC		
5~7, 10, 14, 21, 36	16WV	1μF
2, 16, 19, 20, 31	16WV	10μF
8, 35, 40, 43	16WV	22μF
38	16WV	47μF
4, 18, 41, 42, 49	16WV	100μF
13, 44	16WV	220μF

MOD. & OSC UNIT

PRINTED CIRCUIT BOARD PB-1184(A~Z)

Q-FET & TRANSISTOR		
2, 3, 5, 6	TR.	2SC372Y
4	TR.	2SC828P
1	FET.	MK-10D
D-DIODE		
1~4	Ge.	1S1007

R-RESISTOR		
CABON FILM		
18	¼W	100 Ω ±10%
1, 3	¼W	150 Ω ±10%
19	¼W	180 Ω ±10%
2, 21, 30	¼W	470 Ω ±10%
9~11, 14, 24, 28	¼W	1 KΩ ±10%
20	¼W	1.5KΩ ±10%
6, 8	¼W	2.2KΩ ±10%
12, 15, 16, 22, 25, 26, 29	¼W	4.7KΩ ±10%
32	¼W	10 KΩ ±10%
33	¼W	15 KΩ ±10%
13, 17, 23, 27	¼W	22 KΩ ±10%
7	¼W	33 KΩ ±10%
4	¼W	100 KΩ ±10%
VR-VARIABLE RESISTOR		
1	TR11R	500ΩB
2	TR11R	5KΩB

C-CAPACITOR		
DIPPED MICA		
20, 28, 30	50WV	30PF ±10%
19, 27, 32	50WV	40PF ±10%
38	50WV	50PF ±10%
5, 10, 37	50WV	100PF ±10%
4	50WV	150PF ±10%
21	50WV	300PF ±10%
23, 36	50WV	1000PF ±10%
CERAMIC DISC		
31	50WV	0.001μF +80% −20%
2, 8, 9, 13, 17, 18, 24, 26, 29, 33	50WV	0.01 μF +80% −20%
6, 11, 22, 25, 34	50WV	0.047μF +80% −20%
PLASTIC FILM		
12	50WV	0.22 μF ±20%
ELECTROLYTIC		
15	16WV	100μF

TC-TRIMMER CAPACITOR		
CERAMIC		
2~4	ECV1ZW20P40	20PF
1, 5, 6	ECV1ZW50P40	50PF
L-INDUCTOR		
5	RF CHOKE	10μH
2~4, 6, 7	RF CHOKE	22μH
8, 9	RF CHOKE	250μH

T-TRANFORMER		
110	IF TRANSFORMER	
X-CRYSTAL		
1	HC-6/U 3178.5KHz(USB)	
2	HC-6/U 3181.5KHz(LSB)	
3	HC-6/U 3179.3KHz(CW/AM)	

REG. & CALIB. UNIT

PRINTED CIRCUIT BOARD PB-1314(A~Z)

Q-TRANSISTOR		
6	TR. 2SC372Y	
1~4	TR. 2SC735Y	
5	TR. 2SD313	
D-DIODE		
2	Zener 1S993	
1, 5, 6	Si 1S1555	
3	Zener WZ-090	
R-RESISTOR		
	CARBON FILM	
3, 10	1/4W	100 Ω ±10%
22	1/4W	220 Ω ±10%
17, 19,	1/4W	330 Ω ±10%
26	1/4W	470 Ω ±10%
18	1/4W	1 KΩ ±10%
12	1/4W	1.5KΩ ±10%
20	1/4W	2.2KΩ ±10%
4, 7, 11	1/4W	4.7KΩ ±10%
1, 8, 13, 15, 24	1/4W	10 KΩ ±10%
25	1/4W	15 KΩ ±10%
5	1/4W	27 KΩ ±10%
6	1/4W	33 KΩ ±10%
14	1/4W	47 KΩ ±10%
2, 9	1/4W	100 KΩ ±10%
	CARBON COMPOSITION	
16	2W	6.8KΩ ±10%
VR-VARIABLE RESISTOR		
4	TR11R	500ΩB
3	TR11R	1KΩB
1	TR11R	10KΩB
2	V160KRZ-1	10KΩB
C-CAPACITOR		
	DIPPED MICA	
5, 6, 21	50WV	30PF ±10%
9	50WV	40PF ±10%
20	50WV	50PF ±10%
2	50WV	100PF ±10%
1	50WV	250PF ±10%
7, 8	50WV	1000PF ±10%
3	50WV	2000PF ±10%
	CERAMIC DISC	
4, 19	50WV	0.01μF +80% −20%
	PLASTIC FILM	
24	250WV	0.047μF ±20%
	ELECTROLYTIC	
14~16	16WV	1000μF
17, 18	25WV	1000μF
13	160WV	22μF
10~12	250WV	22μF
TC-TRIMMER CAPACITOR		
	CERAMIC	
1	ECV1ZW50P32	50PF
L-INDUCTOR		
1, 2	RF CHOKE	4mH
X-CRYSTAL		
1	HC-13/U 100KHz	

NB UNIT

PRINTED CIRCUIT BOARD PB-1292(A~Z)

Q-FET & TRANSISTOR		
1, 6	TR. 2SC372Y	
4	TR. 2SC784R	
2, 3	FET 2SK19GR	
5	FET 2SK34E	
D-DIODE		
1~3	Si 1S1555	
4	Zener WZ090	
R-RESISTOR		
	CARBON FILM	
4, 13	1/4W	100 Ω ±10%
16	1/4W	330 Ω ±10%
3	1/4W	560 Ω ±10%
6, 8, 12, 19	1/4W	1 KΩ ±10%
18	1/4W	1.5KΩ ±10%
15	1/4W	2.2KΩ ±10%
9, 11, 21, 22	1/4W	3.3KΩ ±10%
1	1/4W	4.7KΩ ±10%
2, 10	1/4W	22 KΩ ±10%
5, 7, 14, 17, 20	1/4W	100 KΩ ±10%
VR-VARIABLE RESISTOR		
1	TR11R	10KΩB
C-CAPACITOR		
	DIPPED MICA	
1	50WV	3PF ±0.5PF
13	50WV	6PF ±1PF
3, 9, 16, 18	50WV	30PF ±10%
12	50WV	50PF ±10%
11, 21, 22	50WV	100PF ±10%
2, 4, 8, 15	50WV	130PF ±10%
	CERAMIC DISC	
5, 10, 14, 17, 19, 20, 24, 25, 28. 29	50WV	0.01μF +80% −20%
6, 26, 27	50WV	0.047μF +80% −20%
	ELECTROLYTIC	
7, 23	16WV	1μF
TC-TRIMMER CAPACITOR		
	CERAMIC	
1~4	ECV1ZW50P40	50PF
L-INDUCTOR		
2	RF CHOKE	250μH
1, 3~5	RF CHOKE	1mH
T-TRANSFORMER		
116~119	IF TRANSFORMER	R124129

FIX UNIT

PRINTED CIRCUIT BOARD PB-1344(A~Z)

Q-FET		
1	FET MK10E	
D-DIODE		
1	Varactor 1S145	
R-RESISTOR		
	CARBON FILM	
2	1/4W	56 Ω ±10%
3	1/4W	100 Ω ±10%
1, 4	1/4W	100KΩ ±10%
C-CAPACITOR		
	DIPPED MICA	
5	50WV	20PF ±10%
3	50WV	50PF ±10%
	CERAMIC DISC	
1, 2, 4	50WV	0.01μF +80% −20%
L-INDUCTOR		
2	RF CHOKE	250μH
1	FIX OUTPUT COIL	

VFO UNIT

PRINTED CIRCUIT BOARD PB-1056(A~Z)

Q-FET & TRANSISTOR		
3	TR. 2SC372Y	
1, 2	FET 2SK19GR	
D-DIODE		
1	Varactor 1S145	
R-RESISTOR		
	CARBON FILM	
4, 7	1/4W	100 Ω ±10%
10	1/4W	270 Ω ±10%
3, 6	1/4W	330 Ω ±10%
8	1/4W	8.2KΩ ±10%

1	¼W	10	KΩ ±10%
9	¼W	22	KΩ ±10%
2, 5	¼W	100	KΩ ±10%
	CARBON COMPOSITION		
11(L5)	½W	1	KΩ ±10%

C-CAPACITOR

	DIPPED MICA		
16	50WV	20PF	±10%
8, 10	50WV	100PF	±10%
1, 2	50WV	650PF	±10%
11	50WV	1000PF	±10%
11	50WV	2000PF	±10%
	CERAMIC DISC		
6, 7, 9, 12, 15	50WV	0.01 μF	+80% −20%
3, 5, 13	500WV	0.01 μF	+100% −0%
	CERAMIC TC		
14	NP0	6PF	±0.5PF
4	NP0	10PF	±10%
19	NP0	82PF	±10%
20	N750	2PF	±0.5PF
18	N750	7PF	±0.5PF
17	N750	20PF	±10%

VC-VARIABLE CAPACITOR

1	AIR	B521A112

TC-TRIMMER CAPACITOR

1	AIR	TSN150C30PF
2	AIR	TSN170C10PF×2

L-INDUCTOR

1	OSCILLATOR COIL	
2～4, 6, 7	RF CHOKE	250μH
5(R11)	RF CHOKE	

RECTIFIER UNIT

PRINTED CIRCUIT BOARD PB-1076(A～Z)

D-DIODE

5, 6	Si.	1S1942
1～4, 9～12	Si.	10D10
7, 8	Si.	V06B

R-RESISTOR

	CARBON FILM		
6～13	¼W	470	KΩ ±10%
	CARBON COMPOSITION		
4, 5	1 W	3.3Ω	±10%
1	2 W	5.6Ω	±10%
	METALIC FILM		
3	5W	220	Ω ±10%

C-CAPACITOR

	CERAMIC DISC		
6	50WV	0.047μF	+80% −20%
4	500WV	0.01 μF	+100% −0%
1, 2, 5	1.4KV	0.0047μF	+100% −0%
	ELECTROLYTIC		
3	25WV	470μF	

MAIN CHASSIS

V-VACUUM TUBE

1	12BY7A
2, 3	6JS6C

Q-TRANSISTOR

1, 2	TR.	2SB206
3	TR.	2SC372Y

D-DIODE

4, 7	Ge.	1S1007
1～3, 8, 11	Si.	1S1555
14	Si.	1S1941
9	Zener	WZ-090

RESISTOR

	CARBON FILM		
48	¼W	220	Ω ±10%
22	¼W	330	Ω ±10%
18	¼W	470	Ω ±10%
26, 62	¼W	560	Ω ±10%
64, 65, 68	¼W	1K	Ω ±10%
50	¼W	1.5K	Ω ±10%
61, 63	¼W	4.7K	Ω ±10%
23, 24, 33, 34	¼W	5.6K	Ω ±10%
25, 59	¼W	10	KΩ ±10%
60	¼W	33K	Ω ±10%
	CARBON COMPOSITION		
54	½W	10	Ω ±10%
4, 9, 17, 39, 69	½W	56	Ω ±10%
14, 51, 53, 55	½W	100	Ω ±10%
16	½W	470	Ω ±10%
35	½W	680	Ω ±10%
7, 38, 66	½W	1	KΩ ±10%
6, 67	½W	2.2K	Ω ±10%
2	½W	3.3K	Ω ±10%
44	½W	4.7K	Ω ±10%
19, 20	½W	5.6K	Ω ±10%
8	½W	10	KΩ ±10%
36, 56	½W	33	KΩ ±10%
3	½W	47	KΩ ±10%
28, 29	½W	470	KΩ ±10%
13	½W	1	MΩ ±10%
10, 11	1 W	56	Ω ±10%
	METALIC FILM		
30	1 W	47	KΩ ±10%
5	3 W	5.1K	Ω ±10%
40	5 W	1.5K	Ω ±10%
37	5 W	18	KΩ ±10%
	WIRE WOUND		
12	METER SHUNT		

VR-VARIABLE RESISTOR

3	EVCBOQS20B13	1KΩB
6	EVHBOAS15B13	1KΩB
1	EVKA2AF02314	5KΩA/1KΩB
2	EVKA2AF01339	5KΩA/5KΩB
4	TR-11R	500ΩB

C-CAPACITOR

	DIPPED MICA		
123	500WV	2PF	±0.5PF
134	500WV	3PF	±0.5PF
28	500WV	5PF	±0.5PF
1, 16, 98, 107	500WV	10PF	±10%
44	500WV	20PF	±10%
97, 106, 122	500WV	30PF	±10%
5, 10, 42, 43, 47	500WV	50PF	±10%
135	500WV	60PF	±10%
48, 53, 55, 92, 99	500WV	100PF	±10%
46, 111	500WV	150PF	±10%
29	500WV	200PF	±10%
9, 127	500WV	250PF	±10%
4	500WV	270PF	±10%
41, 45	500WV	300PF	±10%
105, 108	500WV	400PF	±10%
2, 26, 136	500WV	470PF	±10%
7, 27, 120, 121 128～131	500WV	1000PF	±10%
17	500WV	2200PF	±10%
133	500WV	3000PF	±10%
	MOULDED MICA		
13, 104	1KWV	80PF	±10%
125	1KWV	100PF	±10%
11	1KWV	200PF	±10%
23	1.5KWV	1000PF	±10%
	CERAMIC DISC		

51, 62, 65, 81～83, 86, 87, 90, 118	50WV	0.01 μF	+80% −20%
33, 38, 50, 52, 59～61, 66, 69～73, 85, 89, 91, 94, 95, 100, 103	50WV	0.047μF	+80% −20%
8, 14, 15, 20, 22	500WV	0.0047μF	+100% −0%
3, 19, 21, 101, 102	500WV	0.01 μF	+100% −0%
74	1.4KV	0.001μF	+100% −0%
24	1.4KV	0.0047μF	+100% −0%
36, 75	1.4KV	0.01 μF	+100% −0%
25	(RDA30) 3KV	150PF ±10%	
132	3KV	600PF ±10%	
CERAMIC FEED THRU			
30～32, 34, 35, 37, 39, 40, 67, 68, 84, 110	500WV	0.001μF	+100% −0%
PLASTIC FILM			
140, 141	50WV	0.047μF ±20%	
18	50WV	0.22 μF ±20%	
49	50WV	0.47 μF ±20%	
METALIZED PAPER			
76	160WV	2.2 μF ±20%	
145	220VAC	1μF	
ELECTROLYTIC			
142	16WV	1μF	
54, 144	16WV	10μF	
143	16WV	100μF	
63	16WV	220μF	
109	450WV	2.2μF	
77, 78	500WV	100μF	

VC-VARIABLE CAPACITOR

1	(PLATE) AIR	RT18B300VC	300PF
2	(LOADING)AIR	C123A129	

TC-TRIMMER CAPACITOR

	CERAMIC		
5		ECV1ZW10P32	10PF
1～4, 11～25		ECV1ZW50P32	50PF
7, 8, 9	MICA	B-1PY	40PF
6, 31		B-2PY	100PF
10, 26, 28, 29		B-7P	420PF
27	AIR	TSN-150C	10PF
	PLASTIC FILM		
30		CTY12B	10PF

L-INDUCTOR

12, 13, 16～18, 20, 21, 26, 31, 35, 38	RF CHOKE	250μH
3, 11, 14, 15, 36	RF CHOKE(TV-245)	250μH
9	RF CHOKE	300μH
7	RF CHOKE(PLATE)	500μH
2	RF CHOKE	1mH
24	P.S. ½W56Ω0.3φ	10TS
1, 4, 37	P.S. ½W56Ω0.6φ	4TS
5, 6	P.S. 1 W56Ω1.0φ	4TS
8	TANK COIL	
22	TRAP COIL	
28	TRAP COIL	
29	TRAP COIL	
32	TRAP COIL	
33	TUNING COIL	
25	L.P.FILTER COIL	

T-TRANFORMER & INDUCTOR

101A	ANT COIL A
102	GRID COIL A
103	DRIVER COIL A
104	ANT COIL B
105	DRIVER COIL B
106	GRID COIL B
107	5MHz TRAP COIL
111	6.36MHz TRAP COIL
115	3.18MHz TRAP COIL
112A	BAND PASS NETWORK

T-TRANSFORMER & CHOKE COIL

11	POWER TRANSFORMER	
12	AF CHOKE	20mH 0.5A

F-FUSE

1	AC	5A(100～117V)3A(200～234V)
2	DC	20A

FH-FUSE HOLDER

1	AC	S-N1001
2	DC	S-N1102

RL-RELAY

1	AE3171-42
2	MX2P

S-SWITCH

1	ROTARY RS13-13-11(BAND)
2	ROTARY ESRE365R20Z(MODE)
4	ROTARY ESRE246R20Z(SELECT)
6	SEASAW WD3001 (POWER)
5	SEASAW WD3201 (HEATER)
3, 10	SLIDE SS-F22-08
7～9	SLIDE SS-H23-08

X-CRYSTAL

1	80M	HC-25/U	9.52MHz
2	40M	HC-25/U	13.02MHz
3	20M	HC-25/U	20.02MHz
4	15M	HC-25/U	27.02MHz
5	11M	HC-25/U	33.02MHz
6	10M-A	HC-25/U	34.02MHz
7	10M-B	HC-25/U	34.52MHz
8	10M-C	HC-25/U	35.02MHz
9	10M-D	HC-25/U	35.52MHz
10	JJY/WWV	HC-25/U	16.02MHz
11	160M	HC-25/U	7.52MHz

MJ-MULTI JACK

1, 2, 6	3305-018-011	18P
3, 4	3305-022-011	22P
5	3305-014-011	14P
7	3305-010-011	10P

PL-LAMP

1, 2, 4	15V 0.15A
3	14V 40mA
5, 6	TLR-104

PLH-LAMP HOLDER

1, 2	#001011
3	B-1

VS-TUBE SOCKET

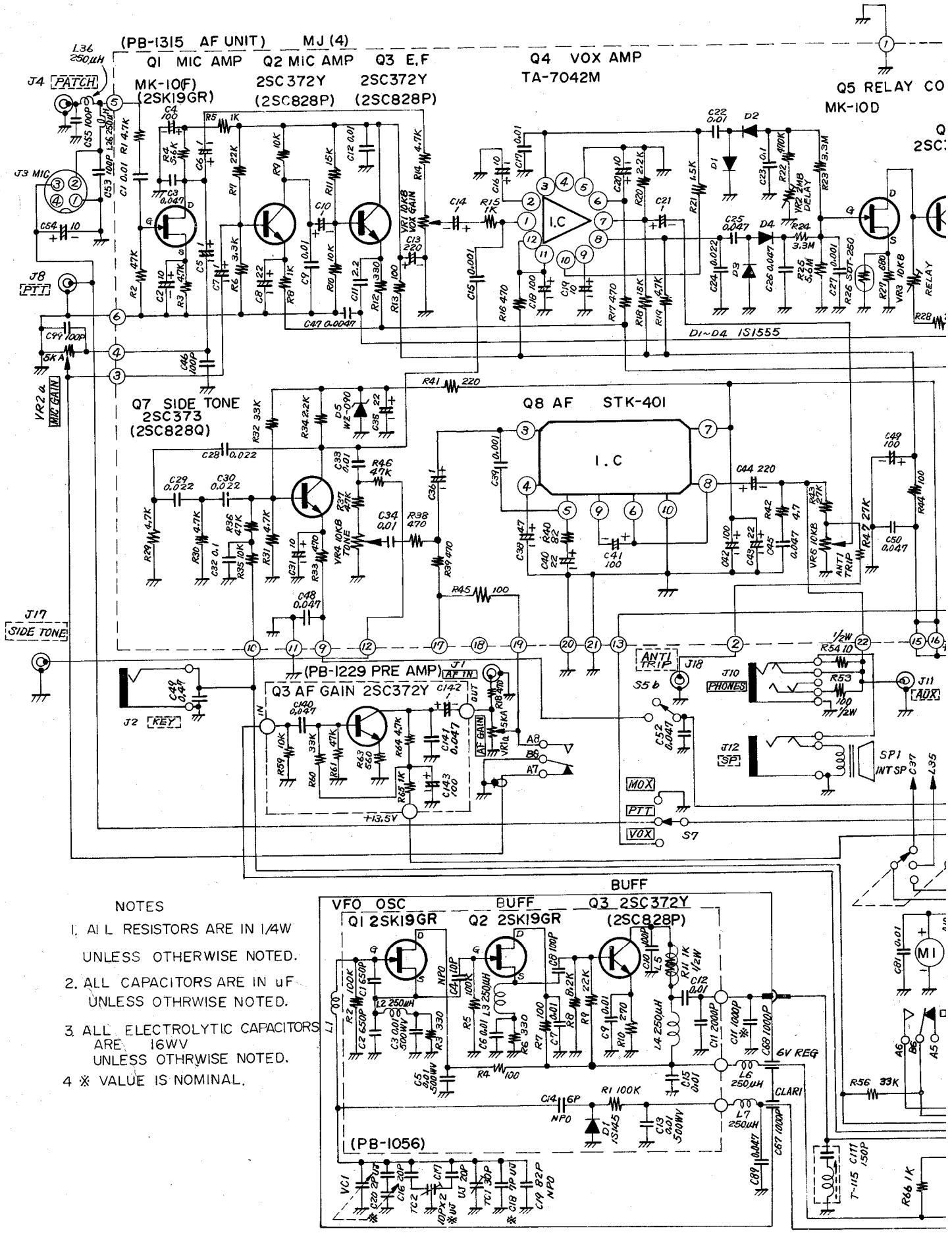
1	TS103C01
2, 3	S-B0703

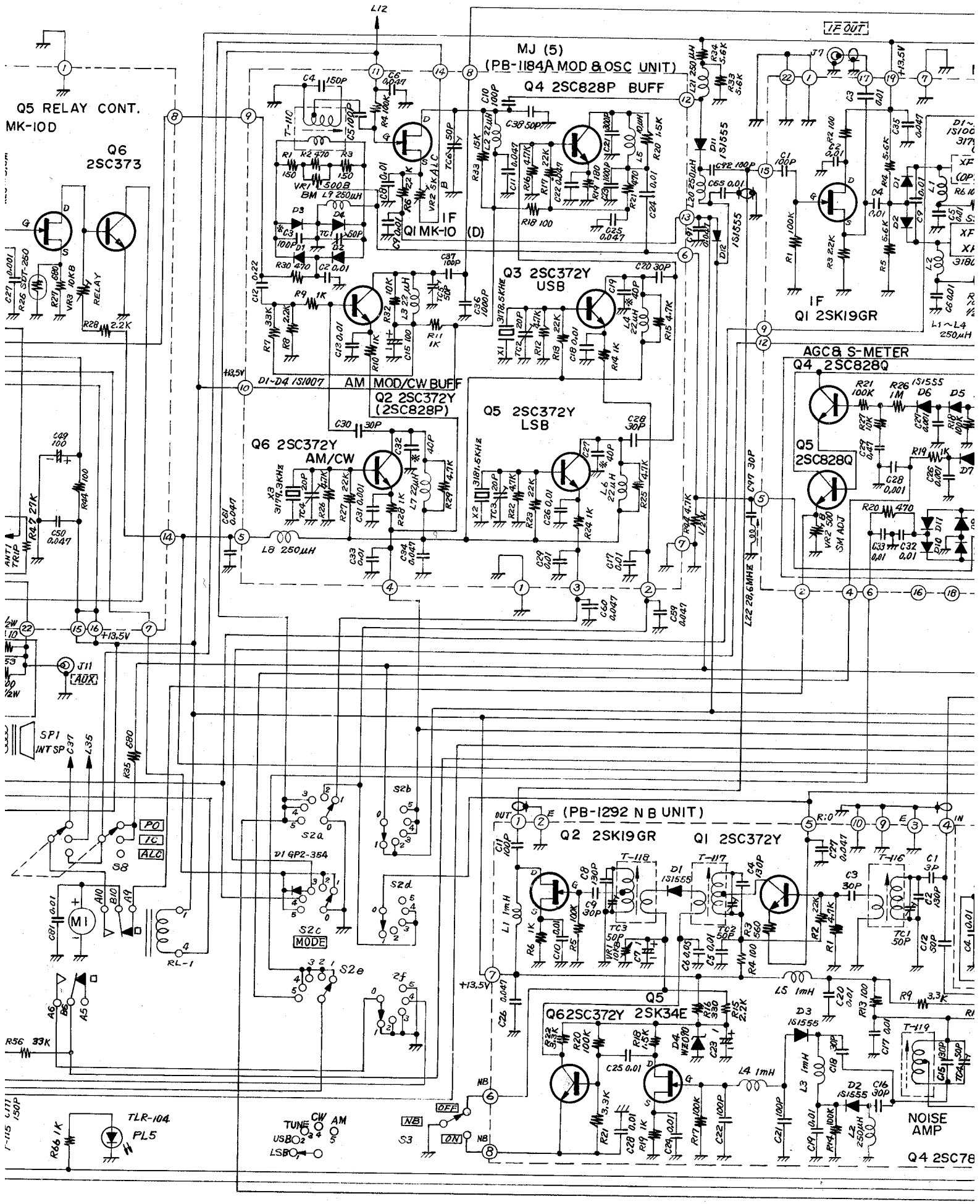
J-RECEPTACLE & JACK

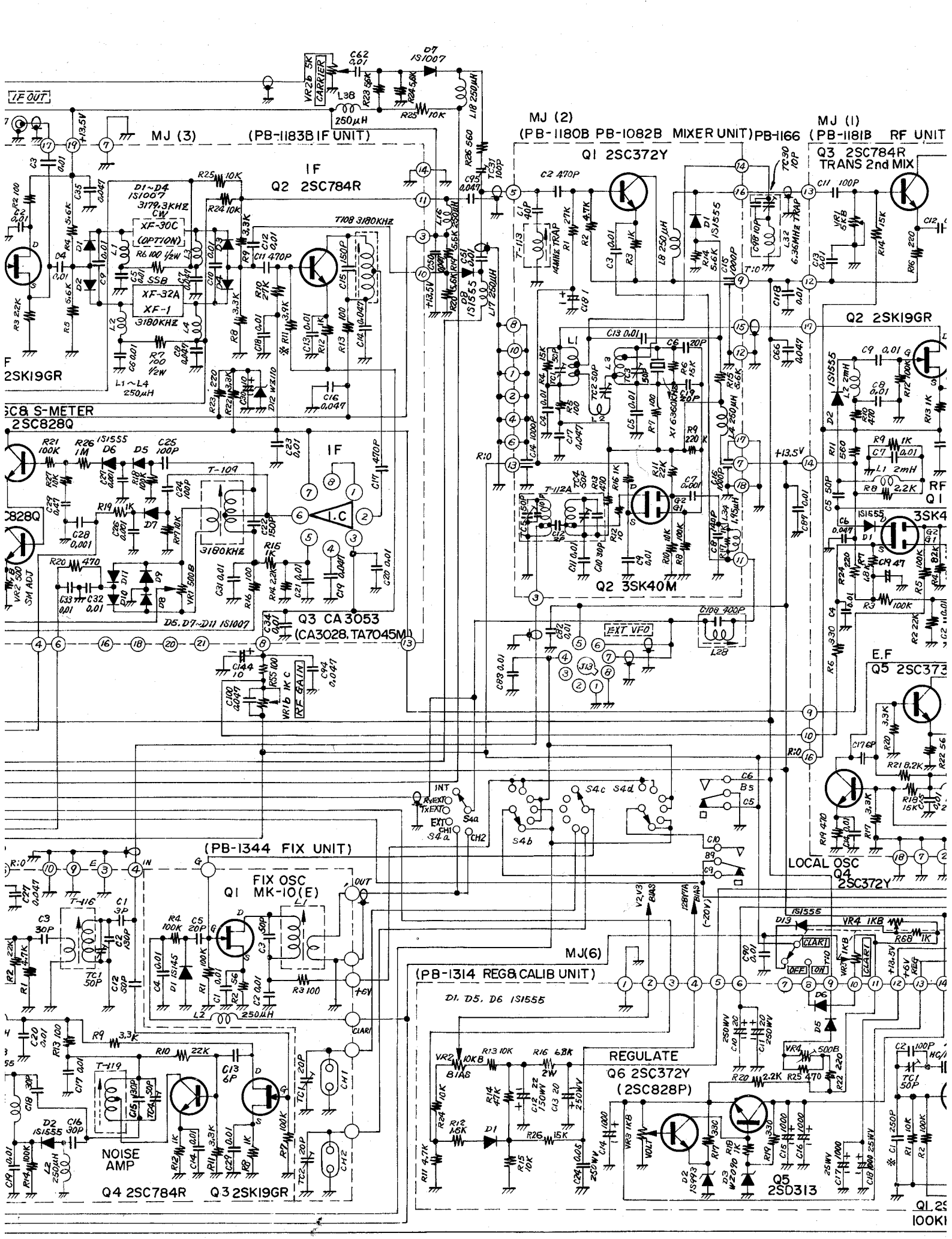
1, 4, 5, 7, 8, 11, 16～18	CN-7017
2	S-G7616 (KEY)
10	S-G7814 (PHONE)
3	FM-144 (MIC)
6	JSO-239 (ANT)
9	450AB12M(POWER)
12	P2240 (SP)
13	S-B0611 (EXT.VFO)
14	SA602B(ACC)
15	S-I6303 (FAN)

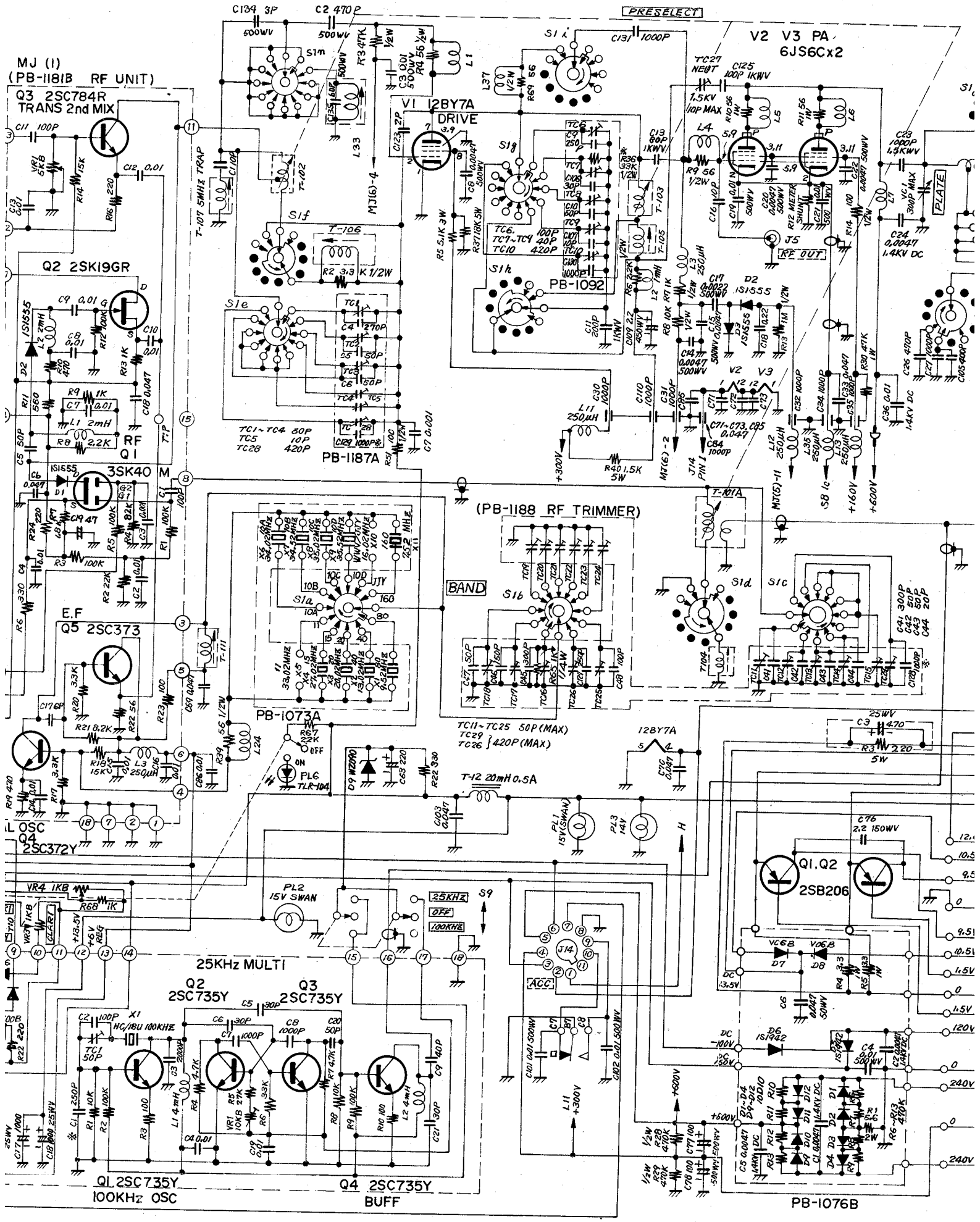
M-METER

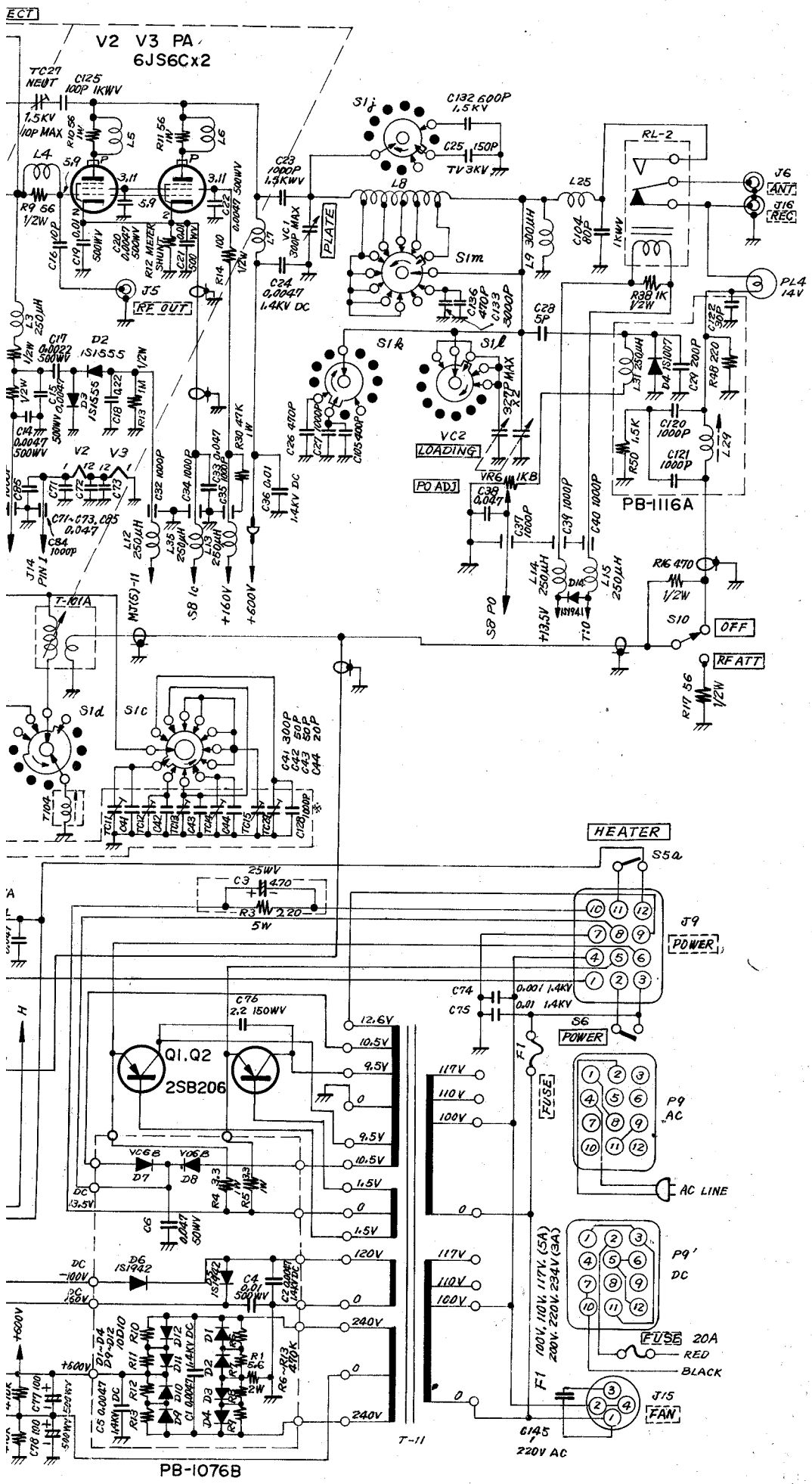
1	MK-45


(PB-1315 AF UNIT) MJ (4)
Q1 MIC AMP
Q2 MIC AMP
Q3 E.F
Q4 VOX AMP
TA-7042M
Q5 RELAY CO
MK-10D
MK-10(F)
(2SK19GR)
2SC372Y
(2SC828P)
2SC372Y
(2SC828P)
J4 PATCH
J3 MIC
J8 PTT
VR2a MIC GAIN
I.C
D1~D4 1S1555
Q7 SIDE TONE
2SC373
(2SC828Q)
Q8 AF STK-401
I.C
J17 SIDE TONE
J2 KEY
(PB-1229 PRE AMP)
Q3 AF GAIN 2SC372Y
+13.5V
ANTI TRIP
J18
S5b
J10 PHONES
J11 AUX
J12 SP
SP1 INT SP
MOX
PTT
VOX
S7
BUFF
VFO OSC
Q1 2SK19GR
BUFF
Q2 2SK19GR
Q3 2SC372Y
(2SC828P)
(PB-1056)
6V REG
CLARI
M1
NOTES
1. ALL RESISTORS ARE IN 1/4W UNLESS OTHERWISE NOTED.
2. ALL CAPACITORS ARE IN uF UNLESS OTHRWISE NOTED.
3. ALL ELECTROLYTIC CAPACITORS ARE 16WV UNLESS OTHRWISE NOTED.
4 ※ VALUE IS NOMINAL.


Q5 RELAY CONT.
MK-10D
Q6
2SC373
MJ (5)
(PB-1184A MOD & OSC UNIT)
Q4 2SC828P BUFF
IF
Q1 MK-10 (D)
Q3 2SC372Y
USB
AM MOD/CW BUFF
Q2 2SC372Y
(2SC828P)
Q6 2SC372Y
AM/CW
Q5 2SC372Y
LSB
D1~D4 1S1007
IF OUT
IF
Q1 2SK19GR
AGC & S-METER
Q4 2SC828Q
Q5
2SC828Q
(PB-1292 N B UNIT)
Q2 2SK19GR
Q1 2SC372Y
Q5
Q6 2SC372Y 2SK34E
NOISE
AMP
Q4 2SC78
SP1
INT SP
J11
AUX
S8
PO
IC
ALC
MODE
RL-1
S3
NB
OFF
ON
TUNE
CW
AM
USB
LSB
TLR-104
PL5
+13.5V


IF OUT
MJ (3) (PB-1183B IF UNIT)
MJ (2) (PB-1180B PB-1082B MIXER UNIT) PB-1166
MJ (1) (PB-1181B RF UNIT
IF
Q2 2SC784R
Q1 2SC372Y
Q3 2SC784R TRANS 2nd MIX
Q2 2SK19GR
Q2 3SK40M
Q3 CA3053 (CA3028, TA7045M)
Q2 2SC828Q
S-METER
D1~D4 1S1007
3179.3KHz
CW
XF-30C
(OPTION)
SSB
XF-32A
XF-1
3180KHz
L1~L4 250μH
T108 3180KHz
T-109
T-112A
D5, D7~D11 1S1007
EXT VFO
RF GAIN
(PB-1344 FIX UNIT)
FIX OSC
Q1 MK-10(E)
NOISE AMP
Q4 2SC784R
Q3 2SK19GR
MJ(6)
(PB-1314 REG& CALIB UNIT)
D1, D5, D6 1S1555
REGULATE
Q6 2SC372Y
(2SC828P)
Q5 2SD313
LOCAL OSC
Q4 2SC372Y
E.F
Q5 2SC373
RF
Q1
3SK4
INT
EXT
CH1
CH2
CLAR
+13.5V
+6V
R:O
12BYTA BIAS
(-20V)
V2,V3 BIAS


MJ (1)
(PB-1181B RF UNIT)
Q3 2SC784R
TRANS 2nd MIX
Q2 2SK19GR
RF
Q1
3SK40
E.F
Q5 2SC373
OSC
Q4
2SC372Y
V1 12BY7A
DRIVE
PB-1092
PB-1187A
PB-1188 RF TRIMMER
PB-1073A
V2 V3 PA
6JS6Cx2
PRESELECT
BAND
PLATE
RF OUT
25KHz MULTI
Q2
2SC735Y
Q3
2SC735Y
Q1 2SC735Y
100KHz OSC
Q4 2SC735Y
BUFF
Q1.Q2
2SB206
PB-1076B
ACC
25KHz
OFF
100KHz
PL2
15V SWAN
PL1
15V(SWAN)
PL3
14V
PL6
TLR-104
T-12 20mH 0.5A
+300V
+160V
+600V
+500V
-100V
-150V
12BY7A


V2 V3 PA
6JS6Cx2
PB-1116A
PB-1076B
RL-2
HEATER
POWER
OFF
RF ATT
FUSE
FAN
AC LINE
RED
BLACK
220V AC
2SB206
T-11
T-101A

マルチコネクター各端子の抵抗値

MJ / ピン番号	1	2	3	4	5	6	7
1	E	E	E	E	E	E	∞
2	E	E	150	30k	0	10k	E
3	300	0	10	0	∞	4k	E
4	3k	E	∞	※	10k	10k	0
5	300	∞	0	∞	200	30k	0
6	200	E	1k	E	5	50k	0
7	E	10	E	0	E	3k	10
8	0	E	0	1k	5k	6k	100k
9	2.5k	120	10k	10k	1k	120	E
10	※	E	3k	50k	10	0	E
11	100	∞	10	E	1M	3k	
12	120	E	1k	50k	3k	10	
13	120	0	3k	∞	1.2k	200	
14	10	E	E	200	700	10	
15	0	100	∞	10		50k	
16	0	100	∞	10		0	
17	100	E	∞	※		∞	
18	E	E	∞	∞		E	
19			10	※			
20			120	E			
21			200	E			
22			E	※			

抵抗値はVTVMのリードの極性によって差があります。この表の抵抗値は高い方を示します。

マルチコネクター各端子の電圧

MJ / ピン番号	1		2		3		4		5		6		7	
	R	T	R	T	R	T	R	T	R	T	R	T	R	T
1	E	E	E	E	E	E	E	E	E	E	E	E	0	0
2	E	E	E	E	0	0	0	0	0	0	−70	−55	E	E
3	6.0	6.0	0	0	13.0	12.5	0	0	0.7	0.7	−18	0	E	E
4	0.5	0.5	E	E	0	0	0	0	8.5	8.5	−20	−3.5	0	0
5	5.5	5.5	0	0	0	0	0	0	6.0	6.0	−150	−140	0	13.0
6	6.0	6.0	E	E	0	0	E	E	0	0	170	170	0	0
7	E	E	13.0	12.5	E	E	0	0	E	E	2.7	2.7	13.5	13.5
8	0	0	E	E	0	11.5	0	0	0	0	0.6	2.7	1.0	1.0
9	8.0	13.0	12.0	0	9.0	9.0	9.0	9.0	0	0	12.5		E	E
10	0	11.5	E	E	6.5	0.35	1.5	1.5	13.0	12.5	0	11.5	E	E
11	13.0	12.5	0	0	13.0	12.5	E	E	0	0	2.5	2.5		
12	12.5	0	E	E	0.7	0.7	9.0	9.0	6.6	0.3	13.5	13.0		
13	12.0	0	0	11.5	8.0	13.0	0	0	12.5	0	6.0	6.0		
14	13.0	12.5	E	E	E	E	6.0	6.0	12.5	0.3	13.0	12.5		
15	0	0	13.0	12.5	0	0	13.0	12.5			0	0		
16	0	11.5	13.0	12.5	0	0	13.0	12.5			0	0		
17	13.0	12.5	E	E	0	0	0	0			0	0		
18	E	E	E	E	0	0	E	E			E	E		
19					13.0	12.5	E	E						
20					12.5	0	E	E						
21					6.0	6.0	E	E						
22					E	E	0	0						

MODEスイッチ：USBにて測定(VTVM使用)　単位(V)
R：受信時(PTT)　T：送信時(MOX)

マルチコネクター各端子の高周波電圧

MJ / ピン番号	1		2		3		4		5		6		7	
	R	T	R	T	R	T	R	T	R	T	R	T	R	T
1	E	E	E	E	E	E	E	E	E	E	E	E	3180kHz 85dB	—
2	E	E	E	E	—	—	—	—	—	—	—	—	E	E
3	※3	※3	3180kHz 85dB	0	—	—	—	—	—	—	—	—	E	E
4	※2	※2	E	E	—	—	—	—	—	—	—	—	3180kHz 85dB	—
5	—	—	—	0	0.6	0	—	—	—	—	—	—	—	—
6	—	—	E	E	—	—	E	E	1	1	—	—	—	—
7	E	E	—	—	E	E	—	—	E	E	—	—	—	—
8	14MHz 48dB	—	E	E	—	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	E	E
10	—	—	E	E	3180kHz 70dB	0.01	—	—	—	—	—	—	E	E
11	14MHz 60dB	1	0.08	0.06	—	—	E	E	—	—	—	—		
12	—	—	E	E	—	—	—	—	—	0.1	—	—		
13	—	0.06	—	—	—	—	—	—	—	—	—	—		
14	—	—	—	E	E	E	—	—	—	—	—	—		
15	0.3	0.8	5720kHz 66dB	0.3	3180kHz 83dB	0.06	—	—			—	—		
16	—	—	5720kHz 56dB	0.1	—	—	—	—			—	—		
17	5720kHz 70dB	0.3	E	E	3180kHz 78dB	0.03	—	—			—	—		
18	E	E	E	E	—	—	E	E			E	E		
19					—	—	E	E						
20					—	—	—	—						
21					—	—	—	—						
22					E	E	—	—						

MODEスイッチ：USB，BAND：20m　単位(V)
R：受信時(PTT)S－9振れるのに必要なSGの出力電圧(dB)
T：送信時(MOX)1kHz単信号を加え100W出力時の高周波電圧(V)

パーツリストについてのご注意

本機の部品番号はユニットごとに1から始まっています. 従って部品についてご照会いただく場合は, ユニット名と部品番号をあわせてご指定ください。

RF UNIT

PRINTED CIRCUIT BOARD PB-1181(A～Z)

Q-FET & TRANSISTOR

4	TR.	2SC372Y
5	TR.	2SC373
3	TR.	2SC784R
2	FET	2SK19GR
1	FET	3SK40M

D-DIODE

1, 2	Si.	1S1555

R-RESISTOR

CARBON FILM

22	¼W	56 Ω ±10%
23	¼W	100 Ω ±10%
16, 24	¼W	220 Ω ±10%
6	¼W	330 Ω ±10%
10, 19	¼W	470 Ω ±10%
11	¼W	560 Ω ±10%
9, 13	¼W	1 KΩ ±10%
7	¼W	1.8KΩ ±10%
8	¼W	2.2KΩ ±10%
17, 20	¼W	3.3KΩ ±10%
21	¼W	8.2KΩ ±10%
14, 18	¼W	15 KΩ ±10%
2	¼W	22 KΩ ±10%
4	¼W	82 KΩ ±10%
1, 3, 5, 12	¼W	100 KΩ ±10%

VR-VARIABLE RESISTOR

1	TR-11R	5KΩB

C-CAPACITOR

DIPPED MICA

17	50WV	6PF ±0.5PF
5	50WV	50PF ±10%
1, 11	50WV	100PF ±10%

CERAMIC DISC

3	50WV	0.001μF	+80% −20%
2, 4, 7～10, 12～16,	50WV	0.01 μF	+80% −20%
6, 18	50WV	0.047μF	+80% −20%

ELECTROLYTIC

19	16WV	47μF

L-INDUCTOR

1, 2	RF CHOKE	1mH

MIXER UNIT

PRINTED CIRCUIT BOARD PB-1082(A～Z)
PB-1180(A～Z)

Q-FET & TRANSISTOR

1	TR.	2SC372Y
2	FET	3SK40M

D-DIODE

1	Si.	1S1555

R-RESISTOR

CARBON FILM

12	¼W	10 Ω ±10%
5, 7	¼W	100 Ω ±10%
13	¼W	470 Ω ±10%
3, 16, 17	¼W	1 KΩ ±10%
2	¼W	4.7 KΩ ±10%
14, 15	¼W	5.6 KΩ ±10%
10	¼W	10 KΩ ±10%
4, 6	¼W	15 KΩ ±10%
11	¼W	22 KΩ ±10%
1	¼W	27 KΩ ±10%
8	¼W	100 KΩ ±10%
9	¼W	220 KΩ ±10%

C-CAPACITOR

DIPPED MICA

6, 19	50WV	20PF ±10%
1, 8	50WV	40PF ±10%
8	50WV	100PF ±10%
2	50WV	470PF ±10%

CERAMIC DISC

7	50WV	0.001μF	+80% −20%
3～5, 9, 11, 13	50WV	0.01 μF	+80% −20%
17	50WV	0.047μF	+80% −20%

CERAMIC FEED THRU

14～16	500WV	0.001μF	+100% −0%

ELECTROLYTIC

18	16WV	1μF

TC-TRIMMER CAPACITOR

CERAMIC

1～3	ECV1ZW50P32	50PF

L-INDUCTOR

1	BPF-A	
2	BPF-B	
3	BPF-C	
34	RF CHOKE	1.95μH
4, 8	RF CHOKE	250μH

T-TRANSFORMER & INDUCTOR

112A	IF TRASFORMER	
113	TRAP COIL	

X-CRYSTAL

1	HC-18/U	6360KHz

IF UNIT

PRINTED CIRCUIT BOARD PB-1183(A～Z)

Q-FET, IC & TRANSISTOR

2	TR.	2SC784R
4, 5	TR.	2SC828Q
3	IC	CA3053
1	FET	2SK19GR

D-DIODE

1～5, 7～11	Ge.	1S1007
6	Si.	1S1555
12	Zener	WZ-110

R-RESISTOR

CARBON FILM

2, 13, 16	¼W	100 Ω ±10%
23	¼W	220 Ω ±10%
20	¼W	470 Ω ±10%
12, 15, 19	¼W	1 KΩ ±10%
3, 14	¼W	2.2KΩ ±10%
8, 9, 22	¼W	3.3KΩ ±10%
11	¼W	3.9KΩ ±10%
4, 5	¼W	5.6KΩ ±10%
17, 24, 25, 27	¼W	10 KΩ ±10%
10	¼W	27 KΩ ±10%
1, 18, 21	¼W	100 KΩ ±10%

CARBON COMPOSITION

26	¼W	1 MΩ ±10%
6, 7	½W	100 Ω ±10%

VR-VARIABLE RESISTOR

1	TR12R	500ΩB
2	TR11R	500ΩB

C-CAPACITOR

DIPPED MICA

1, 24, 25	50WV	100PF ±10%

15, 22	50WV	150PF ±10%	
11, 17	50WV	470PF ±10%	
CERAMIC DISC			
26～28	50WV	0.001μF	+80% −20%
2～6, 9, 10, 12, 13, 18, 20, 21, 23, 31～34	50WV	0.01 μF	+80% −20%
7, 8, 14, 16, 19, 35	50WV	0.047μF	+80% −20%
PLASTIC FILM			
29	50WV	0.47 μF ±20%	
ELECTROLYTIC			
30	16WV	10μF	
L-INDUCTOR			
1～4	RF CHOKE	250μH	
T-TRANSFORMER & INDUCTOR			
108	IF TRANSFORMER		
109	IF TRANSFORMER(DETECTOR)		
XF-CRYSTAL FILTER			
1	XF-32A SSB		
2	XF-30C CW(OPTION)		

AF UNIT

PRINTED CIRCUIT BOARD PB-1315(A～Z)

Q-FET, IC & TRANSISTOR		
2, 3	TR.	2SC372Y
6, 7	TR.	2SC373
5	FET	MK-10D
1	FET	2SK19GR
8	IC	STK401
4	IC	TA7042M
D-DIODE		
1～4	Si.	1S1555
5	Zener	WZ-090

R-RESISTOR		
CARBON FILM		
42	¼W	4.7Ω ±10%
40	¼W	82 Ω ±10%
13, 44, 45	¼W	100 Ω ±10%
41	¼W	220 Ω ±10%
12	¼W	330 Ω ±10%
16, 17, 33, 38, 39	¼W	470 Ω ±10%
27	¼W	680 Ω ±10%
5, 8, 15	¼W	1 KΩ ±10%
21	¼W	1.5KΩ ±10%
20, 28, 34	¼W	2.2KΩ ±10%
6	¼W	3.3KΩ ±10%
1, 3, 14, 19, 29～31	¼W	4.7KΩ ±10%
4	¼W	5.6KΩ ±10%
9, 10, 35	¼W	10 KΩ ±10%
11, 18	¼W	15 KΩ ±10%
7	¼W	22 KΩ ±10%
43, 47	¼W	27 KΩ ±10%
32	¼W	33 KΩ ±10%
2, 36, 37, 46	¼W	47 KΩ ±10%
22	¼W	470 KΩ ±10%
CARBON COMPOSITION		
23, 24	¼W	3.3MΩ ±10%
25	¼W	5.6MΩ ±10%
26	THERMISTOR	SDT-250

VR-VARIABLE RESISTOR		
3, 4	TR11R	10KΩB
1, 5	V160KRZ-1	10KΩB
2	V160KRZ-1	2MΩB
C-CAPACITOR		
DIPPED MICA		
46	50WV	100PF ±10%
PLASTIC FILM		
47	50WV	0.0047μF ±20%

15, 27, 39	50WV	0.001μF ±20%
1, 9, 12, 17, 22, 33, 34	50WV	0.01 μF ±20%
24, 28～30	50WV	0.022μF ±20%
3, 25, 26, 45, 48, 50	50WV	0.047μF ±20%
23, 32	50WV	0.1 μF ±20%
11	50WV	2.2 μF ±20%
ELECTROLYTIC		
5～7, 10, 14, 21, 36	16WV	1μF
2, 16, 19, 20, 31	16WV	10μF
8, 35, 40, 43	16WV	22μF
38	16WV	47μF
4, 18, 41, 42, 49	16WV	100μF
13, 44	16WV	220μF

MOD. & OSC UNIT

PRINTED CIRCUIT BOARD PB-1184(A～Z)

Q-FET & TRANSISTOR		
2, 3, 5, 6	TR.	2SC372Y
4	TR.	2SC828P
1	FET.	MK-10D
D-DIODE		
1～4	Ge.	1S1007

R-RESISTOR		
CABON FILM		
18	¼W	100 Ω ±10%
1, 3	¼W	150 Ω ±10%
19	¼W	180 Ω ±10%
2, 21, 30	¼W	470 Ω ±10%
9～11, 14, 24, 28	¼W	1 KΩ ±10%
20	¼W	1.5KΩ ±10%
6, 8	¼W	2.2KΩ ±10%
12, 15, 16, 22, 25, 26, 29	¼W	4.7KΩ ±10%
32	¼W	10 KΩ ±10%
33	¼W	15 KΩ ±10%
13, 17, 23, 27	¼W	22 KΩ ±10%
7	¼W	33 KΩ ±10%
4	¼W	100 KΩ ±10%

VR-VARIABLE RESISTOR		
1	TR11R	500ΩB
2	TR11R	5KΩB
C-CAPACITOR		
DIPPED MICA		
20, 28, 30	50WV	30PF ±10%
19, 27, 32	50WV	40PF ±10%
38	50WV	50PF ±10%
5, 10, 37	50WV	100PF ±10%
4	50WV	150PF ±10%
21	50WV	300PF ±10%
23, 36	50WV	1000PF ±10%
CERAMIC DISC		
31	50WV	0.001μF +80% −20%
2, 8, 9, 13, 17, 18, 24, 26, 29, 33	50WV	0.01 μF +80% −20%
6, 11, 22, 25, 34	50WV	0.047μF +80% −20%
PLASTIC FILM		
12	50WV	0.22 μF ±20%
ELECTROLYTIC		
15	16WV	100μF

TC-TRIMMER CAPACITOR		
CERAMIC		
2～4	ECV1ZW20P40	20PF
1, 5, 6	ECV1ZW50P40	50PF
L-INDUCTOR		
5	RF CHOKE	10μH
2～4, 6, 7	RF CHOKE	22μH
8, 9	RF CHOKE	250μH

T-TRANFORMER

110	IF TRANSFORMER	

X-CRYSTAL

1	HC-6/U	3178.5KHz(USB)
2	HC-6/U	3181.5KHz(LSB)
3	HC-6/U	3179.3KHz(CW/AM)

REG. & CALIB UNIT

PRINTED CIRCUIT BOARD PB-1314(A~Z)

Q-TRANSISTOR

6	TR.	2SC372Y
1~4	TR.	2SC735Y
5	TR.	2SD313

D-DIODE

2	Zener	1S993
1, 5, 6	Si	1S1555
3	Zener	WZ-090

R-RESISTOR

CARBON FILM

3, 10	1/4W	100 Ω ±10%
22	1/4W	220 Ω ±10%
17, 19,	1/4W	330 Ω ±10%
26	1/4W	470 Ω ±10%
18	1/4W	1 KΩ ±10%
12	1/4W	1.5KΩ ±10%
20	1/4W	2.2KΩ ±10%
4, 7, 11	1/4W	4.7KΩ ±10%
1, 8, 13, 15, 24	1/4W	10 KΩ ±10%
25	1/4W	15 KΩ ±10%
5	1/4W	27 KΩ ±10%
6	1/4W	33 KΩ ±10%
14	1/4W	47 KΩ ±10%
2, 9	1/4W	100 KΩ ±10%

CARBON COMPOSITION

16	2W	6.8KΩ ±10%

VR-VARIABLE RESISTOR

4	TR11R	500ΩB
3	TR11R	1KΩB
1	TR11R	10KΩB
2	V160KRZ-1	10KΩB

C-CAPACITOR

DIPPED MICA

5, 6, 21	50WV	30PF ±10%
9	50WV	40PF ±10%
20	50WV	50PF ±10%
2	50WV	100PF ±10%
1	50WV	250PF ±10%
7, 8	50WV	1000PF ±10%
3	50WV	2000PF ±10%

CERAMIC DISC

4, 19	50WV	0.01μF +80% −20%

PLASTIC FILM

24	250WV	0.047μF ±20%

ELECTROLYTIC

14~16	16WV	1000μF
17, 18	25WV	1000μF
13	160WV	22μF
10~12	250WV	22μF

TC-TRIMMER CAPACITOR

CERAMIC

1	ECV1ZW50P32	50PF

L-INDUCTOR

1, 2	RF CHOKE	4mH

X-CRYSTAL

1	HC-13/U	100KHz

NB UNIT

PRINTED CIRCUIT BOARD PB-1292(A~Z)

Q-FET & TRANSISTOR

1, 6	TR.	2SC372Y
4	TR.	2SC784R
2, 3	FET	2SK19GR
5	FET	2SK34E

D-DIODE

1~3	Si	1S1555
4	Zener	WZ090

R-RESISTOR

CARBON FILM

4, 13	1/4W	100 Ω ±10%
16	1/4W	330 Ω ±10%
3	1/4W	560 Ω ±10%
6, 8, 12, 19	1/4W	1 KΩ ±10%
18	1/4W	1.5KΩ ±10%
15	1/4W	2.2KΩ ±10%
9, 11, 21, 22	1/4W	3.3KΩ ±10%
1	1/4W	4.7KΩ ±10%
2, 10	1/4W	22 KΩ ±10%
5, 7, 14, 17, 20	1/4W	100 KΩ ±10%

VR-VARIABLE RESISTOR

1	TR11R	10KΩB

C-CAPACITOR

DIPPED MICA

1	50WV	3PF ±0.5PF
13	50WV	6PF ±1PF
3, 9, 16, 18	50WV	30PF ±10%
12	50WV	50PF ±10%
11, 21, 22	50WV	100PF ±10%
2, 4, 8, 15	50WV	130PF ±10%

CERAMIC DISC

5, 10, 14, 17, 19, 20, 24, 25, 28, 29	50WV	0.01μF +80% −20%
6, 26, 27	50WV	0.047μF +80% −20%

ELECTROLYTIC

7, 23	16WV	1μF

TC-TRIMMER CAPACITOR

CERAMIC

1~4	ECV1ZW50P40	50PF

L-INDUCTOR

2	RF CHOKE	250μH
1, 3~5	RF CHOKE	1mH

T-TRANSFORMER

116~119	IF TRANSFORMER	R124129

FIX UNIT

PRINTED CIRCUIT BOARD PB-1344(A~Z)

Q-FET

1	FET	MK10E

D-DIODE

1	Varactor	1S145

R-RESISTOR

CARBON FILM

2	1/4W	56 Ω ±10%
3	1/4W	100 Ω ±10%
1, 4	1/4W	100KΩ ±10%

C-CAPACITOR

DIPPED MICA

5	50WV	20PF ±10%
3	50WV	50PF ±10%

CERAMIC DISC

1, 2, 4	50WV	0.01μF +80% −20%

L-INDUCTOR

2	RF CHOKE	250μH
1	FIX OUTPUT COIL	

VFO UNIT

PRINTED CIRCUIT BOARD PB-1056(A~Z)

Q-FET & TRANSISTOR

3	TR.	2SC372Y
1, 2	FET	2SK19GR

D-DIODE

1	Varactor	1S145

R-RESISTOR

CARBON FILM

4, 7	1/4W	100 Ω ±10%
10	1/4W	270 Ω ±10%
3, 6	1/4W	330 Ω ±10%
8	1/4W	8.2KΩ ±10%

1	¼W	10	KΩ ±10%
9	¼W	22	KΩ ±10%
2, 5	¼W	100	KΩ ±10%
CARBON COMPOSITION			
11(L5)	½W	1	KΩ ±10%

C-CAPACITOR

DIPPED MICA			
16	50WV	20PF	±10%
8, 10	50WV	100PF	±10%
1, 2	50WV	650PF	±10%
11	50WV	1000PF	±10%
11	50WV	2000PF	±10%
CERAMIC DISC			
6, 7, 9, 12, 15	50WV	0.01 μF	+80% −20%
3, 5, 13	500WV	0.01 μF	+100% −0%
CERAMIC TC			
14	NP0	6PF	±0.5PF
4	NP0	10PF	±10%
19	NP0	82PF	±10%
20	N750	2PF	±0.5PF
18	N750	7PF	±0.5PF
17	N750	20PF	±10%

VC-VARIABLE CAPACITOR

1	AIR	B521A112

TC-TRIMMER CAPACITOR

1	AIR	TSN150C30PF
2	AIR	TSN170C10PF×2

L-INDUCTOR

1	OSCILLATOR COIL	
2~4, 6, 7	RF CHOKE	250μH
5(R11)	RF CHOKE	

RECTIFIER UNIT

PRINTED CIRCUIT BOARD PB-1076(A~Z)

D-DIODE

5, 6	Si.	1S1942
1~4, 9~12	Si.	10D10
7, 8	Si.	V06B

R-RESISTOR

CARBON FILM			
6~13	¼W	470	KΩ ±10%
CARBON COMPOSITION			
4, 5	1 W	3.3Ω	±10%
1	2 W	5.6Ω	±10%
METALIC FILM			
3	5W	220	Ω ±10%

C-CAPACITOR

CERAMIC DISC			
6	50WV	0.047μF	+80% −20%
4	500WV	0.01 μF	+100% −0%
1, 2, 5	1.4KV	0.0047μF	+100% −0%
ELECTROLYTIC			
3	25WV	470μF	

MAIN CHASSIS

V-VACUUM TUBE

1	12BY7A
2, 3	6JS6C

Q-TRANSISTOR

1, 2	TR.	2SB206
3	TR.	2SC372Y

D-DIODE

4, 7	Ge.	1S1007
1~3, 8, 11~13	Si.	1S1555
14	Si.	1S1941
9	Zener	WZ-090

R-RESISTOR

CARBON FILM			
48	¼W	220	Ω ±10%
22	¼W	330	Ω ±10%
18	¼W	470	Ω ±10%
26, 62	¼W	560	Ω ±10%
64, 65, 68	¼W	1K	Ω ±10%
50	¼W	1.5K	Ω ±10%
61, 63	¼W	4.7K	Ω ±10%
23, 24, 33, 34	¼W	5.6K	Ω ±10%
25, 59	¼W	10 K	Ω ±10%
60	¼W	33K	Ω ±10%
CARBON COMPOSITION			
54	½W	10	Ω ±10%
4, 9, 17, 39, 69	½W	56	Ω ±10%
14, 51, 53, 55	½W	100	Ω ±10%
16	½W	470	Ω ±10%
35	½W	680	Ω ±10%
7, 38, 66	½W	1 K	Ω ±10%
6, 67	½W	2.2K	Ω ±10%
2	½W	3.3K	Ω ±10%
44	½W	4.7K	Ω ±10%
19, 20	½W	5.6K	Ω ±10%
8	½W	10 K	Ω ±10%
36, 56	½W	33 K	Ω ±10%
3	½W	47 K	Ω ±10%
28, 29	½W	470 K	Ω ±10%
13	½W	1 M	Ω ±10%
10, 11	1 W	56	Ω ±10%
METALIC FILM			
30	1 W	47 K	Ω ±10%
5	3 W	5.1K	Ω ±10%
40	5 W	1.5K	Ω ±10%
37	5 W	18 K	Ω ±10%
WIRE WOUND			
12	METER SHUNT		

VR-VARIABLE RESISTOR

3	EVCBOQS20B13	1KΩB
6	EVHBOAS15B13	1KΩB
1	EVKA2AF02314	5KΩA/1KΩB
2	EVKA2AF01339	5KΩA/5KΩB
4	TR-11R	500ΩB

C-CAPACITOR

DIPPED MICA		
123	500WV	2PF ±0.5PF
134	500WV	3PF ±0.5PF
28	500WV	5PF ±0.5PF
1, 16, 98, 107	500WV	10PF ±10%
44	500WV	20PF ±10%
97, 106, 122	500WV	30PF ±10%
5, 10, 42, 43, 47	500WV	50PF ±10%
135	500WV	60PF ±10%
48, 53, 55, 92, 99	500WV	100PF ±10%
46, 111	500WV	150PF ±10%
29	500WV	200PF ±10%
9, 127	500WV	250PF ±10%
4	500WV	270PF ±10%
41, 45	500WV	300PF ±10%
105, 108	500WV	400PF ±10%
2, 26, 136	500WV	470PF ±10%
7, 27, 120, 121, 128~131	500WV	1000PF ±10%
17	500WV	2200PF ±10%
133	500WV	3000PF ±10%
MOULDED MICA		
13, 104	1KWV	80PF ±10%
125	1KWV	100PF ±10%
11	1KWV	200PF ±10%
23	1.5KWV	1000PF ±10%
CERAMIC DISC		

51, 62, 65, 81～83, 86, 87, 90, 118	50WV	0.01 μF	+80% −20%
33, 38, 50, 52, 59～61, 66, 69～73, 85, 89, 91, 94, 95, 100, 103	50WV	0.047μF	+80% −20%
8, 14, 15, 20, 22	500WV	0.0047μF	+100% −0%
3, 19, 21, 101, 102	500WV	0.01 μF	+100% −0%
74	1.4KV	0.001μF	+100% −0%
24	1.4KV	0.0047μF	+100% −0%
36, 75	1.4KV	0.01 μF	+100% −0%
25	(RDA30) 3KV	150PF ±10%	
132	3KV	600PF ±10%	
CERAMIC FEED THRU			
30～32, 34, 35, 37, 39, 40, 67, 68, 84, 110	500WV	0.001μF	+100% −0%
PLASTIC FILM			
140, 141	50WV	0.047μF ±20%	
18	50WV	0.22 μF ±20%	
49	50WV	0.47 μF ±20%	
METALIZED PAPER			
76	160WV	2.2 μF ±20%	
145	220VAC	1μF	
ELECTROLYTIC			
142	16WV	1μF	
54, 144	16WV	10μF	
143	16WV	100μF	
63	16WV	220μF	
109	450WV	2.2μF	
77, 78	500WV	100μF	

VC-VARIABLE CAPACITOR

1	(PLATE) AIR	RT18B300VC	300PF
2	(LOADING)AIR	C123A129	

TC-TRIMMER CAPACITOR

CERAMIC			
5		ECV1ZW10P32	10PF
1～4, 11～25		ECV1ZW50P32	50PF
7, 8, 9	MICA	B-1PY	40PF
6, 31		B-2PY	100PF
10, 26, 28, 29		B-7P	420PF
27	AIR	TSN-150C	10PF
PLASTIC FILM			
30		CTY12B	10PF

L-INDUCTOR

12, 13, 16～18, 20, 21, 26, 31, 35, 38	RF CHOKE	250μH
3, 11, 14, 15, 36	RF CHOKE(TV-245)	250μH
9	RF CHOKE	300μH
7	RF CHOKE(PLATE)	500μH
2	RF CHOKE	1mH
24	P.S. ½W56Ω0.3φ 10TS	
1, 4, 37	P.S. ½W56Ω0.6φ 4TS	
5, 6	P.S. 1 W56Ω1.0φ 4TS	
8	TANK COIL	
22	TRAP COIL	
28	TRAP COIL	
29	TRAP COIL	
32	TRAP COIL	
33	TUNING COIL	
25	L.P.FILTER COIL	

T-TRANFORMER & INDUCTOR

101A	ANT COIL A
102	GRID COIL A
103	DRIVER COIL A
104	ANT COIL B
105	DRIVER COIL B
106	GRID COIL B
107	5MHz TRAP COIL
111	6.36MHz TRAP COIL
115	3.18MHz TRAP COIL
112A	BAND PASS NETWORK

T-TRANSFORMER & CHOKE COIL

11	POWER TRANSFORMER
12	AF CHOKE 20mH 0.5A

F-FUSE

1	AC 5A(100～117V)3A(200～234V)
2	DC 20A

FH-FUSE HOLDER

1	AC S-N1001
2	DC S-N1102

RL-RELAY

1	AE3171-42
2	MX2P

S-SWITCH

1	ROTARY RS13-13-11(BAND)
2	ROTARY ESRE365R20Z(MODE)
4	ROTARY ESRE246R20Z(SELECT)
6	SEASAW WD3001 (POWER)
5	SEASAW WD3201 (HEATER)
3, 10	SLIDE SS-F22-08
7～9	SLIDE SS-H23-08

X-CRYSTAL

1	80M	HC-25/U	9.52MHz
2	40M	HC-25/U	13.02MHz
3	20M	HC-25/U	20.02MHz
4	15M	HC-25/U	27.02MHz
5	11M	HC-25/U	33.02MHz
6	10M-A	HC-25/U	34.02MHz
7	10M-B	HC-25/U	34.52MHz
8	10M-C	HC-25/U	35.02MHz
9	10M-D	HC-25/U	35.52MHz
10	JJY/WWV	HC-25/U	16.02MHz
11	160M	HC-25/U	7.52MHz

MJ-MULTI JACK

1, 2, 6	3305-018-011	18P
3, 4	3305-022-011	22P
5	3305-014-011	14P
7	3305-010-011	10P

PL-LAMP

1, 2, 4	15V 0.15A
3	14V 40mA
5, 6	TLR-104

PLH-LAMP HOLDER

1, 2	#001011
3	B-1

VS-TUBE SOCKET

1	TS103C01
2, 3	S-B0703

J-RECEPTACLE & JACK

1, 4, 5, 7, 8, 11, 16～18	CN-7017
2	S-G7616 (KEY)
10	S-G7814 (PHONE)
3	FM-144 (MIC)
6	JSO-239 (ANT)
9	450AB12M(POWER)
12	P2240 (SP)
13	S-B0611 (EXT.VFO)
14	SA602B(ACC)
15	S-I6303 (FAN)

M-METER

1	MK-45

(PB-1315 AF UNIT) MJ (4)

Q1 MIC AMP 2SK19GR

Q2 MIC AMP 2SC372Y (2SC828P)

Q3 E.F 2SC372Y (2SC828P)

Q4 VOX AMP TA-7042M

Q5 RELAY CONT 2SK19Y

Q6 2SC373

Q7 SIDE TONE 2SC373 (2SC828Q)

Q8 AF STK-401

D1~D4 1S1555

J4 PATCH

J3 MIC

J8 PTT

J17 SIDE TONE

J2 KEY

(PB-1229 PRE AMP) J1

Q3 AF GAIN 2SC372Y

J18 ANTI TRIP

J10 PHONES

J11 AUX

J12 SP

SP1 INT SP

S5 b

S7 MOX PTT VOX

S8 PO TC ALC

RL-1

MJ (5) (PB-1184A MOD & OSC UNIT)

Q4 2SC828P BUFF

IF Q1 2SK19Y

AM MOD/CW BUFF Q2 2SC372Y (2SC828P)

Q3 2SC372Y USB

Q5 2SC372Y LSB

Q6 2SC372Y AM/CW

D1~D4 1S1007

IF OUT

MJ (3)

IF Q1 2SK19GR

AGC & S-METER Q4 2SC828Q

Q5 2SC828Q

D5, D7~D11 1S1007

(PB-1292 NB UNIT) Q2 2SK19GR Q1 2SC372Y

Q5 Q6 2SC372Y 2SK19GR

NOISE AMP Q4 2SC784R Q3 2SK

(PB-1056) BUFF

VFO OSC Q1 2SK19GR

BUFF Q2 2SK19GR

Q3 2SC372Y (2SC828P)

6V REG

TLR-104 PL5

NOTES

1. ALL RESISTORS ARE IN 1/4W UNLESS OTHERWISE NOTED.
2. ALL CAPACITORS ARE IN uF UNLESS OTHRWISE NOTED.
3. ALL ELECTROLYTIC CAPACITORS ARE 16WV UNLESS OTHRWISE NOTED.
4. ※ VALUE IS NOMINAL.

FT-101B CIRCUIT DIAGRAM

MJ (5)
(PB-1184A MOD & OSC UNIT)
Q4 2SC828P BUFF
QI 2SK19 Y
IF
T-11C
AM MOD/CW BUFF
Q2 2SC372Y
(2SC828P)
D1~D4 1S1007
Q3 2SC372Y
USB
Q5 2SC372Y
LSB
Q6 2SC372Y
AM/CW
X1 3178.5KHz
X2 3181.5KHz
X3 3179.3KHz
L8 250μH
+13.5V
RELAY CONT.
Q6
2SC373
RELAY
L12
IF OUT
J7
MJ (3)
(PB-1183B IF UNIT)
IF
Q1 2SK19GR
IF
Q2 2SC784R
D1~D4
1S1007
3179.3KHz
CW
XF-30C
(OPTION)
R6 100 1/2W
SSB
XF-32A
XF-1
3180KHz
R7 100 1/2W
L1~L4
250μH
T108 3180KHz
D12 WZ110
AGC & S-METER
Q4 2SC828Q
Q5
2SC828Q
VR2 500 SM ADJ
T-109
3180KHz
I.C
Q3 CA3053
(CA3028, TA7045M)
D5, D7~D11 1S1007
VR1b 1K C
RF GAIN
C146 1 16WV
VR2b 5K
CARRIER
D7
1S1007
L18 250μH
L17 250μH
D8
1S1555
L22 28.6MHz
MJ (2)
(PB-1180B PB-1082B MIXER UNIT)
PB-1166
Q1 2SC372Y
T-113
14MHz TRAP
L8 250μH
D1
1S1555
TC30 10P
L32 6.36MHz TRAP
X1 6360KHz
L4 250μH
T-112A
Q2 3SK40M
L34 1.95μH
EXT VFO
J13
C108 400P
L28
MJ (1)
(PB-1181B RF UNIT)
Q3 2SC784R
TRANS 2nd MIX
VR1 5KB
Q2 2SK19GR
1S1555
L2 2mH
L1 2mH
RF
Q1
3SK40 M
T.P
E.F
Q5 2SC373
T-111
LOCAL OSC
Q4
2SC372Y
L3 250μH
C134 3P 500WV
C2 470P 500WV
R3 47K
S1m
L33
T-107 5MHz TRAP
T-102
S1f
T-106
S1e
S1a
TC1~TC4 50P
TC5 10P
TC28 420P
PB-1187A
PB-1073A
R67 2.2K
OFF
ON
PL6
TLR-104
D9 WZ090
L24
33.02MHz
27.02MHz
20.02MHz
13.02MHz
J11
AUX
SP C37
L35
R35 680
PO
IC
ALC
S8
M1
RL-1
S2a
S2b
D1 1S1555
S2c
MODE
S2d
S2e
2f
R66 1K
TLR-104
PL5
TUNE
CW
AM
USB
LSB
NB
OFF
ON
S3
(PB-1292 N B UNIT)
Q2 2SK19GR
Q1 2SC372Y
T-118
T-117
D1
1S1555
T-116
L1 1mH
Q5
Q6 2SC372Y 2SK19GR
D4 WZ090
L5 1mH
L4 1mH
D3
1S1555
L3 1mH
D2
1S1555
L2 250μH
T-119
NOISE
AMP
Q4 2SC784R
Q3 2SK19GR
(PB-1344 FIX UNIT)
FIX OSC
Q1 2SK19GR
D1 1S145
L2 250μH
CLARI
CH1
CH2
INT
RxEXT
TxEXT
EXT
S4a
S4b
S4c
S4d
V2,V3 BIAS
12BY7A BIAS (-20V)
MJ(6)
(PB-1314 REG & CALIB UNIT)
D1, D5, D6 1S1555
D13
1S1555
VR4 1KB
R68 1K
CLARI
OFF
ON
VR3 1KB
+13.5V
+6V REG
REGULATE
Q6 2SC372Y
(2SC828P)
VR3 1KB VOLT
D2 1S993
D3 WZ090
Q5
2SD313
PL2
16V SWAN
25KHz MULTI
Q2
2SC735Y
Q3
2SC735Y
X1
HC/18U 100KHZ
L1 4.7mH
QI 2SC735Y
100KHz OSC

(PB-1183B IF UNIT)

IF
Q2 2SC784R

MJ (2)
(PB-1180B PB-1082B MIXER UNIT)

Q1 2SC372Y

PB-1166

MJ (1)
(PB-1181B RF UNIT)

Q3 2SC784R
TRANS 2nd MIX

Q2 2SK19GR

RF
Q1
3SK40

Q2 3SK40M

Q3 CA3053
(CA3028, TA7045M)

E.F
Q5 2SC373

LOCAL OSC
Q4
2SC372Y

PB-1073A

VI 12BY7A
DRIVE

PB-1187A

PB-1092

PRESELECT

V2 V3 PA
6JS6Cx2

PB-1116A

(PB-1188 RF TRIMMER)

BAND

(PB-1344 FIX UNIT)

FIX OSC
Q1 2SK19GR

MJ(6)
(PB-1314 REG&CALIB UNIT)

REGULATE
Q6 2SC372Y
(2SC828P)

Q5
2SD313

25KHz MULTI

Q2
2SC735Y

Q3
2SC735Y

Q1 2SC735Y
100KHz OSC

Q4 2SC735Y
BUFF

PB-1076B

Q1.Q2
2SB206

HEATER

POWER

AC LINE

FUSE 20A
RED
BLACK

J15
FAN

220V AC