o ICOM

SERVICE MANUAL

HF/50MHz ALL MODE TRANSCEIVER

Icom Inc.

INTRODUCTION

This service manual describes the latest service information for the **IC-726** HF/50 MHz ALL MODE TRANSCEIVER at the time of publication.

To upgrade quality, all electrical or mechanical parts and internal circuits are subject to change without notice or obligation.

DANGER

NEVER connect the transceiver to an AC outlet or to a DC power supply that uses more than 16 V. This will ruin the transceiver.

DO NOT expose the transceiver to rain, snow or any liquids.

DO NOT reverse the polarities of the DC power supply when connecting the transceiver.

DO NOT apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the transceiver's front end.



ORDERING PARTS

Be sure to include the following four points when ordering replacement parts:

- 1. 10-digit order numbers
- 2. Component part number and name
- 3. Equipment model name and unit name
- Quantity required

<SAMPLE ORDER>

1110001310	IC	µPC577HA	IC-726	MAIN UNIT	5 pieces
8810005510	Screw	PH M3 × 6 ZK BS	IC-726	Top cover	10 pieces

REPAIR NOTE

- Make sure a problem is internal before disassembling the transceiver.
- DO NOT open the transceiver until the transceiver is disconnected from the power source.
- DO NOT force any of the variable components. Turn them slowly and smoothly.
- DO NOT short any circuits or electronic parts. An insulated tuning tool MUST be used for all adjustments.
- DO NOT keep power ON for a long time when the transceiver is defective.
- 6. DO NOT transmit power into a signal generator

Addresses are provided on the inside back cover for your convenience. or a sweep generator.

- 7 ALWAYS connect a 40 dB~50 dB attenuator between the transceiver and a deviation meter or spectrum analyzer when using such test equipment.
- READ the instructions of test equipment thoroughly before connecting equipment to the transceiver.

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GENERAL

 Frequency coverage 	: Receive	500 kHz~30 MHz, 50 MHz~54	1 MHz
	Transmi	t 160-m band 1.8~2.0 MHz	17-m band 18.068~18.168 MHz
		80-m band 3.5~4.0 MHz	15-m band 21.0 ~21.45 MHz
		40-m band 7.0~7.3 MHz	12-m band 24.89 ~24.99 MHz
		30-m band 10.1~10.15 MHz	10-m band 28.0 ~29.7 MHz
		20-m band 14.0~14.35 MHz	6-m band 50.0 \sim 54.0 MHz
Modes	: SSB (A3	J), CW (A1), AM (A3), FM (F3)	
 Number of memory channels 	: 26		
Antenna impedance	: 50 Ω un	balanced	
Usable temperature range	: - 10 °C	~+60 ℃ (+14 °F~+140 °F)	
Frequency stability		10 ± 200 Hz up to one hour after p	ower is turned ON.
		an ± 30 Hz after one hour at $+25$ °	
		an ±350 Hz at 0 °C~+50 °C (+32	
 Power supply requirement 	: 13.8 V E	$DC \pm 15$ % (negative ground)	
• Current drain (at 13.8 V DC)	: Receive		dio output 1.6 A
	Transmi	t 20 A	
Dimensions	: 241 (W)	×94 (H) × 239 (D) mm 9.5 (W) × 3	.7 (H)×9.4 (D) in
		ions not included)	
• Weight	: 4.8 kg (
	3	,	

Output power	: SSB, CW, FM (HF) 100 W max., (50 MHz) 10 W max. AM (HF) 40 W max., (50 MHz) 4W max.
 Spurious emissions 	: 1.8 \sim 30 MHz Less than -50 dB 50 \sim 54 MHz Less than -60 dB
 Carrier suppression 	: Less than -40 dB
 Unwanted sideband 	: Less than -50 dB with 1000 Hz modulation
 Microphone impedance 	: 600 Ω

RECEIVER

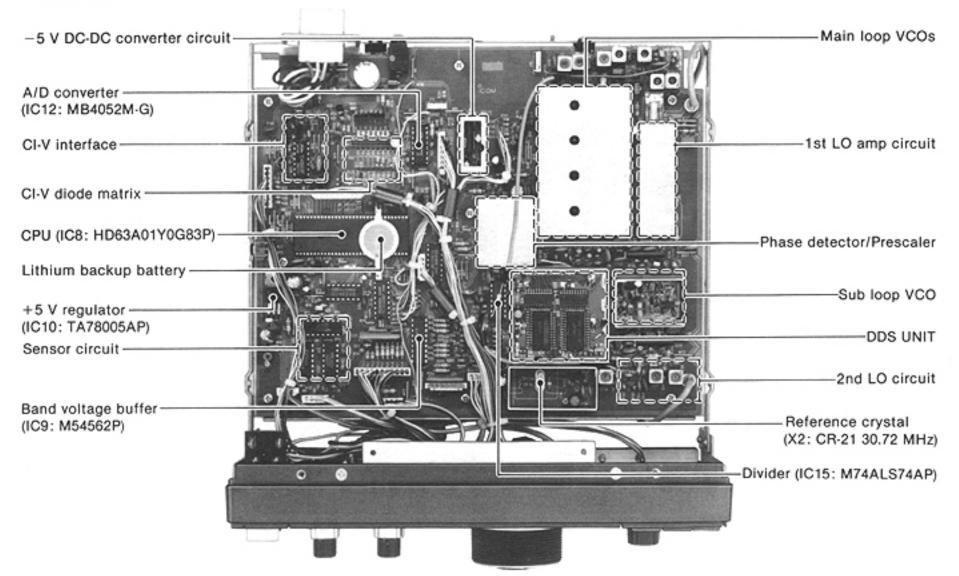
Receive system	:	SSB, CW, AM FM	Double-conversion super	-
 Intermediate frequencies 	:	1st SSB CW AM, FM 2nd SSB CW AM, FM 3rd FM	70.4515 MHz 70.4506 MHz 75.4500 MHz 9.0115 MHz 9.0106 MHz	
 Sensitivity (preamplifier ON) 	:	(1.8~30 MHz) (28~30 MHz) (50~54 MHz)	AMLess than 2.0FMLess than 0.5SSB, CWLess than 0.1AMLess than 2.0	6 μV for 10 dB S/N) μV for 10 dB S/N 5 μV for 12 dB SINAD 3 μV for 10 dB S/N) μV for 10 dB S/N 3 μV for 12 dB SINAD
 FM squelch sensitivity (preamplifier ON) 	:	Less than 0.3 µ	١V	
• Selectivity	:	AM Mor	re than 2.3 kHz/-6 dB re than 6.0 kHz/-6 dB re than 15 kHz/-6 dB	Less than 4.0 kHz/-60 dB Less than 20.0 kHz/-40 dB Less than 30 kHz/-50 dB
 Spurious response rejection Audio output impedance Audio output power RIT variable range 	•	More than 70 d 8 Ω More than 2.6 More than ±1.	W at 10 % distortion with	an 8 Ω load

All stated specifications are subject to change without notice or obligation.

SECTION 2 INSIDE VIEWS

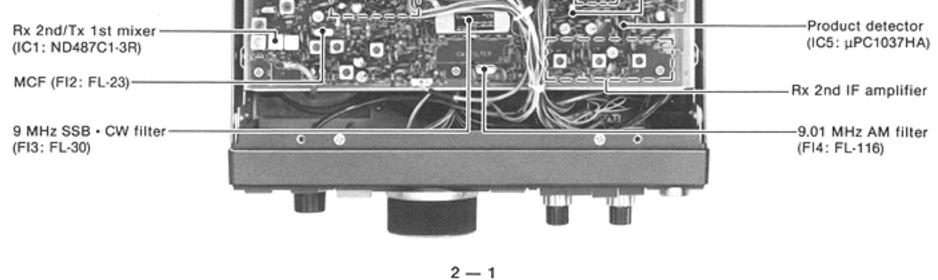
2-1 PLL AND MAIN UNITS

PLL UNIT

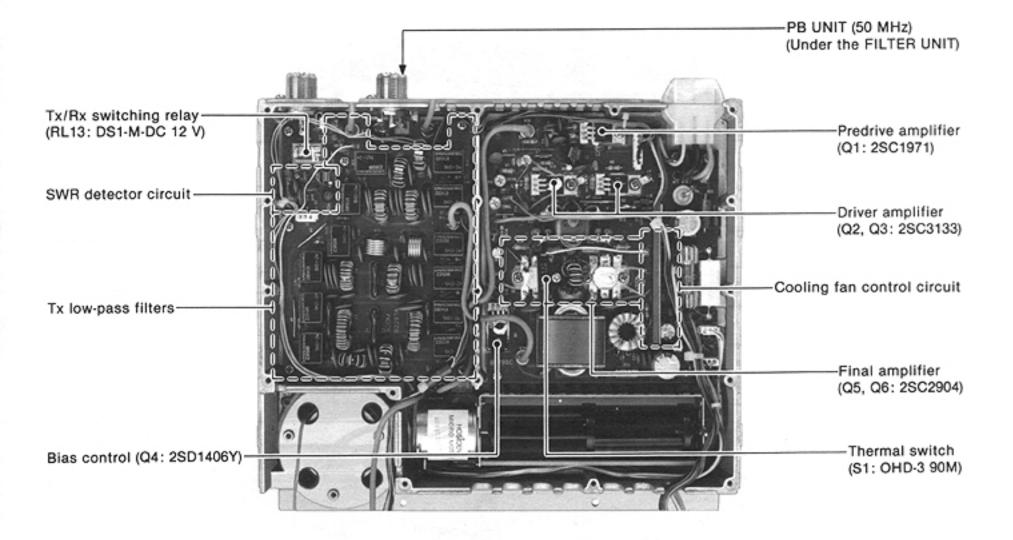


MAIN UNIT

	9	
		Preamplifier circuit
Rx bandpass filters		
		AM • FM UNIT
Rx 1st mixer circuit		
Tx 2nd mixer circuit —		APC/ALC circuit
		BFO circuit
MCF (FI1: FL-64)		SSB modulator
Noise blanker circuit		(IC6: μPC1037HA)

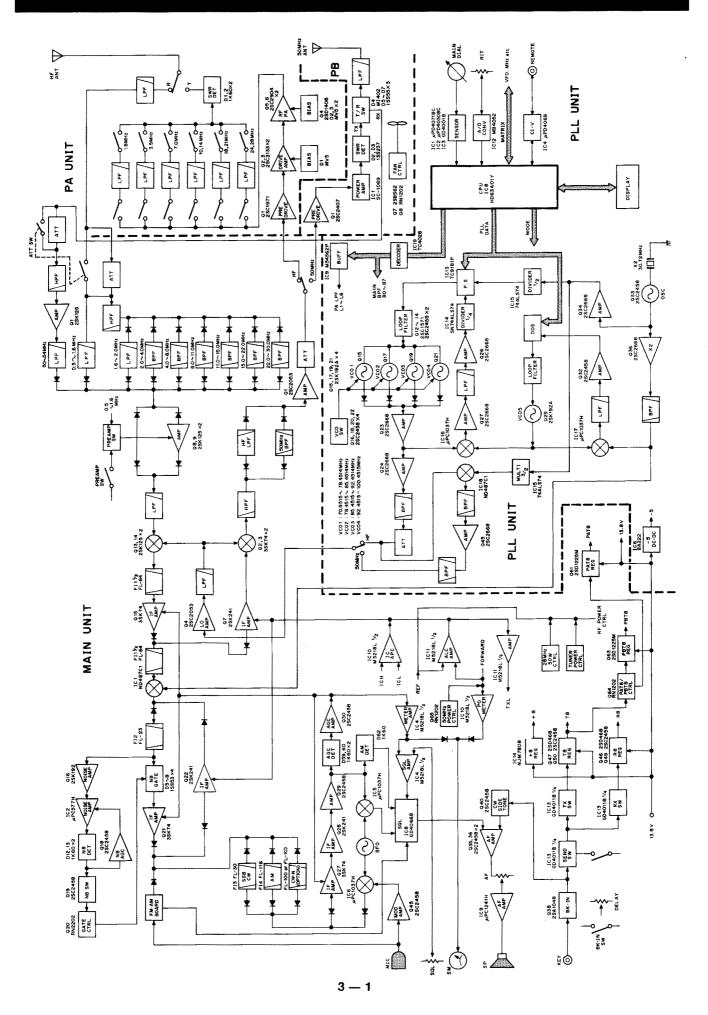


2-2 PA, PB AND FILTER UNITS





SECTION 3 BLOCK DIAGRAM



SECTION 4 MECHANICAL PARTS AND DISASSEMBLY

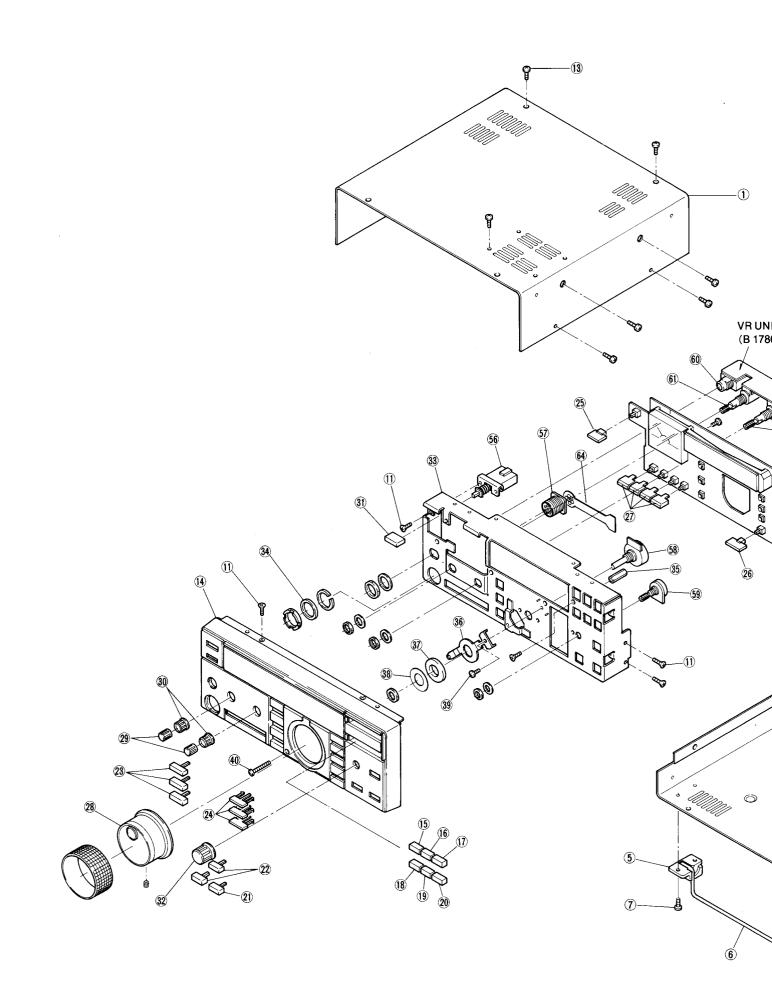
4-1 FRAME DISASSEMBLY

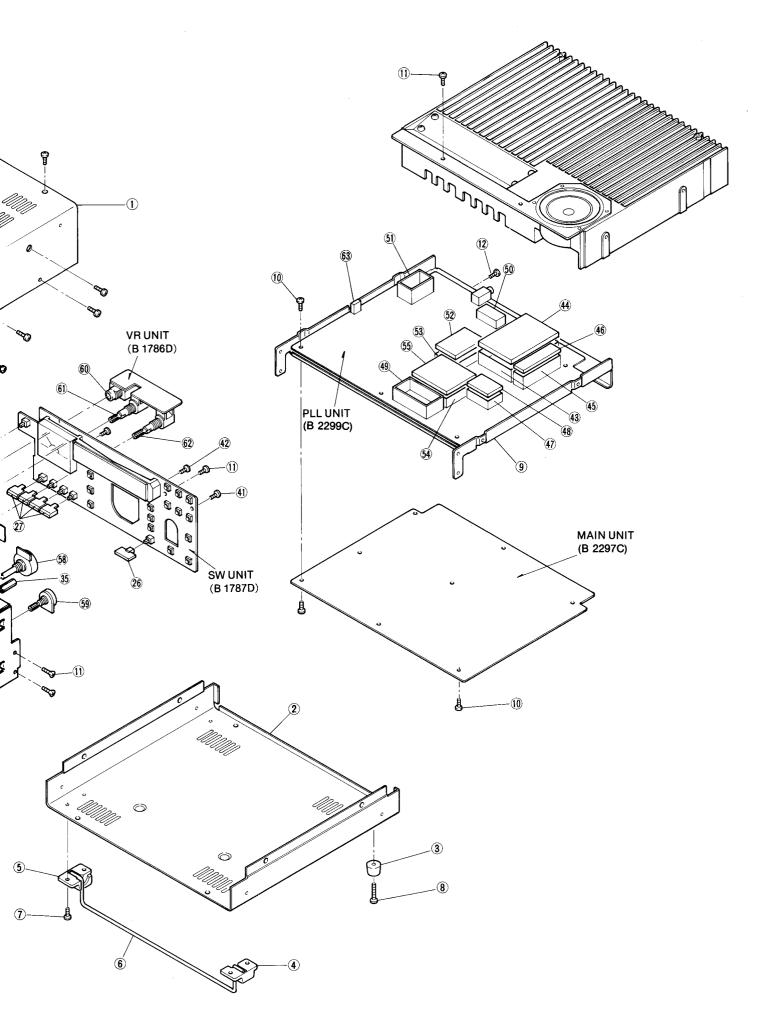
LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.	LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.
1	8110003270	Top cover	1	35	8930000720	Thread spacer (V)	4
2	8110003280	Bottom cover	1	36	8930013990	610 Brake plate	1
3	8930002900	Rubber foot (A)	2	37	8930014030	610 Brake pad	1
4	8930005790	Foot (A)	1	38	8930013940	610 Brake sheet	1
5	8930005800	Foot (B)	1	39	8810001110	PH B0 M3×6	1
6	8010001520	Stand (C)	1	40	8810005470	PH M2.6×14 ZK	1
1	8810005520	PH B1 M3×8 ZK	4	(41)	8810001650	PH FT M3×6	9
8	8810005540	PH B1 M4×10	2	42	8810001320	PH B1 M2.6×6 Ni	4
9	8010007851	610 Chassis-1	1	43	8510001330	79 shield case	1
10	8810001350	PH B1 M3×6	16	44	8510001340	79 shield case cover	1
1	8810002160	FH M3×5	16	45	8510001060	Shield case	1
(12)	8810003670	ICOM screw A 6	2	46	8510001740	Shield case cover	1
(3)	8810005510	FH M3×6 ZK BS	16	47	8510000881	194 VCO case-1	1
14	8210004670	610 Front panel (B)	1	48	8510003460	194 VCO case cover (A)	1
(15)	8610004640	Button K119 [VFO]	1	49	8510000230	220 shield case	1
16	8610004650	Button K119 (A) [SPLIT]	1	50	8510002200	VCO case	1
1	8610004660	Button K119 (B) [UP]	1	51	8510000881	194 VCO case-1	1
18	8610004670	Button K119 (C) [MEMO]	1	52	8510002690	PA shield case (B)	1
19	8610004680	Button K119 (D) [MW]	1	53	8510004360	PA shield case (B) cover (A)	1
20	8610004690	Button K119 (E) [DOWN]	1	54	8510005310	DDS shield case	1
21	8610004700	Button K119 (F) [FUNC]	1	55	8510005320	DDS shield case cover	1
22	8610004710	Button K119 (G) [RIT, TUNER]	2	56	2230000120	Switch [POWER] SDDSA3159A	1
23	8610004720	Button K120 [SSB, CW/N, AM/FM]	3	57	6510000190	Connector [MIC] FM214-8SS (P)	1
24	8610004730	Button K121 [kHz, MHz, BAND]	3	58	7600000100	Rotary encoder EC24B50B0013A	1
25	8610003850	Button K98 [TRANSMIT]	1	59	7210000570	Variable resistor [RIT]	1
26	8610004741	Button K122-1 [LOCK]	1		0.45000004.0	Connector [PHONES]	
27	8610004751	Button K123-1 [NB, ATT, PRE, AGC]	4	60	6450000810	HLJ4306-01-3070	1
28	8610004760	Dial N104 (A) (incl. rubber ring and screw)	1	61)	7210001320	Variable resistor [AF/SQL] RK124221002DA	1
29	8610004770	Knob N45C [AF, MIC]	2		7040004550	Variable resistor [MIC/RF PWR]	
30	8610000500	Knob N69 [SQL, RF PWR]	2	62	7210001550	RK1242210032A	1
31	8610001560	Button K42 [POWER]	1		7040004500	Variable resistor [RIT]	
32	8610004780	Knob N87 (B) [RIT]	1	63	7210001530	RK09K1110AEGA	1
33	8010007860	610 Sub chassis	1	64	0910006330	Flexible cable P.C. Board B 792	1
34)	8930003200	Spacer (P)	1				

Screw abbreviations

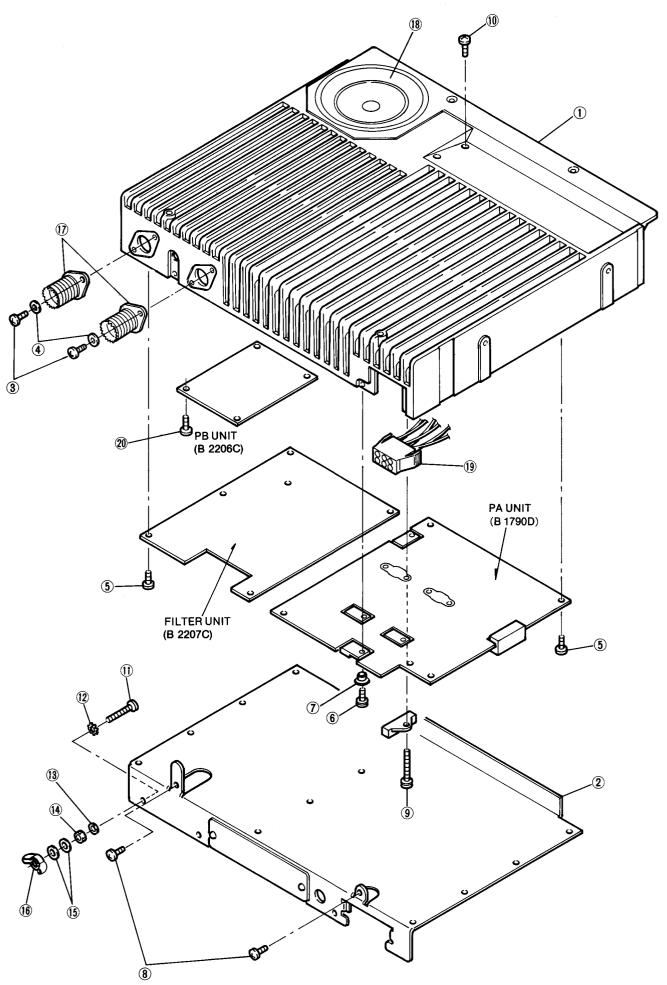
PH: Pan head FH: Flat head B0, B1, FT: Self-tapping screw ZK: Black Ni: Nickel BS: Brass

4 — 1





4-2 PA UNIT AND ACCESSORIES



• PA UNIT

LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.
1	8410000781	401 Heatsink-1	1
2	8510005462	PA cover-2	1
3	8810001910	PH M3×6 Ni BS	4
4	8850000420	Spring washer M3 Ni	4
(5)	8810001350	PH B1 M3×6	24
6	8810003170	Setscrew A M3×8	7
1	6910000310	Bushing B312D	1
8	8810003670	ICOM screw A6	2
9	8810003210	Setscrew A M3×15	1
10	8810000220	PH M3×5	4
1	8810001980	PH M5×16 Ni BS	1
12	8850000590	Star washer M5	1
(3)	8850000440	Spring washer M5 Ni	1
14	8830000210	Nut M5 Ni BS	1
15	8850000150	Flat washer M5 Ni BS	2
(6	8830000360	Wing nut M5 Ni	1
0	6510004880	ANT connector MR-DS-E 01	2
18	2510000040	Speaker C065K12l0810	
(19	6510003780	DC power socket LLR-6 1	
20	8810001350	PH B1 M3×6	4

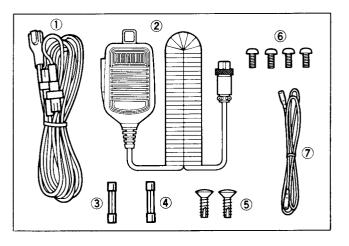
Screw abbreviations PH: Pan head B1: Self-tapping screw Ni: Nickel BS: Brass

• ACCESSORIES

LABEL NUMBER	ORDER NO.	DESCRIPTION	Ω ΤΥ.
1	Optional product	DC power cable OPC-025 A	1
2	Optional product	Hand microphone HM-12	1
3	5210000080	Spare fuse FGB 20A	1
4	5210000130	Spare fuse FGB 4A	1
5	8810005500	FH B1 M4 × 12 CR	2
6	8810001600	PH ST M3×6	4
1	8970016530	Jumper wire #795-AC	1

Screw abbreviations

PH: Pan head FH: Flat head B1, ST: Self-tapping screw



SECTION 5 PARTS LIST

[FRONT UNIT]

[FRONT UNIT]

DESCRIPTION

10 MS9 100 μF 50 MS7 R47 μF DD108 B 472K 50V DD108 B 472K 50V UZE 08X 104M

DD108 B 472K 50V DD108 B 472K 50V UP125 X 472M UP125 X 472M DD108 B 472K 50V

HLC9599-01-3210 SLP153B SLP253B HRS7219A-Y2-30 HRS7219A-Y2-30 HRS7219A-Y2-30

KL-218U-43 (M610)

SKHHAK013A [M-CH DOWN] SKHHAK013A [VFO] SKHHAK013A [MEMO] SKHHAK013A [RIT] SKHHAK013A [MW] SKHHAK013A [FUNC] SKHHAK013A [SPLIT] SKHHAK013A [TUNER] SKHHAJ025A [BAND] SKHHAJ025A [MHz] SKHHAJ025A [kHz] SKHHAK013A [AM/FM] SKHHAK013A [CW/N] SKHHAK013A [SSB] EC24B50B0013A [MAIN DIAL]

B 1786D (VR) B 1787D (SW) B 1868 (SPEC)

B 792 B 1932A (LED) FSOH070RN FSOH070RN FSOH070RN

SDDSA3159A [POWER] SPPH23079A [ATT] SPPH23079A [PRE] SPPH23079A [NB] SPPH23079A [AGC] SPPH23079A [LOCK] SPPH23079A [TRANSMIT] SKHHAK013A [M-CH UP]

[i iioii				_	[]		
REF. NO.	ORDER NO.	D	ESCRIPTION]	REF. NO.	ORDER NO.	
IC1	1130000790	IC	μPD7225G	1	C1	4510000970	Electrolytic
			F.		C2	4510001150	Electrolytic
					C3	4010000520	Ceramic
Q1	1520000230	Transistor	2SB909M Q		C4	4010000520	Ceramic
Q2	1530000110	Transistor	2SC2458-GR		C5	4040000260	Barrier Layer
Q3	1530000110	Transistor	2SC2458-GR		C6	4010000520	Ceramic
Q4	1530000110	Transistor	2SC2458-GR		C7	4010000520	Ceramic
Q5	1590000350	Transistor	RN1204		C8	4020000250	Cylinder
Q6	1530000110	Transistor	2SC2458-GR		C9	4020000250	Cylinder
GO .	1000000110	Tansistor	2002400-011		C10	4010000520	Ceramic
D1	1730000180	Zener	RD8.2E B2				
D2	1710000160	Diode	1SS133		DS1	5030000380	LCD
D2 D3	1710000160	Diode	155133		DS2	5040001290	LED
D3 D4	1710000160	Diode	155133	1 1	DS2 DS3	5040001300	LED
					DS3 DS4	5080000170	LED
D5	1710000160	Diode	1SS133				
D6	1710000160	Diode	1SS133		DS5	5080000170	LED
D7	1710000160	Diode	1SS133		DS7	5080000170	LED
D8	1710000160	Diode	1SS133				
D9	1710000160	Diode	1SS133				
D10	1710000160	Diode	1SS133		ME1	5510000300	Meter
D11	1710000160	Diode	1SS133				
D12	1710000160	Diode	1SS133	1			
D13	1710000160	Diode	1SS133		S1	2230000120	Switch
D14	1710000160	Diode	1SS133		S2	2230000550	Switch
D15	1710000160	Diode	1SS133		S3	2230000550	Switch
D16	1710000160	Diode	1SS133		S4	2230000550	Switch
D17	1710000160	Diode	1SS133		S5	2230000550	Switch
D18	1710000160	Diode	1SS133		S6	2230000550	Switch
D19	1710000160	Diode	1SS133		S7	2230000550	Switch
					S8	2260000070	Switch
					S9	2260000070	Switch
L1	6180000900	Coil	LAL 03NA 101K				
L2	6180000900	Coil	LAL 03NA 101K		S10	2260000070	Switch
L3	6180000900	Coil	LAL 03NA 101K		S11	2260000070	Switch
L4	6180000900	Coil	LAL 03NA 101K		S12	2260000070	Switch
		Coil	LAL 03NA 101K		S12 S13	2260000070	Switch
L5	6180000900				S13 S14	2260000070	Switch
L6	6180000900	Coil	LAL 03NA 101K				
L7	6180000900	Coil	LAL 03NA 101K		S15	2260000070	Switch
L8	6180000900	Coil	LAL 03NA 101K		S16	2260000070	Switch
					S17	2260000060	Switch
					S18	2260000060	Switch
R1	7210001320		RK124221002DA (AF/SQL)		S19	2260000060	Switch
R2	7210001550	Variable Resistor	RK1242210032A 10KB •		S20	2260000070	Switch
			10KB (MIC/RF PWR)		S21	2260000070	Switch
R3	7010004030	Resistor	R20J 47 Ω		S22	2260000070	Switch
R4	7010004190	Resistor	R20J 1 kΩ		S23	7600000100	Switch
R5	7010003280	Resistor	ELR20J 100 Ω				
R6	7010003280	Resistor	ELR20J 100 Ω				
R7	7010004720	Resistor	R50XJ 100 Q				
R8	7010004720	Resistor	R50XJ 100 Ω	I	EP1	0910019544	P.C. Board
R9	7010003400	Resistor	ELR20J 1 kΩ		EP2	0910019524	P.C. Board
R10	7010003520	Resistor	ELR20J 8.2 kΩ	1	EP3	0910019550	P.C. Board
R11	7010003480	Resistor	ELR20J 4.7 k Ω	1	EP4	0910006330	Flexible Cable
R12	7010003400	Resistor	ELR20J 1 k Ω		EP5	0910019931	P.C. Board
R13	7010004250	Resistor	R20J 3.3 kΩ		EP9	6910000630	Ferrite Bead
R14	7010004230	Resistor	R20J 10 kΩ		EP10	6910000630	Ferrite Bead
			R20J 10 kΩ	1	EP11	6910000630	Ferrite Bead
R15	7010004320	Resistor			EFII	0910000000	renne beau
R16	7010004480	Resistor	R20J 180 kΩ				
R17	7010004410	Resistor	R20J 47 kΩ				
R18	7010004320	Resistor	R20J 10 kΩ				
R19	7010004320	Resistor	R20J 10 kΩ				
R20	7010004170	Resistor	R20J 680 Ω				
R21	7010004320	Resistor	R20J 10 kΩ				
R22	7010004320	Resistor	R20J 10 kΩ				
R23	7210000570	Variable Resistor	RK1631110D5FA (RIT)				
R24	7010004320	Resistor	R20J 10 kΩ				
R25	7010001400	Resistor	R25J 100 kΩ				
R26	7010004450	Resistor	R20J 100 kΩ				

[MAIN UNIT]

REF. NO.	ORDER NO.		DESCRIPTION	REF. NO.	ORDER NO.		DESCRIPTION
IC1	1790000050	IC	ND487C1-3R	Q66	1590000340	Transistor	RN1202
IC2	1110001310	iC	μΡC577HA	Q67	1590000360	Transistor	RN2202
	1		,		1000000000		
IC4	1110000330	IC	M5218L				
IC5	1110001320	I IC	μPC1037HA				
IC6	1110001320	IC	uPC1037HA	D1	1710000050	Diode	18853
			GD4066B	D2	1710000050	Diode	1SS53
IC8	1130003900	IC					
IC9	1110000890	IC	μPC1241H	D3	1710000050	Diode	1SS53
IC10	1110000330	IC	M5218L	D4	1710000050	Diode	18853
IC11	1110000330	IC	M5218L	D5	1710000050	Diode	1\$\$53
	1	1		1 1	1	1	
IC13	1130003880	IC	GD4011B	D6	1710000050	Diode	15853
IC14	1180000470		NJM7808A	D7	1710000050	Diode	18853
IC15	1110000290	IC	BA618	D8	1710000050	Diode	18853
	1			D9	1710000050	Diode	1SS53
IC16	1120000970	IC	M54562P		1	1	
				D10	1710000160	Diode	155133
				D11	1710000160	Diode	1SS133
Q1	1530000810	Transistor	2SC2053	D12	1710000330	Diode	1K60
		1				1	
Q2	1580000100	FET	3SK74 K	D13	1710000330	Diode	1K60
Q3	1580000100	FET	3SK74 K	D14	1710000160	Diode	1SS133
Q4	1530000810	Transistor	2SC2053	D15	1710000050	Diode	1\$\$53
	1	1				Diode	15553
Q5	1520000230	Transistor	2SB909M Q	D16	171000050	F	
Q6	1590000340	Transistor	RN1202	D17	1710000160	Diode	1SS133
Q7	1560000100	FET	2SK241-Y	D18	1710000050	Diode	1SS53
Q8	1560000130	FET	2SK125	D19	1710000050	Diode	1SS53
	1	1			1	4	18853
Q9	1560000130	FET	2SK125	D20	171000050	Diode	
Q10	1590000360	Transistor	RN2202	D21	1710000050	Diode	1SS53
Q11	1530000110	Transistor	2SC2458-GR	D22	1710000160	Diode	155133
				D23	1710000050	Diode	15553
Q12	1590000340	Transistor	RN1202	1 1			
Q13	1560000130	FET	2SK125	D24	1710000050	Diode	18853
Q14	1560000130	FET	2SK125	D25	1710000050	Diode	1SS53
Q15	1580000110	FET	3SK74 M	D26	1710000050	Diode	1SS53
		(1	1	155133
Q16	1560000080	FET	2SK192A-Y	D27	1710000160	Diode	
Q17	151000080	Transistor	2SA1048-GR	D28	1710000050	Diode	18853
Q18	1530000110	Transistor	2SC2458-GR	D29	1710000050	Diode	1SS53
Q19	1530000110	Transistor	2SC2458-GR	D30	1710000050	Diode	1SS53
	1	1		1 1	1	1	
Q20	1590000360	Transistor	RN2202	D31	1710000050	Diode	18853
Q21	1580000110	FET	3SK74 M	D32	1710000050	Diode	18853
Q22	1560000100	FET	2SK241-Y	D33	1710000050	Diode	18853
				D34	1710000160	Diode	1SS133
Q23	1590000340	Transistor	RN1202		4	1	
Q24	1590000360	Transistor	RN2202	D35	1710000050	Diode	1SS53
Q25	1590000360	Transistor	RN2202	D36	1710000050	Diode	1SS53
Q26	1530000110	Transistor	2SC2458-GR	D37	1710000050	Diode	1\$\$53
						1	1\$\$53
Q27	1580000110	FET	3SK74 M	D38	1710000050	Diode	
Q28	1560000100	FET	2SK241-Y	D39	1710000050	Diode	1SS53
Q29	1530000110	Transistor	2SC2458-GR	D40	1710000050	Diode	1\$\$53
Q30	1	Transistor	2SC2458-GR	D41	1710000050	Diode	1SS53
	1530000110	1				1	
Q31	1530000110	Transistor	2SC2458-GR	D42	1710000050	Diode	1\$\$53
Q32	1590000340	Transistor	RN1202	D43	1710000050	Diode	1SS53
Q33	1590000350	Transistor	RN1204	D44	1710000050	Diode	1\$\$53
	1	1		D45	1710000050	Diode	18853
Q34	1590000340	Transistor	RN1202	1 1	1	1	
Q35	1530000110	Transistor	2SC2458-GR	D46	1710000050	Diode	1\$\$53
Q36	1530000110	Transistor	2SC2458-GR	D47	1710000050	Diode	18853
Q37	1530000110	Transistor	2SC2458-GR	D48	1710000050	Diode	1SS53
							15553
Q38	151000080	Transistor	2SA1048-GR	D49	171000050	Diode	
Q39	1590000350	Transistor	RN1204	D50	1710000050	Diode	18853
Q40	1530000110	Transistor	2SC2458-GR	D51	1710000050	Diode	18853
Q41	1590000360	Transistor	RN2202	D52	1710000050	Diode	18853
						ſ	
Q42	1530000110	Transistor	2SC2458-GR	D55	1710000160	Diode	155133
Q44	1530000110	Transistor	2SC2458-GR	D56	1710000330	Diode	1K60
Q45	1530000110	Transistor	2SC2458-GR	D57	1710000160	Diode	155133
	1	1	2SD468C	D58	1710000160	Diode	155133
Q46	1540000070	Transistor			1	1	
Q47	1540000070	Transistor	2SD468C	D59	1710000330	Diode	1K60
Q48	1540000150	Transistor	2SD1225M R	D60	1710000330	Diode	1K60
Q49	1530000110	Transistor	2SC2458-GR	D61	1710000160	Diode	1SS133
	1			1 1			
Q50	1530000110	Transistor	2SC2458-GR	D62	1710000330	Diode	1K60
Q51	1590000340	Transistor	RN1202	D63	1710000050	Diode	1\$\$53
Q52	1540000150	Transistor	2SD1225M R	D64	1710000160	Diode	155133
					1	i	188133
Q53	151000080	Transistor	2SA1048-GR	D65	1710000160	Diode	
Q54	1590000350	Transistor	RN1204	D66	1710000160	Diode	15\$133
Q55	1590000350	Transistor	RN1204	D67	1710000050	Diode	1\$\$53
Q56	1530000110	Transistor	2SC2458-GR	D68	1710000050	Diode	1\$\$53
	1			1 1	1	1	
Q61	1540000150	Transistor	2SD1225M R	D69	1710000050	Diode	1SS53
262	1520000230	Transistor	2SB909M Q	D70	1710000050	Diode	1SS53
263	1540000150	Transistor	2SD1225M R	D71	1710000050	Diode	1SS53
264	1590000340	Transistor	RN1202	D72	1710000160	Diode	155133
265	1590000340	Transistor	RN1202	D73	1710000160	Diode	1SS133

[MAIN UNIT]

L34 L35 L36 L37 L38 L39 L40 L41 L42 L43 L44 L45 L46 L47 L48 L49 L50 L51 L52 L53 L54 L55 L56 L57 L58 L59 L60 L61 L62 L63 L64 L65 L66 L67 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82 L83 L85 L86 L87 L88 L89 L90 L91 L92 L93 L94 L95 L96 L97 L98 L99 L100 L101 L102 L103 L104 L111 L112 L114 L115 L116

RF. NO. ORD. DESCRIPTION D75 171000160 Diode 1SS133 D76 171000160 Diode 1SS133 D77 171000160 Diode 1SS133 D78 171000160 Diode 1SS133 D79 171000160 Diode 1SS133 D80 173000160 Diode 1SS133 D81 171000160 Diode 1SS133 D82 171000160 Diode 1SS133 D84 171000160 Diode 1SS133 D85 171000160 Diode 1SS133 D86 171000160 Diode 1SS133 D87 171000160 Diode 1SS133 D91 171000160 Diode 1SS133 D92 171000160 Diode 1SS133 D93 171000160 Diode 1SS133 D94 171000160 Diode 1SS133 D95 171000160 Diode 1SS133		UNIT		
D76 1710000160 Diode 1SS133 D77 1710000160 Diode 1SS133 D78 1710000160 Diode ISS133 D79 1710000160 Diode ISS133 D80 173000070 Zener R03.96 B2 D81 1710000160 Diode ISS133 D82 1710000160 Diode ISS133 D83 1710000160 Diode ISS133 D84 1710000160 Diode ISS133 D85 1710000160 Diode ISS133 D86 1710000160 Diode ISS133 D90 1710000160 Diode ISS133 D91 1710000160 Diode ISS133 D93 1710000160 Diode ISS133 D94 1710000160 Diode ISS133 D95 1710000160 Diode ISS133 D96 1710000160 Diode ISS133 D97 1710000160 Diode				DESCRIPTION
D76 171000160 Diode 1SS133 D77 171000160 Diode 1SS133 D78 171000160 Diode 1SS133 D80 173000070 Zener R03.96 B2 D81 171000160 Diode 1SS133 D82 171000160 Diode ISS133 D83 171000160 Diode ISS133 D84 171000160 Diode ISS133 D85 171000160 Diode ISS133 D86 171000160 Diode ISS133 D87 171000160 Diode ISS133 D90 171000160 Diode ISS133 D91 171000160 Diode ISS133 D93 1710000160 Diode ISS133 D94 1710000160 Diode ISS133 D95 1710000160 Diode ISS133 D96 1710000160 Diode ISS133 D102 1710000160 Diode ISS13	D75	1710000160	Diode	1SS133
D77 171000160 Diode 1SS133 D78 171000160 Diode 1SS133 D79 171000160 Diode 1SS133 D80 173000070 Zener PD3.9E B2 D81 171000160 Diode 1SS133 DB3 D82 171000160 Diode ISS133 DB4 D84 171000160 Diode ISS133 DB5 D86 171000160 Diode ISS133 DB6 D86 171000160 Diode ISS133 DB7 D87 171000160 Diode ISS133 DB9 D91 171000160 Diode ISS133 DB9 D91 171000160 Diode ISS133 DB9 D94 171000160 Diode ISS133 DB9 D94 171000160 Diode ISS133 DB9 D94 171000160 Diode ISS133 DB9 D102 171000160 Diode ISS133 D102 D103 171000050 Diode ISS53				1
D78 171000160 Diode 1SS133 D79 171000160 Diode ISS133 D80 173000070 Zener RD3.9F B2 D81 171000160 Diode ISS133 D83 171000160 Diode ISS133 D84 171000160 Diode ISS133 D85 171000160 Diode ISS133 D86 171000160 Diode ISS133 D87 171000160 Diode ISS133 D88 171000160 Diode ISS133 D90 171000160 Diode ISS133 D91 171000160 Diode ISS133 D92 171000160 Diode ISS133 D93 171000160 Diode ISS133 D94 1710000160 Diode ISS133 D95 1710000160 Diode ISS133 D96 1710000160 Diode ISS133 D101 1710000050 Diode			Diode	1SS133
DB0 1730000070 Zener PD3 9E B2 DB1 171000160 Diode 1SS133 DB2 171000160 Diode 1SS133 DB3 171000160 Diode ISS133 DB4 171000160 Diode ISS133 DB5 171000160 Diode ISS133 DB6 171000160 Diode ISS133 DB7 171000160 Diode ISS133 DB8 171000160 Diode ISS133 D90 171000160 Diode ISS133 D91 171000160 Diode ISS133 D92 171000160 Diode ISS133 D93 171000160 Diode ISS133 D94 1710000160 Diode ISS133 D95 1710000160 Diode ISS133 D96 1710000160 Diode ISS53 D101 1710000050 Diode ISS53 D103 1710000050 Diode ISS53			1	1SS133
DB1 1710000160 Diode 1SS133 DB2 1710000160 Diode ISS133 DB3 1710000160 Diode ISS133 DB4 1710000160 Diode ISS133 DB5 1710000160 Diode ISS133 DB6 1710000160 Diode ISS133 DB7 1710000160 Diode ISS133 DB9 1710000160 Diode ISS133 D91 1710000160 Diode ISS133 D93 1710000160 Diode ISS133 D94 1710000160 Diode ISS133 D95 1710000160 Diode ISS133 D96 1710000160 Diode ISS133 D97 1710000160 Diode ISS53 D102 1710000160 Diode ISS53 D103 171000050 Diode ISS53 D104 171000050 Diode ISS53 D105 171000050 Diode <td< td=""><td>D79</td><td>1710000160</td><td>Diode</td><td>1SS133</td></td<>	D79	1710000160	Diode	1SS133
B82 1710000160 Diode 1SS133 B83 1710000160 Diode ISS133 B84 1710000160 Diode ISS133 B85 1710000160 Diode ISS133 B86 1710000160 Diode ISS133 B87 1710000160 Diode ISS133 B89 1710000160 Diode ISS133 B90 1710000160 Diode ISS133 B91 1710000160 Diode ISS133 D92 1710000160 Diode ISS133 D93 1710000160 Diode ISS133 D94 1710000160 Diode ISS133 D95 1710000160 Diode ISS133 D96 1710000160 Diode ISS133 D97 1710000160 Diode ISS53 D101 1710000500 Diode ISS53 D104 1710000500 Diode ISS53 D106 1710000500 Filter	D80	1730000070	Zener	RD3.9E B2
D83 171000160 Diode 1SS133 D84 171000160 Diode 1SS133 D85 171000160 Diode 1SS133 D86 171000160 Diode 1SS133 D87 171000160 Diode 1SS133 D88 171000160 Diode 1SS133 D90 171000160 Diode 1SS133 D91 171000160 Diode 1SS133 D93 171000160 Diode 1SS133 D94 171000160 Diode 1SS133 D94 171000160 Diode 1SS133 D95 171000160 Diode 1SS133 D96 171000160 Diode 1SS53 D97 171000050 Diode 1SS53 D103 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 171000050 Diode 1SS133 D106 1SS133 D107 <td< td=""><td>D81</td><td>1710000160</td><td>Diode</td><td>1SS133</td></td<>	D81	1710000160	Diode	1SS133
D84 171000160 Diode 1SS133 D85 171000160 Diode 1SS133 D86 171000160 Diode 1SS133 D87 171000160 Diode 1SS133 D88 171000160 Diode 1SS133 D89 171000160 Diode 1SS133 D91 171000160 Diode 1SS133 D92 171000160 Diode 1SS133 D93 171000160 Diode 1SS133 D94 171000160 Diode 1SS133 D95 171000160 Diode 1SS133 D96 171000160 Diode 1SS133 D97 1710000160 Diode 1SS133 D96 1710000160 Diode 1SS53 D103 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 171000050 Diode 1SS133 D106 1710000050 Diode 1SS133 <td>D82</td> <td>1710000160</td> <td>Diode</td> <td>155133</td>	D82	1710000160	Diode	155133
D85 171000160 Diode 1SS133 D86 171000160 Diode 1SS133 D87 171000160 Diode 1SS133 D88 171000160 Diode 1SS133 D89 171000160 Diode 1SS133 D90 171000160 Diode 1SS133 D91 171000160 Diode 1SS133 D92 171000160 Diode 1SS133 D93 171000160 Diode 1SS133 D94 171000160 Diode 1SS133 D95 171000160 Diode 1SS133 D96 171000160 Diode 1SS133 D97 1710000160 Diode 1SS53 D102 171000050 Diode 1SS53 D103 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 171000050 Diode 1SS133 D106 1710000160 Diode 1SS133	D83	1710000160	Diode	1SS133
D86 171000160 Diode 1SS133 D87 171000160 Diode 1SS133 D88 171000160 Diode 1SS133 D90 171000160 Diode 1SS133 D91 171000160 Diode 1SS133 D92 171000160 Diode 1SS133 D93 171000160 Diode 1SS133 D94 171000160 Diode 1SS133 D95 171000160 Diode 1SS133 D96 171000160 Diode 1SS133 D97 171000160 Diode 1SS133 D98 171000160 Diode 1SS53 D101 1710000050 Diode 1SS53 D102 171000050 Diode 1SS53 D103 1710000160 Diode 1SS53 D104 1710000160 Diode 1SS133 D107 1710000160 Diode 1SS133 D106 1710000160 Diode 1SS133<	D84	1710000160	Diode	1SS133
D87 171000160 Diode 1SS133 D88 171000160 Diode 1SS133 D89 171000160 Diode 1SS133 D90 171000160 Diode 1SS133 D91 171000160 Diode 1SS133 D92 171000160 Diode 1SS133 D93 171000160 Diode 1SS133 D94 171000160 Diode 1SS133 D95 171000160 Diode 1SS133 D96 171000160 Diode 1SS53 D98 171000160 Diode 1SS53 D101 171000050 Diode 1SS53 D102 171000050 Diode 1SS53 D103 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 171000050 Diode 1SS133 D107 171000050 Diode 1SS133 D107 1710000160 Diode 1SS133	D85	1710000160	Diode	1SS133
D88 171000160 Diode 1SS133 D89 171000160 Diode 1SS133 D91 171000160 Diode 1SS133 D91 171000160 Diode 1SS133 D92 171000160 Diode 1SS133 D93 171000160 Diode 1SS133 D94 171000160 Diode 1SS133 D95 171000160 Diode 1SS133 D96 171000160 Diode 1SS133 D97 171000160 Diode 1SS133 D98 171000160 Diode 1SS53 D101 171000050 Diode 1SS53 D103 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 171000050 Diode 1SS53 D106 171000050 Diode 1SS133 D107 171000050 Filter 9M15A (FL-23) F13 2010000270 Filter 9M5	D86	1710000160	Diode	1SS133
D89 171000160 Diode 1SS133 D90 171000160 Diode 1SS133 D91 171000160 Diode 1SS133 D92 171000160 Diode 1SS133 D93 171000160 Diode 1SS133 D94 171000160 Diode 1SS133 D95 171000160 Diode 1SS133 D96 171000160 Diode 1SS133 D97 171000160 Diode 1SS133 D98 171000160 Diode 1SS53 D101 171000050 Diode 1SS53 D102 171000050 Diode 1SS53 D103 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 171000050 Diode 1SS53 D106 171000050 Filter 70M158 (FL-64) F12 201000270 Filter 9M5A (FL-23) F14 2010000250 Coil <t< td=""><td>D87</td><td>1710000160</td><td>Diode</td><td>1SS133</td></t<>	D87	1710000160	Diode	1SS133
D90 1710000160 Diode 1SS133 D91 171000160 Diode 1SS133 D92 171000160 Diode 1SS133 D93 171000160 Diode 1SS133 D94 171000160 Diode 1SS133 D95 171000160 Diode 1SS133 D96 171000160 Diode 1SS133 D97 1710000160 Diode 1SS133 D98 1710000160 Diode 1SS53 D102 1710000050 Diode 1SS53 D103 1710000050 Diode 1SS53 D104 170000050 Diode 1SS53 D105 1710000050 Diode 1SS53 D106 1710000050 Diode 1SS133 D107 171000050 Diode 1SS133 D106 171000050 Filter 9M15A<(FL-23)	D88	1710000160	Diode	1SS133
D91 1710000160 Diode 1SS133 D92 1710000160 Diode 1SS133 D93 171000160 Diode 1SS133 D94 171000160 Diode 1SS133 D95 171000160 Diode 1SS133 D96 1710000160 Diode 1SS133 D97 1710000160 Diode 1SS133 D99 1710000160 Diode 1SS133 D99 171000050 Diode 1SS53 D102 171000050 Diode 1SS53 D103 171000050 Diode 1SS53 D104 1SS53 D105 171000050 Diode 1SS53 D106 1710000160 Diode 1SS53 D106 1710000160 Diode 1SS53 D107 1710000160 Diode 1SS133 D17 1710000160 F11 2010000270 Filter 9M15A (FL-64) F12 2010000270 Filter	D89	1710000160	Diode	1SS133
D92 1710000160 Diode 1SS133 D93 1710000160 Diode 1SS133 D94 171000160 Diode 1SS133 D95 171000160 Diode 1SS133 D96 1710000160 Diode 1SS133 D97 1710000160 Diode 1SS133 D97 1710000160 Diode 1SS133 D99 1710000160 Diode 1SS53 D101 1710000050 Diode 1SS53 D102 1710000050 Diode 1SS53 D103 1710000050 Diode 1SS53 D104 1710000050 Diode 1SS53 D105 1710000050 Diode 1SS133 D106 1710000160 Diode 1SS133 D107 171000050 Filter 9M15A (FL-23) F11 2010000270 Filter 9M2D2 (FL-30) F13 2010000250 Coil LAL L1 6180002900 Coil	D90	1710000160	Diode	1SS133
D93 1710000160 Diode 1SS133 D94 1710000160 Diode 1SS133 D95 1710000160 Diode 1SS133 D96 1710000160 Diode 1SS133 D97 1710000160 Diode 1SS133 D98 1710000160 Diode 1SS133 D99 171000050 Diode 1SS53 D102 171000050 Diode 1SS53 D103 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 171000050 Diode 1SS53 D106 171000050 Diode 1SS53 D107 171000050 Diode 1SS133 D107 171000050 Filter 9M15A (FL-64) F12 2010000320 Filter 9M15A (FL-64) F13 201000020 Filter 9M15A F14 2010000250 Coil LA L1 618000250 Coil	D91	1710000160	Diode	1SS133
D94 1710000160 Diode 1SS133 D95 1710000160 Diode 1SS133 D96 1710000160 Diode 1SS133 D97 1710000160 Diode 1SS133 D99 1710000160 Diode 1SS133 D99 171000050 Diode 1SS53 D102 171000050 Diode 1SS53 D103 171000050 Diode 1SS53 D104 1SS53 Diode 1SS53 D105 171000050 Diode 1SS53 D106 171000050 Diode 1SS53 D107 1710000160 Diode 1SS133 D107 1710000160 Diode 1SS133 D107 1710000160 Filter 9M15A (FL-23) F12 2010000270 Filter 9M15A (FL-23) F13 2010000270 Filter 9M6A1 (FL-116) X1 6050001800 Coil LR-20 L2 618000250 Coil <td>D92</td> <td>1710000160</td> <td>Diode</td> <td>1SS133</td>	D92	1710000160	Diode	1SS133
D95 171000160 Diode 1SS133 D96 171000160 Diode 1SS155 D97 1710000160 Diode 1SS133 D99 171000160 Diode 1SS133 D99 1710000160 Diode 1SS133 D99 171000050 Diode 1SS53 D102 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 171000050 Diode 1SS53 D106 171000050 Diode 1SS53 D107 171000050 Diode 1SS53 D107 171000050 Filter 70M15B (FL-64) F12 2010000320 Filter 9M15A (FL-23) F13 2010000320 Filter 9M6A1 (FL-116) X1 6050001800 Crystal CR-49 L1 614000250 Coil LAL 02NA R27K L3 618000960 Coil LAL 03NA 586K L5 618000960 <	D93	1710000160	Diode	
D96 1710000160 Diode 1S133 D97 1710000160 Diode 1S1555 D98 171000160 Diode 1S133 D99 171000050 Diode 1S553 D101 171000050 Diode 1S553 D102 171000050 Diode 1S553 D103 171000050 Diode 1S553 D104 171000050 Diode 1S553 D105 171000050 Diode 1S533 D106 1710000160 Diode 1S5133 D107 1710000160 Cide 1S61404 F14 2010000270 Filter <	D94	1710000160	Diode	1SS133
D97 171000030 Diode 1S1555 D98 1710000160 Diode 1SS133 D99 171000050 Diode 1SS133 D101 171000050 Diode 1SS53 D102 171000050 Diode 1SS53 D103 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 171000050 Diode 1SS53 D106 171000050 Diode 1SS53 D106 171000050 Diode 1SS133 D107 171000050 Filter 9M15A (FL-23) F11 2010000270 Filter 9M15A (FL-23) F13 2010000270 Filter 9M15A (FL-30) F14 2010000250 Coil LAL 02NA R27K L3 618000260 Coil LAL 02NA R33K L4 618000260 Coil LAL 03NA 102K L5 618000260 Coil LA-245 L4 618000260 Coil LA-245 L5 618000160 Coil LA	D95	1710000160	Diode	1SS133
D98 171000160 Diode 1SS133 D99 1710000160 Diode 1SS133 D101 171000050 Diode 1SS53 D102 171000050 Diode 1SS53 D103 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 1710000160 Diode 1SS53 D106 1710000160 Diode 1SS53 D107 1710000160 Diode 1SS133 D107 1710000050 Filter 9M15A (FL-23) F13 2010000270 Filter 9M5A1 (FL-164) F14 2010000250 Coil LA 02NA R3X L1 614000250 Coil LA 02NA R3X L2	D96	1710000160	Diode	1SS133
D99 171000160 Diode 1SS133 D101 171000050 Diode 1SS53 D102 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 171000050 Diode 1SS53 D106 1710000160 Diode 1SS133 D107 1710000160 Filter 9M15A (FL-23) F11 201000020 Filter 9M6A1 (FL-164) F12 201000020 Coil LAL 02NA R33K L4 618000120 Coil LAL 02NA R33K L4 618000250	D97	1710000030	Diode	1S1555
D101 1710000050 Diode 1SS53 D102 1710000050 Diode 1SS53 D103 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 171000050 Diode 1SS53 D106 1710000160 Diode 1SS133 D107 1710000160 Diode 1SS133 D107 1710000270 Filter 9M15A (FL-23) F13 2010000220 Filter 9M6A1 (FL-164) F14 2010000950 Filter 9M6A1 (FL-164) X1 6050001800 Crystal CR-49 L1 6140000250 Coil LAL 02NA R3K L4 618000250 Coil LAL 03NA 5R6K L5 618000960 Coil LAL 03NA 5R6K L5 618000950 Coil LA2 03NA 102K L6 614000250 Coil LA2 03NA 102K L6 614000250 Coil LA2 03NA 102K L6 618000990 Coil LA2 03NA 102K L1 618000990	D98	1710000160	Diode	1SS133
D102 1710000050 Diode 1SS53 D103 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 1710000160 Diode 1SS53 D106 1710000160 Diode 1SS133 D107 1710000160 Diode 1SS133 D107 1710000160 Diode 1SS133 FI1 2010000270 Filter 9M15A (FL-23) FI3 2010000320 Filter 9M6A1 (FL-10) X1 6050001800 Crystal CR-49 X1 6050001800 Crystal CR-49 L1 614000080 Coil LR-20 L2 6180002520 Coil LAL 02NA R3K L3 618000290 Coil LAL 03NA 5R6K L5 618000250 Coil LR-24 L7 6150001770 Coil LR-245 L9 618000200 Coil LA-247 L1 618000200 Coil LA-247 L1 618000090 Coil LA-237 <	D99	1710000160	Diode	1SS133
D102 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 171000050 Diode 1SS53 D106 1710000160 Diode 1SS53 D107 1710000160 Diode 1SS133 D107 1710000160 Diode 1SS133 FI1 2010000270 Filter 9M15A (FL-23) F13 2010000320 Filter 9M6A1 (FL-116) X1 6050001800 Crystal CR-49 L1 614000080 Coil LR-20 L2 6180002520 Coil LAL 02NA R27K L3 6180001290 Coil LR-20 L4 618000250 Coil LAL 03NA 5R6K L5 618000250 Coil LR-24 L7 6150001770 Coil LR-245 L9 618000710 Coil LA-247 L10 6110001640 Coil LA-247 L11 618000710 Coil LA-237 </td <td></td> <td></td> <td>Diode</td> <td>1SS53</td>			Diode	1SS53
D103 1710000050 Diode 1SS53 D104 171000050 Diode 1SS53 D105 171000160 Diode 1SS133 D107 171000160 Diode 1SS133 D107 171000160 Diode 1SS133 D107 1710000160 Diode 1SS133 D107 1710000160 Filter 70M158 (FL-64) F12 2010000270 Filter 9M15A (FL-23) F13 2010000320 Filter 9M2D2 (FL-30) F14 201000080 Crystal CR-49 X1 6050001800 Crystal CR-49 X1 6050001800 Coil LAL 02NA R27K L3 6180002520 Coil LAL 03NA 5R6K L5 6180000960 Coil LAL 03NA 102K L6 6140002050 Coil LAL 03NA 102K L6 6140002050 Coil LA-245 L9 6180000900 Coil LA-237 L1 6180000900 Coil LA-237 L14 6180000900 Coil		1710000050	Diode	1\$\$53
D105 171000050 Diode 1SS53 D106 1710000160 Diode 1SS133 D107 1710000160 Diode 1SS133 FI1 2010000270 Filter 9M15A (FL-64) FI2 2010000320 Filter 9M2D2 (FL-30) FI3 201000050 Filter 9M6A1 (FL-116) X1 6050001800 Crystal CR-49 L1 614000080 Coil LA 02NA R37K L3 6180002520 Coil LA 02NA R33K L4 618000250 Coil LA 02NA R33K L4 618000250 Coil LA 03NA 5R6K L5 618000250 Coil LA-224 L7 615000170 Coil LA-23NA 102K L6 614000250 Coil LA-247 L9 618000900 Coil LA-237 L1 618000900 Coil LA-237 L1 618000690 Coil LA-237 L3 618000170 Coil LA-237 L4 6180000690 Coil LA	D103	1710000050	Diode	18853
D106 1710000160 Diode 1SS133 D107 1710000160 Diode 1SS133 FI1 2010000270 Filter 9M15A (FL-23) FI3 201000020 Filter 9M22D2 (FL-30) FI4 2010000950 Filter 9M6A1 (FL-116) X1 6050001800 Crystal CR-49 L1 614000080 Coil LAL 02NA R27K L3 618000250 Coil LAL 02NA R33K L4 618000250 Coil LAL 03NA 5R6K L5 6180002050 Coil LAL 03NA 102K L6 6140002050 Coil LAL 03NA 102K L6 6140002050 Coil LA-247 L7 6150001770 Coil LA-247 L1 6110001620 Coil LA-247 L1 6180000900 Coil LA-247 L1 6110001570 Coil LA-237 L12 6180002430 Coil LA-247 L13 618000024	D104	1710000050	Diode	1SS53
D107 1710000160 Diode 1SS133 F11 2010000270 Filter 70M15B (FL-64) F12 2010000320 Filter 9M15A (FL-23) F14 2010000950 Filter 9M22D2 (FL-30) F14 201000080 Crystal CR-49 X1 6050001800 Crystal CR-49 L1 614000080 Coil LAL 02NA R27K L3 6180002500 Coil LAL 02NA R33K L4 618000960 Coil LAL 03NA 786K L5 618000960 Coil LAL 03NA 102K L6 6140002050 Coil LAL 03NA 102K L6 6140002050 Coil LA-245 L5 618000900 Coil LA-247 L1 6110001620 Coil LA-247 L1 6110001640 Coil LA-247 L1 6180000900 Coil LAL 03NA R33M L13 6180000900 Coil LA-247 L14 615	D105	1710000050	Diode	1SS53
FI1 2010000500 Filter 70M15B (FL-64) FI2 2010000270 Filter 9M15A (FL-23) FI3 2010000320 Filter 9M6A1 (FL-30) FI4 201000950 Filter 9M6A1 (FL-16) X1 6050001800 Crystal CR-49 L1 614000080 Coil LAL 02NA R27K L3 6180001290 Coil LAL 02NA R33K L4 618000960 Coil LAL 03NA 786K L5 618000960 Coil LAL 03NA 702K L6 6140002050 Coil LAL 03NA 102K L6 6140002050 Coil LAL 03NA 102K L6 6140002050 Coil LAL 03NA 102K L6 6140002050 Coil LAL 247 L7 6150001770 Coil LA-247 L1 6110001620 Coil LA-247 L1 6180000900 Coil LAL 03NA R33M L12 6180000900 Coil LA-247 L14 6150002430 Coil LA-247 L15 61500024	D106	1710000160	Diode	1SS133
F12 2010000270 Filter 9M15A (FL-23) F13 2010000320 Filter 9M22D2 (FL-30) F14 2010000950 Filter 9M6A1 (FL-116) X1 6050001800 Crystal CR-49 L1 614000080 Coil LR-20 L2 6180002520 Coil LAL 02NA R27K L3 618000260 Coil LAL 02NA R33K L4 618000960 Coil LAL 03NA 5R6K L5 618000900 Coil LAL 03NA 102K L6 6140002050 Coil LAL 03NA 102K L6 6140002050 Coil LA-245 L9 618000900 Coil LA-247 L11 6110001620 Coil LA-237 L12 618000710 Coil LA-237 L12 6180000900 Coil LA-237 L12 618000260 Coil LA-237 L12 618000260 Coil LA-237 L14 6150002430 Coil LA-237 L12 6180000900 Coil	D107	1710000160	Diode	1SS133
FI2 2010000270 Filter 9M15A (FL-23) FI3 2010000320 Filter 9M22D2 (FL-30) FI4 2010000950 Filter 9M6A1 (FL-116) X1 6050001800 Crystal CR-49 L1 614000080 Coil LA L2 6180002520 Coil LAL 02NA R27K L3 618000290 Coil LAL 02NA R33K L4 6180000960 Coil LAL 03NA 5R6K L5 6180000960 Coil LAL 03NA 102K L6 6140002050 Coil LA-245 L9 6180000900 Coil LA-247 L1 6110001620 Coil LA-247 L1 6110001640 Coil LA-237 L12 6180000910 Coil LA-237 L12 6180000900 Coil LA-237 L13 618000260 Coil LA-237 L14 6150002430 Coil LS-254 L13 618000260 Coil LA-237 L14 6150002430 Coil L				
FI2 2010000270 Filter 9M15A (FL-23) FI3 2010000320 Filter 9M22D2 (FL-30) FI4 2010000950 Filter 9M6A1 (FL-116) X1 6050001800 Crystal CR-49 L1 614000080 Coil LR-20 L2 6180002520 Coil LAL 02NA R27K L3 618000290 Coil LAL 02NA R33K L4 618000960 Coil LAL 03NA 5R6K L5 618000900 Coil LAL 03NA 102K L6 6140002050 Coil LAL 03NA 102K L8 6110001620 Coil LA-245 L9 6180000900 Coil LAL 03NA 101K L10 6110001640 Coil LA-247 L11 6110001640 Coil LA-237 L12 6180000900 Coil LAL 03NA R33M L13 6180000900 Coil LAL 03NA R33M L14 6150002430 Coil LA-247 L11 6110001640 Coil LA-237 L14 6150002430				
Fi3 2010000320 Filter 9M22D2 (FL-30) Fi4 2010000950 Filter 9M6A1 (FL-116) X1 6050001800 Crystal CR-49 L1 614000080 Coil LR-20 L2 6180002520 Coil LAL 02NA R27K L3 6180002520 Coil LAL 02NA R37K L4 618000860 Coil LAL 03NA 5R6K L5 618000960 Coil LAL 03NA 5R6K L6 6140002050 Coil LA-245 L9 618000900 Coil LA-245 L9 618000900 Coil LA-247 L11 6110001620 Coil LA-237 L12 6180000900 Coil LA-237 L12 6180000710 Coil LA-247 L12 6180000710 Coil LA-237 L13 6180000690 Coil LS-254 L14 6150002430 Coil LS-254 L17 6150002430 Coil LS-255 L20 6180000900 Coil LS-256<	FI1	2010000500	Filter	
FI4 2010000950 Filter 9M6A1 (FL-116) X1 6050001800 Crystal CR-49 L1 614000080 Coil LR-20 L2 6180002520 Coil LAL 02NA R27K L3 6180001290 Coil LAL 02NA R33K L4 618000860 Coil LAL 03NA 5R6K L5 618000250 Coil LAL 03NA 102K L6 6140002050 Coil LR-224 L7 6150001770 Coil LS-198 L8 6110001620 Coil LA-245 L9 6180000900 Coil LA-247 L11 6110001640 Coil LA-247 L11 6110001570 Coil LA-237 L12 6180000900 Coil LAL 03NA R33M L13 6180000900 Coil LS-254 L17 6150002430 Coil LS-254 L17 615000260 Coil LR-225 L18 6140002060 Coil LR-225 L19 6140002060 Coil LS-175 <td>FI2</td> <td>2010000270</td> <td>Filter</td> <td>9M15A (FL-23)</td>	FI2	2010000270	Filter	9M15A (FL-23)
X1 6050001800 Crystal CR-49 L1 614000080 Coil LR-20 L2 6180002520 Coil LAL 02NA R27K L3 6180001290 Coil LAL 02NA R33K L4 6180000860 Coil LAL 03NA 5R6K L5 618000250 Coil LAL 03NA 5R6K L5 618000250 Coil LR-224 L7 6150001770 Coil LS-198 L8 6110001620 Coil LA-245 L9 618000900 Coil LA-247 L11 6110001640 Coil LA-237 L12 618000710 Coil LA-237 L12 618000700 Coil LA 03NA R33M L13 618000900 Coil LS-114 L16 6150002430 Coil LS-254 L17 615000260 Coil LR-225 L19 6140002060 Coil LR-225 L19 6140002060 Coil LR-225 L20 618000900 Coil LS-90A	FI3	2010000320	Filter	9M22D2 (FL-30)
L1 614000080 Coil LR-20 L2 6180002520 Coil LAL 02NA R27K L3 6180001290 Coil LAL 02NA R33K L4 618000860 Coil LAL 03NA 5R6K L5 618000906 Coil LAL 03NA 102K L6 6140002050 Coil LR-224 L7 615001770 Coil LS-198 L8 6110001620 Coil LA-245 L9 618000900 Coil LA-247 L11 6110001640 Coil LA-237 L12 618000710 Coil LA-237 L12 618000710 Coil LAL 03NA R33M L13 618000690 Coil LA-247 L14 6150002430 Coil LS-254 L17 6150002430 Coil LS-254 L18 6140002060 Coil LR-225 L19 6140002060 Coil LR-225 L19 6140002060 Coil LR-255 L20 618000900 Coil LS-103NA 101K <td>FI4</td> <td>2010000950</td> <td>Filter</td> <td>9M6A1 (FL-116)</td>	FI4	2010000950	Filter	9M6A1 (FL-116)
L2 6180002520 Coil LAL 02NA R27K L3 6180001290 Coil LAL 02NA R33K L4 618000980 Coil LAL 03NA 5R6K L5 618000980 Coil LAL 03NA 5R6K L5 618000980 Coil LAL 03NA 102K L6 6140002050 Coil LR-224 L7 6150001770 Coil LS-198 L8 6110001620 Coil LA-245 L9 618000900 Coil LA-247 L10 6110001570 Coil LA-237 L12 618000710 Coil LA-237 L12 618000690 Coil LAL 03NA R33M L13 618000690 Coil LAL 03NA R22M L14 6150002430 Coil LS-254 L17 615000260 Coil LR-225 L18 6140002060 Coil LR-225 L20 618000900 Coil LS-90A L21 6150001640 Coil LS-90A L22 6150001590 Coil LS-90A	X1	6050001800	Crystal	CR-49
L2 6180002520 Coil LAL 02NA R27K L3 6180001290 Coil LAL 02NA R33K L4 618000980 Coil LAL 03NA 5R6K L5 618000980 Coil LAL 03NA 5R6K L5 618000980 Coil LAL 03NA 102K L6 6140002050 Coil LR-224 L7 6150001770 Coil LS-198 L8 6110001620 Coil LA-245 L9 618000900 Coil LA-247 L10 6110001570 Coil LA-237 L12 618000710 Coil LA-237 L12 618000690 Coil LAL 03NA R33M L13 618000690 Coil LAL 03NA R22M L14 6150002430 Coil LS-254 L17 615000260 Coil LR-225 L18 6140002060 Coil LR-225 L20 618000900 Coil LS-90A L21 6150001640 Coil LS-90A L22 6150001590 Coil LS-90A				
L3 6180001290 Coil LAL 02NA R33K L4 6180000860 Coil LAL 03NA 5R6K L5 618000960 Coil LAL 03NA 102K L6 6140002050 Coil LR-224 L7 6150001770 Coil LS-198 L8 6110001620 Coil LA-245 L9 618000900 Coil LA-247 L10 6110001640 Coil LA-237 L12 618000710 Coil LA-237 L12 6180000690 Coil LA 03NA R33M L13 6180000900 Coil LA-247 L14 6150002430 Coil LS-174 L14 6150002430 Coil LS-254 L17 615000260 Coil LR-225 L18 6140002060 Coil LR-225 L19 6140002060 Coil LR-225 L20 618000900 Coil LS-180B L22 615000700 Coil LS-90A L23 615000700 Coil LS-90A <t< td=""><td>L1</td><td></td><td>Coil</td><td></td></t<>	L1		Coil	
L4 6180000860 Coii LAL 03NA 5R6K L5 618000960 Coii LAL 03NA 102K L6 6140002050 Coii LR-224 L7 6150001770 Coii LS-198 L8 6110001620 Coii LA-245 L9 618000900 Coii LA-247 L10 6110001640 Coii LA-247 L11 6110001570 Coii LA-237 L12 618000710 Coii LAL 03NA R33M L13 618000690 Coii LAL 03NA R22M L14 6150002430 Coii LS-114 L16 615002430 Coii LR-225 L19 6140002060 Coii LR-225 L19 6140002060 Coii LR-225 L20 618000900 Coii LS-180B L22 615000700 Coii LS-90A L23 615000700 Coii LS-90A L24 618000950 Coii LAL 03NA 150K L25 6150001590 Coii LS-175	L2	6180002520	Coil	LAL 02NA R27K
L5 6180000960 Coil LAL 03NA 102K L6 6140002050 Coil LR-224 L7 6150001770 Coil LS-198 L8 6110001620 Coil LA-245 L9 6180000900 Coil LA-247 L10 6110001570 Coil LA-247 L11 6110001570 Coil LA-247 L12 6180000710 Coil LA-237 L12 6180000690 Coil LAL 03NA R33M L13 6180000690 Coil LS-114 L16 6150002430 Coil LS-254 L17 6150002430 Coil LR-225 L18 6140002060 Coil LR-225 L19 6140002060 Coil LR-225 L20 6180000900 Coil LS-180B L22 615000700 Coil LS-90A L23 615000700 Coil LS-90A L24 618000950 Coil LS-175 L25 6150001590 Coil LS-175	L3	6180001290	Coil	LAL 02NA R33K
L6 6140002050 Coil LR-224 L7 6150001770 Coil LS-198 L8 6110001620 Coil LA-245 L9 6180000900 Coil LA-247 L10 6110001640 Coil LA-247 L11 6110001570 Coil LA-237 L12 6180000710 Coil LA-237 L12 6180000900 Coil LA-237 L12 6180000900 Coil LA-237 L13 6180000900 Coil LA-237 L14 6150002300 Coil LS-114 L16 6150002430 Coil LS-254 L17 6150002600 Coil LR-225 L19 6140002060 Coil LR-225 L20 6180000900 Coil LS-130A L21 6150001640 Coil LS-90A L22 615000700 Coil LS-90A L23 6150001590 Coil LS-175 </td <td>L4</td> <td>6180000860</td> <td>Coil</td> <td>LAL 03NA 5R6K</td>	L4	6180000860	Coil	LAL 03NA 5R6K
L7 6150001770 Coil LS-198 L8 6110001620 Coil LA-245 L9 618000900 Coil LA-247 L10 6110001640 Coil LA-247 L11 6110001570 Coil LA-237 L12 6180000710 Coil LA-237 L13 6180000690 Coil LAL 03NA R33M L13 6180000690 Coil LAL 03NA R22M L14 6150002430 Coil LS-114 L16 6150002430 Coil LS-254 L17 6150002600 Coil LR-225 L18 6140002060 Coil LR-225 L19 6140002060 Coil LR-225 L20 618000900 Coil LS-1000 L21 6150001640 Coil LS-90A L22 615000700 Coil LS-90A L23 6150001590 Coil LS-175 L24 618000950 Coil LS-175 L25 6150001590 Coil LS-175	L5	6180000960	Coil	LAL 03NA 102K
L7 6150001770 Coil LS-198 L8 6110001620 Coil LA-245 L9 6180000900 Coil LA-247 L10 6110001640 Coil LA-247 L11 6110001570 Coil LA-237 L12 6180000710 Coil LA-237 L13 6180000900 Coil LAL 03NA R33M L14 6150002430 Coil LS-114 L16 6150002430 Coil LS-254 L17 6150002430 Coil LR-225 L18 6140002060 Coil LR-225 L19 6140002060 Coil LR-225 L20 618000900 Coil LS-198 L21 6150001640 Coil LS-90A L22 615000700 Coil LS-90A L23 615000700 Coil LS-90A L24 618000950 Coil LS-175 L25 6150001590 Coil LS-175 L26 6150001590 Coil LS-175 L		6140002050	Coll	LR-224
L8 6110001620 Coil LA-245 L9 618000900 Coil LAL 03NA 101K L10 6110001640 Coil LA-247 L11 6110001570 Coil LA-237 L12 6180000710 Coil LA-237 L13 618000690 Coil LAL 03NA R33M L13 618000690 Coil LAL 03NA R22M L14 6150002430 Coil LS-114 L16 6150002430 Coil LS-254 L17 615000260 Coil LR-225 L19 6140002060 Coil LR-225 L20 618000900 Coil LS-104 L21 6150001640 Coil LS-90A L22 615000700 Coil LS-90A L23 615000700 Coil LS-90A L24 618000950 Coil LS-175 L25 6150001590 Coil LS-175 L26 6150001590 Coil LS-			Coil	LS-198
L9 6180000900 Coil LAL 03NA 101K L10 6110001640 Coil LA-247 L11 6110001570 Coil LA-237 L12 6180000710 Coil LA-237 L12 6180000710 Coil LAL 03NA R33M L13 6180000690 Coil LAL 03NA R22M L14 6150002430 Coil LS-114 L16 6150002430 Coil LS-254 L17 6150002600 Coil LR-225 L19 6140002060 Coil LR-225 L20 618000900 Coil LS-180B L21 615000700 Coil LS-90A L22 615000700 Coil LS-90A L23 615000700 Coil LS-90A L24 618000950 Coil LS-175 L25 6150001590 Coil LS-175 L26 6150001590 Coil LS-175 L27 614000640 Coil <td< td=""><td></td><td></td><td></td><td>LA-245</td></td<>				LA-245
L10 6110001640 Coil LA-247 L11 6110001570 Coil LA-237 L12 6180000710 Coil LA-237 L12 6180000690 Coil LAL 03NA R33M L13 6180000690 Coil LAL 03NA R22M L14 6150002430 Coil LS-114 L16 6150002430 Coil LS-254 L17 615000260 Coil LR-225 L18 6140002060 Coil LR-225 L20 618000900 Coil LS-180B L21 6150001640 Coil LS-90A L22 615000700 Coil LS-90A L23 615000700 Coil LS-90A L24 618000950 Coil LS-175 L26 6150001590 Coil LS-175 L26 6150001590 Coil LS-175 L27 614000640 Coil LR-86 L28 6140001540 Coil LR-169				LAL 03NA 101K
L11 6110001570 Coil LA-237 L12 6180000710 Coil LAL 03NA R33M L13 6180000690 Coil LAL 03NA R33M L14 615000990 Coil LS-114 L16 6150002430 Coil LS-254 L17 6150002600 Coil LR-225 L18 6140002060 Coil LR-225 L20 618000900 Coil LS-180B L22 615000700 Coil LS-90A L23 615000700 Coil LS-90A L24 618000950 Coil LS-175 L25 6150001590 Coil LS-175 L26 6150001590 Coil LS-175 L27 6140000640 Coil LS-175 L26 6140001540 Coil LS-175 L27 6140000640 Coil LS-175 L28 6140001540 Coil LR-86 L28 6140001540 Coil LR-86		6110001640		LA-247
L12 6180000710 Coil LAL 03NA R33M L13 6180000690 Coil LAL 03NA R22M L14 6150002430 Coil LS-114 L16 6150002430 Coil LS-254 L17 6150002430 Coil LS-254 L18 6140002060 Coil LR-225 L19 6140002060 Coil LR-225 L20 618000900 Coil LS-180B L22 615000700 Coil LS-90A L23 615000700 Coil LS-90A L24 618000950 Coil LS-175 L25 6150001590 Coil LS-175 L26 6150001590 Coil LS-175 L27 6140000640 Coil LR-86 L28 6140001540 Coil LR-86				LA-237
L13 6180000690 Coii LAL 03NA R22M L14 615000990 Coii LS-114 L16 6150002430 Coii LS-254 L17 6150002430 Coii LS-254 L18 6140002060 Coii LR-225 L19 6140002060 Coii LR-225 L20 618000900 Coii LAL 03NA 101K L21 6150001640 Coii LS-180B L22 615000700 Coii LS-90A L23 615000700 Coii LS-90A L24 618000950 Coii LS-175 L25 6150001590 Coii LS-175 L26 6150001590 Coii LS-175 L27 614000640 Coii LR-86 L28 6140001540 Coii LR-86				LAL 03NA R33M
L14 615000990 Coil LS-114 L16 6150002430 Coil LS-254 L17 6150002430 Coil LS-254 L18 6140002060 Coil LR-225 L19 6140002060 Coil LR-225 L20 618000900 Coil LAL 03NA 101K L21 6150001640 Coil LS-90A L22 615000700 Coil LS-90A L23 615000550 Coil LS-175 L24 618000950 Coil LS-175 L25 6150001590 Coil LS-175 L26 6150001590 Coil LS-175 L27 614000640 Coil LR-86 L28 6140001540 Coil LR-86				LAL 03NA R22M
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L26 6150001590 Coil LS-175 L27 6140000640 Coil LR-86 L28 6140001540 Coil LR-169				
L27 6140000640 Coil LR-86 L28 6140001540 Coil LR-169				
L28 6140001540 Coil LR-169				
				1
L32 6180000880 Coil LAL 03NA 100K L33 6150001770 Coil LS-198				1
		0100001770		

MAIN	UNITJ		
REF. NO.	ORDER NO.	D	ESCRIPTION
L34	6150002430	Coil	LS-254
L35	6150002430	Coll	LS-254
L36	6150000990	Coll	LS-114 .
L37 L38	6150001470 6180000940	Coil Coil	LAL 03NA 270K
L39	6180000930	Coil	LAL 03NA 220K
L40	6180000900	Coil	LAL 03NA 101K
L41	6180000900	Coil	LAL 03NA 101K
L42	6180000850	Coil	LAL 03NA 4R7K LAL 03NA 3R9K
L43 L44	6180000840 6180000900	Coil Coil	LAL USINA SHIR
L44 L45	6180000870	Coil	LAL 03NA 6R8K
L46	6180000850	Coil	LAL 03NA 4R7K
L47	6180000900	Coil	LAL 03NA 101K
L48	6180000820	Coil	LAL 03NA 2R7M LAL 03NA 2R2M
L49 L50	6180000810 6180000820	Coil Coil	LAL 03NA 2R7M
L51	6180000830	Coil	LAL 03NA 3R3K
L52	6180000900	Coil	LAL 03NA 101K
L53	6180000800	Coil	LAL 03NA 1R8M
L54	6180000780	Coil	LAL 03NA 1R2M LAL 03NA 1R5M
L55 L56	6180000790 6180000790	Coil Coil	LAL OSNA 1R5M
L57	6180000900	Coil	LAL 03NA 101K
L58	6180000780	Coil	LAL 03NA 1R2M
L59	6180000770	Coil	LAL 03NA 1R0M
L60	6180000760	Coil	LAL 03NA R82M LAL 03NA R82M
L61 L62	6180000760 6180000900	Coll Coll	LAL USNA HOZM
L62 L63	6180000760	Coil	LAL 03NA R82M
L64	6180000750	Coil	LAL 03NA R68M
L65	6180000750	Coil	LAL 03NA R68M
L66	6180000740	Coil	LAL 03NA R56M
L67 L68	6180000900 6180000730	Coil Coil	LAL 03NA 101K LAL 03NA R47M
L69	6180000730	Coil	LAL 03NA R47M
L70	6180000730	Coil	LAL 03NA R47M
L71	6180000730	Coil	LAL 03NA R47M
L72	6180000900	Coil	LAL 03NA 101K LAL 03NA R27M
L73 L74	6180000700 6180000700	Coil Coil	LAL USINA R27M
L74 L75	6180000710	Coil	LAL 03NA R33M
L76	6180001290	Coil	LAL 02NA R33K
L77	6150001590	Coil	LS-175
L78	6150001470	Coil	LS-163 LS-175
L79 L80	6150001590 6170000140	Coil	LS-175 LW-15
L81	6180000690	Coll	LAL 03NA R22M
L82	6150001220	Coil	LS-134
L83	6150001210	Coil	LS-133A
L85	6180000900	Coil	LAL 03NA 101K LAL 03NA 101K
L86 L87	6180000900 6180000900	Coll Coll	LAL 03NA 101K
L88	6180000880	Coil	LAL 03NA 100K
L89	6180000950	Coil	LAL 03NA 150K
L90	6180000950	Coil	LAL 03NA 150K
L91	6180000900	Coil	LAL 03NA 101K LAL 03NA 101K
L92 L93	6180000900 6910000670	Coil Coil	BT01RN1-A61-001
L93	6180000900	Coil	LAL 03NA 101K
L95	6180000900	Coil	LAL 03NA 101K
L96	6910000670	Coil	BT01RN1-A61-001
L97	6180000900	Coil	LAL 03NA 101K
L98	6910000670 6180000900	Coil Coil	BT01RN1-A61-001 LAL 03NA 101K
L99 L100	6180000900	Coil	LAL 03NA 101K
L101	6180000900	Coil	LAL 03NA 101K
L102	6910000670	Coil	BT01RN1-A61-001
L103	6180000900	Coil	LAL 03NA 101K
L104	6180002460	Coil	LAL 02KR 150K LS-198
L111 L112	6150001770 6150001770	Coil Coil	LS-198
L114	6170000230	Coil	LW-25
L115	6180000900	Coll	LAL 03NA 101K
L116	6180000760	Coil	LAL 03NA R82M

[MAIN UNIT]

REF. NO.	ORDER NO.	DESCRIPTION]	REF. NO.	ORDER NO.	C	DESCRIPTION
L117	6180000760	Coil	LAL 03NA R82M		R74	7010003360	Resistor	ELR20J 470 Ω
					R75	7010003530	Resistor	ELR20J 10 kΩ
					R76	7010004030	Resistor	R20J 47 Ω
R1	7010004150	Resistor	R20J 470 Ω		R77	7010004090	Resistor	R20J 150 Ω
R2	7010003960	Resistor	R20J 12 Ω		R78	7010001530	Resistor	R25J 1 MΩ
R3	7010003360	Resistor	ELR20J 470 Ω		R79	7010003990	Resistor	R20J 22 Ω R20J 150 Ω
R4	7010000950	Resistor	R25J 22 Ω		R80	7010004090	Resistor Resistor	R25J 47 Ω
R5	7010004310	Resistor	R20J 8.2 kΩ R20J 5.6 Ω		R81 R82	7010003440	Resistor	ELR20J 2.2 kΩ
R6 R7	7010003920	Resistor Resistor	R20J 680 Ω		R83	7010004230	Resistor	R20J 2.2 kΩ
R8	7010003250	Resistor	ELR20J 56 Ω		R84	7010004030	Resistor	R20J 47 Ω
R9	7010003660	Resistor	ELR20J 100 kΩ		R85	7310000750	Trimmer	RH0651C14J2WA (103)
R10	7010003660	Resistor	ELR20J 100 kΩ		R86	7010004070	Resistor	R20J 100 Ω
R11	7010003530	Resistor	ELR20J 10 kΩ		R87	7010004950	Resistor	R20J 1.5 MΩ
R12	7010003240	Resistor	ELR20J 47 Ω		R88	7010003360	Resistor	ELR20J 470 Ω
R13	7010003160	Resistor	ELR20J 10 Ω	1	R89	7510000100	Thermistor	ERT-D2FGL601S
R14	7010004170	Resistor	R20J 680 Ω		R90	7010003530	Resistor	ELR20J 10 kΩ
R15	7010003490	Resistor	ELR20J 5.6 kΩ	1	R91	7010004030	Resistor	R20J 47 Ω
R16	7010003260	Resistor	ELR20J 68 Ω		R92	7010003340	Resistor	ELR20J 330 Ω R25J 470 Ω
R17	7010004070	Resistor	R20J 100 Ω		R93 R94	7010001110	Resistor Resistor	ELR25J 470 Ω
R18	7010004300	Resistor	R20J 6.8 kΩ R25J 1 Ω	1	R95	7010004070	Resistor	R20J 100 Ω
R19 R20	7010000790 7010004230	Resistor Resistor	R20J 2.2 kΩ		R96	7010004070	Resistor	R20J 100 Ω
R20 R21	7010004230	Resistor	ELR20J 6.8 kΩ		R97	7010004070	Resistor	R20J 100 Ω
R21	7010004090	Resistor	R20J 150 Ω		R98	7010004070	Resistor	R20J 100 Ω
R23	7010004270	Resistor	R20J 4.7 kΩ		R99	7010004070	Resistor	R20J 100 Ω
R24	7010003330	Resistor	ELR20J 270 Ω		R100	7010004070	Resistor	R20J 100 Ω
R25	7010003330	Resistor	ELR20J 270 Ω		R101	7410000180	Resistor Array	RMX- 8 103K
R26	7010003190	Resistor	ELR20J 18 Ω		R102	7010003350	Resistor	ELR20J 390 Ω
R27	7010003460	Resistor	ELR20J 3.3 kΩ		R103	7010004040	Resistor	R20J 56 Ω
R28	7010004230	Resistor	R20J 2.2 kΩ		R104	7010003620	Resistor	ELR20J 47 kΩ R25J 4.7 Ω
R29	7010004230	Resistor	R20J 2.2 kΩ		R105 R106	7010000870	Resistor Resistor	R20J 4.7 kΩ
R30 R31	7010001190 7010003320	Resistor Resistor	R25J 2.2 kΩ ELR20J 220 Ω		R100	7010003740	Resistor	ELR20J 470 kΩ
R32	7010003320	Resistor	R25J 47 Ω		R108	7010004370	Resistor	R20J 22 kΩ
R33	7010003740	Resistor	ELR20J 470 kΩ		R109	7010004420	Resistor	R20J 56 kΩ
R34	7010003580	Resistor	ELR20J 22 kΩ		R110	7310000750	Trimmer	RH0651C14J2WA (103)
R35	7510000110	Thermistor	ERT-D2FGL251S		R111	7010004320	Resistor	R20J 10 kΩ
R36	7010004130	Resistor	R20J 330 Ω		R112	7010001030	Resistor	R25J 100 Ω
R37	7010003280	Resistor	ELR20J 100 Ω		R113	7010003820	Resistor	ELR20J 3.3 MΩ
R38	7010004450	Resistor	R20J 100 kΩ		R114	7010004570	Resistor	R20J 1 MΩ
R39	7010003280	Resistor	ELR20J 100 Ω		R115	7010004370	Resistor	R20J 22 kΩ
R40	7010004070	Resistor	R20J 100 Ω		R116	7310000750 7010003580	Trimmer Resistor	RH0651C14J2WA (103) ELR20J 22 kΩ
R41	7010003950 7010003480	Resistor	R20J 10 Ω ELR20J 4.7 kΩ		R117 R118	7010003580	Resistor	R20J 4.7 MΩ
R42 R43	7010003480	Resistor Resistor	ELR20J 4.7 KΩ		R119	7010003530	Resistor	ELR20J 10 kΩ
R45	7010003620	Resistor	ELR20J 47 kΩ		R120	7010004070	Resistor	R20J 100 Ω
R46	7010003660	Resistor	ELR20J 100 kΩ		R121	7010004320	Resistor	R20J 10 kΩ
R47	7010003530	Resistor	ELR20J 10 kΩ		R122	7010004250	Resistor	R20J 3.3 kΩ
R48	7010003510	Resistor	ELR20J 6.8 kΩ	1	R123	7010003360	Resistor	ELR20J 470 Ω
R49	7010004130	Resistor	R20J 330 Ω		R124	7010003480	Resistor	ELR20J 4.7 kΩ
R50	7010003580	Resistor	ELR20J 22 kΩ		R125	7010003550	Resistor	ELR20J 15 kΩ
R51	7010003400	Resistor	ELR20J 1 kΩ		R126	7010003510	Resistor	ELR20J 6.8 kΩ
R52	7010004320	Resistor	R20J 10 kΩ	1	R127	7010003640	Resistor	ELR20J 68 kΩ
R53	7010004320	Resistor	R20J 10 kΩ	1	R128	7010003660	Resistor Resistor	ELR20J 100 kΩ ELR20J 1 kΩ
R54	7010004230	Resistor	R20J 2.2 kΩ R20J 2.2 kΩ		R129 R130	7010003400 7010004150	Resistor	R20J 470 Ω
R55 R56	7010004230 7010003460	Resistor Resistor	ELR20J 3.3 kΩ		R130	7010004150	Resistor	ELR20J 220 kΩ
R57	7010003460	Resistor	R20J 2.2 kΩ	1	R131	7010003700	Resistor	R20J 15 kΩ
R58	7010004230	Resistor	R20J 100 Ω	1	R133	7010004300	Resistor	R20J 6.8 kΩ
R59	7010004230	Resistor	R20J 2.2 kΩ		R134	7010004250	Resistor	R20J 3.3 kΩ
R60	7010003440	Resistor	ELR20J 2.2 k Ω		R135	7010003240	Resistor	ELR20J 47 Ω
R61	7010004230	Resistor	R20J 2.2 kΩ		R136	7010004030	Resistor	R20J 47 Ω
R62	7010003440	Resistor	ELR20J 2.2 kΩ	1	R137	7010004070	Resistor	R20J 100 Ω
R63	7010001030	Resistor	R25J 100 Ω		R138	7310000740	Trimmer	RH0651CS3J2KA (472)
R64	7010004230	Resistor	R20J 2.2 kΩ		R139	7010003530	Resistor	ELR20J 10 kΩ
R65	7010001110	Resistor	R25J 470 Ω		R140	7510000120	Thermistor	ERT-D2FGL332S
R66	7010004110	Resistor	R20J 220 Ω		R141	7010004070	Resistor	R20J 100 Ω
R67	7010003990	Resistor	R20J 22 Ω		R142	7010003300	Resistor	ELR20J 150 Ω B20 L 470 Ω
R68	7010003320	Resistor	ELR20J 220 Ω		R143 R144	7010004150 7010004410	Resistor Resistor	R20J 470 Ω R20J 47 kΩ
R69	7010000870	Resistor	R25J 4.7 Ω ELR20J 2.2 kΩ		R144 R145	7010004410	Resistor	R25J 100 Ω
R70 R71	7010003440 7010003400	Resistor Resistor	ELR20J 2.2 kΩ ELR20J 1 kΩ		R145	7010004230	Resistor	R20J 2.2 kΩ
R71 R72	7010003400	Resistor	ELR20J 1 k Ω		R140	7010003440	Resistor	ELR20J 2.2 kΩ
R73	7010003360	Resistor	ELR20J 470 Ω	1	R148	7010003530	Resistor	ELR20J 10 kΩ
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[MAIN UNIT]

REF. NO.	ORDER NO.		DESCRIPTION	REF. NO.	ORDER NO.	D	ESCRIPTION
R149	7010003830	Resistor	R20J 1 Ω	R223	7010004070	Resistor	R20J 100 Ω
150	7010003300	Resistor	ELR20J 150 Ω	R224	7010003530	Resistor	ELR20J 10 kΩ
151	7010003400	Resistor	ELR20J 1 kΩ	R225	7010000090	Resistor	ELR25J 4.7 Ω
152	7010003530	Resistor	ELR20J 10 kΩ	R226	7010000370	Resistor	ELR25J 1 kΩ
153	7010004320	Resistor	R20J 10 kΩ	R227	7010000090	Resistor	ELR25J 4.7 Ω
154	7010003530	Resistor	ELR20J 10 kΩ	R228	7010000370	Resistor	ELR25J 1 kΩ
155	7010004320	Resistor	R20J 10 kΩ	R229	7010000090	Resistor	ELR25J 4.7 Ω
156	7010004190	Resistor	R20J 1 kΩ	R230	7010004190	Resistor	R20J 1 kΩ
157	7010003480	Resistor	ELR20J 4.7 kΩ	R231	7410000140	Resistor Array	RMX- 6 472K
3158	7010001150	Resistor	R25J 1 kΩ	R232	7010004110	Resistor	R20J 220 Ω
159	7010003400	Resistor	ELR20J 1 kΩ	R233	7010003480	Resistor	ELR20J 4.7 kΩ
3160	7010004390	Resistor	R20J 33 kΩ	R234	7010003480	Resistor	ELR20J 4.7 kΩ
R161	7010003990	Resistor	R20J 22 Ω	R235	7010003490	Resistor	ELR20J 5.6 kΩ
162	7010003400	Resistor	ELR20J 1 kΩ	R236	7010004310	Resistor	R20J 8.2 kΩ
164	7010003660	Resistor	ELR20J 100 kΩ	R237	7010003380	Resistor	ELR20J 680 Ω
165	7010004070	Resistor	R20J 100 Ω	R238	7310000860	Trimmer	RH1051D13J0JA (102)
166	7010004450	Resistor	R20J 100 kΩ	R239	7010003540	Resistor	ELR20J 12 kΩ
167	7010001400	Resistor	R25J 100 kΩ	R240	7010003440	Resistor	ELR20J 2.2 kΩ
168	7010003660	Resistor	ELR20J 100 kΩ	R241	7310000750	Trimmer	RH0651C14J2WA (103
169	7010003440	Resistor	ELR20J 2.2 kΩ	R242	7010004320	Resistor	R20J 10 kΩ
170	7010004230	Resistor	R20J 2.2 kΩ	R243	7010001030	Resistor	R25J 100 Ω
171	7010003440	Resistor	ELR20J 2.2 kΩ	R244	7210001540		RK09K1110AEFA
172	7010004230	Resistor	R20J 2.2 kΩ	R245	7010004320	Resistor	R20J 10 kΩ
173	7010003480	Resistor	ELR20J 4.7 kΩ	R246	7010004190	Resistor	R20J 1 kΩ
174	7010004260	Resistor	R20J 3.9 kΩ	R247	7010004300	Resistor	R20J 6.8 kΩ
175	7010003420	Resistor	ELR20J 1.5 kΩ	R248	7010004570	Resistor	R20J 1 MΩ
176	7010003660	Resistor	ELR20J 100 kΩ	R249	7010001030	Resistor	R25J 100 Ω
177	7310000750	Trimmer	RH0651C14J2WA (103)	R250	7010004030	Resistor	R20J 47 Ω
178	7010003660	Resistor	ELR20J 100 kΩ	R251	7010003440	Resistor	ELR20J 2.2 kΩ
179	7310000750	Trimmer	RH0651C14J2WA (103)	R252	7010003660	Resistor	ELR20J 100 kΩ
180	7010004490	Resistor	R20J 220 kΩ	R253	7010003660	Resistor	ELR20J 100 kΩ
181	7010003440	Resistor	ELR20J 2.2 kΩ	R254	7010001280	Resistor	R25J 10 kΩ
182	7010003480	Resistor	ELR20J 4.7 kΩ	R255	7010004190	Resistor	R20J 1 kΩ
183	7010003530	Resistor	ELR20J 10 kΩ	R256	7010004270	Resistor	R20J 4.7 kΩ
184	7010004230	Resistor	R20J 2.2 kΩ	R257	7010003480	Resistor	ELR20J 4.7 kΩ
185	7010003720	Resistor	ELR20J 330 kΩ	R258	7010001360	Resistor	R25J 47 kΩ
186	7310000790	Trimmer	RH0651C15J1UA (104)	R259	7010004270	Resistor	R20J 4.7 kΩ
187	7010004410	Resistor	R20J 47 kΩ	R260	7010003400	Resistor	ELR20J 1 kΩ
188	7010003620	Resistor	ELR20J 47 kΩ	R261	7010003360	Resistor	ELR20J 470 Ω
189	7010001110	Resistor	R25J 470 Ω	R262	7010003460	Resistor	ELR20J 3.3 kΩ
190	7010004190	Resistor	R20J 1 kΩ	R263	7010004230	Resistor	R20J 2.2 kΩ
191	7010004410	Resistor	R20J 47 kΩ	R264	7010003580	Resistor	ELR20J 22 kΩ
192	7010003620	Resistor	ELR20J 47 kΩ	R265	7010003530	Resistor	ELR20J 10 kΩ
193	7010004390	Resistor	R20J 33 kΩ	R266	7010001150	Resistor	R25J 1 kΩ
194	7310000750	Trimmer	RH0651C14J2WA (103)	R267	7010003480	Resistor	ELR20J 4.7 kΩ
195	7010003600	Resistor	ELR20J 33 kΩ	R268	7010003360	Resistor	ELR20J 470 Ω
196	7010003780	Resistor	ELR20J 1 MΩ	R269	7010003120	Resistor	ELR20J 4.7 Ω
197	7010004150	Resistor	R20J 470 Ω	R270	7010004300	Resistor	R20J 6.8 kΩ
198	7010004570	Resistor	R20J 1 MΩ	R271	7010004320	Resistor	R20J 10 kΩ
199	7010005220	Resistor	ELR20J 10 MΩ	R272	7010003380	Resistor	ELR20J 680 Ω
200	7010003220	Resistor	R20J 1 M Ω	R273	7010004450	Resistor	R20J 100 kΩ
200	7010004370	Resistor	R20J 4.7 kΩ	R274	7010004320	Resistor	R20J 10 kΩ
202	7010004270	Resistor	R20J 470 Ω	R275	7010003040	Resistor	ELR20J 1Ω
203	7010004130	Resistor	R20J 68 kΩ	R281	7010004210	Resistor	R20J 1.5 kΩ
203	7010004430	Resistor	ELR20J 330 kΩ	R282	7010003360	Resistor	ELR20J 470 Ω
204	7010003720	Resistor	ELR20J 470 Ω	R283	7010004210	Resistor	R20J 1.5 kΩ
206	7010003650	Resistor	ELR20J 82 k Ω #03	R284	7010004140	Resistor	R20J 390 Ω
	7010003650		ELR20J 82 k Ω #04	R285	7010003250	Resistor	ELR20J 56 Ω
206		Resistor				Resistor	ELR20J 4.7 kΩ
206	7010003480	Resistor	ELR20J 4.7 kΩ #01	R287	7010003480		
206	7010003480	Resistor	ELR20J 4.7 kΩ #02	R288	7010004190	Resistor	R20J 1 kΩ ELR20J 5.6 kΩ
207	7010003510	Resistor	ELR20J 6.8 kΩ	R289	7010003490	Resistor	
208	7310000740	Trimmer	RH0651CS3J2KA (472)	R290	7010004190	Resistor	R20J 1 kΩ
209	7010003530	Resistor	ELR20J 10 kΩ	R291	7310000790	Trimmer	RH0651C15J1UA (104
210	7310000790	Trimmer	RH0651C15J1UA (104)	R292	7010003530	Resistor	ELR20J 10 kΩ
211	7010004530	Resistor	R20J 470 kΩ	R293	7310000750	Trimmer	RH0651C14J2WA (10)
212	7010003480	Resistor	ELR20J 4.7 kΩ	R294	7010004270	Resistor	R20J 4.7 kΩ
213	7010003810	Resistor	ELR20J 2.2 MΩ				
214	7010003360	Resistor	ELR20J 470 Ω				
215	7010001050	Resistor	R25J 150 Ω	C1	4010000520	Ceramic	DD108 B 472K 50V
216	7010003530	Resistor	ELR20J 10 kΩ	C2	4040000260	Barrier Layer	UZE 08X 104M
217	7010004450	Resistor	R20J 100 kΩ	C3	4010000410	Ceramic	DD107 SL 331J 50V
218	7010004190	Resistor	R20J 1 kΩ	C4	4010000260	Ceramic	DD104 SL 470J 50V
220	7010003740	Resistor	ELR20J 470 kΩ	C5	4010000380	Ceramic	DD107 SL 221J 50V
20 1					4010000150	Ceramic	DD104 SL 150J 50V
21	7010003740	Resistor	ELR20J 470 kΩ	C6	4010000100		DD104 OL 1300 30V

[MAIN UNIT]

REF. NO.	ORDER NO.		DESCRIPTION		ORDER NO.		DESCRIPTION
3	4040000110	Barrier Layer	UAT 04X 222K	C93	4010000080	Ceramic	DD104 SL 060D 50V
)	4040000260	Barrier Layer	UZE 08X 104M	C94	4010000520	Ceramic	DD108 B 472K 50V
0	4040000130	Barrier Layer	UAT 05X 332K	C95	4510001150	Electrolytic	50 MS7 R47 μF
11	4010000050	Ceramic	DD104 SL 030C 50V	C96	4010000520	Ceramic	DD108 B 472K 50V
12	4020000730	Cylinder	UP050 SL 150J	C97	4510001180	Electrolytic	50 MS7 3R3 µF
13	4010000340	Ceramic	DD105 SL 121J 50V	C99	4010000520	Ceramic	DD108 B 472K 50V
14	4010000520	Ceramic	DD108 B 472K 50V	C100	4510002640	Electrolytic	25 SS 47 µF
15	4010000520	Ceramic	DD108 B 472K 50V	C101	4040000260	Barrier Layer	UZE 08X 104M
16	4010000020	Ceramic	DD104 SL 010C 50V	C102	4010000500	Ceramic	DD104 B 102K 50V
17	4010000150	Ceramic	DD104 SL 150J 50V	C109	4510001100	Electrolytic	16 MS7 10 μF
18	4010000080	Ceramic	DD104 SL 060D 50V	C110	4310000060	Mylar	F2D 50V 223K
19	4010000010	Ceramic	DD104 SL 0R5C 50V	C112	4510001100	Electrolytic	16 MS7 10 μF
20	4010000500	Ceramic	DD104 B 102K 50V	C113	4510001160	Electrolytic	50 MS7 1 μF
21	4010000330	Ceramic	DD105 SL 101J 50V	C114	4010000520	Ceramic	DD108 B 472K 50V
23	4010000220	Ceramic	DD104 SL 330J 50V	C115	4510002640	Electrolytic	25 SS 47 μF
25	4010000500	Ceramic	DD104 B 102K 50V	C116	4010000330	Ceramic	DD105 SL 101J 50V
26	4010000100	Ceramic	DD104 SL 080D 50V	C117	4010000350	Ceramic	DD106 SL 151J 50V
27	4040000150	Barrier Layer	UAT 05X 472K	C118	4010000520	Ceramic	DD108 B 472K 50V
28	4010000520	Ceramic	DD108 B 472K 50V	C119	4010000520	Ceramic	DD108 B 472K 50V
29	4010000500	Ceramic	DD104 B 102K 50V	C120	4040000260	Barrier Layer	UZE 08X 104M
30	4010000520	Ceramic	DD108 B 472K 50V	C121	4010000520	Ceramic	DD108 B 472K 50V
31	4010003320	Ceramic	DD104 UJ 080D 50V	C122	4010000520	Ceramic	DD108 B 472K 50V
32	4010003320	Ceramic	DD104 UJ 080D 50V	C123	4010000380	Ceramic	DD107 SL 221J 50V
33	4010000300	Ceramic	DD104 SL 680J 50V	C124	4510001140	Electrolytic	50 MS7 R22 μF
35	4010000520	Ceramic	DD108 B 472K 50V	C125	4040000250	Barrier Layer	UAT 08X 473M
36	4010000430	Ceramic	DD109 SL 471J 50V	C126	4010000520	Ceramic	DD108 B 472K 50V
37	4010000340	Ceramic	DD105 SL 121J 50V	C127	4010000520	Ceramic	DD108 B 472K 50V
38	4020000030	Cylinder	UP125 SL 2R2K	C128	4010000350	Ceramic	DD106 SL 151J 50V
39	4010000070	Ceramic	DD104 SL 050C 50V	C129	4010000180	Ceramic	DD104 SL 220J 50V
40	4040000260	Barrier Layer	UZE 08X 104M	C130	4010000520	Ceramic	DD108 B 472K 50V
42	4040000260	Barrier Layer	UZE 08X 104M	C132	4010000520	Ceramic	DD108 B 472K 50V
13	4010000520	Ceramic	DD108 B 472K 50V	C133	4010000520	Ceramic	DD108 B 472K 50V
44	4010000520	Ceramic	DD108 B 472K 50V	C135	4010000520	Ceramic	DD108 B 472K 50V
	4010000520	Ceramic	DD108 B 472K 50V	C136	4010000520	Ceramic	DD108 B 472K 50V
46		Ceramic	DD108 B 472R 30V DD104 SL 270J 50V	C137	4010000180	Ceramic	DD104 SL 220J 50V
47	4010000200		DD104 3L 2703 30V DD108 B 472K 50V	C138	4010000520	Ceramic	DD108 B 472K 50V
49	4010000520	Ceramic Dession Lower	UAT 05X 472K	C139	4010000500	Ceramic	DD104 B 102K 50V
50	4040000150	Barrier Layer		C140	4010000520	Ceramic	DD108 B 472K 50V
51	4510001100	Electrolytic	16 MS7 10 μF	C140	4010000520	Ceramic	DD108 B 472K 50V
52	4040000150	Barrier Layer	UAT 05X 472K	C141	4010000320	Ceramic	DD104 SL 060D 50V
53	4040000150	Barrier Layer	UAT 05X 472K	C142	4040000080	Barrier Layer	UAT 04X 122K
54	4040000150	Barrier Layer	UAT 05X 472K	C143	4040000170	Barrier Layer	UAT 05X 682K
55	4010000520	Ceramic	DD108 B 472K 50V			Barrier Layer	RAU 08SA 821K
56	4010000520	Ceramic	DD108 B 472K 50V	C145	4040000460 4040000210	Barrier Layer	UAT 06X 153K
58	4010000340	Ceramic	DD105 SL 121J 50V	C146		Barrier Layer	UAT 04X 152K
59	4010000180	Ceramic	DD104 SL 220J 50V	C147	4040000090		UAT 04X 102K
60	4510001100	Electrolytic	16 MS7 10 μF	C148	4040000070	Barrier Layer	UP050 B 101K
51	4510002640	Electrolytic	25 SS 47 μF	C149	4020000630	Cylinder Barrior Lavor	UAT 04X 102K
52	404000260	Barrier Layer	UZE 08X 104M	C150	4040000070	Barrier Layer	UAT 04X 102K UAT 08X 473M
64	4010000520	Ceramic	DD108 B 472K 50V	C151	4040000250	Barrier Layer	
35	4010000520	Ceramic	DD108 B 472K 50V	C152	4040000260	Barrier Layer	UZE 08X 104M UZE 08X 104M
66	404000260	Barrier Layer	UZE 08X 104M	C153	4040000260	Barrier Layer	DD108 B 472K 50V
37	4040000150	Barrier Layer	UAT 05X 472K	C154	4010000520	Ceramic Barrier Lover	
68	4040000150	Barrier Layer	UAT 05X 472K	C155	4040000090	Barrier Layer	UAT 04X 152K
59	404000260	Barrier Layer	UZE 08X 104M	C156	4040000110	Barrier Layer	UAT 04X 222K
0	4040000250	Barrier Layer	UAT 08X 473M	C157	4010000410	Ceramic	DD107 SL 331J 50V
'1	404000250	Barrier Layer	UAT 08X 473M	C158	4010000520	Ceramic Borrior Lover	DD108 B 472K 50V
72	4010000330	Ceramic	DD105 SL 101J 50V	C159	404000080	Barrier Layer	UAT 04X 122K
73	404000250	Barrier Layer	UAT 08X 473M	C160	4010000360	Ceramic	DD106 SL 181J 50V
74	4040000250	Barrier Layer	UAT 08X 473M	C161	404000080	Barrier Layer	UAT 04X 122K
75	404000250	Barrier Layer	UAT 08X 473M	C162	4040000110	Barrier Layer	UAT 04X 222K
77	4010000160	Ceramic	DD104 SL 180J 50V	C163	4040000210	Barrier Layer	UAT 06X 153K
'8	4010000340	Ceramic	DD105 SL 121J 50V	C164	404000080	Barrier Layer	UAT 04X 122K
'9	4010000280	Ceramic	DD104 SL 560J 50V	C165	4040000250	Barrier Layer	UAT 08X 473M
0	4010000280	Ceramic	DD104 SL 560J 50V	C166	4010000520	Ceramic	DD108 B 472K 50V
31	4040000260	Barrier Layer	UZE 08X 104M	C167	4010000440	Ceramic	DD109 SL 511J 50V
32	4010000120	Ceramic	DD104 SL 100D 50V	C168	4010000330	Ceramic	DD105 SL 101J 50V
33	4010004840	Ceramic	DD305 F 104Z 12V	C169	4010000430	Ceramic	DD109 SL 471J 50V
34	4010004840	Ceramic	DD305 F 104Z 12V	C170	404000080	Barrier Layer	UAT 04X 122K
35	4010000500	Ceramic	DD104 B 102K 50V	C171	4040000160	Barrier Layer	UAT 05X 562K
36	4040000260	Barrier Layer	UZE 08X 104M	C172	4040000460	Barrier Layer	RAU 08SA 821K
37 37	4010000070	Ceramic	DD104 SL 050C 50V	C173	4040000250	Barrier Layer	UAT 08X 473M
39	4010000100	Ceramic	DD104 SL 080D 50V	C174	4010000520	Ceramic	DD108 B 472K 50V
90 99	4010000100	Ceramic	DD104 SL 080D 50V	C175	4010000410	Ceramic	DD107 SL 331J 50V
10 11	4010000100	Barrier Layer	UZE 08X 104M	C176	4010000270	Ceramic	DD104 SL 510J 50V
2				C177	4010000410	Ceramic	DD107 SL 331J 50V
	4010000520	Ceramic	DD108 B 472K 50V	1 1 9 17	1 -010000410	1	32.0. 00 001

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REF. NO. C178 C179 C180 C181 C182 C183 C184 C185 C186 C187 C188 C189 C190 C191 C192 C193 C194 C195 C196 C197 C198 C199 C200 C201 C202 C203 C204 C205 C206 C207 C208 C209 C210 C211 C212 C213 C214 C215 C216 C217 C218 C219 C220 C221 C222 C223 C224 C225 C226 C227 C228 C229 C230 C231 C232 C233 C234 C235 C236 C237

C238

C239

C240

C241

C242

C243

C244

C245 C246

C247

C248

C249

C250

C251

4010000520

4010000520

4010000520

4010000220

4310000060

4310000060

4310000060

4510001100

4510002850

4040000150

4510002640

4510001160

4510001170

4510001160

Ceramic

Ceramic

Ceramic

Ceramic

Electrolytic

Electrolytic

Electrolytic

Electrolytic

Electrolytic

Electrolytic

Barrier Layer

Mylar

Mylar

Mylar

DD108 B 472K 50V

DD108 B 472K 50V

DD108 B 472K 50V

DD104 SL 330J 50V

F2D 50V 223K

F2D 50V 223K

F2D 50V 223K

16 MS7 10 µF

UAT 05X 472K

50 MS7 2R2 µF

50 MS7 1 µF

25 SS 22 µF

25 SS 47 μF 50 MS7 1 μF

_	<u> </u>		
	ORDER NO.	D	ESCRIPTION
	4010000410	Ceramic	DD107 SL 331J 50V
	4040000320	Barrier Layer	UAT 05V 272K
	4010000410	Ceramic	DD107 SL 331J 50V
	4040000250	Barrier Layer	UAT 08X 473M
	4010000520	Ceramic	DD108 B 472K 50V
	4010000410	Ceramic	DD107 SL 331J 50V
	4010000260	Ceramic	DD104 SL 470J 50V
	4010000380	Ceramic	DD107 SL 221J 50V
	4010000380	Ceramic	DD107 SL 221J 50V
	4040000100	Barrier Layer	UAT 04X 182K
	4010000370	Ceramic	DD106 SL 201J 50V
	4040000250	Barrier Layer	UAT 08X 473M
	4010000520	Ceramic	DD108 B 472K 50V
	4010000380	Ceramic	DD107 SL 221J 50V
	4010000160	Ceramic	DD104 SL 180J 50V DD105 SL 101J 50V
	4010000330	Ceramic Ceramic	DD105 SL 1013 50V DD107 SL 221J 50V
	4010000380 4040000080	Barrier Layer	UAT 04X 122K
	4010000350	Ceramic	DD106 SL 151J 50V
	4040000250	Barrier Layer	UAT 08X 473M
	4010000520	Ceramic	DD108 B 472K 50V
	4010000220	Ceramic	DD104 SL 330J 50V
	4010000340	Ceramic	DD105 SL 121J 50V
	4010000240	Ceramic	DD104 SL 390J 50V
	4010000300	Ceramic	DD104 SL 680J 50V
	4010000340	Ceramic	DD105 SL 121J 50V
	4040000460	Barrier Layer	RAU 08SA 821K
	4010000330	Ceramic	DD105 SL 101J 50V
	4040000250	Barrier Layer	UAT 08X 473M
	4010000520	Ceramic	DD108 B 472K 50V
	4530000350	Capacitor Array	
	4010000520	Ceramic	DD108 B 472K 50V
	4510002380	Electrolytic	16 SS 470 μF (10X12.5)
	4040000260	Barrier Layer	UZE 08X 104M
	4510003040	Electrolytic	16 SS 100 µF
	4510000310	Electrolytic	16 MS16 1000 μF (12.5X16)
	4510002730	Electrolytic	10 SS 100 μF
	4510002640	Electrolytic	25 SS 47 μF
	4040000250	Barrier Layer	UAT 08X 473M
	4510001140	Electrolytic	50 MS7 R22 µF
	4510002730	Electrolytic	10 SS 100 µF
	4040000110	Barrier Layer	UAT 04X 222K
	4310000060	Mylar	F2D 50V 223K
	4510001100	Electrolytic	16 MS7 10 μF
	4510002640	Electrolytic	25 SS 47 μF
	4510001170	Electrolytic	50 MS7 2R2 μF
	4040000150	Barrier Layer	UAT 05X 472K
	4510001150	Electrolytic	50 MS7 R47 μF
	4040000210	Barrier Layer	UAT 06X 153K
	4010000520	Ceramic	DD108 B 472K 50V
	4040000150	Barrier Layer	UAT 05X 472K
	4040000150	Barrier Layer	UAT 05X 472K
	4010000840	Ceramic	DD105 CH 390J 50V
	4010001020	Ceramic	DD111 CH 221J 50V DD111 CH 221J 50V
	4010001020 4010000520	Ceramic Ceramic	DD108 B 472K 50V
	4010000520	Ceramic	DD108 B 472K 50V
ļ	4010000520	Ceramic	DD108 B 472K 50V
	4040000250	Barrier Layer	UAT 08X 473M
	4010000180	Ceramic	DD104 SL 220J 50V
	4040000500		DD100 D 470K F0V

[MAIN UNIT]

REF.	ORDER	Di	ESCRIPTION
NO.	NO. 4510001160	Electrolytic	50 MS7 1 μF
C252 C253	4010000520	Electrolytic Ceramic	DD108 B 472K 50V
C255	4010000520	Ceramic	DD108 B 472K 50V
C255	4010000520	Ceramic	DD108 B 472K 50V
C256	4010000520	Ceramic	DD108 B 472K 50V
C257	4010000520	Ceramic	DD108 B 472K 50V
C258	4010000330	Ceramic	DD105 SL 101J 50V
C259	4010000520	Ceramic Barrier Layer	DD108 B 472K 50V UZE 08X 104M
C260 C261	4040000260 4510001100	Electrolytic	16 MS7 10 μF
C262	4040000250	Barrier Layer	UAT 08X 473M
C263	4010000500	Ceramic	DD104 B 102K 50V
C264	4510001160	Electrolytic	50 MS7 1 μF
C265	4040000190	Barrier Layer	UAT 05X 103K
C266	4040000190 4510001150	Barrier Layer Electrolytic	UAT 05X 103K 50 MS7 R47 μF
C267 C268	4510001150	Electrolytic	50 MS7 R47 μF
C269	4510002810	Electrolytic	16 SS 47 μF
C270	4040000260	Barrier Layer	UZE 08X 104M
C271	4510002810	Electrolytic	16 SS 47 μF
C272	4530000350	Capacitor Array	B8ZC0111-32N
C273	4510001160	Electrolytic	50 MS7 1 μF DD104 B 471K 50V
C274 C275	4010000460 4010000520	Ceramic Ceramic	DD104 B 471K 50V DD108 B 472K 50V
C275 C276	4510001770	Electrolytic	16 RBP 10 μF
C270	4510002740	Electrolytic	10 SS 220 μF
C278	4510001120	Electrolytic	25 MS7 4R7 μF
C279	4040000150	Barrier Layer	UAT 05X 472K
C280	4040000150	Barrier Layer	UAT 05X 472K
C281	4010000240	Ceramic	DD104 SL 390J 50V
C282	4010000160 4510001150	Ceramic Electrolytic	DD104 SL 180J 50V 50 MS7 R47 µF
C283 C284	4010000520	Ceramic	DD108 B 472K 50V
C285	4010000520	Ceramic	DD108 B 472K 50V
C286	4010000520	Ceramic	DD108 B 472K 50V
C287	4010000520	Ceramic	DD108 B 472K 50V
C288	4010000520	Ceramic	DD108 B 472K 50V
C289	4010000520	Ceramic	DD108 B 472K 50V DD108 B 472K 50V
C290 C291	4010000520 4010000430	Ceramic Ceramic	DD108 B 472K 50V DD109 SL 471J 50V
C292	4010000520	Ceramic	DD108 B 472K 50V
C293	4510001140	Electrolytic	50 MS7 R22 µF
C294	4610001200	Trimmer	CVSSE3001
C295	4010000500	Ceramic	DD104 B 102K 50V
C297	4040000250	Barrier Layer	UAT 08X 473M UZE 08X 104M
C298 C299	4040000260 4040000260	Barrier Layer Barrier Layer	UZE 08X 104M
C300	4040000250	Barrier Layer	UAT 08X 473M
C301	4010000520	Ceramic	DD108 B 472K 50V
C311	4040000250	Barrier Layer	UAT 08X 473M
C312	4030000910	Ceramic	GRM40 CH 120J 50PT
C313	4010000600	Ceramic	DD104 CK 010C 50V
C314 C315	4030000910 4040000250	Ceramic Barrier Layer	GRM40 CH 120J 50PT UAT 08X 473M
C315 C316	4010004840	Ceramic	DD305 F 104Z 12V
C310	4010000500	Ceramic	DD104 B 102K 50V
C320	4610000780	Trimmer	CV38D 2001
C321	4020000250	Cylinder	UP125 X 472M
C322	4310000090	Mylar	F2D 50V 333K
RL1	6330000800	Relay	G5A-237P DC12V
RL2	6330000560	Relay	OUC-SH-114D
~	000000000	Quillat	ESD 1111010
S1	2220000360	Switch Switch	ESD-1111212 SPPJ31309A [BK IN]
S2	2230000700	Switch	
SO1	6510006640	Switch	50864-1
EP1	0910024033	P.C. Board	B 2297C (MAIN)

[PLL UNIT]

		DESCRIPTION			REF. NO.	ORDER NO.		DESCRIPTION
'n	0	IC	μPD4071BC		D18	1710000160	Diode	1SS133
'n		iC	µPD4030BC		D19	1710000160	Diode	1SS133
Ċ		IC	GD4001B		D20	1710000160	Diode	155133
Ċ		IC	uPD4069UBC		D21	1710000160	Diode	1SS133
ĸ		IC	GD4024B		D22	1710000160	Diode	1SS133
			BA222-V		D23	1710000160	Diode	1SS133
		IC IC			D24	1710000160	Diode	1SS133
0			S-8054ALB				Diode	155133
C		IC	HD63A01Y0RK10P		D25	1710000160	F	155133
0		IC	M54562P		D26	1710000160	Diode	
C		IC	TA78005AP		D27	1710000160	Diode	1SS133
C		IC	TC4021BP		D28	1710000160	Diode	1SS133
C	D	IC	MB4052M-G		D29	1710000050	Diode	18853
C	0	IC	TC9181P		D30	1710000050	Diode	18853
C	D	IC	M74ALS74AP		D31	1710000050	Diode	18853
C	D	IC	M74ALS74AP		D32	1710000050	Diode	18853
0		IC	μPC1037HA		D33	1710000050	Diode	18853
C		iC	μPC1037HA		D34	1710000050	Diode	18853
			,		D35	1710000160	Diode	1SS133
0			ND487C1-3R		D35 D36	1710000160	Diode	1SS133
0	J	IC	TC4028BP					
					D37	1710000160	Diode	1SS133
			_		D38	1710000160	Diode	1SS133
0	0	Transistor	2SC2458-GR		D39	1710000160	Diode	1SS133
0	0	Transistor	2SC2458-GR		D40	1710000160	Diode	1SS133
0	o I	Transistor	2SC2458-GR	1	D41	1710000160	Diode	1SS133
ō		Transistor	2SC2458-GR		D42	1710000160	Diode	1SS133
0		Transistor	2SC2458-GR	1	D43	1710000040	Diode	1S953
0		Transistor	2SC2458-GR	1	D40	1710000050	Diode	1SS53
					D44 D45	1710000160	Diode	155133
0		Transistor	2SC2458-GR	1	D45 D46	1710000160	Diode	1SS133
0		Transistor	2SC2458-GR					
0		Transistor	2SC2458-GR		D47	1710000050	Diode	1SS53
0	ן כ	Transistor	2SC2458-GR		D48	1720000050	Varicap	1SV50E
0	5	Transistor	2SC2458-GR	1	D49	1710000050	Diode	1SS53
0	5	Transistor	2SC1571G		D50	1720000050	Varicap	1SV50E
0	o I	Transistor	2SC2458-GR		D51	1710000050	Diode	15553
0		Transistor	2SC2458-GR		D52	1720000050	Varicap	1SV50E
ō		FET	2SK192A-GR		D53	1710000050	Diode	18853
0		Transistor	2SC2458-GR		D54	1720000050	Varicap	1SV50E
					D55	1710000050	Diode	18853
0		FET	2SK192A-GR				(1SV50E
0		Transistor	2SC2458-GR		D56	1720000050	Varicap	
0	-	FET	2SK192A-GR		D60	1710000160	Diode	1SS133
0	ן כ	Transistor	2SC2458-GR		D61	1710000160	Diode	1SS133
0)	FET	2SK192A-GR		D62	1710000160	Diode	155133
0	5	Transistor	2SC2458-GR		D64	1710000160	Diode	1SS133
0	5	Transistor	2SC2668-O		D65	1710000050	Diode	1SS53
0	ъl	Transistor	2SC2668-O		D79	1710000160	Diode	1SS133
0		Transistor	RN1202		D80	1710000050	Diode	1\$\$53
0		Transistor	2SC2668-O	1	D81	1710000030	Diode	1\$1555
			2SC2668-0	1	1 - • ·			
0		Transistor			1			
0		FET	2SK192A-GR			6060000100	Courses	CSA4.91MG
0		Transistor	2SC2668-0		X1	6060000120	Crystal	
0		Transistor	RN2202	1	X2	6050001520	Crystal	CR-21
0	ן נ	Transistor	2SC2458-Y		1			
0)	Transistor	2SC2458-GR		1			
0	5	Transistor	2SC2668-O		L1	6180000880	Coil	LAL 03NA 100K
0		Transistor	RN1202		L2	6140000580	Coil	LR-79
0	- 1	Transistor	2SC2668-O		L3	6130000990	Coil	LB-135
0	- 1	Transistor	2SA1048-GR		L4	6170000180	Coil	LW-19
0		Transistor	RN1202		L5	6140000580	Coil	LR-79
					L6	6130000990	Coil	LB-135
0	1	Transistor	2SC2668-O				1	LW-19
					L7	6170000180	Coll	
					L8	6140000580	Coil	LR-79
0)	Diode	1SS133		L9	6130000990	Coil	LB-135
0)	Diode	1SS133		L10	6170000180	Coil	LW-19
Ó		Diode	1SS133		L11	6140000580	Coil	LR-79
o		Diode	1SS133		L12	6130000990	Coil	LB-135
0		Diode	155133		L13	6170000180	Coil	LW-19
0		Diode	1SS133		L14	6180000900	Coil	LAL 03NA 101K
					L14	6180000900	Coil	LAL 03NA 101K
0		Zener	RD5.1E B2				1	LAL 03NA R56M
0		Diode	1SS133		L16	6180000740	Coil	
0	ן נ	Diode	1SS133		L17	6110001560	Coil	LA-236
0)	Diode	1SS133		L18	6110001560	Coil	LA-236
0		Diode	1SS133		L19	6110001550	Coil	LA-235
0	- 1	Diode	1SS133		L20	6180000900	Coil	LAL 03NA 101K
	- 1						1	LAL 03NA 100K
	- 1						1	LAL 03NA 100K
0	ן כ	Diode Diode	1SS133 1SS133			L21 L22		

[PLL	UNIT]
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REF.	ORDER		DESCRIPTION	1
NO.	NO.			-
L23 L24	6180000720 6180000700	Coil Coil	LAL 03NA R39M LAL 03NA R27M	1
L24 L25	6180000690	Coil	LAL OSNA R27M	
L25 L26	6180000960	Coil	LAL 03NA 102K	
L27	6180000900	Coll	LAL 03NA 101K	
L28	6180000900	Coil	LAL 03NA 101K	
L29	6180000900	Coil	LAL 03NA 101K	L
L30	6110001650	Coil	LA-248	
L31	6170000180	Coil	LW-19	
L32	6180000850	Coil	LAL 03NA 4R7K	
L33 L34	6910000670	Coil	BT01RN1-A61-001	l
L34 L35	6170000180	Coil Coil	LW-19 LS-94	
L35 L36	6180000900	Coil	LS-94 LAL 03NA 101K	
L37	6180000900	Coil	LAL 03NA 101K	
L38	6150000990	Coil	LS-114	
L39	6150000990	Coil	LS-114	
L40	6910003570	Coil	2943-666663	
L41	6110001640	Coil	LA-247	
L42	6180000880	Coil	LAL 03NA 100K	I
L43	6180000900	Coil	LAL 03NA 101K	1
L44	6910000670	Coil	BT01RN1-A61-001	I
L45	6180000960	Coil	LAL 03NA 102K	1
L46	6910003570	Coil	2943-666663	1
L47	6180000900	Coil	LAL 03NA 101K	
L48	6180000960	Coil	LAL 03NA 102K	1
L49 L50	6110001560 6180000960	Coil Coil	LA-236 LAL 03NA 102K	I
L50 L51	6180000960	Coil	LAL USNA TOZK LAL OSNA 102K	
L52	6150001770	Coil	LS-198	
L53	6150001770	Coil	LS-198	
L54	6150001770	Coil	LS-198	L
L55	6110001630	Coil	LA-246	
L56	6140002050	Coil	LR-224	
L57	6140002050	Coil	LR-224	L
L58	6150002880	Coil	LS-302	L
L59	6150002880	Coil	LS-302	
L60	6150002880	Coil	LS-302	
L61	6150002880	Coil	LS-302	L
L62	6180000880	Coil	LAL 03NA 100K	
R1	7010003780	Resistor	ELR20J 1 MΩ	
R2	7010003550	Resistor	ELR20J 15 kΩ	
R3 R4	7010004320 7010003810	Resistor Resistor	R20J 10 kΩ ELR20J 2.2 MΩ	
R5	7010003780	Resistor Resistor	ELR20J 2.2 MΩ ELR20J 1 MΩ	1
R6	7010003550	Resistor	ELR20J 15 k Ω	L
R7	7010001400	Resistor	R25J 100 kΩ	l
R8	7010003700	Resistor	ELR20J 220 kΩ	L
R9	7010003660	Resistor	ELR20J 100 kΩ	
R10	7010003700	Resistor	ELR20J 220 kΩ	I
R11	7010003660	Resistor	ELR20J 100 kΩ	1
R12	7010003660	Resistor	ELR20J 100 kΩ	ĺ
R13	7010004320	Resistor	R20J 10 kΩ	1
R14	7010001280	Resistor	R25J 10 kΩ	1
R15	7010004210	Resistor	R20J 1.5 kΩ	I
R16	7010003530	Resistor	ELR20J 10 kΩ	I
R17	7010003620	Resistor	ELR20J 47 kΩ	1
R18	7010004450	Resistor	R20J 100 kΩ	l
R19 R20	7010003620 7010003620	Resistor Resistor	ELR20J 47 kΩ ELR20J 47 kΩ	
R20 R21	7010003620	Resistor	R20J 10 kΩ	L
R22	7010004320	Resistor	ELR20J 47 kΩ	l
R23	7010003400	Resistor	ELR20J 1 k Ω	l
R24	7010003400	Resistor	ELR20J 1 k Ω	Ĺ
R25	7010003400	Resistor	ELR20J 1 kΩ	
R26	7010003400	Resistor	ELR20J 1 kΩ	L
R27	7010003400	Resistor	ELR20J 1 kΩ	
R28	7010003400	Resistor	ELR20J 1 kΩ	
R29	7010001150	Resistor	R25J 1 kΩ	
R30	7010001150	Resistor	R25J 1 kΩ	
R31	7010001150	Resistor	R25J 1 kΩ	
R32	7010001150	Resistor	R25J 1 kΩ	L
R33	7010001150	Resistor	R25J 1 kΩ	1

REF. OR.DER. DESCRIPTION R34 7010001150 Resistor R25J 1 kΩ R35 7010003400 Resistor ELR20J 18 kΩ R37 7010003400 Resistor ELR20J 3.3 kΩ R38 7010003400 Resistor ELR20J 16 kΩ R39 7010004190 Resistor ELR20J 1 kΩ R41 7010001150 Resistor R2J 1 kΩ R42 7010001150 Resistor R2J 1 kΩ R44 7010001150 Resistor R2J 1 kΩ R44 7010001150 Resistor R2J 1 kΩ R44 7010001150 Resistor R2J 1 kΩ R46 701000330 Resistor R2J 1 kΩ R47 701000330 Resistor ELR2U 10 kΩ R51 7010003400 Resistor ELR2U 47 Ω R52 7010003400 Resistor ELR2U 10 kΩ R54 7010003400 Resistor R2J 47 Ω R55 7010003400 Resistor R2J 47 kΩ									
R35 7010005230 Resistor ELR20J 750 R36 7010003400 Resistor ELR20J 3.3 kΩ R38 7010003400 Resistor ELR20J 3.3 kΩ R38 7010003400 Resistor ELR20J 3.6 kΩ R40 7010003400 Resistor ELR20J 4.7 kΩ R41 7010004190 Resistor R2J 1 kΩ R42 7010001150 Resistor R2J 1 kΩ R44 7010001150 Resistor R2J 1 kΩ R44 7010001150 Resistor R2J 1 kΩ R44 701000150 Resistor R2J 1 kΩ R44 701000150 Resistor ELR2J 1 kΩ R45 701000350 Resistor ELR2J 1 kΩ R55 701000360 Resistor ELR2J 10 kΩ R56 70100360 Resistor ELR2J 10 kΩ R56 7010003400 Resistor R2J			DESCRIPTION						
R36 7010003400 Resistor ELR20J 1.8 kΩ R37 7010003400 Resistor ELR20J 5.6 kΩ R38 701000350 Resistor ELR20J 10 kΩ R40 7010003400 Resistor RE20J 1 kΩ R41 7010004190 Resistor R20J 1 kΩ R42 7010001150 Resistor R25J 1 kΩ R44 7010001150 Resistor R25J 1 kΩ R46 7010001150 Resistor R25J 1 kΩ R47 701000470 Resistor R25J 1 kΩ R48 701000360 Resistor R25J 1 kΩ R51 701000360 Resistor ELR20J 10 kΩ R52 701000360 Resistor ELR20J 10 kΩ R53 701000360 Resistor ELR20J 10 kΩ R54 701000360 Resistor ELR20J 10 kΩ R55 701003400 Resistor ELR20J 47 kΩ R56 701003420 Resistor R2J 47 kΩ R57 701003420 Resistor	R34	7010001150	Resistor	R25J 1 kΩ					
R37 701003490 Resistor ELR20J 5.6 kΩ R39 7010003490 Resistor ELR20J 10 kΩ R40 7010003490 Resistor ELR20J 10 kΩ R41 7010004190 Resistor R2DJ 1 kΩ R42 7010001150 Resistor R2DJ 1 kΩ R43 7010001150 Resistor R2J 1 kΩ R44 701000350 Resistor ELR2J 1 kΩ R51 701000350 Resistor ELR2J 1 kΩ R53 701000360 Resistor ELR2J 1 kΩ R54 701000360 Resistor ELR2J 47 Ω R55 701000360 Resistor ELR2J 47 Ω R56 701000360 Resistor ELR2J 47 Ω R55 701000360 Resistor R2J 47 KΩ R56 701000410 Resistor R2J 47 K									
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R107 7010003990 Resistor R20J 22 Ω				R20J 220 Ω					
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R108 7010003530 Resistor ELR20J 10 kΩ									
	1100	1010003330							

[PLL UNIT]

REF.	ORDER	DESCRIPTION		REF.	ORDER	DESCRIPTION		
NO.	NO.			NO.	NO.			
R109	7010003580	Resistor	ELR20J 22 kΩ	R197	7010003280	Resistor	ELR20J 100 Ω	
R110	7010004070	Resistor	R20J 100 Ω	R198	7010003580	Resistor	ELR20J 22 kΩ	
1111	7010003200	Resistor	ELR20J 22 Ω	R199	7010001030	Resistor	R25J 100 Ω	
112	7010003320	Resistor	ELR20J 220 Ω	R200	7010003280	Resistor	ELR20J 100 Ω	
113	7010003330	Resistor	ELR20J 270 Ω	R201	7010004030	Resistor	R20J 47 Ω	
114	7010003980	Resistor	R20J 18 Ω	R202	7010001150	Resistor	R25J 1 kΩ	
115	7010003330	Resistor	ELR20J 270 Ω	R203	7010004340	Resistor	R20J 15 kΩ	
116	7010001150	Resistor	R25J 1 kΩ	R204	7010001320	Resistor	R25J 22 kΩ	
117	7010001150	Resistor	R25J 1 kΩ					
	7010004190	Resistor	R20J 1 kΩ					
118	7010004190	Resistor	R25J 220 Ω	C1	4010000500	Ceramic	DD104 B 102K 50V	
119				C2	4010000500	Ceramic	DD104 B 102K 50V	
121	7010003480	Resistor	ELR20J 4.7 kΩ			Electrolytic	50 MS7 R47 µF	
123	7010003280	Resistor	ELR20J 100 Ω	C3	4510001150	Ceramic	DD108 B 472K 50V	
124	7010004150	Resistor	R20J 470 Ω	C4	4010000520		DD108 B 472K 50V	
125	7010003620	Resistor	ELR20J 47 kΩ	C5	4010000500	Ceramic		
126	7010003420	Resistor	ELR20J 1.5 kΩ	C6	4010000500	Ceramic	DD104 B 102K 50V	
127	7010004110	Resistor	R20J 220 Ω	C8	4010000500	Ceramic	DD104 B 102K 50V	
128	7010003360	Resistor	ELR20J 470 Ω	C9	4310000010	Mylar	F2D 50V 102K	
129	7010004110	Resistor	R20J 220 Ω	C10	4510001100	Electrolytic	16 MS7 10 μF	
	7010004110	Resistor	R20J 1 kΩ	C11	4510001100	Electrolytic	16 MS7 10 µF	
130	1		R20J 1 kΩ	C12	4550000350	Tantalum	DN 1V 010M	
131	7010004190	Resistor		C12	4550000400	Tantalum	DN 1C 2R2M	
132	7010004190	Resistor	R20J 1 kΩ				UZE 08X 104M	
1133	7010001230	Resistor	R25J 4.7 kΩ	C14	4040000260	Barrier Layer		
134	7010003160	Resistor	ELR20J 10 Ω	C15	4010000810	Ceramic	DD105 CH 300J 50V	
136	7010003580	Resistor	ELR20J 22 kΩ	C16	4010000810	Ceramic	DD105 CH 300J 50V	
137	7010003660	Resistor	ELR20J 100 kΩ	C17	4550000400	Tantalum	DN 1C 2R2M	
138	7010004090	Resistor	R20J 150 Ω	C18	4510002640	Electrolytic	25 SS 47 μF	
139	7010003440	Resistor	ELR20J 2.2 kΩ	C19	4040000260	Barrier Layer	UZE 08X 104M	
140	7010003530	Resistor	ELR20J 10 k Ω	C20	4510003040	Electrolytic	16 SS 100 µF	
			ELR20J 4.7 k Ω	C21	4530000150	Capacitor Array		
8141	7010003480	Resistor		C22	4010000520	Ceramic	DD108 B 472K 50V	
142	7010003340	Resistor	ELR20J 330 Ω			Capacitor Array		
143	7010004110	Resistor	R20J 220 Ω	C23	4530000270			
₹144	7010003280	Resistor	ELR20J 100 Ω	C24	404000250	Barrier Layer	UAT 08X 473M	
145	7010003240	Resistor	ELR20J 47 Ω	C25	4040000260	Barrier Layer	UZE 08X 104M	
3146	7010003280	Resistor	ELR20J 100 Ω	C26	4010000520	Ceramic	DD108 B 472K 50V	
3147	7010003530	Resistor	ELR20J 10 kΩ	C27	4510003040	Electrolytic	16 SS 100 μF	
R149	7010004070	Resistor	R20J 100 Ω	C28	4010000500	Ceramic	DD104 B 102K 50V	
3150	7010004190	Resistor	R20J 1 kΩ	C29	4510001750	Electrolytic	50 RBP 2.2 µF	
	7010003600	Resistor	ELR20J 33 kΩ	C31	4010003460	Ceramic	DD104 UJ 330J 50V	
R151			ELR20J 2.2 k Ω	C32	4040000250	Barrier Layer	UAT 08X 473M	
R152	7010003440	Resistor			4010000940	Ceramic	DD107 CH 101J 50V	
R153	7010003280	Resistor	ELR20J 100 Ω	C33			DD104 CH 200J 50V	
R155	7010004190	Resistor	R20J 1 kΩ	C34	4010000770	Ceramic		
R156	7010003480	Resistor	ELR20J 4.7 kΩ	C35	4610001130	Trimmer	CVSSA1001	
3157	7010003550	Resistor	ELR20J 15 kΩ	C36	4010000900	Ceramic	DD107 CH 680J 50V	
R158	7010003360	Resistor	ELR20J 470 Ω	C37	4510002640	Electrolytic	25 SS 47 μF	
R159	7010003240	Resistor	ELR20J 47 Ω	C38	4010000720	Ceramic	DD104 CH 120J 50V	
R160	7010003320	Resistor	ELR20J 220 Ω	C39	4010000720	Ceramic	DD104 CH 120J 50V	
161	7010003530	Resistor	ELR20J 10 kΩ	C40	4010000520	Ceramic	DD108 B 472K 50V	
R162	7010003410	Resistor	ELR20J 1.2 k Ω	C41	4010000520	Ceramic	DD108 B 472K 50V	
		Resistor	ELR20J 10 kΩ	C42	4010000020	Ceramic	DD104 SL 010C 50V	
R163	7010003530	1		C42	4010000500	Ceramic	DD104 B 102K 50V	
R164	7010004370	Resistor	R20J 22 kΩ		4010000900	Ceramic	DD107 CH 680J 50V	
165	7010003300	Resistor	ELR20J 150 Ω	C44			DD104 CH 150J 50V	
R166	7010001030	Resistor	R25J 100 Ω	C45	4010000740	Ceramic		
R167	7010003530	Resistor	ELR20J 10 kΩ	C46	4610001130	Trimmer	CVSSA1001	
168	7010003530	Resistor	ELR20J 10 kΩ	C47	401000860	Ceramic	DD106 CH 470J 50V	
R169	7010003530	Resistor	ELR20J 10 kΩ	C48	4510002640	Electrolytic	25 SS 47 µF	
R170	7010003530	Resistor	ELR20J 10 kΩ	C49	4010000720	Ceramic	DD104 CH 120J 50V	
171	7010003620	Resistor	ELR20J 47 kΩ	C50	4010000720	Ceramic	DD104 CH 120J 50V	
172	7010004410	Resistor	R20J 47 kΩ	C51	4010000520	Ceramic	DD108 B 472K 50V	
173	7010004150	Resistor	R20J 470 Ω	C52	4010000520	Ceramic	DD108 B 472K 50V	
	7010004150	Resistor	R20J 10 kΩ	C53	4010000020	Ceramic	DD104 SL 010C 50V	
174				C54	4010000260	Ceramic	DD104 SL 470J 50V	
1175	7010004190	Resistor	R20J 1 kΩ				DD104 SL 510J 50V	
176	7010003360	Resistor	ELR20J 470 Ω	C55	4010000270	Ceramic		
1177	7010003360	Resistor	ELR20J 470 Ω	C56	401000500	Ceramic	DD104 B 102K 50V	
178	7010003360	Resistor	ELR20J 470 Ω	C57	4010000870	Ceramic	DD106 CH 510J 50V	
179	7010003400	Resistor	ELR20J 1 kΩ	C58	4010000700	Ceramic	DD104 CH 100D 50V	
180	7010003460	Resistor	ELR20J 3.3 kΩ	C59	4610001000	Trimmer	CVSSA0701	
181	7010003760	Resistor	ELR20J 680 kΩ	C60	4010000860	Ceramic	DD106 CH 470J 50V	
	1		R20J 10 kΩ	C61	4510002640	Electrolytic	25 SS 47 µF	
182	7010004320	Resistor			4010000680	Ceramic	DD104 CH 080D 50V	
190	7010004190	Resistor	R20J 1 kΩ	C62	1		DD104 CH 080D 50V DD104 CH 120J 50V	
191	7010003530	Resistor	ELR20J 10 kΩ	C63	4010000720	Ceramic		
193	7010003480	Resistor	ELR20J 4.7 kΩ	C64	4010000520	Ceramic	DD108 B 472K 50V	
194	7010003480	Resistor	ELR20J 4.7 kΩ	C65	4010000520	Ceramic	DD108 B 472K 50V	
104					4010000020	Ceramic	DD104 SL 010C 50V	
195	7010003480	Resistor	ELR20J 4.7 kΩ	C66	401000020	Oeranno	DD104 B 102K 50V	

REF. NO.	ORDER NO.	DESCRIPTION				
C68	4010000860	Ceramic	DD106 CH 470J 50V			
C69	401000630	Ceramic	DD104 CJ 030C 50V			
C70 C71	4610001000 4010000820	Trimmer Ceramic	CVSSA0701 DD105 CH 330J 50V			
C72	4010000820	Electrolytic	25 SS 47 μF			
C73	4010000660	Ceramic	DD104 CH 060D 50V			
C74	4010000720	Ceramic	DD104 CH 120J 50V			
C75 C76	4010000520 4040000260	Ceramic Barrier Laver	DD108 B 472K 50V UZE 08X 104M			
C78 C77	4510002730	Electrolytic	10 SS 100 µF			
C78	4010000520	Ceramic	DD108 B 472K 50V			
C79	401000020	Ceramic	DD104 SL 010C 50V			
C80 C81	4010000500 4010000260	Ceramic Ceramic	DD104 B 102K 50V DD104 SL 470J 50V			
C82	4040000150	Barrier Layer	UAT 05X 472K			
C83	4010000460	Ceramic	DD104 B 471K 50V			
C84	4040000250	Barrier Layer	UAT 08X 473M			
C85 C86	4010000380 4010000500	Ceramic Ceramic	DD107 SL 221J 50V DD104 B 102K 50V			
C87	4010000240	Ceramic	DD104 SL 390J 50V			
C88	4010000150	Ceramic	DD104 SL 150J 50V			
C89	4010000240	Ceramic	DD104 SL 390J 50V			
C90 C91	4010000160 4010000200	Ceramic Ceramic	DD104 SL 180J 50V DD104 SL 270J 50V			
C92	4010000230	Ceramic	DD104 SL 360J 50V			
C93	4010000180	Ceramic	DD104 SL 220J 50V			
C94	4010000120	Ceramic	DD104 SL 100D 50V			
C95 C96	4040000150 4010000520	Barrier Layer Ceramic	UAT 05X 472K DD108 B 472K 50V			
C97	4040000150	Barrier Layer	UAT 05X 472K			
C98	4010000520	Ceramic	DD108 B 472K 50V			
C99	4010000300	Ceramic	DD104 SL 680J 50V			
C100 C101	401000080 4010000320	Ceramic Ceramic	DD104 SL 060D 50V DD104 SL 820J 50V			
C102	4010000160	Ceramic	DD104 SL 180J 50V			
C103	4010000310	Ceramic	DD104 SL 750J 50V			
C104 C105	4010000520 4040000260	Ceramic Barrier Layer	DD108 B 472K 50V UZE 08X 104M			
C105	4010000280	Ceramic	DD108 B 472K 50V			
C107	4040000250	Barrier Layer	UAT 08X 473M			
C108	401000520	Ceramic	DD108 B 472K 50V			
C109 C110	4010000460 4010000210	Ceramic Ceramic	DD104 B 471K 50V DD104 SL 300J 50V			
C111	4010000410	Ceramic	DD107 SL 331J 50V			
C112	4020000260	Cylinder	TP125 X 103M			
C113	404000260	Barrier Layer	UZE 08X 104M DN 1C 2R2M			
C114 C115	4550000400 4010000520	Tantalum Ceramic	DD108 B 472K 50V			
C116	4010000740	Ceramic	DD104 CH 150J 50V			
C117	4010000810	Ceramic	DD105 CH 300J 50V			
C118 C119	4010000900 4010000720	Ceramic Ceramic	DD107 CH 680J 50V DD104 CH 120J 50V			
C119 C120	4010000720	Ceramic	DD104 CH 1203 50V DD104 CH 120J 50V			
C121	4040000150	Barrier Layer	UAT 05X 472K			
C122	4510001100	Electrolytic	16 MS7 10 μF			
C123 C124	4010000500 4010000520	Ceramic Ceramic	DD104 B 102K 50V DD108 B 472K 50V			
C125	4010000520	Ceramic	DD108 B 472K 50V			
C126	4010000380	Ceramic	DD107 SL 221J 50V			
C127	4040000260 4040000260	Barrier Layer Barrier Layer	UZE 08X 104M UZE 08X 104M			
C128 C129	4040000260	Barrier Layer	UAT 05X 472K			
C130	4010000500	Ceramic	DD104 B 102K 50V			
C131	4040000260	Barrier Layer	UZE 08X 104M			
C132 C133	4510002640 4010000270	Electrolytic Ceramic	25 SS 47 μF DD104 SL 510J 50V			
C133	4610001120	Trimmer	CVSSC2001			
C135	4010003100	Ceramic	DD106 TH 820J 50V			
C136	4010000520	Ceramic	DD108 B 472K 50V			
C137 C138	4010000520 4010003100	Ceramic Ceramic	DD108 B 472K 50V DD106 TH 820J 50V			
C139	4550000320	Tantalum	DN 1V 0R1M			
C140	4040000150	Barrier Layer	UAT 05X 472K			
C141 C142	4010000500 4010000500	Ceramic Ceramic	DD104 B 102K 50V DD104 B 102K 50V			
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[PLL UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
C143	4010000500	Ceramic	DD104 B 102K 50V
C144	4010000380	Ceramic	DD107 SL 221J 50V
C145	404000260	Barrier Layer	UZE 08X 104M
C146	4010000100	Ceramic	DD104 SL 080D 50V DD108 B 472K 50V
C147 C148	4010000520 401000010	Ceramic Ceramic	DD108 B 472K 50V DD104 SL 0R5C 50V
C148	4010000100	Ceramic	DD104 SL 080D 50V
C150	4010000520	Ceramic	DD108 B 472K 50V
C151	4040000260	Barrier Layer	UZE 08X 104M
C152	4040000260	Barrier Layer	UZE 08X 104M
C153	4510000310	Electrolytic	16 MS16 1000 μF (12.5X16)
C154	4040000190	Barrier Layer	UAT 05X 103K
C155 C156	4040000190 4040000190	Barrier Layer Barrier Layer	UAT 05X 103K UAT 05X 103K
C156 C157	4010000520	Ceramic	DD108 B 472K 50V
C158	4040000150	Barrier Layer	UAT 05X 472K
C159	4010000520	Ceramic	DD108 B 472K 50V
C160	4020000180	Cylinder	UP125 B 471K
C161	4040000190	Barrier Layer	UAT 05X 103K
C162	4010000210	Ceramic	DD104 SL 300J 50V
C163	4010000180	Ceramic	DD104 SL 220J 50V
C164	4010000210	Ceramic	DD104 SL 300J 50V
C165	4020000260	Cylinder Barrier Lavor	TP125 X 103M UAT 08X 473M
C166 C167	4040000250 4040000250	Barrier Layer Barrier Layer	UAT 08X 473M UAT 08X 473M
C167	4040000250	Barrier Layer	UAT 08X 473M
C108	4040000250	Barrier Layer	UAT 05X 472K
C172	4010000650	Ceramic	DD104 CH 050C 50V
C173	4010000680	Ceramic	DD104 CH 080D 50V
C174	4010000620	Ceramic	DD104 CK 020C 50V
C175	4010000740	Ceramic	DD104 CH 150J 50V
C176	4010000620	Ceramic	DD104 CK 020C 50V
C177	4010000700	Ceramic	DD104 CH 100D 50V
C178	4010000330	Ceramic	DD105 SL 101J 50V DD104 SL 560J 50V
C179 C180	4010000280 4010000330	Ceramic Ceramic	DD104 SL 3003 50V
C180	4010000330	Ceramic	DD104 CH 200J 50V
C182	4010000620	Ceramic	DD104 CK 020C 50V
C183	4010000760	Ceramic	DD104 CH 180J 50V
C184	4010000340	Ceramic	DD105 SL 121J 50V
C185	4010000430	Ceramic	DD109 SL 471J 50V
C186	4010000760	Ceramic	DD104 CH 180J 50V
C187	4040000150	Barrier Layer	UAT 05X 472K DD104 CK 020C 50V
C188 C189	4010000620 4010000770	Ceramic Ceramic	DD104 CK 020C 50V DD104 CH 200J 50V
C189	4010000520	Ceramic	DD108 B 472K 50V
C194	4010000520	Ceramic	DD108 B 472K 50V
C195	4010000520	Ceramic	DD108 B 472K 50V
C196	4550000400	Tantalum	DN 1C 2R2M
C197	4010000050	Ceramic	DD104 SL 030C 50V
C198	4010000520	Ceramic	DD108 B 472K 50V
RL1	6330000800	Relay	G5A-237P DC12V
BT1	3020000020	Lithium Battery	BR2032-1T2
EP1 EP2	6910000600 0910024013	Ferrite Bead P.C. Board	FSOH050RN B 2299C (PLL)
EP1	6910000600	Ferrite Bead	FSOH050RN

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[DDS UNIT]

[PA UNIT]

REF. NO.	ORDER NO.	C	ESCRIPTION
IC1	1140000500	IC	SC1051
IC2	1130002600	IC	SC1052
IC3	1130002610	IC	SC1053
IC4	1130002460	IC	TC74HCT374F
IC5	1130002460	iC	TC74HCT374F
X1	6050003230	Crystal	CR-180
L1	6200000040	Coil	LQN 5N 331K
L2	6200000040	Coil	LQN 5N 331K
L3	6200000040	Coil	LQN 5N 331K
	7020000740	Resistor	MCR10EZHJ 1 MΩ (105)
R1	7030000740		MCR10EZHJ 680 Ω (681)
R2	7030000360	Resistor Resistor	MCR10EZHJ 2.2 kΩ (222)
R3 R4	7030000420 7410000320	Resistor Array	
R4 R5	7030000500	Resistor	MCR10EZHJ 10 kΩ (103)
R6	7030000500	Resistor	MCR10EZHJ 10 kΩ (103)
87	7030000500	Resistor	MCR10EZHJ 10 k Ω (103)
	703000300	nearator	
C1	4610000520	Trimmer	TZB04N100BA006
C2	403000950	Ceramic	GRM40 CH 330J 50PT
C3	4030001150	Ceramic	GRM40 F 104Z 25PT
C7	4030000720	Ceramic	GRM40 SL 680J 50PT
C8	4030000560	Ceramic	GRM40 SL 020C 50PT
C9	4030000750	Ceramic	GRM40 SL 121J 50PT
C10	4030000610	Ceramic	GRM40 SL 070D 50PT
C11	403000750	Ceramic	GRM40 SL 121J 50PT GRM40 SL 120J 50PT
C12	403000640	Ceramic	GRM40 SL 1203 50PT
C13	4030000720	Ceramic	GRM40 SL 0003 50F1 GRM40 F 104Z 25PT
C14	4030001150	Ceramic Ceramic	GRM40 F 104Z 25PT
C15	4030001150	Ceramic	GRM40 F 1042 25PT
C16 C17	4030001150	Ceramic	GRM40 F 104Z 25PT
C17	4030001150	Ceramic	GRM40 TH 220J 50PT
C18	4030002430	Ceramic	GRM40 B 102K 50PT
C19 C20	4030001100	Ceramic	GRM40 B 102K 50PT
	4030001100		GHM40 D 102K 30F1
EP1	0910022511	P.C. Board	B 2203A (DDS)
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[PA UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
Q1	1530000790	Transistor	2SC1971
Q2	1530000190	Transistor	2SC3133
Q3	1530000190	Transistor	2SC3133
Q4	1540000200	Transistor	2SD1406 Y
Q5	1530000200	Transistor	2SC2904
Q6	1530000200	Transistor	2SC2904
Q7	1520000060	Transistor	2SB562C
Q8	1590000340	Transistor	RN1202
Q9	1590000340	Transistor	RN1202
Q10	1590000360	Transistor	RN2202
	1700000010		10/2
D1	1790000010	Diode	MV5
D2	1790000010	Diode	MV5
D3	1790000010	Diode	MV5 15CD11
D4	1710000010	Diode	
D5	1710000030	Diode	181555
D6	1710000030	Diode	1S1555
L1	6140001170	Coil	LR-142

REF. NO.	ORDER NO.	DESCRIPTION	
L2	6910000670	Coil	BT01RN1-A61-001
L3	6910000670	Coil	BT01RN1-A61-001
L4	6140001300	Coil	LR-155
L5	6140000610	Coil	LR-83
L6 L7	6140001310 6140002030	Coll Coll	LR-156 LR-230 (SK-10M-15Y 120)
L7 L8	6180001230	Coil	LAL 04NA 8R2K
L9	6180001570	Coil	LAL 04NA 4R7K
L10	6910000670	Coil	BT01RN1-A61-001
L11	6910000670	Coil	BT01RN1-A61-001
L12 L13	6180000880 6910000670	Coil Coil	LAL 03NA 100K BT01RN1-A61-001
L13 L14	6910000670	Coil	BT01RN1-A61-001
L15	6910000670	Coil	BT01RN1-A61-001
L16	6910000670	Coil	BT01RN1-A61-001
L17	6180000900	Coil	LAL 03NA 101K
L18	6180000900	Coil	LAL 03NA 101K
R1	7010000310	Resistor	ELR25J 330 Ω
R2	7010001050	Resistor	R25J 150 Ω
R3	7010000290	Resistor Resistor	ELR25J 220 Ω ELR25J 470 Ω
R4 R5	7010000330 7010004830	Resistor	R50XJ 4.7 Ω
R6	7010004120	Resistor	R20J 270 Ω
R7	7010004730	Resistor	R50XJ 120 Ω
R8	7310000680	Trimmer	RH0651C12J04A (101)
R9	7010000990	Resistor	R25J 47 Ω
R10 R11	7010000990 7010004730	Resistor Resistor	R25J 47 Ω R50XJ 120 Ω
R12	7010004730	Resistor	R50XJ 120 Ω
R13	7010004650	Resistor	R50XJ 10 Ω
R14	7080000650	Resistor	RSS1P 3R3 Ω
R15	7080000650	Resistor	RSS1P 3R3 Q
R16	7080000650 7080000650	Resistor Resistor	RSS1P 3R3 Ω RSS1P 3R3 Ω
R17 R18	7010004730	Resistor	R50XJ 120 Ω
R19	7310000710	Trimmer	RH0651C13J1YA (102)
R20	7010004650	Resistor	R50XJ 10 Ω
R21	7010004650	Resistor	R50XJ 10 Ω
R22 R23	7080000650 7080000650	Resistor Resistor	RSS1P 3R3 Ω RSS1P 3R3 Ω
R23	7070000250	Resistor	CRH200 R-02J 4.7 Ω (4R7)
R25	7010000370	Resistor	ELR25J 1 kΩ
R26	7100000510	Resistor	CP-5AJ 0.012 Ω
R27	7010000370	Resistor	ELR25J 1 kΩ
R28 R29	7010001090 7010004150	Resistor Resistor	R25J 330 Ω R20J 470 Ω
R30	7010004190	Resistor	R20J 1 k Ω
R31	7010003490	Resistor	ELR20J 5.6 kΩ
R32	7510000070	Thermistor	ERT-D2FHL503S
R33	7010003610	Resistor	ELR20J 39 kΩ
R34	7010004020	Resistor	R20J 39 Ω
C1	4010000520	Ceramic	DD108 B 472K 50V
C2	4010000510	Ceramic	DD106 B 222K 50V
C3	4040000250	Barrier Layer Barrier Layer	UAT 08X 473M UAT 08X 473M
C4 C5	4040000250 4040000250	Barrier Layer	UAT 08X 473M
C6	4040000250	Barrier Layer	UAT 08X 473M
C7	4310000110	Mylar	F2D 50V 472K
C8	4310000110	Mylar	F2D 50V 472K
C9	4010000380	Ceramic Barrier Laver	DD107 SL 221J 50V UAT 08X 473M
C10 C11	4040000250 4010000500	Barrier Layer Ceramic	DD104 B 102K 50V
C12	4030001370	Ceramic	GR44 CH 682K
C13	4030001370	Ceramic	GR44 CH 682K
C14	404000250	Barrier Layer	UAT 08X 473M
C15	4040000250	Barrier Layer	UAT 08X 473M
C16 C17	4510002720 4030001340	Electrolytic Ceramic	10 SS 47 μF GR44 CH 102K
C17	4010000420	Ceramic	DD108 SL 391J 50V
C19	4010004070	Ceramic	DD12 SL 221K 500V
C20	4320000220	Dip Mica	DM19C 681J5

[PA UNIT]

[FILTER UNIT]

REF. NO.	ORDER NO.	[DESCRIPTION
C21	4030001340	Ceramic	GR44 CH 102K
C22	4010004070	Ceramic	DD12 SL 221K 500V
C23	4510002640	Electrolytic	25 SS 47 μF
C24	4010000520	Ceramic	DD108 B 472K 50V
C25	4510000310	Electrolytic	16 MS16
			1000 μF (12.5X16)
C26	4040000260	Barrier Layer	UZE 08X 104M
C27	4010000380	Ceramic	DD107 SL 221J 50V
C28	4040000250	Barrier Layer	UAT 08X 473M
C29	4510000310	Electrolytic	16 MS16
			1000 μF (12.5X16)
C30	4040000250	Barrier Layer	UAT 08X 473M
C31	4040000260	Barrier Layer	UZE 08X 104M
C32	4010000380	Ceramic	DD107 SL 221J 50V
C33	4010000520	Ceramic	DD108 B 472K 50V
C34	4510002780	Electrolytic	16 SS 10 µF
C35	4010000520	Ceramic	DD108 B 472K 50V
C36	4510002440	Electrolytic	16 SS 220 μF (8X11) UAT 08X 473M
C37	4040000250	Barrier Layer	DD108 B 472K 50V
C38	4010000520	Ceramic	DD108 B 472K 50V
C39 C40	4010000520 4030001340	Ceramic Ceramic	GR44 CH 102K
C40 C41	4510002640	Electrolytic	25 SS 47 µF
C41 C42	4010000520	Ceramic	DD108 B 472K 50V
042	4010000320	Ceramic	
F1	5210000130	Fuse	FGB 4A
F2	5220000020	Holder	S-N5051
F3	5220000020	Holder	S-N5051
S1	6910000060	Thermostat	OHD-3 90M
SP1	2S10000040	Speaker	CO65K12I0810
		-	104/0005 01 100
MF1	2710000160	Fan Motor	HMK2605-01-100
E D1	6910000600	Ferrite Bead	FSOH050RN
EP1 EP2	6910000600	Ferrite Bead	FSOH050RN
EP2 EP3	6910000600	Ferrite Bead	FSOH050RN
EP4	6910000600	Ferrite Bead	FSOH050RN
EP5	6910000600	Ferrite Bead	FSOH050RN
EP6	6910000600	Ferrite Bead	FSOH050RN
EP13	0910019444	P.C. Board	B 1790D (PA)
EP15	6910000600	Ferrite Bead	FSOH050RN
EP16	6910000600	Ferrite Bead	FSOH050RN
EP20	6910000630	Ferrite Bead	FSOH070RN
EP21	6910000630	Ferrite Bead	FSOH070RN
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[FILTER UNIT]

REF. NO.	ORDER NO.	DESCRIPTION		
D1 .	1710000330	Diode	1K60	
D2	1710000330	Diode	1K60	
D3	1710000030	Diode	1S1555	
D4	1710000030	Diode	1S1555	
D5	1710000030	Diode	1S1555	
D6	1710000030	Diode	1S1555	
D7	1710000030	Diode	1S1555	
D8	1710000030	Diode	1S1555	
D9	1710000030	Diode	1S1555	
L1 L2	6140001990 6140002000	Coil Coil	LR-226 LR-227	
L3	6140001780	Coil	LR-214	

REF. NO.	ORDER NO.		DESCRIPTION
L4	6140001790	Coil	LR-215
L5	6140001800	Coil	LR-216
L6	6140001800	Coil	LR-216 LR-217
L7 L8	6140001810 6140001820	Coil Coil	LR-217
L0 L9	6140002010	Coil	LR-228
L10	6140002020	Coil	LR-229
L11	6110001490	Coil	LA-196
L12	6110001500	Coil	LA-197
L13	6180000900 6180000900	Coil Coil	LAL 03NA 101K LAL 03NA 101K
L14 L15	6180000900	Coil	LAL 03NA 101K
L16	6180000900	Coll	LAL 03NA 101K
L17	6180000900	Coil	LAL 03NA 101K
L18	6180000900	Coil	LAL 03NA 101K
L19 L20	6180000900 6180000900	Coil Coil	LAL 03NA 101K LAL 03NA 101K
L20	6180000880	Coil	LAL 03NA 100K
L22	6180000880	Coil	LAL 03NA 100K
L23	6180000880	Coil	LAL 03NA 100K
L24	6180000880	Coll	LAL 03NA 100K
L25	6180000900	Coil	LAL 03NA 101K LR-170
L26 L27	6140001460 6140001340	Coil Coil	LR-163
R1	7010004010	Resistor	R20J 33 Ω
R2	7010004320	Resistor	R20J 10 kΩ
R3	7010003530	Resistor	ELR20J 10 kΩ
R4	7010003620	Resistor	ELR20J 47 kΩ
R5	7010004320	Resistor	R20J 10 kΩ ELR20J 10 kΩ
R6 R7	7010003530	Resistor Resistor	ELR20J 47 kΩ
R8	7540000010	Absorber	DSA-301LA
R9	7010004390	Resistor	R20J 33 kΩ
C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C28 C29 C29 C29 C29 C20 C21 C22 C23 C22 C22 C22 C22 C22 C22 C22 C22	4010004100 4320000330 4010004030 4320000290 4010004070 4010004070 4010004070 4320000280 4010004070 4010004070 4010004070 4010004070 4010004070 4010004070 4010004070 4010004070 4010004070 4010004050 4010004050 4010004050	Ceramic Dip Mica Ceramic	DD14 SL 331K 500V DM20C 272J5 DD10 SL 121K 500V DM20C 152J5 DD12 SL 221K 500V DD12 SL 121K 500V DD10 SL 121K 500V DD10 SL 121K 500V
C30	4010003960	Ceramic	DD06 SL 390K 500V
C31	4010004050	Ceramic	DD12 SL 181K 500V DD09 SL 101K 500V
C32 C33	4010004010 4010003870	Ceramic Ceramic	DD09 SL 101K 500V DD06 SL 120K 500V
C34	4010003870	Ceramic	DD12 SL 221K 500V
C35	4010003950	Ceramic	DD06 SL 330K 500V
C36	4010004010	Ceramic	DD09 SL 101K 500V
C37	4010003990	Ceramic	DD09 SL 680K 500V DD06 SL 390K 500V
C38 C39	4010003960 4010004040	Ceramic Ceramic	DD06 SL 390K 500V DD10 SL 151K 500V

[FILTER UNIT]

[PB UNIT]

REF. NO.	ORDER NO.	DESCRIPTION		
C40	4010003870	Ceramic	DD06 SL 120K 500V	
C41	4010003990	Ceramic	DD09 SL 680K 500V	
C42	4040000250	Barrier Layer	UAT 08X 473M	
C43	4040000250	Barrier Layer	UAT 08X 473M	
C44	4040000250	Barrier Layer	UAT 08X 473M	
C45	4040000250	Barrier Layer	UAT 08X 473M	
C46	4040000250	Barrier Layer	UAT 08X 473M	
C47	4040000250	Barrier Layer	UAT 08X 473M	
C48	4010000520	Ceramic	DD108 B 472K 50V	
C49	4010000520	Ceramic	DD108 B 472K 50V	
C50	4010000520	Ceramic	DD108 B 472K 50V	
C51	4010000520	Ceramic	DD108 B 472K 50V	
C52	4010000520	Ceramic	DD108 B 472K 50V	
C53	4010000520	Ceramic	DD108 B 472K 50V	
C54	4610001120	Trimmer	CVSSC2001	
C55	4010000410	Ceramic	DD107 SL 331J 50V	
C56	4010000410	Ceramic	DD107 SL 331J 50V	
C57	4010000430	Ceramic	DD109 SL 471J 50V	
C58	4010000430	Ceramic	DD109 SL 471J 50V	
C59	4040000250	Barrier Layer	UAT 08X 473M	
C60	4010000330	Ceramic	DD105 SL 101J 50V	
C61	4010000120	Ceramic	DD104 SL 100D 50V	
C62	4010000330	Ceramic	DD105 SL 101J 50V	
RL1	6330000180	Relay	MZ-12HG	
RL2	6330000180	Relay	MZ-12HG	
RL3	6330000180	Relay	MZ-12HG	
RL4	6330000180	Relay	MZ-12HG	
RL5	6330000180	Relay	MZ-12HG	
RL6	6330000180	Relay	MZ-12HG	
RL7	6330000180	Relay	MZ-12HG	
RL8	6330000180	Relay	MZ-12HG	
RL9	6330000180	Relay	MZ-12HG	
RL10	6330000180	Relay	MZ-12HG	
RL11	6330000180	Relay	MZ-12HG	
RL12	6330000180	Relay	MZ-12HG	
RL13	6330000720	Relay	DS1-M-DC12V (AG2013)	
	00400000000	P.C. Board	B 2207C (FILTER)	
EP1 EP2	0910022833	Ferrite Bead	FSOH070RN	
	091000030	Ferrite Dead		

[PB UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
IC1	1150000570	IC	SC1069
Q1	1530000640	Transistor	2SC2407(A)
Q2	1510000370	Transistor	2SA1359-Y
Q3	1530000110	Transistor	2SC2458-GR
Q4	1590000360	Transistor	RN2202
D1	1710000050	Diode	18853
D2	1790000070	Diode	1SS237
D3	1790000070	Diode	1SS237
D4	1710000300	Diode	MI402
D5	1710000060	Diode	1SS55
D6	1710000060	Diode	1SS55
D7	1710000060	Diode	1SS55
D8	1710000050	Diode	15553
D9	1710000030	Diode	1\$1555
D10	1710000050	Diode	1SS53
D11	1730000160	Zener	RD7.5E B2
L1	6110001770	Coil	LA-266

REF. NO.	ORDER NO.	DESCRIPTION		
L2	6110001640	Coil	LA-247	
L3	6110001650	Coil	LA-248	
L4	6140002040	Coil	LR-231	
L5	6170000180	Coil	LW-19	
L6	6170000180	Coil	LW-19	
L7	6110001640	Coil	LA-247	
L8	6110001650	Coil	LA-248	
L9	6170000180	Coil	LW-19 LA-248	
L10	6110001650 6180000880	Coil Coil	LA-240 LAL 03NA 100K	
L12 L14	6180000880	Coil	LAL 03NA 100K	
L14	010000000	0011		
R1	7010004240	Resistor	R20J 2.7 kΩ	
R2	7010003240	Resistor	ELR20J 47 Ω	
R3	7010003160	Resistor	ELR20J 10 Ω	
R5	7010003330	Resistor	ELR20J 270 Ω	
R6	7010000960	Resistor	R25J 27 Ω	
R7	7010004210	Resistor	R20J 1.5 kΩ	
R8	7010004100	Resistor	R20J 180 Ω	
R9	7010004270	Resistor	R20J 4.7 kΩ	
R11	7010004270	Resistor	R20J 4.7 kΩ R20J 270 Ω	
R13	7010004120	Resistor	DSA-301LA	
R14	7540000010 7010003120	Absorber Resistor	DSA-301LA ELR20J 4.7 Ω	
R15 R18	7010003120	Resistor	ELR20J 4.7 kΩ	
R19	7010003480	Resistor	ELR20J 39 kΩ	
~	101000000	0	DD104 SL 4701 50V	
C1	4010000260	Ceramic Berrier Lever	DD104 SL 470J 50V	
C3	4040000190	Barrier Layer Ceramic	UAT 05X 103K DD108 B 472K 50V	
C4 C5	4010000520 4040000190	Barrier Layer	UAT 05X 103K	
C5 C6	4010000520	Ceramic	DD108 B 472K 50V	
C7	4040000190	Barrier Layer	UAT 05X 103K	
C8	4010000520	Ceramic	DD108 B 472K 50V	
C9	4010000340	Ceramic	DD105 SL 121J 50V	
C10	4010000340	Ceramic	DD105 SL 121J 50V	
C11	4010000340	Ceramic	DD105 SL 121J 50V	
C13	4040000190	Barrier Layer	UAT 05X 103K	
C14	4010000520	Ceramic	DD108 B 472K 50V	
C15	4550000260	Tantalum	DN 1V 100M	
C16	4040000250	Barrier Layer	UAT 08X 473M	
C17	4040000190	Barrier Layer	UAT 05X 103K	
C18	4550000260	Tantalum Coromio	DN 1V 100M DD108 B 472K 50V	
C20 C21	4010000520 4510002020	Ceramic Electrolytic	25 MS7 47 μF	
C21 C22	4010000520	Ceramic	DD108 B 472K 50V	
C22	4610001120	Trimmer	CVSSC2001	
C24	4010000330	Ceramic	DD105 SL 101J 50V	
C25	4010000350	Ceramic	DD106 SL 151J 50V	
C26	4010000380	Ceramic	DD107 SL 221J 50V	
C27	4010000380	Ceramic	DD107 SL 221J 50V	
C28	4040000250	Barrier Layer	UAT 08X 473M	
C29	4010003960	Ceramic	DD06 SL 390K 500V	
C30	4010003900	Ceramic	DD06 SL 200K 500V	
C31	4010004000	Ceramic	DD09 SL 820K 500V	
C32	4010003870	Ceramic	DD06 SL 120K 500V DD07 SL 470K 500V	
C33	4010003970	Ceramic Ceramic	DD07 SL 470K 500V DD108 B 472K 50V	
C34 C35	4010000520 4010003970	Ceramic	DD108 B 472K 50V DD07 SL 470K 500V	
C35 C36	4010003970	Ceramic	DD06 SL 030C 500V	
C36 C37	4010003800	Ceramic	DD07 SL 470K 500V	
C44	4040000150	Barrier Layer	UAT 05X 472K	
C45	4020000250	Cylinder	UP125 X 472M	
C46	4040000250	Barrier Layer	UAT 08X 473M	
C47	4040000190	Barrier Layer	UAT 05X 103K	
C48	4040000250	Barrier Layer	UAT 08X 473M	
C49	4010003930	Ceramic	DD06 SL 270K 500V	
RL1	6330000720	Relay	DS1-M-DC12V (AG2013)	
EP1	6910000970	Ferrite Bead	DL 20P 2.6-3-1.2H	

[PB UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
EP2	6910000970	Ferrite Bead	DL 2OP 2.6-3-1.2H
EP3	6910000970	Ferrite Bead	DL 2OP 2.6-3-1.2H
EP4	0910022883	P.C. Board	B 2206C (PB)
EP6	6910000630	Ferrite Bead	FSOH070RN

[BPF UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
Q1	1560000130	FET	2SK125
D1	1790000070	Diode	155237
L2 L3 L5 L6 L7	6180000670 6180001290 6180002380 6140002050 6110001630	Coil Coil Coil Coil Coil	LAL 02NA R22K LAL 02NA R33K LAL 02NA 2R2K LR-224 LA-246
R1 R2 R3 R4 R5	7010003990 7010003910 7010004410 7010003040 7010004410	Resistor Resistor Resistor Resistor Resistor	R20J 22 Ω R20J 4.7 Ω R20J 47 kΩ ELR20J 1 Ω R20J 47 kΩ
C2 C3 C4 C5 C6 C7 C10 C12	4020000870 402000870 402000840 402000850 4010000250 4010000150 4020000860 4040000150	Cylinder Cylinder Cylinder Cylinder Ceramic Ceramic Cylinder Barrier Layer	UP050 SL 510J UP050 SL 510J UP050 B 181K EP050 Y 103M DD104 SL 430J 50V DD104 SL 150J 50V UP050 SL 430J UAT 05X 472K
EP1	0910023991	P.C. Board	B 2298A (BPF)

[AM·FM UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
IC1	1110000630	IC	MC3357P
1C2	1110001310	IC	μРС577НА
IC3	1110000250	IC	BA401
IC4	1110001320	IC	μРС1037НА
IC5	1110000330	IC	M5218L
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12	1530000591 1590000340 1590000340 1590000340 1590000340 1590000340 1590000340 1590000340 1590000340 1590000340 1530000110 1590000360	Transistor Transistor Transistor Transistor Transistor Transistor Transistor Transistor Transistor Transistor Transistor Transistor	2SC2785 EL RN1202 RN1202 2SC2458-GR RN1202 RN2202 RN1202 RN1202 RN1202 RN1202 2SC2458-GR RN2202
Q12 Q13	1530000110	Transistor	2SC2458-GR
	1550000110	11411515101	2302430-GR

[AM·FM UNIT]

REF.	ORDER	DESCRIPTION						
NO.	NO.		ESCRIPTION					
Q14	1590000340	Transistor	RN1202					
D1	1710000050	Diode	1SS53					
D2	1730000100	Zener	RD5.1E B2					
D3	1710000040	Diode	1\$953					
D4	1710000040	Diode	1\$953					
D8	1720000060	Varicap	1SV50(1)E					
D9	1710000050	Diode	1SS53					
D10	1710000160	Diode	1SS133 1SS133					
D11	1710000160 1710000160	Diode Diode	188133					
D12 D13	1710000160	Diode	188133					
013	1710000100	Diode	100100					
F11	2020000120	Ceramic Filter	CFW455E					
X1 X2	6050001340 6070000010	Crystal Discriminator	CR- 1 CDB455C7A					
	6050000280	Crystal	HC-12/U 9.0105					
Х3	000000200	Urystai	10-1210 2.0100					
LI	6180001710	Coil	LAL 03NA 561K					
L2	6180001680	Coil	LAL 03NA 151K					
L3	6150001200	Coil	LS-133					
L4	6180000950	Coil	LAL 03NA 150K					
L5	6180000880	Coll	LAL 03NA 100K					
L6	6180000880	Coil	LAL 03NA 100K					
L7	6180000900	Coil	LAL 03NA 101K					
L8	6180000900	Coil	LAL 03NA 101K LAL 03NA 102K					
L9	6180000960	Coil						
R1	7010003400	Resistor	ELR20J 1 kΩ					
R2	7010001030	Resistor	R25J 100 Ω					
R3	7010003550	Resistor	ELR20J 15 kΩ					
R4	7010003420	Resistor	ELR20J 1.5 kΩ					
R5	7010003620	Resistor	ELR20J 47 kΩ					
R6	7010003420	Resistor	ELR20J 1.5 kΩ					
R7	7010003550	Resistor	ELR20J 15 kΩ					
R8	7010003580	Resistor	ELR20J 22 kΩ					
R9	7010003540	Resistor	ELR20J 12 kΩ ERT-D2FGL202S					
R10 R11	7510000090 7010003360	Thermistor Resistor	ER1-02FGL2025 ELR20J 470 Ω					
R11 R12	7010003360	Resistor	R20J 2.2 kΩ					
R12	7010004230	Resistor	ELR20J 1 kΩ					
R14	7310000760	Trimmer	RH0651CJ4J01A (223)					
R15	7010004230	Resistor	R20J 2.2 kΩ					
R16	7010003280	Resistor	ELR20J 100 Ω					
B17	7510000120	Thermistor	ERT-D2FGL332S					
R18	7010003510	Resistor	ELR20J 6.8 kΩ					
R19	7010003580	Resistor	ELR20J 22 kΩ					
R20	7010003740	Resistor	ELR20J 470 kΩ					
R21	7010003480	Resistor	ELR20J 4.7 kΩ					
R22	7010003510	Resistor	ELR20J 6.8 kΩ					
R23	7010001320	Resistor	R25J 22 kΩ					
R24	7010004370	Resistor	R20J 22 kΩ ELR20J 1,5 kΩ					
R25	7010003420	Resistor Trimmer	ELR20J 1.5 KD RH0651C13J1YA (102)					
R26 R27	7310000710 7010003420	Resistor	ELR20J 1.5 kΩ					
R27 R28	7010003420	Resistor	R20J 1 kΩ					
R29	7010004190	Resistor	R20J 1.5 MΩ					
R30	7010003400	Resistor	ELR20J 1 k Ω					
R31	7010003780	Resistor	ELR20J 1 MΩ					
R32	7010004190	Resistor	R20J 1 kΩ					
R33	7010003410	Resistor	ELR20J 1.2 kΩ					
R34	7010005090	Resistor	ELR20J 910 Ω					
R35	7010003440	Resistor	ELR20J 2.2 kΩ					
R36	7010003530	Resistor	ELR20J 10 kΩ					
R37	7010004430	Resistor	R20J 68 kΩ					
R38	7010004430	Resistor	R20J 68 kΩ					
R39	7010003640	Resistor	ELR20J 68 kΩ					
R40	7010003950	Resistor	R20J 10 Ω RH0651CS3J2KA (472)					
R41	7310000740	Trimmer						

[AM·FM UNIT]

[AM·FM UNIT]

REF. NO.	ORDER NO.		DESCRIPTION	REF. NO.	ORDER NO.		DESCRIPTION
R42	7010004230	Resistor	R20J 2.2 kΩ	C56	4010000220	Ceramic	DD104 SL 330J 50V
R43	7010004270	Resistor	R20J 4.7 kΩ	C57	4010004840	Ceramic	DD305 F 104Z 12V
R44	7310000750	Trimmer	RH0651C14J2WA (103)	C58	4040000190	Barrier Layer	UAT 05X 103K
R45	7010003530	Resistor	ELR20J 10 kΩ				
R46	7010003470 7310000750	Resistor Trimmer	ELR20J 3.9 kΩ RH0651C14J2WA (103)	EP1	0910019702	P.C. Board	B 1880B (AM • FM)
R47 R48	7010004310	Resistor	R20J 8.2 kΩ				,
R49	7010004370	Resistor	R20J 22 kΩ				
R50	7010003810	Resistor	ELR20J 2.2 ΜΩ				
R51	7010003550	Resistor	ELR20J 15 kΩ				
R52	7010003400	Resistor	ELR20J 1 kΩ				
R53	7310000740	Trimmer	RH0651CS3J2KA (472)				
R54	7010003360	Resistor	ELR20J 470 Ω ELR20J 470 Ω				
R55 R56	7010003360	Resistor Resistor	ELR20J 5.6 kΩ				
R57	7010004520	Resistor	R20J 390 kΩ				
R58	7010004270	Resistor	R20J 4.7 kΩ				
R59	7010004190	Resistor	R20J 1 kΩ				
C1	4010000260	Ceramic	DD104 SL 470J 50V				
C2	4010000520	Ceramic	DD108 B 472K 50V				
C3	4010000810	Ceramic	DD105 CH 300J 50V				
C4	4010000370	Ceramic	DD106 SL 201J 50V				
C5	4040000260	Barrier Layer	UZE 08X 104M				
C6	4040000260	Barrier Layer	UZE 08X 104M				
C7	4010000320	Ceramic Region Lever	DD104 SL 820J 50V UZE 08X 104M				
C8 C9	4510001120	Barrier Layer Electrolytic	25 MS7 4R7 μF				
C10	4010000180	Ceramic	DD104 SL 220J 50V				
C11	4040000250	Barrier Layer	UAT 08X 473M				
C12	4040000460	Barrier Layer	RAU 08SA 821K				
C13	404000250	Barrier Layer	UAT 08X 473M				
C14	4040000250	Barrier Layer	UAT 08X 473M UAT 08X 473M				
C15 C16	4040000250 4040000190	Barrier Layer Barrier Layer	UAT 05X 103K				
C17	4040000260	Barrier Layer	UZE 08X 104M				
C18	4510000960	Electrolytic	10 MS9 47 μF				
C19	4310000110	Mylar	F2D 50V 472K				
C20	4310000110	Mylar	F2D 50V 472K				
C21	4040000250	Barrier Layer	UAT 08X 473M DD108 B 472K 50V				
C22 C23	4010000520	Ceramic Ceramic	DD108 B 472K 50V				
C24	4010000140	Ceramic	DD104 SL 120J 50V				
C25	4010000090	Ceramic	DD104 SL 070D 50V				
C26	4010000940	Ceramic	DD107 CH 101J 50V				
C27	4010000940	Ceramic	DD107 CH 101J 50V				
C28	4010000520	Ceramic Berrier Lever	DD108 B 472K 50V UAT 05X 472K				
C29 C30	4040000150 4010000520	Barrier Layer Ceramic	DD108 B 472K 50V				
C31	4010000460	Ceramic	DD104 B 471K 50V				
C32	4040000250	Barrier Layer	UAT 08X 473M				
C33	4010000520	Ceramic	DD108 B 472K 50V	1 1			
C34	4010000520	Ceramic	DD108 B 472K 50V				
C35	4010000520	Ceramic	DD108 B 472K 50V DD108 B 472K 50V				
C36 C37	4010000520	Ceramic Electrolytic	50 MS7 R47 μF	11			
C38	4310000050	Mylar	F2D 50V 222K	1			
C39	4510001100	Electrolytic	16 MS7 10 μF				
C40	4510001100	Electrolytic	16 MS7 10 µF				
C41	4510001100	Electrolytic	16 MS7 10 μF				
C42	4010000500	Ceramic	DD104 B 102K 50V				
C43	4040000110	Barrier Layer	UAT 04X 222K				
C44	4010000340	Ceramic Electrolytic	DD105 SL 121J 50V 50 MS7 R22 μF				
C45 C46	4510001140	Electrolytic	25 RBP 4.7 μF				
C47	4510001970	Electrolytic	50 MS7 0R1 µF				
C48	4510001160	Electrolytic	50 MS7 1 µF				
C49	4010000330	Ceramic	DD105 SL 101J 50V				
C50	4510001180	Electrolytic	50 MS7 3R3 µF			· ·	
C51	4510001770	Electrolytic	16 RBP 10 μF				
C52	4010000520	Ceramic	DD108 B 472K 50V UP050 SL 470J				
C53 C54	4020000670 4010000500	Cylinder Ceramic	DD104 B 102K 50V	11			
C54 C55	4010000300	Barrier Layer	UAT 04X 152K				
L						<u> </u>	

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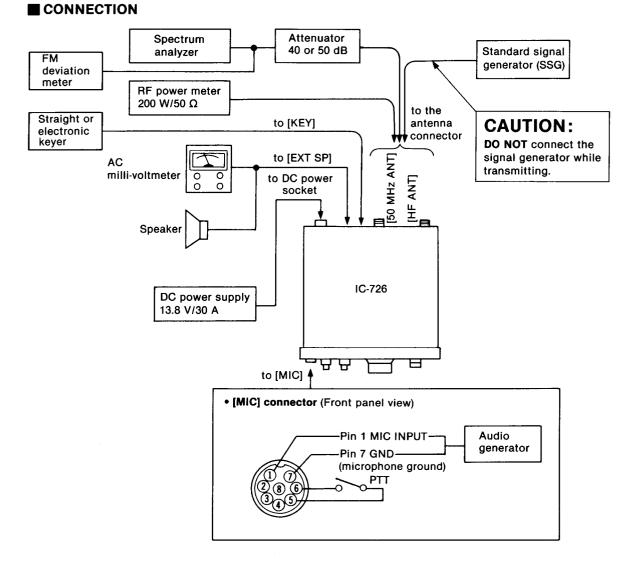
SECTION 6 **ADJUSTMENT PROCEDURES**

6-1 PREPARATION BEFORE SERVICING

REQUIRED TEST EQUIPMENT

EQUIPMENT	GRADE A	ND RANGE	EQUIPMENT	GRADE AND RANGE
DC power supply	Output voltage	: 13.8 V DC	DC voltmeter	Input impedance : 50 k Ω /DC or better
	Current capacity	: 30 A or more	AC milli-voltmeter	Measuring range : 10 mV~10 V
RF power meter (terminated type)	Measuring range Frequency range	: 10∼200 W : 1.8∼50 MHz	External speaker	Impedance : 8 Ω
(terminated type)	Impedance	: 50 Ω	Ammeter	Measurement capability: 1 A and 30 A
	SWR	: Less than 1.2 : 1	Audio generator	Frequency range : 300~3000 Hz
Frequency counter	Frequency range	: 0.1~100 MHz	better Attenuator	Output level : 1~500 mV
	Frequency accuracy Sensitivity	 ±1 ppm or better 100 mV or better 		Power attenuation : 40 or 50 dB Capacity : 150 W or more
RF voltmeter	Frequency range Measuring range	: 0.1~100 MHz : 0.01~10 V	FM deviation meter	Frequency range : 1.8~50 MHz Measuring range : 0~±10 kHz
Oscilloscope	Frequency range Measuring range	: DC~20 MHz : 0.01~10 V	Spectrum analyzer	Frequency range : At least 90 MHz Spectrum bandwidth : ±100 kHz or more
Standard signal generator (SSG)	Frequency range Output level	: 0.1~100 MHz : -127~-17 dBm (0.1 μV~32 mV)		

CW: Clockwise CCW: Counterclockwise



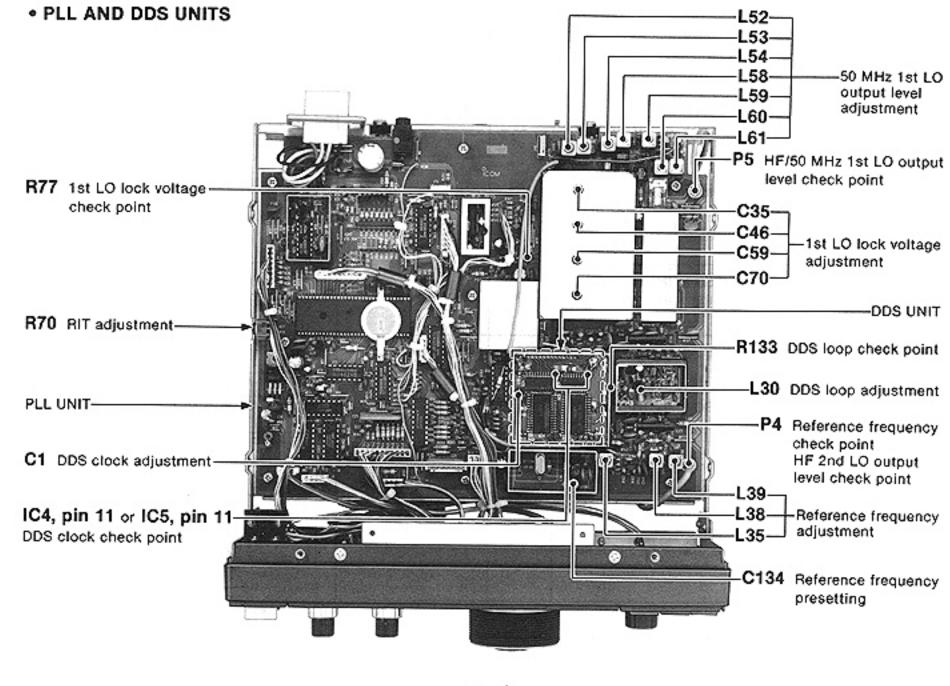
6-2 PLL ADJUSTMENT

ADJUSTMENT			N	IEASUREMENT	VALUE	ADJUSTMENT POINT		
ADJUSTMEI	NT	ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST	
DDS CLOCK	1	Displayed frequency: 14.10000 MHz Mode : USB Receiving	DDS	Connect the frequency counter to IC4, pin 11 or IC5, pin 11.	5.24288 MHz	DDS	C1	
REFERENCE FREQUENCY	1	 Displayed frequency: 14.10000 MHz Mode : USB Ground P4 with a 50 Ω resistor. Receiving 	PLL	Connect the RF voltmeter to P4.	Preset to center as shown below.	PLL	C134	
	2				Maximum level (More than +3 dBm)		L38, L39	
	3			Connect the frequency counter to P4.	61.4400 MHz		L35	
	4	After adjustment, remove the resistor t	from P4 a	Ind re-plug P4.	L			
DDS LOOP	1	Displayed frequency: 14.12650 MHz Mode : AM Receiving	PLL	Connect the oscilloscope to R133 (rear panel side).	1.0 V DC	PLL	L30	
	2	Displayed frequency: 14.12649 MHz			Approx. 2.0 V DC		Verify	
	3	After adjustment, fix the L30 in place v	vith paral	l fin.	I			
HF 1st LO LOCK VOLTAGE	1	Displayed frequency: 7.99999 MHz Mode : USB Receiving	PLL	Connect the oscilloscope to R77 (shielding case side).	6.5 V DC	PLL	C35	
	2	Displayed frequency: 14.99999 MHz			6.5 V DC		C46	
	3	Displayed frequency: 21.99999 MHz			6.5 V DC		C59	
	4	Displayed frequency: 33.00000 MHz			7.5 V DC		C70	
	5	 Displayed frequencies: 0.50000 MHz, 8.00000 MHz 15.00000 MHz and 22.00000 MHz 			More than 2.0 V DC		Verify	
	Connect the RF voltmeter to P5.	Maximum level (More than +3 dBm)	PLL	Adjust in sequence L52, L53 L54, L58 L59, L60 L61				
	2				Adjust the output level within +2 dBm.		Adjust in sequence L58, L59 L60, L61	
	3	After adjustment, remove the resistor t	from P5 a	I and re-plug P5.	<u> </u>			

PLL ADJUSTMENT (CONTINUED)

ADJUSTMENT		ADJUSTMENT CONDITIONS	N	EASUREMENT	VALUE		STMENT
ADDOGTIME			UNIT	LOCATION	VALUE	UNIT	ADJUST
HF 1st LO OUTPUT LEVEL	1	 Displayed frequency: 14.10000 MHz Mode : USB Terminate P5 with a 50 Ω resistor. Receiving 	PLL	Connect the RF voltmeter to P5.	More than 0 dBm	PLL	Verify
	2	After confirmation, remove the resisto	r from P5	and re-plug P5.			
HF 2nd LO OUTPUT LEVEL	1	Displayed frequency: 14.10000 MHz Mode : USB Terminate P4 with a 50 Ω resistor. Receiving	PLL	Connect the RF voltmeter to P4.	Maximum level (More than +3 dBm)) PLL	Verify
	2	After confirmation, remove the resistor	from P4	and re-plug P4.			
RIT	IT 1 • Displayed frequency: 14.10000 MHz Top Speaker Preset to center. • Mode : USB Cover • Attach the SSG to the [HF ANT]	Preset to center.	Front	[RIT] control			
	2	connector and set as: Level : 50 µV* (-73 dBm) Modulation: OFF • [RIT] switch : ON and OFF • Receiving			Same tone pitch on both conditions.	PLL	R70

* This output level of the standard signal generator (SSG) is indicated as SSG's open circuit.

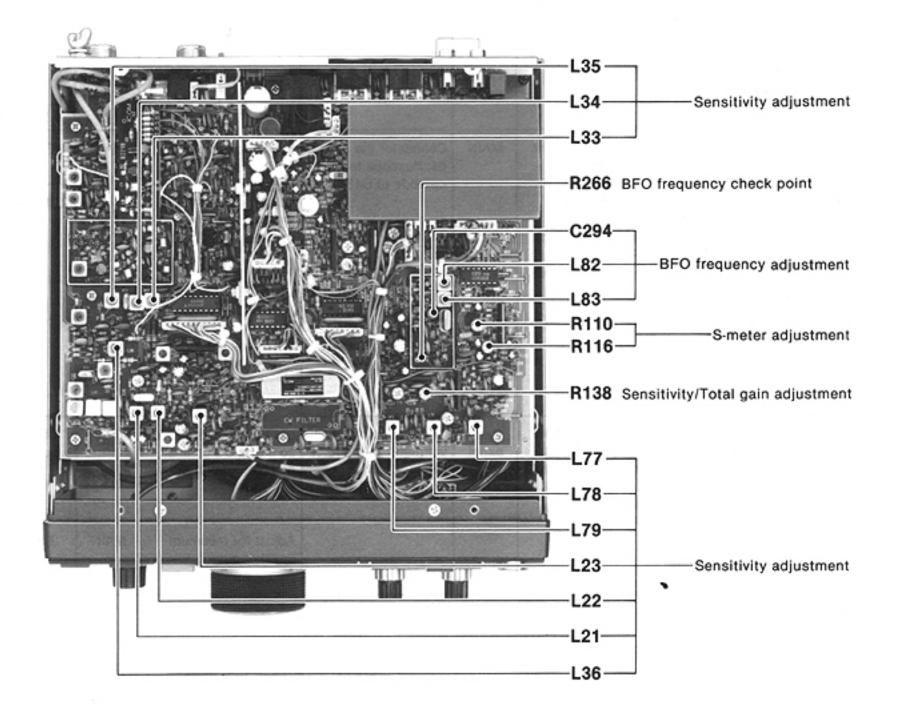


6-3 RECEIVER ADJUSTMENT

,

			N	IEASUREMENT	VALUE	ADJUSTMENT POINT	
ADJUSTMENT BFO 1		ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
BFO FREQUENCY	1	Displayed frequency: 14.10000 MHz Mode : USB Receiving	MAIN	Connect the frequency counter to R266.	9.01300 MHz	MAIN	C294
	2	Mode : CW Transmitting Connect a key to the [KEY] jack and key down.			9.01060 MHz		L83
	3	Mode : LSB Receiving			9.01000 MHz		L82
	4	Mode : CW Receiving			9.00980 MHz (±150 Hz)		Verify
	5	Mode : AM Receiving			No output		
SENSITIVITY	1	Displayed frequency: 14.10000 MHz Mode : USB IOSE	Rear panel	Connect the AC milli- voltmeter to the [EXT	Preset to max. CW.	MAIN	R138
		 [RIT] switch : OFF [AGC] switch : FAST [ATT] switch : OFF [NB] switch : OFF [PRE] switch : ON [SQL] control : Max. CCW Attach the SSG to the [HF ANT] connector and set as: Level : 0.16 µV* (-123 dBm) Modulation: OFF Receiving 		SP] jack with an 8 Ω load.	Maximum audio output level		Adjust in sequence L33, L34, L35, L36, L21, L22, L23, L79, L78, L77
TOTAL GAIN	1	 Displayed frequency: 14.10000 MHz Mode : USB [RIT] switch : OFF [AGC] switch : FAST [ATT] switch : OFF [NB] switch : OFF [PRE] switch : OFF Attach the SSG to the [HF ANT] connector and set as: Level : 1.0 mV* (-47 dBm) Modulation: OFF Receiving 	Rear panel	Connect the AC millivoltmeter to the [EXT SP] jack with an 8 Ω load.	1.0 V (0 dB)	Front panel	[AF] control
	2	Attach the SSG to the [HF ANT] connector and set as: Level : OFF			30 mV (-30 dB)	MAIN	R138
S-METER	Mode [PRE] switch Attach the S connector a Level	 [PRE] switch : OFF Attach the SSG to the [HF ANT] connector and set as: Level : 50 μV* (-73 dBm) Modulation: OFF 	Front panel	S-METER	S9	MAIN	R116
	2	Attact the SSG to the [HF ANT] connector and set as: Level : 50 mV* (-13 dBm)			S9+60 dB		R110
	ļ		L	L			

* This output level of the standard signal generator (SSG) is indicated as SSG's open circuit.



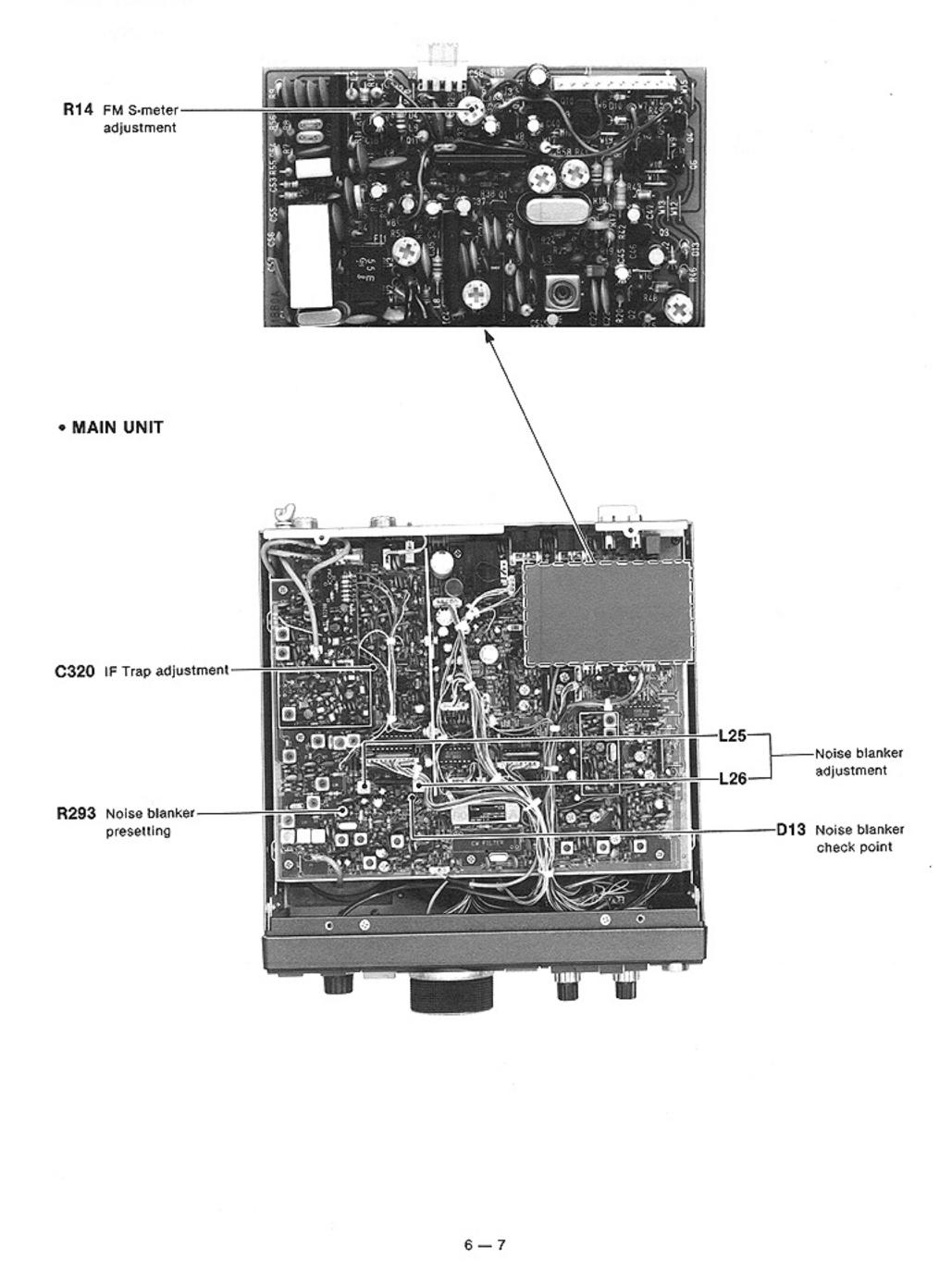
6 - 5

RECEIVER ADJUSTMENT (CONTINUED)

ADJUSTMENT		ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSIME		ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	
FM S-METER	1	 Displayed frequency: 53.00000 MHz Mode : FM Attach the SSG to the [50 MHz ANT] connector and set as: Level : 3.2 mV* (-37 dBm) Modulation: 1 kHz Deviation : ±3.5 kHz Receiving 	Front panel	S-METER	S9+60 dB	AM•FM	R14
NOISE BLANKER	1	Displayed frequency: 14.10000 MHz Mode : USB INB] switch : ON	MAIN	Connector the oscilloscope to the cathode of D13.	Preset to max. CW.	MAIN	R293
	2	 [NB] switch : ON Attach the SSG to the [HF ANT] connector and set as: Level : 3.2 μV* (-97 dBm) Modulation: OFF Apply the following signal into the SSG's output. Receiving 		camode of DTS.	Adjust for maximum waveform on the oscilloscope.		L25, L26
		4 msec.					
IF TRAP	1	 Displayed frequency: 52.90000 MHz Mode : USB Attach the SSG to the [50 MHz ANT] connector and set as: Frequency : 70.45150 MHz 	Rear panel	Connect the AC milli- voltmeter to the [EXT SP] jack with a speaker (8 Ω).	tmeter to the [EXT so that the signal is] jack with a audible through the		SSG's output
		Modulation: OFF			Adjust for minimum speaker output.	MAIN	C320

* This output level of the standard signal generator (SSG) is indicated as SSG's open circuit.

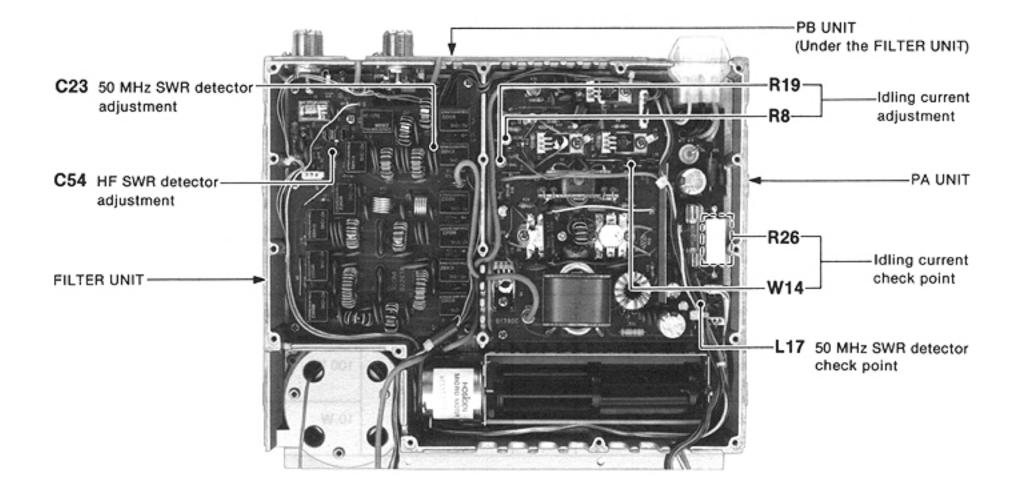
• AM • FM UNIT



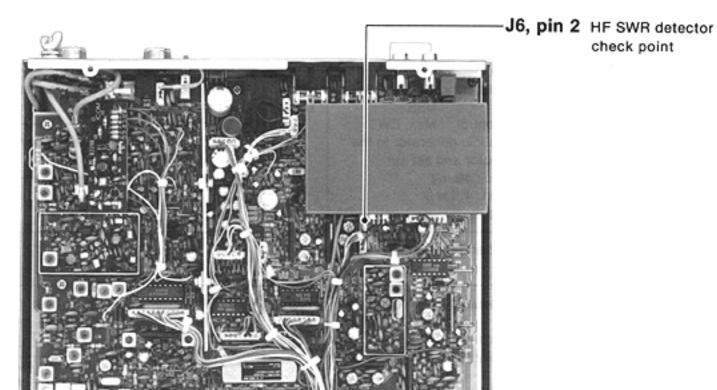
6-4 TRANSMITTER ADJUSTMENT

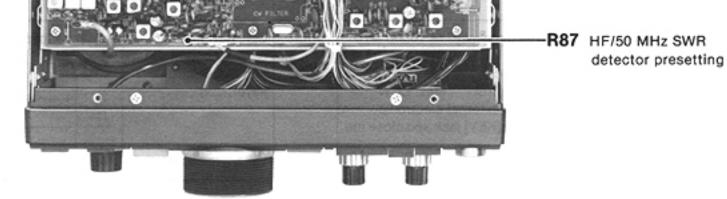
ADJUSTMENT			M	IEASUREMENT	VALUE	ADJUSTMENT POINT		
ADJUSTME			LOCATION	VALUE	UNIT	ADJUST		
IDLING CURRENT (a) For drive transistors	1	Displayed frequency: 14.10000 MHz Mode : CW [TRANSMIT] switch: IN [KEY] jack : No connection	PA	Unsolder W14 and connect the ammeter to the unsoldering points.	50 mA	ΡΑ	R8	
(9) For final transistors	2		PA	Unsolder R26 and connect the ammeter to the unsoldering points. ammeter 0 0 R26 0 R26 0 R26 0 J11 Unsolder PA UNIT	300 mA	PA	R19	
		After adjustment, re-solder W14 and R	26.		L			
HF SWR DETECTOR	1	Displayed frequency: 14.10000 MHz Mode : USB [RF PWR] control : Max. CW Connect the jumper wire between	Rear panel	Connect the RF power meter to the [HF ANT] connector.	100 W	Front panel	[MIC] control	
	2	 R87 (front side) and a ground. Attach the audio generator to the [MIC] connector and set as; Level : 10 mV Modulation: 1.5 kHz Transmitting 	MAIN	Connect the DC voltmeter to J6, pin 2.	Minimum	FILTER	C54	
	3	After adjustment, remove the jumper v	vire from I	R87.	10 m			
50 MHz SWR DETECTOR	1	 Displayed frequency: 52.00000 MHz Mode : USB [RF PWR] control : Max. CW Connect the jumper wire between R87 (front side) and a ground. 	Rear panel	Connect the RF power meter to the [50 MHz ANT] connector.	10 W	Front panel	[MIC] control	
	2	 Attach the audio generator to the [MIC] connector and set as; Level : 10 mV Modulation: 1.5 kHz Transmitting 	FILTER	Connect the DC voltmeter to L17.	Minimum	PB	C23	
	3	After adjustment, remove the jumper v	vire from I	R87.	L			

• PA, FILTER AND PB UNITS



MAIN UNIT





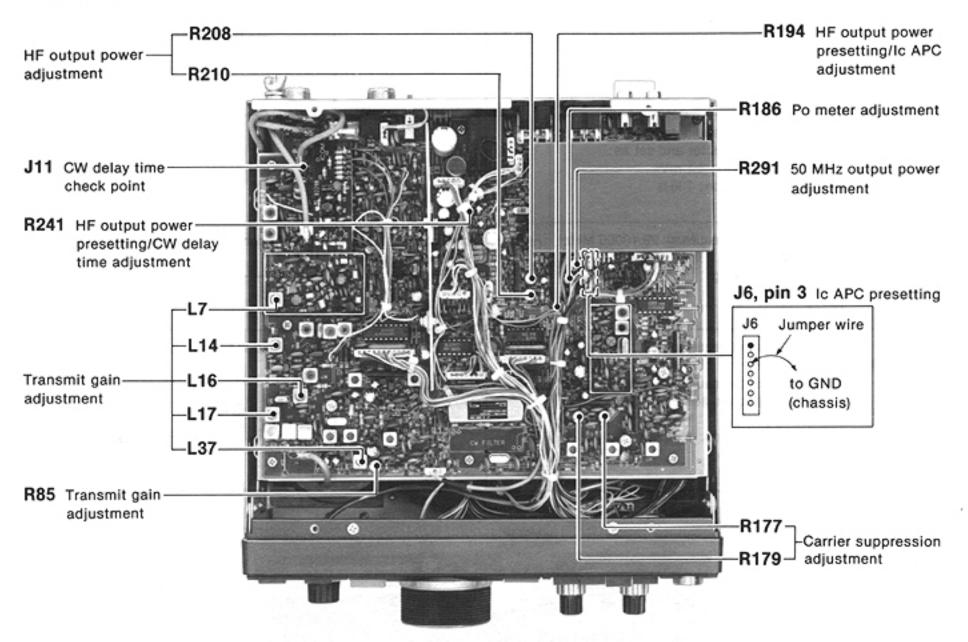
TRANSMITTER ADJUSTMENT (CONTINUED)

ADJUSTMENT		ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
			UNIT LOCATION			UNIT	ADJUST
TRANSMIT GAIN	1	Displayed frequency: 14.10000 MHz Mode : USB [RF PWR] control : Max. CW	Rear panel	Connect the RF power meter to the antenna connector.	Preset to max. CW.	MAIN	R85
		Attach the audio generator to the [MIC] connector and set as: Level : 1 mV			50 W	Front panel	[MIC] control
		Modulation: 1.5 kHz • Transmitting			Maximum level	MAIN	L37, L17 L16, L14 L7
	2	•[MIC] control : Max. CW			50 W		R85
		NOTE: Adjust the [MIC] control to keep	the outp	out power at 50 W for ea	ach adjustment.		
HF OUTPUT POWER	1	 Displayed frequency: 14.10000 MHz Mode : CW [RF PWR] control : Max. CW Connect a key to the [KEY] jack and key down. [RF PWR] control : Max. CCW 	panel pow	Connect the RF power meter to the [HF ANT] connector.	Preset to max. CCW.	MAIN	R194, R241
	2				100 W		R210
	3				10 W		R208
	4	Repeat step 2 and 3 several times.	L		L		
IC APC	1	 Displayed frequency: 14.10000 MHz Mode : CW [RF PWR] control : Max. CW Connect the jumper wire between pin 3 of J6 and a ground. Connect a key to the [KEY] jack and key down. 	Rear panel	Connect the ammeter between the DC power supply and IC-726.	22 A	MAIN	R194
	2	After adjustment, remove the jumper v	vire from	J6, pin 3.			
50 MHz OUTPUT POWER	1	 Displayed frequency: 50.00000 MHz Mode : USB [RF PWR] control : Max. CW Attach the audio generator to the [MIC] connector and set as: 	Rear Connect the RF panel power meter to the [50 MHz ANT] connector.	power meter to the	Preset to max. CCW.	MAIN	R291
	2			Maximum level	Front panel	[MIC] control	
	3	Level : 10 mV Modulation: 1.5 kHz			10 W	MAIN	R291
	4	Repeat step 2 and 3 several times.			L		
Po METER	1	 Displayed frequency: 14.10000 MHz Mode : CW [RF PWR] control : Max. CW Connect a key to the [KEY] jack and key down. 	Front panel	S-METER	100 %	MAIN	R186
CW DELAY TIME	1	 Displayed frequency: 14.10000 MHz Mode : CW [BK IN] switch : ON [DELAY] control : Max. CCW Connect an external electronic keyer to the [KEY] jack and close the key. 	MAIN	Connect the oscilloscope to J11 and the electronic keyer.	Adjust as follows: Keying J11 10 msec.	MAIN	R241

TRANSMITTER ADJUSTMENT (CONTINUED)

ADJUSTMENT		ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
			UNIT	LOCATION	VALUE	UNIT	ADJUSŢ
CARRIER SUPPRESSION	1	 Displayed frequency: 14.10000 MHz Mode : USB and LSB [MIC] control : Max. CCW Apply no signal to the [MIC] connector. Transmitting 	Rear panel	Connect the spectrum analyzer to the antenna connector via the attenuator.	Minimum carrier level (Less than -50 dB)	MAIN	R177, R179 (Alternate adjustment)

MAIN UNIT



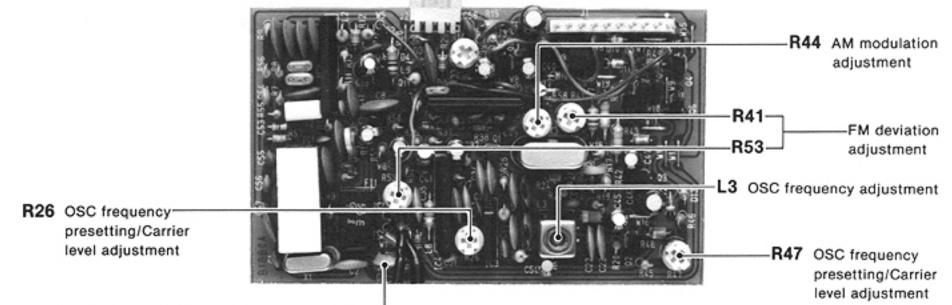


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TRANSMITTER ADJUSTMENT (CONTINUED)

ADJUSTMENT		ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
			UNIT	LOCATION	VALUE	UNIT	ADJUST
OSC FREQUENCY	1	Displayed frequency: 29.10000 MHz Mode : FM	AM•FM	Connect the frequency counter to	Preset to max. CW.	AM•FM	R26
	2	Transmitting		the cathode of D1.	Preset to max. CCW.	1	R47
	3				9.01000 MHz		L3
FM DEVIATION	1	 Displayed frequency: 29.10000 MHz Mode : FM [RF PWR] control : Center Attach the audio generator to the [MIC] connector and set as: Level : 10 mV Modulation: 1 kHz Set the FM deviation meter as: HPF : 50 Hz LPF : 20 kHz De-emphasis: OFF Detector : (P-P)/2 Transmitting 	Rear panel	Attach the FM deviation meter to the [50 MHz ANT] connector via the attenuator.	±4.8 kHz	AM•FM	R41
	2	Attach the audio generator to the [MIC] connector and set as: Level : 1 mV Modulation: 1 kHz			±3.5 kHz		R53
CARRIER LEVEL	1	Displayed frequency: 29.10000 MHz Mode : FM Transmitting	AM•FM	Connect the oscilloscope to the cathode of D1.	Preset to center.	AM•FM	R26
	2				350 mVp-p]	R47
AM MODULATION	1	 Displayed frequency: 29.10000 MHz Mode : AM Attach the audio generator to the [MIC] connector and set as: Level : 10 mV Modulation: 1 kHz Transmitting 	AM•FM	Connect the oscilloscope to the cathode of D1.	100 % modulation	AM•FM	R44

• AM · FM UNIT

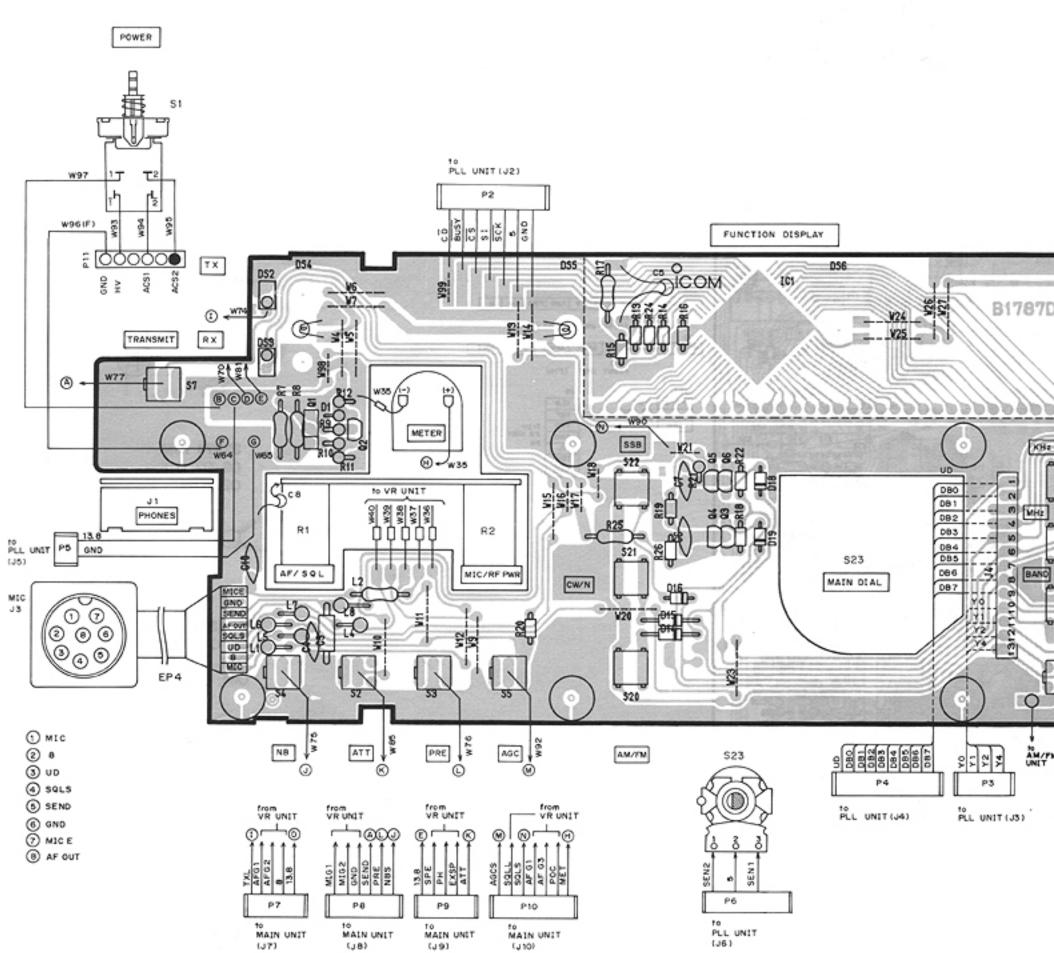


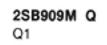
D1 OSC frequency/Carrierlevel/AM modulation/ check point

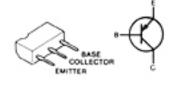
SECTION 7 BOARD LAYOUTS

7-1 FRONT UNIT

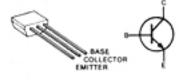
SW UNIT



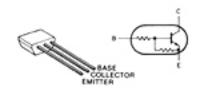




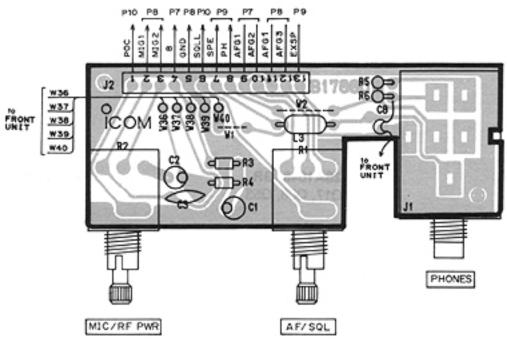
2SC2458 GR Q2, Q3, Q4, Q6

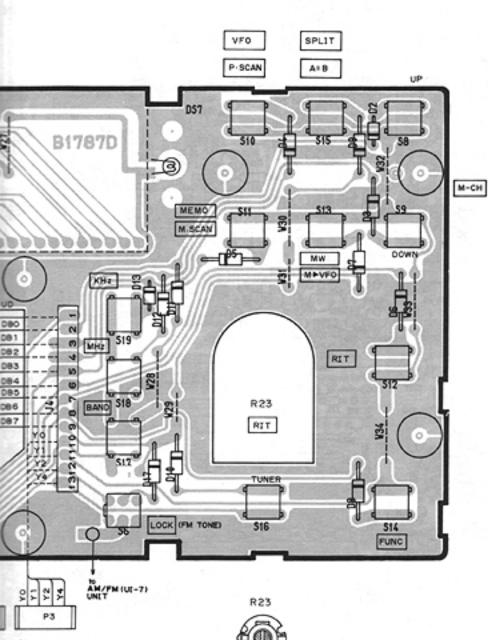


RN1204 Q5

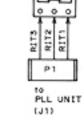






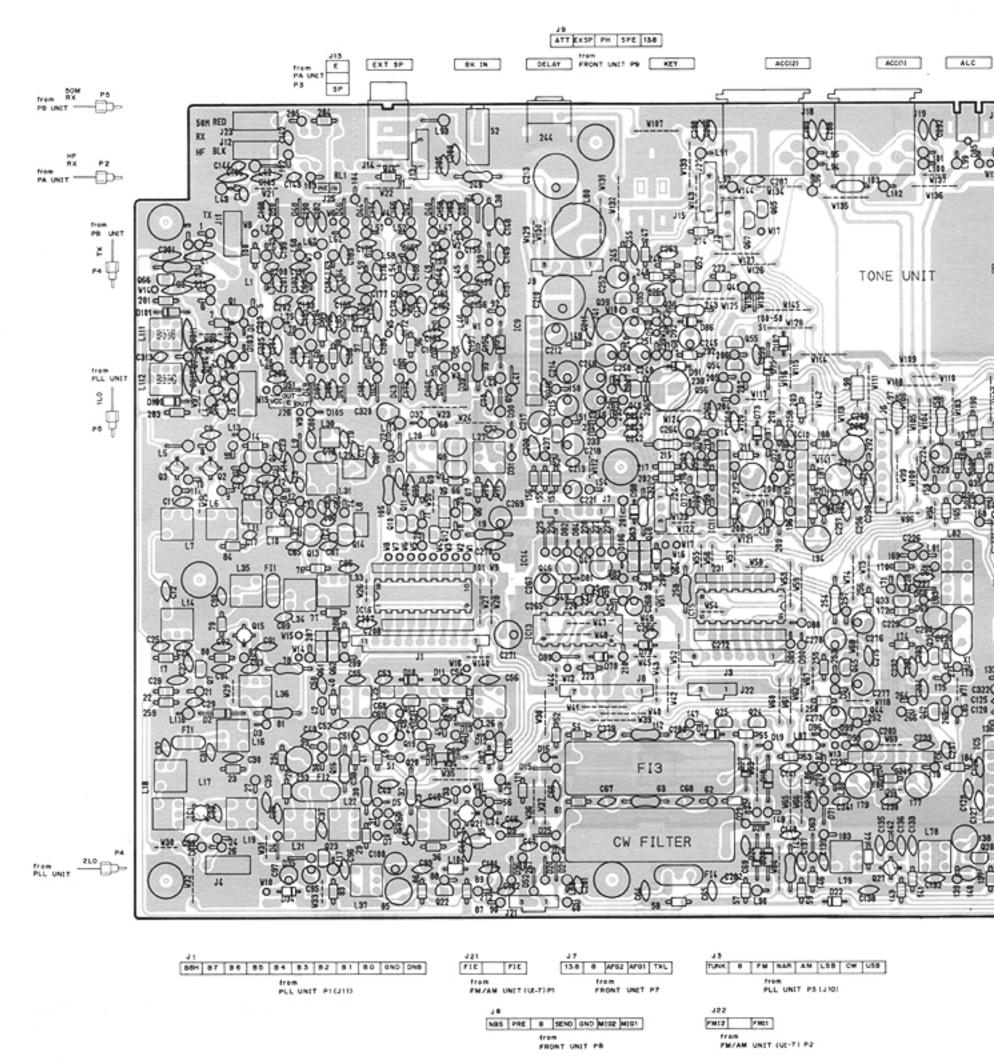


PLL UNIT (J3)



7 — 1

MAIN UNIT



2SA1048 GR Q17, Q38, Q53 2SB909M Q Q5, Q62

2SC2053 Q1, Q4

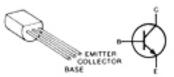
2SC2458 GR

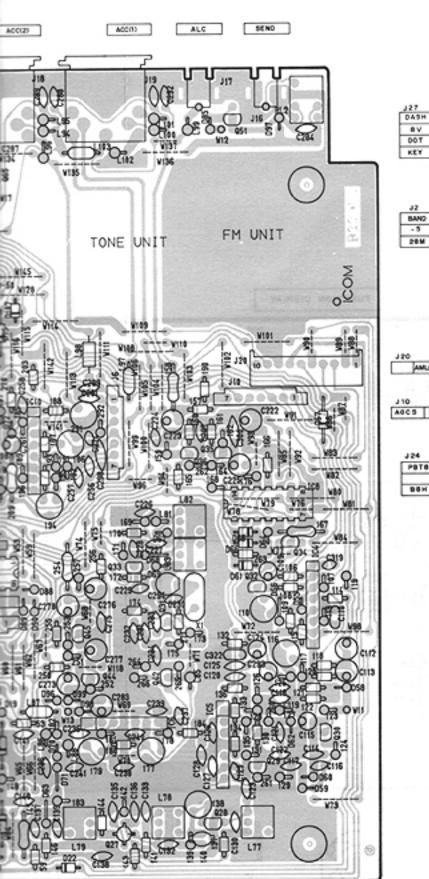
Q11, Q18, Q19, Q26, Q29, Q30, Q31, Q35, Q36, Q37, Q40, Q42, Q44, Q45, Q49, Q50, Q56











750 AMLC OND AF FSM TO AMO FMB RO 0 FM/AM UNIT (US-7) J1 AGCS SOLL SOLS AFOI AFO3 POC NET FRONT UNIT (P10) J 24 36 PBTB frem PB UNIT P2 13.6 REF FOR OND ICL ICH 88H from PA UNET P6

PATO

8V 001

KEY

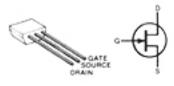
8AND 1708 -5 PLL UNET 28M P2 (J9)



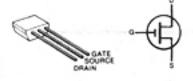
GATE

2SK125

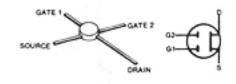




2SK241 Y Q7, Q22, Q28

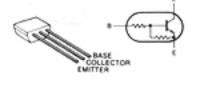


3SK74 K/M Q2, Q3, Q15, Q21, Q27

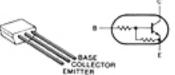


RN1202

Q6, Q12, Q23, Q32, Q34, Q51, Q64, Q65, Q66



RN1204 Q33, Q39, Q54, Q55



NAR AM LSB CW USB

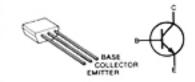
LL UNIT PS (J10)

1

T (UE-7) P2

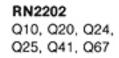
2SC2458 GR

Q11, Q18, Q19, Q26, Q29, Q30, Q31, Q35, Q36, Q37, Q40, Q42, Q44, Q45, Q49, Q50, Q56

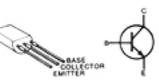


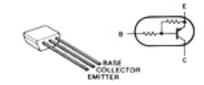
2SD1225M R Q48, Q52, Q61, Q63

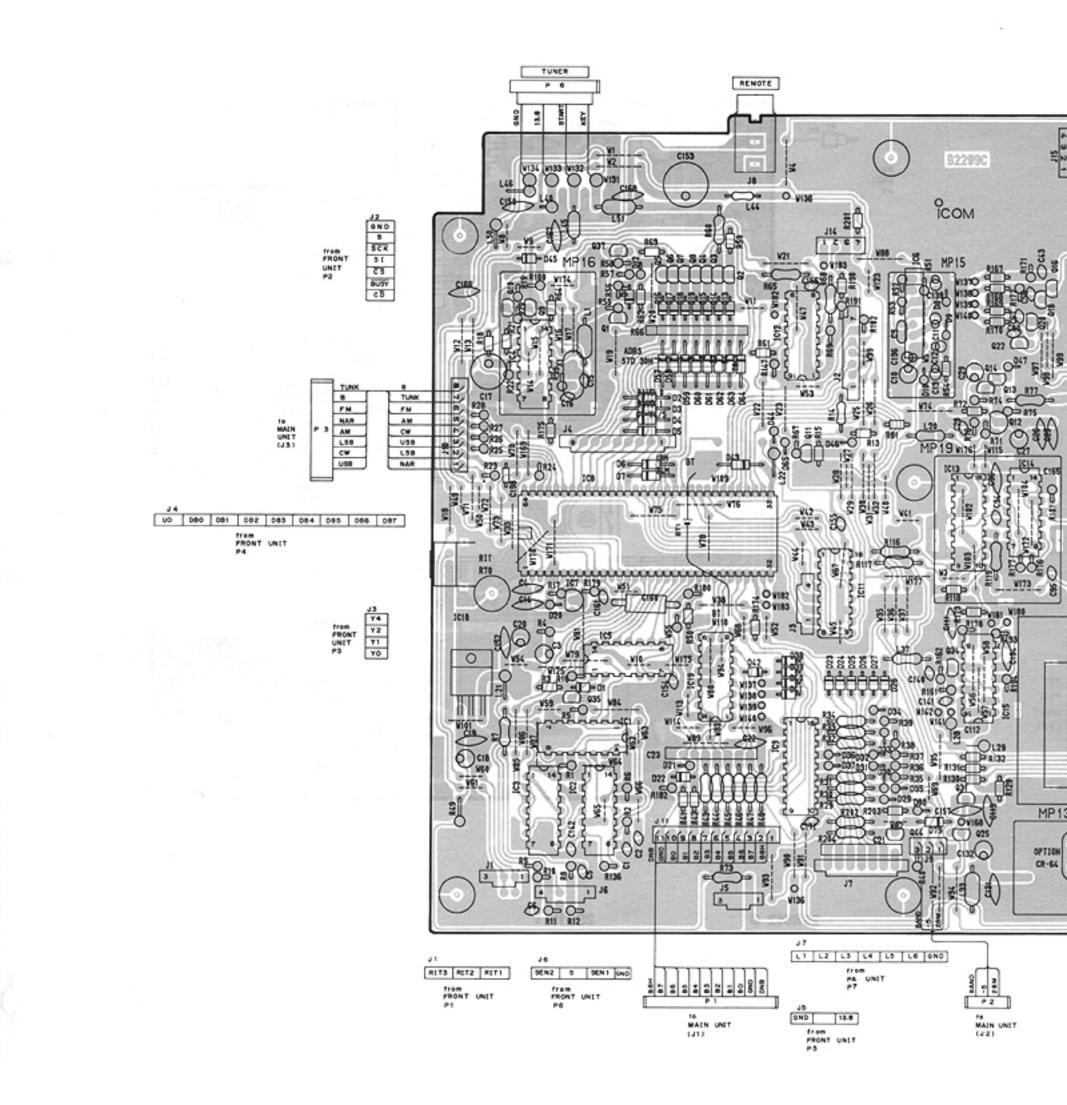








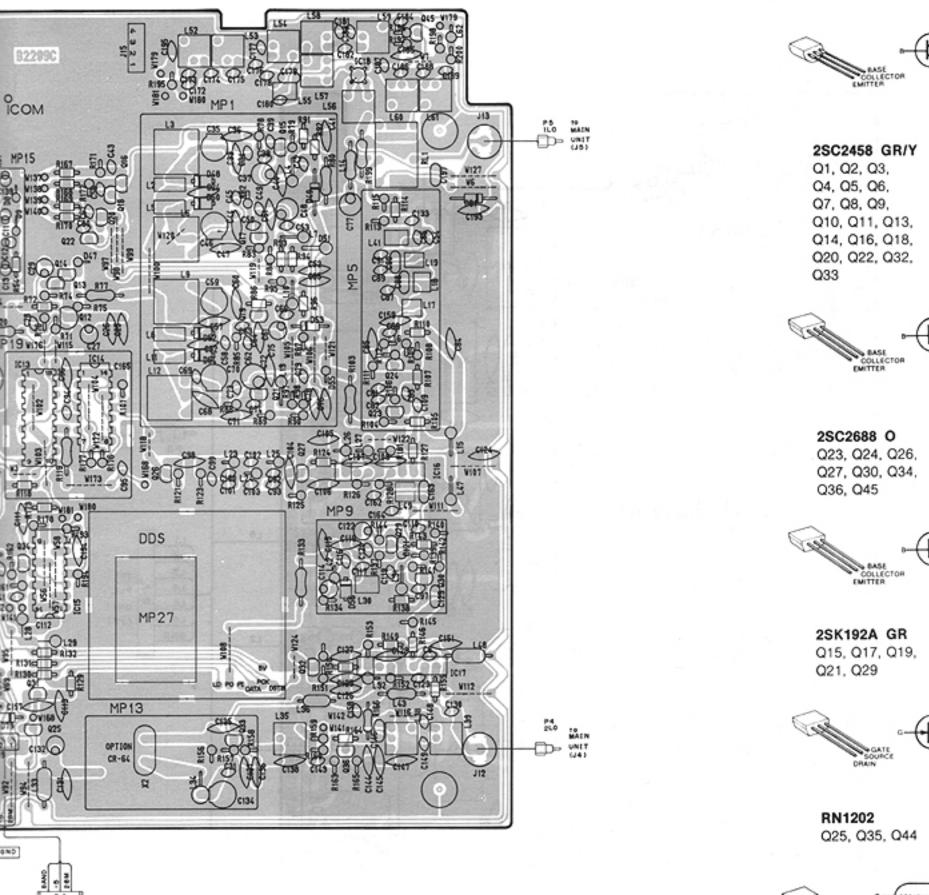




2SA1048 GR Q37

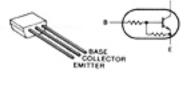


2SC1571G Q12

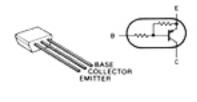


te MAEN UNET (J 2)

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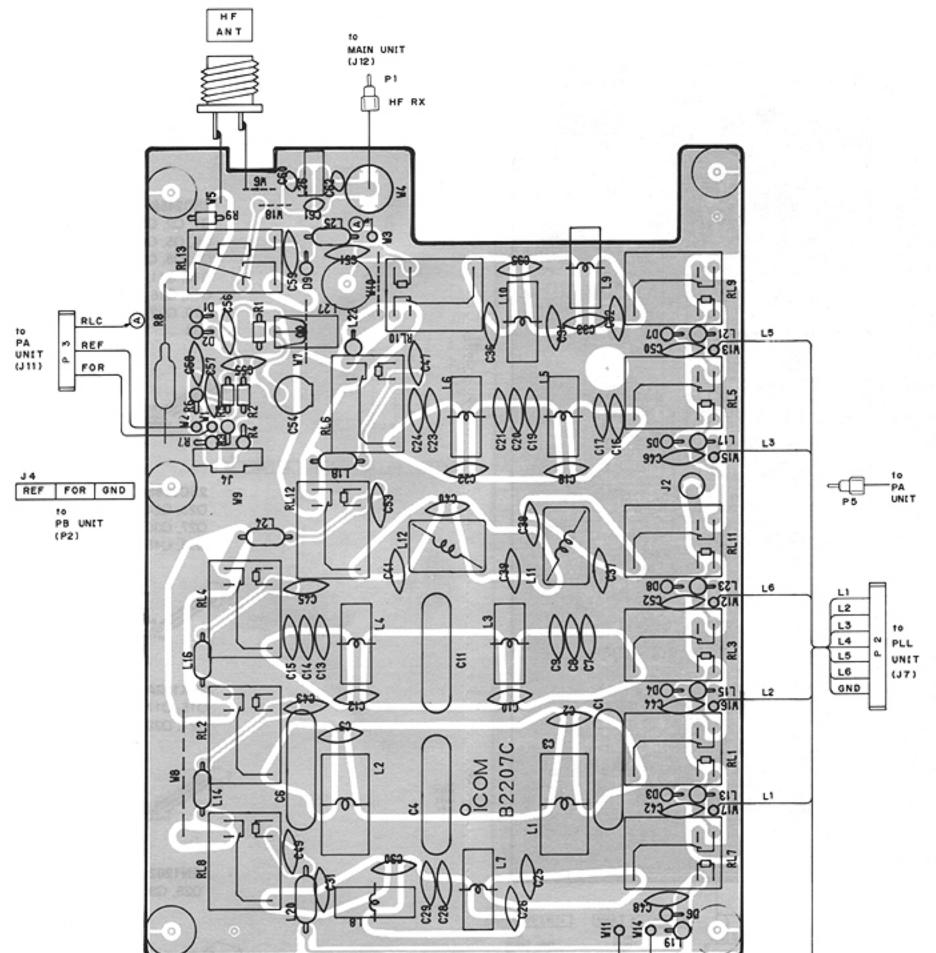


RN2202 Q31



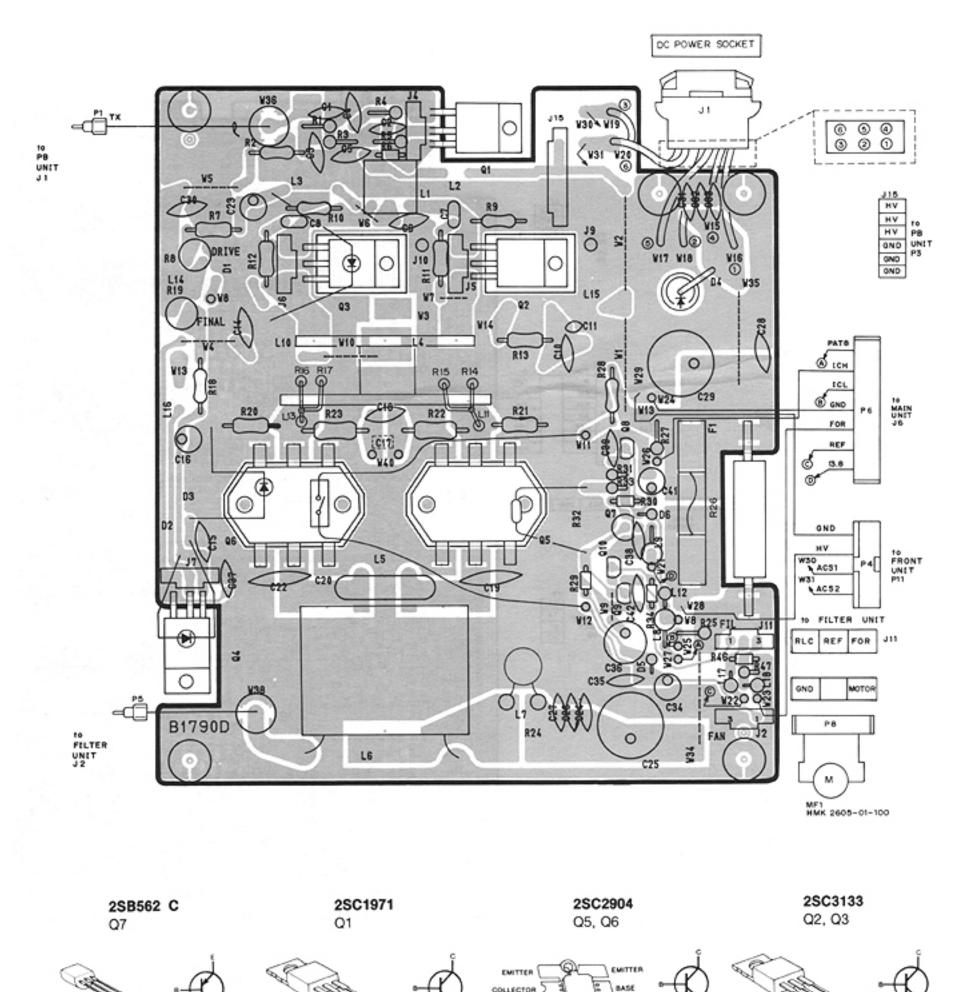
7-4 PA UNIT

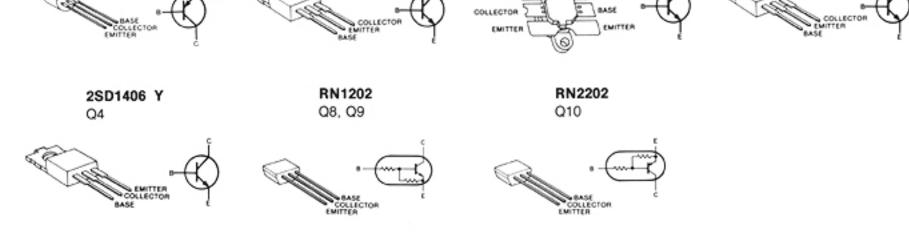
FILTER UNIT





• PA UNIT



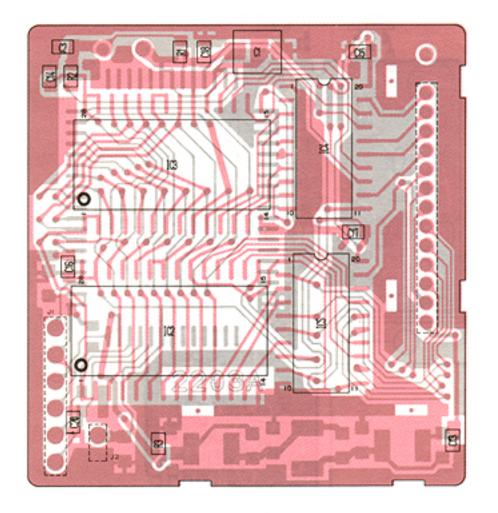


7 — 4

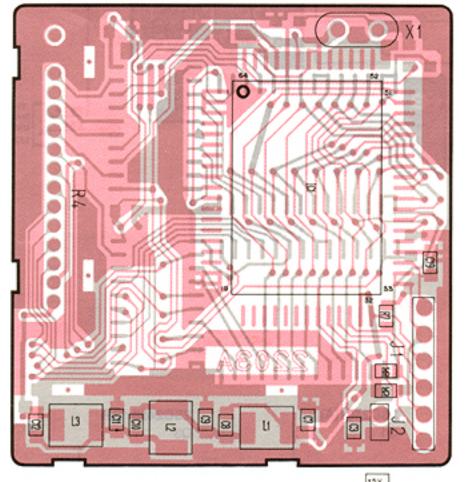
7-5 DDS, AM · FM AND BPF UNITS

DDS UNIT

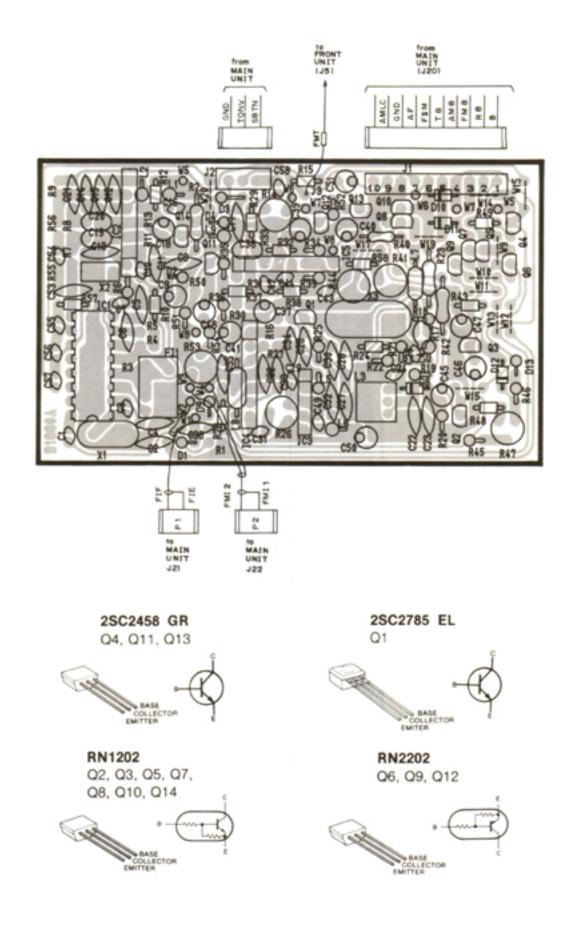
COMPONENT SIDE



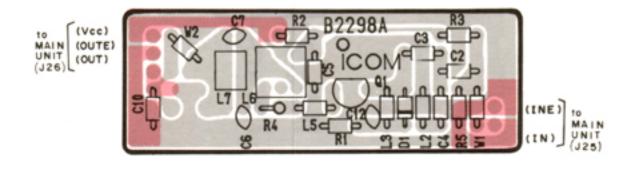
FOIL SIDE



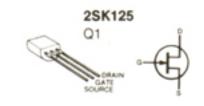
•5V 0ND



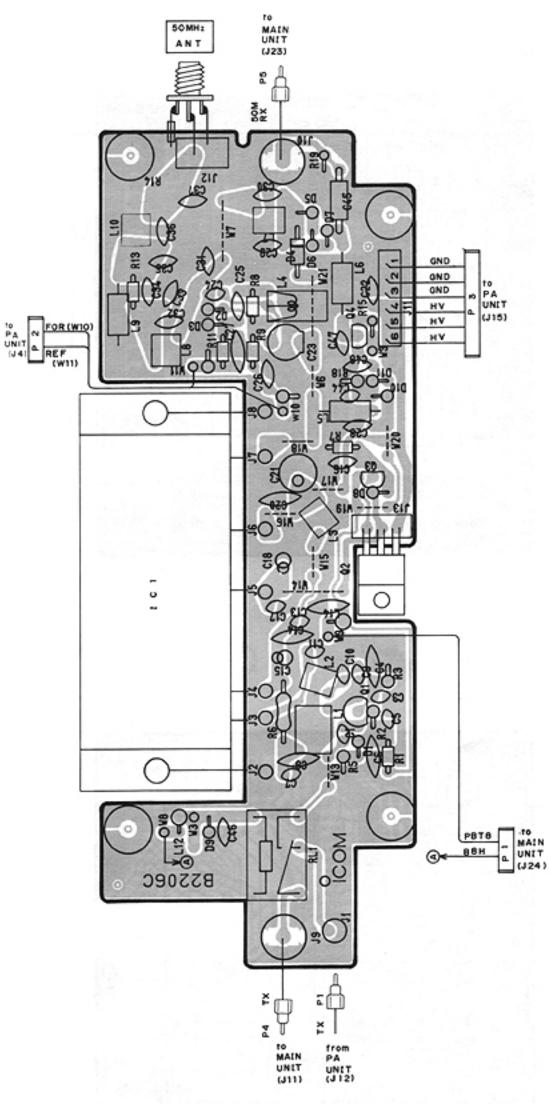
BPF UNIT



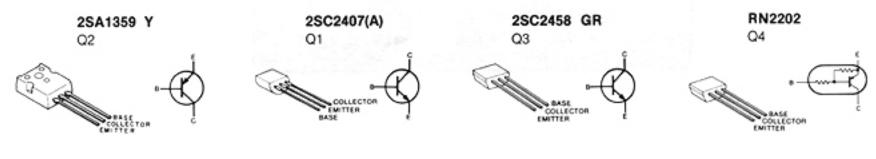
DPF UNIT



7-6 PB UNIT

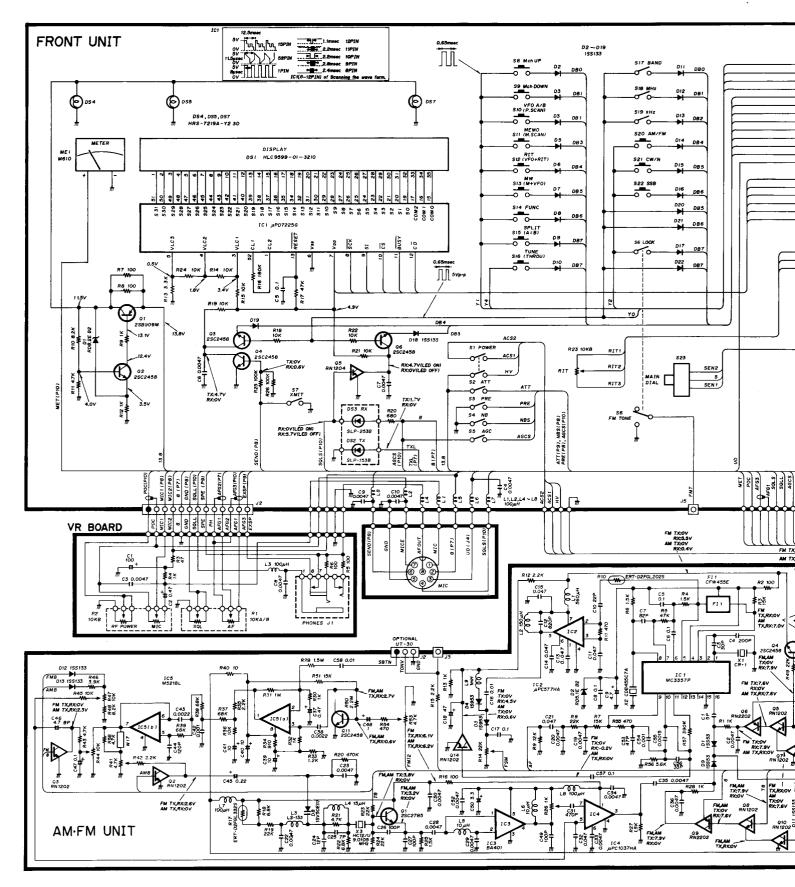


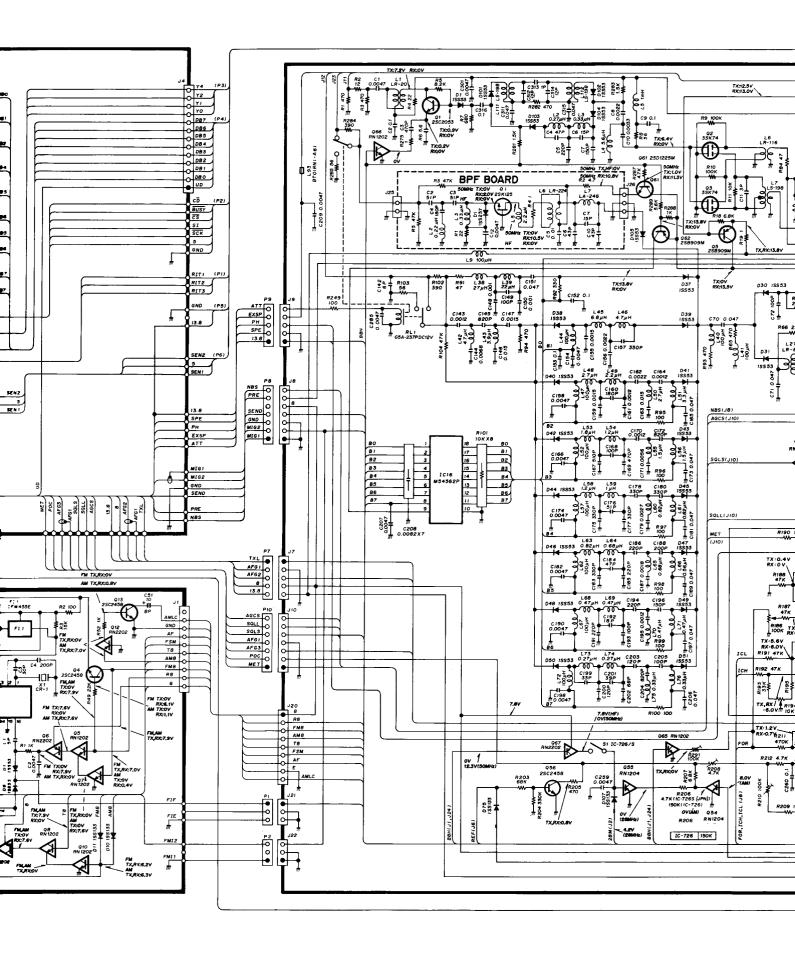
PA UNIT (J12)

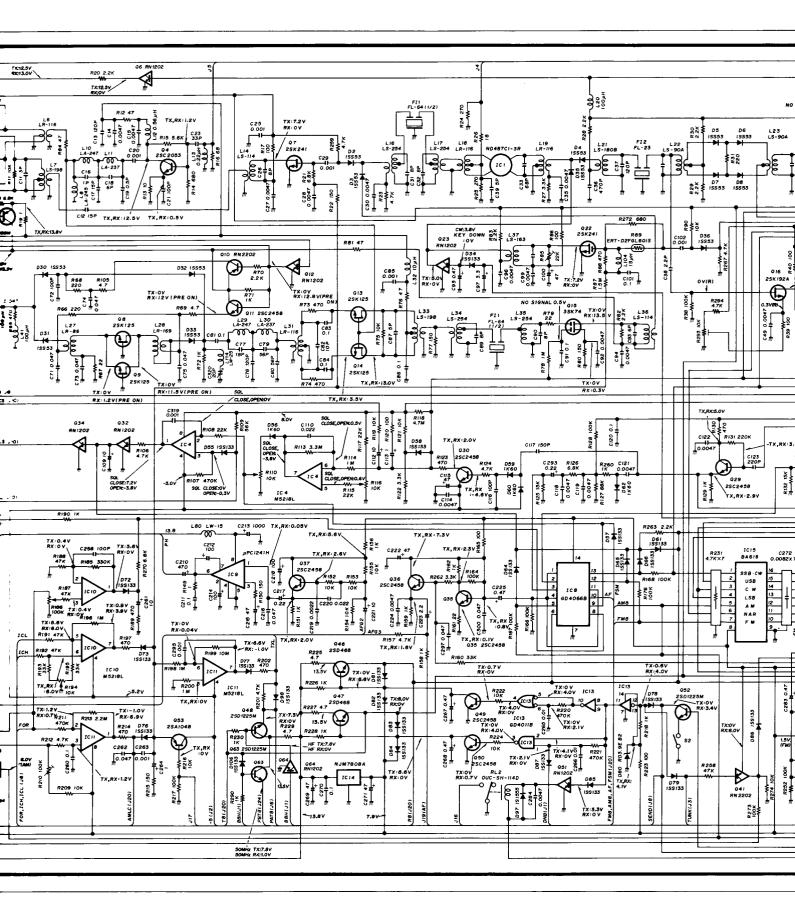


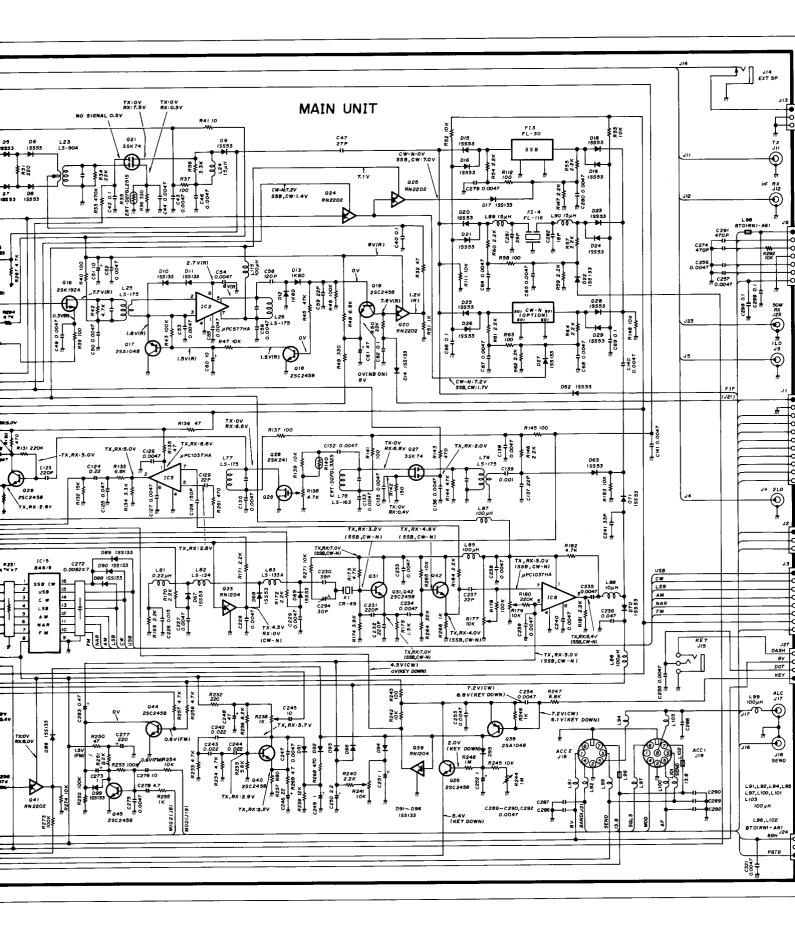
7 - 6

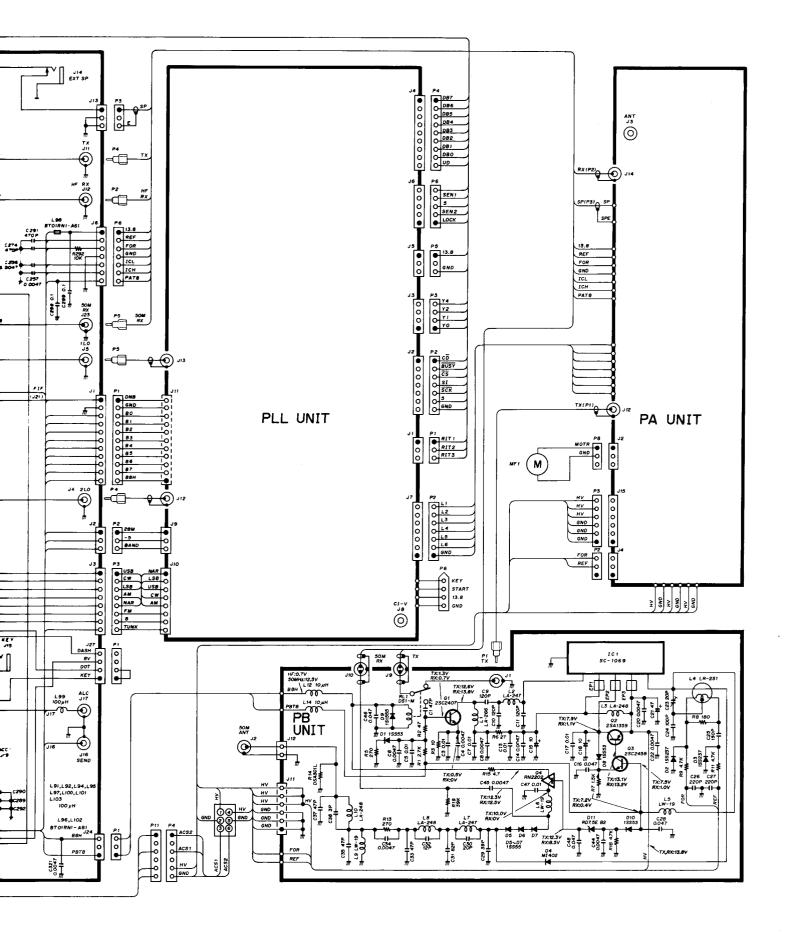
8-1 FRONT AND MAIN UNITS

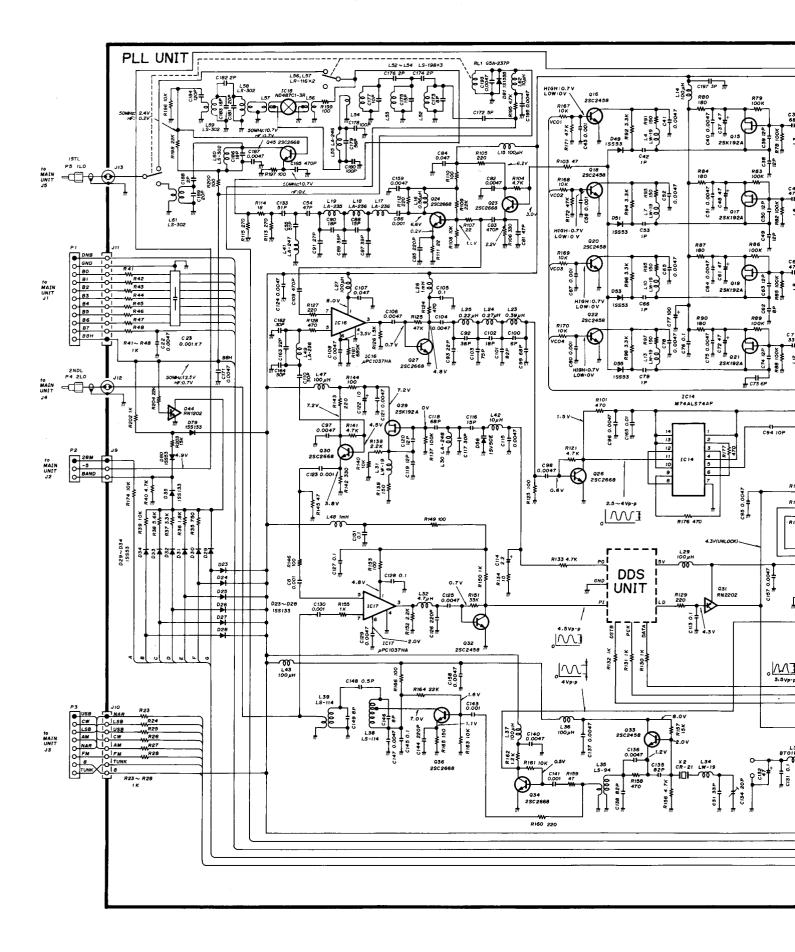


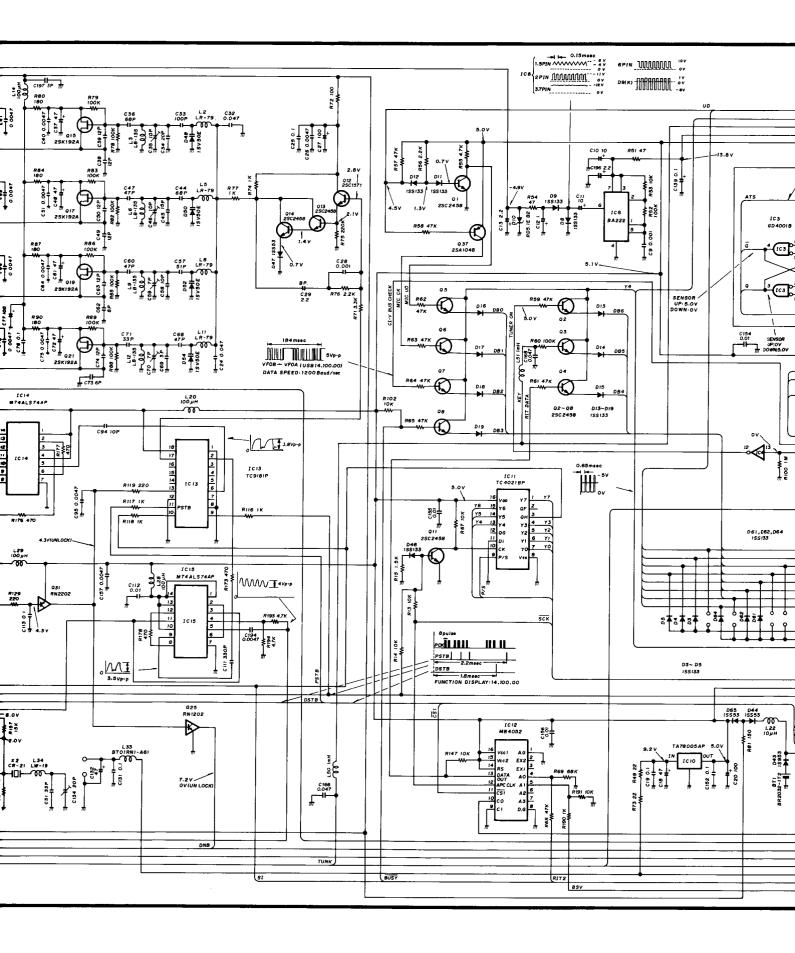


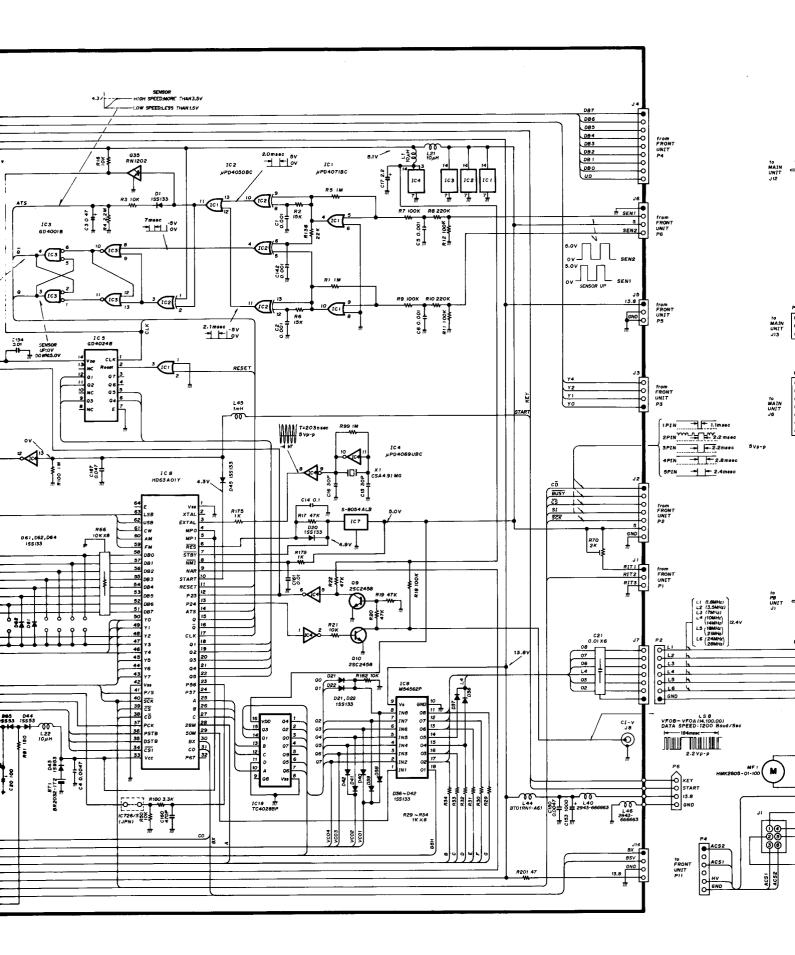


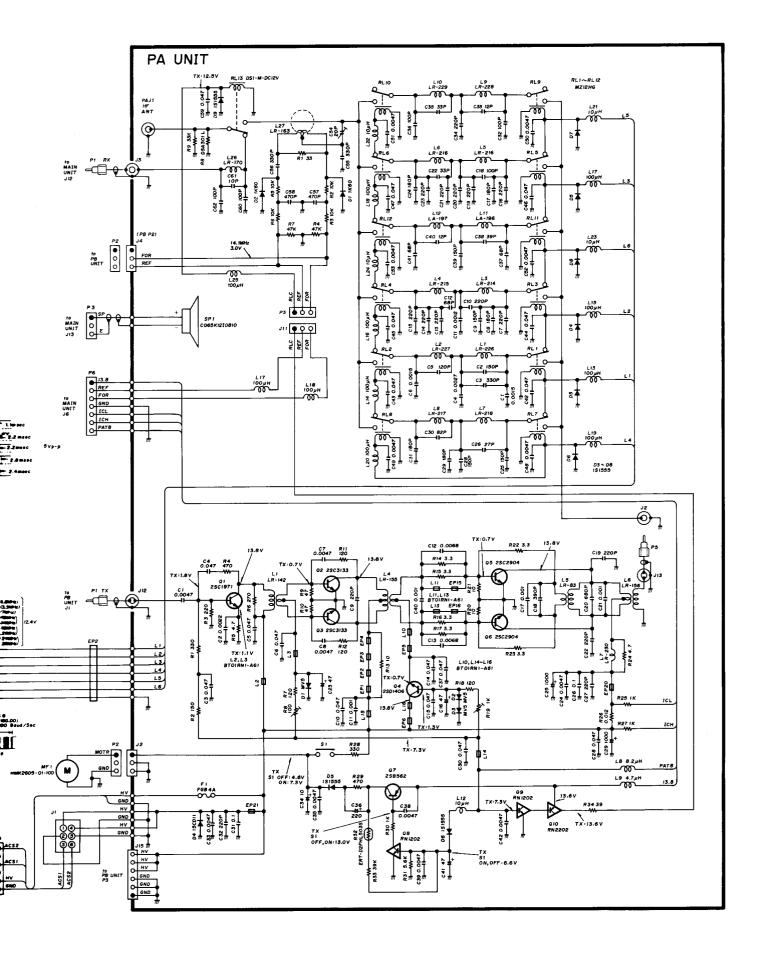












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