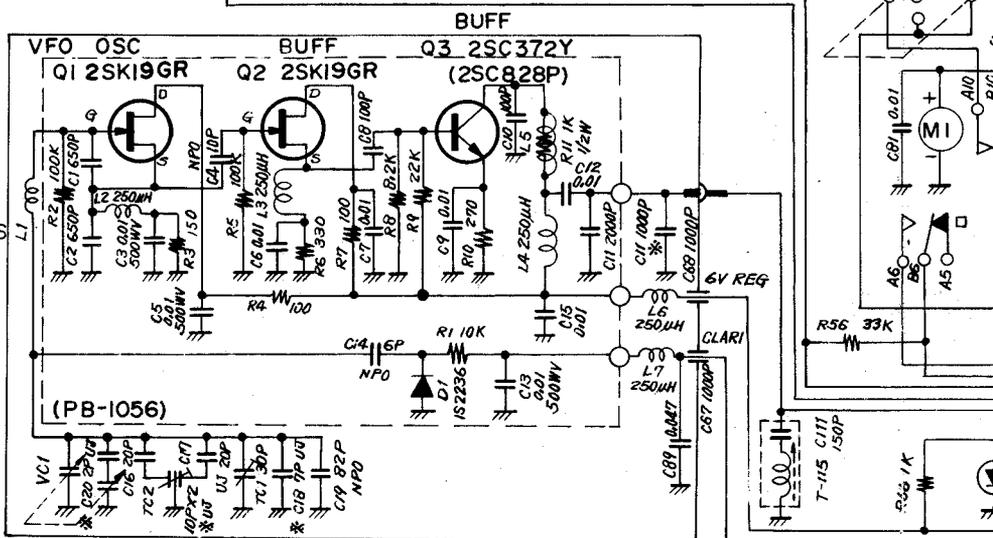


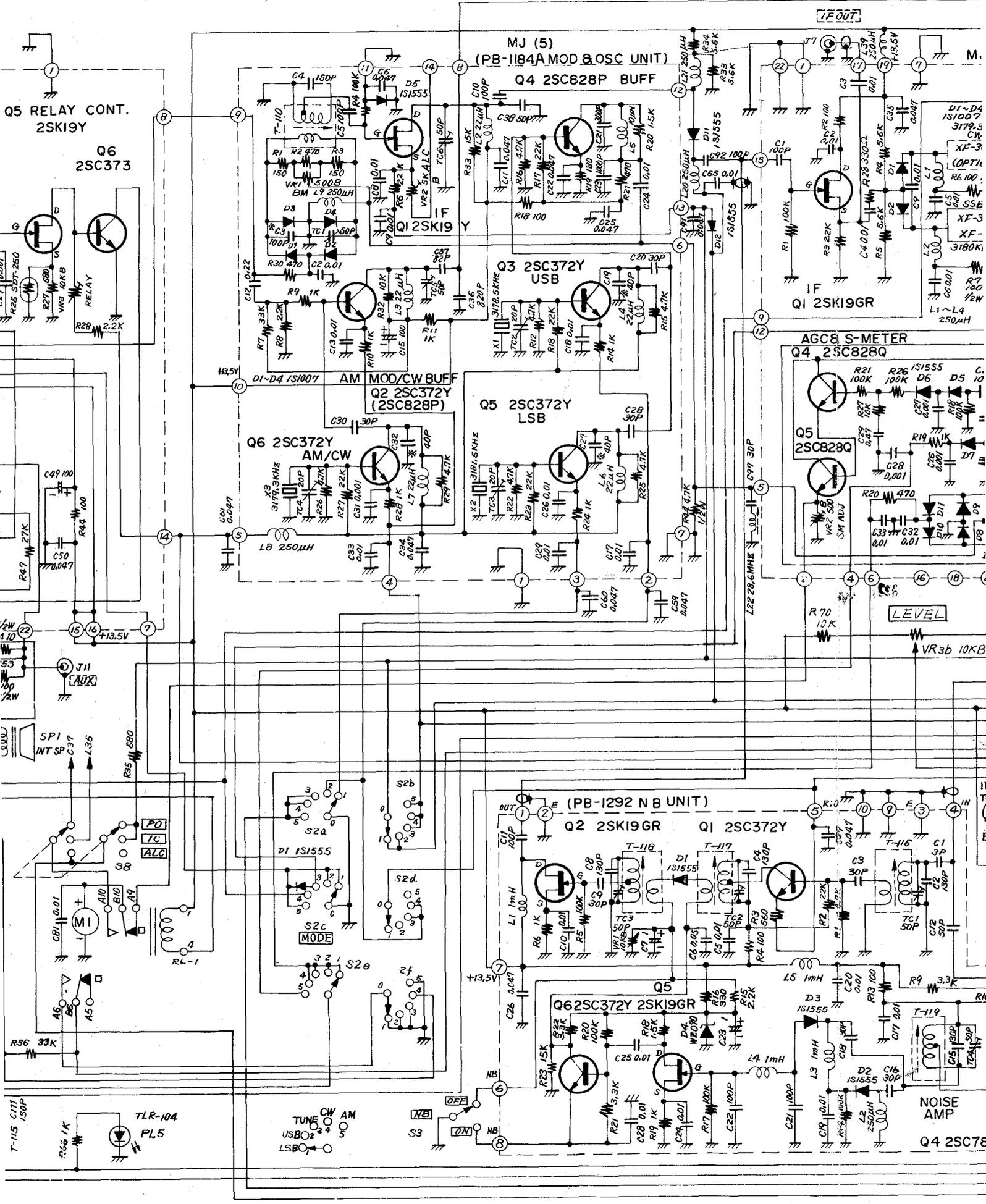
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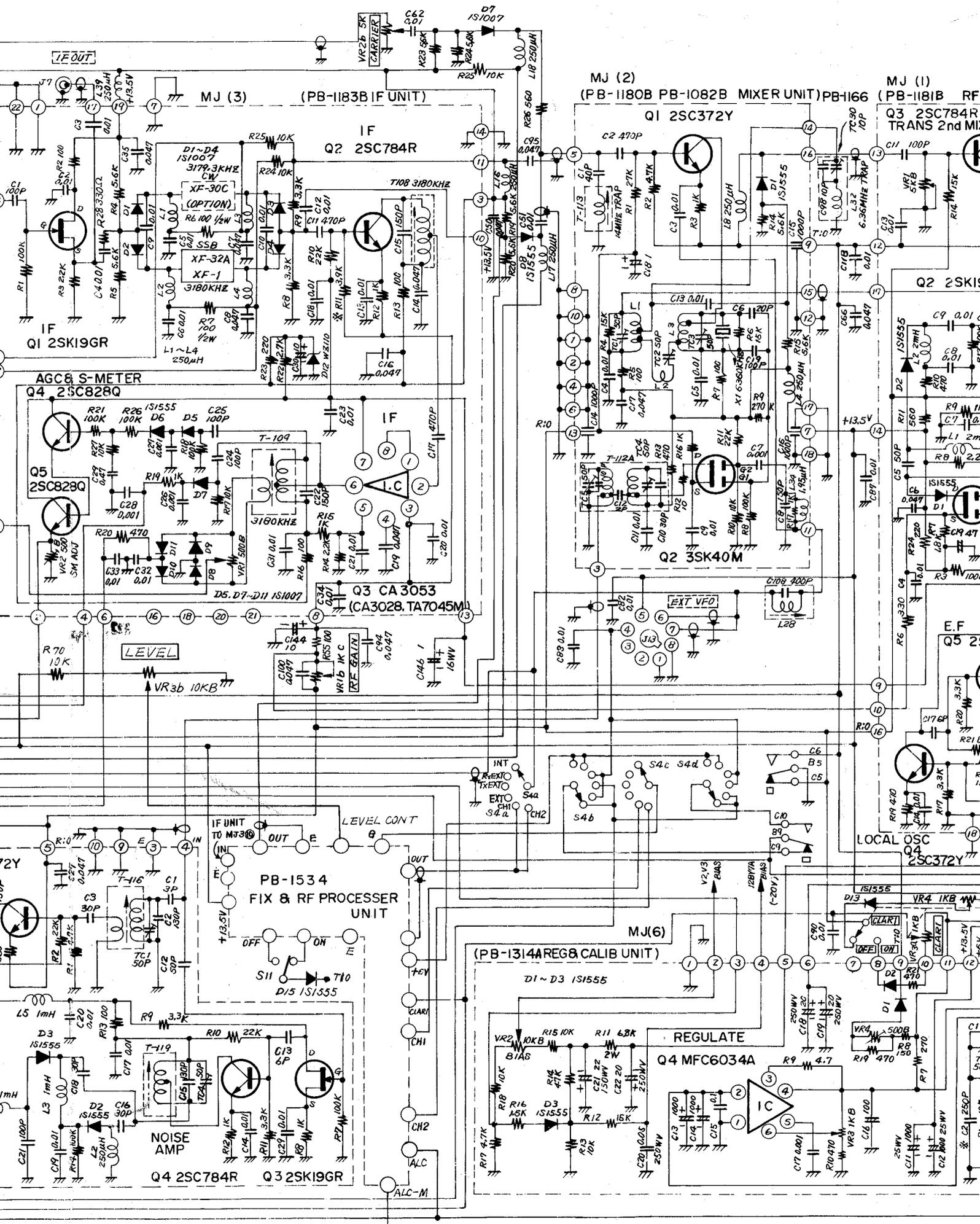
1. ALL RESISTORS ARE IN 1/4W UNLESS OTHERWISE NOTED.
2. ALL CAPACITORS ARE IN μ F UNLESS OTHERWISE NOTED.
3. ALL ELECTROLYTIC CAPACITORS ARE 16VW UNLESS OTHERWISE NOTED.
4. * VALUE IS NOMINAL.

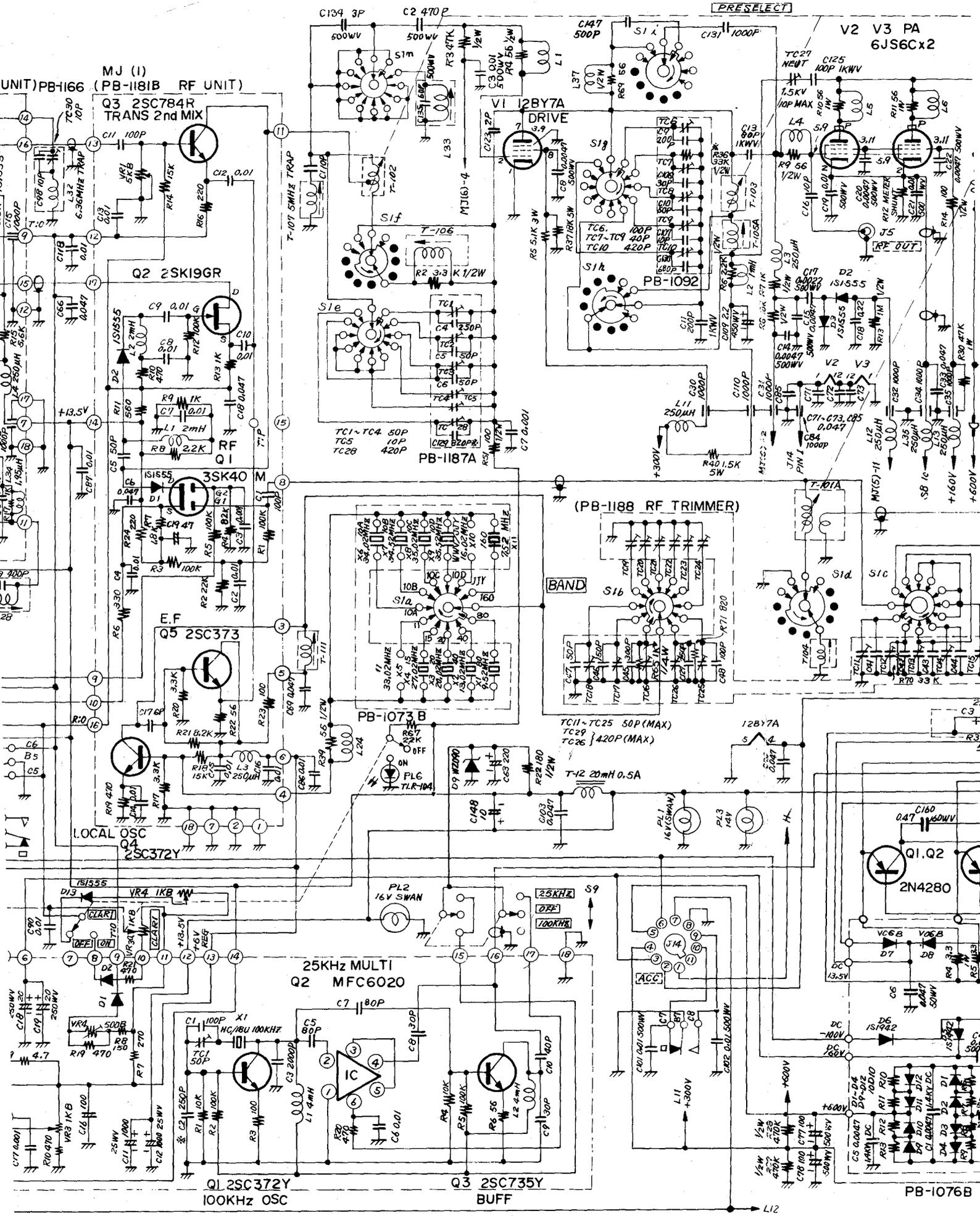
**FT-101E
CIRCUIT DIAGRAM**



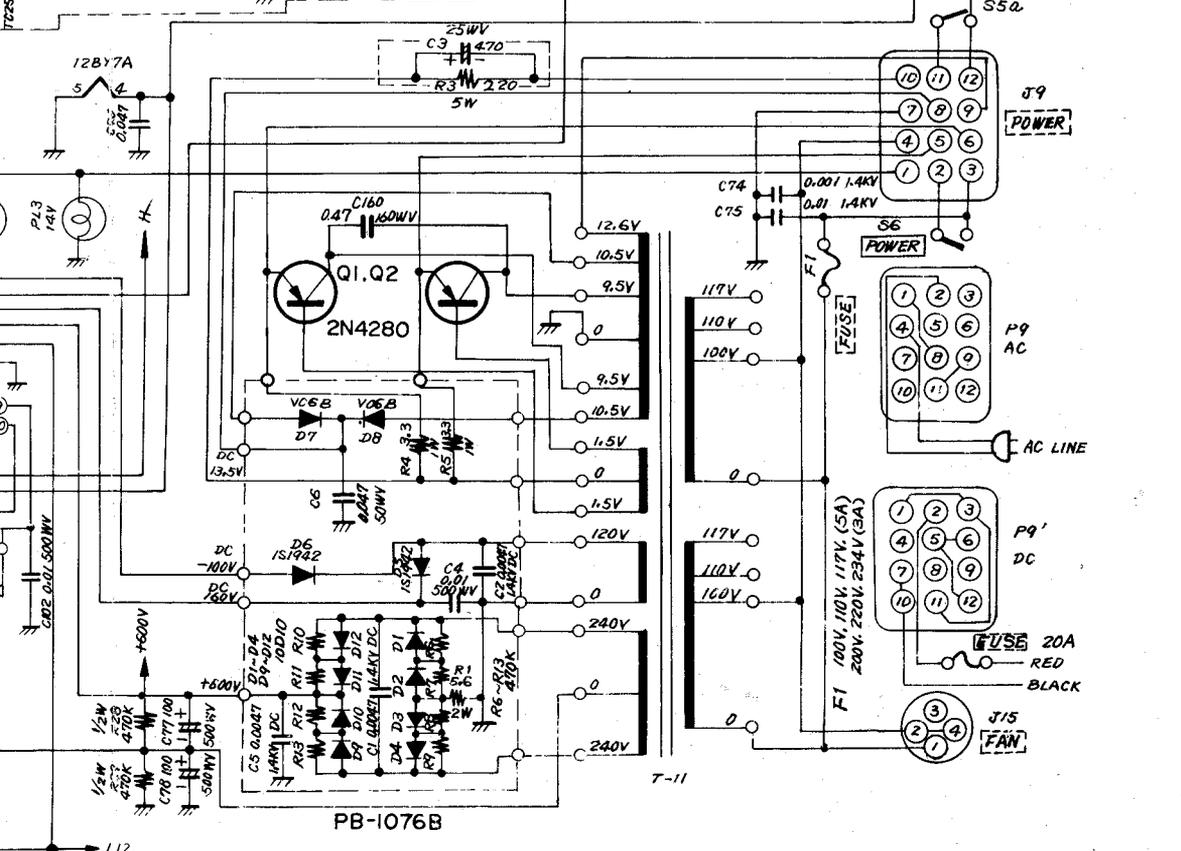
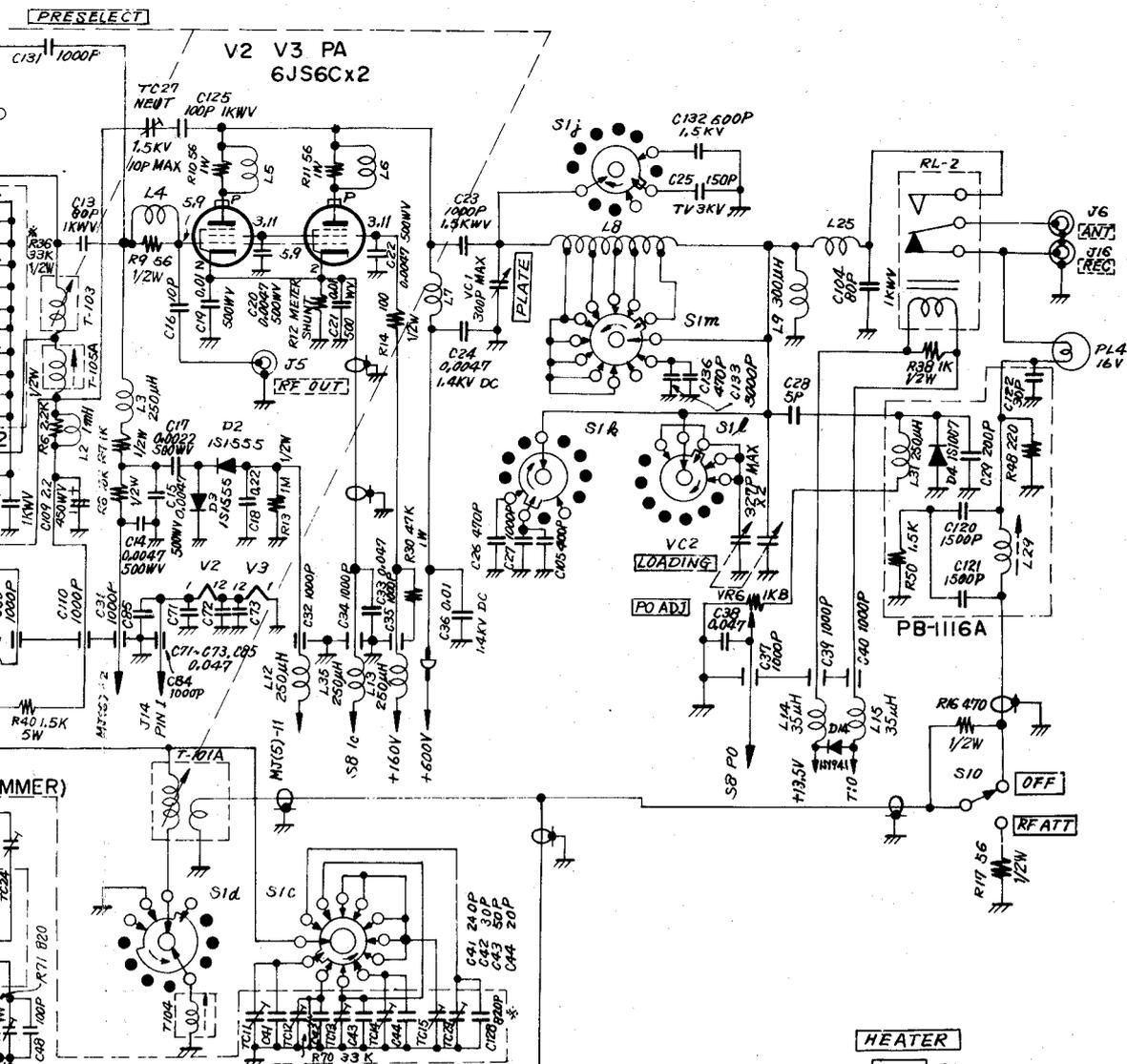
T10







PB-1076B



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 $\frac{1}{4}$ W * VALUE IS NOMINAL

RF UNIT				17	50WV	0.047 μ F
PRINTED CIRCUIT BOARD PB-1181(A~Z)						
Q FET & TRANSISTOR						
4	TR.	2SC372Y		14~16	CERAMIC FEED THRU	
5	TR.	2SC373			500WV	0.001 μ F
3	TR.	2SC784R		18	ELECTROLYTIC 16WV	1 μ F
2	FET	2SK19GR		TC TRIMMER CAPACITOR		
1	FET	3SK40M		1~3	CERAMIC	ECV1ZW50P32 50PF
D DIODE						
1, 2	Si.	1S1555		L INDUCTOR		
R RESISTOR						
22	CARBON FILM	$\frac{1}{4}$ W	56 Ω	1		BPF-A
23		$\frac{1}{4}$ W	100 Ω	2		BPF-B
16, 24		$\frac{1}{4}$ W	220 Ω	3		BPF-C
6		$\frac{1}{4}$ W	330 Ω	34		RF CHOKE 1.95 μ H
10, 19		$\frac{1}{4}$ W	470 Ω	4, 8		RF CHOKE 250 μ H
11		$\frac{1}{4}$ W	560 Ω	T TRANSFORMER & INDUCTOR		
9, 13		$\frac{1}{4}$ W	1K Ω	112A	IF TRANSFORMER	
7		$\frac{1}{4}$ W	1.8K Ω	113	TRAP COIL	
8		$\frac{1}{4}$ W	2.2K Ω	X CRYSTAL		
17, 20		$\frac{1}{4}$ W	3.3K Ω	1	HC-18/U	6360KHz
21		$\frac{1}{4}$ W	8.2K Ω	IF UNIT		
14, 18		$\frac{1}{4}$ W	15K Ω	PRINTED CIRCUIT BOARD PB-1183(A~Z)		
2		$\frac{1}{4}$ W	22K Ω	Q FET, IC & TRANSISTOR		
4		$\frac{1}{4}$ W	82K Ω	2	TR.	2SC784R
1, 3, 5, 12		$\frac{1}{4}$ W	100K Ω	4, 5	TR.	2SC828Q
VR VARIABLE RESISTOR						
1	TR-11R		5K Ω B	3	1C	TA7045M
C CAPACITOR						
17	DIPPED MICA	50WV	6PF	1	FET	2SK19GR
5		50WV	50PF	D DIODE		
1, 11		50WV	100PF	1~5, 7~11	Ge.	1S1007
3	CERAMIC DISC	50WV	0.001 μ F	6	Si.	1S1555
2, 4, 7~10, 12~16,		50WV	0.01 μ F	12	Zener	WZ-110
6, 18		50WV	0.047 μ F	R RESISTOR		
19	ELECTROLYTIC	16WV	47 μ F	2, 13, 16	CARBON FILM	$\frac{1}{4}$ W 100 Ω
L INDUCTOR						
1, 2	RF CHOKE		1mH	23		$\frac{1}{4}$ W 220 Ω
3	RF CHOKE		250 μ H	28		$\frac{1}{4}$ W 330 Ω
MIXER UNIT						
PRINTED CIRCUIT BOARD PB-1082(A~Z)						
PB-1180(A~Z)						
Q FET & TRANSISTOR						
1	TR.	2SC372Y		20		$\frac{1}{4}$ W 470 Ω
2	FET	3SK40M		12, 15, 19		$\frac{1}{4}$ W 1K Ω
D DIODE						
1	Si.	1S1555		3, 14		$\frac{1}{4}$ W 2.2K Ω
R RESISTOR						
12	CARBON FILM	$\frac{1}{4}$ W	10 Ω	22		$\frac{1}{4}$ W 2.7K Ω
5, 7		$\frac{1}{4}$ W	100 Ω	8, 9		$\frac{1}{4}$ W 3.3K Ω
13		$\frac{1}{4}$ W	470 Ω	11		$\frac{1}{4}$ W 3.9K Ω
3, 16, 17		$\frac{1}{4}$ W	1K Ω	4, 5		$\frac{1}{4}$ W 5.6K Ω
2		$\frac{1}{4}$ W	4.7K Ω	17, 24, 25, 27		$\frac{1}{4}$ W 10K Ω
14, 15		$\frac{1}{4}$ W	5.6K Ω	10		$\frac{1}{4}$ W 27K Ω
10		$\frac{1}{4}$ W	10K Ω	1, 18, 21, 26		$\frac{1}{4}$ W 100K Ω
4, 6		$\frac{1}{4}$ W	15K Ω	6, 7	CARBON COMPOSITION	$\frac{1}{2}$ W 100 Ω
11		$\frac{1}{4}$ W	22K Ω	VR VARIABLE RESISTOR		
1		$\frac{1}{4}$ W	27K Ω	1	TR12R	500 Ω B
8		$\frac{1}{4}$ W	100K Ω	2	TR11R	500 Ω B
9		$\frac{1}{4}$ W	220K Ω	C CAPACITOR		
C CAPACITOR						
6, 19	DIPPED MIBA	50WV	20PF	1, 24, 25	DIPPED MICA	50WV 100PF
1		50WV	40PF	15, 22		50WV 150PF
8		50WV	150PF	11, 17		50WV 470PF
2		50WV	470PF	26~28	CERAMIC DISC	50WV 0.001 μ F
7	CERAMIC DISC	50WV	0.001 μ F	2~6, 9, 10, 12, 13, 18, 20,		50WV 0.01 μ F
L INDUCTOR						
1~4				21, 23, 31~34		
T TRANSFORMER & INDUCTOR						
108				7, 8, 14, 16, 19, 35	50WV	0.047 μ F
109				29	PLASTIC FILM	50WV 0.47 μ F
XF CRYSTAL FILTER						
IF TRANSFORMER(DETECTOR)						

1	XF-32A	SSB		R	RESISTOR		
2	XF-30C	CW(OPTION)		18	CARBON FILM	1/4 W	100 Ω
AF UNIT				1, 3		1/4 W	150 Ω
PRINTED CIRCUIT BOARD PB1315(A~Z)				19		1/4 W	180 Ω
Q	FET, IC & TRANSISTOR			2, 21, 30		1/4 W	470 Ω
2, 3	TR.	2SC372Y		9~11, 14, 24, 28		1/4 W	1KΩ
6, 7	TR.	2SC373		20		1/4 W	1.5KΩ
9	TR.	2SC1000GR		6, 8		1/4 W	2.2KΩ
1	FET.	2SK19GR		12, 15, 16, 22, 25, 26, 29		1/4 W	4.7KΩ
5	FET.	2SK19Y		32		1/4 W	10KΩ
8	IC	AN214		33		1/4 W	15KΩ
4	IC	TA-7042M		13, 17, 23, 27		1/4 W	22KΩ
				7		1/4 W	33KΩ
				4		1/4 W	100KΩ
D	DIODE			VR VARIABLE RESISTOR			
1, 2, 3, 4	1S1555			1	TR11R		500 ΩB
5	WZ-090			2	TR11R		5KΩB
R	RESISTOR			C CAPACITOR			
13, 14	CARBON FILM	1/4 W	100 Ω	20, 28, 30	DIPPED MICA	50WV	30PF
53		1/4 W	120 Ω	19, 27, 32		50WV	40PF
41		1/4 W	220 Ω	38		50WV	50PF
12		1/4 W	330 Ω	37		50WV	82PF
16, 17, 33		1/4 W	470 Ω	5, 10,		50WV	100PF
45		1/4 W	560 Ω	4		50WV	150PF
27		1/4 W	680 Ω	21		50WV	300PF
5, 8, 15, 45, 49		1/4 W	1KΩ	23		50WV	820PF
21		1/4 W	1.5KΩ	36		50WV	1000PF
20, 28, 34		1/4 W	2.2KΩ	31	CERAMIC DISC	50WV	0.001μF
6		1/4 W	3.3KΩ	2, 8, 9, 13, 17, 18, 24,		50WV	0.01μF
1, 3, 14, 29~31, 38, 39, 40		1/4 W	4.7KΩ	26, 29, 33			
4, 48		1/4 W	5.6KΩ	6, 11, 22, 25, 34		50WV	0.047μF
9, 10, 35		1/4 W	10KΩ	12	PLASTIC FILM	50WV	0.22μF
51,		1/4 W	12KΩ	15	ELECTROLYTIC	16WV	100μF
11, 18		1/4 W	15KΩ	TC TRIMMER CAPACITOR			
7, 52		1/4 W	22KΩ	2~4	CERAMIC	ECV1ZW20P40	20PF
43, 47		1/4 W	27KΩ	1, 5, 6		ECV1ZW50P40	50PF
32, 42		1/4 W	33KΩ	L INDUCTOR			
50		1/4 W	39KΩ	5		RF CHOKE	10μH
2, 36, 37, 46		1/4 W	47KΩ	2~4, 6, 7		RF CHOKE	22μH
22		1/4 W	470KΩ	8, 9		RF CHOKE	250μH
23, 24		1/2 W	3.3MΩ	T TRANSFORMER			
25,		1/2 W	5.6MΩ	110		IF TRANSFORMER	
26	THERMISTOR SDT250			X CRYSTAL			
VR VARIABLE RESISTOR				1	HC-6/U	3178.5 kHz(USB)	
3, 4	TR-11R		10KΩB	2	HC-6/U	3181.5 kHz(LSB)	
1, 5	V160KRZ-1		10KΩB	3	HC-6/U	3179.3 kHz(CW/AM)	
2	V160KRZ-1		2MΩB	REG & CALIB UNIT			
C CAPACITOR				PRINTED CIRCUIT BOARD PB-1314(A~Z)			
46	DIPPED MICA	50WV	100PF	Q	TRANSISTOR & IC		
15, 27, 51, 52	MYLAR	50WV	0.001μF	1, 3	TR.	2SC735Y	
47		50WV	0.0047μF	2	IC	MFC-6020	
1, 9, 12, 17, 22, 33, 34		50WV	0.01μF	4	IC	MFC-6030A~4A	
24, 28, 29, 30,		50WV	0.022μF	D DIODE			
3, 25, 26, 39, 48, 50		50WV	0.047μF	1, 2, 3	Si	1S1555	
23, 32, 37, 43, 45		50WV	0.1μF	R RESISTOR			
5, 6, 7, 10, 14, 21	ELECTROLYTIC	16WV	1μF	3, 6	CARBON FILM	1/4 W	100 Ω
11		16WV	2.2μF	10, 19, 20		1/4 W	470 Ω
2, 16, 19, 20, 31, 36		16WV	10μF	8		1/4 W	560 Ω
8, 35		16WV	22μF	7, 21		1/4 W	680 Ω
40		16WV	33μF	16		1/4 W	1.5KΩ
4, 18, 38, 42, 49		16WV	100μF	17		1/4 W	4.7KΩ
13, 41, 44		16WV	220μF	1, 4, 13, 15, 18		1/4 W	10KΩ
MOD & OSC UNIT				2		1/4 W	15KΩ
PRINTED CIRCUIT BOARD PB-1184(A~Z)				14		1/4 W	47KΩ
Q	FET & TRANSISTOR			2, 5		1/4 W	100KΩ
2, 3, 5, 6	TR.	2SC372Y		9	CARBON COMPOSITION	1/2 W	4.7 Ω
4	TR.	2SC828P		11		2W	6.8KΩ
1	FET.	2SK19Y		D DIODE			
D DIODE				1~4	Ge.	1S1007	

VR	VARIABLE RESISTOR			T	TRANSFORMER		
4	TR11R		500ΩB	116~119	IF TRANSFORMER R12-4129		
3	TR11R		1KΩB				
2	VI60KRZ-1		10KΩB	FIX/RF PROCESS UNIT			
				PRINTED CIRCUIT BOARD PB-1534			
C	CAPACITOR			Q	IC, FET & TRANSISTOR		
7~9	DIPPED MICA	50WV	30PF	2	IC	TA7060P	
5, 10		50WV	40PF	1, 3, 4, 6, 7	FET	2SK19GR	
1		50WV	100PF	5	TR	2SC372Y	
2		50WV	250PF				
3		50WV	2000PF	D	DIODE		
4, 6	CERAMIC DISC	50WV	0.01μF	1	Si	1S1555	
17	PLASTIC FILM	50WV	0.001μF	2	Varactor	1S2236	
15		50WV	0.1μF				
20		250WV	0.047μF	XF	CRYSTAL FILTER		
13, 14	DLECTROLYTIC	16WV	1000μF	1	XF-30A		
16		16WV	100μF				
11, 12		25WV	1000μF	XS	CRYSTAL SOCKET		
21		150WV	22μF	1	S-14	2P	
18, 19, 22		250WV	22μF				
				R	RESISTOR		
TC	TRIMMER CAPACITOR			23	CARBON FILM	¼W	56Ω
1	CERAMIC	ECV1ZW50P40	50PF	2, 3, 5, 10, 15, 20, 24	¼W	100Ω	
				11	¼W	470Ω	
L	INDUCTOR			7, 9	¼W	1KΩ	
1, 2	RF CHOKE		4mH	6, 16, 19	¼W	2.2KΩ	
				1, 4	¼W	3.3KΩ	
X	CRYSTAL			8, 12, 14, 17	¼W	10KΩ	
1	HC-13/U		100 kHz	13, 18, 21, 22	¼W	100KΩ	
NB UNIT				VR	POTENTIOMETER		
PRINTED CIRCUIT BOARD PB-1292(A~Z)				1	V10K8-1-2	500B	
Q	FET & TRANSISTOR			2	V10K8-1-2	5KB	
1, 6	TR.	2SC372Y					
4	TR.	2SC784R					
2, 3, 5	FET	2SK19GR					
D	DIODE			C	CAPACITOR		
1~3	Si	1S1555		26	DIPPED MICA	50WV	20PF
4	Zener	WZ090		29		50WV	51PF
				4	CERAMIC DICS	50WV	20PF(CH)
				19		50WV	27PF(CH)
				9, 15		50WV	100PF(CH)
				1~3, 5~8, 10~14		50WV	0.01μF
R	RESISTOR			16~18, 20, 22~25, 27, 28		50WV	0.047μF
4, 13	CARBON FILM	¼W	100Ω	21		50WV	0.047μF
16		¼W	330Ω				
3		¼W	560Ω	TC	TRIMMER CAPACITOR		
6, 8, 12, 19		¼W	1KΩ	1, 2	ECV-1ZW20P32	20PF	
18		¼W	1.5KΩ				
15		¼W	2.2KΩ	T	TRANSFORMER		
9, 11, 21, 22		¼W	3.3KΩ	1~3	R 12-4424		
1		¼W	4.7KΩ				
23		¼W	15KΩ	L	INDUCTOR		
2, 10		¼W	22KΩ	1	RFC	250μH	
5, 7, 14, 17, 20		¼W	100KΩ	2	RFC	270μH	
				3	FIX OUT	#00054	
VR	VARIABLE RESISTOR			VFO UNIT			
1	TR11R		10KΩB	PRINTED CIRCUIT BOARD PB-1056(A~Z)			
C	CAPACITOR			Q	FET & TRANSISTOR		
1		50WV	3PF	3	TR.	2SC372Y	
13		50WV	6PF	1, 2	FET	2SK19GR	
3, 9, 16, 18		50WV	30PF				
12		50WV	50PF	D	DIODE		
11, 21, 22		50WV	100PF	1	Varactor	1S2236	
2, 4, 8, 15		50WV	130PF				
5, 10, 14, 17, 19, 20, 24, 25, 28, 29	CERAMIC DISC	50WV	0.01μF	R	RESISTOR		
6, 26, 27		50WV	0.047μF	4, 7	CARBON FILM	¼W	100Ω
7, 23	ELECTROLYTIC	16WV	1μF	10		¼W	270Ω
				3, 6		¼W	330Ω
				8		¼W	8.2KΩ
TC	TRIMMER CAPACITOR			1		¼W	10KΩ
1~4	CERAMIC	ECV1ZW50P40	50PF	9		¼W	22KΩ
				2, 5		¼W	100KΩ
L	INDUCTOR			11(L5) CARBON COMPOSITION ½W 1KΩ			
2	RF CHOKE		250μH				
1, 3~5	RF CHOKE		1mH	C	CAPACITOR		

TC	TRIMMER CAPACITOR			MJ	MULTI JACK	
5	CERAMIC	ECV1ZW10P32	10PF	1, 2, 6	3305-018-011	18P
1~4, 11~25		ECV1ZW50P32	50PF	3, 4	3305-022-011	22P
7, 8, 9		MICA B-1PY	40PF	5	3305-014-011	14P
6, 31		B-2PY	100PF	7	3305-010-011	10P
10, 26, 28, 29		B-7P	420PF			
27	AIR	TSN-150C	10PF	PL	LAMP	
30	PLASTIC FILM	CTY12B	10PF	1, 2, 4	16V 0.15A	
				3	14V 40mA	
				5, 6	LED	TLR-104
L	INDUCTOR			PLH	LAMP HOLDER	
12, 13, 16~18, 20, 21, 26, 31, 35	RF CHOKE		250 μ H	1, 2	#001011	
3, 11, 36	RF CHOKE(TV-245)		250 μ H	3	B-1	
9	RF CHOKE(PLATE)		300 μ H			
7	RF CHOKE(PLATE)		500 μ H			
2	RF CHOKE		1mH	J	RECEPTACLE & JACK	
24	P.S. $\frac{1}{2}$ W56 Ω 0.3 ϕ 10TS			1, 4, 5, 7, 8, 11, 16~18	CN-7017	
1, 4, 37	P.S. $\frac{1}{2}$ W56 Ω 0.6 ϕ 4TS			2	S-G7616(KEY)	
5, 6	P.S. 1W56 Ω 1.0 ϕ 4TS			10	S-G7814(PHONE)	
8	TANK COIL			3	FM-144(MIC)	
22	TRAP COIL			6	JSO-239(ANT)	
28	TRAP COIL			9	450AB12M(POWER)	
29	TRAP COIL			12	P2240(SP)	
32	TRAP COIL			13	S-B0611(EXT. VFO)	
33	TUNING COIL			14	SA602B(ACC)	
25	L. P. FILTER COIL			15	S-16303(FAN)	
14, 15	RF CHOKE		35 μ H			
T	TRANSFORMER & INDUCTOR			M	METER	
101A	ANT COIL A			1	MK-45	
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	OSC COIL					
115	3.18MHz TRAP COIL					
T	TRANSFORMER & CHOKE COIL					
11	POWER TRANSFORMER					
12	AF CHOKE 20m H 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				
PL	RELAY					
1		AE3171-42				
2		MX2P				
S	SWITCH					
1	ROTARY	RS13-13-11(BAND)				
2	ROTARY	ESRE365R20Z(MODE)				
4	ROTARY	ESRE246R20Z(SELECT)				
6	SEESAW	WD210I(POWER)				
5	SEESAW	WD230I(HEATER)				
3, 10, 11	SLIDE	SLE12201				
7~9	SLIDE	SLE12301				
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			