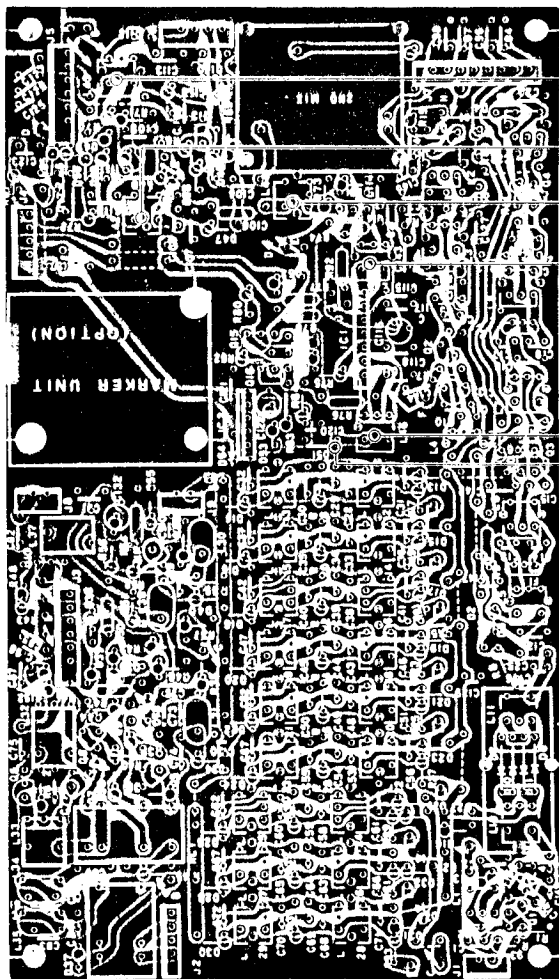


9-3 RECEIVER ADJUSTMENT

Adjustment	Conditions	Unit	Measuring Points	Instrument Reading	Unit	Adjust Points
INSTRUMENTS REQUIRED	(1) STANDARD SIGNAL GENERATOR (SSG) 0.1 ~ 40MHz OUTPUT LEVEL (loaded value) -20dB ~ +100dB (10dB/1V) (2) AC MILLIVOLT METER MEASURING RANGE 10mV ~ 3V IMPEDANCE 8 ohms (3) EXTERNAL SPEAKER					
TOTAL GAIN	1. MODE : SSB • BAND : 14MHz • PREAMP : OFF • P.B.T. : Center • NOTCH : OFF • NB : OFF • SOL : MIN • RF GAIN : MAX • TONE : Fully clockwise • AGC : Fully counter-clockwise (not OFF) • Set the output level of the SSG to -10dBu.		- Connect the SSG to the ANT connector. - Connect the AC millivolt meter and external speaker to the EXT SP jack.	Adjust to maximum AF output.	RF	L42, L43
	2. Set the output level of the SSG to +40 ~ 60dBu.			Adjust the AF GAIN control to get 2.5V AF output.	IF	L8
	3. Turn off the output of the SSG.			Adjust R209 so that the noise level is 30dB down (about 80mV) from 2.5V.	MAIN	L1, L2, L3
CW PREAMP GAIN	1. MODE : USB • Set the output level of the SSG to +40 ~ 60dBu.		- Connect the SSG to the ANT connector. - Connect the AC millivolt meter and external speaker to the EXT SP jack.	Tune to get maximum AF output.	FRONT PANEL	AF GAIN
	2. Keep the condition of 1., and adjust the AF GAIN control to get 1V AF output.				MAIN	R209
	3. MODE : CW • Set the output level of the SSG to +40 ~ 60dBu.			Tune to get 800Hz beat tone and maximum AF output.	FRONT PANEL	Tuning Control
	4. Set the output level of the SSG to +20dBu.			Keep the condition of 3., and adjust R141 to get 1V AF output.	MAIN	R111
S-METER	1. MODE : USB • BAND : 14MHz • PREAMP : OFF • P.B.T. : Center • AGC : Center • Set the output level of the SSG to +20dBu.		S-METER of the set.	S8	MAIN	R127
	2. Set the output level of the SSG to +80dBu.			S9 + 60dB		R128
NOISE BLANKER	3. Repeat adjustments of 1. and 2. several times. Confirm that the meter is full-scaled when the RF GAIN control is turned fully counterclockwise, and does not defect in the FM mode.					
	1. MODE : USB • Apply pulse noise to the ANT connector.	RF	Connect and oscilloscope to D51.	Adjust to get maximum.	RF	L44 ~ L46
	2. When the NB switch is set at the NOR position, the noise blanker should not work for wide noises (pulse width: about 5 milliseconds). When the NB switch is set at the WIDE position, the noise blanker should work for either narrow noises (pulse width: about 0.4 ~ 0.5 milliseconds) or wide noises. Confirm that the NB amplifiers do not oscillate when the NB LEVEL control is turned fully clockwise.					

RF UNIT



CHECK POINT D51

Noise Blanker Adjust L46

Noise Blanker Adjust L45

Noise Blanker Adjust L44

Total Gain Adjust L42

Total Gain Adjust L43

MAIN UNIT

CW Preamp Gain Adjust R111

Total Gain Adjust L1

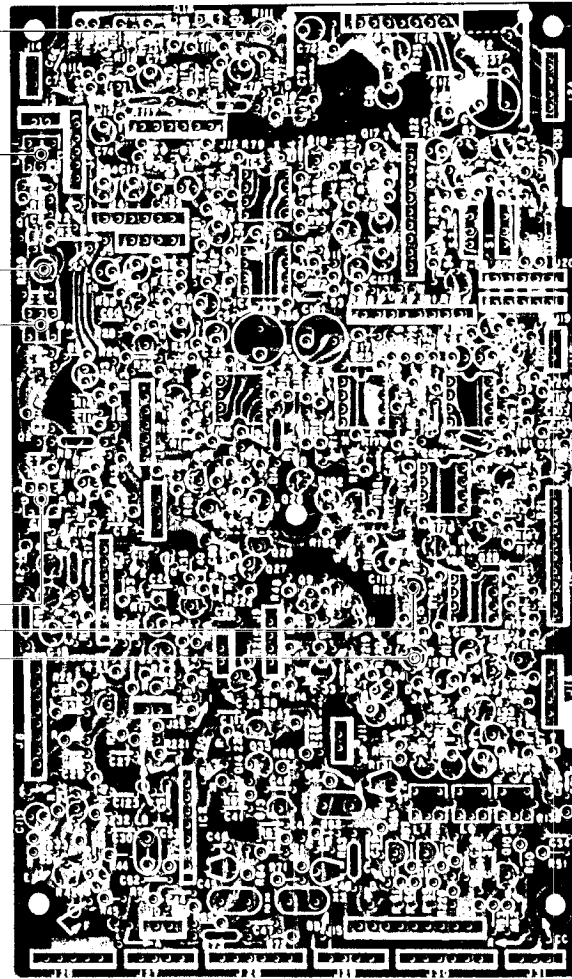
Total Gain Adjust R209

Total Gain Adjust L2

Full Scale Adjust R128

S8 Adjust R127

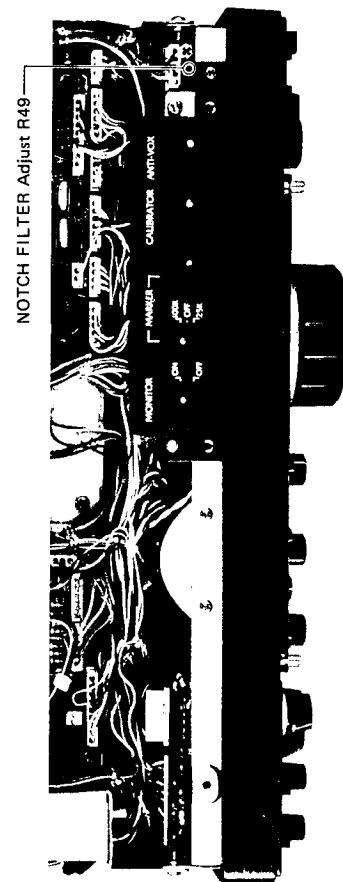
Total Gain Adjust L3



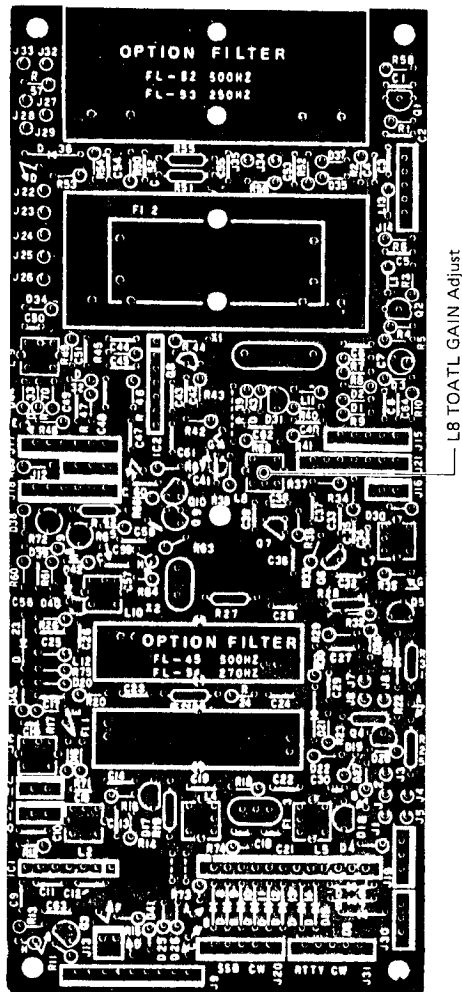
9-3 RECEIVER ADJUSTMENT (Continued)

Adjustment	Conditions	Unit	Measuring Points	Instrument Reading	Unit	Adjust Points
NOTCH FILTER	1. • MODE : USB • BAND : 14MHz • IF/PT/B.T. : IF • IF SHIFT/P.B.T. : • NOTCH : Fully Left • NOTCH OFF • NOTCH FILTER : Fully Left • Set the output level of the SSG to +34dBu.			Tune to make zero-beat.	FRONT PANEL	Tuning Control
	2. • NOTCH : ON		S-METER	Adjust R49 to get minimum meter deflec- tion.	SW-F	R49
	3. • MODE : LSB • IF SHIFT/P.B.T. : CONTROL : Fully Right • NOTCH : OFF • NOTCH FILTER : Fully Right • Set the output level of the SSG to +34dBu.			Tune to make zero-beat.	FRONT PANEL	Tuning Control
	4. • NOTCH : ON		S-METER	Adjust R45 to get minimum meter deflec- tion.	SW-F	R45
5. Repeat adjustment of 1.~4. several times. The notch deep will be more than 25dB.						
SQUELCH	1. • MODE : SSB • RF GAIN : Fully counterclockwise • AGC : OFF • SOL CONTROL : At 10 o'clock position • Turn off the output of the SSG.			Adjust R33 to close the squelch.	VR-A	R33
	2. • Confirm that the squelch will be opened by turning the RF GAIN control clockwise. • The squelch should be closed by turning the control clockwise when a SS + 40dB signal is applied or the RF GAIN control is turned fully counterclockwise. • Confirm that the RECEIVE indicator is lighted when the squelch is opened.					

SW-F UNIT

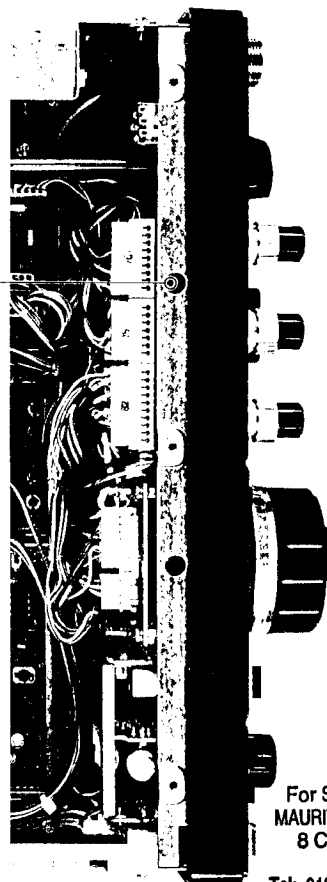


IF UNIT



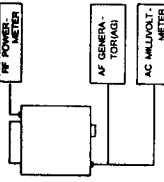
VR-A UNIT

R33 SQUELCH Adjust

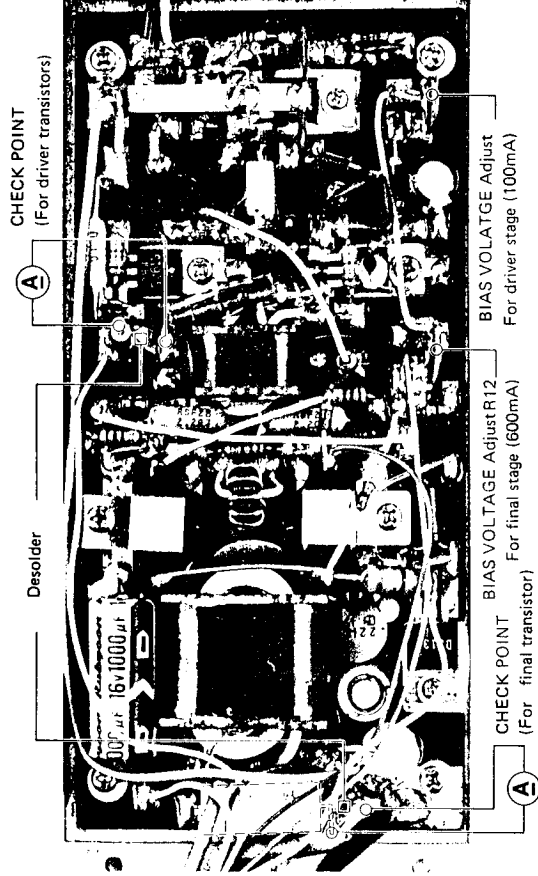


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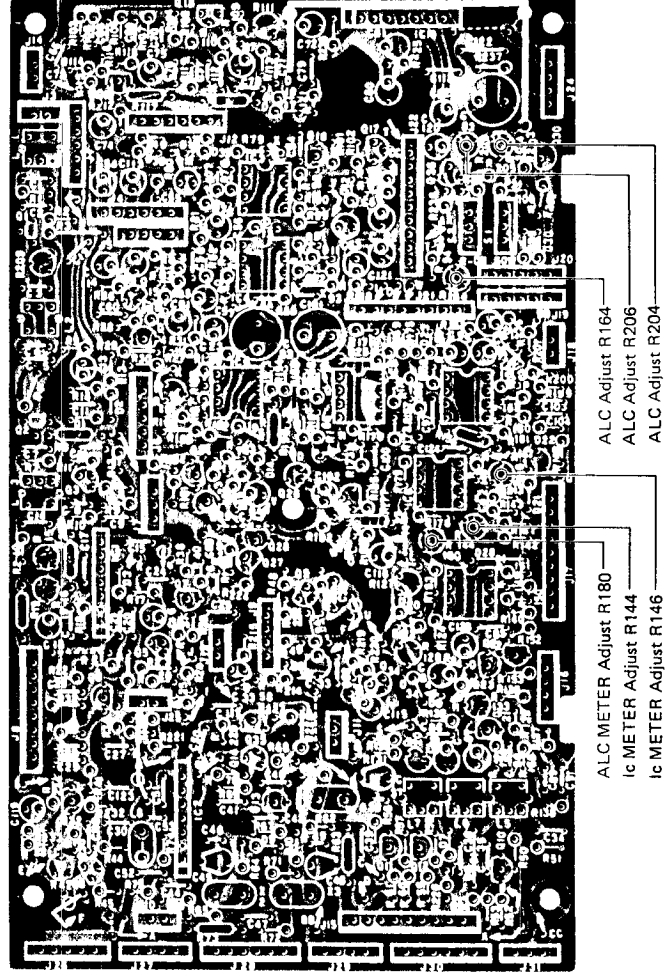
9-4 TRANSMITTER ADJUSTMENT

Adjustment	Conditions	Unit	Measuring Points	Instrument Reading	Unit	Adjust Points
INSTRUMENTS REQUIRED	1. (1) RF POWER METER (TERMINATED TYPE) 20 ~ 200W FREQUENCY RANGE 1.8 ~ 30MHz IMPEDANCE 50 ohms SWR Less than 1.1 (2) AF GENERATOR (AG) FREQUENCY RANGE 200 ~ 1000Hz OUTPUT 300mV EL 0 ~ 300mV (3) AC MILLIVOLTMETER MEASURING RANGE 10mV ~ 3V					
	BIAS VOLTAGE	PA	Desolder at the center of jumper wire with 2 dead cores, and connect a DC ammeter there in series. Desolder D4 side lead of R27, and connect a DC ammeter between the tab and R27.	100mA 600mA	PA	R6 (For driver transistors) R21 (For final transistors)
	ALC		RF POWER METER	100W 5 ~ 10W 50W	MAIN	R206 R164 R204
Ic METER	1. MODE : RTTY BAND : 14MHz COMP : OFF RF POWER : MAX (Fully clockwise)					
	2. MODE : RTTY BAND : 14MHz COMP : OFF RF POWER : MAX (Fully clockwise)					
	3. RF POWER : MAX Set ST on the MAIN unit to "50W" position.					
ALC METER	1. MODE : CW METER SWITCH : Ic Set in TRANSMIT mode and key up.	FRONT PANEL	Ic METER	600mA	MAIN	R144
	2. MODE : RTTY METER SWITCH : Ic Fully clockwise		Connect a DC ammeter to the power cable in series.	Adjust to total current minus 3A.		R146
ALC METER	1. MODE : USB BAND : 14MHz COMP : ON RF POWER : MAX (Fully clockwise) MIC GAIN : MAX (Fully clockwise) METER SWITCH : ALC Apply 1.5KHz/100 ~ 300mV signal from the AG.	FRONT PANEL	ALC METER	ALC ZONE Full level (Center of the meter scale)	MAIN	R180
	2. COMP : OFF			Meter deflection will be overscale from the ALC zone.		Confirming

PA UNIT



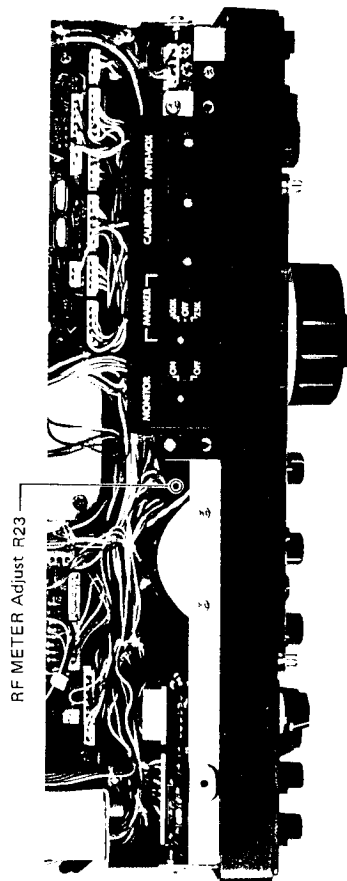
MAIN UNIT



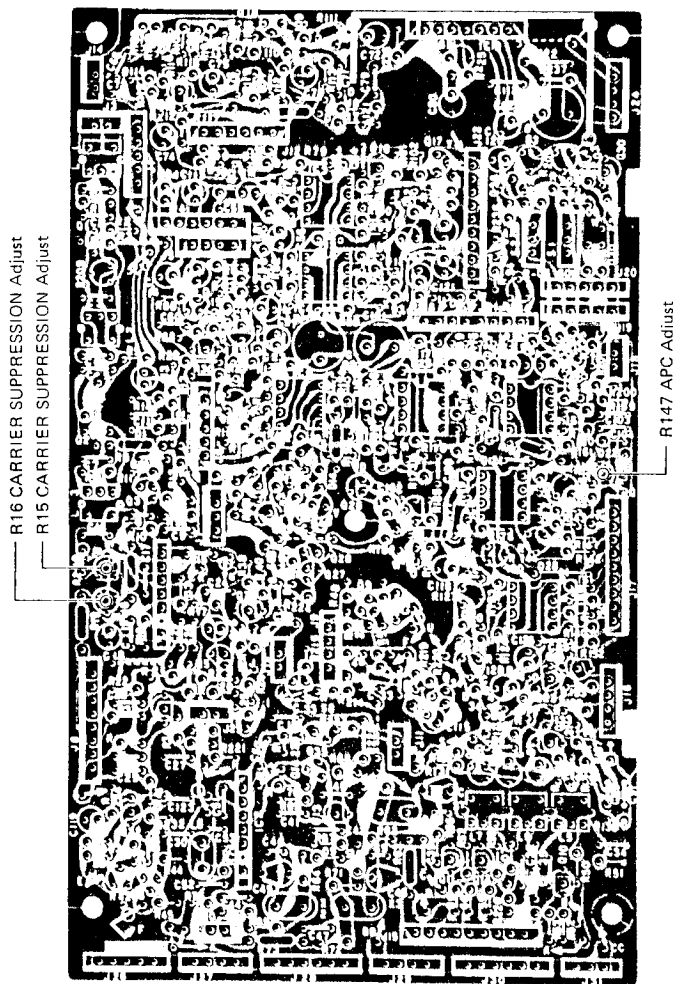
9 - 4 TRANSMITTER ADJUSTMENT (Continued)

Adjustment	Conditions	Unit	Measuring Points	Instrument Reading	Unit	Adjust Points
COMP METER	1. ● MODE : RTTY ● COMP : ON ● METER SWITCH : COMP ● RF POWER : Fully clockwise	FRONT PANEL	S-METER	Meter deflection will be about 20dB on the COMP scale.		Confirming
	2. ● MODE : USB ● Apply 1.5KHz/100 ~ 300mV signal from the AC.			Meter deflection will be over 20dB on the COMP scale.		
RF METER	1. ● MODE : RTTY ● METER SWITCH : RF	FRONT PANEL	Po METER	80%	SW-C	R23
SWR METER	1. ● MODE : RTTY ● RF POWER : Set to get 35 ~ 45W output power. ● METER SWITCH : SET	FRONT PANEL	SWR METER	Adjust the RF POWER control so that the meter points "SET" mark.	FRONT PANEL	RF POWER Control
	2. ● BAND : EACH BAND ● METER SWITCH : SWR			SWR should be less than 1.2 on each band.		Confirming
APC	1. ● MODE : RTTY ● BAND : 14MHz ● RF POWER : Fully clockwise ● COMP : OFF		Read the ammeter provided in the power supply, or connect an ammeter to the power cable in series.	20A	MAIN	R147
	2. ● BAND : EACH BAND ● Set in TRANSMIT mode. ● Set full output power, and do not connect anything to the ANT Connector.			Less than 12A		Confirming
CARRIER POINT	1. ● MODE : USB/LSB ● BAND : 14MHz ● COMP : OFF ● TX TONE CONTROL (MAIN/R42) : MAX ● Full clockwise ● Apply 2.7KHz/100mV signal from the AG then adjust the MIC GAIN control to get 20 ~ 30W output power.		Connect the RF POWER METER to the ANT connector.	Change the operating mode for USB and LSB alternately, and adjust R72 and R59 to get same output power in either mode.	IF	R72
	2. ● COMP : ON ● Apply 2.7KHz/30 ~ 100mV signal from the AG.					R59
CARRIER SUPPRESSION	1. ● MODE : USB/LSB ● BAND : 14MHz ● COM : OFF ● MIC GAIN : MIN		Connect an RF voltmeter or spectrum analyzer to the ANT connector.	Change the operating mode for USB and LSB alternately, and adjust R15 and R16 to get minimum output (less than -50dB).	MAIN	R15 R16
	2. ● COMP : ON			Less than -50dB		Confirming

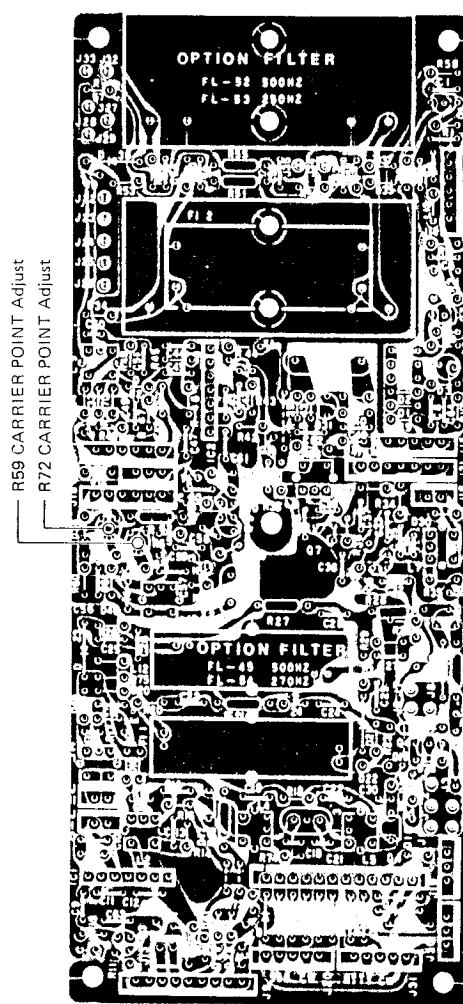
SW-C UNIT



MAIN UNIT

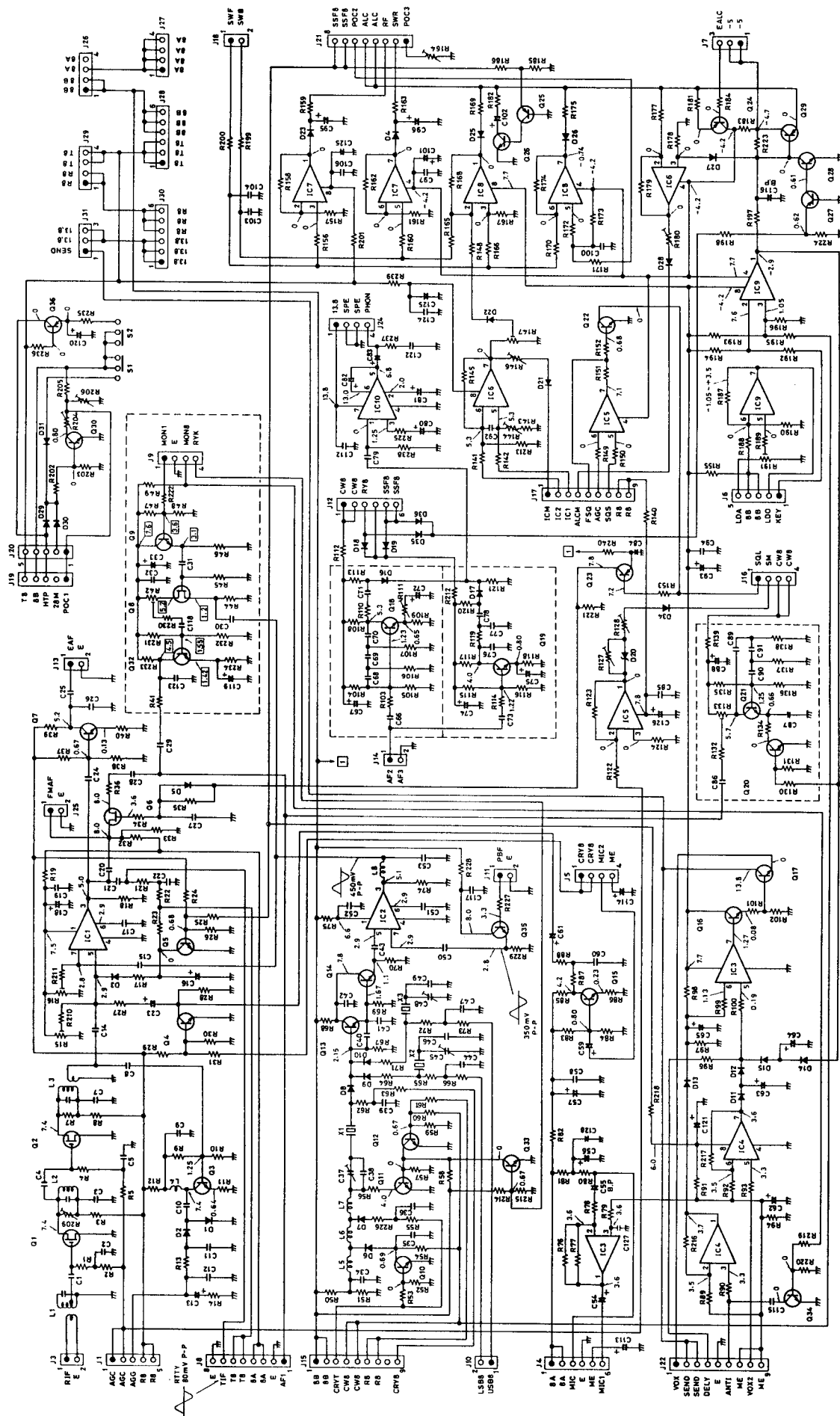


IF UNIT



SECTION 10 VOLTAGE (CIRCUIT) DIAGRAMS

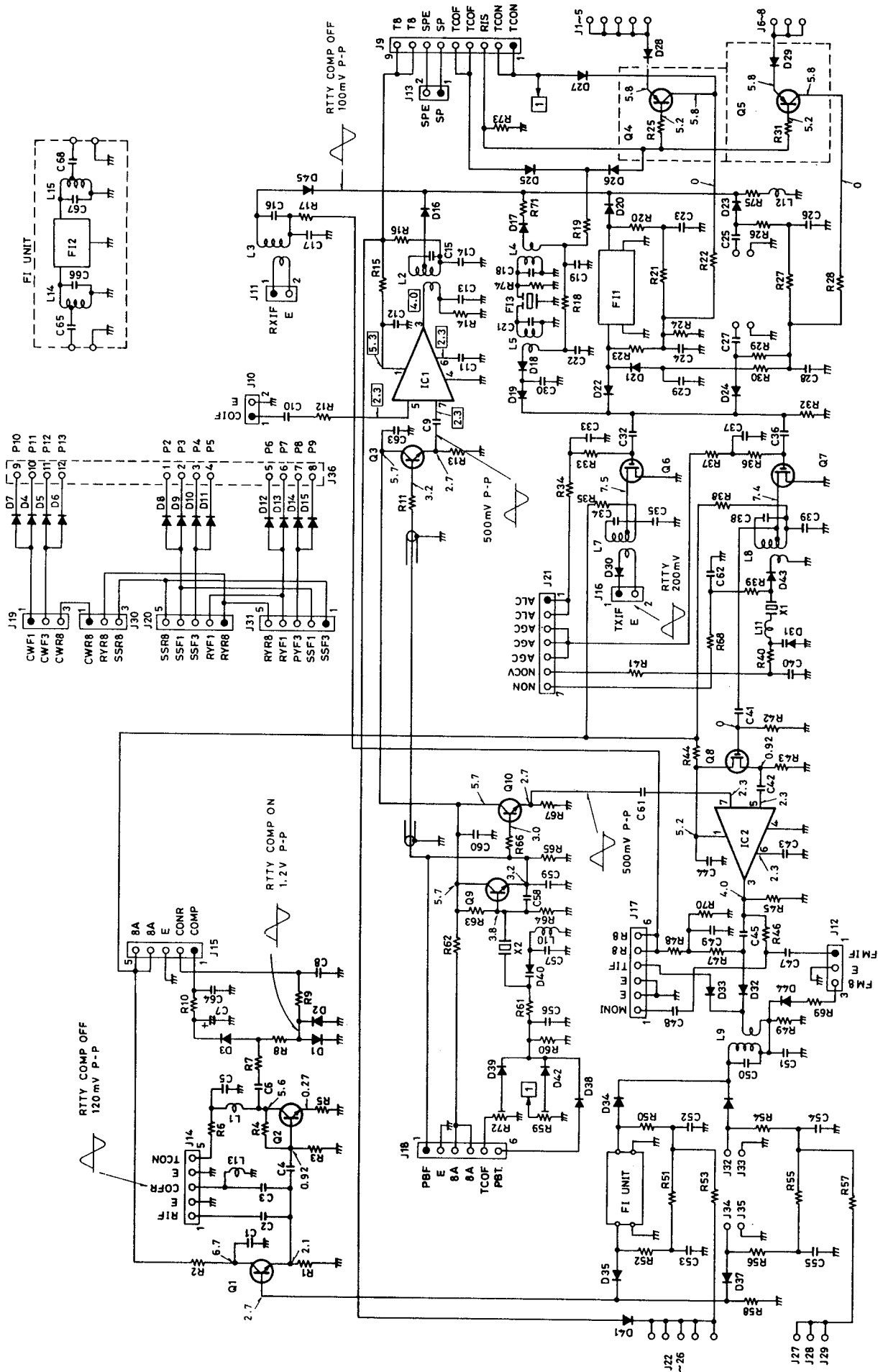
MAIN UNIT CIRCUIT AND VOLTAGE DIAGRAM



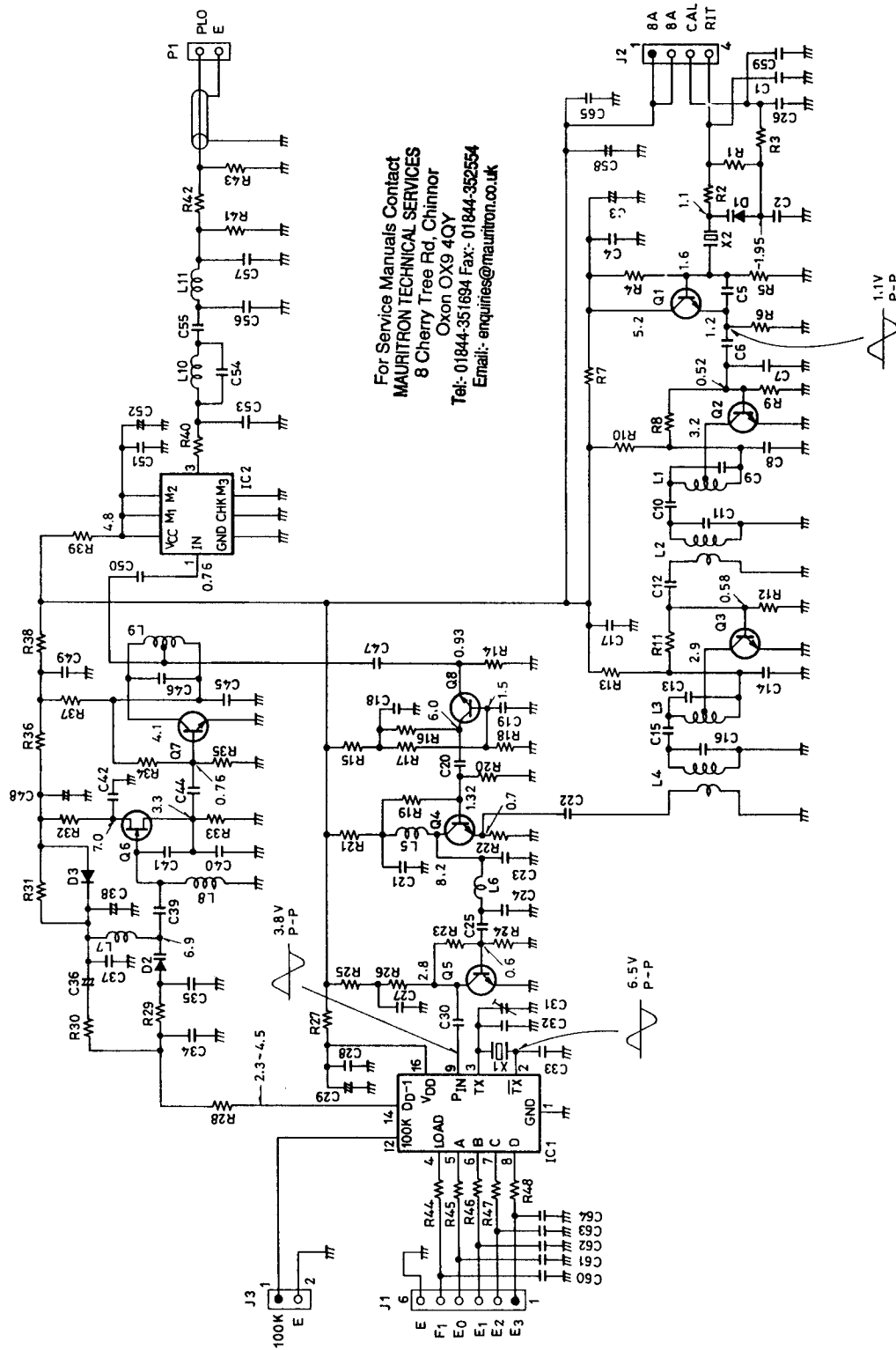
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10-2

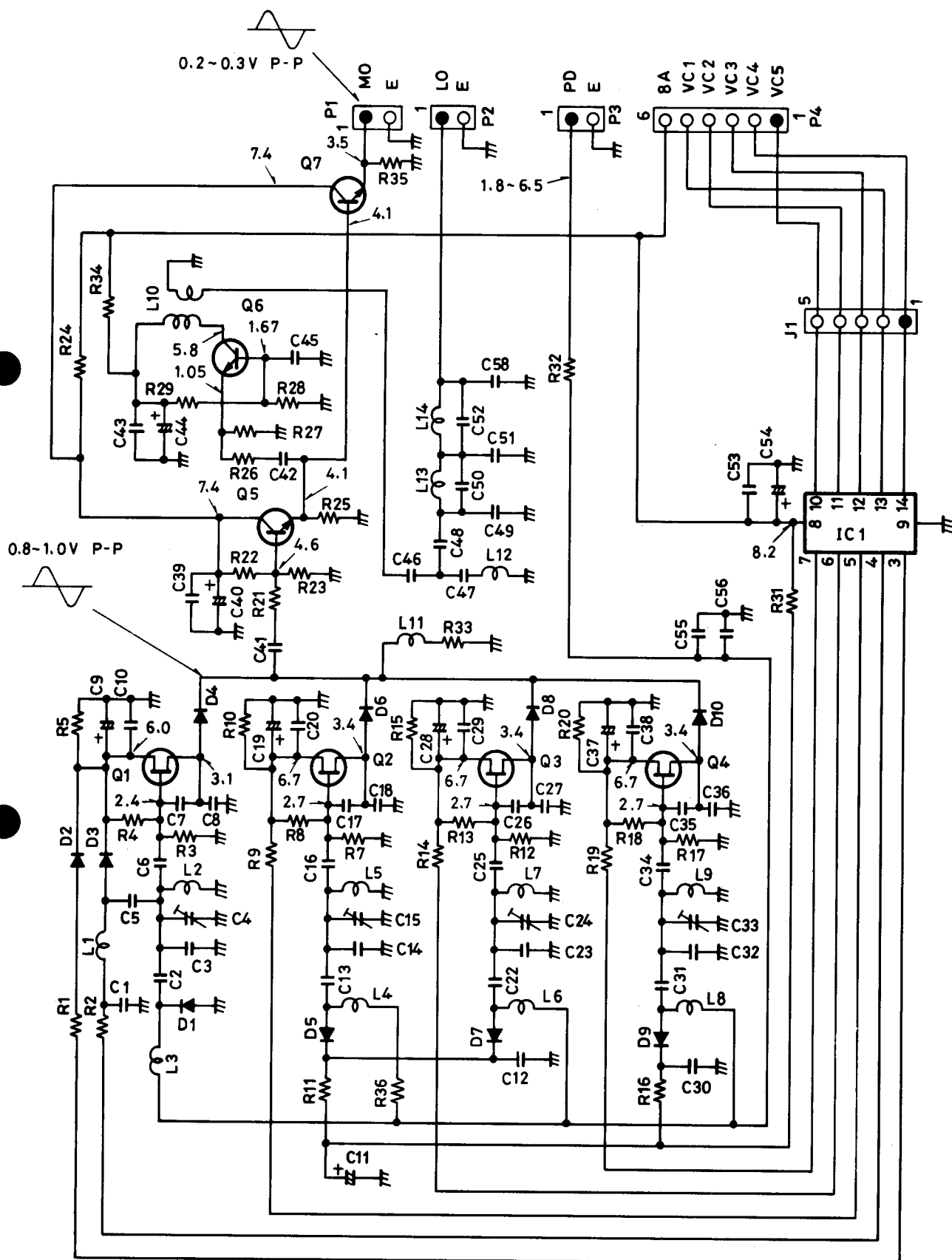
IF UNIT CIRCUIT AND VOLTAGE DIAGRAM



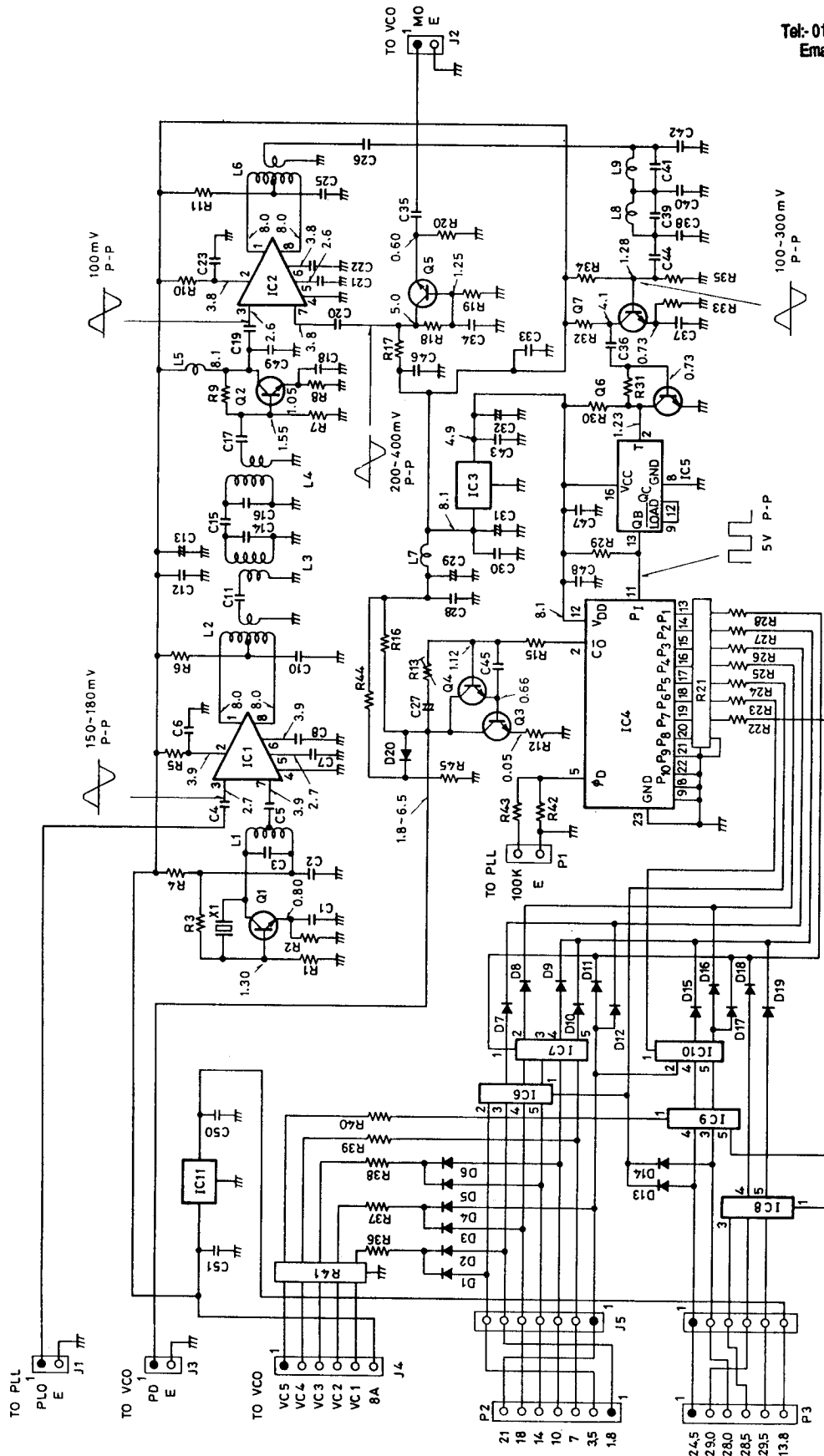
PLL UNIT CIRCUIT AND VOLTAGE DIAGRAM



VCO UNIT CIRCUIT AND VOLTAGE DIAGRAM

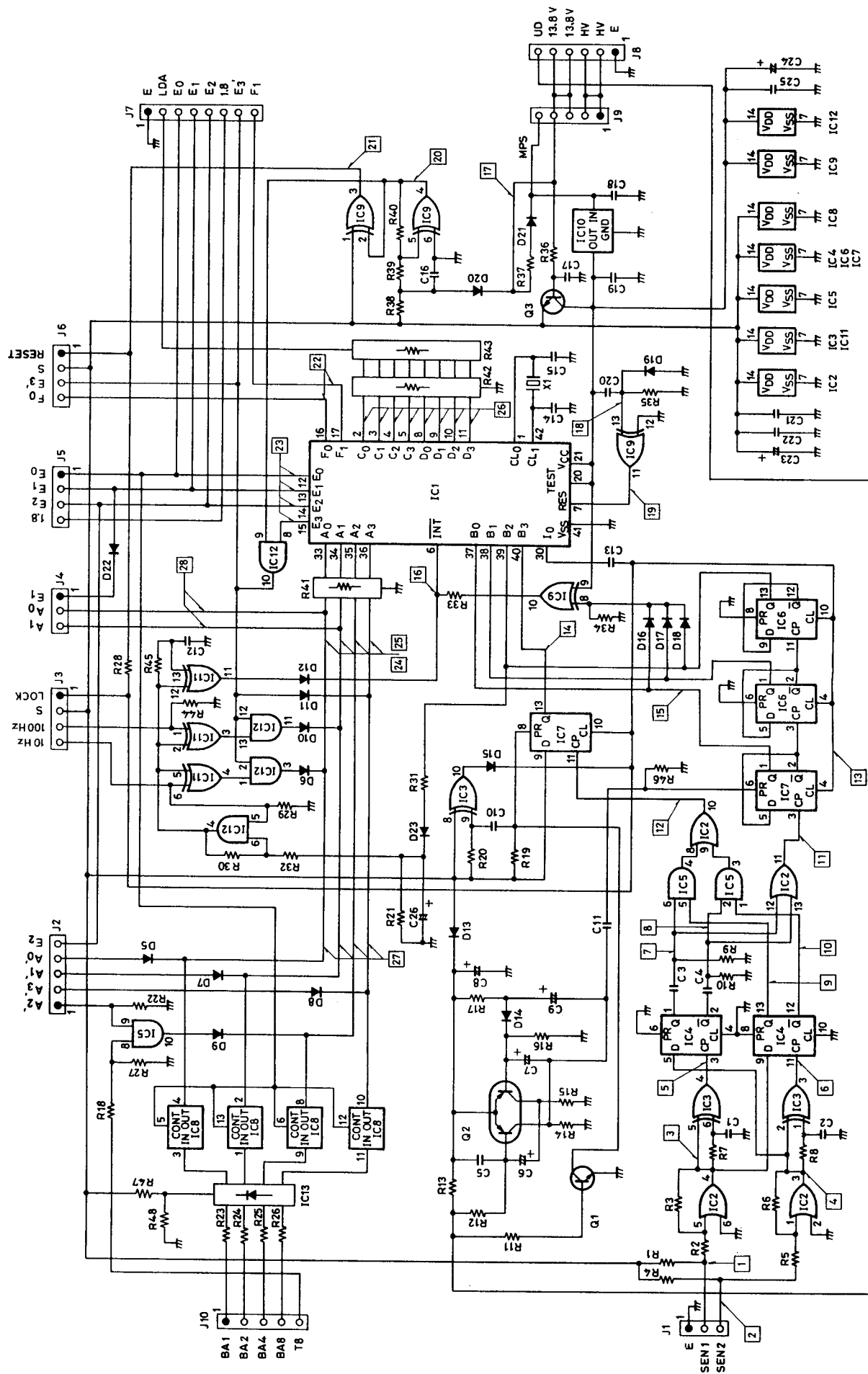


HPL UNIT CIRCUIT AND VOLTAGE DIAGRAM

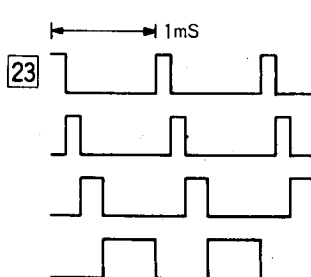
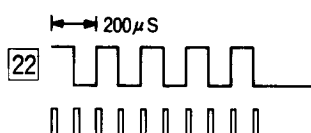
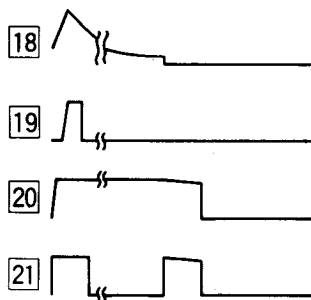
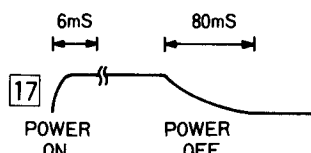
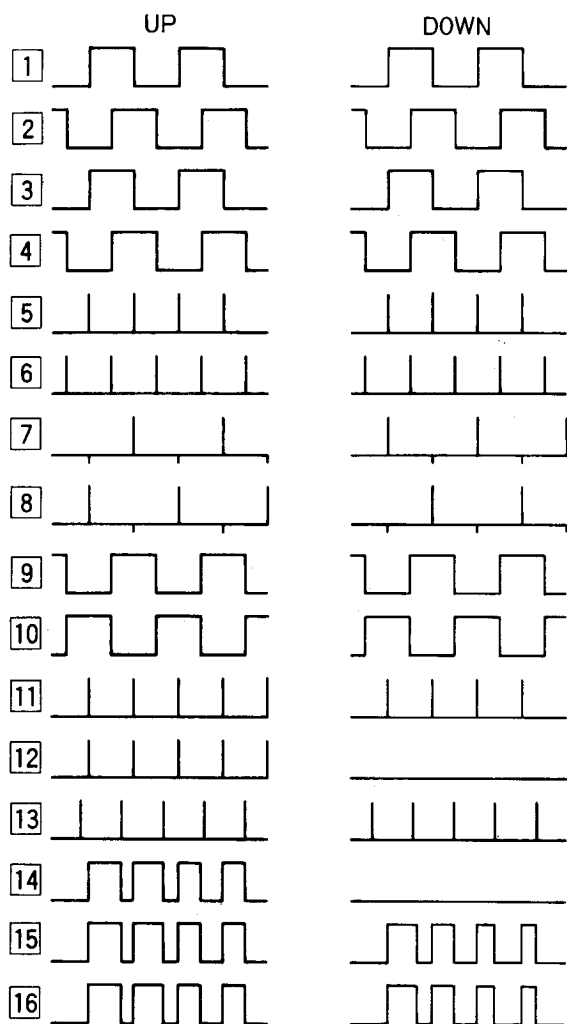


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LOGIC UNIT CIRCUIT AND VOLTAGE DIAGRAM



LOGIC UNIT WAVEFORM CHARTS

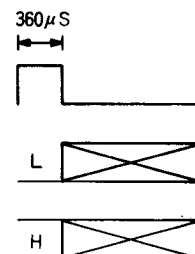


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24 VFO MEMORY

PIN NO.		33	34	35	36
FUNG		A0	A1	A2	A3
VFO	A	L			
	B	H			
MEMORY	OFF		L		
	ON		H		
NOR				L	
SPLIT				H	
WRITE	OFF				L
	ON				H

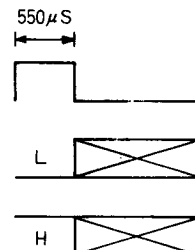
IC1-14(E2) TRIGGER



25 VFO PITCH

PIN ON.		33	34	35	36
FREQ.		A0	A1	A2	A3
VFO	10Hz	H	L	L	H
	100Hz	L	H	L	H
	1KHz	L	L	L	H
POWER	OFF				L
	ON				H

IC1-15(E3) TRIGGER



26 IC1 D/A DATA OUT

100Hz台

PIN NO.		2	3	4	5
FREQ.		C0	C1	C2	C3
0.0KHz	0.0KHz	L	L	L	L
	0.1KHz	H	L	L	L
	0.2KHz	L	H	L	L
	0.3KHz	H	H	L	L
	0.4KHz	L	L	H	L
	0.5KHz	H	L	H	L
	0.6KHz	L	H	H	L
	0.7KHz	H	H	H	L
	0.8KHz	L	L	L	H
	0.9KHz	H	L	L	H

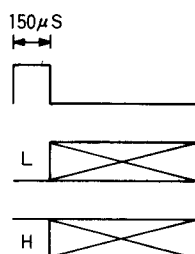
10Hz台

PIN NO.		8	9	10	11
FREQ.		D0	D1	D2	D3
0.00KHz	0.00KHz	L	L	L	L
	0.01KHz	H	L	L	L
	0.02KHz	L	H	L	L
	0.03KHz	H	H	L	L
	0.04KHz	L	L	H	L
	0.05KHz	H	L	H	L
	0.06KHz	L	H	H	L
	0.07KHz	H	H	H	L
	0.08KHz	L	L	L	H
	0.09KHz	H	L	L	H

27 BAND SWITCH

PIN NO.		3	1	8	10
BAND		4	2	9	11
1.8MHz	1.8MHz	L	H	L	L
	3.5MHz	L	H	L	L
	7MHz	H	H	L	L
	10MHz	L	L	H	L
	14MHz	H	L	H	L
	18MHz	L	H	H	L
	21MHz	H	H	H	L
	24.5MHz	L	L	L	H
	28.0MHz	H	L	L	H
	28.5MHz	L	H	L	H
29.0MHz	29.0MHz	H	H	L	H
	29.5MHz	L	L	H	H

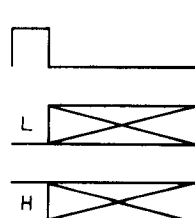
IC1-12(E0) TRIGGER



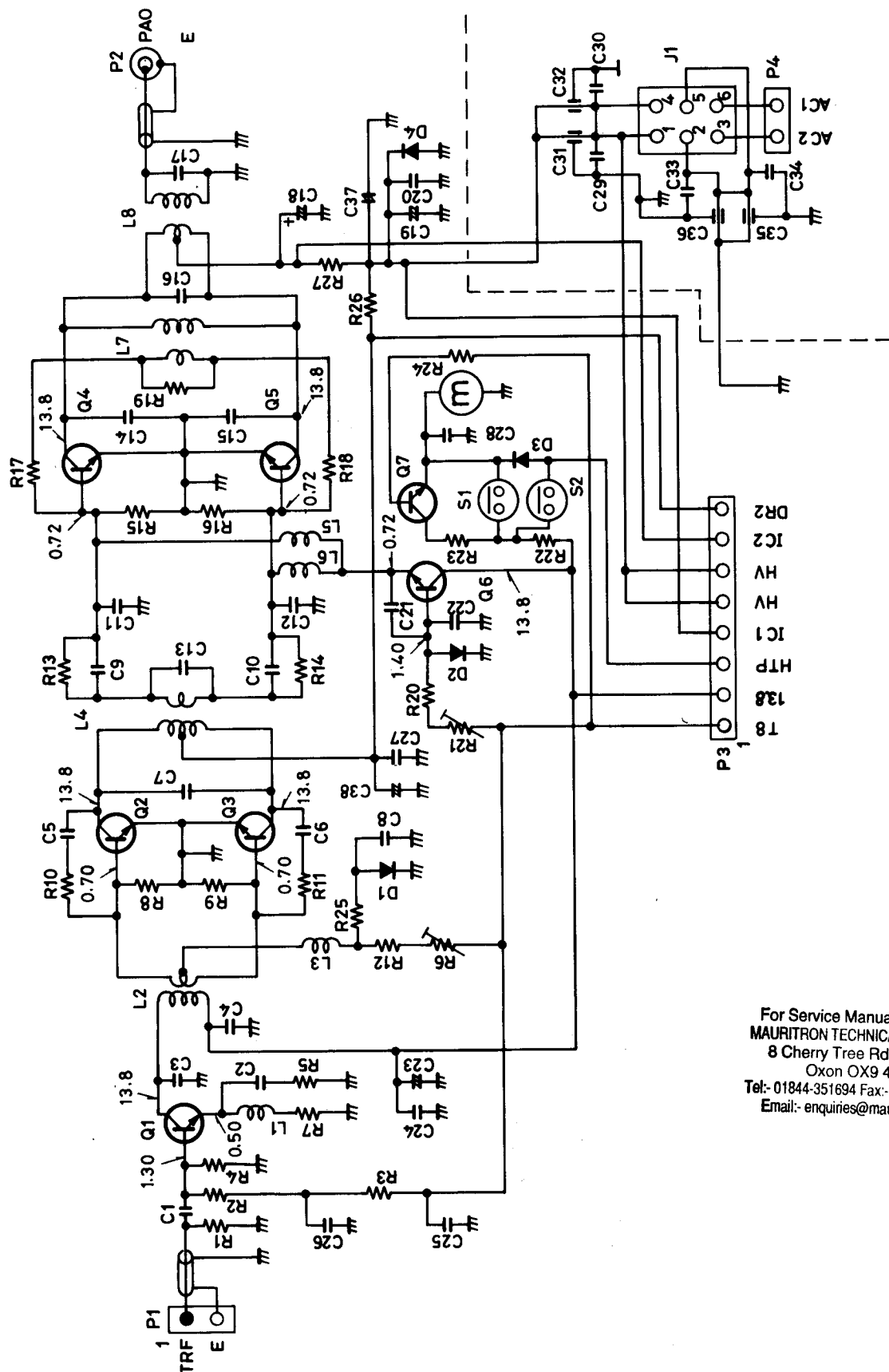
28 MODE SWITCH

MODE		J4-2 A0	J4-3 A1
NOR	NOR	H	L
	REV	L	H
CW RTTY FM		L	L

IC1-13(E1) TRIGGER

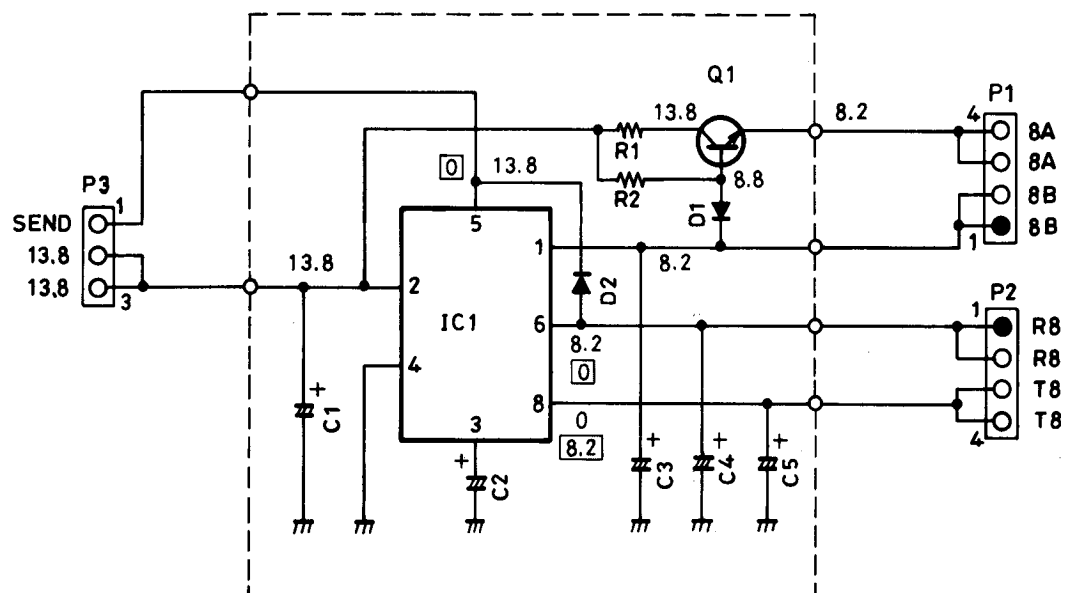


PA UNIT CIRCUIT AND VOLTAGE DIAGRAM



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SECTION 11 PARTS LIST

[EF UNIT]

REF. NO.	DESCRIPTION	PART NO.
R1	Surge Absorber	DSA-301
R2	Resistor	4.7K R25
C1	Ceramic (EXT SP)	0.0047 50V
C2	Ceramic (KEY)	0.0047 50V
C3	Ceramic (KEY)	0.0047 50V
J1	Pin Jack (N.C.)	AT-700
J2	Pin Jack (X-VETER)	AT-700
J3	Pin Jack (R.ANT IN)	AT-700
J4	Pin Jack (R.ANT OUT)	AT-700
J5	Pin Jack (SEND)	AT-700
J6	Pin Jack (EALC)	AT-700
J7	Pin Jack (MEMO)	AT-700
J8	Pin Jack (RTTY)	AT-700
J9	Jack (EXT.SP)	HSJ0779-01A
J10	Jack (KEY)	LJ035-1-2
J11	Jack (ANT)	FM-MD-RM1
J12	Jack (EARTH)	SQ-2054
J13	Connector (ACC)	1625-24R
P1	Connector	TL-25H-04-A1
P2	Connector	TL-25H-03-A1
P3	Connector	TL-25H-10-A1
P4	Connector (ANT)	TMP-P01X-A1
P5	Connector (MEMO AC)	SMP-04V-B
P6	Connector	TL-25H-02-A1
P7	Connector	TL-25H-05-A1
P8	Connector	TL-25H-07-A1
P9	Connector (SP)	5250-2A
S1	Slide Switch	S1
SP1	SPEAKER	090A06

[PA UNIT]

REF. NO.	DESCRIPTION	PART NO.
Q1	Transistor	2SC1971
Q2	Transistor	2SC1945
Q3	Transistor	2SC1945
Q4	Transistor	2SC2097
Q5	Transistor	2SC2097
Q6	Transistor	2SD313
Q7	Transistor	2SC2120
D1	Varistor	MV5
D2	Varistor	MV11
D3	Diode	1N4002
D4	Diode	15CD11
R1	Resistor	220 R25
R2	Resistor	390 R25
R3	Resistor	10 R25
R4	Resistor	100 R25
R5	Resistor	2.2 R25
R6	Resistor	100 FR10
R7	Resistor	3.3 R25
R8	Resistor	22 R25
R9	Resistor	22 R25
R10	Resistor	120 R50
R11	Resistor	120 R50
R12	Resistor	68 R50
R13	Resistor	2.2 2W (RSF2B)
R14	Resistor	2.2 2W (RSF2B)
R15	Resistor	1.5 R50
R16	Resistor	1.5 R50
R17	Resistor	3.3 1W
R18	Resistor	3.3 1W
R19	Resistor	10 R50
R20	Resistor	560 R25
R21	Trimmer	1K FR10
R22	Resistor	68 1W
R23	Resistor	22 R25
R24	Resistor	2.2K R25
R25	Resistor	1.8 R25
R26	Resistor	0.1 2W
R27	Resistor	0.012 5W
C1	Ceramic	0.001 50V
C2	Barrier Lay	0.0012 50V
C3	Ceramic	100P 50V
C4	Barrier Lay	0.1 25V
C5	Mylar	0.01 50V
C6	Mylar	0.01 50V
C7	Cylinder	100P 50V
C8	Barrier Lay	0.1 25V
C9	Monolythic	6800P 50V
C10	Monolythic	6800P 50V
C11	Ceramic	470P SL 50V
C12	Ceramic	470P SL 50V
C13	Ceramic	470P SL 50V
C14	Ceramic	220P 500V
C15	Ceramic	220P 500V
C16	Ceramic	330P 500V
C17	Ceramic	39P 500V
C18	Electrolytic	1000 16V
C19	Electrolytic	220 16V
C20	Barrier Lay	0.1 25V
C21	Ceramic	0.0047 50V

[PA UNIT]

REF. NO.	DESCRIPTION	PART NO.	
C22	Electrolytic	10	16V
C23	Electrolytic	470	16V
C24	Barrier Lay	0.1	25V
C25	Barrier Lay	0.1	25V
C26	Barrier Lay	0.1	25V
C27	Barrier Lay	0.1	25V
C28	Barrier Lay	0.1	25V
C29	Barrier Lay	0.047	25V
C30	Barrier Lay	0.047	25V
C31	Feed Through	TF318-452E102GMV	
C32	Feed Through	TF318-452E102GMV	
C33	Barrier Lay	0.047	25V
C34	Barrier Lay	0.047	25V
C35	Feed Through	TF318-452E102GMV	
C36	Feed Through	TF318-452E102GMV	
C37	Electrolytic	220	16V
L1	Choke Coil	LW-22	
L2	Transformer	LR-117	
L3	Choke Coil	LW-18	
L4	Transformer	LR-113	
L5	Choke Coil	LW-18	
L6	Choke Coil	LW-18	
L7	Transformer	LR-83	
L8	Transformer	LR-114	
	Bead Core	2D1	
	Bead Core	2D1 (1=16)	
S1	Thermal Switch	OHD70M	
S2	Thermal Switch	OHD80M	
J1	Connector	LLR-6	
P1	Connector	TL-25H-02-A1	
P2	Connector	TMP-P01-XA1	
P3	Connector	TL-25H-08-A1	
P4	Connector	1545R-1	
B1	PA P.C.B	B-568	

[FIL UNIT]

REF. NO.	DESCRIPTION	PART NO.	
D1	Diode	1N60	
D2	Diode	1N60	
D3	Diode	1N4002	
L1	Coil	LR47	
L2	Coil	LR48	
L3	Coil	LR49	
L4	Coil	LR50	
L5	Coil	LR52	
L6	Coil	LR51	
L7	Coil	LR139	
L8	Coil	LR90	
L9	Coil	LR91	
L10	Coil	LR53	
L11	Coil	LR54	
L12	Coil	LR139	
L13	Coil	LR55	
L14	Coil	LR56	
L15	Coil	LR57	
L16	Coil	LR58	
L17	Coil	LR22A	
L18	Choke Coil	222L6	
L19	Choke Coil	222L6	
R1	Resistor	68	R25
R2	Resistor	47K	R25
R3	Resistor	47K	ELR25
R4	Resistor	47K	R25
R5	Resistor	12K	ELR25
R6	Resistor	12K	ELR25
C1	Dip Mica	DM20 2200P 500V 1CR	
C2	Ceramic	DD31-2-SL 220P 500V 02	
C3	Dip Mica	DM20 2700P 500V 1CR	
C4	Dip Mica	DM19 390P 500V 1CR	
C5	Dip Mica	DM20 1500P 500V 1CR	
C6	Dip Mica	DM19 680P 500V 1CR	
C7	Ceramic	DD31-0-SL82P 500V 02	
C8	Dip Mica	DM20 1200P 500V 1CR	
C9	Ceramic	DD31-2-SL220P 500V 02	
C10	Dip Mica	DM19 680P 500V 1CR	
C11	Dip Mica	DM19 470P 500V 1CR	
C12	Ceramic	DD31-2-SL 120P 500V 02	
C13	Dip Mica	DM19 680P 500V 1CR	
C14	Ceramic	DD35-0-SC39P 500V 02	
C15	Dip Mica	DM19 390P 500V 1CR	
C16	Dip Mica	DM19 390P 500V 1CR	
C17	Ceramic	DD38-0-SL27P 500V 02	
C18	Dip Mica	DM19 470P 500V 1CR	
C19	Ceramic	DD38-0-SL68P 500V 02	
C20	Ceramic	DD31-2-SL220P 500V 02	
C21	Ceramic	DD31-2-SL180P 500V 02	
C22	Ceramic	DD35-0-SL33P 500V 02	
C23	Ceramic	DD31-4-SL330P 500V 02	
C24	Ceramic	DD36-0-SL56P 500V 02	
C25	Ceramic	DD31-0-SL200P 500V 02	
C26	Ceramic	DD38-0-SL82P 500V 02	
C27	Ceramic	DD35-0-SL10P 500V 02	
C28	Ceramic	DD31-2-SL150P 500V 02	
C29	Ceramic	DD35-0-SL39P 500V 02	
C30	Ceramic	DD31-0-SL150P 500V 02	
C31	Ceramic	DD35-0-SL47P 500V 02	
C32	Ceramic	DD35-0-SL15P 500V 02	
C33	Ceramic	DD31-0-SL120P 500V 02	

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[FIL UNIT]

REF. NO.	DESCRIPTION	PART NO.
C34	Ceramic	DD35-0-SL27P 500V 02
C35	Ceramic	DD38-0-SL100P 500V 02
C36	Ceramic	100P 50V
C37	Ceramic	100P 50V
C38	Trimmer	ECV-1ZW20X40
C39	Ceramic	220P 50V
C40	Ceramic	100P 50V
C41	Ceramic	100P 50V
C42	Ceramic	0.0047 50V
C43	Ceramic	0.0047 50V
C44	Electrolytic	220 16V
RL1	Relay	LZ12H
J1	Connector	TMP-J01X-V1
J2	Connector	TL-25P-03-V1
J3	Connector	TMP-J01X-V1
J4	Connector	TL-25P-04-V1
P1	Connector	TL-25H-08-A1
P2	Connector	TL-25H-04-A1
P3	Connector	TL-25H-02-A1
S1	Rotary Switch	SRY-202C
B1	FIL P.C.B	B-569C

[ACC UNIT]

REF. NO.	DESCRIPTION	PART NO.
D1	Diode	1SS53
D2	Diode	1SS53
D3	Diode	1SS53
R1	Resistor	220 R25
R2	Resistor	220 R25
R3	Resistor	220 R25
R4	Resistor	220 R25
R5	Resistor	68 R25
R6	Resistor	220 R25
R7	Resistor	220 R25
R8	Resistor	220 ELR25
R9	Resistor	1K R25
R10	Resistor	220 R25
R11	Resistor	220 R25
R12	Resistor	220 R25
C1	Ceramic	0.0047 50V
C2	Ceramic	0.0047 50V
C3	Ceramic	0.0047 50V
C4	Ceramic	0.0047 50V
C5	Ceramic	0.0047 50V
C6	Ceramic	0.0047 50V
C7	Ceramic	0.0047 50V
C8	Ceramic	0.0047 50V
C9	Ceramic	220P 50V
C10	Ceramic	0.0047 50V
C11	Ceramic	0.0047 50V
C12	Ceramic	0.0047 50V
C13	Ceramic	0.0047 50V
C14	Ceramic	0.0047 50V
C15	Ceramic	0.0047 50V
C16	Ceramic	0.0047 50V
C17	Ceramic	0.0047 50V
C18	Ceramic	0.0047 50V
C19	Ceramic	0.0047 50V
C20	Ceramic	0.0047 50V
C21	Ceramic	0.0047 50V
C22	Ceramic	0.0047 50V
C23	Ceramic	0.0047 50V
RL1	Relay	FBR21BD012-M
J1	Connector	TL-25P-08-V1
J2	Connector	TL-25P-02-V1
J3	Connector	TL-25P-10-V1
J4	Connector	TL-25P-07-V1
J5	Connector	TL-25P-05-V1
J6	Connector	TL-25P-02-V1
J7	Connector	TL-01T-1 3B
J8	Connector	TL-25P-08-V1
J9	Connector	TL-25P-06-V1
J10	Connector	TL-25P-04-V1
J11	Connector	TL-25P-06-V1
F1	Fuse	5A
FH1	Fuse Holder	S-N5051
B1	ACC P.C.B	B-570B
L1	Coil	BT01RN1-A61
L2	Coil	BT01RN1-A61
L3	Coil	BT01RN1-A61

[ACC UNIT]

REF. NO.	DESCRIPTION	PART NO.
L4	Coil	BT01RN1-A61
L5	Coil	BT01RN1-A61
L6	Coil	BT01RN1-A61
L7	Coil	BT01RN1-A61
L8	Coil	BT01RN1-A61
L9	Coil	BT01RN1-A61
L10	Coil	BT01RN1-A61
L11	Coil	BT01RN1-A61
L12	Coil	BT01RN1-A61

[RF UNIT]

REF. NO.	DESCRIPTION	PART NO.
IC1	IC	TA7124P
IC2	IC	M51201L
Q1	Transistor	2SC2053
Q2	FET	2SK241Y
Q3	FET	2SK241GR
Q4	FET	2SK241GR
Q5	Transistor	2SC1636
Q6	FET	2SK125
Q7	FET	2SK125
Q8	Transistor	2SB562
Q9	Transistor	2SC945
Q10	Transistor	2SC945
Q11	Transistor	2SC2053
Q12	Transistor	2SC945Q
Q13	Transistor	2SC945
Q14	FET	2SK241Y
Q15	Transistor	2SA1015Y
Q16	Transistor	2SC945P
Q17	Transistor	2SC945P
D1	Diode	1SS53
D2	Diode	1SS53
D3	Diode	1SS53
D4	Diode	1SS53
D6	Diode	1SS97
D7	Diode	1SS97
D10	Diode	1SS97
D11	Diode	1SS97
D13	Diode	1SS53
D14	Diode	1SS53
D15	Diode	1SS53
D16	Diode	1SS53
D17	Diode	1SS53
D18	Diode	1SS53
D19	Diode	1SS53
D20	Diode	1SS53
D21	Diode	1SS53
D22	Diode	1SS53
D23	Diode	1SS53
D24	Diode	1SS53
D25	Diode	1SS53
D26	Diode	1SS53
D27	Diode	1SS53
D28	Diode	1SS53
D29	Diode	1SS53
D30	Diode	1SS53
D31	Diode	1SS53
D32	Diode	1SS53
D34	Diode	1SS53
D35	Zener Diode	XZ086
D36	Diode	1SS53
D37	Diode	1SS53
D38	Diode	1SS53
D39	Diode	1SS53
D40	Diode	1SS53
D41	Varactor Diode	1T25
D42	Diode	1SS99
D43	Diode	1SS99
D44	Diode	1SS99
D45	Diode	1SS99
D46	Diode	1SS53
D47	Diode	1SS53
D48	Diode	1SS53

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[RF UNIT]

REF. NO.	DESCRIPTION	PART NO.
D49	Diode	1SS53
D50	Diode	1SS53
D51	Diode	1N60
D52	Diode	1SS53
D53	Diode	1SS53
D54	Varistor	MV-11
F11	Crystal Filter	39M1B
F12	Crystal Filter	39M1B
X1	Crystal	CR4 (30.72MHz)
L1	Coil	LR85A
L2	Coil	LS-225
L3	Coil	LS-215
L4	Coil	LS-114
L5	Coil	LS-247
L6	Coil	LS-249
L7	Coil	LS-250
L8	Coil	LS-249
L9	Coil	LS-114
L10	Coil	LR-116
L11	Coil	LR-116
L12	Coil	LS-223
L13	Coil	LS-223
L14	Coil	LS-194
L15	Coil	LS-194
L16	Coil	LS-195
L17	Coil	LS-195
L18	Coil	LS-196
L19	Coil	LS-196
L20	Coil	LS-197
L21	Coil	LS-197
L22	Coil	LS-197
L23	Coil	LS-197
L24	Coil	LS-195
L25	Coil	LS-195
L26	Coil	LS-196
L27	Coil	LS-196
L28	Coil	LS-197
L29	Coil	LS-197
L30	Choke Coil	EL0810SK1-101K
L31	Choke Coil	EL0810SK1-101K
L32	Coil	LR-130
L33	Coil	LR-129
L34	Choke Coil	EL0810SK1-3R9K
L35	Choke Coil	EL0810SK1-4R7K
L36	Choke Coil	EL0810SK1-101K
L37	Coil	LR-20
L38	Coil	LS-198
L39	Coil	LR-116
L40	Coil	LR-116
L42	Coil	LS-232
L43	Coil	LS-232
L44	Coil	LS-226
L45	Coil	LS-136
L46	Coil	LS-227
L47	Coil	LA-137A
L48	Choke Coil	LAL04NA101K
R1	Resistor	680 ELR25
R2	Resistor	8.2K ELR25
R3	Resistor	100 ELR25
R4	Resistor	1K ELR25

[RF UNIT]

REF. NO.	DESCRIPTION	PART NO.
R5	Resistor	6.8K ELR25
R6	Resistor	1K ELR25
R7	Resistor	100 ELR25
R8	Resistor	2.2K ELR25
R9	Resistor	1K R25
R10	Resistor	100K ELR25
R11	Resistor	1K ELR25
R12	Resistor	100 ELR25
R13	Resistor	1K ELR25
R14	Resistor	100 ELR25
R15	Resistor	2.2K ELR25
R16	Resistor	390 ELR25
R17	Resistor	47 ELR25
R18	Resistor	220 ELR25
R19	Resistor	47 ELR25
R20	Resistor	220 ELR25
R21	Resistor	47 ELR25
R22	Resistor	220 ELR25
R23	Resistor	47 ELR25
R24	Resistor	220 ELR25
R25	Resistor	47 ELR25
R26	Resistor	220 ELR25
R27	Resistor	47 ELR25
R28	Resistor	220 ELR25
R29	Resistor	47 ELR25
R30	Resistor	220 ELR25
R31	Resistor	47 ELR25
R32	Resistor	220 ELR25
R33	Resistor	47 ELR25
R34	Resistor	220 ELR25
R35	Resistor	100 ELR25
R36	Resistor	100 ELR25
R37	Resistor	1K ELR25
R38	Resistor	10K R25
R39	Resistor	2.2K R25
R40	Resistor	4.7K R25
R41	Resistor	22 R25
R42	Resistor	22 R25
R43	Resistor	1K R25
R44	Resistor	4.7K R25
R45	Resistor	10K R10
R46	Resistor	10K R10
R47	Resistor	22K R25
R48	Resistor	10K ELR25
R49	Resistor	22K ELR25
R50	Resistor	56 R25
R51	Resistor	100 ELR25
R52	Resistor	4.7K ELR25
R53	Resistor	680 ELR25
R54	Resistor	4.7 R25
R56	Resistor	220 ELR25
R57	Resistor	10K ELR25
R59	Resistor	470 ELR25
R60	Resistor	22K ELR25
R61	Resistor	270 ELR25
R62	Resistor	4.7K ELR25
R63	Resistor	10K ELR25
R64	Resistor	10K ELR25
R65	Resistor	2.2K ELR25
R66	Resistor	1K ELR25
R67	Resistor	10K ELR25
R68	Resistor	10K ELR25
R69	Resistor	1K ELR25
R70	Resistor	2.2K ELR25

[RF UNIT]

REF. NO.	DESCRIPTION	PART NO.	
R71	Resistor	1K	ELR25
R72	Resistor	220	ELR25
R74	Resistor	100	R25
R75	Resistor	100	ELR25
R76	Resistor	100	R25
R77	Resistor	4.7K	R25
R78	Resistor	47K	R25
R79	Resistor	22K	ELR25
R80	Resistor	10K	ELR25
R81	Resistor	10K	ELR25
R82	Resistor	47K	ELR25
R83	Resistor	100K	ELR25
R84	Resistor	470	ELR25
R85	Resistor	4.7K	ELR25
R86	Resistor	1K	ELR25
R87	Resistor	100	ELR25
R88	Resistor	1.8M	ELR25
R89	Resistor	1.8K	ELR25
R90	Resistor	4.7K	ELR25
R91	Resistor	150	ELR25
R92	Resistor	10	R25
R93	Resistor	56	ELR25
R94	Resistor	10K	R25
C1	Ceramic	47P	50V
C2	Barrier Lay	0.1	25V
C3	Ceramic	0.001	50V
C4	Ceramic	5P	50V
C5	Ceramic	0.5	50V
C6	Ceramic	5P	50V
C7	Ceramic	0.0047	50V
C8	Ceramic	0.001	50V
C9	Ceramic	0.0047	50V
C10	Ceramic	24P	50V
C11	Ceramic	0.0047	50V
C12	Ceramic	0.0047	50V
C13	Ceramic	15P	50V
C14	Ceramic	15P	50V
C15	Ceramic	0.001	50V
C16	Ceramic	0.0047	50V
C17	Ceramic	15P	50V
C18	Ceramic	0.0047	50V
C19	Ceramic	15P	50V
C20	Ceramic	0.001	50V
C21	Ceramic	0.0047	50V
C22	Ceramic	24P	50V
C23	Ceramic	0.0047	50V
C24	Ceramic	0.0047	50V
C25	Ceramic	0.0047	50V
C27	Ceramic	0.0047	50V
C28	Ceramic	220P	50V
C29	Ceramic	33P	50V
C30	Ceramic	220P	50V
C31	Barrier Lay	0.1	25V
C32	Barrier Lay	0.1	25V
C33	Ceramic	100P	50V
C34	Ceramic	22P	50V
C35	Ceramic	100P	50V
C36	Barrier Lay	0.047	25V
C37	Barrier Lay	0.047	25V
C38	Ceramic	47P	50V
C39	Ceramic	4P	50V
C40	Ceramic	47P	50V
C41	Barrier Lay	0.047	25V

[RF UNIT]

REF. NO.	DESCRIPTION	PART NO.	
C42	Barrier Lay	0.047	25V
C43	Ceramic	15P	50V
C44	Ceramic	1P	50V
C45	Ceramic	15P	50V
C46	Ceramic	0.0047	50V
C47	Ceramic	0.0047	50V
C48	Ceramic	18P	50V
C49	Ceramic	2P	50V
C50	Ceramic	18P	50V
C51	Ceramic	0.0047	50V
C52	Ceramic	0.0047	50V
C53	Ceramic	10P	50V
C54	Ceramic	1.5P	50V
C55	Ceramic	10P	50V
C56	Ceramic	0.0047	50V
C57	Ceramic	0.0047	50V
C58	Ceramic	24P	50V
C59	Ceramic	2P	50V
C60	Ceramic	24P	50V
C61	Ceramic	0.0047	50V
C62	Ceramic	0.0047	50V
C63	Ceramic	8P	50V
C64	Ceramic	0.75P	50V
C65	Ceramic	8P	50V
C66	Ceramic	0.0047	50V
C67	Ceramic	0.0047	50V
C68	Ceramic	15P	50V
C69	Ceramic	1.5P	50V
C70	Ceramic	15P	50V
C71	Ceramic	0.0047	50V
C72	Ceramic	0.0047	50V
C73	Barrier Lay	0.047	25V
C74	Barrier Lay	0.047	25V
C75	Barrier Lay	0.047	25V
C77	Barrier Lay	0.047	25V
C78	Barrier Lay	0.047	25V
C79	Ceramic	0.0047	50V
C80	Barrier Lay	TBD04V122K	
C81	Barrier Lay	TBD08V153K	
C82	Barrier Lay	UFD085A821K	
C83	Barrier Lay	TBD06V682K	
C84	Barrier Lay	TBD04V122K	
C85	Barrier Lay	0.047	25V
C86	Barrier Lay	0.047	25V
C87	Barrier Lay	0.047	25V
C89	Barrier Lay	0.047	25V
C91	Barrier Lay	0.1	25V
C92	Barrier Lay	0.047	25V
C93	Ceramic	3P	50V
C94	Barrier Lay	0.047	25V
C96	Barrier Lay	0.047	25V
C97	Ceramic	0.0047	50V
C98	Barrier Lay	0.047	25V
C99	Ceramic	0.0047	50V
C100	Ceramic	27P	50V
C101	Ceramic	0.0047	50V
C102	Ceramic	0.0047	50V
C103	Ceramic	22P	50V
C104	Ceramic	0.0047	50V
C105	Ceramic	0.0047	50V
C106	Cylinder	68P	50V
C107	Ceramic	330P	50V
C108	Ceramic	56P	50V
C109	Ceramic	0.0047	50V

[RF UNIT]

REF. NO.	DESCRIPTION	PART NO.
C110	Mylar	0.01 50V
C111	Electrolytic	10 16V
C112	Ceramic	56P 50V
C113	Ceramic	330P 50V
C114	Ceramic	0.0047 50V
C115	Ceramic	0.0047 50V
C116	Electrolytic	0.47 50V
C117	Ceramic	0.0047 50V
C118	Ceramic	0.0047 50V
C119	Ceramic	0.0047 50V
C120	Ceramic	100P 50V
C121	Ceramic	0.0047 50V
C122	Electrolytic	10 16V
C123	Ceramic	0.0047 50V
C125	Barrier Lay	0.047 25V
C126	Barrier Lay	0.047 25V
C127	Barrier Lay	0.047 25V
C128	Barrier Lay	0.047 25V
C129	Ceramic	33P 50V
C130	Ceramic	33P 50V
C132	Electrolytic	2.2 50V
C133	Electrolytic	2.2 50V
C137	Ceramic	0.0047 50V
C139	Ceramic	0.0047 50V
C140	Ceramic	0.0047 50V
C141	Ceramic	68P 50V
C142	Ceramic	0.0047 50V
C143	Ceramic	0.0047 50V
C144	Ceramic	0.0047 50V
C145	Ceramic	10P 50V
C146	Ceramic	10P 50V
C147	Ceramic	5P 50V
C148	Ceramic	47P 50V
C149	Ceramic	47P 50V
C150	Ceramic	56P 50V
C151	Ceramic	0.0047 50V
C152	Electrolytic	10 25V
C153	Ceramic	120P
B1	RF P.C.B	B-575C
B2	2nd MIX P.C.B	B-576A
	VCO Case	
RL1	Relay	BR221-D012
RL2	Relay	FBR211BD009-M
J1	Connector	TL-25P-02-V1
J2	Connector	TL-25P-04-V1
J3	Connector	TL-25P-06-V1
J4	Connector	TL-25P-04-V1
J5	Connector	TL-25P-06-V1
J6	Connector	TL-25P-04-V1
J7	Connector	TL-25P-08-V1
J8	Connector	TL-25P-02-V1
J9	Connector	TL-25P-02-V1
P1	Connector	TL-25P-09-A1

[IF UNIT]

REF. NO.	DESCRIPTION	PART NO.
IC1	IC	μPC1037H
IC2	IC	μPC1037H
Q1	Transistor	2SC945P
Q2	Transistor	2SC945P
Q3	Transistor	2SC945P
Q4	Transistor	2SA1015Y
Q5	Transistor	2SA1015Y
Q6	FET	2SK241Y
Q7	FET	2SK241GR
Q8	FET	2SK241GR
Q9	Transistor	2SC763C
Q10	Transistor	2SC945P
D1	Diode	1S953
D2	Diode	1S953
D3	Diode	1S953
D4	Diode	1SS53
D5	Diode	1SS53
D6	Diode	1SS53
D7	Diode	1SS53
D8	Diode	1SS53
D9	Diode	1SS53
D10	Diode	1SS53
D11	Diode	1SS53
D12	Diode	1SS53
D13	Diode	1SS53
D14	Diode	1SS53
D15	Diode	1SS53
D16	Diode	1SS53
D17	Diode	1SV99
D18	Diode	1SV99
D19	Diode	1SS53
D20	Diode	1SS53
D21	Diode	1SS53
D22	Diode	1SS53
D23	Diode	1SS53
D24	Diode	1SS53
D25	Diode	1SS53
D26	Diode	1SS53
D27	Diode	1SS53
D28	Diode	1SS53
D29	Diode	1SS53
D30	Diode	1SS53
D31	Varactor Diode	FC51M
D32	Diode	1SS53
D33	Diode	1SS53
D34	Diode	1SS53
D35	Diode	1SS53
D36	Diode	1SS53
D37	Diode	1SS53
D38	Diode	1SS53
D39	Diode	1SS53
D40	Varactor Diode	1T25
D41	Diode	1SS53
D42	Diode	1SS53
D43	Diode	1SS53
D44	Diode	1SS53
D45	Diode	1SS53
F11	Crystal Filter	9M22D2
F12	Ceramic Filter	CFJ455K5
F13	Crystal Filter	9M15A

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[IF UNIT]

REF. NO.	DESCRIPTION	PART NO.
X1	Crystal	CR12A
X2	Crystal	9.4665MHz HC-43/u
L1	Choke Coil	LAL04SK102K
L2	Coil	LS-246
L3	Coil	LS-187
L4	Coil	LS-188
L5	Coil	LS-188
L7	Coil	LS-245
L8	Coil	LS-253
L9	Coil	LS-251A
L10	Coil	LS-141A
L11	Choke Coil	LAL04SK2R2K
L12	Choke Coil	LAL04SK101K
L13	Choke Coil	LAL04SK8R2K
L14	Coil	LS-255
L15	Coil	LS-255
R1	Resistor	470 ELR25
R2	Resistor	330 ELR25
R3	Resistor	2.2K ELR25
R4	Resistor	10K ELR25
R5	Resistor	12 ELR25
R6	Resistor	100 ELR25
R7	Resistor	470 ELR25
R8	Resistor	27 ELR25
R9	Resistor	1.5K ELR25
R10	Resistor	27 ELR25
R11	Resistor	1.5K ELR25
R12	Resistor	2.2K ELR25
R13	Resistor	4.7K R25
R14	Resistor	3.3K ELR25
R15	Resistor	220 ELR25
R16	Resistor	2.2K ELR25
R17	Resistor	2.2K ELR25
R18	Resistor	220 ELR25
R19	Resistor	1K R25
R20	Resistor	2.2K ELR25
R21	Resistor	220 R25
R22	Resistor	220 R25
R23	Resistor	1K ELR25
R24	Resistor	4.7K ELR25
R25	Resistor	100K R25
R26	Resistor	2.2K R25
R27	Resistor	220 R25
R28	Resistor	220 R25
R29	Resistor	1K R25
R30	Resistor	10K R25
R31	Resistor	100K R25
R32	Resistor	3.3K ELR25
R33	Resistor	100K ELR25
R34	Resistor	100K ELR25
R35	Resistor	220 ELR25
R36	Resistor	100K ELR25
R37	Resistor	1M ELR25
R38	Resistor	100 ELR25
R39	Resistor	4.7K ELR25
R40	Resistor	1M ELR25
R41	Resistor	47K ELR25
R42	Resistor	1M ELR25
R43	Resistor	1K ELR25
R44	Resistor	220 ELR25
R45	Resistor	3.3K ELR25
R46	Resistor	1K ELR25

[IF UNIT]

REF. NO.	DESCRIPTION	PART NO.
R47	Resistor	3.3K ELR25
R48	Resistor	330 ELR25
R49	Resistor	2.2K ELR25
R50	Resistor	3.3K ELR25
R51	Resistor	220 R25
R52	Resistor	3.3K ELR25
R53	Resistor	220 ELR25
R54	Resistor	3.3K ELR25
R55	Resistor	220 R25
R56	Resistor	3.3K ELR25
R57	Resistor	220 ELR25
R58	Resistor	3.3K ELR25
R59	Trimmer	10K H0651A
R60	Resistor	47K ELR25
R61	Resistor	220K ELR25
R62	Resistor	1K R25
R63	Resistor	33K ELR25
R64	Resistor	100K ELR25
R65	Resistor	2.7K ELR25
R66	Resistor	1.5K ELR25
R67	Resistor	4.7K R25
R68	Resistor	220 ELR25
R69	Resistor	220 ELR25
R70	Resistor	3.3K ELR25
R71	Resistor	330 ELR25
R72	Trimmer	10K H0651A
R73	Resistor	4.7K ELR25
R74	Resistor	12K ELR25
R75	Resistor	2.2K ELR25
C1	Barrier Lay	0.047 25V
C2	Barrier Lay	0.047 25V
C3	Barrier Lay	0.047 25V
C4	Ceramic	0.0047 50V
C5	Barrier Lay	0.047 50V
C6	Ceramic	0.0047 50V
C7	Electrolytic	47 10V
C8	Ceramic	330P 50V
C9	Ceramic	0.0047 50V
C10	Ceramic	0.0047 50V
C11	Barrier Lay	0.047 25V
C12	Barrier Lay	0.1 25V
C13	Ceramic	0.0047 50V
C14	Ceramic	0.0047 50V
C15	Ceramic	56P 50V
C16	Ceramic	120P 50V
C17	Ceramic	0.0047 50V
C18	Ceramic	33P 50V
C19	Ceramic	0.0047 50V
C21	Ceramic	33P 50V
C22	Ceramic	0.0047 50V
C23	Ceramic	0.0047 50V
C24	Ceramic	0.0047 50V
C25	Ceramic	0.0047 50V
C26	Ceramic	0.0047 50V
C27	Ceramic	0.0047 50V
C28	Ceramic	0.0047 50V
C29	Ceramic	0.0047 50V
C30	Ceramic	5P 50V
C32	Ceramic	0.0047 50V
C33	Ceramic	0.0047 50V
C34	Ceramic	47P 50V
C35	Ceramic	0.0047 50V
C36	Ceramic	0.0047 50V

[IF UNIT]

REF. NO.	DESCRIPTION	PART NO.	
C37	Ceramic	0.0047	50V
C38	Ceramic	47P	50V
C39	Ceramic	0.0047	50V
C40	Ceramic	0.0047	50V
C41	Ceramic	0.0047	50V
C42	Ceramic	0.0047	50V
C43	Barrier Lay	0.047	25V
C44	Barrier Lay	0.047	25V
C45	Barrier Lay	0.047	25V
C47	Ceramic	0.0047	50V
C48	Ceramic	0.0047	50V
C49	Ceramic	0.0047	50V
C50	Ceramic	470P	50V
C51	Barrier Lay	0.047	25V
C52	Barrier Lay	0.047	25V
C53	Barrier Lay	0.047	25V
C54	Barrier Lay	0.047	25V
C55	Barrier Lay	0.047	25V
C56	Ceramic	0.0047	50V
C57	Ceramic	82P UJ	50V
C58	Stycon	510P	50V
C59	Dip Mica	120P	50V
C60	Ceramic	0.0047	50V
C61	Ceramic	0.0047	50V
C62	Ceramic	0.0047	50V
C63	Ceramic	0.0047	50V
C64	Barrier Lay	0.1	25V
C65	Barrier Lay	0.047	25V
C66	Ceramic	470P	50V
C67	Ceramic	470P	50V
C68	Barrier Lay	0.047	25V
J1	Connector	RT-01T-1.3B	
J2	Connector	RT-01T-1.3B	
J3	Connector	RT-01T-1.3B	
J4	Connector	RT-01T-1.3B	
J5	Connector	RT-01T-1.3B	
J6	Connector	RT-01T-1.3B	
J7	Connector	RT-01T-1.3B	
J8	Connector	RT-01T-1.3B	
J9	Connector	TL-25P-09-V1	
J10	Connector	TL-25P-02-V1	
J11	Connector	TL-25P-02-V1	
J12	Connector	TL-25P-03-V1	
J13	Connector	5045-2A	
J14	Connector	TL-25P-05-V1	
J15	Connector	TL-25P-05-V1	
J16	Connector	TL-25P-02-V1	
J17	Connector	TL-25P-06-V1	
J18	Connector	TL-25P-06-V1	
J19	Connector	TL-25P-03-V1	
J20	Connector	TL-25P-05-V1	
J21	Connector	TL-25P-07-V1	
J22	Connector	TL-01T-1.3B	
J23	Connector	TL-01T-1.3B	
J24	Connector	TL-01T-1.3B	
J25	Connector	TL-01T-1.3B	
J26	Connector	TL-01T-1.3B	
J27	Connector	TL-01T-1.3B	
J28	Connector	TL-01T-1.3B	
J29	Connector	TL-01T-1.3B	
J30	Connector	TL-25P-03-V1	
J31	Connector	TL-25P-05-V1	
J32	Connector	RT-01T-1.3B	

[IF UNIT]

REF. NO.	DESCRIPTION	PART NO.
J33	Connector	RT-01T-1.3B
J34	Connector	RT-01T-1.3B
J35	Connector	RT-01T-1.3B
J36	Connector	TLB-P12H-B1
P2	Connector	SMF-01T-1.3
P3	Connector	SMF-01T-1.3
P4	Connector	SMF-01T-1.3
P5	Connector	SMF-01T-1.3
P6	Connector	SMF-01T-1.3
P7	Connector	SMF-01T-1.3
P8	Connector	SMF-01T-1.3
P9	Connector	SMF-01T-1.3
P10	Connector	SMF-01T-1.3
P11	Connector	SMF-01T-1.3
P12	Connector	SMF-01T-1.3
P13	Connector	SMF-01T-1.3
B1	IF P.C.B	B-577C
B2	FI P.C.B	B-633

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[MAIN UNIT]

REF. NO.	DESCRIPTION	PART NO.
IC1	IC	μ PC1037H
IC2	IC	μ PC1037H
IC3	IC	NJM4558D
IC4	IC	NJM4558D
IC5	IC	NJM082D
IC6	IC	NJM4558D
IC7	IC	NJM082D
IC8	IC	NJM4558D
IC9	IC	NJM4558D
IC10	IC	μ PC1181H
Q1	FET	2SK241GR
Q2	FET	2SK241GR
Q3	Transistor	2SC945P
Q4	Transistor	2SC945 ANY RANK
Q5	Transistor	2SC945 ANY RANK
Q6	FET	2SK30A-Y
Q7	Transistor	2SC945P
Q8	FET	2SK192AGR
Q9	Transistor	2SC945 ANY RANK
Q10	Transistor	2SC945 ANY RANK
Q11	Transistor	2SC945 ANY RANK
Q12	Transistor	2SC945 ANY RANK
Q13	Transistor	2SC945P
Q14	Transistor	2SC945P
Q15	Transistor	2SC945P
Q16	Transistor	2SC1645 ANY RANK
Q17	Transistor	2SD468
Q18	Transistor	2SC945P
Q19	Transistor	2SC1571G
Q20	Transistor	2SC945 ANY RANK
Q21	Transistor	2SC945P
Q22	Transistor	2SC945P
Q23	Transistor	2SA1015
Q24	Transistor	2SA1015
Q25	Transistor	2SA1015
Q26	Transistor	2SC945P
Q27	Transistor	2SA1015
Q28	Transistor	2SC945P
Q29	Transistor	2SA1015
Q30	Transistor	2SC945 ANY RANK
Q32	Transistor	2SC945P
Q33	Transistor	2SC945
Q34	Transistor	2SC945
Q35	Transistor	2SC945P
Q36	Transistor	2SA1015
D1	Diode	1N60
D2	Diode	1SS97
D3	Diode	1SS53
D5	Diode	1SS53
D6	Diode	1SS53
D7	Diode	1SS53
D8	Diode	1SS53
D9	Diode	1SS53
D10	Diode	1SS53
D11	Diode	1SS53
D12	Diode	1SS53
D13	Diode	1SS53
D14	Diode	1SS53
D15	Diode	1SS53
D16	Diode	1SS53
D17	Diode	1SS53
D18	Diode	1SS53

[MAIN UNIT]

REF. NO.	DESCRIPTION	PART NO.
D19	Diode	1SS53
D20	Zener Diode	MZ304B
D21	Diode	1SS53
D22	Diode	1SS53
D23	Diode	1SS53
D24	Diode	1SS53
D25	Diode	1SS53
D26	Diode	1SS53
D27	Diode	1SS53
D28	Diode	1SS53
D29	Diode	1SS53
D30	Diode	1SS53
D31	Diode	1SS53
D34	Diode	1SS53
D35	Diode	1SS53
D36	Diode	1SS53
X1	Crystal	9.0116MHz HC-43/u
X2	Crystal	9.0145MHz HC-43/u
X3	Crystal	9.0115MHz HC-43/u
L1	Coil	LS-238
L2	Coil	LS-239
L3	Coil	LS-240
L4	Choke Coil	LAL04SK102K
L5	Coil	LS171
L6	Coil	LS-171
L7	Coil	LS-243
L8	Choke Coil	LAL04SK820K
R1	Resistor	1.5K ELR25
R2	Resistor	1K ELR25
R3	Resistor	100 ELR25
R4	Resistor	12K ELR25
R5	Resistor	1K ELR25
R7	Resistor	1K ELR25
R8	Resistor	100 R25
R9	Resistor	22K ELR25
R10	Resistor	4.7K ELR25
R11	Resistor	220 ELR25
R12	Resistor	220 ELR25
R13	Resistor	4.7K ELR25
R14	Resistor	4.7K ELR25
R15	Trimmer	100K H0651A
R16	Trimmer	100K H0651A
R17	Resistor	47K ELR25
R18	Resistor	3.3K ELR25
R19	Resistor	100 R25
R21	Resistor	1K ELR25
R22	Resistor	220 ELR25
R23	Resistor	10K ELR25
R24	Resistor	10K ELR25
R25	Resistor	10K ELR25
R26	Resistor	10K ELR25
R27	Resistor	1K ELR25
R28	Resistor	10K ELR25
R29	Resistor	10K ELR25
R30	Resistor	10K ELR25
R31	Resistor	10K ELR25
R32	Resistor	10K ELR25
R33	Resistor	47K R25
R34	Resistor	100K ELR25
R35	Resistor	470K ELR25
R36	Resistor	33K ELR25
R37	Resistor	47K ELR25

[MAIN UNIT]

REF. NO.	DESCRIPTION	PART NO.	
R38	Resistor	4.7K	ELR25
R39	Resistor	3.3K	ELR25
R40	Resistor	150	ELR25
R41	Resistor	33K	ELR25
R42	Trimmer	2.2K	H0651A
R44	Resistor	1K	ELR25
R45	Resistor	100K	ELR25
R46	Resistor	1K	ELR25
R47	Resistor	22K	ELR25
R48	Resistor	22K	ELR25
R49	Resistor	100	ELR25
R50	Resistor	10K	ELR25
R51	Resistor	10K	ELR25
R52	Resistor	10K	ELR25
R53	Resistor	10K	ELR25
R54	Resistor	2.2K	ELR25
R55	Resistor	2.2K	ELR25
R56	Resistor	4.7	ELR25
R57	Resistor	10K	ELR25
R58	Resistor	10K	ELR25
R59	Resistor	10K	ELR25
R60	Resistor	10K	ELR25
R61	Resistor	10K	ELR25
R62	Resistor	10K	ELR25
R63	Resistor	220	R25
R64	Resistor	15	ELR25
R65	Resistor	10K	ELR25
R66	Resistor	220	ELR25
R67	Resistor	4.7K	ELR25
R68	Resistor	220	ELR25
R69	Resistor	3.9K	ELR25
R70	Resistor	1K	R25
R71	Resistor	15	ELR25
R72	Resistor	10K	ELR25
R73	Resistor	220	R25
R74	Resistor	3.3K	ELR25
R75	Resistor	100	ELR25
R76	Resistor	180K	ELR25
R77	Resistor	4.7K	ELR25
R78	Resistor	4.7K	ELR25
R79	Resistor	4.7K	ELR25
R80	Resistor	820	ELR25
R81	Resistor	100	ELR25
R82	Resistor	330	ELR25
R83	Resistor	27K	ELR25
R84	Resistor	3.3K	ELR25
R85	Resistor	3.3K	ELR25
R86	Resistor	220	ELR25
R87	Resistor	2.2K	ELR25
R88	Resistor	2.2K	ELR25
R89	Resistor	47K	ELR25
R90	Resistor	47K	ELR25
R91	Resistor	10K	ELR25
R92	Resistor	47K	ELR25
R93	Resistor	47K	ELR25
R94	Resistor	15K	ELR25
R96	Resistor	220K	ELR25
R97	Resistor	100K	ELR25
R98	Resistor	470K	ELR25
R99	Resistor	220K	ELR25
R100	Resistor	1.8M	ELR25
R101	Resistor	470	ELR25
R102	Resistor	470	ELR25
R103	Resistor	15K	ELR25

[MAIN UNIT]

REF. NO.	DESCRIPTION	PART NO.	
R104	Resistor	22K	ELR25
R105	Resistor	4.7K	ELR25
R106	Resistor	4.7K	ELR25
R107	Resistor	4.7K	ELR25
R108	Resistor	1K	ELR25
R109	Resistor	330	ELR25
R110	Resistor	1K	ELR25
R111	Trimmer	100	H0651A
R112	Resistor	330	ELR25
R113	Resistor	10K	ELR25
R114	Resistor	10K	ELR25
R115	Resistor	100K	ELR25
R116	Resistor	33K	ELR25
R117	Resistor	4.7K	R25
R118	Resistor	2.2K	ELR25
R119	Resistor	4.7K	ELR25
R120	Resistor	10K	R25
R121	Resistor	10K	ELR25
R122	Resistor	3.3M	ELR25
R123	Resistor	15M	ERC14GJ
R124	Resistor	3.3M	ELR25
R127	Trimmer	100K	H0651A
R128	Trimmer	3.3K	H0651A
R130	Resistor	10K	ELR25
R131	Resistor	10K	ELR25
R132	Resistor	180K	ELR25
R133	Trimmer	1K	H0651A
R134	Resistor	330	ELR25
R135	Resistor	22K	ELR25
R136	Resistor	4.7K	ELR25
R137	Resistor	4.7K	ELR25
R138	Resistor	4.7K	ELR25
R139	Resistor	330	ELR25
R140	Resistor	100	ELR25
R141	Resistor	68K	ELR25
R142	Resistor	68K	ELR25
R143	Resistor	39K	ELR25
R144	Trimmer	10K	H0651A
R145	Resistor	1M	ELR25
R146	Trimmer	33K	H0651A
R147	Trimmer	10K	H0651A
R148	Resistor	1M	ELR25
R149	Resistor	3.3M	ELR25
R150	Resistor	3.3M	ELR25
R151	Resistor	10K	ELR25
R152	Resistor	10K	ELR25
R153	Resistor	47K	ELR25
R155	Resistor	47	ELR25
R156	Resistor	3.3M	R25
R157	Resistor	3.3M	ELR25
R158	Resistor	10M	ERC14GJ
R159	Resistor	3.9K	ELR25
R160	Resistor	3.3M	ELR25
R161	Resistor	3.3M	ELR25
R162	Resistor	10M	ERC14GJ
R163	Resistor	3.9K	ELR25
R164	Trimmer	33K	H0651A
R165	Resistor	820K	ELR25
R166	Resistor	820K	ELR25
R167	Resistor	100K	ELR25
R168	Resistor	3.3M	ELR25
R169	Resistor	47K	ELR25
R170	Resistor	1M	ELR25
R171	Resistor	10K	ELR25