MASTER Do Not Remove From Tech Support Area

O ICOM

SERVICE MANUAL

HF/50MHz ALL MODE TRANSCEIVER

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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
- 4. 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

Addresses are provided on the inside back cover for your convenience.

REPAIR NOTE

- 1. Make sure a problem is internal before disassembling the transceiver.
- 2. **DO NOT** open the transceiver until the transceiver is disconnected from the power source.
- 3. **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.
- 5. **DO NOT** keep power ON for a long time when the transceiver is defective.
- 6. **DO NOT** transmit power into a signal generator 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.
- 8. **READ** the instructions of test equipment thoroughly before connecting equipment to the transceiver.

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SECTION 1 SPECIFICATIONS

GENERAL

 Frequency coverage 	:	Receive 50	00 kHz~30 MHz, 50 MHz~54 N	Hz	
		Transmit 16	60-m band 1.8~2.0 MHz	17-m band 18.06	8~18.168 MHz
		8	30-m band 3.5~4.0 MHz	15-m band 21.0	~21.45 MHz
		4	10-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	~54.0 MHz
Modes	:	SSB (A3J), CV	V (A1), AM (A3), FM (F3)		
Number of memory channels		26			
Antenna impedance	:	50 Ω unbalan	ced		
Usable temperature range	:	$-10 °C \sim +6$	0 °C (+14 °F∼+140 °F)		
 Frequency stability 			200 Hz up to one hour after pow	er is turned ON.	
			80 Hz after one hour at +25 °C		
			850 Hz at 0 °C∼+50 °C (+32 °F		
 Power supply requirement 	÷		15 % (negative ground)		
 Current drain (at 13.8 V DC) 	÷		uelched 1.3 A max. audio	output 1.6 A	
) A	output non a	
Dimensions			H)×239 (D) mm 9.5 (W)×3.7 (H) x 9.4 (D) in	
			ot included)	.,,	
Weight		4.8 kg (10.6 lt	,		
	•	4.0 kg (10.0 k			
TRANSMITTER					
Output power	:	SSB, CW, FM	(HF) 100 W max., (50 MHz) 10) W max.	
		AM	(HF) 40 W max., (50 MHz) 4W		
 Spurious emissions 	:	1.8~30 MHz	Less than -50 dB		

	-	
		$50\sim54$ 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

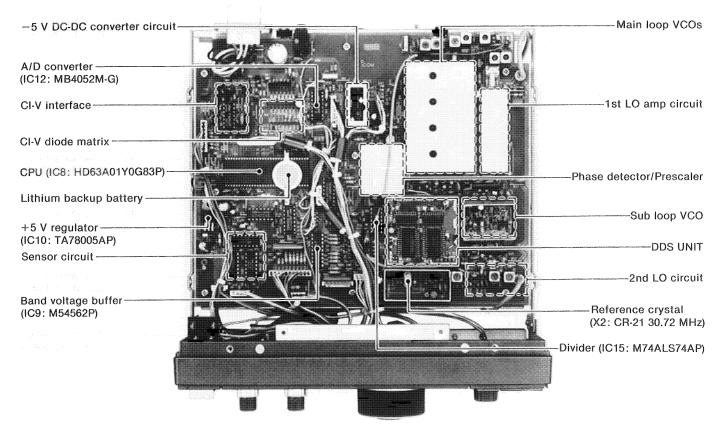
 Receive system 	:	SSB, CW, AM			-
		FM	Triple-conversi	on superhe	eterodyne
 Intermediate frequencies 	:	1st SSB	70.4515 MHz		
		CW	70.4506 MHz		
		AM, FM	75.4500 MHz		
		2nd SSB	9.0115 MHz		
		CW			
			9.0100 MHz		
		3rd FM	455 kHz		
 Sensitivity (preamplifier ON) 	:	(1.8~30 MHz)		e than 0 16	5 μV for 10 dB S/N
· censitivity (preampliner on)	•	(1.0 - 50 10112.)			•
					μV for 10 dB S/N
		(28~30 MHz)			μV for 12 dB SINAD
		(50~54 MHz)	SSB, CW Les	s than 0.13	3 μV for 10 dB S/N
			AM Les	s than 2.0	μV for 10 dB S/N
					μV for 12 dB SINAD
 FM squelch sensitivity (preamplifier ON) 	:	Less than 0.3			
Selectivity	:	SSB. CW Mo	ore than 2.3 kHz/	-6 dB	Less than 4.0 kHz/-60 dB
, , , , , , , , , , , , , , , , , , ,		,	ore than 6.0 kHz/		Less than 20.0 kHz/ -40 dB
			ore than 15 kHz/-		Less than 30 kHz/ -50 dB
				-0 UB	Less man 30 kHz/ - 50 ub
 Spurious response rejection 		More than 70	aв		
 Audio output impedance 	:	8 Ω			
 Audio output power 	:	More than 2.6	W at 10 % disto	rtion with a	an 8 Ω load
RIT variable range	:	More than ± 1			
tanabio tango	•	more man	rtao IVIItaa		

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

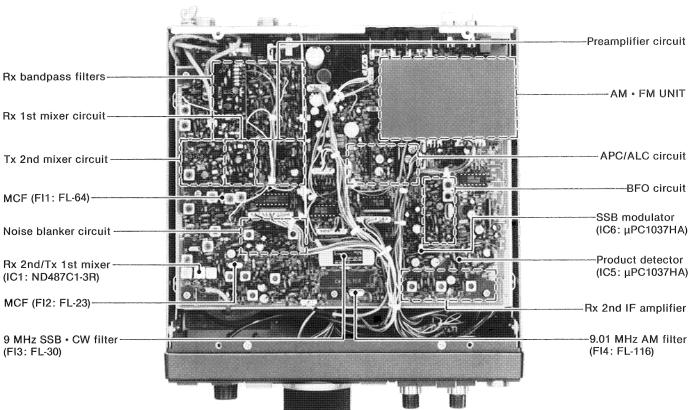
SECTION 2 INSIDE VIEWS

2-1 PLL AND MAIN UNITS

• PLL UNIT

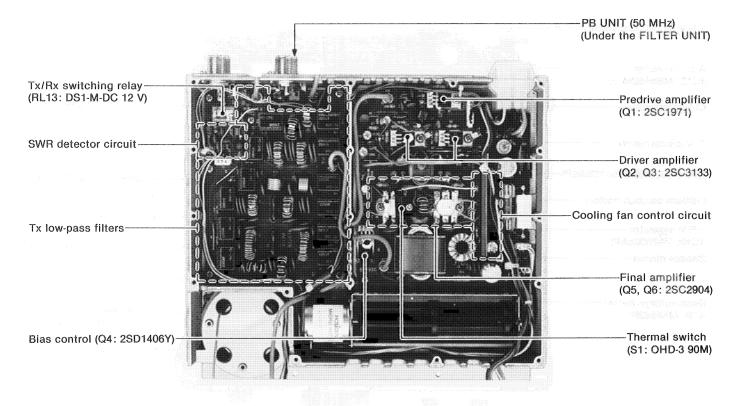


MAIN UNIT



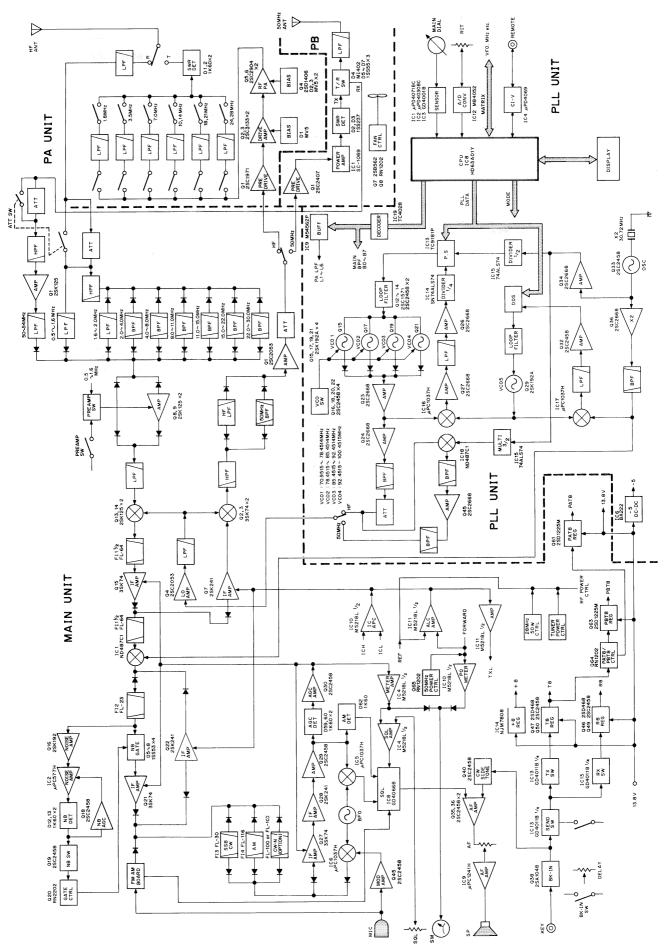
2-2 PA, PB AND FILTER UNITS

이 이상 방법을 받았다.



SECTION 3

3 BLOCK DIAGRAM



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SECTION 4 MECHANICAL PARTS AND DISASSEMBLY

4-1 FRAME DISASSEMBLY

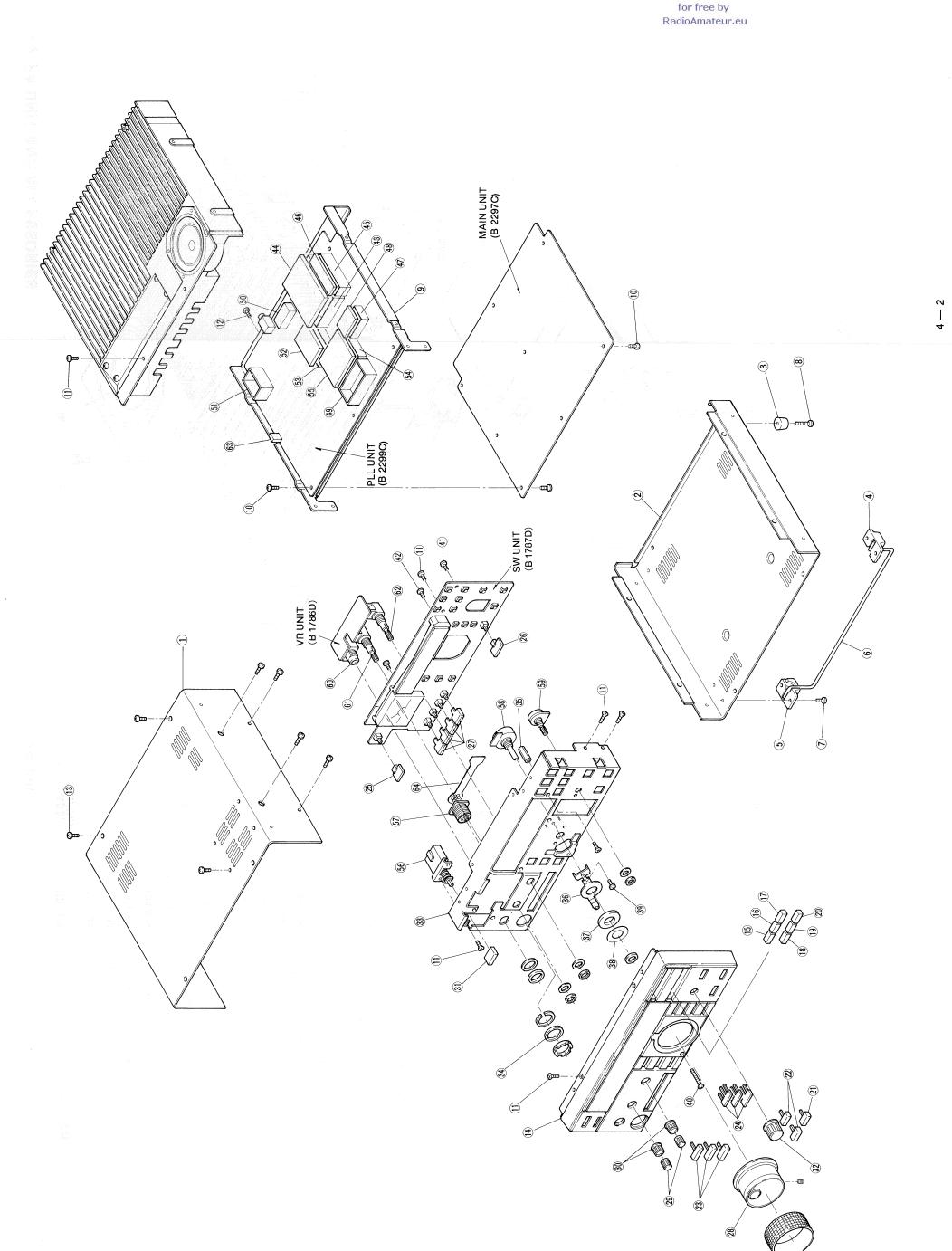
LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.	LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.
1	8110003270	Top cover	1	35	8930000720	Thread spacer (V)	4
2	8110003280	Bottom cover	1	36	8930013990	610 Brake plate	1
3	8930002900	Rubber foot (A)	2	37	8930014030	610 Brake pad	1
4	8930005790	Foot (A)	,1	38	8930013940	610 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
(13)	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
17	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
2 1)	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			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			Variable resistor [MIC/RF PWR]	
30	8610000500	Knob N69 [SQL, RF PWR]	2	62	7210001550	RK1242210032A	1
31	8610001560	Button K42 [POWER]	1			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				

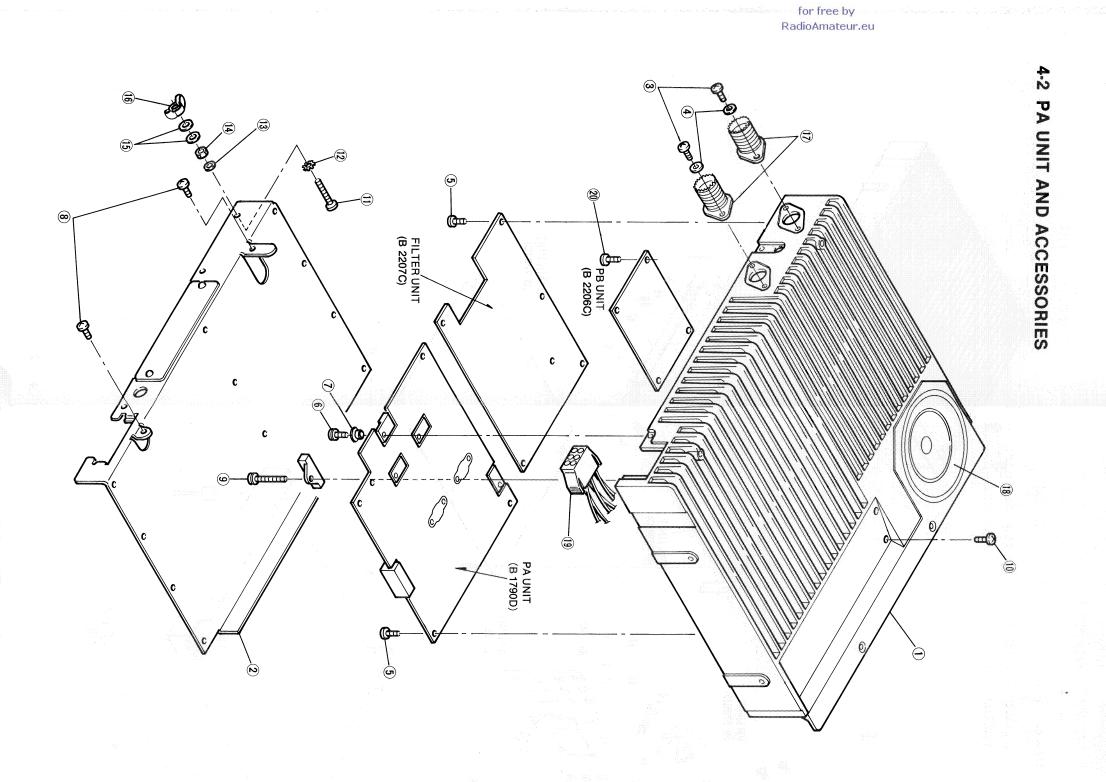
Screw abbreviations

PH: Pan head

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

BS: Brass





• PA UNIT

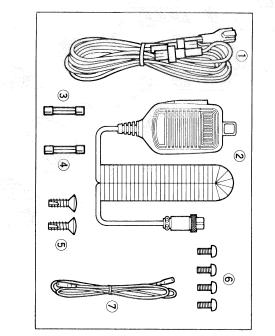
20	(9)	18	0	6	(5	14	3	(12)	٢	0	۹	8	(\mathbf{P})	6	5	4	٢	2	\odot	LABEL
8810001350	6510003780	2510000040	6510004880	8830000360	8850000150	8830000210	8850000440	8850000590	8810001980	8810000220	8810003210	8810003670	6910000310	8810003170	8810001350	8850000420	8810001910	8510005462	8410000781	ORDER NO.
PH B1 M3×6	DC power socket LLR-6	Speaker C065K12I0810	ANT connector MR-DS-E 01	Wing nut M5 Ni	Flat washer M5 Ni BS	Nut M5 Ni BS	Spring washer M5 Ni	Star washer M5	PH M5×16 Ni BS	PH M3×5	Setscrew A M3 × 15	ICOM screw A6	Bushing B312D	Setscrew A M3 x 8	PH B1 M3×6	Spring washer M3 Ni	PH M3×6 Ni BS	PA cover-2	401 Heatsink-1	DESCRIPTION
4	-	-	2		2		-			4		2	1	7	24	4	4			OTY.

 ACCESSORIES ORDER

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

lat	PH: Pan head FH: Flat head	Screw abbreviations	Screv
	Jumper wire #795-AC	8970016530	0
	PH ST M3×6	8810001600	6
	FH B1 M4×12 CR	8810005500	5
	Spare fuse FGB 4A	5210000130	4
	Spare fuse FGB 20A	5210000080	٩
40	Hand microphone HM-12	Optional product	2
	DC power cable OPC-025 A	Optional product	Θ
Ç.	DESCRIPTION	ORDER NO.	NW851

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SECTION 5 PARTS LIST

[FRONT UNIT]

[FRONT UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION	REF. NO.
IC1	1130000790	IC	μPD7225G	C1
				C2 C3
Q1	1520000230	Transistor	2SB909M Q	C4
Q2	1530000110	Transistor	2SC2458-GR	C5
Q3	1530000110	Transistor	2SC2458-GR	C6
Q4	1530000110	Transistor	2SC2458-GR	C7
Q5	1590000350	Transistor	RN1204	C8
Q6	1530000110	Transistor	2SC2458-GR	C9
				C10
D1	1730000180	Zener	RD8.2E B2	DC1
D2 D3	1710000160	Diode Diode	1SS133 1SS133	DS1 DS2
D3 D4	1710000160	Diode	155133	DS2 DS3
D5	1710000160	Diode	1SS133	DS4
D6	1710000160	Diode	1SS133	DS5
D7	1710000160	Diode	1SS133	DS7
D8	1710000160	Diode	1SS133	
D9	1710000160	Diode	1SS133	
D10	1710000160	Diode	1SS133	ME1
D11	1710000160	Diode	1SS133	
D12	1710000160	Diode	1\$\$133	
D13	1710000160	Diode	1SS133	S1
D14	1710000160	Diode	1SS133	S2
D15	1710000160	Diode	1SS133	S3
D16	1710000160	Diode	1SS133	S4
D17	1710000160	Diode	1SS133	S5
D18 D19	1710000160	Diode Diode	1SS133	S6 S7
019	1710000180	Diode	1SS133	- S7 - S8
L1	6180000900	Coil	LAL 03NA 101K	00
L2	6180000900	Coil	LAL 03NA 101K	S10
L3	6180000900	Coil	LAL 03NA 101K	S11
L4	6180000900	Coil	LAL 03NA 101K	S12
L5	6180000900	Coil	LAL 03NA 101K	S13
L6	6180000900	Coil	LAL 03NA 101K	S14
L7	6180000900	Coil	LAL 03NA 101K	S15
L8	6180000900	Coil	LAL 03NA 101K	S16
				S17
D 4	7040004000	Mariable Desisters		S18
R1 R2	7210001320	Variable Resistor	RK124221002DA (AF/SQL) RK1242210032A 10KB •	S19 S20
n2	7210001550	variable Resistor	10KB (MIC/RF PWR)	S20
R3	7010004030	Resistor	R20J 47 Ω	S22
R4	7010004190	Resistor	R20J 1 kΩ	S23
R5	7010003280	Resistor	ELR20J 100 Ω	
R6	7010003280	Resistor	ELR20J 100 Ω	
R7	7010004720	Resistor	R50XJ 100 Q	
R8	7010004720	Resistor	R50XJ 100 Ω	EP1
R9	7010003400	Resistor	ELR20J 1 kΩ	EP2
R10	7010003520	Resistor	ELR20J 8.2 kΩ	EP3
R11	7010003480	Resistor	ELR20J 4.7 kΩ	EP4
R12	7010003400	Resistor	ELR20J 1 kΩ	EP5
R13	7010004250	Resistor	R20J 3.3 kΩ	EP9
R14	7010004320	Resistor	R20J 10 kΩ	EP10 EP11
R15	7010004320	Resistor	R20J 10 kΩ	EPII
R16 R17	7010004480 7010004410	Resistor Resistor	R20J 180 kΩ R20J 47 kΩ	
R17	7010004410	Resistor	R20J 47 kΩ R20J 10 kΩ	
R19	7010004320	Resistor	R20J 10 kΩ	
R20	7010004020	Resistor	R20J 680 Ω	
R21	7010004320	Resistor	R20J 10 kΩ	
R22	7010004320	Resistor	R20J 10 kΩ	
R23	7210000570	Variable Resistor		
R24	7010004320	Resistor	R20J 10 kΩ	
R25	7010001400	Resistor	R25J 100 kΩ	
R26	7010004450	Resistor	R20J 100 kΩ	

•	ORDER NO.		DESCRIPTION
	4510000970	Electrolytic	10 MS9 100 μF
	4510001150	Electrolytic	50 MS7 R47 μF
	4010000520	Ceramic	DD108 B 472K 50V
	4010000520	Ceramic	DD108 B 472K 50V
	4040000260	Barrier Layer	UZE 08X 104M
	4010000520	Ceramic	DD108 B 472K 50V
			DD108 B 472K 50V
	4010000520	Ceramic	
	4020000250	Cylinder	UP125 X 472M
	4020000250	Cylinder	UP125 X 472M
	4010000520	Ceramic	DD108 B 472K 50V
	5030000380	LCD	HLC9599-01-3210
	5040001290	LED	SLP153B
	5040001300	LED	SLP253B
	5080000170	LED	HRS7219A-Y2-30
	5080000170	LED	HRS7219A-Y2-30
	5080000170	LED	HRS7219A-Y2-30
	505000170	LLD	11107219A-12-00
	5510000300	Meter	KL-218U-43 (M610)
	2230000120	Switch	SDDSA3159A [POWER]
	2230000550	Switch	SPPH23079A [ATT]
	2230000550	Switch	SPPH23079A [PRE]
	2230000550	Switch	SPPH23079A [NB]
	2230000550	Switch	SPPH23079A [AGC]
	2230000550	Switch	SPPH23079A [LOCK]
		Switch	SPPH23079A [LOOK] SPPH23079A [TRANSMIT]
	2230000550		
	2260000070	Switch	SKHHAK013A [M-CH UP]
	2260000070	Switch	SKHHAK013A
			[M-CH DOWN]
	2260000070	Switch	SKHHAK013A [VFO]
	2260000070	Switch	SKHHAK013A [MEMO]
	2260000070	Switch	SKHHAK013A [RIT]
	2260000070	Switch	SKHHAK013A [MW]
	2260000070	Switch	SKHHAK013A [FUNC]
	2260000070	Switch	SKHHAK013A [SPLIT]
	2260000070	Switch	SKHHAK013A [TUNER]
	2260000060	Switch	SKHHAJ025A [BAND]
	2260000060	Switch	SKHHAJ025A [MHz]
	2260000060	Switch	SKHHAJ025A [kHz]
	2260000070	Switch	SKHHAK013A [AM/FM]
	2260000070	Switch	SKHHAK013A [CW/N]
	2260000070	Switch	SKHHAK013A [SSB]
	7600000100	Switch	EC24B50B0013A
	700000100	ownen	[MAIN DIAL]
	0910019544	P.C. Board	B 1786D (VR)
	0910019524	P.C. Board	B 1787D (SW)
	0910019550	P.C. Board	B 1868 (SPEC)
	0910006330	Flexible Cable	B 792
	0910019931	P.C. Board	B 1932A (LED)
	6910000630	Ferrite Bead	FSOH070RN
	6910000630	Ferrite Bead	FSOH070RN
	6910000630	Ferrite Bead	FSOH070RN

[MAIN UNIT]

REF. NO.	ORDER NO.		DESCRIPTION	REF. NO.	ORDER NO.		DESCRIPTION	
C1	1790000050	IC	ND487C1-3R	Q66	1590000340	Transistor	RN1202	
C2	1110001310	IC	μPC577HA	Q67	1590000360	Transistor	RN2202	
C4	1110000330	IC	M5218L					
25	1110001320	IC	μPC1037HA		Lostes Williams	haran		
C6	1110001320	IC	μΡC1037HA	D1	1710000050	Diode	1SS53	
C8	1130003900	ic	GD4066B	D2	1710000050	Diode	18853	
C9			μΡC1241Η	D3	1710000050	Diode	18853	
	1110000890			D3		Diode	18853	
210	1110000330	IC	M5218L		1710000050			
C11	1110000330	IC	M5218L	D5	1710000050	Diode	1SS53	
C13	1130003880	IC I	GD4011B	D6	1710000050	Diode	1SS53	
C14	1180000470	IC	NJM7808A	D7	1710000050	Diode	1SS53	
C15	1110000290	IC	BA618	D8	1710000050	Diode	15553	
C16	1120000970	IC	M54562P	D9	1710000050	Diode	1SS53	
	and the second second		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D10	1710000160	Diode	1SS133	
	6., 1.1. (azz)		en la seconda de la companya de la c	D11	1710000160	Diode	155133	
1	1530000810	Transistor	2SC2053	D12	1710000330	Diode	1K60	
2	1580000100	FET	3SK74 K	D12	1710000330	Diode	1K60	
	1					Diode	1SS133	
3	1580000100	FET	3SK74 K	D14	1710000160	A DATE OF		
4	1530000810	Transistor	2SC2053	D15	1710000050	Diode	1SS53	
5	1520000230	Transistor	2SB909M Q	D16	1710000050	Diode	1SS53	
6	1590000340	Transistor	RN1202	D17	1710000160	Diode	1SS133	
7	1560000100	FET	2SK241-Y	D18	1710000050	Diode	1SS53	
3	1560000130	FET	2SK125	D19	1710000050	Diode	1SS53	
à	1560000130	FET	2SK125	D20	1710000050	Diode	1SS53	
10	1590000360	Transistor	RN2202	D21	1710000050	Diode	1SS53	
11	1530000110	Transistor	2SC2458-GR	D22	1710000160	Diode	1SS133	
					A CONTRACT OF		18853	
12	1590000340	Transistor	RN1202	D23	1710000050	Diode		
13	1560000130	FET	2SK125	D24	1710000050	Diode	1SS53	
14	1560000130	FET	2SK125	D25	1710000050	Diode	1SS53	
15	1580000110	FET	3SK74 M	D26	1710000050	Diode	1SS53	
16	1560000080	FET	2SK192A-Y	D27	1710000160	Diode	1SS133	
17	1510000080	Transistor	2SA1048-GR	D28	1710000050	Diode	15553	
18	1530000110	Transistor	2SC2458-GR	D29	1710000050	Diode	15553	
19	1530000110	Transistor	0000450 00	D30	1710000050	Diode	1SS53	
20	1590000360	Transistor	2SC2458-GH RN2202	D31	1710000050	Diode	1SS53	
	and the second				10000000000	2.82	18853	
21	1580000110	FET	3SK74 M	D32	1710000050	Diode		
22	1560000100	FET	2SK241-Y	D33	1710000050	Diode	1SS53	
23	1590000340	Transistor	RN1202	D34	1710000160	Diode	1SS133	
24	1590000360	Transistor	RN2202	D35	1710000050	Diode	1SS53	
25	1590000360	Transistor	RN2202	D36	1710000050	Diode	1SS53	
26	1530000110	Transistor	2SC2458-GR	D37	1710000050	Diode	1SS53	
27	1580000110	FET	3SK74 M	D38	1710000050	Diode	1SS53	
28	1560000100	FET	2SK241-Y	D39	1710000050	Diode	1SS53	
29	1530000110	Transistor	2SC2458-GR	D40	1710000050	Diode	1SS53	
30	a second particular and a		2SC2458-GR	D40	1710000050	Diode	18853	
	1530000110	Transistor	And the second state of the second se Second second sec			Sa Ngaza		
31 :	1530000110	Transistor	2SC2458-GR	D42	1710000050	Diode	1SS53	
32	1590000340	Transistor	RN1202	D43	1710000050	Diode	1SS53	
33	1590000350	Transistor	RN1204	D44	1710000050	Diode	1SS53	
34	1590000340	Transistor	RN1202	D45	1710000050	Diode	18853	
35	1530000110	Transistor	2SC2458-GR	D46	1710000050	Diode	1SS53	
36	1530000110	Transistor	2SC2458-GR	D47	1710000050	Diode	18853	
37	1530000110	Transistor	2SC2458-GR	D48	1710000050	Diode	1SS53	
38	1510000080	Transistor	2SA1048-GR	D49	1710000050	Diode	1SS53	
9 89		2	RN1204	D50	1710000050	Diode	1SS53	
	1590000350	Transistor			- 10.121 (2020-0.14) (2020-249-19)			
10	1530000110	Transistor	2SC2458-GR	D51	1710000050	Diode	18853	
1	1590000360	Transistor	RN2202	D52	1710000050	Diode	1SS53	
2	1530000110	Transistor	2SC2458-GR	D55	1710000160	Diode	1SS133	
4	1530000110	Transistor	2SC2458-GR	D56	1710000330	Diode	1K60	
15	1530000110	Transistor	2SC2458-GR	D57	1710000160	Diode	1SS133	
6	1540000070	Transistor	2SD468C	D58	1710000160	Diode	1SS133	
7	1540000070	Transistor	2SD468C	D59	1710000330	Diode	1K60	
	1540000150	Transistor	2SD1225M R	D60	1710000330	Diode	1K60	
8			and the second		A ANG SA ANG AND			
9	1530000110	Transistor	2SC2458-GR	D61	1710000160	Diode	1SS133	
0	1530000110	Transistor	2SC2458-GR	D62	1710000330	Diode	1K60	
1	1590000340	Transistor	RN1202	D63	1710000050	Diode	1SS53	
2	1540000150	Transistor	2SD1225M R	D64	1710000160	Diode	1SS133	
3	1510000080	Transistor	2SA1048-GR	D65	1710000160	Diode	1SS133	
4	1590000350	Transistor	RN1204	D66	1710000160	Diode	1SS133	
5	1590000350	Transistor	RN1204	D67	1710000050	Diode	1SS53	
	1				1710000050		18853	
6	1530000110	Transistor	2SC2458-GR	D68		Diode		
51	1540000150	Transistor	2SD1225M R	D69	1710000050	Diode	1SS53	
2	1520000230	Transistor	2SB909M Q	D70	1710000050	Diode	1SS53	
63	1540000150	Transistor	2SD1225M R	D71	1710000050	Diode	1SS53	
4	1590000340	Transistor	RN1202	D72	1710000160	Diode	188133	
	1590000340	Transistor	RN1202	D73	1710000160	Diode	1SS133	

[MAIN UNIT]

REF. NO.	ORDER NO.		DESCRIPTION	RÉF. NO.	ORDER NO.		DESCRIPTION
D75	1710000160	Diode	1SS133	L34	6150002430	Coil	LS-254
D76	1710000160	Diode	1SS133	L35	6150002430	Coil	LS-254
D77	1710000160	Diode	1SS133	L36	6150000990	Coil	LS-114
D78	1710000160	Diode					LS-163
			1SS133	L37	6150001470	Coil	
D79	1710000160	Diode	188133	L38	6180000940	Coil	LAL 03NA
D80	1730000070	Zener	RD3.9E B2	L39	6180000930	Coil	LAL 03NA
D81	1710000160	Diode	1SS133	L40	6180000900	Coil	LAL 03NA
D82	1710000160	Diode	1SS133	L41	6180000900	Coil	LAL 03NA
D83	1710000160	Diode	1SS133	L42	6180000850	Coil	LAL 03NA
D84	1710000160	Diode	1SS133	L43	6180000840	Coil	LAL 03NA
D85	1710000160	Diode	1SS133	L44	6180000900	Coil	LAL 03NA
	 A statistic et al second a second a			1 1			LAL 03NA
D86	1710000160	Diode	1SS133	L45	6180000870	Coil	
D87	1710000160	Diode	155133	L46	6180000850	Coil	LAL 03NA
D88	1710000160	Diode	1SS133	L47	6180000900	Coil	LAL 03NA
D89	1710000160	Diode	1SS133	L48	6180000820	Coil	LAL 03NA
D90	1710000160	Diode	188133	L49	6180000810	Coil	LAL 03NA
D91	1710000160	Diode	1SS133	L50	6180000820	Coil	LAL 03NA
D92	1710000160	Diode	155133	L51	6180000830	Coil	LAL 03NA
	and sound in the second	4					
D93	1710000160	Diode	188133	L52	6180000900	Coil	LAL 03NA
D94	1710000160	Diode	188133	L53	6180000800	Coil	LAL 03NA
D95	1710000160	Diode	1SS133	L54	6180000780	Coil	LAL 03NA
D96	1710000160	Diode	155133	L55	6180000790	Coil	LAL 03NA
D97	1710000030	Diode	1\$1555	L56	6180000790	Coil	LAL 03NA
D98	1710000160	Diode	155133	L57	6180000900	Coil	LAL 03NA
D98 D99							LAL OSNA
	1710000160	Diode	1SS133	L58	6180000780	Coil	
D101	1710000050	Diode	1SS53	L59	6180000770	Coil	LAL 03NA
D102	1710000050	Diode	15553	L60	6180000760	Coil	LAL 03NA
D103	1710000050	Diode	15553	L61	6180000760	Coil	LAL 03NA
D104	1710000050	Diode	18853	L62	6180000900	Coil	LAL 03NA
D105	1710000050	Diode	1SS53	L63	6180000760	Coil	LAL 03NA
D106	1710000160	Diode	155133	L64	6180000750	Coil	LAL 03NA
		1					
D107	1710000160	Diode	188133	L65	6180000750	Coil	LAL 03NA
				L66	6180000740	Coil	LAL 03NA
				L67	6180000900	Coil	LAL 03NA
FI1	2010000500	Filter	70M15B (FL-64)	L68	6180000730	Coil	LAL 03NA
FI2	2010000270	Filter	9M15A (FL-23)	L69	6180000730	Coil	LAL 03NA
FI3	2010000320	Filter	9M22D2 (FL-30)	L70	6180000730	Coil	LAL 03NA
FI4	2010000950	Filter				1	LAL 03NA
F14	2010000950	Filler	9M6A1 (FL-116)	L71	6180000730	Coil	
				L72	6180000900	Coil	LAL 03NA
	1 ²	1		L73	6180000700	Coil	LAL 03NA
X1	6050001800	Crystal	CR-49	L74	6180000700	Coil	LAL 03NA
	1.1.1			L75	6180000710	Coil	LAL 03NA
	and the second	and the second sec		L76	6180001290	Coil	LAL 02NA
L1	6140000080	Coil	LR-20	L77	6150001590	Coil	LS-175
L2	6180002520	Coil	LAL 02NA R27K	L78	6150001470	Coil	LS-163
				L79		Coil	
L3	6180001290	Coil	LAL 02NA R33K		6150001590	1	LS-175
L4	6180000860	Coil	LAL 03NA 5R6K	L80	6170000140	Coil	LW-15
L5	6180000960	Coil	LAL 03NA 102K	L81	6180000690	Coil	LAL 03NA
L6	6140002050	Coil	LR-224	L82	6150001220	Coil	LS-134
L7	6150001770	Coil	LS-198	L83	6150001210	Coil	LS-133A
L8	6110001620	Coil	LA-245	L85	6180000900	Coil	LAL 03NA
L0 L9			LAL 03NA 101K	L86	6180000900	Coil	LAL 03NA
	6180000900	Coil			1		
L10	6110001640	Coil	LA-247	L87	6180000900	Coil	LAL 03NA
L11	6110001570	Coil	LA-237	L88	6180000880	Coil	LAL 03NA
L12	6180000710	Coil	LAL 03NA R33M	L89	6180000950	Coil	LAL 03NA
L13	6180000690	Coil	LAL 03NA R22M	L90	6180000950	Coil	LAL 03NA
L14	6150000990	Coil	LS-114	L91	6180000900	Coil	LAL 03NA
L16	6150002430	Coil	LS-254	L92	6180000900	Coil	LAL 03NA
			LS-254				
L17	6150002430	Coil		L93	6910000670	Coil	BT01RN1-A
L18	6140002060	Coil	LR-225	L94	6180000900	Coil	LAL 03NA
L19	6140002060	Coil	LR-225	L95	6180000900	Coil	LAL 03NA
L20	6180000900	Coil	LAL 03NA 101K	L96	6910000670	Coil	BT01RN1-A
L21	6150001640	Coil	LS-180B	L97	6180000900	Coil	LAL 03NA
L22	6150000700	Coil	LS-90A	L98	6910000670	Coil	BT01RN1-A
						Coil	LAL 03NA
L23	6150000700	Coil	LS-90A	L99	6180000900		
L24	6180000950	Coil	LAL 03NA 150K	L.100	6180000900	Coil	LAL 03NA
L25	6150001590	Coil	LS-175	L101	6180000900	Coil	LAL 03NA
L26	6150001590	Coil	LS-175	L102	6910000670	Coil	BT01RN1-A
L27	6140000640	Coil	LR-86	L103	6180000900	Coil	LAL 03NA
L28	6140001540	Coil	LR-169	L100	6180002460	Coil	LAL 02KR
		1					
L29	6110001640	Coil	LA-247	L111	6150001770	Coil	LS-198
L30	6110001570	Coil	LA-237	L112	6150001770	Coil	LS-198
L31	6140002050	Coil	LR-224	L114	6170000230	Coil	LW-25
	000000000	Coil	LAL 03NA 100K	L115	6180000900	Coil	LAL 03NA
L32	6180000880		LAL OUTA TOUR				

[MAIN UNIT]

REF. NO.	ORDER NO.		DESCRIPTION		REF. NO.	ORDER NO.		DESCRIPTION
L117	6180000760	Coil	LAL 03NA R82M		R74	7010003360	Resistor	ELR20J 470 Ω
	S				R75	7010003530	Resistor	ELR20J 10 kΩ
				1.1	R76	7010004030	Resistor	R20J 47 Ω
R1	7010004150	Resistor	R20J 470 Ω		R77	7010004090	Resistor	5001 450 O
					R78	7010001530		
32	7010003960	Resistor	R20J 12 Ω	1996) - E				0001 00 0
33	7010003360	Resistor	ELR20J 470 Ω	Admin 1	R79	7010003990	Resistor	
74	7010000950	Resistor	R25J 22 Ω	1. K	R80	7010004090	Resistor	
35	7010004310	Resistor	R20J 8.2 kΩ		R81	7010000990	Resistor	R25J 47 Ω
36	7010003920	Resistor	R20J 5.6 Ω	0 ¥	R82	7010003440	Resistor	ELR20J 2.2 kΩ
87	7010004170	Resistor	R20J 680 Ω		R83	7010004230	Resistor	R20J 2.2 kΩ
88	7010003250	Resistor	ELR20J 56 Ω	200 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	R84	7010004030	Resistor	500 L 17 0
				÷	R85	7310000750	Trimmer	RH0651C14J2WA (10)
9	7010003660	Resistor	ELR20J 100 kΩ		1			
10	7010003660	Resistor	ELR20J 100 kΩ	10.30	R86	7010004070	Resistor	R20J 100 Ω
11	7010003530	Resistor	ELR20J 10 kΩ	84.4	R87	7010004950	Resistor	R20J 1.5 MΩ
12	7010003240	Resistor	ELR20J 47 Ω	and the second	R88	7010003360	Resistor	ELR20J 470 Ω
13	7010003160	Resistor	ELR20J 10 Ω	and the second	R89	7510000100	Thermistor	ERT-D2FGL601S
14	7010004170	Resistor	R20J 680 Ω		R90	7010003530	Resistor	
15	7010003490	Resistor	ELR20J 5.6 kΩ		R91	7010004030	Resistor	R20J 47 Ω
16	7010003260	Resistor	ELR20J 68 Ω	the second second	R92	7010003340	Resistor	
17	7010004070	Resistor	R20J 100 Ω	the second	R93	7010001110	Resistor	R25J 470 Ω
18	7010004300	Resistor	R20J 6.8 kΩ	1 - L	R94	7010000330	Resistor	ELR25J 470 Ω
19	7010000790	Resistor	R25J 1Ω	1.1	R95	7010004070	Resistor	R20J 100 Ω
20	7010004230	Resistor	R20J 2.2 kΩ		R96	7010004070		
	1					1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M		D001 400 0
21	7010003510	Resistor	ELR20J 6.8 kΩ		R97	7010004070	Resistor	
22	7010004090	Resistor	R20J 150 Ω	5.4. C	R98	7010004070	Resistor	R20J 100 Ω
23	7010004270	Resistor	R20J 4.7 kΩ	308 - ¹	R99	7010004070	Resistor	R20J 100 Ω
24	7010003330	Resistor	ELR20J 270 Ω	10	R100	7010004070	Resistor	R20J 100 Ω
25	7010003330	Resistor	ELR20J 270 Ω		R101	7410000180	Resistor Array	RMX- 8 103K
				Shi -				
26	7010003190	Resistor	ELR20J 18 Ω		R102	7010003350	Resistor	ELR20J 390 Ω
27	7010003460	Resistor	ELR20J 3.3 kΩ	28 - S	R103	7010004040	Resistor	R20J 56 Ω
28	7010004230	Resistor	R20J 2.2 kΩ		R104	7010003620	Resistor	ELR20J 47 kΩ
29	7010004230	Resistor	R20J 2.2 kΩ	18. L	R105	7010000870	Resistor	R25J 4.7 Ω
30	7010001190	Resistor	R25J 2.2 kΩ		R106	7010004270	Resistor	R20J 4.7 kΩ
								ELR20J 470 kΩ
31	7010003320	Resistor	ELR20J 220 Ω	22.1	R107	7010003740	Resistor	
32	7010000990	Resistor	R25J 47 Ω		R108	7010004370	Resistor	R20J 22 kΩ
133	7010003740	Resistor	ELR20J 470 kΩ	19.1	R109	7010004420	Resistor	R20J 56 kΩ
34	7010003580	Resistor	ELR20J 22 kΩ		R110	7310000750	Trimmer	RH0651C14J2WA (10
35	7510000110	Thermistor	ERT-D2FGL251S	<u></u>	B111	7010004320	Resistor	R20J 10 kΩ
36	7010004130	Resistor	R20J 330 Ω		R112	7010001030	Resistor	R25J 100 Ω
					a ·			ELR20J 3.3 MΩ
37	7010003280	Resistor	ELR20J 100 Ω	<u>}</u>	R113	7010003820	Resistor	
38	7010004450	Resistor	R20J 100 kΩ	A D	R114	7010004570	Resistor	R20J 1 MΩ
39	7010003280	Resistor	ELR20J 100 Ω	S 4	R115	7010004370	Resistor	R20J 22 kΩ
40	7010004070	Resistor	R20J 100 Ω	2 <u>\$</u>	R116	7310000750	Trimmer	RH0651C14J2WA (10
41	7010003950	Resistor	R20J 10 Ω	e (R117	7010003580	Resistor	ELR20J 22 kΩ
42	7010003480	Resistor	ELR20J 4.7 kΩ		R118	7010005170	Resistor	R20J 4.7 MΩ
43	7010003660	Resistor	ELR20J 100 kΩ		R119	7010003530	Resistor	ELR20J 10 kΩ
45	7010003620	Resistor	ELR20J 47 kΩ	- A.	R120	7010004070	Resistor	R20J 100 Ω
46	7010003660	Resistor	ELR20J 100 kΩ	6	R121	7010004320	Resistor	R20J 10 kΩ
47	7010003530	Resistor	ELR20J 10 kΩ		R122	7010004250	Resistor	R20J 3.3 kΩ
				1				
48	7010003510	Resistor	ELR20J 6.8 kΩ		R123	7010003360	Resistor	ELR20J 470 Ω
49	7010004130	Resistor	R20J 330 Ω	. B. 🖉 📕	R124	7010003480	Resistor	ELR20J 4.7 kΩ
50	7010003580	Resistor	ELR20J 22 kΩ	1990 - A	R125	7010003550	Resistor	ELR20J 15 kΩ
51	7010003400	Resistor	ELR20J 1 kΩ	181	R126	7010003510	Resistor	ELR20J 6.8 kΩ
52	7010004320	Resistor	R20J 10 kΩ	të t	R127	7010003640	Resistor	ELR20J 68 kΩ
					- 1 1 12		Resistor	ELR20J 100 kΩ
53	7010004320	Resistor	R20J 10 kΩ		R128	7010003660		
54	7010004230	Resistor	R20J 2.2 kΩ		R129	7010003400	Resistor	ELR20J 1 kΩ
55	7010004230	Resistor	R20J 2.2 kΩ	(R130	7010004150	Resistor	R20J 470 Ω
56	7010003460	Resistor	ELR20J 3.3 kΩ		R131	7010003700	Resistor	ELR20J 220 kΩ
57	7010004230	Resistor	R20J 2.2 kΩ		R132	7010004340	Resistor	R20J 15 kΩ
						7010004300	Resistor	R20J 6.8 kΩ
58	7010004070	Resistor	R20J 100 Ω		R133			
59	7010004230	Resistor	R20J 2.2 kΩ		R134	7010004250	Resistor	R20J 3.3 kΩ
60	7010003440	Resistor	ELR20J 2.2 kΩ	- 1921 - E	R135	7010003240	Resistor	ELR20J 47 Ω
61	7010004230	Resistor	R20J 2.2 kΩ	÷	R136	7010004030	Resistor	R20J 47 Ω
62	7010003440	Resistor	ELR20J 2.2 kΩ		R137	7010004070	Resistor	R20J 100 Ω
	1 P 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					1	×	
63	7010001030	Resistor	R25J 100 Ω		R138	7310000740	Trimmer	RH0651CS3J2KA (47
64	7010004230	Resistor	R20J 2.2 kΩ		R139	7010003530	10°	ELR20J 10 kΩ
65	7010001110	Resistor	R25J 470 Ω	49.11 B	R140	7510000120	Thermistor	ERT-D2FGL332S
66	7010004110	Resistor	R20J 220 Ω		R141	7010004070		R20J 100 Ω
67	7010003990	Resistor	R20J 22 Ω		R142	7010003300	Resistor	ELR20J 150 Ω
68	7010003320	Resistor	ELR20J 220 Ω	- 38 S.C	R143	7010004150		R20J 470 Ω
69	7010000870	Resistor	R25J 4.7 Ω		R144	7010004410	Resistor	R20J 47 kΩ
70	7010003440	Resistor	ELR20J 2.2 kΩ	1	R145	7010001030		R25J 100 Ω
	7010003400	Resistor	ELR20J 1 kΩ		R146	7010004230	Resistor	R20J 2.2 kΩ
71								
72	7010003400	Resistor	ELR20J 1 kΩ		R147	7010003440	Resistor	ELR20J 2.2 kΩ
73	7010003360	Resistor	ELR20J 470 Ω		R148	7010003530	Resistor	ELR20J 10 kΩ

DESCRIPTION R20J 100 Ω

ELR20J 10 kΩ

ELR25J 4.7 Ω

ELR25J 1 kΩ ELR25J 4.7 Ω

ELR25J 1 kQ

ELR25J 4.7 Ω

RMX- 6 472K R20J 220 Ω

ELR20J 4.7 kΩ

ELR20J 4.7 kΩ

ELR20J 5.6 $k\Omega$

ELR20J 12 kΩ

ELR20J 2.2 kΩ

RK09K1110AEFA

R20J 10 kΩ

R25J 100 Ω

R20J 10 k Ω

R20J 6.8 kΩ R20J 1 MΩ

R25J 100 Ω

R20J 47 Ω

R25J 10 kΩ

R20J 4.7 kΩ

R20J 4.7 kΩ

ELR20J 1 kΩ ELR20J 470 Ω

ELR20J 3.3 kΩ R20J 2.2 kΩ

ELR20J 22 kΩ

ELR20J 10 kΩ

ELR20J 470 Ω

ELR20J 4.7 Ω

R20J 6.8 kΩ R20J 10 kΩ

ELR20J 680 Ω

R20J 100 kΩ R20J 10 kΩ

ELR20J 1Ω

R20J 1.5 kΩ ELR20J 470 Ω

R20J 1.5 kΩ R20J 390 Ω

ELR20J 56 Ω ELR20J 4.7 kΩ

ELR20J 5.6 kΩ

RH0651C15J1UA (104) ELR20J 10 kΩ

RH0651C14J2WA (103)

DD108 B 472K 50V

DD107 SL 331J 50V

DD104 SL 470J 50V

DD107 SL 221J 50V DD104 SL 150J 50V

DD106 SL 151J 50V

UZE 08X 104M

R20J 1 kΩ

R20J 1 kΩ

R20J 4.7 kΩ

R25J 1 kΩ ELR20J 4.7 kΩ

ELR20J 4.7 kΩ R25J 47 kΩ

R20J 1 kΩ

ELR20J 2.2 kΩ

ELR20J 100 kΩ ELR20J 100 kΩ

R20J 1 kΩ

RH1051D13J0JA (102)

RH0651C14J2WA (103)

R20J 8.2 kΩ ELR20J 680 Ω

R20J 1 kΩ

[MAIN UNIT]

REF. NO.	ORDER NO.		DESCRIPTION		REF. NO.	ORDER NO.	C C	DE
R149	7010003830	Resistor	R20J 1Ω		R223	7010004070	Resistor	
R150	7010003300	Resistor	ELR20J 150 Ω		R224	7010003530	Resistor	
R151	7010003400	Resistor	ELR20J 1 kΩ		R225	7010000090	Resistor	
R152	7010003530	Resistor	ELR20J 10 kΩ		R226	7010000370	Resistor	
R153	7010004320	Resistor	R20J 10 kΩ		R227	701000090	Resistor	
R154	7010003530	Resistor	ELR20J 10 kΩ		R228	7010000370	Resistor	
R155	7010004320	Resistor	R20J 10 kΩ		R229	7010000090	Resistor Resistor	
R156 R157	7010004190	Resistor Resistor	R20J 1 kΩ ELR20J 4.7 kΩ		R230 R231	7010004190 7410000140	Resistor Array	
R158	7010003400	Resistor	R25J 1 kΩ		R232	7010004110	Resistor	
R159	7010003400	Resistor	ELR20J 1 k Ω		R233	7010003480	Resistor	
R160	7010004390	Resistor	R20J 33 kΩ		R234	7010003480	Resistor	
R161	7010003990	Resistor	R20J 22 Ω		R235	7010003490	Resistor	
R162	7010003400	Resistor	ELR20J 1 kΩ		R236	7010004310	Resistor	
R164	7010003660	Resistor	ELR20J 100 kΩ		R237	7010003380	Resistor	
R165	7010004070	Resistor	R20J 100 Ω		R238	7310000860	Trimmer	
R166	7010004450	Resistor	R20J 100 kΩ		R239	7010003540	Resistor	
R167	7010001400	Resistor	R25J 100 kΩ		R240	7010003440	Resistor	
R168 R169	7010003660	Resistor	ELR20J 100 kΩ		R241	7310000750	Trimmer	
R170	7010003440	Resistor Resistor	ELR20J 2.2 kΩ R20J 2.2 kΩ		R242 R243	7010004320	Resistor Resistor	
R171	7010003440	Resistor	ELR20J 2.2 kΩ		R244	7210001540	Variable Resistor	
R172	7010004230	Resistor	R20J 2.2 k Ω		R245	7010004320	Resistor	
R173	7010003480	Resistor	ELR20J 4.7 kΩ		R246	7010004190	Resistor	
R174	7010004260	Resistor	R20J 3.9 kΩ		R247	7010004300	Resistor	
R175	7010003420	Resistor	ELR20J 1.5 kΩ		R248	7010004570	Resistor	
R176	7010003660	Resistor	ELR20J 100 kΩ		R249	7010001030	Resistor	
R177	7310000750	Trimmer	RH0651C14J2WA (103)		R250	7010004030	Resistor	
R178	7010003660	Resistor	ELR20J 100 kΩ		R251	7010003440	Resistor	
R179	7310000750	Trimmer	RH0651C14J2WA (103)		R252	7010003660	Resistor	
R180 R181	7010004490	Resistor	R20J 220 kΩ		R253 R254	7010003660	Resistor Resistor	
R182	7010003440 7010003480	Resistor Resistor	ELR20J 2.2 kΩ ELR20J 4.7 kΩ		R255	7010001280	Resistor	
R183	7010003480	Resistor	ELR20J 4.7 KΩ ELR20J 10 kΩ	1	R256	7010004190	Resistor	
R184	7010004230	Resistor	R20J 2.2 kΩ		R257	7010003480	Resistor	
R185	7010003720	Resistor	ELR20J 330 kΩ		R258	7010001360	Resistor	
R186	7310000790	Trimmer	RH0651C15J1UA (104)		R259	7010004270	Resistor	
R187	7010004410	Resistor	R20J 47 kΩ	- 1	R260	7010003400	Resistor	
R188	7010003620	Resistor	ELR20J 47 kΩ		R261	7010003360	Resistor	
R189	7010001110	Resistor	R25J 470 Ω	. 1	R262	7010003460	Resistor	
R190	7010004190	Resistor	R20J 1 kΩ		R263	7010004230	Resistor	
R191	7010004410	Resistor	R20J 47 kΩ		R264	7010003580	Resistor	
R192	7010003620	Resistor	ELR20J 47 kΩ		R265	7010003530	Resistor	
R193 R194	7010004390 7310000750	Resistor Trimmer	R20J 33 kΩ RH0651C14J2WA (103)		R266 R267	7010001150 7010003480	Resistor Resistor	
R194	7010003600	Resistor	ELR20J 33 kΩ		R268	7010003480	Resistor	
R196	7010003780	Resistor	ELR20J 1 MΩ		R269	7010003120	Resistor	
R197	7010004150	Resistor	R20J 470 Ω		R270	7010004300	Resistor	
R198	7010004570	Resistor	R20J 1 MΩ		R271	7010004320	Resistor	
R199	7010005220	Resistor	ELR20J 10 MΩ		R272	7010003380	Resistor	
R200	7010004570	Resistor	R20J 1 MΩ		R273	7010004450	Resistor	
R201	7010004270	Resistor	R20J 4.7 kΩ		R274	7010004320	Resistor	
R202	7010004150	Resistor	R20J 470 Ω		R275	7010003040	Resistor	
R203	7010004430	Resistor	R20J 68 kΩ		R281	7010004210	Resistor	
R204	7010003720	Resistor	ELR20J 330 kΩ		R282	7010003360	Resistor	
R205 R206	7010003360	Resistor	ELR20J 470 Ω		R283 R284	7010004210	Resistor Resistor	
R206	7010003650 7010003650	Resistor Resistor	ELR20J 82 kΩ		R285	7010004140 7010003250	Resistor	
R206	7010003850	Resistor	ELR20J 4.7 k Ω #01		R287	7010003250	Resistor	
R206	7010003480	Resistor	ELR20J 4.7 k Ω #02		R288	7010004190	Resistor	
R207	7010003510	Resistor	ELR20J 6.8 kΩ		R289	7010003490	Resistor	
R208	7310000740	Trimmer	RH0651CS3J2KA (472)		R290	7010004190	Resistor	
R209	7010003530	Resistor	ELR20J 10 kΩ		R291	7310000790	Trimmer	Ì
R210	7310000790	Trimmer	RH0651C15J1UA (104)		R292	7010003530	Resistor	
R211	7010004530	Resistor	R20J 470 kΩ		R293	7310000750	Trimmer	
R212	7010003480	Resistor	ELR20J 4.7 kΩ		R294	7010004270	Resistor	
R213	7010003810	Resistor	ELR20J 2.2 MΩ					
R214	7010003360	Resistor	ELR20J 470 Ω			4010000500	Coromio	
R215 R216	7010001050 7010003530	Resistor Resistor	R25J 150 Ω ELR20J 10 kΩ		C1 C2	4010000520 4040000260	Ceramic Barrier Layer	
R216 R217	7010003530	Resistor	R20J 100 kΩ		C2 C3	404000260	Ceramic	1
R218	7010004450	Resistor	R20J 1 kΩ		C4	4010000260	Ceramic	ł
R220	7010003740	Resistor	ELR20J 470 kΩ		C5	4010000380	Ceramic	1
		Resistor	ELR20J 470 kΩ		C6	4010000150	Ceramic	ļ
R221	7010003740	nesisioi	LLN200 4/0 KS2		100	-1010000100	001000	

[MAIN UNIT]

[MAIN UNIT]

DESCRIPTION

DD104 SL 060D 50V DD108 B 472K 50V 50 MS7 R47 μF

DD108 B 472K 50V 50 MS7 3R3 µF

DD108 B 472K 50V 25 SS 47 µF

DD104 B 102K 50V 16 MS7 10 µF

DD108 B 472K 50V 25 SS 47 µF

DD105 SL 101J 50V DD106 SL 151J 50V DD108 B 472K 50V DD108 B 472K 50V UZE 08X 104M

DD108 B 472K 50V DD108 B 472K 50V DD107 SL 221J 50V

DD108 B 472K 50V DD108 B 472K 50V DD106 SL 151J 50V DD104 SL 220J 50V DD108 B 472K 50V DD104 SL 220J 50V DD108 B 472K 50V

50 MS7 R22 µF UAT 08X 473M

UAT 04X 122K

UAT 05X 682K RAU 08SA 821K

UAT 06X 153K

UAT 04X 152K

UAT 04X 102K UP050 B 101K UAT 04X 102K

UAT 08X 473M

UZE 08X 104M

UZE 08X 104M

UAT 04X 222K

UAT 04X 122K DD106 SL 181J 50V UAT 04X 122K

UAT 04X 222K

UAT 06X 153K

UAT 04X 122K

UAT 08X 473M

UAT 05X 562K

RAU 08SA 821K

DD108 B 472K 50V DD107 SL 331J 50V DD104 SL 510J 50V DD107 SL 331J 50V

UAT 08X 473M

DD108 B 472K 50V DD109 SL 511J 50V DD105 SL 101J 50V DD109 SL 471J 50V UAT 04X 122K

DD108 B 472K 50V UAT 04X 152K

DD107 SL 331J 50V DD108 B 472K 50V

UZE 08X 104M

F2D 50V 223K 16 MS7 10 µF

50 MS7 1 µF

IVI <i>F</i> -111 1	UNIT]			LINIAIN	UNIT]		
REF. NO,	ORDER NO.		DESCRIPTION	REF. NO.	ORDER NO.	D)E
C8	4040000110	Barrier Layer	UAT 04X 222K	C93	401000080	Ceramic	
C9	4040000260	Barrier Layer	UZE 08X 104M	C94	4010000520	Ceramic	
C10	4040000130	Barrier Layer	UAT 05X 332K	C95	4510001150	Electrolytic	
C11	4010000050	Ceramic	DD104 SL 030C 50V	C96	4010000520	Ceramic	
C12	4020000730	Cylinder	UP050 SL 150J	C97	4510001180	Electrolytic	
C13	4010000340	Ceramic	DD105 SL 121J 50V	C99	4010000520	Ceramic	
C14	4010000520	Ceramic	DD108 B 472K 50V	C100	4510002640	Electrolytic	
C15	4010000520	Ceramic	DD108 B 472K 50V	C101	4040000260	Barrier Layer	
C16	4010000020	Ceramic	DD104 SL 010C 50V	C102	4010000500	Ceramic	
C17	4010000150	Ceramic	DD104 SL 150J 50V	C109	4510001100	Electrolytic	
C18	401000080	Ceramic	DD104 SL 060D 50V	C110	4310000060	Mylar	
C19	4010000010	Ceramic	DD104 SL 0R5C 50V	C112	4510001100	Electrolytic	
C20	4010000500	Ceramic	DD104 B 102K 50V	C113	4510001160	Electrolytic	
C21	4010000330	Ceramic	DD105 SL 101J 50V	C114	4010000520	Ceramic	
C23	4010000220	Ceramic	DD104 SL 330J 50V	C115	4510002640	Electrolytic	
C25	4010000500	Ceramic	DD104 B 102K 50V	C116	4010000330	Ceramic	
C26	4010000100	Ceramic	DD104 SL 080D 50V	C117	4010000350	Ceramic	
C27	4040000150	Barrier Layer	UAT 05X 472K	C118	4010000520	Ceramic	
C28	4010000520	Ceramic	DD108 B 472K 50V	C119	4010000520	Ceramic	
C29	4010000500	Ceramic	DD104 B 102K 50V	C120	4040000260	Barrier Layer	
C30	4010000520	Ceramic	DD108 B 472K 50V	C121	4010000520	Ceramic	
C31	4010003320	Ceramic	DD104 UJ 080D 50V	C122	4010000520	Ceramic	
C32	4010003320	Ceramic	DD104 UJ 080D 50V	C123	4010000380	Ceramic	
C33	4010000300	Ceramic	DD104 SL 680J 50V	C124	4510001140	Electrolytic	
C35	4010000520	Ceramic	DD108 B 472K 50V	C125	4040000250	Barrier Layer	
C36	4010000430	Ceramic	DD109 SL 471J 50V	C126	4010000520	Ceramic	
C37	4010000340	Ceramic	DD105 SL 121J 50V	C127	4010000520	Ceramic	
C38	4020000030	Cylinder	UP125 SL 2R2K	C128	4010000350	Ceramic	
C39	4020000030	Ceramic	DD104 SL 050C 50V	C128	4010000350	Ceramic	
				C129	 Interfection and the second secon second second sec	Ceramic	
C40	4040000260	Barrier Layer	UZE 08X 104M		4010000520		
C42	4040000260	Barrier Layer	UZE 08X 104M	C132	4010000520	Ceramic	
C43	4010000520	Ceramic	DD108 B 472K 50V	C133	4010000520	Ceramic	
C44	4010000520	Ceramic	DD108 B 472K 50V	C135	4010000520	Ceramic	
C46	4010000520	Ceramic	DD108 B 472K 50V	C136	4010000520	Ceramic	
C47	4010000200	Ceramic	DD104 SL 270J 50V	C137	4010000180	Ceramic	
C49	4010000520	Ceramic	DD108 B 472K 50V	C138	4010000520	Ceramic	
C50	4040000150	Barrier Layer	UAT 05X 472K	C139	4010000500	Ceramic	
C51	4510001100	Electrolytic	16 MS7 10 μF	C140	4010000520	Ceramic	
C52	4040000150	Barrier Layer	UAT USA 472N	0141	4010000520	Ceramic	
C53	4040000150	Barrier Layer	UAT 05X 472K	0176	401000080	Ceramic	
C54	4040000150	Barrier Layer	UAT 05X 472K		404000080	Barrier Layer	
C55	4010000520	Ceramic	DD108 B 472K 50V		4040000170	Barrier Layer	
C56	4010000520	Ceramic	DD108 B 472K 50V	C145	4040000460	Barrier Layer	
C58	4010000340	Ceramic	DD105 SL 121J 50V	C146	4040000210	Barrier Layer	
C59	4010000180	Ceramic	DD104 SL 220J 50V	G147	404000090	Barrier Layer	
C60	4510001100	Electrolytic	16 MS7 10 μF	C148	404000070	Barrier Layer	
C61	4510002640	Electrolytic	25 SS 47 μF	C149	402000630	Cylinder	
C62	4040000260	Barrier Layer	UZE 08X 104M	C150	4040000070	Barrier Layer	
C64	4010000520	Ceramic	DD108 B 472K 50V	C151	4040000250	Barrier Layer	
C65	4010000520	Ceramic	DD108 B 472K 50V	C152	4040000260	Barrier Layer	
C66	4040000260	Barrier Layer	UZE 08X 104M	C153	404000260	Barrier Layer	
C67	4040000150	Barrier Layer	UAT 05X 472K	C154	4010000520	Ceramic	
C68	4040000150	Barrier Layer	UAT 05X 472K	C155	404000090	Barrier Layer	
C69	4040000260	Barrier Layer	UZE 08X 104M	C156	4040000110	Barrier Layer	
C70	4040000250	Barrier Layer	UAT 08X 473M	C157	4010000410	Ceramic	
C71	4040000250	Barrier Layer	UAT 08X 473M	C158	4010000520	Ceramic	
C72	4010000330	Ceramic	DD105 SL 101J 50V	C159	404000080	Barrier Layer	
C73	4040000250	Barrier Layer	UAT 08X 473M	C160	4010000360	Ceramic	
C74	4040000250	Barrier Layer	UAT 08X 473M	C161	404000080	Barrier Layer	
C75	4040000250	Barrier Layer	UAT 08X 473M	C162	4040000110	Barrier Layer	
C77	4010000160	Ceramic	DD104 SL 180J 50V	C163	4040000210	Barrier Layer	
C78	4010000340	Ceramic	DD105 SL 121J 50V	C164	404000080	Barrier Layer	
C79	4010000280	Ceramic	DD104 SL 560J 50V	C165	4040000250	Barrier Layer	
C80	4010000280	Ceramic	DD104 SL 560J 50V	C166	4010000520	Ceramic	
C81	4040000260	Barrier Layer	UZE 08X 104M	C167	4010000440	Ceramic	
C82	4010000120	Ceramic	DD104 SL 100D 50V	C168	4010000330	Ceramic	
C83	4010004840	Ceramic	DD305 F 104Z 12V	C169	4010000430	Ceramic	
C84	4010004840	Ceramic	DD305 F 104Z 12V	C170	4040000080	Barrier Layer	
C85	4010004840	Ceramic	DD104 B 102K 50V	G171	4040000080	Barrier Layer	
C85 C86	4010000500	Barrier Layer	UZE 08X 104M	G171	4040000160	Barrier Layer	
C87	4040000280	Ceramic	DD104 SL 050C 50V	C173	4040000250	Barrier Layer	
	1			C174	4010000230	Ceramic	
C89	4010000100	Ceramic	DD104 SL 080D 50V		 Constraint of the second s	and the second	
C90	4010000100	Ceramic	DD104 SL 080D 50V	C175	4010000410	Ceramic	
C91	4040000260 4010000520	Barrier Layer Ceramic	UZE 08X 104M DD108 B 472K 50V	C176	4010000270 4010000410	Ceramic Ceramic	
C92				C177	1 ALT 11 N N N A 3 ()	r r.oramic	

[MAIN UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION		R
C178	4010000410	Ceramic	DD107 SL 331J 50V		C2
C179	4040000320	Barrier Layer	UAT 05V 272K		C2
C180	4010000410	Ceramic	DD107 SL 331J 50V		C2
C181	4040000250	Barrier Layer	UAT 08X 473M DD108 B 472K 50V		C2 C2
C182 C183	4010000520 4010000410	Ceramic Ceramic	DD108 B 472K 50V DD107 SL 331J 50V		
C184	4010000260	Ceramic	DD104 SL 470J 50V		C2
C185	4010000380	Ceramic	DD107 SL 221J 50V		C2
C186	4010000380	Ceramic	DD107 SL 221J 50V		C2
C187	4040000100	Barrier Layer	UAT 04X 182K		C2
C188	4010000370	Ceramic	DD106 SL 201J 50V		C2
C189	4040000250	Barrier Layer	UAT 08X 473M		
C190 C191	4010000520 4010000380	Ceramic Ceramic	DD108 B 472K 50V DD107 SL 221J 50V		
C191 C192	4010000380	Ceramic	DD104 SL 180J 50V		
C193	4010000330	Ceramic	DD105 SL 101J 50V		Cź
C194	4010000380	Ceramic	DD107 SL 221J 50V		C2
C195	404000080	Barrier Layer	UAT 04X 122K		C2
C196	4010000350	Ceramic	DD106 SL 151J 50V		C2
C197	4040000250	1	UAT 08X 473M		Ca
C198	4010000520	Ceramic	DD108 B 472K 50V		Ca
C199	4010000220	Ceramic	DD104 SL 330J 50V		
C200 C201	4010000340 4010000240	Ceramic Ceramic	DD105 SL 121J 50V DD104 SL 390J 50V		
C201	4010000300	Ceramic	DD104 SL 680J 50V		
C203	4010000340	Ceramic	DD105 SL 121J 50V		Ca
C204	4040000460	Barrier Layer	RAU 08SA 821K		Cź
C205	4010000330	Ceramic	DD105 SL 101J 50V		C2
C206	4040000250	Barrier Layer	UAT 08X 473M		Ca
C207	4010000520	Ceramic	DD108 B 472K 50V		C
C208	4530000350	Capacitor Array	B82C0111-32N DD108 B 472K 50V		
C209 C210	4010000520	Ceramic Electrolytic	16 SS 470 μF (10X12.5)		
C210	4040000260	Barrier Layer	UZE 08X 104M		
C212	4510003040	Electrolytic	16 SS 100 μF		C
C213	4510000310	Electrolytic	16 MS16 1000 μF		C2
	1. The		(12.5X16)		Cź
C214	4510002730	Electrolytic	10 SS 100 μF		C2
C215	4510002640	Electrolytic	25 SS 47 μF		
C216	4040000250 4510001140	Barrier Layer	UAT 08X 473M 50 MS7 R22 μF		
C217 C218	4510001140	Electrolytic	10 SS 100 μF		
C219	4040000110	Barrier Layer	UAT 04X 222K	1	C
C220	4310000060	Mylar	F2D 50V 223K		C2
C221	4510001100	Electrolytic	16 MS7 10 μF		C2
C222	4510002640	Electrolytic	25 SS 47 μF		Cź
C223	4510001170	Electrolytic	50 MS7 2R2 μF		C2
C224	4040000150	Barrier Layer	UAT 05X 472K		03
C225	4510001150	Electrolytic	50 MS7 R47 μF UAT 06X 153K		
C226 C227	4040000210 4010000520	Barrier Layer Ceramic	DD108 B 472K 50V		
C228	4040000150	Barrier Layer	UAT 05X 472K		C3
C229	4040000150	Barrier Layer	UAT 05X 472K		03
C230	4010000840	Ceramic	DD105 CH 390J 50V		C
C231	4010001020	Ceramic	DD111 CH 221J 50V		C
C232	4010001020	Ceramic	DD111 CH 221J 50V		C
C233	4010000520	Ceramic	DD108 B 472K 50V		
C234	4010000520	Ceramic	DD108 B 472K 50V DD108 B 472K 50V		
C235 C236	4010000520 4040000250	Ceramic Barrier Layer	UAT 08X 473M		
C237	4010000180	Ceramic	DD104 SL 220J 50V		
C238	4010000520	Ceramic	DD108 B 472K 50V		RI
C239	4010000520	Ceramic	DD108 B 472K 50V		RI
C240	4010000520	Ceramic	DD108 B 472K 50V		
C241	4010000220	Ceramic	DD104 SL 330J 50V		S1
C242	4310000060	Mylar	F2D 50V 223K		S2
C243	4310000060	Mylar	F2D 50V 223K		
C244 C245	4310000060 4510001100	Mylar Electrolytic	F2D 50V 223K 16 MS7 10 μF		s
C245 C246	4510001100	Electrolytic	25 SS 22 μF		
C240	4040000150	Barrier Layer	UAT 05X 472K		
C248	4510002640	Electrolytic	25 SS 47 µF		EF
C249	4510001160	Electrolytic	50 MS7 1 μF		
C250	4510001170	Electrolytic	50 MS7 2R2 μF		
0200			50 MS7 1 μF		

REF. NO.	ORDER NO.	DI	ESCRIPTION
252	4510001160	Electrolytic	50 MS7 1 μF
253	4010000520	Ceramic	DD108 B 472K 50V DD108 B 472K 50V
254 255	4010000520 4010000520	Ceramic Ceramic	DD108 B 472K 50V
256	4010000520	Ceramic	DD108 B 472K 50V
257	4010000520	Ceramic	DD108 B 472K 50V
258	4010000330	Ceramic	DD105 SL 101J 50V
259	4010000520	Ceramic	DD108 B 472K 50V
260 261	4040000260 4510001100	Barrier Layer Electrolytic	UZE 08X 104M 16 MS7 10 μF
262	4040000250	Barrier Layer	UAT 08X 473M
263	4010000500	Ceramic	DD104 B 102K 50V
264	4510001160	Electrolytic	50 MS7 1 μF
265	4040000190	Barrier Layer	UAT 05X 103K UAT 05X 103K
266 267	4040000190 4510001150	Barrier Layer Electrolytic	50 MS7 R47 µF
268	4510001150	Electrolytic	50 MS7 R47 µF
269	4510002810	Electrolytic	16 SS 47 μF
270	4040000260	Barrier Layer	UZE 08X 104M
271	4510002810 4530000350	Electrolytic Capacitor Array	16 SS 47 μF B8ZC0111-32N
272 273	4510001160	Electrolytic	50 MS7 1 µF
274	4010000460	Ceramic	DD104 B 471K 50V
275	4010000520	Ceramic	DD108 B 472K 50V
276	4510001770	Electrolytic	16 RBP 10 μF
277	4510002740	Electrolytic	10 SS 220 µF
278 279	4510001120 4040000150	Electrolytic Barrier Layer	25 MS7 4R7 μF UAT 05X 472K
280	4040000150	Barrier Layer	UAT 05X 472K
281	4010000240	Ceramic	DD104 SL 390J 50V
282	4010000160	Ceramic	DD104 SL 180J 50V
283	4510001150	Electrolytic	50 MS7 R47 μF DD108 B 472K 50V
284 285	4010000520 4010000520	Ceramic Ceramic	DD108 B 472K 50V
286	4010000520	Ceramic	DD108 B 472K 50V
287	4010000520	Ceramic	DD108 B 472K 50V
288	4010000520	Ceramic	DD108 B 472K 50V
289	4010000520	Ceramic	DD108 B 472K 50V
290 291	4010000520 4010000430	Ceramic Ceramic	DD108 B 472K 50V DD109 SL 471J 50V
292	4010000520	Ceramic	DD108 B 472K 50V
293	4510001140	Electrolytic	50 MS7 R22 µF
294	4610001200	Trimmer	CVSSE3001
295	4010000500	Ceramic	DD104 B 102K 50V UAT 08X 473M
297 298	4040000250 4040000260	Barrier Layer Barrier Layer	UZE 08X 104M
299	4040000260	Barrier Layer	UZE 08X 104M
300	4040000250	Barrier Layer	UAT 08X 473M
301	4010000520	Ceramic	DD108 B 472K 50V
311	404000250	Barrier Layer	UAT 08X 473M
312 313	4030000910 4010000600	Ceramic Ceramic	GRM40 CH 120J 50PT DD104 CK 010C 50V
314	4030000910	Ceramic	GRM40 CH 120J 50PT
315	4040000250	Barrier Layer	UAT 08X 473M
316	4010004840	Ceramic	DD305 F 104Z 12V
319	4010000500 4610000780	Ceramic Trimmer	DD104 B 102K 50V CV38D 2001
320 321	4020000250	Cylinder	UP125 X 472M
322	4310000090	Mylar	F2D 50V 333K
	6330000800	Polov	G5A-237P DC12V
L1 L2	6330000800 6330000560	Relay Relay	OUC-SH-114D
1	2220000360	Switch	ESD-1111212
2	2230000700	Switch	SPPJ31309A [BK IN]
01	6510006640	Switch	50864-1
P1	0910024033	P.C. Board	B 2297C (MAIN)

[PLL UNIT]

REF.

NO.

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L21 6180000880 Coil LAL 03NA 100K
L22 6180000880 Coil LAL 03NA 100K

[PLL UNIT]

REF. NO.	ORDER NO.		DESCRIPTION		REF. NO.
L23	6180000720	Coil	LAL 03NA R39M		R34
L24	6180000700	Coil	LAL 03NA R27M		R35
L25	6180000690	Coil	LAL 03NA R22M		R36
L26	6180000960	Coil	LAL 03NA 102K		R37
L27	6180000900	Coil	LAL 03NA 101K		R38
L28 L29	6180000900 6180000900	Coil Coil	LAL 03NA 101K LAL 03NA 101K		R39 R40
L29 L30	6110001650	Coil	LAL USINA IUTK	1	R40
L31	6170000180	Coil	LW-19		R42
L32	6180000850	Coil	LAL 03NA 4R7K		R43
L33	6910000670	Coil	BT01RN1-A61-001		R44
L34	6170000180	Coil	LW-19		R45
L35	6150000760	Coil	LS-94		R46
L36	6180000900	Coil	LAL 03NA 101K		R47
L37	6180000900	Coil	LAL 03NA 101K		R48
L38	6150000990	Coil	LS-114		R49
L39	6150000990	Coil	LS-114		R50
L40 L41	6910003570 6110001640	Coil	2943-666663		R51
L41 L42	6180000880	Coil Coil	LA-247		R52 R53
L42 L43	6180000900	Coil	LAL 03NA 100K LAL 03NA 101K		R53
L43	6910000670	Coil	BT01RN1-A61-001		R55
L44 L45	6180000960	Coil	LAL 03NA 102K		R56
L45	6910003570	Coil	2943-666663		R57
L47	6180000900	Coil	LAL 03NA 101K	2	R58
L48	6180000960	Coil	LAL 03NA 102K		R59
L49	6110001560	Coil	LA-236		R60
L50	6180000960	Coil	LAL 03NA 102K		R61
L51	6180000960	Coil	LAL 03NA 102K		R62
L52	6150001770	Coil	LS-198		R63
L53	6150001770	Coil	LS-198		R64
L54	6150001770	Coil	LS-198	1	R65
L55	6110001630	Coil	LA-246		R66
L56	6140002050	Coil	LR-224		R67
L57	6140002050	Coil	LR-224		R68
L58 L59	6150002880	Coil	LS-302		R69
L60	6150002880 6150002880	Coil Coil	LS-302 LS-302		R70
L61	6150002880	Coil	LS-302 LS-302		R71 R72
L62	6180000880	Coil	LAL 03NA 100K		R73
-02	010000000		EAL OUNA TOUR		R74
					R75
R1	7010003780	Resistor	ELR20J 1 MΩ		R76
R2	7010003550	Resistor	ELR20J 15 kΩ		R77
R3	7010004320	Resistor	R20J 10 kΩ		R78
R4	7010003810	Resistor	ELR20J 2.2 MΩ		R79
R5	7010003780	Resistor	ELR20J 1 MΩ		R80
R6	7010003550	Resistor	ELR20J 15 kΩ		R81
R7	7010001400	Resistor	R25J 100 kΩ		R82
R8	7010003700	Resistor	ELR20J 220 kΩ		R83
R9	7010003660	Resistor	ELR20J 100 kΩ		R84
R10	7010003700	Resistor	ELR20J 220 kΩ		R85
R11 R12	7010003660 7010003660	Resistor Resistor	ELR20J 100 kΩ ELR20J 100 kΩ		R86 R87
R12	7010003880	Resistor	R20J 10 kΩ	· · · ·	R87
R14	7010004320	Resistor	R25J 10 kΩ		R89
R15	7010004210	Resistor	R20J 1.5 kΩ	Sector 1	R90
R16	7010003530	Resistor	ELR20J 10 kΩ		R91
R17	7010003620	Resistor	ELR20J 47 kΩ		R92
R18	7010004450	Resistor	R20J 100 kΩ		R93
R19	7010003620	Resistor	ELR20J 47 kΩ		R94
R20	7010003620	Resistor	ELR20J 47 kΩ		R95
R21	7010004320	Resistor	R20J 10 kΩ		R96
R22	7010003620	Resistor	ELR20J 47 kΩ		R97
R23	7010003400	Resistor	ELR20J 1 kΩ		R98
R24	7010003400	Resistor	ELR20J 1 kΩ		R99
R25	7010003400	Resistor	ELR20J 1 kΩ		R100
R26	7010003400	Resistor	ELR20J 1 kΩ		R101
R27	7010003400	Resistor	ELR20J 1 kΩ		R102
R28	7010003400 7010001150	Resistor	ELR20J 1 kΩ		R103
D20		Resistor	R25J 1 kΩ R25J 1 kΩ		R104 R105
R29	7010001150				
R30	7010001150	Resistor			8
	7010001150 7010001150 7010001150	Resistor Resistor Resistor	R25J 1 KΩ R25J 1 kΩ R25J 1 kΩ		R105 R106 R107

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REF. NO.	ORDER NO.	D	ESCRIPTION
R34	7010001150	Resistor	R25J 1 kΩ
R35	7010005230	Resistor	ELR20J 750 Ω
R36	7010003430	Resistor	ELR20J 1.8 kΩ
R37 R38	7010003460	Resistor Resistor	ELR20J 3.3 kΩ ELR20J 5.6 kΩ
R39	7010003490 7010003530	Resistor	ELR20J 10 k Ω
R40	7010003480	Resistor	ELR20J 4.7 kΩ
R41	7010004190	Resistor	R20J 1 kΩ
R42	7010004190	Resistor	R20J 1 kΩ
R43	7010001150	Resistor	R25J 1 kΩ
R44 R45	7010001150	Resistor Resistor	R25J 1 kΩ R25J 1 kΩ
R46	7010001150	Resistor	R25J 1 kΩ
R47	7010001150	Resistor	R25J 1 kΩ
R48	7010001150	Resistor	R25J 1 kΩ
R49	7010004670	Resistor	R50XJ 22 Ω
R50	7010003530	Resistor	ELR20J 10 kΩ
R51 R52	7010003240 7010003660	Resistor Resistor	ELR20J 47 Ω ELR20J 100 kΩ
R53	7010003530	Resistor	ELR20J 10 kΩ
R54	7010004030	Resistor	R20J 47 Ω
R55	7010003480	Resistor	ELR20J 4.7 kΩ
R56	7010003440	Resistor	ELR20J 2.2 kΩ
R57	7010003620	Resistor	ELR20J 47 kΩ
R58 R50	7010003620	Resistor	ELR20J 47 kΩ R20J 47 kΩ
R59 R60	7010004410 7010001400	Resistor Resistor	R25J 100 kΩ
R61	7010004410	Resistor	R20J 47 kΩ
R62	7010004410	Resistor	R20J 47 kΩ
R63	7010004410	Resistor	R20J 47 kΩ
R64	7010004410	Resistor	R20J 47 kΩ
R65	7010001360	Resistor	R25J 47 kΩ
R66 R67	7410000180 7010003530	Resistor Array Resistor	RMX-8 103K ELR20J 10 kΩ
R68	7010001360	Resistor	R25J 47 kΩ
R69	7010003640	Resistor	ELR20J 68 kΩ
R70	7210001530	Variable Resistor	RK09K1110AEGA (RIT)
R71	7010003460	Resistor	ELR20J 3.3 kΩ
R72	7010004070	Resistor	R20J 100 Ω
R73 R74	7010004670 7010003400	Resistor Resistor	R50XJ 22 Ω ELR20J 1 kΩ
R75	7010003700	Resistor	ELR20J 220 kΩ
R76	7010003440	Resistor	ELR20J 2.2 kΩ
R77	7010001150	Resistor	R25J 1 kΩ
R78	7010003660	Resistor	ELR20J 100 kΩ
R79	7010003660	Resistor	ELR20J 100 kΩ
R80	7010001060	Resistor Resistor	R25J 180 Ω
R81 R82	7010004090 7010003660	Resistor	R20J 150 Ω ELR20J 100 kΩ
R83	7010003660	Resistor	ELR20J 100 kΩ
R84	7010003310	Resistor	ELR20J 180 Ω
R85	7010003660	Resistor	ELR20J 100 kΩ
786 787	7010004450	Resistor	R20J 100 kΩ
787 788	7010003310 7010003660	Resistor	ELR20J 180 Ω ELR20J 100 kΩ
788 789	7010003660	Resistor Resistor	ELR20J 100 k Ω
790	7010003310	Resistor	ELR20J 180 Ω
791	7010004090	Resistor	R20J 150 Ω
792	7010004250	Resistor	R20J 3.3 kΩ
793	7010004090	Resistor	R20J 150 Ω
R94	7010004250	Resistor	R20J 3.3 kΩ
795 796	7010003300 7010004250	Resistor Resistor	ELR20J 150 Ω R20J 3.3 kΩ
190 797	7010004250	Resistor	ELR20J 150 Ω
798	7010003460	Resistor	ELR20J 3.3 kΩ
799	7010003780	Resistor	ELR20J 1 MΩ
R100	7010003780	Resistor	ELR20J 1 MΩ
R101	7010003360	Resistor	ELR20J 470 Ω
R102	7010003530	Resistor	ELR20J 10 kΩ R25J 47 Ω
R103 R104	7010000990 7010003480	Resistor Resistor	ELR20J 4.7 kΩ
3105	7010003480	Resistor	R20J 220 Ω
3106	7010003340	Resistor	ELR20J 330 Ω
3107	7010003990	Resistor	R20J 22 Ω
3108	7010003530	Resistor	ELR20J 10 kΩ

[PLL UNIT]

[PLL UNIT]

REF. NO.	ORDER NO.	í nesino	DESCRIPTION		REF. NO.	ORDER NO.	D	ESCRIPTION	
R109	7010003580	Resistor	ELR20J 22 kΩ	4.094 (R197	7010003280	Resistor	ELR20J 100 Ω	
R110	7010004070	Resistor	R20J 100 Ω		R198	7010003580	Resistor	ELR20J 22 kΩ	
R111	7010003200	Resistor	ELR20J 22 Ω	68525	R199	7010001030	Resistor	R25J 100 Ω	
R112	7010003320	Resistor	ELR20J 220 Ω		R200	7010003280	Resistor	ELR20J 100 Ω	
R113	7010003330	Resistor	ELR20J 270 Ω		R201	7010004030	Resistor	R20J 47 Ω	
R114	7010003980	Resistor	R20J 18 Ω		R202	7010001150	Resistor	R25J 1 kΩ	
R115	7010003330	Resistor	ELR20J 270 Ω		R203	7010004340	Resistor	R20J 15 kΩ	
R116	7010001150	Resistor	R25J 1 kΩ	1969 - 1 1969 - 1	R204	7010001320	Resistor	R25J 22 kΩ	
R117	7010001150	Resistor	R25J 1 kΩ		\$	2007- 1. 2007 (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
R118	7010004190	Resistor	R20J 1 kΩ	sile I time			l	DD404 D 40014 COV	
R119	7010001070	Resistor	R25J 220 Ω	- 440 - 1	C1	4010000500	Ceramic	DD104 B 102K 50V	
R121	7010003480	Resistor	ELR20J 4.7 kΩ		C2	4010000500	Ceramic	DD104 B 102K 50V	
R123	7010003280	Resistor	ELR20J 100 Ω		C3	4510001150	Electrolytic	50 MS7 R47 µF	
R124	7010004150	Resistor	R20J 470 Ω	in the second	C4	4010000520	Ceramic	DD108 B 472K 50V	
R125	7010003620	Resistor	ELR20J 47 kΩ	44896	C5	4010000500	Ceramic	DD104 B 102K 50V	
R126	7010003420	Resistor	ELR20J 1.5 kΩ	7298	C6	4010000500	Ceramic	DD104 B 102K 50V	
7127	7010004110	Resistor	R20J 220 Ω		C8	4010000500	Ceramic	DD104 B 102K 50V	
R128	7010003360	Resistor	ELR20J 470 Ω		C9	4310000010	Mylar	F2D 50V 102K	
3129	7010004110	Resistor	R20J 220 Ω	s litera - s Status	C10	4510001100	Electrolytic	16 MS7 10 µF	
3130	7010004190	Resistor	R20J 1 kΩ		C11	4510001100		16 MS7 10 μF	
3131	7010004190	Resistor	R20J 1 kΩ		C12	4550000350	Tantalum	DN 1V 010M	
3132	7010004190	Resistor	R20J 1 kΩ		C13	4550000400	Tantalum	DN 1C 2R2M	
7133	7010001230	Resistor	R25J 4.7 kΩ	niĝin - naŭ l	C14	4040000260	Barrier Layer	UZE 08X 104M	
3134	7010003160	Resistor	ELR20J 10 Ω		C15	4010000810	Ceramic	DD105 CH 300J 50V	
R136	7010003580	Resistor	ELR20J 22 kΩ		C16	4010000810	Ceramic	DD105 CH 300J 50V	
7137	7010003660	Resistor	ELR20J 100 kΩ		C17	4550000400	Tantalum	DN 1C 2R2M	
7138	7010004090	Resistor	R20J 150 Ω		C18	4510002640	Electrolytic	25 SS 47 µF	
R139	7010003440	Resistor	ELR20J 2.2 kΩ	699 F	C19	4040000260	Barrier Layer	UZE 08X 104M	
3140	7010003530	Resistor	ELR20J 10 kΩ		C20	4510003040	Electrolytic	16 SS 100 µF	
R141	7010003480	Resistor	ELR20J 4.7 kΩ	1.884	C21	4530000150	Capacitor Array	B7ZC0711-32N	
3142	7010003340	Resistor	ELR20J 330 Ω	stalling a	C22	4010000520	Ceramic	DD108 B 472K 50V	
3143	7010004110	Resistor	R20J 220 Ω	233 - S	C23	4530000270	Capacitor Array	B8XC0114-32N	
3144	7010003280	Resistor	ELR20J 100 Ω	8×9%	C24	4040000250	Barrier Layer	UAT 08X 473M	
3145	7010003240	Resistor	ELR20J 47 Ω		C25	4040000260	Barrier Layer	UZE 08X 104M	
7146	7010003280	Resistor	ELR20J 100 Ω	spiller - C	C26	4010000520	Ceramic	DD108 B 472K 50V	
R147	7010003530	Resistor	ELR20J 10 kΩ		C27	4510003040	Electrolytic	16 SS 100 µF	
R149	7010004070	Resistor	R20J 100 Ω	1944 - A.	C28	4010000500	Ceramic	DD104 B 102K 50V	
3150	7010004190	Resistor	R20J 1 kΩ	Sec. 1	C29	4510001750	Electrolytic	50 RBP 2.2 μF	
3151	7010003600	Resistor	ELR20J 33 kΩ		C31	4010003460	Ceramic	DD104 UJ 330J 50V	
7152	7010003440	Resistor	ELR20J 2.2 kΩ		C32	4040000250	Barrier Layer	UAT 08X 473M	
R153	7010003280	Resistor	ELR20J 100 Ω	-87-1	C33	4010000940	Ceramic	DD107 CH 101J 50V	
3155	7010004190	Resistor	R20J 1 kΩ	1 SVS	C34	4010000770	Ceramic	DD104 CH 200J 50V	
R156	7010003480	Resistor	ELR20J 4.7 kΩ	ana see	C35	4610001130	Trimmer	CVSSA1001	
R157	7010003550	Resistor	ELR20J 15 kΩ	1	C36	4010000900	Ceramic	DD107 CH 680J 50V	
R157	7010003360	Resistor	ELR20J 470 Ω	seg of	C37	4510002640	Electrolytic	25 SS 47 µF	
R150	7010003380	Resistor	ELR20J 470 Ω		C38	4010000720	Ceramic	DD104 CH 120J 50V	
	7010003320	Resistor	ELR20J 220 Ω	1.884	C39	4010000720	Ceramic	DD104 CH 120J 50V	
R160	a contra de contra de la contra d	4.0000			2 N	4010000520	12 - 23 s	DD108 B 472K 50V	
7161 2162	7010003530	Resistor	ELR20J 10 kΩ		C40	4010000520	Ceramic Ceramic	DD108 B 472K 50V	
R162	7010003410	Resistor	ELR20J 1.2 kΩ		C41	sam a radiance interaction	Ceramic	DD108 B 472K 50V DD104 SL 010C 50V	
R163	7010003530	Resistor	ELR20J 10 kΩ	1947 1947	C42	401000020	and a size	DD104 SL 010C 50V	
R164	7010004370	Resistor	R20J 22 kΩ		C43	4010000500	Ceramic Ceramic		
R165	7010003300	Resistor	ELR20J 150 Ω		C44	4010000900		DD107 CH 680J 50V	
R166	7010001030	Resistor	R25J 100 Ω		C45	4010000740	Ceramic	DD104 CH 150J 50V	
R167	7010003530	Resistor	ELR20J 10 kΩ		C46	4610001130	Trimmer	CVSSA1001	
R168	7010003530	Resistor	ELR20J 10 kΩ	internal Transfer	C47	401000860	Ceramic	DD106 CH 470J 50V	
R169	7010003530	Resistor	ELR20J 10 kΩ	1893	C48	4510002640	Electrolytic	25 SS 47 µF	
R170	7010003530	Resistor	ELR20J 10 kΩ		C49	4010000720	Ceramic	DD104 CH 120J 50V	
R171	7010003620	Resistor	ELR20J 47 kΩ		C50	4010000720	Ceramic	DD104 CH 120J 50V	
R172	7010004410	Resistor	R20J 47 kΩ		C51	4010000520	Ceramic	DD108 B 472K 50V	
R173	7010004150	Resistor	R20J 470 Ω		C52	4010000520	Ceramic	DD108 B 472K 50V	
R174	7010004320	Resistor	R20J 10 kΩ		C53	401000020	Ceramic	DD104 SL 010C 50V	
R175	7010004190	Resistor	R20J 1 kΩ		C54	4010000260	Ceramic	DD104 SL 470J 50V	
R176	7010003360	Resistor	ELR20J 470 Ω		C55	4010000270	Ceramic	DD104 SL 510J 50V	
R177	7010003360	Resistor	ELR20J 470 Ω		C56	4010000500	Ceramic	DD104 B 102K 50V	
R178	7010003360	Resistor	ELR20J 470 Ω		C57	4010000870	Ceramic	DD106 CH 510J 50V	
R179	7010003400	Resistor	ELR20J 1 kΩ	- 1920 - E	C58	4010000700	Ceramic	DD104 CH 100D 50V	
R180	7010003460	Resistor	ELR20J 3.3 kΩ		C59	4610001000	Trimmer	CVSSA0701	
R181	7010003760	Resistor	ELR20J 680 kΩ	19-57	C60	4010000860	Ceramic	DD106 CH 470J 50V	
R182	7010004320	Resistor	R20J 10 kΩ	102468	C61	4510002640	Electrolytic	25 SS 47 µF	
3190	7010004190	Resistor	R20J 1 kΩ	. Ne ref	C62	4010000680	Ceramic	DD104 CH 080D 50V	
3191	7010003530	Resistor	ELR20J 10 kΩ	4.4	C63	4010000720	Ceramic	DD104 CH 120J 50V	
R193	7010003480	Resistor	ELR20J 4.7 kΩ	0.00	C64	4010000520	Ceramic	DD108 B 472K 50V	
R193	7010003480	Resistor	ELR20J 4.7 kΩ ELR20J 4.7 kΩ	a na sa di	C65	4010000520	Ceramic	DD108 B 472K 50V	
R194 R195	7010003480	1.000	ELR20J 4.7 kΩ ELR20J 4.7 kΩ	3143	C66	4010000520	Ceramic	DD108 B 472K 50V DD104 SL 010C 50V	
R195	7010003480	Resistor			(a) (a) (b) (b) (b) (b)	and the second		DD104 SL 010C 50V	
	1 /1118885550	Resistor	ELR20J 10 kΩ	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	C67	4010000500	Ceramic	VUI D IVEN DUV	

[PLL UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
C68	4010000860	Ceramic	DD106 CH 470J 50V
C69	4010000630	Ceramic	DD104 CJ 030C 50V
C70	4610001000	Trimmer	CVSSA0701
C71	4010000820	Ceramic	DD105 CH 330J 50V
C72 C73	4510002640	Electrolytic	25 SS 47 µF
C73	4010000660	Ceramic Ceramic	DD104 CH 060D 50V DD104 CH 120J 50V
C75	4010000520	Ceramic	DD104 CH 1203 30V
C76	4040000260	Barrier Layer	UZE 08X 104M
C77	4510002730	Electrolytic	10 SS 100 μF
C78	4010000520	Ceramic	DD108 B 472K 50V
C79	4010000020	Ceramic	DD104 SL 010C 50V
C80	4010000500	Ceramic	DD104 B 102K 50V
C81	4010000260	Ceramic	DD104 SL 470J 50V
C82 C83	4040000150 4010000460	Barrier Layer	UAT 05X 472K
C84	4040000250	Ceramic Barrier Layer	DD104 B 471K 50V UAT 08X 473M
C85	4010000380	Ceramic	DD107 SL 221J 50V
C86	4010000500	Ceramic	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	4010000160	Ceramic	DD104 SL 180J 50V
C91	4010000200	Ceramic	DD104 SL 270J 50V
C92	4010000230	Ceramic	DD104 SL 360J 50V
C93 C94	4010000180 4010000120		DD104 SL 220J 50V DD104 SL 100D 50V
C94 C95	4010000120 4040000150	Ceramic Barrier Layer	UAT 05X 472K
C95 C96	4010000520	Ceramic	DD108 B 472K 50V
C97	4040000150		UAT 05X 472K
C98	4010000520	Ceramic	DD108 B 472K 50V
C99	4010000300		DD104 SL 680J 50V
C100	401000080	Ceramic	DD104 SL 060D 50V
C101	4010000320	Ceramic	DD104 SL 820J 50V
C102	4010000160	Ceramic	DD104 SL 180J 50V
C103	4010000310	Ceramic	DD104 SL 750J 50V
C104	4010000520	Ceramic	DD108 B 472K 50V
C105 C106	4040000260	Barrier Layer	UZE 08X 104M
C100 C107	4010000520 4040000250	Ceramic Barrier Layer	DD108 B 472K 50V UAT 08X 473M
C108	4010000520	Ceramic	DD108 B 472K 50V
C109	4010000460	Ceramic	DD104 B 471K 50V
C110	4010000210	Ceramic	DD104 SL 300J 50V
C111	4010000410	Ceramic	DD107 SL 331J 50V
C112	4020000260	Cylinder	TP125 X 103M
C113	4040000260	Barrier Layer	UZE 08X 104M
C114	4550000400	Tantalum	DN 1C 2R2M
C115	4010000520	Ceramic	DD108 B 472K 50V
C116 C117	4010000740 4010000810	Ceramic Ceramic	DD104 CH 150J 50V DD105 CH 300J 50V
C118	4010000900	-	DD103 CH 3003 50V
C119	4010000720	Ceramic	DD104 CH 120J 50V
C120	4010000720	Ceramic	DD104 CH 120J 50V
C121	4040000150	Barrier Layer	UAT 05X 472K
C122	4510001100	Electrolytic	16 MS7 10μF
C123	4010000500	Ceramic	DD104 B 102K 50V
C124	4010000520	Ceramic	DD108 B 472K 50V
C125	4010000520	Ceramic	DD108 B 472K 50V
C126	4010000380	Ceramic Barrier Lever	DD107 SL 221J 50V
C127 C128	4040000260 4040000260	Barrier Layer Barrier Layer	UZE 08X 104M UZE 08X 104M
C128 C129	4040000280	Barrier Layer	UAT 05X 472K
C129 C130	4010000500	Ceramic	DD104 B 102K 50V
C131	4040000260	Barrier Layer	UZE 08X 104M
C132	4510002640	Electrolytic	25 SS 47 μF
C133	4010000270	Ceramic	DD104 SL 510J 50V
C134	4610001120	Trimmer	CVSSC2001
C135	4010003100	Ceramic	DD106 TH 820J 50V
C136	4010000520	Ceramic	DD108 B 472K 50V
C137	4010000520	Ceramic	DD108 B 472K 50V
C138	4010003100	Ceramic	DD106 TH 820J 50V
C139	4550000320	Tantalum Parrier Lever	DN 1V 0R1M
C140 C141	4040000150 4010000500	Barrier Layer Ceramic	UAT 05X 472K DD104 B 102K 50V
C141	4010000500	Ceramic	DD104 B 102K 50V

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C143 4010000500 Ceramic DD104 B 102K 50V C145 4010000300 Ceramic DD107 SL 221J 50V C146 4010000100 Ceramic DD104 SL 080D 50V C147 4010000100 Ceramic DD104 SL 080D 50V C148 4010000520 Ceramic DD104 SL 080D 50V C150 4010000520 Ceramic DD104 SL 080D 50V C151 4040000260 Barrier Layer UZE 08X 104M C152 4040000190 Barrier Layer UZE 08X 104M C153 4510000310 Barrier Layer UAT 05X 103K C164 404000190 Barrier Layer UAT 05X 103K C154 4040000150 Ceramic DD108 B 472K 50V C164 4010000520 Ceramic DD108 B 472K 50V C164 4010000150 Ceramic DD108 B 472K 50V C164 4010000150 Barrier Layer UAT 05X 103K C164 4010000160 Ceramic D104 SL 300J 50V C164 4010000160 Ceramic	REF. NO.	ORDER NO.	Dana D	ESCRIPTION
C144 4010000380 Ceramic DD107 SL 221J 50V C146 4040000260 Barrier Layer UZE 08X 104M C147 401000010 Ceramic DD104 SL 080D 50V C148 401000010 Ceramic DD104 SL 080D 50V C151 4010000520 Ceramic DD104 SL 080D 50V C152 404000260 Barrier Layer UZE 08X 104M C152 4040000210 Barrier Layer UZE 08X 104M C154 4040000190 Barrier Layer UAT 05X 103K C155 4040000190 Barrier Layer UAT 05X 103K C156 404000150 Barrier Layer UAT 05X 103K C157 4010000210 Ceramic DD108 B 472K 50V C160 402000180 Cylinder UP125 B 471K C161 404000210 Ceramic DD104 SL 20J 50V C163 4010000180 <t< td=""><td></td><td></td><td>Coramia</td><td>DD104 B 102K 50V</td></t<>			Coramia	DD104 B 102K 50V
C145 4040000260 Barrier Layer UZE 08X 104M C147 401000050 Ceramic DD104 SL 080D 50V C144 401000050 Ceramic DD104 SL 080D 50V C150 401000260 Ceramic DD108 B 472K 50V C151 404000260 Barrier Layer UZE 08X 104M C152 404000260 Barrier Layer UZE 08X 104M C153 451000310 Electrolytic 16 MS16 1000 µF C154 404000210 Barrier Layer UAT 05X 103K C155 404000190 Barrier Layer UAT 05X 103K C156 404000190 Barrier Layer UAT 05X 103K C157 4010000520 Ceramic DD108 B 472K 50V C164 404000210 Ceramic DD104 SL 300J 50V C164 401000210 Ceramic DD104 SL 200J 50V C164 401000210 Ceramic D104 SL 300J 50V C164 404000250 Barrier Layer UAT 06X 473M C166 404000250 Barrier Layer UAT 08X 473M </td <td></td> <td></td> <td></td> <td></td>				
C146 4010000100 Ceramic DD104 SL 080D SOV C147 4010000520 Ceramic DD104 SL 080D SOV C148 4010000100 Ceramic DD104 SL 080D SOV C151 401000260 Barrier Layer UZE 08X 104M UZE 08X 104M C152 404000260 Barrier Layer UAT 05X 103K UAT 05X 103K C155 4040000190 Barrier Layer UAT 05X 103K UAT 05X 103K C156 4040000190 Barrier Layer UAT 05X 103K UAT 05X 103K C156 4040000190 Barrier Layer UAT 05X 103K UAT 05X 103K C157 4010000520 Ceramic DD108 B 472K 50V UAT 05X 103K C158 4040000190 Barrier Layer UAT 05X 103K UAT 05X 103K C164 4010000210 Ceramic DD104 SL 20J 50V C164 C164 401000250 Barrier Layer UAT 06X 473M C164 C164 404000250 Barrier Layer UAT 08X 473M C166 <td>1</td> <td></td> <td></td> <td></td>	1			
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C180 4010000330 Ceramic DD105 SL 101J 50V C181 401000070 Ceramic DD104 CH 200J 50V C182 401000060 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 C185 4010000760 Ceramic DD104 CH 180J 50V C185 4010000760 Ceramic DD109 SL 471J 50V C186 4010000760 Ceramic DD104 CH 180J 50V C187 4040000150 Barrier Layer UAT 05X 472K C188 4010000520 Ceramic DD104 CK 020C 50V C189 401000520 Ceramic DD108 B 472K 50V C194 401000520 Ceramic DD108 B 472K 50V C195 401000520 Ceramic DD108 B 472K 50V C196 455000400 Tantalum DN 1C 2R2M C197 4010000520 Ceramic DD108 B 472K 50V C198 4010000520 Ceramic DD108 B 472K 50V	1 1			
C181 401000770 Ceramic DD104 CH 200J 50V C182 4010000620 Ceramic DD104 CK 020C 50V C183 4010000760 Ceramic DD104 CK 020C 50V C183 4010000340 Ceramic DD105 SL 121J 50V C184 4010000340 Ceramic DD109 SL 121J 50V C185 4010000430 Ceramic DD109 SL 471J 50V C186 4010000760 Ceramic DD104 CH 180J 50V C186 4010000760 Ceramic DD104 CH 200J 50V C187 404000150 Barrier Layer UAT 05X 472K C C188 4010000520 Ceramic DD104 CK 020C 50V C193 4010000520 Ceramic DD108 B 472K 50V C194 4010000520 Ceramic DD108 B 472K 50V C195 4010000520 Ceramic DD108 B 472K S0V C196 455000400 Tantalum DN 1C 2R2M C198 <td< td=""><td>. 1</td><td></td><td></td><td></td></td<>	. 1			
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 C186 4010000760 Ceramic DD104 CH 180J 50V C186 4010000760 Ceramic DD104 CK 020C 50V C187 404000150 Barrier Layer UAT 05X 472K C188 4010000520 Ceramic DD104 CK 020C 50V C193 4010000520 Ceramic DD108 B 472K 50V C194 401000520 Ceramic DD108 B 472K 50V C195 401000520 Ceramic DD108 B 472K 50V C196 455000400 Tantalum DN 1C 2R2M C197 4010000520 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD108 B 472K 50V C198 4010000520 Ceramic DD108 SL 72K 50V C198 4010000500 Ceramic DD108 B 472K 50V				
C183 4010000760 Ceramic DD104 CH 180J 50V C184 4010000340 Ceramic DD105 SL 121J 50V C185 4010000430 Ceramic DD109 SL 471J 50V C186 401000760 Ceramic DD109 SL 471J 50V C186 401000760 Ceramic DD104 CH 180J 50V C187 404000150 Barrier Layer UAT 05X 472K C188 401000620 Ceramic DD104 CK 020C 50V C189 4010000520 Ceramic DD104 CK 020C 50V C193 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 401000050 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD104 SL 030C 50V C198 401000050 Ceramic DD108 B 472K 50V RL1 6330000800 Relay G5A-237P DC12V BT1 3020000020 Lithium Battery BR2032-1T2 <td></td> <td></td> <td></td> <td></td>				
C185 4010000430 Ceramic DD109 SL 471J 50V C186 401000760 Ceramic DD104 CH 180J 50V C187 404000150 Barrier Layer UAT 05X 472K C188 4010000620 Ceramic DD104 CK 020C 50V C189 4010000770 Ceramic DD104 CH 200J 50V C193 401000520 Ceramic DD108 B 472K 50V C194 401000520 Ceramic DD108 B 472K 50V C195 401000520 Ceramic DD108 B 472K 50V C196 4550000400 Tantalum DN 1C 2R2M C197 4010000520 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD108 B 472K 50V C197 4010000520 Ceramic DD108 B 472K 50V C198 4010000520 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD108 B 472K 50V RL1 6330000800 Relay G5A-237P DC12V BT1 302000020 Lithium Battery BR2032-1T2 EP1 6910000600 Ferrite Bead FSOH050RN </td <td>C183</td> <td>4010000760</td> <td></td> <td>DD104 CH 180J 50V</td>	C183	4010000760		DD104 CH 180J 50V
C186 4010000760 Ceramic DD104 CH 180J 50V C187 404000150 Barrier Layer UAT 05X 472K C188 4010000620 Ceramic DD104 CK 020C 50V C189 4010000770 Ceramic DD104 CK 020C 50V C199 4010000520 Ceramic DD104 CH 200J 50V C193 4010000520 Ceramic DD108 B 472K 50V C194 4010000520 Ceramic DD108 B 472K 50V C195 4010000520 Ceramic DD108 B 472K 50V C195 4010000520 Ceramic DD108 B 472K 50V C196 4550000400 Tantalum DN 1C 2R2M C197 4010000520 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD108 B 472K 50V C198 4010000520 Ceramic DD108 B 472K 50V RL1 6330000800 Relay G5A-237P DC12V BT1 302000020 Lithium Battery BR2032-1T2 EP1 6910000600 Ferrite Bead FSOH050RN <td>C184</td> <td>4010000340</td> <td>Ceramic</td> <td></td>	C184	4010000340	Ceramic	
C187 4040000150 Barrier Layer UAT 05X 472K C188 401000620 Ceramic DD104 CK 020C 50V C189 4010000520 Ceramic DD104 CH 200J 50V C193 4010000520 Ceramic DD108 B 472K 50V C194 401000520 Ceramic DD108 B 472K 50V C195 401000520 Ceramic DD108 B 472K 50V C195 4010000520 Ceramic DD108 B 472K 50V C195 4010000520 Ceramic DD108 B 472K 50V C196 455000400 Tantalum DN 1C 2R2M C197 4010000520 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD108 B 472K 50V C198 4010000520 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD108 B 472K 50V RL1 6330000800 Relay G5A-237P DC12V BT1 302000020 Lithium Battery BR2032-1T2 EP1 6910000600 Ferrite Bead FSOH050RN	. 1			
C188 4010000620 Ceramic DD104 CK 020C 50V C189 401000770 Ceramic DD104 CH 200J 50V C193 401000520 Ceramic DD108 B 472K 50V C194 401000520 Ceramic DD108 B 472K 50V C195 401000520 Ceramic DD108 B 472K 50V C195 401000520 Ceramic DD108 B 472K 50V C196 455000400 Tantalum DN 1C 2R2M C197 401000050 Ceramic DD104 SL 030C 50V C198 401000050 Ceramic DD108 B 472K 50V RL1 6330000800 Relay G5A-237P DC12V BT1 302000020 Lithium Battery BR2032-1T2 EP1 6910000600 Ferrite Bead FSOH050RN	1 1			
C189 401000770 Ceramic DD104 CH 200J 50V C193 401000520 Ceramic DD108 B 472K 50V C194 401000520 Ceramic DD108 B 472K 50V C195 401000520 Ceramic DD108 B 472K 50V C195 401000520 Ceramic DD108 B 472K 50V C196 455000400 Tantalum DN 1C 2R2M C197 401000050 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD108 B 472K 50V RL1 6330000800 Relay G5A-237P DC12V BT1 302000020 Lithium Battery BR2032-1T2 EP1 6910000600 Ferrite Ferrite FSOH050RN				
C193 4010000520 Ceramic DD108 B 472K 50V C194 4010000520 Ceramic DD108 B 472K 50V C195 4010000520 Ceramic DD108 B 472K 50V C196 455000400 Tantalum DN 1C 2R2M C197 401000050 Ceramic DD108 B 472K 50V C198 401000050 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD108 B 472K 50V RL1 6330000800 Relay G5A-237P DC12V BT1 302000020 Lithium Battery BR2032-1T2 EP1 6910000600 Ferrite Bead FSOH050RN				
C194 4010000520 Ceramic DD108 B 472K 50V C195 4010000520 Ceramic DD108 B 472K 50V C196 455000400 Tantalum DN 1C 2R2M C197 401000050 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD108 B 472K 50V RL1 6330000800 Relay G5A-237P DC12V BT1 302000020 Lithium Battery BR2032-1T2 EP1 6910000600 Ferrite Bead FSOH050RN				
C195 4010000520 Ceramic DD108 B 472K 50V C196 4550000400 Tantalum DN 1C 2R2M C197 401000050 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD104 SL 030C 50V RL1 6330000800 Relay G5A-237P DC12V BT1 302000020 Lithium BR2032-1T2 EP1 6910000600 Ferrite FSOH050RN				
C196 4550000400 Tantalum DN 1C 2R2M C197 401000050 Ceramic DD104 SL 030C 50V C198 4010000520 Ceramic DD108 B 472K 50V RL1 6330000800 Relay G5A-237P DC12V BT1 302000020 Lithium Battery BR2032-1T2 EP1 6910000600 Ferrite Bead FSOH050RN				
C198 4010000520 Ceramic DD108 B 472K 50V RL1 6330000800 Relay G5A-237P DC12V BT1 302000020 Lithium Battery BR2032-1T2 EP1 6910000600 Ferrite Bead FSOH050RN				DN 1C 2R2M
RL16330000800RelayG5A-237P DC12VBT13020000020Lithium BatteryBR2032-1T2EP16910000600Ferrite BeadFSOH050RN				
BT1 3020000020 Lithium Battery BR2032-1T2 EP1 6910000600 Ferrite Bead FSOH050RN	C198	4010000520	Ceramic	DD108 B 472K 50V
EP1 6910000600 Ferrite Bead FSOH050RN	RL1	6330000800	Relay	G5A-237P DC12V
	BT1	3020000020	Lithium Battery	BR2032-1T2
EP2 0910024013 P.C. Board B 2299C (PLL)	EP1	6910000600	Ferrite Bead	FSOH050RN
	EP2		P.C. Board	B 2299C (PLL)

[DDS UNIT]

[PA UNIT]

REF. NO.	ORDER NO.	DESCRIPTION
IC1	1140000500	IC SC1051
IC2	1130002600	IC SC1052
IC3	1130002610	IC SC1053
IC4	1130002460	IC TC74HCT374F
IC5	1130002460	IC TC74HCT374F
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X1	6050003230	Crystal CR-180
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	asalir distas	er, en en server de la server de
L1	6200000040	Coll LQN 5N 331K
L2	6200000040	Coil LQN 5N 331K
L3	6200000040	Coil LQN 5N 331K
	S. 1997 - 1997 - 1	
R1	7030000740	Resistor MCR10EZHJ 1 MΩ (105)
R2	7030000360	Resistor MCR10EZHJ 680 Ω (681)
R3	7030000420	Resistor MCR10EZHJ 2.2 kQ (222)
R4	7410000320	Resistor Array GF 5096
R5	7030000500	Resistor MCR10EZHJ 10 kΩ (103)
R6	7030000500	Resistor MCR10EZHJ 10 kΩ (103)
R7	7030000500	Resistor MCR10EZHJ 10 kΩ (103)
	nin sa	
C1	4610000520	Trimmer TZB04N100BA006
C2	4030000950	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	4030000750	Ceramic GRM40 SL 121J 50PT
C12	4030000640	Ceramic GRM40 SL 120J 50PT
C13	4030000720	Ceramic GRM40 SL 680J 50PT
C14	4030001150	Ceramic GRM40 F 104Z 25PT
C15	4030001150	Ceramic GRM40 F 104Z 25PT
C16	4030001150	Ceramic GRM40 F 104Z 25PT
C17	4030001150	Ceramic GRM40 F 104Z 25PT
C18	4030002430	Ceramic GRM40 TH 220J 50PT
C19	4030001100	Ceramic GRM40 B 102K 50PT
C20	4030001100	Ceramic GRM40 B 102K 50PT
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EP1	0910022511	P.C. Board B 2203A (DDS)
		and the second
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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	14 Martin
D1	1790000010	Diode	MV5	
D2	1790000010	Diode	MV5	
D3	1790000010	Diode	MV5	
D4	1710000010	Diode	15CD11	
D5	1710000030	Diode	1S1555	1
D6	1710000030	Diode	1S1555	Vol. Col.
L1	6140001170	Coil	LR-142	

REF. NO.	ORDER NO.		DESCRIPTION	
L2	6910000670	Coil	BT01RN1-A61-001	
L3	6910000670	Coil	BT01RN1-A61-001	
L4	6140001300		LR-155	
L5	6140000610	Coil	LR-83	
L6	6140001310		LR-156	100
L7	6140002030 6180001230		LR-230 (SK-10M-15Y LAL 04NA 8R2K	120)
L8 L9	6180001230	Coil	LAL 04NA 4R7K	
L9 L10	6910000670	Coil	BT01RN1-A61-001	
L11	6910000670	Coil	BT01RN1-A61-001	
L12	6180000880		LAL 03NA 100K	
L13	6910000670	Coil	BT01RN1-A61-001	
L14	6910000670	Coil	BT01RN1-A61-001	
L15	6910000670	0011	BT01RN1-A61-001	
L16	6910000670		BT01RN1-A61-001	
L17	6180000900	Coil	LAL 03NA 101K	
L18	6180000900	Coil	LAL 03NA 101K	
R1	7010000310	Resistor	ELR25J 330 Ω	
R1 R2	7010001050	Resistor	R25J 150 Ω	
R3	7010000290		ELR25J 220 Ω	
R4	7010000330	Resistor	and a state of the second second second	
R5	7010004830	Resistor	R50XJ 4.7 Ω	
R6	7010004120		R20J 270 Ω	
R7	7010004730	Resistor	R50XJ 120 Ω	
R8	7310000680	Trimmer		1)
R9	7010000990	Resistor	R25J 47 Ω	
R10	7010000990	Resistor	R25J 47 Ω	
R11 R12	7010004730	Resistor Resistor	R50XJ 120 Ω R50XJ 120 Ω	
R12	7010004750	Resistor	R50XJ 10 Ω	
R14	7080000650	Resistor	RSS1P 3R3 Ω	
R15	7080000650		RSS1P 3R3 Q	
R16	7080000650	Resistor	RSS1P 3R3 Ω	
R17	7080000650	Resistor	RSS1P 3R3 Ω	
R18	7010004730	Resistor	R50XJ 120 Ω	
R19	7310000710	Trimmer	RH0651C13J1YA (10	2)
R20	7010004650	Resistor	R50XJ 10 Ω	
R21	7010004650	Resistor	R50XJ 10 Ω	
R22 R23	7080000650 7080000650	Resistor Resistor	RSS1P 3R3 Ω RSS1P 3R3 Ω	
R24	7070000250	Resistor	CRH200 R-02J 4.7 Ω	
R25	7010000370	Resistor	ELR25J 1 kΩ	. ()
R26	7100000510	Resistor	CP-5AJ 0.012 Ω	
R27	7010000370	Resistor	ELR25J 1 kΩ	
R28	7010001090		R25J 330 Ω	
R29	7010004150		R20J 470 Ω	
R30	7010004190	1	R20J 1 kΩ	
R31	7010003490		ELR20J 5.6 kΩ	
R32	7510000070		ERT-D2FHL503S	
R33 R34	7010003610		ELR20J 39 kΩ R20J 39 Ω	
R34	7010004020		N20J 38 12	
C1	4010000520		DD108 B 472K 50V	
C2			DD106 B 222K 50V	
C3	4040000250		UAT 08X 473M	
C4			UAT 08X 473M	
C5	4040000250		UAT 08X 473M	
C6	4040000250		UAT 08X 473M	
C7	4310000110		F2D 50V 472K	
C8	4310000110		F2D 50V 472K	
C9	4010000380		DD107 SL 221J 50V	
C10	4040000250		UAT 08X 473M	
C11			DD104 B 102K 50V GR44 CH 682K	
C12 C13	4030001370 4030001370		GR44 CH 682K	
C13 C14			UAT 08X 473M	
C14 C15			UAT 08X 473M	
C16			10 SS 47 µF	
C17	4030001340		GR44 CH 102K	1000
			DD108 SL 391J 50V	
C18	4010000420	Ocianiio		
C18 C19 C20	401000420	Ceramic	DD12 SL 221K 500V DM19C 681J5	

[PA UNIT]

REF. NO.	ORDER NO.		DESCRIPTION	e). Mari
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	
	1.6%		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	
	Weight and State		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)	
C37	4040000250	Barrier Layer	UAT 08X 473M	
C38	4010000520	Ceramic	DD108 B 472K 50V	
C39	4010000520	Ceramic	DD108 B 472K 50V	
C40	4030001340	Ceramic	GR44 CH 102K	
C41	4510002640	Electrolytic	25 SS 47 μF	
C42	4010000520	Ceramic	DD108 B 472K 50V	
F1	5210000130	Fuse	FGB 4A	
F2	5220000020	Holder	S-N5051	
F3	5220000020	Holder	S-N5051	
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S1	691000060	Thermostat	OHD-3 90M	
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SP1	2S10000040	Speaker	CO65K12I0810	
	and the second second			
	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -			
MF1	2710000160	Fan Motor	HMK2605-01-100	
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	Ser (1997) - Ser and Ser (1997)	jagen state state		
EP1	691000600	Ferrite Bead	FSOH050RN	
EP2	6910000600	Ferrite Bead	FSOH050RN	
EP3	691000600	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		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	171000030	Diode 1S1555	
D5	171000030	Diode 1S1555	
D6	1710000030	Diode 1S1555	
D7	1710000030	Diode 1S1555	
D8	1710000030	Diode 1S1555	
D9	1710000030	Diode 1S1555	
L1	6140001990	Coil LR-226	
L2	6140002000	Coil LB-227	
L2 L3	6140001780	Coil LR-214	

[FILTER UNIT]

REF. NO.	ORDER NO.	D	DESCRIPTION
L4	6140001790	Coil	LR-215
L5	6140001800	Coil	LR-216
L6	6140001800	Coil	LR-216
L7 L8	6140001810 6140001820	Coil	LR-217 LR-218
LO L9	6140002010	Coil	LR-228
L10	6140002020	Coil	LR-229
L11	6110001490	Coil	LA-196
L12	6110001500	Coil	LA-197 LAL 03NA 101K
L13 L14	6180000900 6180000900	Coil Coil	LAL 03NA 101K
L15	6180000900	Coil	LAL 03NA 101K
L16	6180000900	Coil	LAL 03NA 101K
L17	6180000900	Coil	LAL 03NA 101K
L18	6180000900	Coil	LAL 03NA 101K LAL 03NA 101K
L19 L20	6180000900 6180000900	Coil Coil	LAL 03NA 101K
L21	6180000880	Coil	LAL 03NA 100K
L22	6180000880	Coil	LAL 03NA 100K
L23	6180000880	Coil	LAL 03NA 100K
L24	6180000880 6180000900	Coil Coil	LAL 03NA 100K LAL 03NA 101K
L25 L26	6140001460	Coil	LR-170
L27	6140001340	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 R20J 10 kΩ
R5 R6	7010004320 7010003530	Resistor Resistor	ELR20J 10 kΩ
R7	7010003620	Resistor	ELR20J 47 kΩ
R8	7540000010	Absorber	DSA-301LA
R9	7010004390	Resistor	R20J 33 kΩ
C1	4320000290	Dip Mica	DM20C 152J5
C2	4010004040	Ceramic	DD10 SL 151K 500V
C3 C4	4010004100 4320000330	Ceramic Dip Mica	DD14 SL 331K 500V DM20C 272J5
C5	4010004030	Ceramic	DD10 SL 121K 500V
C6	4320000290	Dip Mica	DM20C 152J5
C7	4010004070	Ceramic	DD12 SL 221K 500V
C8	4010004050	Ceramic	DD12 SL 181K 500V DD10 SL 151K 500V
C9 C10	4010004040 4010004070	Ceramic Ceramic	DD10 SL 151K 500V DD12 SL 221K 500V
C11	4320000280	Dip Mica	DM20C 122J5
C12	4010003990	Ceramic	DD09 SL 680K 500V
C13	4010004070	Ceramic	DD12 SL 221K 500V
C14	4010004070	Ceramic Ceramic	DD12 SL 221K 500V DD12 SL 221K 500V
C15 C16	4010004070 4010004070	Ceramic	DD12 SL 221K 500V
C17	4010004050	Ceramic	DD12 SL 181K 500V
C18	4010004010	Ceramic	DD09 SL 101K 500V
C19	4010004070	Ceramic	DD12 SL 221K 500V
C20	4010004070	Ceramic Ceramic	DD12 SL 221K 500V DD12 SL 221K 500V
C21 C22	4010004070 4010003950	Ceramic	DD06 SL 330K 500V
C23	4010004070	Ceramic	DD12 SL 221K 500V
C24	4010004050	Ceramic	DD12 SL 181K 500V
C25	4010004030	Ceramic	DD10 SL 121K 500V
C26	4010004020	Ceramic Ceramic	DD09 SL 111K 500V DD10 SL 121K 500V
C28 C29	4010004030 4010004050	Ceramic	DD10 SL 121K 500V DD12 SL 181K 500V
C30	4010003960	Ceramic	DD06 SL 390K 500V
C31	4010004050	Ceramic	DD12 SL 181K 500V
C32	4010004010	Ceramic	DD09 SL 101K 500V
C33	4010003870	Ceramic	DD06 SL 120K 500V
C34 C35	4010004070 4010003950	Ceramic Ceramic	DD12 SL 221K 500V DD06 SL 330K 500V
C35 C36	4010003950	Ceramic	DD09 SL 101K 500V
C37	4010003990	Ceramic	DD09 SL 680K 500V
C38	4010003960	Ceramic	DD06 SL 390K 500V
C39	4010004040	Ceramic	DD10 SL 151K 500V

[FILTER UNIT]

[PB UNIT]

REF. NO.	ORDER NO.		DESCRIPTION	
C40	4010003870	Ceramic	DD06 SL 120K 500)V
C41	4010003990	Ceramic	DD09 SL 680K 500	V
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 50\	1
C49	4010000520	Ceramic	DD108 B 472K 50\	/ 14.
C50	4010000520	Ceramic	DD108 B 472K 50\	/
C51	4010000520	Ceramic	DD108 B 472K 50\	/ 6.6
C52	4010000520	Ceramic	DD108 B 472K 50\	/ ¹
C53	4010000520	Ceramic	DD108 B 472K 50\	/ 1.6 - 1
C54	4610001120	Trimmer	CVSSC2001	
C55	4010000410	Ceramic	DD107 SL 331J 50	V
C56	4010000410	Ceramic	DD107 SL 331J 50	V
C57	4010000430	Ceramic	DD109 SL 471J 50	V
C58	4010000430	Ceramic	DD109 SL 471J 50	V
C59	4040000250	Barrier Layer	UAT 08X 473M	
C60	4010000330	Ceramic	DD105 SL 101J 50	V
C61	4010000120	Ceramic	DD104 SL 100D 50)V
C62	4010000330	Ceramic	DD105 SL 101J 50	V
RL1	6330000180	Relay	MZ-12HG	
RL2	6330000180	Relay	MZ-12HG MZ-12HG	
RL3	6330000180	Relay	MZ-12HG MZ-12HG	
RL4	6330000180	Relay	MZ-12HG MZ-12HG	
RL5	6330000180	Relay	MZ-12HG	
RL6	6330000180	Relay	MZ-12HG 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	
BL13	6330000720	Relay	DS1-M-DC12V (AG2	013
11610	000000720		DOT MEDOTES (AUZ	.010)
EP1	0910022833	P.C. Board	B 2207C (FILTER)	
EP2	6910000630	Ferrite Bead	FSOH070RN	
I .		1		

[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	
	BC 77.0			
	-			
D1	1710000050	Diode	1SS53	
D2	1790000070	Diode	1SS237	
D3	1790000070	Diode	1SS237	• 20
D4	1710000300	Diode	M1402	
D5	1710000060	Diode	1SS55	
D6	1710000060	Diode	1SS55	
D7	1710000060	Diode	1SS55	
D8	1710000050	Diode	18853	
D9	171000030	Diode	1S1555	
D10	1710000050	Diode	1SS53	
D11	1730000160	Zener	RD7.5E B2	
	in the second second			
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		LW-19
L6	6170000180		LW-19
L7	6110001640		LA-247
L8	6110001650		LA-248
L9	6170000180		LW-19 LA-248
L10 L12	6110001650 6180000880		LA-248 LAL 03NA 100K
L12	6180000880	Coil	LAL 03NA 100K
1 1.14	010000000		
	6866 - 1.5k 3		
R1	7010004240		R20J 2.7 kΩ
R2	7010003240		ELR20J 47 Ω
R3	7010003160		ELR20J 10 Ω
R5	7010003330		ELR20J 270 Ω
R6	7010000960		R25J 27 Ω
R7	7010004210		N200 1.0 KM
R8 R9	7010004100		R20J 180 Ω R20J 4.7 kΩ
R9 R11	7010004270		R20J 4.7 kΩ
R13	7010004120	Resistor	R20J 270 Ω
R14	7540000010		DSA-301LA
R15	7010003120	Resistor	ELR20J 4.7 Ω
R18	7010003480	Resistor	ELR20J 4.7 kΩ
R19	7010003610	Resistor	ELR20J 39 kΩ
		1. A	
	0.53	a da ser ser	
C1	4010000260	Ceramic	DD104 SL 470J 50V
C3	4040000190	Barrier Layer	UAT 05X 103K
C4	4010000520	Ceramic	DD108 B 472K 50V
C5	4040000190	Barrier Layer	UAT 05X 103K
C6	4010000520	Ceramic	DD108 B 472K 50V
C7	4040000190	Barrier Layer	UAT 05X 103K
C8	4010000520	Ceramic	DD108 B 472K 50V
C9 C10	4010000340	Ceramic	DD105 SL 121J 50V DD105 SL 121J 50V
C10	4010000340	Ceramic Ceramic	DD105 SL 121J 50V
C13	4040000190	Barrier Laver	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	DN 1V 100M
C20	4010000520	Ceramic	DD108 B 472K 50V
C21	4510002020	Electrolytic	25 MS7 47 μF
C22	4010000520		DD108 B 472K 50V
C23	4610001120		CVSSC2001
C24	4010000330		DD105 SL 101J 50V
C25	4010000350	1	DD106 SL 151J 50V
C26	4010000380	Ceramic	DD107 SL 221J 50V
C27 C28	4010000380	Ceramic Barrier Layer	DD107 SL 221J 50V UAT 08X 473M
C28 C29	4040000250 4010003960		DD06 SL 390K 500V
C29 C30	4010003960	Ceramic	DD06 SL 390K 500V DD06 SL 200K 500V
C31	4010003900	Ceramic	DD08 SL 200K 500V DD09 SL 820K 500V
C32	4010003870	Ceramic	DD06 SL 120K 500V
C33	4010003970	Ceramic	DD07 SL 470K 500V
C34	4010000520	Ceramic	DD108 B 472K 50V
C35	4010003970	Ceramic	DD07 SL 470K 500V
C36	4010003800	Ceramic	DD06 SL 030C 500V
C37	4010003970		DD07 SL 470K 500V
C44	4040000150		UAT 05X 472K
C45	4020000250		UP125 X 472M
C46	404000250		UAT 08X 473M
C47	4040000190		UAT 05X 103K
C48	4040000250		UAT 08X 473M
C49	4010003930		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.	D	ESCRIPTION	
EP2	-	6910000970	Ferrite Bead	DL 20P 2.6-3-1.2H	
EP3	17	6910000970	Ferrite Bead	DL 20P 2.6-3-1.2H	
EP4		0910022883	P.C. Board	B 2206C (PB)	
EP6		6910000630	Ferrite Bead	FSOH070RN	
		een aya a yaa			

[BPF UNIT]

REF. NO.	ORDER NO.	ſ	DESCRIPTION
Q1	1560000130	FET	2SK125
D1	1790000070	Diode	1SS237
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 4020000870 4020000850 4010000250 4010000150 402000860 4040000150	Cylinder Cylinder Cylinder Ceramic 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	μΡC577ΗΑ
IC3	1110000250	IC	BA401
IC4	1110001320	IC	μ ΡC1037HA
IC5	1110000330	IC	M5218L
Q1	1530000591	Transistor	2SC2785 EL
Q2	1590000340	Transistor	RN1202
Q3	1590000340	Transistor	RN1202
Q4	1530000110	Transistor	2SC2458-GR
Q5	1590000340	Transistor	RN1202
Q6	1590000360	Transistor	RN2202
Q7	1590000340	Transistor	RN1202
Q8	1590000340	Transistor	RN1202
Q9	1590000360	Transistor	RN2202
Q10	1590000340	Transistor	RN1202
Q11	1530000110	Transistor	2SC2458-GR
Q12	1590000360	Transistor	RN2202
Q13	1530000110	Transistor	2SC2458-GR

[AM·FM UNIT]

	-		
REF. NO.	ORDER NO.	D	ESCRIPTION
Q14	1590000340	Transistor	RN1202
	n Agencia de la composición Professiones de la composición de la co		
D1	1710000050	Diode	1SS53
D2	1730000100	Zener	RD5.1E B2
D3	1710000040	Diode	1S953
D4	1710000040	Diode	1S953
D8	1720000060	Varicap	1SV50(1)E
D9	1710000050	Diode	1SS53
D10	1710000160	Diode	188133
D11	1710000160	Diode	1SS133
D12	1710000160	Diode	1SS133
D13	1710000160	Diode	155133
F11	2020000120	Ceramic Filter	CFW455E
X1	6050001340	Crystal	CR- 1
X2	6070000010	Discriminator	CDB455C7A
Х3	6050000280	Crystal	HC-12/U 9.0105
L1	6180001710	Coil	LAL 03NA 561K
L2	6180001680	Coil	LAL 03NA 151K
L3	6150001200	Coil	LS-133
L4	6180000950	Coil	LAL 03NA 150K
L5	6180000880	Coil	LAL 03NA 100K
L6	6180000880	Coil	LAL 03NA 100K
L7	6180000900	Coil	LAL 03NA 101K
L8	6180000900	Coil	LAL 03NA 101K
L9	6180000960	Coil	LAL 03NA 102K
R1	7010003400	Resistor	ELR20J 1 kΩ
R2	7010001030	Resistor	R25J 100 Ω
R3	7010003550	Resistor	ELR20J 15 k Ω
R4	7010003420	Resistor	ELR20J 1.5 k Ω
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
R10	7510000090	Thermistor	ERT-D2FGL202S
R11	7010003360	Resistor	ELR20J 470 Ω
R12	7010004230	Resistor	R20J 2.2 kΩ
R13	7010003400	Resistor	ELR20J 1 kΩ
R14	7310000760	Trimmer	RH0651CJ4J01A (223)
R15	7010004230	Resistor	R20J 2.2 kΩ
R16	7010003280	Resistor	ELR20J 100 Ω
R17	7510000120	Thermistor	ERT-D2FGL332S
R18	7010003510	Resistor	ELR20J 6.8 kΩ
R19	7010003580	Resistor	ELR20J 22 kΩ
R20	7010003740	Resistor	ELR20J 470 kΩ ELR20J 4.7 kΩ
R21	7010003480	Resistor	
R22	7010003510	Resistor	ELR20J 6.8 kΩ R25J 22 kΩ
R23	7010001320	Resistor	
R24	7010004370	Resistor	R20J 22 kΩ ELR20J 1.5 kΩ
R25	7010003420	Resistor	RH0651C13J1YA (102)
R26	7010003420	Resistor	ELR20J 1.5 kΩ
R27	7010003420	Resistor	R20J 1 k Ω
R28 R29	7010004190	Resistor	R20J 1.5 MΩ
R30	7010003400	Resistor	ELR20J 1 k Ω
R31	7010003400	Resistor	ELR20J 1 MΩ
R32	7010004190	Resistor	R20J 1 kΩ
R33	7010003410	Resistor	ELR20J 1.2 k Ω
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
R41	7310000740	Trimmer	RH0651CS3J2KA (472)
	1	L	

[AM·FM UNIT]

REF. NO.	ORDER NO.	x	DESCRIPTION	REF. NO.	ORDER NO.		DESCRIPTION	kana Kana
R42 R43	7010004230 7010004270	Resistor Resistor	R20J 2.2 kΩ R20J 4.7 kΩ	C56 C57	4010000220 4010004840	Ceramic Ceramic	DD104 SL 330J 5 DD305 F 104Z 12	
R44	7310000750	Trimmer	RH0651C14J2WA (103)	C58	4040000190	Barrier Layer	UAT 05X 103K	
R45	7010003530	Resistor	ELR20J 10 kΩ		and the second	i i sedi po		
R46 R47	7010003470 7310000750	Resistor Trimmer	ELR20J 3.9 kΩ	EP1	0910019702	P.C. Board	B 1880B (AM • FM	
R48	7010004310	Resistor	RH0651C14J2WA (103) R20J 8.2 kΩ	CP1	0910019702	P.C. Board	B 1000B (ANI + FIN	1)
R49	7010004370	Resistor	R20J 22 kΩ					
R50	7010003810	Resistor	ELR20J 2.2 MΩ					
R51	7010003550	Resistor	ELR20J 15 kΩ					
R52	7010003400	Resistor	ELR20J 1 kΩ					
R53	7310000740	Trimmer	RH0651CS3J2KA (472)	1				
R54	7010003360	Resistor	ELR20J 470 Ω		en di Andre da			
R55 R56	7010003360 7010003490	Resistor	ELR20J 470 Ω					
R57	7010003490	Resistor Resistor	ELR20J 5.6 kΩ R20J 390 kΩ					
R58	7010004220	Resistor	R20J 4.7 kΩ					
R59	7010004190	Resistor	R20J 1 kΩ					
C1	4010000260	Ceramic	DD104 SL 470J 50V		an e station	1 		
C2	4010000520	Ceramic	DD108 B 472K 50V		19 ² - 19	· · · · · ·		
C3	4010000810	Ceramic	DD105 CH 300J 50V		atter 1			
C4 C5	4010000370 4040000260	Ceramic Barrier Layer	DD106 SL 201J 50V UZE 08X 104M		N			
C6	4040000260	Barrier Layer	UZE 08X 104M			1°		
C7	4010000320	Ceramic	DD104 SL 820J 50V					
C8	4040000260	Barrier Layer	UZE 08X 104M		in and the second se	aller in the second		
C9	4510001120	Electrolytic	25 MS7 4R7 μF		1	1		
C10	4010000180	Ceramic	DD104 SL 220J 50V		10 A			
C11	4040000250	Barrier Layer	UAT 08X 473M		A.	1		
C12	4040000460	Barrier Layer	RAU 08SA 821K			· · · · · · · · · · · · · · · · · · ·		
C13 C14	4040000250	Barrier Layer	UAT 08X 473M					
C14 C15	4040000250	Barrier Layer Barrier Layer	UAT 08X 473M UAT 08X 473M			x ·		
C16	4040000190	Barrier Layer	UAT 05X 103K					
C17	4040000260	Barrier Layer	UZE 08X 104M		1.12	s		
C18	4510000960	Electrolytic	10 MS9 47 μF		and a second sec	- 3. 		
C19	4310000110	Mylar	F2D 50V 472K			an an Fr		
C20	4310000110	Mylar	F2D 50V 472K		in a start in the start is	al da.		
C21	4040000250	Barrier Layer	UAT 08X 473M		1			
C22 C23	4010000520 4010000520	Ceramic Ceramic	DD108 B 472K 50V DD108 B 472K 50V		1	- 53 -		
C23	4010000320	Ceramic	DD108 B 472K 50V DD104 SL 120J 50V	9				
C25	4010000090	Ceramic	DD104 SL 070D 50V			e de la companya de la compan		
C26	4010000940	Ceramic	DD107 CH 101J 50V		(*************************************			
C27	4010000940	Ceramic	DD107 CH 101J 50V	5				
C28	4010000520	Ceramic	DD108 B 472K 50V					
C29	4040000150	Barrier Layer	UAT 05X 472K					
C30	4010000520	Ceramic	DD108 B 472K 50V					
C31 C32	4010000460	Ceramic Barrier Laver	DD104 B 471K 50V					
C32 C33	4040000250	Barrier Layer	UAT 08X 473M DD108 B 472K 50V					
C34	4010000520	Ceramic	DD108 B 472K 50V					
C35	4010000520	Ceramic	DD108 B 472K 50V					
C36	4010000520	Ceramic	DD108 B 472K 50V			L. N. M.		
C37	4510001150	Electrolytic	50 MS7 R47 μF					
C38	4310000050	Mylar	F2D 50V 222K		1.353		1	
C39	4510001100	Electrolytic	16 MS7 10 μF		. <u> </u>			
C40 C41	4510001100	Electrolytic	16 MS7 10 µF			A		
C41 C42	4510001100 401000500	Electrolytic Ceramic	16 MS7 10 μF DD104 B 102K 50V					
C42 C43	4010000500	Barrier Layer	UAT 04X 222K					
C44	4010000340	Ceramic	DD105 SL 121J 50V		i and and			
C45	4510001140	Electrolytic	50 MS7 R22 µF		t the state			
C46	4510001760	Electrolytic	25 RBP 4.7 μF		14. 14. 14. 14. 14. 14. 14.			
C47	4510001970	Electrolytic	50 MS7 0R1 µF		in is			
C48	4510001160	Electrolytic	50 MS7 1 µF		11 - 12 A			
C49	4010000330	Ceramic	DD105 SL 101J 50V		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -			
C50	4510001180	Electrolytic	50 MS7 3R3 μF					
C51	4510001770	Electrolytic	16 RBP 10 μF		1			
C52 C53	4010000520 4020000670	Ceramic Cylinder	DD108 B 472K 50V UP050 SL 470J					
C53 C54	4010000500	Ceramic	DD104 B 102K 50V					
	4040000090	Barrier Layer	UAT 04X 152K					
C55	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							

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	ance : 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		Output level : 1~500 mV
	Frequency accuracy Sensitivity	 t ± 1 ppm or better t 100 mV or better 	Attenuator	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 : $1.8 \sim 50 \text{ MHz}$ Measuring range : $0 \sim \pm 10 \text{ kHz}$
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)		

CONNECTION

Attenuator Spectrum 40 or 50 dB Standard signal analyzer FM generator (SSG) deviation meter RF power meter 200 W/50 Ω to the Straight or to [KEY] antenna **CAUTION:** electronic keyer connector DO NOT connect the to [EXT SP] [50 MHz ANT] signal generator while AC transmitting. milli-voltmeter [HF ANT] 0 to DC power 0 socket Speaker IC-726 DC power supply 13.8 V/30 A 日日 Е to [MIC] • [MIC] connector (Front panel view) -Pin 1 MIC INPUT-Audio generator Pin 7 GND-(microphone ground) T PTT 0 (8)

CW: Clockwise CCW: Counterclockwise



6-2 PLL ADJUSTMENT

A [3] 111/2 24	8.1°°	AD HICTMENT CONDITIONS	N	IEASUREMENT	VALUE		STMENT
ADJUSTME	I VI	ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE Alona de Conta	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	
REFERENCE	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 f	from P4 a	I Ind re-plug P4.			
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		Alternation of the second s	Approx. 2.0 V DC		Verify
	3	After adjustment, fix the L30 in place v	l with paral	fin.		· · · · · · · · · · · · · · · · · · ·	t - Marin Janggin Salaman Salaman
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	n da Antonio	C46
	3	Displayed frequency: 21.99999 MHz		Υ 	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
50 MHz 1st LO OUTPUT LEVEL	1	 Displayed frequency: 53.00000 MHz Mode : USB Terminate P5 with a 50 Ω resistor. Receiving 	PLL	Connect the RF voltmeter to P5.	Maximum level (More than +3 dBm)	PLL	Adjust in sequence L52, L53 L54, L58 L59, L60 L61
	2	Shift the frequency between 50.00000 MHz and 54.00000 MHz.			Adjust the output level within +2 dBm.		Adjust in sequence L58, L59 L60, L61
				a a construction and a construction of the second			

PLL ADJUSTMENT (CONTINUED)

ADJUSTME	INT	ADJUSTMENT CONDITIONS	1	IEASUREMENT	VALUE	ADJUSTMENT POINT	
			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 resiston	r from P4	and re-plug P4.			
RIT	1	Displayed frequency: 14.10000 MHz Mode : USB Attach the SSG to the [HF ANT]	Top Cover	Speaker	Preset to center.	Front panel	[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.

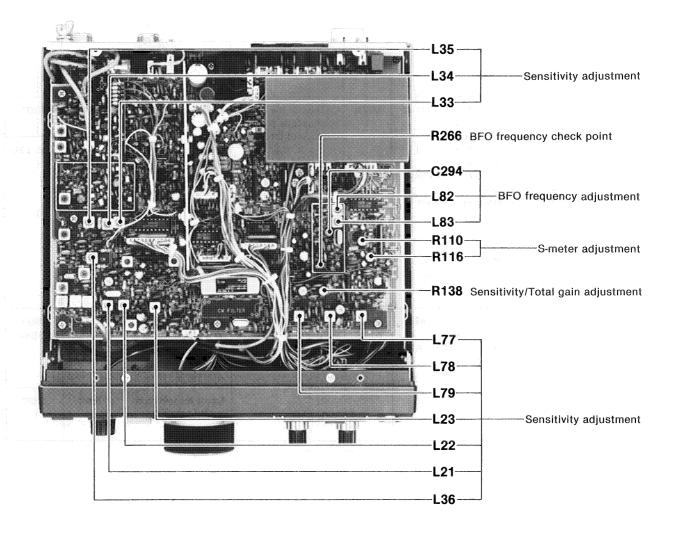
• PLL AND DDS UNITS L52 -L53 L54 L58 50 MHz 1st LO output level L59 adjustment -L60 -L61 P5 HF/50 MHz 1st LO output level check point R77 1st LO lock voltage check point C35-Ŷ C46 1st LO lock voltage C59 6 adjustment C70--DDS UNIT R70 RIT adjustment R133 DDS loop check point -L30 DDS loop adjustment PLL UNIT-P4 Reference frequency check point C1 DDS clock adjustment HF 2nd LO output level check point L39 IC4, pin 11 or IC5, pin 11 -L38 Reference frequency Ð adjustment DDS clock check point -L35 C134 Reference frequency presetting

6-3 RECEIVER ADJUSTMENT

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ADJUSTMENT			MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSIME	N I 1998	ADJUSTMENT CONDITIONS	UNIT	LOCATION		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. 		en e	9.01060 MHz		L83
	3	Mode : LSB Receiving		an agus an ann ann an an an an an ann an 1913 - La chairte ann an ann an ann ann ann ann ann ann	9.01000 MHz	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1. 1 . 1.82 - 10 11 11.11
	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 [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 	Rear	Connect the AC milli- voltmeter to the [EXT SP] jack with an 8 Ω load.	Preset to max. CW. Maximum audio output level	MAIN	R138 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	1	 Displayed frequency: 14.10000 MHz Mode : USB [PRE] switch : OFF Attach the SSG to the [HF ANT] connector and set as: Level : 50 µV* (-73 dBm) Modulation: OFF Receiving 	Front panel	S-METER	\$9	MAIN	R116
	2	• Attact the SSG to the [HF ANT] connector and set as: Level : 50 mV* (-13 dBm)			S9+60 dB		R110
	3	Repeat step 1 and 2 several times.					

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



RECEIVER ADJUSTMENT (CONTINUED)

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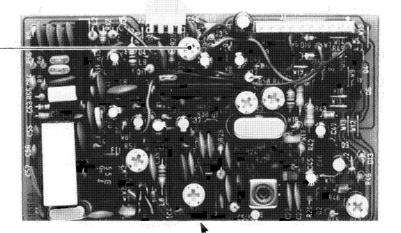
ADJUSTMI	ENT	ADJUSTMENT CONDITIONS	N	AEASUREMENT	VALUE		STMENT DINT	
			UNIT	LOCATION	VALUE	UNIT	ADJUST	
FM S-METER	1	 Displayed frequency: 53.00000 MHz Mode : FM Attach the SSG to the [50 MHz ANT] connector and set as: Level : 3.2 mV* (-37 dBm) Modulation: 1 kHz Deviation : ±3.5 kHz Receiving 	Front panel	S-METER	S9+60 dB	AM • FM	R14	
NOISE BLANKER	1	Displayed frequency: 14.10000 MHz Mode : USB [NB] switch : ON	MAIN	Connector the oscilloscope to the cathode of D13.	Preset to max. CW.	MAIN	R293	
	2	 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 			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 Modulation : OFF 	Rear panel	Connect the AC milli- voltmeter to the [EXT SP] jack with a speaker (8 Ω).	Set SSG's output level so that the signal is audible through the speaker.		SSG's output	
					Adjust for minimum speaker output.			

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

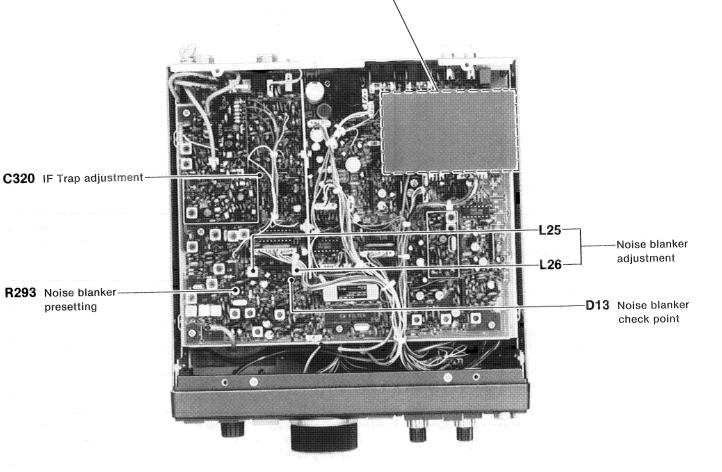
• AM • FM UNIT

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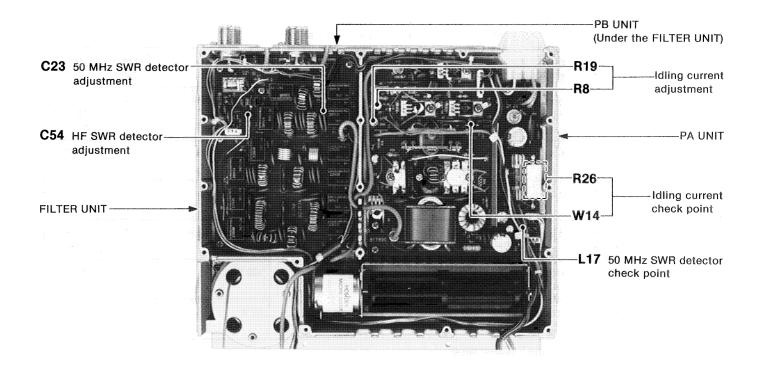
• MAIN UNIT



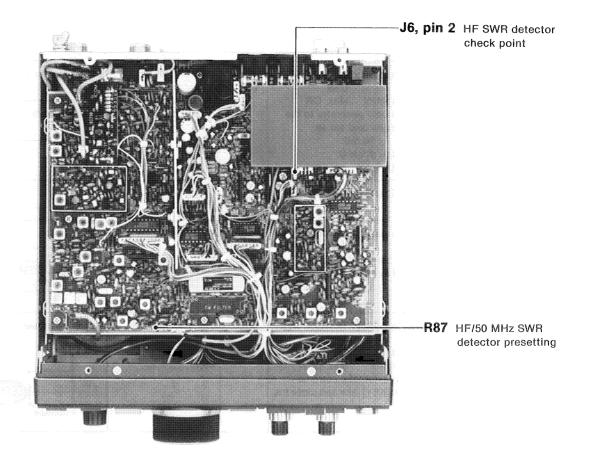
6-4 TRANSMITTER ADJUSTMENT

	-	AD HIGTHENT CONDITIONS		EASUREMENT			USTMENT POINT	
ADJUSTME		ADJUSTMENT CONDITIONS	UNIT	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	PA	R8	
For final transistors	2		PA	Unsolder R26 and connect the ammeter to the unsoldering points.	300 mA	PA	R19	
				ammeter				
		After adjustment, re-solder W14 and R	126.			an an the state	n n. Konse Liyki	
HF SWR DETECTOR	1	Displayed frequency: 14.10000 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 [HF ANT] connector.	100 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 	MAIN	Connect the DC voltmeter to J6, pin 2.	Minimum	FILTER	C54	
	3	After adjustment, remove the jumper v	vire from	I R87.				
50 MHz SWR DETECTOR	1	Mode : USB panel power meter to the [50 MHz ANT] connect the jumper wire between R87 (front side) and a ground.	Front panel	[MIC] control				
	 Attach the audio generator to th	Level : 10 mV Modulation : 1.5 kHz	FILTER	Connect the DC voltmeter to L17.	Minimum	PB	C23	
		• mansmitting						

• PA, FILTER AND PB UNITS



• MAIN UNIT



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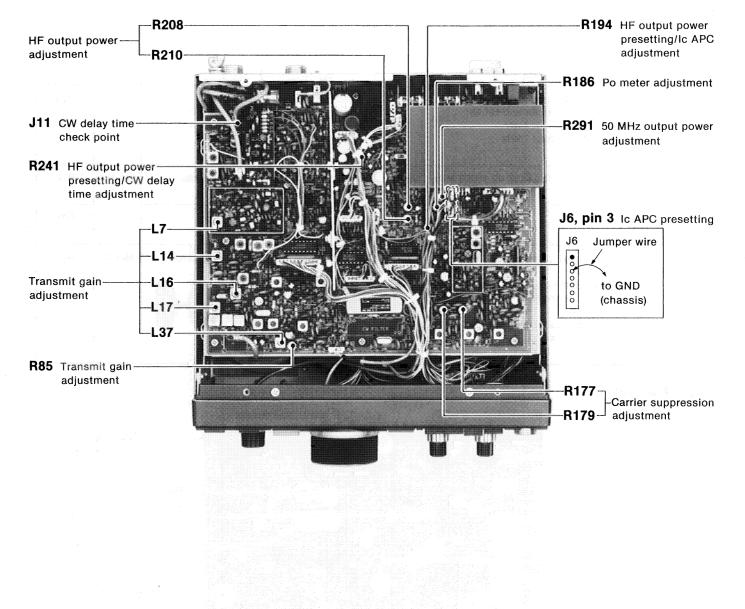
TRANSMITTER ADJUSTMENT (CONTINUED)

ADJUSTME	NT	ADJUSTMENT CONDITIONS	N	EASUREMENT	VALUE		STMENT DINT
ADJUSTME	. NI 1	ADJUSTMENT CONDITIONS	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	Preset to max. CW.	MAIN	R85
		Attach the audio generator to the [MIC] connector and set as: Level : 1 mV		antenna connector.	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	C multiple	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 CW	Rear panel	Connect the RF power meter to the	Preset to max. CCW.	MAIN	R194, R241
	2	 [RF PWR] control : Max. CW Connect a key to the [KEY] jack and key down. 		[HF ANT] connector.	100 W		R210
	3	• [RF PWR] control : Max. CCW			10 W		R208
	4	Repeat step 2 and 3 several times.					
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. 	: CW panel ammeter between : Max. CW the DC power supply r wire between round.	MAIN	R194		
	2	After adjustment, remove the jumper w	vire from	J6, pin 3.	I		
50 MHz OUTPUT POWER	1	Displayed frequency: 50.00000 MHz Mode : USB [RF PWR] control : Max. CW	Rear panel	Connect the RF power meter to the	Preset to max. CCW.	MAIN	R291
POWER	2	Attach the audio generator to the [MIC] connector and set as: Level : 10 mV		[50 MHz ANT] connector.	Maximum level	Front panel	[MIC] control
	3	Modulation: 1.5 kHz • Transmitting			10 W	MAIN	R291
	4	Repeat step 2 and 3 several times.					
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	
	n Seet		UNIT	LOCATION	VALUE	UNIT	ADJUST
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



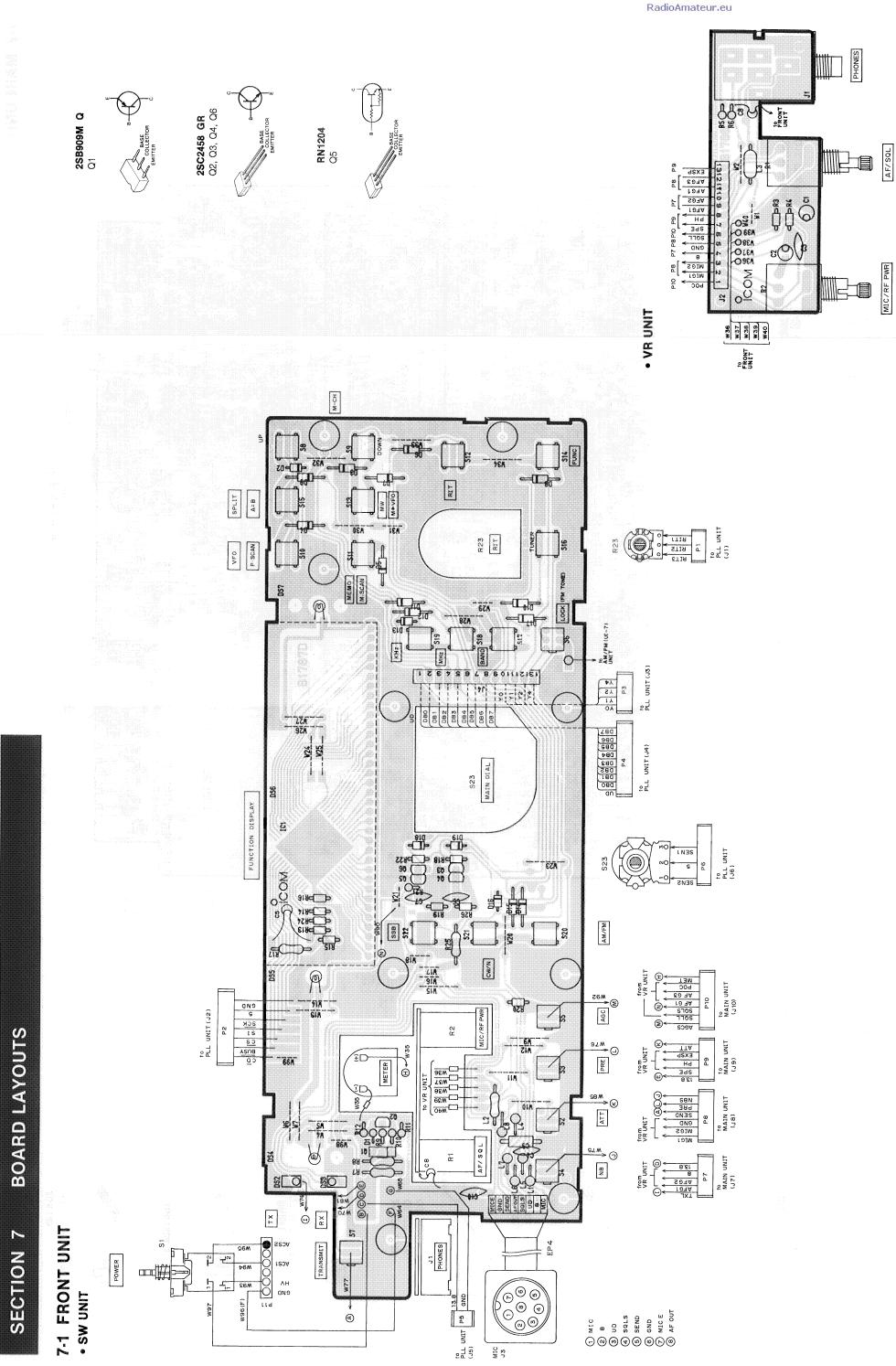
TRANSMITTER ADJUSTMENT (CONTINUED)

ADJUSTMENT		ADJUSTMENT CONDITIONS	MEASUREMENT			ADJUSTMENT POINT	
ADJOSTINE	. 1 ¥ 1 . 21 − 5.			LOCATION	DN		ADJUST
OSC FREQUENCY	1	Displayed frequency: 29.10000 MHz Mode FM Transmitting	AM • FM	Connect the frequency counter to the cathode of D1.	Preset to max. CW.	AM•FM	R26
	2				Preset to max. CCW.		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

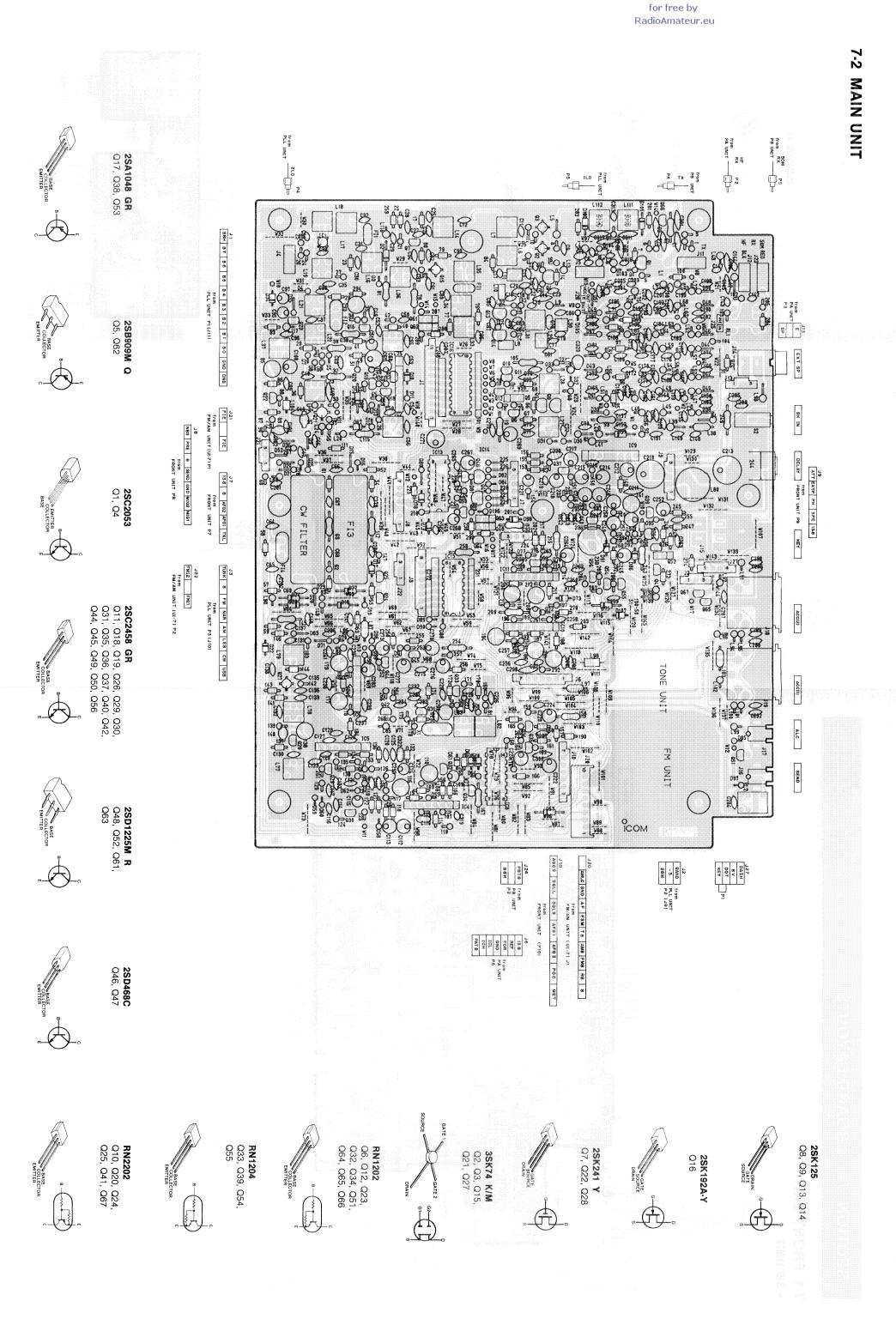
R26 OSC frequency presetting/Carrier level adjustment

D1 OSC frequency/Carrierlevel/AM modulation/ check point R41 AM modulation adjustment R41 FM deviation adjustment L3 OSC frequency adjustment R47 OSC frequency presetting/Carrier level adjustment

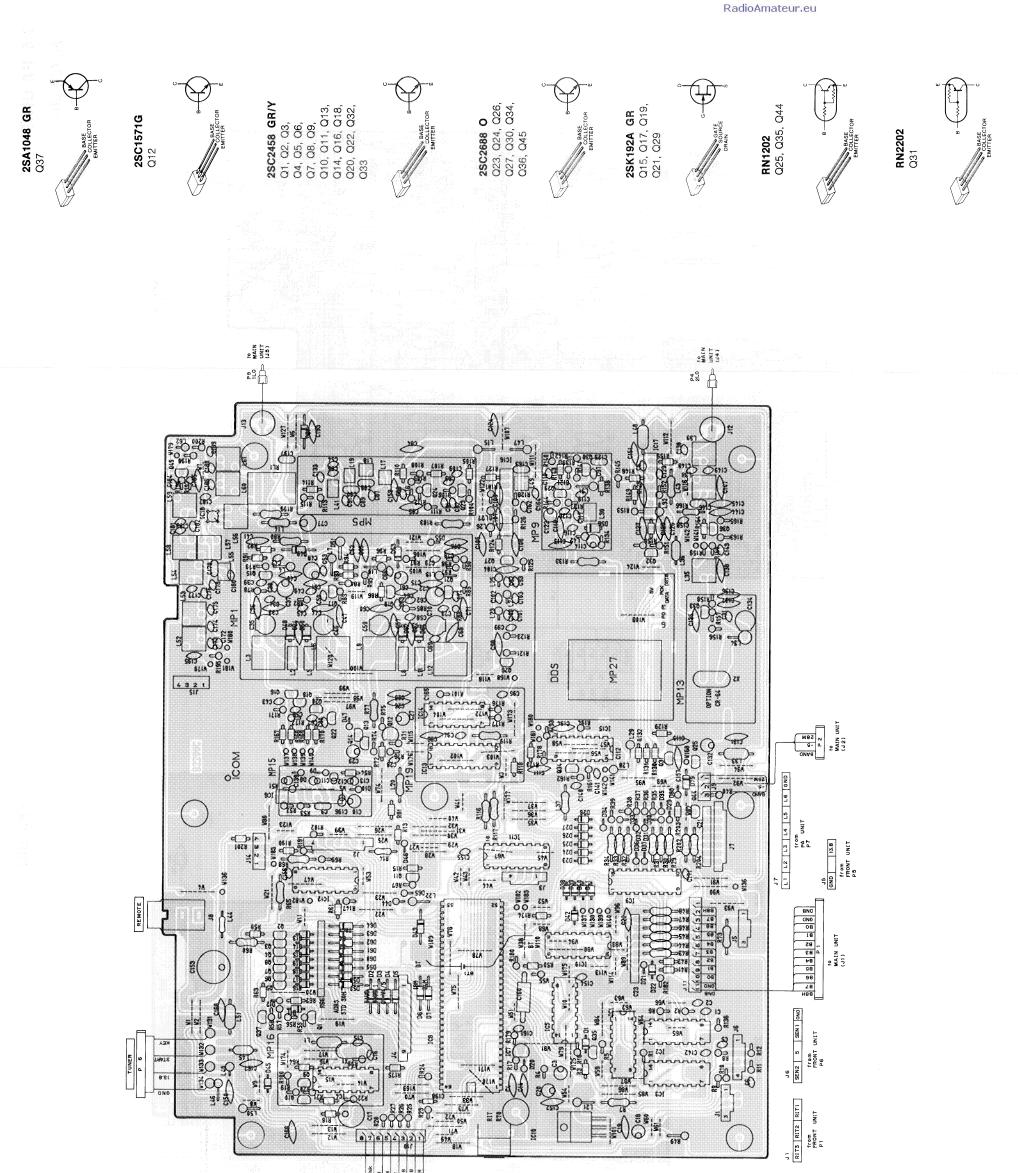


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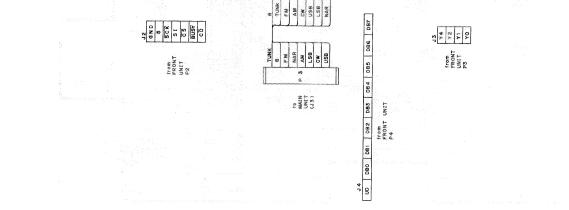


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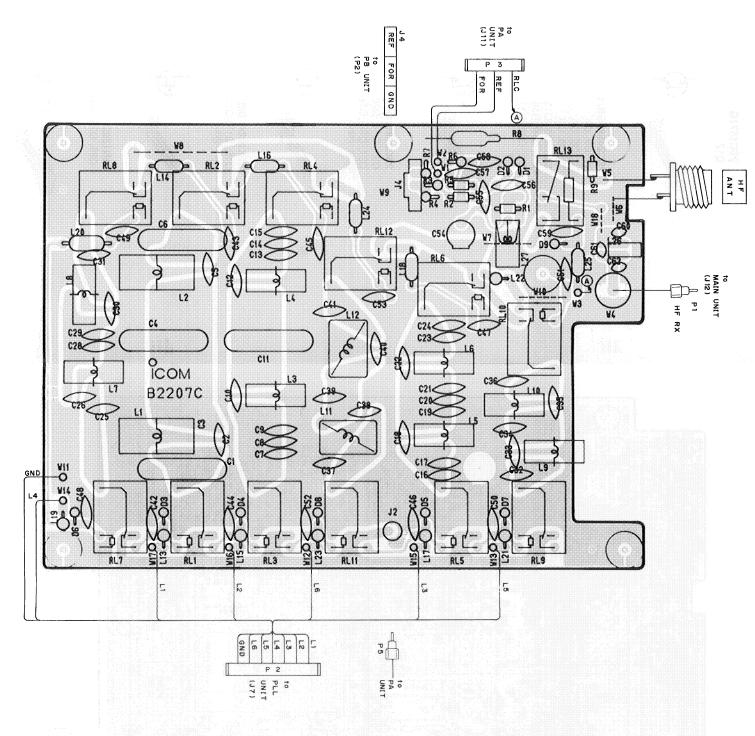


7-3 PLL UNIT

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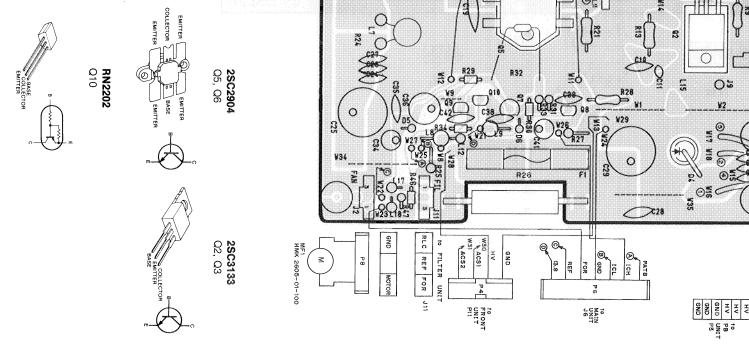


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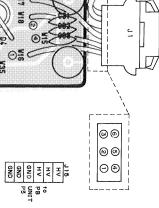
7-4 PA UNIT

• FILTER UNIT



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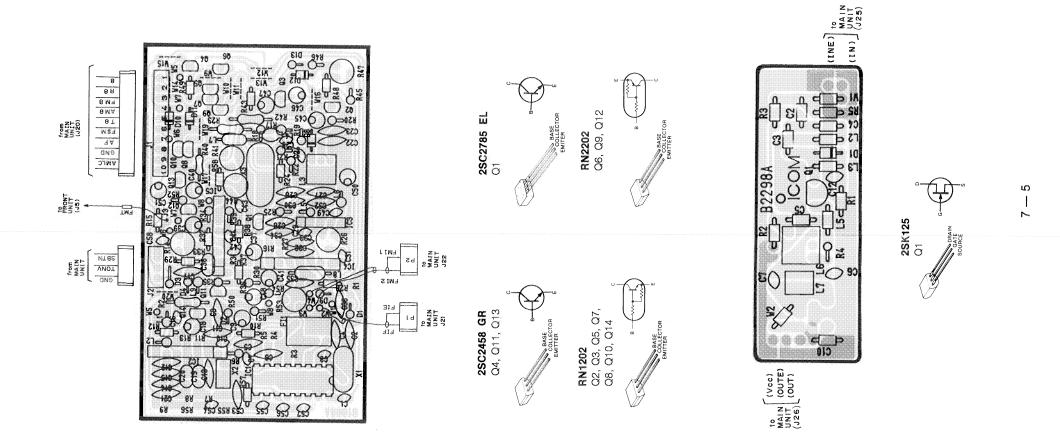
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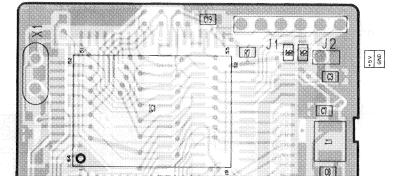
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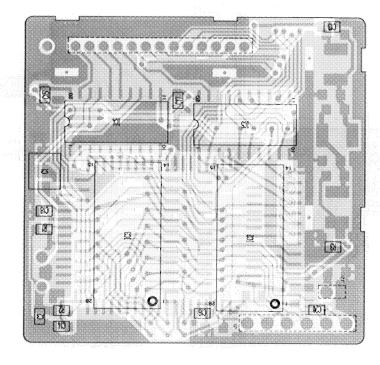
DC POWER SOCKET

OCA LEA



• BPF UNIT

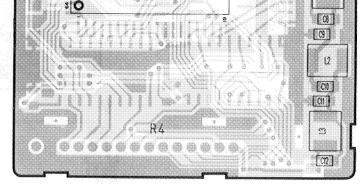




7-5 DDS, AM · FM AND BPF UNITS

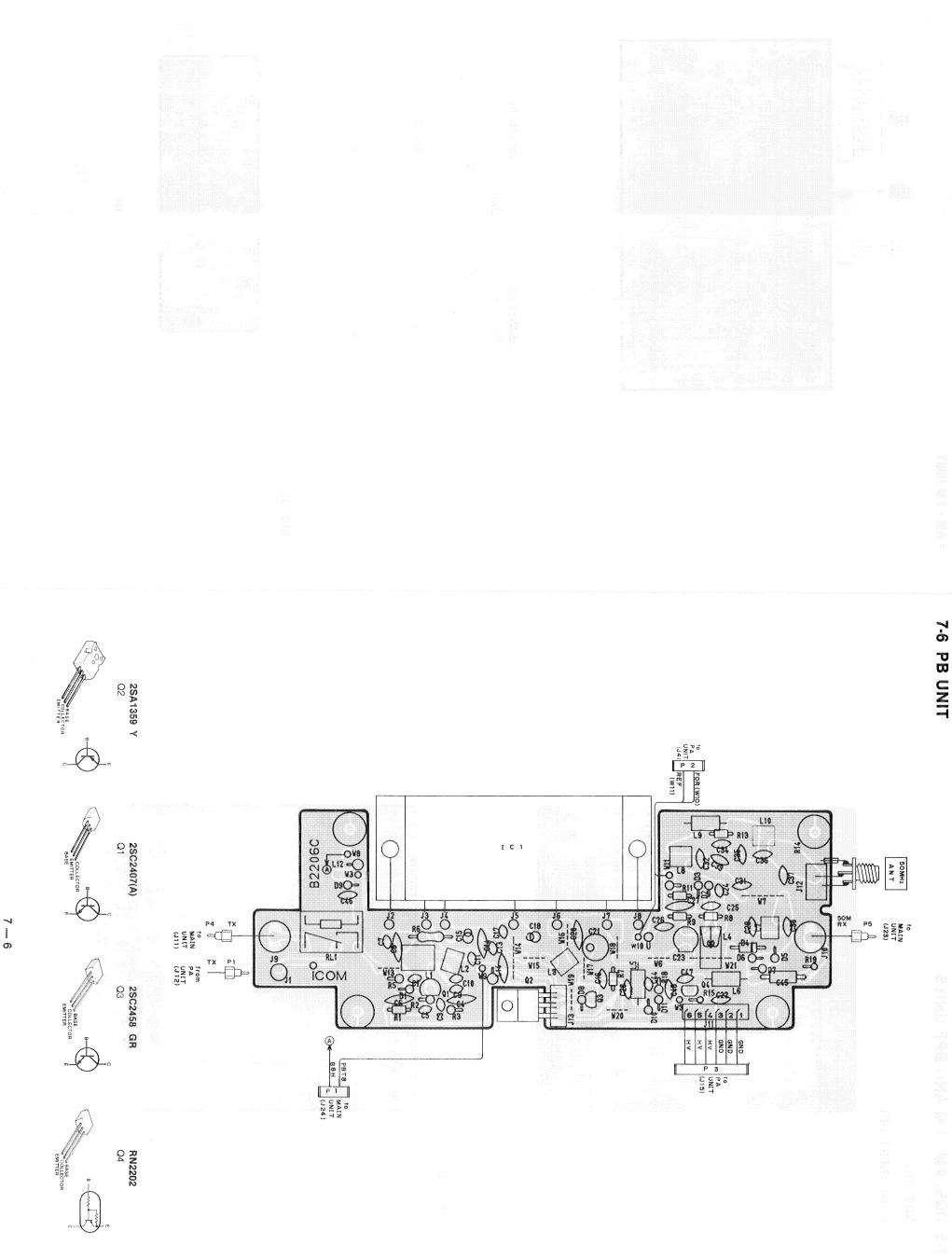
DDS UNIT
 COMPONENT SIDE

FOIL SIDE



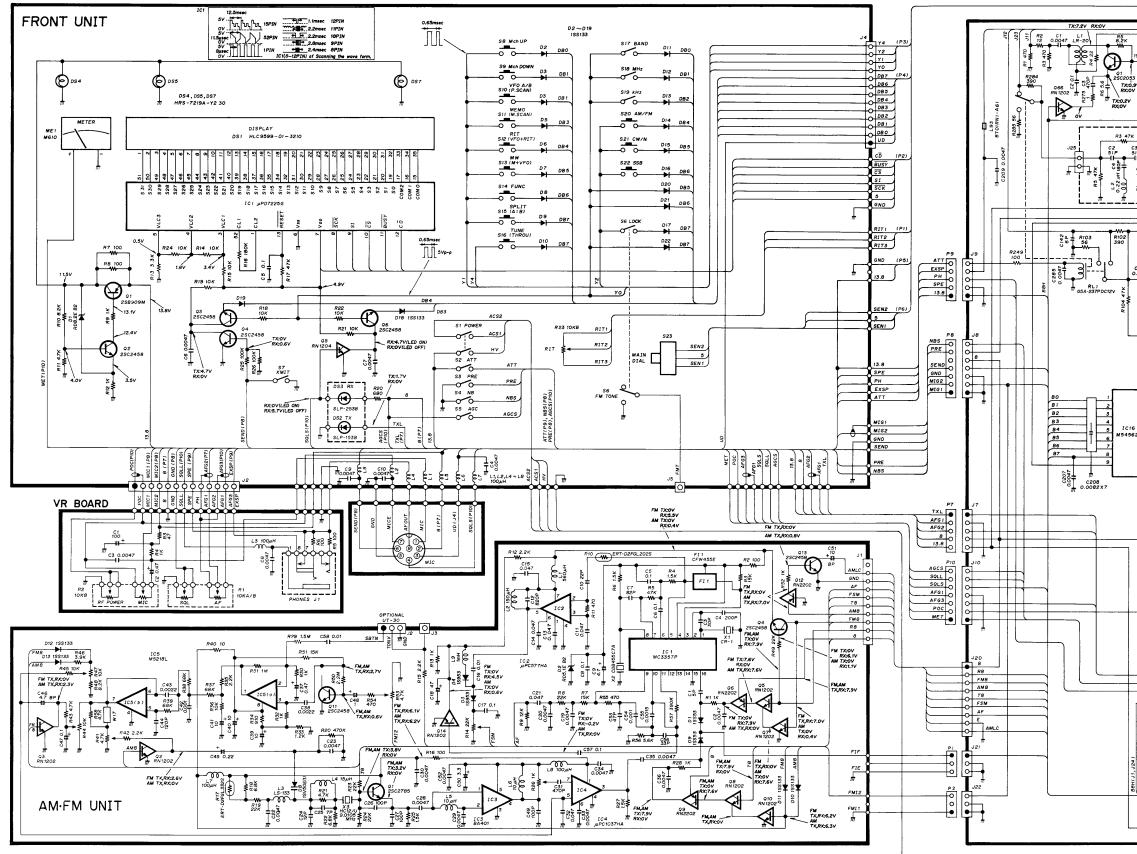
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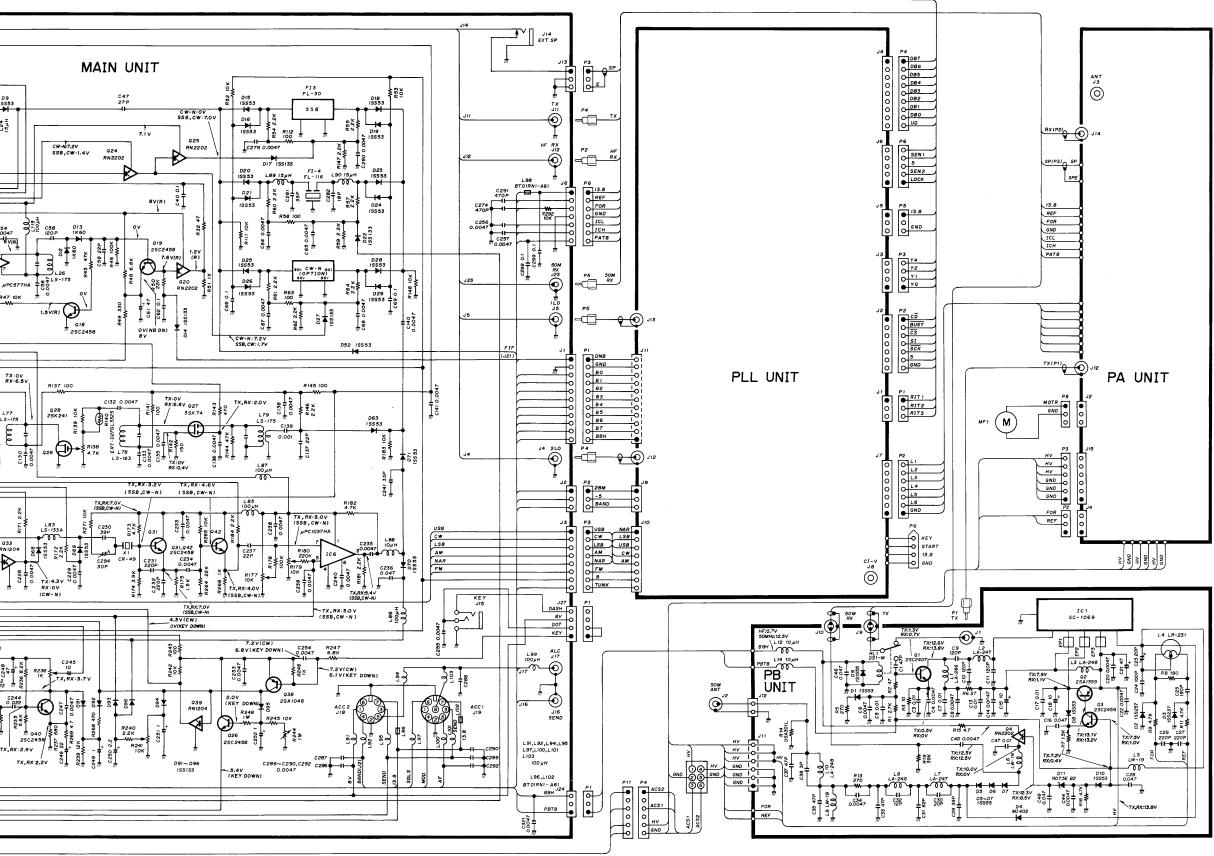


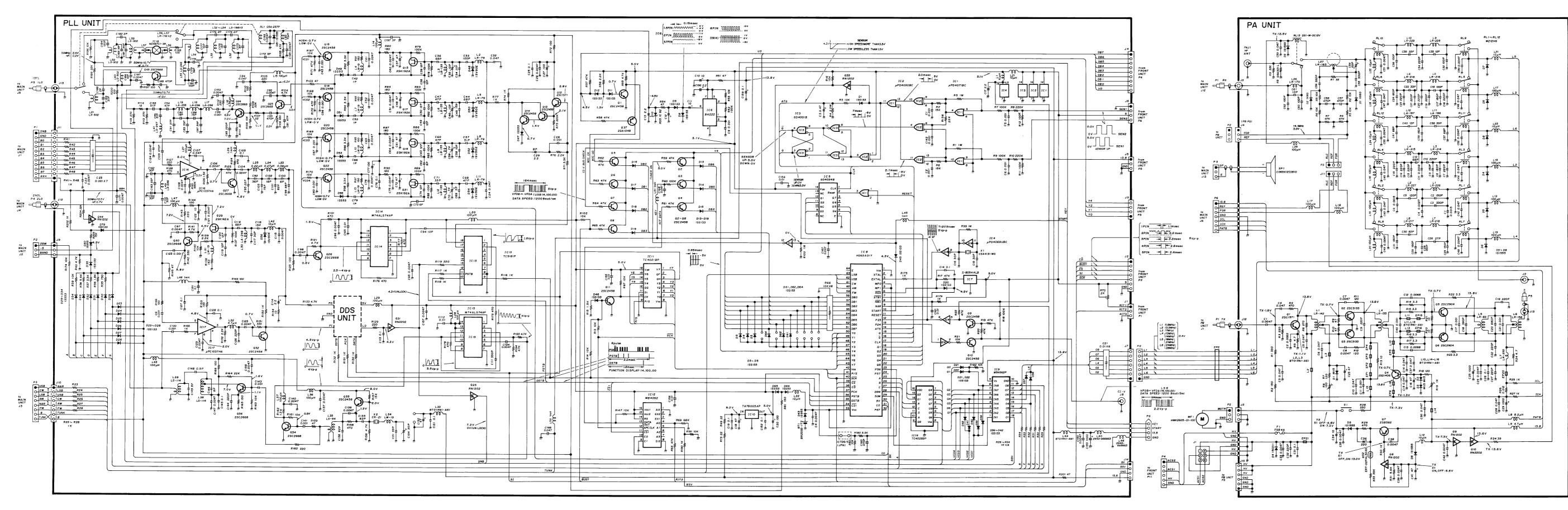
SECTION 8 VOLTAGE DIAGRAMS

8-1 FRONT AND MAIN UNITS



Tred.39 # Y C4 47P C6 15P T		C25 C25 C25 C25 C25 C25 C25 C25	m CW3.80' m× CW3.80' m× CW	PA 15533 15-18008 PA 15533 1553	
W- Q0 Q0 CID Pictor Pictor <t< th=""><th></th><th>010 RN2202</th><th>B33 B34 B34 B34 C001 F1 F1 F2 F3 TX:100 F1 F1 F3 F1 M F3 F1 F2 F3 M F1 F1 F1 F2 M F1 F1 F2 F3 M F3 F1 F3 F1 M F3 F1 F1 F2 M F3 F1 F1 F1 M F1 F1 F1 F1</th><th></th><th>27.7 V(R) 016 2 28.8 1924 0.16 2 016 2 017 10 00047 155133 00047 155133 00047 155133 00047 155133 00047 15513 155133 00047 15513 155133 00047 15513 15513 00047 15513 15513 00047 15513</th></t<>		010 RN2202	B33 B34 B34 B34 C001 F1 F1 F2 F3 TX:100 F1 F1 F3 F1 M F3 F1 F2 F3 M F1 F1 F1 F2 M F1 F1 F2 F3 M F3 F1 F3 F1 M F3 F1 F1 F2 M F3 F1 F1 F1 M F1 F1 F1 F1		27.7 V(R) 016 2 28.8 1924 0.16 2 016 2 017 10 00047 155133 00047 155133 00047 155133 00047 155133 00047 15513 155133 00047 15513 155133 00047 15513 15513 00047 15513 15513 00047 15513
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72.3V1HF1 /OVISOMRJ RIOO 100 /OVISOMRJ RIOO 100 /OVISOMRJ RIOO 100 /OVISOMRJ 90.5 7.257 065 RN 1202 90.5 7.259 81 IC-726 /S 91.5 7.259 81 IC-726 /S 92.5 7.250 8205 92.5 7.250 8205 92.5 7.250 900 /F	TX: 1.2V TX: 1.1V TX: RX: 0V POR 470K 2 2.2M RX: 6.9V 053 POR 470K 2 2.2M RX: 6.9V 053 R212 4.7K 3 1011 1 055 25A1048 R212 4.7K 3 1011 1 000 15513 25A1048 R212 4.7K 3 1011 1 000 10513 25A1048 R212 4.7K 3 10 1.5513 25A1048 0.0V 0.0V 1.0V R014 0.00 1.0K 1.0V 1.0V 0.0V 0.0V	448 2501225M 448 2501225M 2501225M 2501225M 2501225M 2501225M 2501225M 2501225M 2501225M 2501225M 2501225M 2501225M 2501225M 25012 25	R222 5 RX80V 10 RX80V 10 RX10V 10	K.4.1/VG R221 K:4.1/VG R221 K:0/V G R221	(FM) - 5% ± m of 0/FM/R/254 2% 7 R253 1000 - 10K 2273 - 2276 10 2279 - 2276 10 2270 - 2276 10 2770 - 27
		/ South: TX7.8V South: RX1.0V	-		





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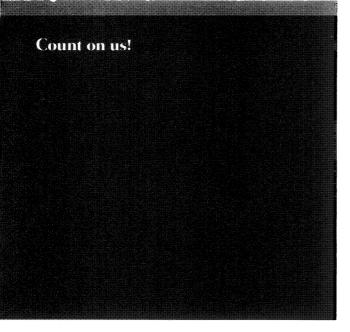
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