OICOM

SERVICE MANUAL

UHF TRANS	CEIVER	
	J21T	

Icom Inc.

INTRODUCTION

This service manual describes the latest service information for the IC-U21T UHF TRANSCEIVER at the time of publication.

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 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)

1150000540 IC SC1055 IC-U21T RF UNIT 5 pieces 8810004000 Screw PH B0 M2 × 31.5 ZK IC-U21T Rear panel 10 pieces

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

REPAIR NOTES

- Make sure a problem is internal before disassembling the transceiver.
- DO NOT open the transceiver until the transceiver is disconnected from its power source.
- DO NOT force any of the variable components. Turn them slowly and smoothly.
- DO NOT short any circuits or electronic parts. An insulated tuning tool MUST be used for all adjustments.
- 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.
- ALWAYS connect a 40 dB to 50 dB attenuator between the transceiver and a deviation meter or spectrum analyzer when using such test equipment.
- READ the instructions of test equipment thoroughly before connecting equipment to the transceiver.



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VERSIONS

VERSION NUMBER	VERSION	SYMBOL	FREQUENCY RANGE	CHANNEL SPACING	CHANNEL PITCH	VERSION NUMBER	VERSION	SYMBOL	FREQUENCY RANGE	CHANNEL SPACING	CHANNEL PITCH
#01	General	GEN	400-430 MHz	12.5 kHz	5/6.25 kHz	#10	United Kingdom	UK-1	400-430 MHz	12.5 kHz	5/6.25 kHz
#02	General	GEN-1	400-430 MHz	25 kHz	5/6.25 kHz	#11	Sweden	SWE	440-470 MHz	12.5 kHz	5/6.25 kHz
#03	General	GEN-2	440-470 MHz	12.5 kHz	5/6.25 kHz	#12	Greece	GRE	400-430 MHz	25 kHz	5/6.25 kHz
#04	General	GEN-3	440-470 MHz	25 kHz	5/6.25 kHz	#13	Greece	GRE-1	440-470 MHz	25 kHz	5/6.25 kHz
#05	Italy	ITA	440-470 MHz	25 kHz	5/6.25 kHz	#14	Australia	AUS-2	403-420 MHz	25 kHz	5/6.25 kHz
#06	France	FRA	440-470 MHz	12.5 kHz	5/6.25 kHz	# 15	Australia	AUS-3	450-470 MHz	25 kHz	5/6.25 kHz
#07	Australia	AUS	470-500 MHz	25 kHz	5/6.25 kHz	# 16	United Kingdom	UK-2	TX: 425-450 MHz RX: 440-450 MHz	12.5 kHz	5/6.25 kHz
#08	Australia	AUS-1	500-520 MHz	25 kHz	5/6.25 kHz	#17	United Kingdom	UK-3	400-425 MHz	12.5 kHz	5/6.25 kHz
#09	United Kingdom	UK	440-470 MHz	12.5 kHz	5/6.25 kHz	#18	Holland	HOL	406-430 MHz	12.5 kHz	5/6.25 kHz

SECTION 1 SPECIFICATIONS

GENERAL

• Frequency coverage : See VERSIONS on the right page of inside front cover.

• Mode : 16K0F3E (#02, #04, #05, #07, #08, #12, #13, #14, #15)

8K50F3E (#01, #03, #06, #09, #10, #11, #16, #17, #18)

• Number of channels : Up to 100 operating channels

Up to 30 5-Tone memory channels

• Channel spacing : 25 kHz (#02, #04, #05, #07, #08, #12, #13, #14, #15)

12.5 kHz (#01, #03, #06, #09, #10, #11, #16, #17, #18)

Usable battery pack
 CM-72, CM-73 or CM-3G to CM-12G

• External power supply : 13.2 V negative ground

• Current drain (at 13.2 V) : Transmit High 2.0 A

Low 1.2 A

Receive Max. audio 350 mA

Stand-by 150 mA

Antenna impedance : 50 Ω (nominal)

• Usable temperature range : -25°C to +55°C (-13°F to +131°F)

• Frequency stability ±1.5 kHz (-25°C to +55°C)

• Dimensions (with CM-72) : 65 (W) × 205 (H) × 35 (D) mm; 2.6 (W) × 8.1 (H) × 1.4 (D) in

• Weight (with CM-72) : 660 g (1.5 lbs)

TRANSMITTER

• Output power : High 5 W (with CM-73)

1.5 W (with CM-72)

Low 1 W

• Spurious emissions : $< 0.25 \ \mu W$ • FM noise and hum : $> 40 \ dB$

• Microphone impedance : $1.2 \text{ k}\Omega$

Audio response
 +1 dB to -3 dB of +6 dB/octave with 300 Hz to 3000 Hz input

(#02, #04, #05, #07, #08, #12, #13, #14, #15)

+1 dB to -3 dB of +6 dB/octave with 300 Hz to 2550 Hz input

(#01, #03, #06, #09, #10, #11, #16, #17, #18)

RECEIVER

• Sensitivity : 0.35 μV (PD) for 12 dB SINAD, signal input

modulated by 1 kHz tone at 60% peak deviation

• Intermediate frequencies : 1st 30.875 MHz

2nd 455 kHz

• Squelch sensitivity (threshold) : 0.35 μV

• Adjacent channel selectivity : >70 dB (#02, #04, #05, #07, #08, #12, #13, #14, #15)

>60 dB (#01, #03, #06, #09, #10, #11, #16, #17, #18)

Intermodulation rejection : >70 dBSpurious rejection : >70 dB

• Audio output power : 500 mW with an 8 Ω load

◆ Audio response : +1 dB to −3 dB of −6 dB/octave with 300 Hz to 3000 Hz modulation

(#02, #04, #05, #07, #08, #12, #13, #14, #15)

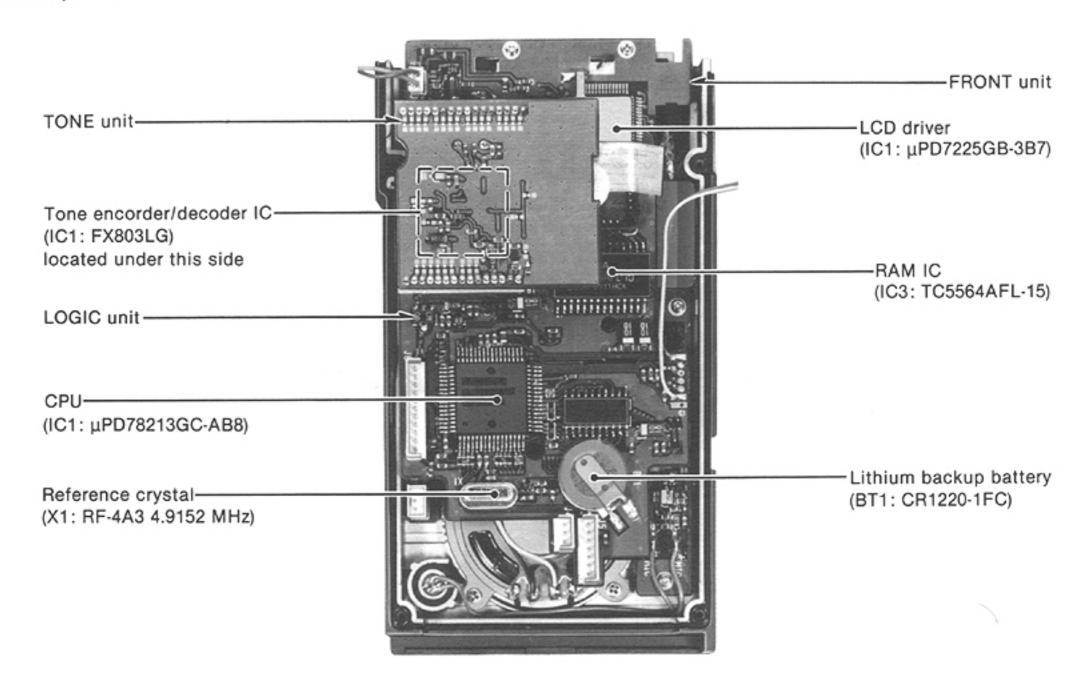
+1 dB to -3 dB of -6 dB/octave with 300 Hz to 2550 Hz modulation

(#01, #03, #06, #09, #10, #11, #16, #17, #18)

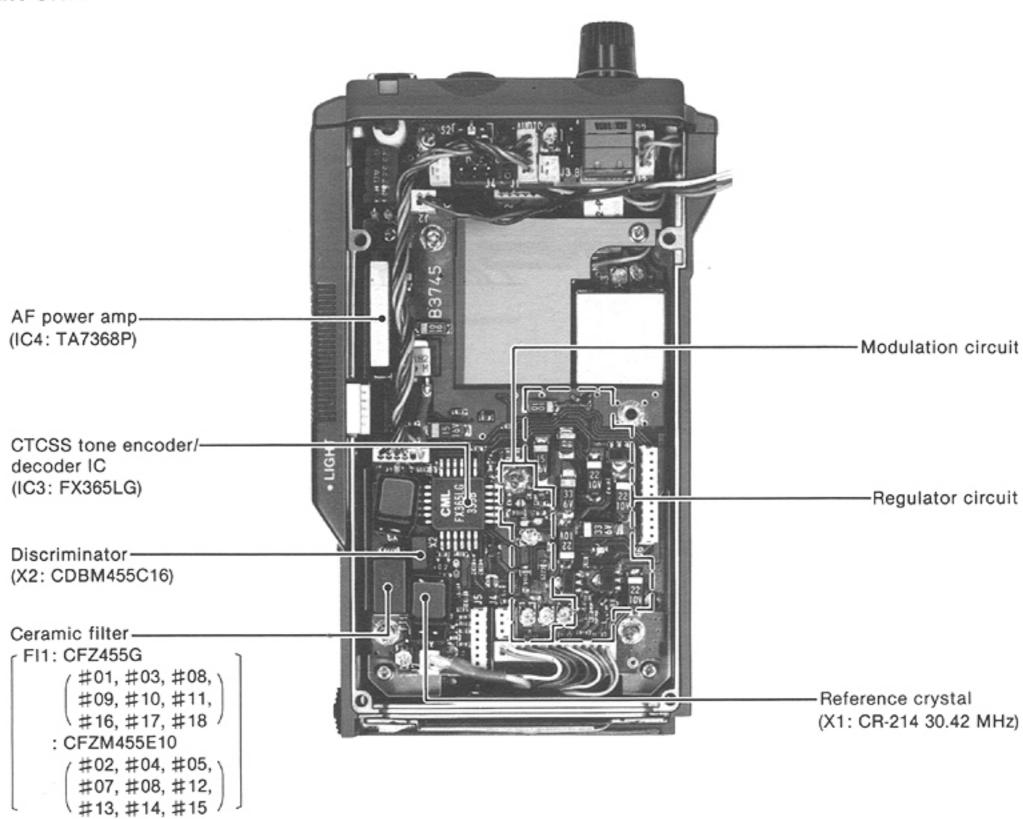
All stated specifications are subject to change without notice or obligation.

SECTION 2 INSIDE VIEWS

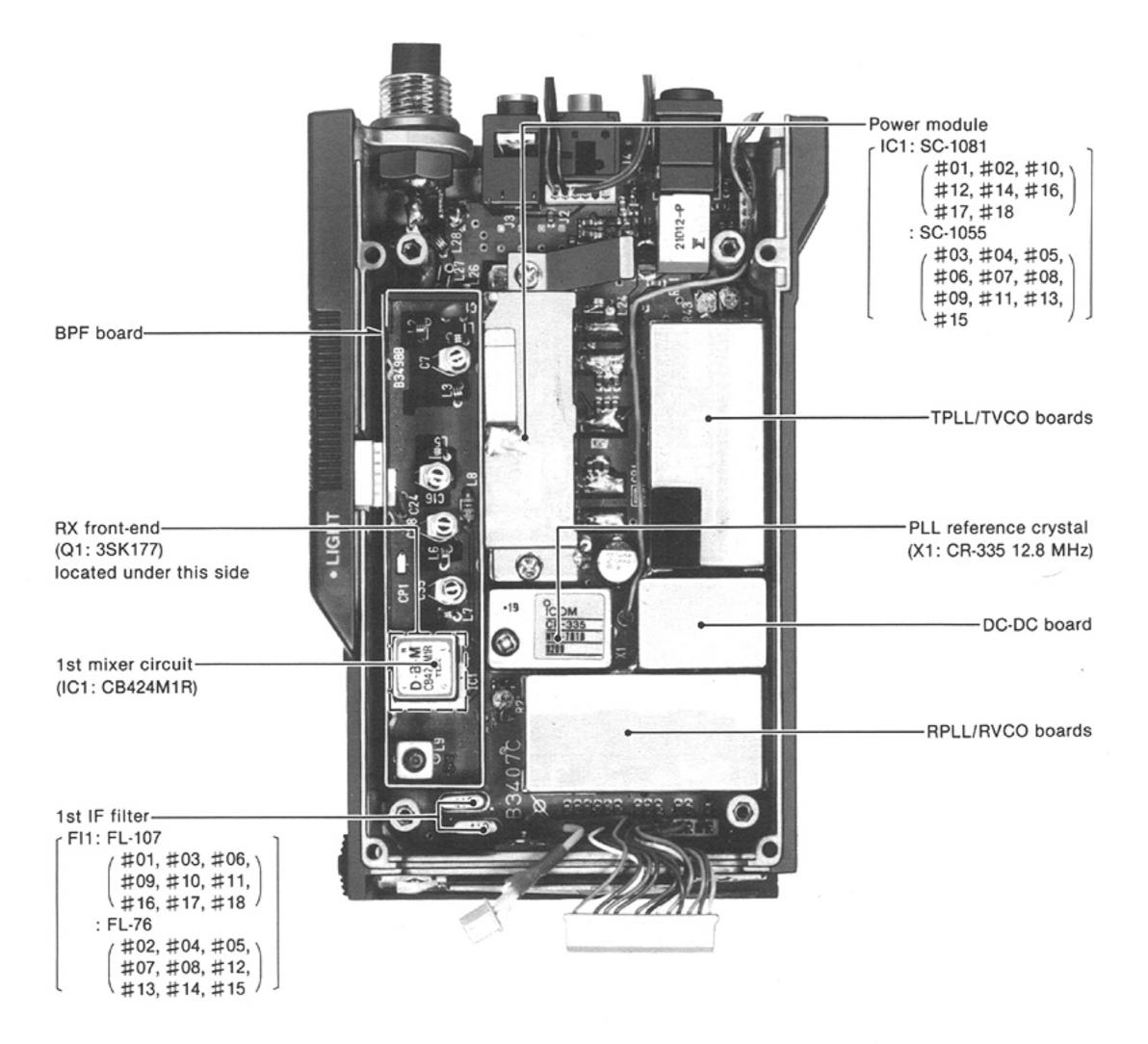
TONE, LOGIC AND FRONT UNITS



MAIN UNIT



RF UNIT



SECTION 3 CIRCUIT DESCRIPTION

3-1 RECEIVER CIRCUITS

3-1-1 ANTENNA SWITCHING CIRCUITS (RF AND BPF BOARD)

The antenna switching circuit functions as a low-pass filter while receiving and a resonator circuit while transmitting. The circuit does not allow transmit signals to enter receiver circuits.

Received signals, after entering the antenna connector, pass through the low-pass filter (L28, C75, C76) and one or two-stage bandpass filters to suppress out-of-band signals. 440–470 MHz versions employ a one-stage BPF (L26, C72–C74) and other versions employ a two-stage BPF (L26, L27, C72–C74, C163).

The filtered signals are passed through the $\lambda/4$ type antenna switching circuit (D1, L2, C2, C4) on the BPF board and are then applied to the RF amplifier (Q1).

3-1-2 RF AND 1ST MIXER CIRCUITS (BPF BOARD)

The 1st mixer circuit converts the received signal to a fixed frequency of the 1st IF signal with a PLL output frequency. By changing the PLL frequency, only the desired frequency will be passed through a pair of crystal filters at the next stage of the 1st mixer.

The signals from the antenna switching circuit are amplified at the RF amplifier (Q1) and passed through the tunable bandpass filter (D3–D5, L6, L7, C28, C35) to suppress out-of-band signals.

The signals are then mixed at the double balanced mixer (IC1) with a 1st LO signal coming from the RVCO circuit to produce a 30.875 MHz 1st IF signal. The 1st IF signal is amplified at Q2 and enters the RF unit. The signal is then passed through a pair of crystal filters (RF unit, FI1), amplified at Q3, and applied to the 2nd IF circuit in the MAIN unit.

3-1-3 2ND IF AND DEMODULATOR CIRCUITS (MAIN UNIT)

The 2nd mixer circuit converts the 1st IF signal to a 2nd IF signal. A double superheterodyne system (which converts receive signals twice) improves the image rejection ratio and obtains stable receiver gain.

The 1st IF signal from the RF unit is applied to a 2nd mixer section of IC1 (pin 16) and is then mixed with a 2nd LO signal for conversion to a 455 kHz 2nd IF signal.

IC1 contains the 2nd mixer, local oscillator, limiter amplifier, quadrature detector and active filter. The local oscillator section generates 30.42 MHz using X1.

The 2nd IF signal from the 2nd mixer (IC1, pin 3) passes through a ceramic filter (FI1) to remove unwanted heterodyned frequencies. It is then amplified at the limiter amplifier (IC1, pin 5) and applied to the quadrature detector (IC1, pin 8 and X2) to demodulate the 2nd IF signal into AF signals. The AF signals are output from pin 9.

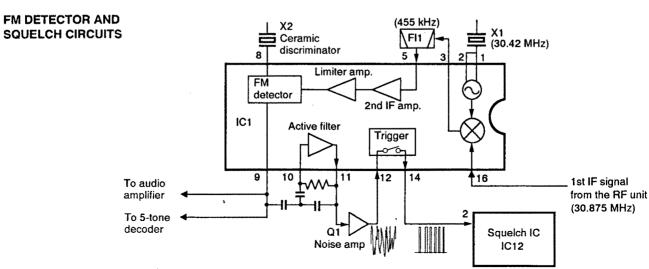


Fig. 3-1

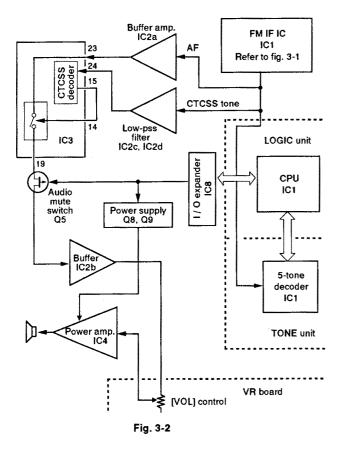
3-1-4 AF CIRCUIT (MAIN UNIT)

The AF circuit de-emphasizes the demodulated signal with -6 dB/octave and power amplifies the AF signal to drive a speaker. The AF circuit includes an AF mute switch for noise squelch and a 5-tone decoder.

The AF signal from IC1 (pin 9) is applied to IC2a where the signals are amplified and de-emphasized with -6 dB/oct. The output signals are then applied to the CTCSS tone encoder/decoder (IC3, pin 23). When CTCSS is matched or not used, the signals pass through IC3 via pin 19.

The signals are passed thorugh the audio mute switch (Q5), amplified at the preamplifier (IC2b), passed through the [VOL] control and then amplified at the AF power amplifier (IC4). The mute switch (Q5) functions when the noise squelch or 5-tone reset is closed.

AF CIRCUIT



3-1-5 NOISE SQUELCH CIRCUIT (MAIN UNIT)

The noise squelch circuit adopts the CPU pulse number control system to set customer requirements such as squelch sensitivity, hysteresis and open period delay.

Some noise components in the AF signal from IC1 (pin 9) are applied to an active filter section (IC1, pin 10) where frequencies of 20 kHz and above (noise components) are amplified.

The output from the active filter (IC1, pin 11) is amplified at Q1 and applied to a trigger section (IC1, pin 12) to convert the noise signals to pulse signals. The pulse signals output from pin 14 are applied to the squelch IC (IC12, pin 2).

While no RF signal is received, the number of pulses increases and the squelch IC outputs "HIGH" from pin 6. The signal (SQL) enters the CPU (LOGIC unit IC1, pin 33) and controls the squelch mute switch (Q5) via the RMUT port of the I/O expander IC (MAIN unit IC8). At this time, the regulator circuit of the AF power amplifier is deactivated to conserve battery power.

3-1-6 CTCSS DECODER CIRCUIT (MAIN UNIT)

The CTCSS (Continuous Tone Squelch System) circuit detects tone components superimposed on the audio signals and passes the signals only when the tone frequency is matched with the programmed one.

The decoder section of the tone encoder/decoder (IC3) has 2 input port, audio IN and tone IN. The audio signal, amplified at IC2a is applied to pin 23 and the tone signal, filtered at the low-pass filters (IC2c, IC2d) is applied to pin 24. When the tone signal is detected as matched with the programmed one, the detected signal appears on pin 15 and passes the audio input signal (pin 23) to pin 19.

3-1-7 5-TONE DECODER CIRCUIT (LOGIC UNIT)

A portion of the AF signals from the FM IF IC (MAIN unit IC1, pin 9) are applied to the 5-tone encoder/decoder IC in the TONE unit. These signals are converted to a serial signal by the digital noise filter and self-correlator inside the 5-tone encoder/decoder IC (IC1).

The serial signal is output via pin 3 and is applied to the CPU (LOGIC unit IC1, pin 53). Once the 5-tone data is decoded, a 5-tone mute signal is released and the AF mute switch (MAIN unit Q5) functions as a noise squelch only.

3-2 TRANSMITTER CIRCUITS

3-2-1 MICROPHONE AMPLIFIER CIRCUIT (MAIN UNIT)

The microphone amplifier circuit amplifies audio signals with +6 dB/octave pre-emphasis characteristics from the microphone to a level needed for the modulation circuit.

The AF signals from the microphone pass through the microphone mute switch (FRONT unit IC2) which is controlled by the "MMUT" and "SEND" signals from CPU. The passed signals are amplified at the limiter amplifier (IC9a) and IDC amplifier (IC9b). The limiter amplifier includes a pre-emphasis circuit.

The amplified signals are combined with a subaudible tone signal from IC3 and a 5-tone or DTMF signal from the TONE unit, and are then applied to the modulator circuit.

MICROPHONE AMPLIFIER CIRCUIT MAIN UNIT **FRONT UNIT** CTCSS IC2 audio mute switch R65 ≸ -MMUT signal while 5-tone R60 020 limitter amp IDC amp. IC9b To modulation circuit on the TVCO board Transmit mute from IC8 R74 **TONE UNIT** LOGIC UNIT 5-tone/DTMF IC1

3-2-2 MODULATION CIRCUIT (TVCO AND PLL BOARDS)

The modulation circuit modulates the VCO oscillating signal (RF signal) using the microphone audio signals.

Fig. 3-3

The audio signal (MOD) changes the reactance of D1 on the TVCO board to modulate the oscillated signal at the VCO (Q1). The oscillated signal is amplified at Q2 and Q3. The signal is divided by 2 at IC1 on the TPLL board and is then applied to the drive amplifiers in the RF unit.

3-2-3 DRIVE/POWER AMPLIFIER CIRCUITS (RF UNIT)

The signal from the TVCO board is amplified at the predriver (Q7), driver (Q8) and power module (IC1) to obtain 5 W of RF power. The amplified signal is passed through the APC detector circuit, low-pass filter and is then applied to the antenna connector.

The corrector current of the driver (Q8) and bias voltage of the power module (IC1) are controlled by the APC circuit to protect the power module from a mismatched condition as well as to stabilize the output power.

3-2-4 APC CIRCUIT (RF UNIT)

The APC circuit protects the power module (IC1) from a mismatched output load and selects HIGH or LOW output power.

The APC detector circuit (D7, D8, L24) detects forward signal and rectified signal at D7 and D8 respectively. The combined voltage is at a minimum level when the antenna is matched at $50~\Omega$ and is increased when it is mismatched.

The detected voltage is applied to one of the deferential amplifier inputs (Q13) and a power setting voltage is applied to the other input. When the antenna impedance is mismatched, the detected voltage exceeds the power setting voltage, causing Q13 to decrease the APC output current (Q9, Q10 collectors) via Q14 to decrease the output power.

Q12/R43 and Q18/R46 are used for high power and low power settings respectively.

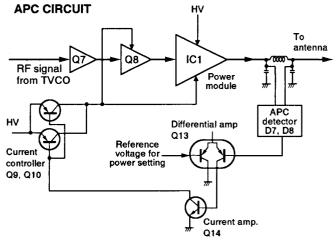


Fig. 3-4

3-3 PLL CIRCUITS

3-3-1 GENERAL

This transceiver has independent PLL circuit for the receiver (RPLL) and transmitter (TPLL) circuits to facilitate high lock-up speeds for switching between transmit and receive. Both PLLs activate regardless of the transmit/receive condition, but their outputs are muted depending on the condition.

3-3-2 RECEIVER PLL CIRCUIT (RPLL AND RVCO BOARDS)

The generated signal at the RVCO circuit (RVCO board Q1, D3, D4) is buffer amplified at Q2 and is then applied to the RPLL board.

The signal is applied to the PLL IC (PLL board IC2) where it is divided by the prescaler and programmable divider by the divided ratio from the CPU. The divided frequency is detected at the phase detector inside IC2 using the reference frequency from X1 on the RF unit.

The detected signal (pulse signal) output via IC2 (pins 15, 16) is converted to DC voltage (PLL lock voltage) at the charge pump (Q5) and active loop filter (Q2, Q3). The converted signal is then applied to the RVCO board to control the VCO frequency.

The VCO signal is amplified at Q2 and Q3 and is passed through the VCO output mute switch (D1, D2). It is then applied to the receiver 1st mixer in the BPF board.

The lock voltage is also used for the RF bandpass filter. The output of the loop filter (RPLL board Q2, Q3) is amplified at the buffer amplifier (Q1, IC1) and is then applied to the BPF board.

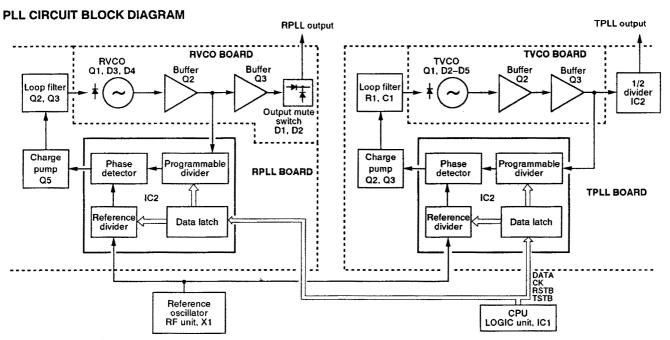
3-3-3 TRANSMITTER VCO CIRCUIT (TPLL AND TVCO BOARDS)

The transmitter PLL activates even while receiving. Therefore, 2 times the frequency is oscillated at the the transmitter VCO to prevent the receiver circuit from receiving the oscillating frequency directly.

The generated signal at the TVCO circuit (TVCO board Q1, D2–D5) is buffer amplified at Q2 and Q3 and is then applied to the TPLL board. The signal is applied to the PLL IC (TPLL board IC2) where it is divided by the prescaler and programmable divider by the divided ratio from the CPU. The divided frequency is detected at the phase detector inside IC2 using the reference frequency from X1 on the RF unit.

The detected signal (pulse signal) output via IC2 (pins 15, 16) is converted to DC voltage (PLL lock voltage) at the charge pump (Q2, Q3) and loop filter (R1, C1). The converted signal is then applied to the TVCO board to control the VCO frequency.

The VCO signal is amplified at Q2 and Q3, divided by 2 at the prescaler (TPLL board IC1) and is then applied to the transmitter circuit. While receiving, the prescaler does not function so that the PLL is activated but no PLL output is applied to the transmitter circuit.



Fia. 3-5

3-4 POWER SUPPLY CIRCUITS

(MAIN UNIT)

LINE	DECODIBITION
LINE	DESCRIPTION
HV	The external DC power from the DC power connector or the connected battery pack. The switching relay (RF unit RL1) connects either the [DC IN 13.8V] jack or the battery pack to the HV line when external DC is used or not used respectively.
vcc	The same voltage as the HV line which is controlled by the power switch ([VOL] control).
+5V	Common 5 V converted from the VCC line by the 5 V regulator circuit (Q10, Q11, D6) using the reference regulator (IC5) on the MAIN unit.
S5	Common 5 V controlled by the power saver function. The S5 regulator circuit (Q12, Q13, Q23, D7) produces 5 V from the VCC voltage using the power save controlled signal from IC11.
R5	5 V for receiver circuit controlled by S5 (including power saver function) and the T/R switching signal from the I/O expander IC (IC8, pin 14). The R5 regulator consists of Q14, Q15, and D8
T5	5 V for transmitter circuit controlled by the inverted TMUT signal from the I/O expander (IC8, pin 6). The T5 regulator circuit consists of Q16, Q17 Q24 and D9.

3-5 PORT ALLOCATIONS

3-5-1 EXPANDER IC (MAIN UNIT IC8)

PIN No.	PORT NAME	DESCRIPTION				
1	STB	Input port for a strobe signal from the CPU.				
2	DATA	Input port for a data signal from the CPU.				
3	СК	Input port for a clock signal from the CPU.				
4	LOW	Outputs a transmit power control signal.				
5	EXC	Outputs a transmit control signal while activating an answer back function.				
6	ТМИТ	Outputs a transmit mute signal. "H": muted				
7	RMUT	Outputs a receive audio mute signal. "H": muted				

3-5-3 CPU (LOGIC UNIT IC1)

PIN No.	PORT NAME	DESCRIPTION			
1	RD	Output a timing signal "data read" to the RAM IC (LOGIC unit, IC3).			
2	STB	Outputs a strobe signal to the expander IC (MAIN unit, IC8).			
3	СЅТВ	Outputs a strobe signal to the CTCSS tone encoder/decder (MAIN unit, IC3).			
4	тѕтв	Outputs a strobe signal to the transmitter PLL IC (TPLL unit, IC2).			
5	RSTB	Outputs a strobe signal to the receiver PLL IC (RPLL unit, IC2).			
6	RESET	Input port for a reset signal to activate the CPU when turning power ON.			
7 8	X1 X2	Terminals of a CPU clock oscillator.			
28	INTO	Interrupt input port for stand-by signal to store the data when turning power OFF.			
29	INT1	Interrupt input port for 5-tone data. When receives "H," the CPU stands by for 5-tone data.			
30	H/L	High/Low switch signal input port for transmitter power. High power: "H"			
31	LIGHT	Input port for the [LIGHT] switch.			
32	FUNC	Inpu port for the scan start/stop signal.			
33	SQL	Input port for the noise squelch signal from the squelch IC (MAIN unit, IC12).			
34	UNLK	Input port for the PLL unlock signal from the both RPLL and TPLL circuits.			
35	BUSY	Input port for the busy signal from the LCD driver (FRONT unit, IC1).			
36	SEND	Input port for the SEND (PTT switch) signal or cloning data.			
37	MMUT	Outputs a microphone mute signal while activating a 5-tone encoder. Outputs a cloning data while cloning condition.			
38	ск	Outputs a clock signal synchronized with a data output.			
39	DATA	Outputs serial data to PLL circuits, CTCSS encoder/decoder, LCD driver, etc.			
44	CALL	Input port for the [CALL] switch.			
59	Ō/D	Outputs a specify signal to the LCD driver (FRONT unit, IC1) for data and command.			
61	PSV	Outputs a power save signal to control S5 volatge line.			
62	DET	Input port a CTCSS decoder signal.			
63	BEEP	Outputs a beep tone signal.			
64	WR	Outputs a timing signal "data write" to the RAM IC (LOGIC unit, IC3).			

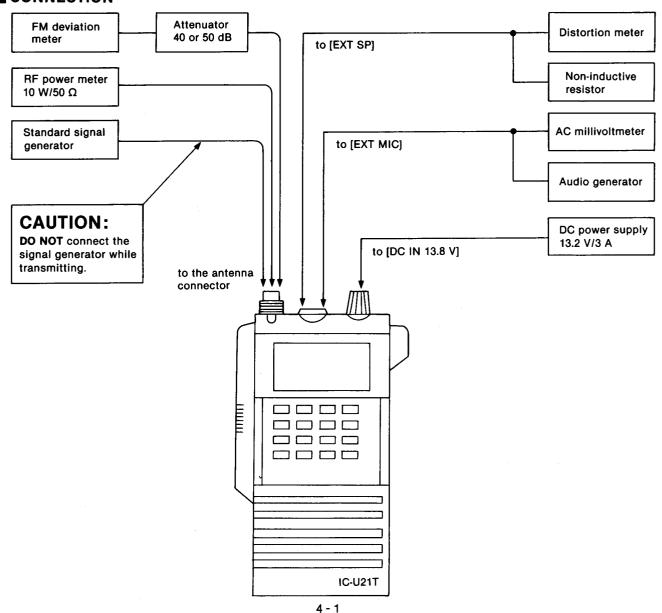
SECTION 4 ADJUSTMENT PROCEDURES

4-1 PREPARATION BEFORE SERVICING

REQUIRED TEST EQUIPMENT

EQUIPMENT	EQUIPMENT GRADE AND RANGE		GRADE AND RANGE
DC power supply	Output voltage : 13.2 V DC Current capacity : 3 A or more	Audio generator	Frequency range : 300-3000 Hz Output level : 1-200 mV
RF power meter (terminated type)	Measuring range : 1-10 W Frequency range : 400-600 MHz	Attenuator	Power attenuation : 40 or 50 dB Capacity : 10 W or more
	Impedance : 50 Ω SWR : Less than 1.2 : 1	AC millivoltmeter	Measuring range : 2-200 mV
Frequency counter	Frequency range : 0.1-600 MHz Frequency accuracy : ±1 ppm or better	Non-inductive resistor	Impedance : 8 Ω
	Sensitivity : 100 mV or better	DC voltmeter	Input impedance : 50 kΩ/DC or better
Distortion meter	Frequency range : 1 kHz±10 Hz Measuring range : 1-100%	FM deviation meter	Frequency minimum: 600 MHz Measuring range: 0 to ±5 kHz
Standard signal generator (SSG)	Frequency range : 400-600 MHz Output level : -127 to -17 dBr (0.1 µV to 32 mV)	Digital multimeter or oscilloscope	Input impedance : 1 MΩ/DC or better

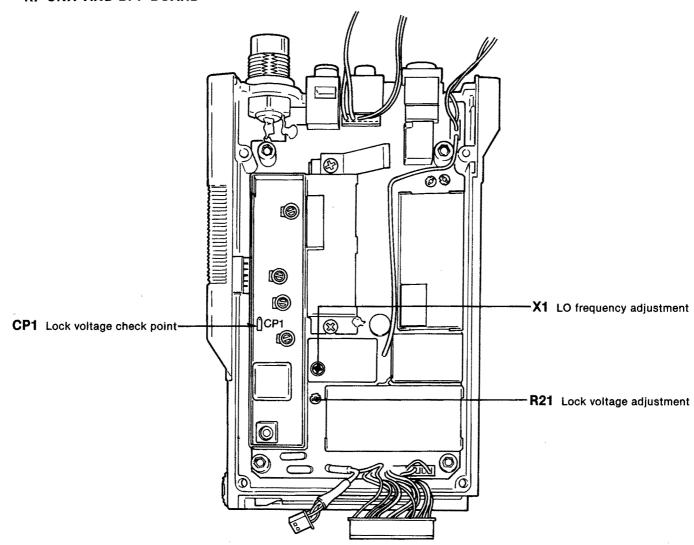
■ CONNECTION



4-2 PLL ADJUSTMENT

ADJUSTME	NT	ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSTMENT		ADJUGINIENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
LO FREQUENCY		 Select any channel. Connect the RF power meter or a 50 Ω dummy load to the antenna connector. Transmitting 	Top panel	Loosely couple the frequency counter to the antenna connector.	Same frequency as the programmed one. To check the programmed frequency, use the EX-704.	RF	X1
LOCK VOLTAGE		NOTE: Lock voltage affects the C/N r	atio. If y	ou adjust the lock volta	ge, set the frequency with	the EX-7	704.
	1	• Operating frequency: 400.000 MHz (#01, #02, #10, #12, #14, #17,) 440.000 MHz (#03, #04, #05, #06, #09, #11,) (#13, #15, #16 470.000 MHz (#07) 500.000 MHz (#08) • Receiving	BPF	Connect the digital multimeter or oscilloscope to CP1.	3.0 V	RF	R21

• RF UNIT AND BPF BOARD

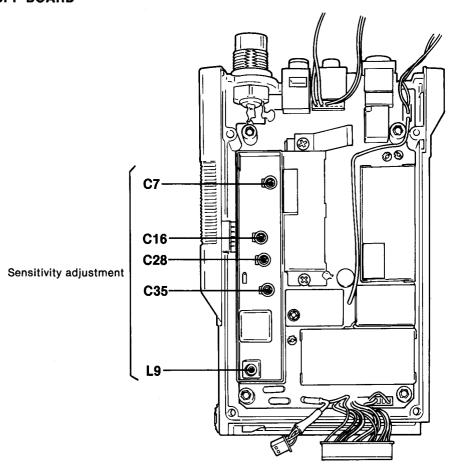


4-3 RECEIVER ADJUSTMENT

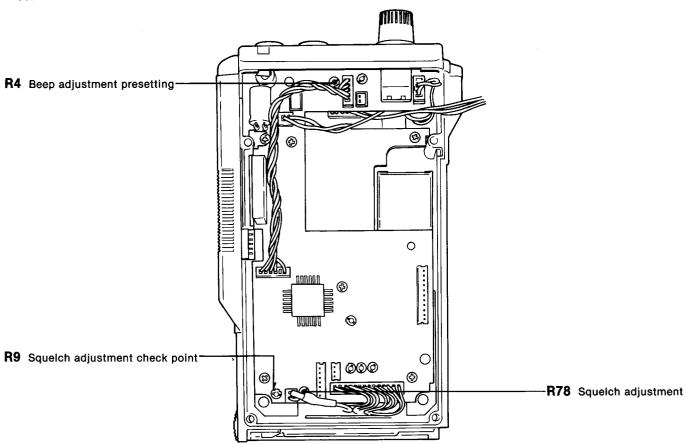
ADJUSTMENT		ADJUSTMENT CONDITIONS	N	IEASUREMENT	VALUE	ADJUSTMENT POINT	
		ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
SENSITIVITY		NOTE: When the sensitivity is less that adjustment is not necessary. This transceiver automatically Be careful when connecting the	Skip to s	quelch adjustment bel	ow. when a 5-tone code is re-		
	1	• Operating frequency: The lowest frequency in the frequency coverage. • Connect the SSG to the antenna connector and set as: Level : 0.35 µV*(-116 dBm) Modulation: 1 kHz Deviation : 3.5 kHz	Top panel	Connect the distortion meter to the [EXT SP] jack with an 8 Ω load.	Minimum distortion level	BPF	Adjust in sequence L9, C7, C16, C28, C35
SQUELCH	1	Operating frequency: The lowest frequency in the frequency coverage. Apply no signal to the antenna connector. Receiving	MAIN	Connect the digital multimeter or oscilloscope to R9 terminal.	1.2 V	MAIN	R9
	2	• Connect the SSG to the antenna connector and set as: Level : 0.35 µV*(-116 dBm) Modulation: 1 kHz Deviation : 3.5 kHz (#02, #04, #05, #07, #08, #12, #13, #14, #15) 1.75 kHz (#01, #03, #06, #09, #10, #11, #16, #17, #18)	Front panel	Speaker	Squelch just opens.		R78
BEEP	1	Select any channel. [VOL] control : Center R4 (VR unit) : CW Receiving	Front panel	Speaker	Verify that the level of the beep sound is adjustable.	Front panel	[VOL] control

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

• BPF BOARD



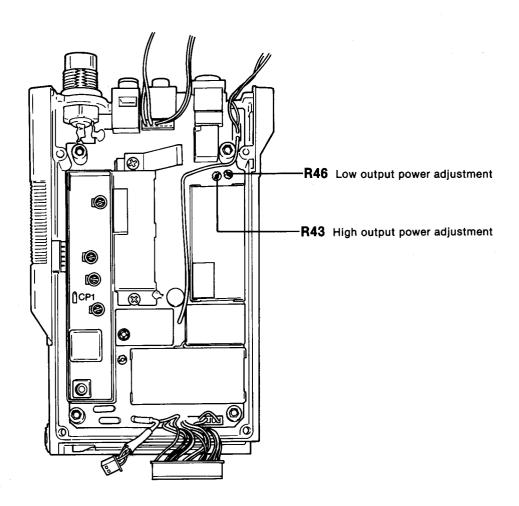
• VR AND MAIN UNITS



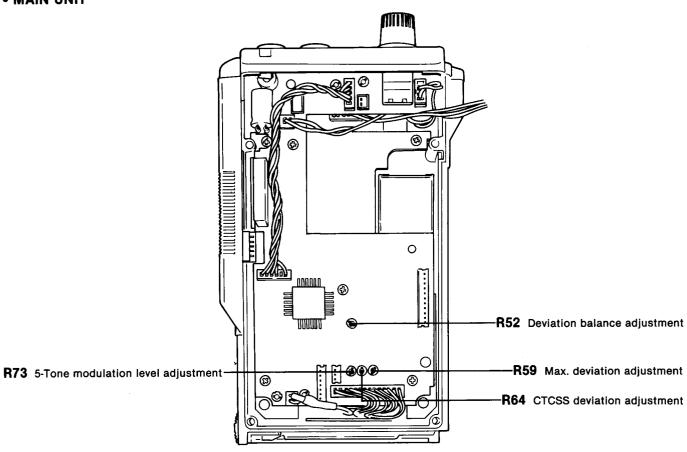
4-4 TRANSMITTER ADJUSTMENT

ADJUSTME	:NT	ADJUSTMENT CONDITIONS	N	MEASUREMENT	VALUE	ADJUSTMENT POINT	
		ADJUSTMENT CONDITIONS	UNIT LOCATION		VALUE	UNIT	ADJUST
OUTPUT POWER	1	Operating frequency: Center of the frequency coverage Output power : HIGH Transmitting	Top panel	Connect the RF power meter to the antenna connector.	5.0 W	RF	R43
	2	Output power : LOW (if programmed)			1.0 W		R46
DEVIATION	1	Operating frequency: The highest frequency in the frequency coverage Connect the audio generator to the microphone connector with the AC millivoltmeter and set as: Level: 120 mV Frequency: 1.0 kHz Set the FM deviation meter as: HPF: OFF LPF: 20 kHz De-emphasis: OFF Detector: (P-P)/2 R64 and R73 (MAIN unit): Center Transmitting	Top panel	Connect the FM deviation meter to the antenna connector via the attenuator.	±4.1 kHz (#02, #04, #05, #07, #08, #12, #13, #14, #15 ±2.1 kHz (#01, #03, #06, #09, #10, #11, #16, #17, #18	MAIN	R59
	2	Set the FM deviation meter as: Detector : P and -P			Symmetrical deviation level		R52
CTCSS DEVIATION	1	Select a CTCSS tone encoder programmed channel (67 Hz). Set the FM deviation meter as: HPF : OFF LPF : 20 kHz De-emphasis: OFF Detector : (P-P)/2 Apply no signal to the [MIC] connector. Transmitting	Top panel	Connect the FM deviation meter to the antenna connector via the attenuator.	±0.75 kHz (#02, #04, #05, #07, #08, #12, #13, #14, #15 ±0.3 kHz (#01, #03, #06, #09, #10, #11, #16, #17, #18	MAIN	R64
5-TONE DEVIATION (#01-#06, #09-#13)	1	Select a 5-tone programmed channel. (The long-tone programmed channel is easy to adjust.) Set the FM deviation meter as: HPF: OFF LPF: 20 kHz De-emphasis: OFF Detector: (P-P)/2 Apply no signal to the [MIC] connector. [CALL] switch: ON Transmitting	Top panel	Connect the FM deviation meter to the antenna connector via the attenuator.	±3.5 kHz (#02, #04, #05, #07, #08, #12, #13, #14, #15 ±1.75 kHz (#01, #03, #06, #09, #10, #11, #16, #17, #18	MAIN	R73

• RF UNIT



• MAIN UNIT



SECTION 5 PARTS LIST

[PTT UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION
S1 S2 S3	2260001560 2260001560 2260001560	S. SWITCH S. SWITCH S. SWITCH	SW-131 (SKHMPU) [FUNC] SW-131 (SKHMPU) [CALL] SW-131 (SKHMPU) [PTT]
J1	6510007180	CONNECTOR	PI28A-05M
EP1	0910029082	PCB	B 2709B (PTT)

[TANSHI UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
C1 C2	4030006860 4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
EP1	0910040131	РСВ	B 2708A (TANSHI)

[RF UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION
IC1	1150000540	IC	SC1055
			(#03-#09, #11, #13, #15)
	1150000640	IC	SC1081
			(#01, #02, #10, #12, #14,
			#16-#18)
IC3	1130003610	S. IC	TC4SU69F (TE85R)
Q3	1560000430	S. FET	2SK302-GR (TE85R)
Q5	1530002240	S. TRANSISTOR	' '
Q6	1510000510	S. TRANSISTOR	2SA1576 T107 R
Q7	1530002620	S. TRANSISTOR	2SC3585 R44-T2B
Q8	1530002680	S. TRANSISTOR	2SC3357-T2
Q9	1520000200	S. TRANSISTOR	2SB798-T2 DK
Q10	1520000200	S. TRANSISTOR	2SB798-T2 DK
Q12	1590000430	S. TRANSISTOR	DTC144EU T107
Q13	1590000620	S. TRANSISTOR	
Q14	1530002850	S. TRANSISTOR	2SC4116-BL (TE85R)
Q15	1560000360	S. FET	2SK209-Y (TE85R)
Q16	1590000680	S. TRANSISTOR	
Q17	1510000510	S. TRANSISTOR	
Q18	1590000430	S. TRANSISTOR	DTC144EU T107
D6	1790000490	S. DIODE	HSM88AS-TR `
D7	1750000090	S. DIODE	1SS154 (TE85R)
D8	1750000090	S. DIODE	1SS154 (TE85R)
D9	1750000080	S. DIODE	1SS153-T2
D11	1160000050	S. DIODE	DAP202U T107
D12	1750000070	S. DIODE	1SS226 (TE85R)

[RF UNIT]

[RI ORIT]			
REF. NO.	ORDER NO.	D	ESCRIPTION
D15	1790000590	S. DIODE	MA110 (TW)
D16	1730001050	S. ZENER	RD20M-T2B1
D17	1730001050	S. ZENER	RD20M-T2B1
X1	6050007410	XTAL	CR-335
FI1	2010000230	MONOLITHIC	30M15B (FL-76) (#02, #04, #05, #07, #08, #12-#15)
	2010000940	FILTER	30M7B (FL-107)
			(#01, #03, #06, #09-#11,
			#16-#18)
L7	6200000140	S. COIL	LQH 3N 1R0M
L8	6200000240	S. COIL	LQH 3N R68M
L9	6200000140	S. COIL S. COIL	LQH 3N 1R0M LQN 2A 18NM
L11 L12	6200000090 6200000090	S. COIL	LQN 2A 18NM
L12	6200000090	S. COIL	LQN 2A 18NM
L14	6200001450	S. COIL	LQH 3N 221K
L16	6200000090	S. COIL	LQN 2A 18NM
L17	6200000090	S. COIL	LQN 2A 18NM
L19	6200000090	S. COIL	LQN 2A 18NM
L21	6200001450	S. COIL	LQH 3N 221K
L22	6200000140	S. COIL	LQH 3N 1R0M
L23	6200002880	S. COIL	NL 322522T-680J
L24	6110001520	COIL	LA-232
L25	6200000820 6110001980	S. COIL COIL	LQH 3N R82M LA-222
L26 L27	6110001980	COIL	LA-222 LA-382
L21	0110002110	OOIL	(#01, #02, #07, #08, #10,
L28	6110001990	COIL	#12, #14-#18) LA-223
L31	6200001820	S. COIL	LQH 3N 331K
L32	6110001980	COIL	LA-222
			(#01, #02, #07, #08, #10,
			#12, #14-#18)
R15	7030003380	S. RESISTOR	ERJ3GEYJ 331 V (330 Ω)
			(#01, #03, #06, #09-#11, #16-#18)
	7030003430	S. RESISTOR	ERJ3GEYJ 821 V (820 Ω)
			(#02, #04, #05, #07, #08, #12-#15)
R16	7030003280	S. RESISTOR	# 12-# 15) ERJ3GEYJ 470 V (47 Ω)
R21	7310002600	S. TRIMMER	RV-110
			(RH03A3AS4X0AA) 473
			(#03-#06, #09, #11,
			#13, #15, #16)
	7310002740	S. TRIMMER	RV-150
			(RH03A3A14X0FC) 103 (#01, #02, #07, #08,
			#10, #12, #14, #17, #18)
R25	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R26	7030003430	S. RESISTOR	ERJ3GEYJ 821 V (820 Ω)
R27	7030004030	S. RESISTOR	ERJ3GEYJ 5R6 V (5.6 Ω)
R28	7030003430	S. RESISTOR	ERJ3GEYJ 821 V (820 Ω)
R29	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R30	7030003500	S. RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
R31 R32	7030000260 7030003540	S. RESISTOR S. RESISTOR	MCR10EZHJ 100 Ω (101) ERJ3GEYJ 682 V (6.8 kΩ)
R33	7030003540	S. RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
			. (

[RF UNIT]

[RF UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
R34	7030000400	S. RESISTOR	MCR10EZHJ 1.5 kΩ (152)
R35	7030000400	S. RESISTOR	MCR10EZHJ 1.5 kΩ (152)
R36	7030003580	S. RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
R37	7030000280	S. RESISTOR	MCR10EZHJ 150 Ω (151)
R38	7030003670	S. RESISTOR	ERJ3GEYJ 823 V (82 kΩ)
R39	7030003600	S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R40	7030003600	S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R41	7030003000	S. RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
R42	7030003450	S. RESISTOR	ERJ3GEYJ 221 V (220 Ω)
			• •
R43	7310002770	S. TRIMMER	RV-153 (RH03A3AN4X02A) 333
R46	7310002740	S. TRIMMER	RV-150 (RH03A3A14X0FC) 103
R49	7030003620	S. RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
R50	7030003460	S. RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)
R51	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R52	7030003240	S. RESISTOR	ERJ3GEYJ 220 V (22 Ω)
R53	7030000280	S. RESISTOR	MCR10EZHJ 150 Ω (151)
R54	7030000210	S. RESISTOR	MCR10EZHJ 39 Ω (390)
R55	7030000210	S. RESISTOR	MCR10EZHJ 150 Ω (151)
R56			ERJ3GEYJ 222 V (2.2 kΩ)
	7030003480	S. RESISTOR	, ,
R57	7030003500	S. RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
R58	7030003410	S. RESISTOR	ERJ3GEYJ 561 V (560 Ω)
R59	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R60	7030000220	S. RESISTOR	MCR10EZHJ 47 Ω (470)
R61	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R62	7030003240	S. RESISTOR	ERJ3GEYJ 220 V (22 Ω)
R63	7030003340	S. RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R64	7030000140	S. RESISTOR	MCR10EZHJ 10 Ω (100)
R65	7030003600	S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
		1	, ,
R66	7030003580	S. RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
R67	7030003650	S. RESISTOR	ERJ3GEYJ 563 V (56 kΩ)
R68	7030003600	S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R69	7030003460	S. RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)
R70	7030003770	S. RESISTOR	ERJ3GEYJ 564 V (560 kΩ)
R71	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R72	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R73	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R74	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R75	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R76	7030003440	S. RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)
n/o			(#07)
	7030003550	S. RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ) (#08)
	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ) (#01, #02, #10, #12, #14, #17, #18)
	7030003590	S. RESISTOR	ERJ3GEYJ 183 V (18 kΩ) (#03-#06, #09, #11, #13, #15, #16)
077	7020000 150	e peciazon	, ,
R77	7030003450	S. RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
R78	7030003530	S. RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)
R79	7030003620	S. RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
R81	7030003390	S. RESISTOR	ERJ3GEYJ 391 V (390 Ω) (#01, #03, #06, #09-#11,
	7030003430	S. RESISTOR	#16-#18) ERJ3GEYJ 821 V (820 Ω) (#02, #04, #05, #07, #08,
			#12-#15)
R82	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R83	7030003300	S. RESISTOR	ERJ3GEYJ 680 V (68 Ω)
C40	4030006620	S. CERAMIC	C1608 SL 1H 120J-T-A (#02, #04, #05, #07, #08, #12-#15)
	4030006670	S. CERAMIC	C1608 SL 1H 270J-T-A (#01, #03, #06, #09-#11, #16-#18)
C41 C42	4030006860 4030006850	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 471K-T-A

REF. NO.	ORDER NO.		DESCRIPTION
C43	4030006630	S. CERAMIC	C1608 SL 1H 150J-T-A
C44	4030007020	S. CERAMIC	C1608 CH 1H 120J-T-A
C45	4030006890	S. CERAMIC	C1608 JF 1H 103Z-T-A
C46	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C47	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C52	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C53	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C54	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C55	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C56	4030006850 4030006560	S. CERAMIC S. CERAMIC	C1608 JB 1H 471K-T-A C1608 SL 1H 050C-T-A
C57 C58	4030006360	S. CERAMIC	C1608 JB 1H 471K-T-A
C59	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C60	4030006590	S. CERAMIC	C1608 SL 1H 080D-T-A
C61	4030006620	S. CERAMIC	C1608 SL 1H 120J-T-A
C62	4030006590	S. CERAMIC	C1608 SL 1H 080D-T-A
C63	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C64	4030006570	S. CERAMIC	C1608 SL 1H 060D-T-A
C65	4030006570	S. CERAMIC	C1608 SL 1H 060D-T-A
C66	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C67	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C71	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C72	4030006560	S. CERAMIC	C1608 SL 1H 050C-T-A
	4000000500	0.0504440	(#08)
	4030006580	S. CERAMIC	C1608 SL 1H 070D-T-A
	4020006500	C CEDAMIC	(#07)
	4030006590	S. CERAMIC	C1608 SL 1H 080D-T-A
			(#01, #02, #10, #12, #14-#18)
	4030006600	S. CERAMIC	C1608 SL 1H 090D-T-A
	400000000	S. SETIAMIO	(#03-#06, #09, #11, #13)
C73	4030006530	S. CERAMIC	C1608 SL 1H 020C-T-A
0.0			(#01-#07, #09-#18)
C74	4030006600	S. CERAMIC	C1608 SL 1H 090D-T-A
			(#08)
	4030006620	S. CERAMIC	C1608 SL 1H 120J-T-A
			(#01, #02, #07, #10, #12,
			#14-#18)
C75	4030006620	S. CERAMIC	C1608 SL 1H 120J-T-A
C76	4030006570	S. CERAMIC	C1608 SL 1H 060D-T-A
	4030006580	S. CERAMIC	(#07) C1608 SL 1H 070D-T-A
	4030000560	S. CENAMIC	(#01-#06, #08-#18)
C77	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C78	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C79	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C80	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C81	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C82	4550000270	S. TANTALUM	TESVA 1E 474M1-8L
C83	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C84	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C85	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C86	4550003180	S. TANTALUM	TEMSVB2 1D 335M-8L
C87	4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A
C88 C89	4030006860 4030006850	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 471K-T-A
C90	4030006570	S. CERAMIC	C1608 SL 1H 060D-T-A
C91	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C92	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C93	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C94	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C95	4030006610	S. CERAMIC	C1608 SL 1H 100D-T-A
C96	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C97	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C98	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C99	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C100	4030006850	S. CERAMIC S. CERAMIC	C1608 JB 1H 471K-T-A C1608 JB 1H 102K-T-A
M404 1			U IDUO JEI ITI IUZK-I-A
C101	4030006860		
C102	4030006620	S. CERAMIC	C1608 SL 1H 120J-T-A

[RF UNIT]

[RF UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION
C105	4030006620	S. CERAMIC	C1608 SL 1H 120J-T-A
C106	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C107	4030006570	S. CERAMIC	C1608 SL 1H 060D-T-A
C108 C109	4030006850 4030006570	S. CERAMIC S. CERAMIC	C1608 JB 1H 471K-T-A C1608 SL 1H 060D-T-A
C111	4550003200	S. TANTALUM	TEMSVC 1D 106M-12L
C112	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C113	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C114	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C115	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A C1608 JB 1H 102K-T-A
C116 C117	4030006860 4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A
C118	4550003030	S. TANTALUM	TEMSVA 0J 475M-8L
C119	4550003030	S. TANTALUM	TEMSVA 0J 475M-8L
C120	4550003030	S. TANTALUM	TEMSVA OJ 475M-8L
C121	4550003030	S. TANTALUM	TEMSVA 0J 475M-8L
C122 C123	4030006860 4550003200	S. CERAMIC S. TANTALUM	C1608 JB 1H 102K-T-A TEMSVC 1D 106M-12L
C123	4550003200	S. TANTALUM	TEMSVC 1D 106M-12L
C125	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C126	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C127	4030006940	S. CERAMIC	C1608 CH 1H 030C-T-A
C128	4030006860 4030006850	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A
C129 C130	4550003080	S. CERAMIC S. TANTALUM	C1608 JB 1H 471K-T-A TEMSVA 1A 335M-8L
C131	4550003080	S. TANTALUM	TEMSVA 1C 225M-8L
C132	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C133	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C134	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C135	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C136 C137	4030006860 4550000530	S. CERAMIC S. TANTALUM	C1608 JB 1H 102K-T-A TESVA 1V 104M1-8L
C148	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C149	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C150	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C151	4030008470	S. CERAMIC	C1608 JB 1H 272K-T-A
C153	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A
C154 C155	4030006710 4030006860	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 JB 1H 102K-T-A
C156	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C157	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C158	4510005750	S. ELECTROLYTIC	ECEV1EA220P
C159	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C160 C161	4030006710 4030006850	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 JB 1H 471K-T-A
C162	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C163	4030006910	S. CERAMIC	C1608 CH 1H 0R5C-T-A
			(#01, #02, #07, #08, #10,
0400	1000000000	0.0554440	#12, #14-#18)
C166 C167	4030006850 4550003240	S. CERAMIC S. TANTALUM	C1608 JB 1H 471K-T-A TEMSVB 1E 335M-12L
C168	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A
C169	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C170	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C171	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C172	4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C173 C174	4030006860 4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-1-A
C175	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C176	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C177	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C178	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C179 C180	4030006710 4030006710	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 SL 1H 470J-T-A
C181	4030006710	S. CERAMIC	C1608 JB 1H 102K-T-A
C182	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C183	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C184	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C185 C186	4030006710 4030006710	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 SL 1H 470J-T-A
C187	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
لــــــــــــــــــــــــــــــــــــــ			

REF. NO.	ORDER NO.		DESCRIPTION
C188	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C189	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C190	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C191	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C192	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C193	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C194	4030006850 4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 471K-T-A
C195 C196	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A C1608 SL 1H 470J-T-A
C197	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C198	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C199	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C200	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C201	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C202 C203	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A C1608 SL 1H 220J-T-A
C203	4030006660 4030006660	S. CERAMIC S. CERAMIC	C1608 SL 1H 220J-T-A
C205	4030006660	S. CERAMIC	C1608 SL 1H 220J-T-A
C206	4030006660	S. CERAMIC	C1608 SL 1H 220J-T-A
C207	4030006660	S. CERAMIC	C1608 SL 1H 220J-T-A
C208	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
		-	(#01, #02, #07, #08, #10,
			#12, #14-#18)
C209	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
			(#01, #02, #07, #08, #10, #12, #14-#18)
C210	4030006570	S. CERAMIC	C1608 SL 1H 060D-T-A
0210	4000000370	O. OLITAMIO	(#01, #02, #07, #08, #10,
			#12, #14-#18)
RL1	6330000070	RELAY	FBR21D12-P
J3	6450000110	CONNECTOR	HSJ0836-01-010 [EXT SP]
J4	6450000110	CONNECTOR	HSJ1102-01-540 [MIC]
J5	6450001080	CONNECTOR	HEC3800-01-010
			[DC IN 13.8V]
J6	6510007120	CONNECTOR	TNC-R106 [ANT]
W27	7120000380	JUMPER	JPW 01 R-01
W28	7120000380	JUMPER	JPW 01 R-01
W29	7120000380	JUMPER	JPW 01 R-01
W30	7030003860	S. JUMPER	ERJ3GE JPW V
W31	7030003860	S. JUMPER	ERJ3GE JPW V
			(#03-#06, #09, #11, #13)
W32	7030003860	S. JUMPER	ERJ3GE JPW V
W33	7120000380	JUMPER	(#03-#06, #09, #11, #13) JPW 01 R-01
VV33	7120000380	JUMPEN	(#01, #02, #07, #08, #10,
			#12, #14-#18)
W34	7120000380	JUMPER	JPW 01 R-01
			(#01, #02, #07, #08, #10,
			#12, #14-#18)
EP1	0910034144	РСВ	B 3407D (RF)
EP2	6910034144	BEAD	DL 2OP 2.6-3-1,2H
	30.000070	= -	(#01, #02, #07, #08, #10,
			#12, #14-#18)
EP3	6910000970	BEAD	DL 2OP 2.6-3-1.2H
			(#01, #02, #07, #08, #10,
			#12, #14-#18)
EP4	6910000970	BEAD	DL 2OP 2.6-3-1.2H
			(#01, #02, #07, #08, #10, #12, #14-#18)
			स 14, स 17 स 10)
			S = Surface mount

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153000371 S. TRANSISTOR 2SC3356 R25-T2B (#03-#09, #11, #16) 1530002620 S. TRANSISTOR 2SC3585 R44-T2B (#01, #02, #10, #17, #18) S. TRANSISTOR 2SC3585 R44-T2B (#01, #02, #10, #17, #18) S. TRANSISTOR 2SC3585 R44-T2B 2SC3585 R44-T2B S. TRANSISTOR 2SC3585 R44-T2B S. TRANSISTOR 2SC3585 R44-T2B S. TRANSISTOR 2SC3585 R44-T2B S. VARICAP MA363B (TX) T720000320 S. VARICAP T32-T8-V T720000320 S. VARICAP T32-T8-V T720000320 S. VARICAP T32-T8-V T720000320 S. VARICAP T32-T8-V T720000320 S. COIL LQH 3N 1R0M L2 620000140 S. COIL LQH 3N 1R0M L3 6200000140 S. COIL LQN 2A 10NM L4 6200000100 S. COIL LQN 2A 10NM L5 6200001260 S. COIL LQN 2A 22NM L6 6200001260 S. COIL LQN 2A 188M-18M-18M-18M-18M-18M-18M-18M-18M-18M	‡13, #15, ; ;12, #14, ; ; ; T
1530002620 S. TRANSISTOR 2SC3585 R44-T2B (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, # #17, #18) (#01, #02, #10, #10, #102, #10, #102, #10, #102, #10, #102, #10, #102, #10, #102, #10, #102, #10, #102, #10, #102, #10, #102, #10, #102, #102, #102, #102, #102, #102, #102, #102, #102, #102, #102, #102, #102, #102, #102, #102,	‡13, #15, ; ;12, #14, ; ; ; T
1530002620 S. TRANSISTOR 2SC3585 R44-T2B (#01, #02, #10, # #17, #18) S. TRANSISTOR 2SC3585 R44-T2B 2SC3585 R44-T2B S. TRANSISTOR 2SC3585 R44-T2B S. VARICAP MA363B (TX) S. VARICAP 1732-T8-V S. COIL LQH 3N 1R0M L2 620000140 S. COIL LQH 3N 1R0M L3 6200000720 S. COIL LQN 2A 10NM L5 6200001260 S. COIL LQN 2A 22NM L6 6200001260 S. COIL LQN 2A 22NM L8 6200001260 S. COIL LQN 2A 10NM L9 6200001260 S. COIL LQN 2A 10NM HF2012A 1R8M-17, #18 H17, #18 H17, #18	†12, #14, † † †
C2	T T
1530002620	T T
D2	T T
D1	T T
D1	T T
D2	T
D2	T
D2	T
D4	T
D5	T
L1 620000140 S. COIL LQH 3N 1R0M L2 6200000140 S. COIL LQH 3N 1R0M L3 6200000720 S. COIL LQN 2A 10NM L4 6200000100 S. COIL LQN 2A 22NM L5 6200001260 S. COIL LQN 2A 22NM L6 6200001260 S. COIL LQN 2A 22NM L7 6200001260 S. COIL MLF2012A 1R8M- L8 620000720 S. COIL MLF2012A 1R8M- L9 6200001260 S. COIL LQN 2A 10NM L9 6200001260 S. COIL LQN 2A 10NM (#01, #02, #10, # #17, #18) R1 7030003680 S. RESISTOR ERJ3GEYJ 104 V (#01, #02, #10, # #17, #18)	T
L2 6200000140 S. COIL LQH 3N 1R0M L3 6200000720 S. COIL LQN 2A 10NM L4 6200000100 S. COIL LQN 2A 22NM L5 6200001260 S. COIL LQN 2A 22NM L6 6200001260 S. COIL LQN 2A 22NM L7 6200001260 S. COIL MLF2012A 1R8M- L8 620000720 S. COIL MLF2012A 1R8M- L9 6200001260 S. COIL LQN 2A 10NM (#01, #02, #10, # #17, #18) R1 7030003680 S. RESISTOR ERJ3GEYJ 104 V (#01, #02, #10, # #17, #18)	T
L2 6200000140 S. COIL LQH 3N 1R0M L3 6200000720 S. COIL LQN 2A 10NM L4 6200000100 S. COIL LQN 2A 22NM L5 6200001260 S. COIL LQN 2A 22NM L6 6200001260 S. COIL LQN 2A 22NM L7 6200001260 S. COIL MLF2012A 1R8M- L8 620000720 S. COIL MLF2012A 1R8M- L9 6200001260 S. COIL LQN 2A 10NM (#01, #02, #10, # #17, #18) R1 7030003680 S. RESISTOR ERJ3GEYJ 104 V (#01, #02, #10, # #17, #18)	T
L2 6200000140 S. COIL LQH 3N 1R0M L3 6200000720 S. COIL LQN 2A 10NM L4 6200000100 S. COIL LQN 2A 22NM L5 6200001260 S. COIL LQN 2A 22NM L6 6200001260 S. COIL LQN 2A 22NM L7 6200001260 S. COIL MLF2012A 1R8M- L8 620000720 S. COIL MLF2012A 1R8M- L9 6200001260 S. COIL LQN 2A 10NM (#01, #02, #10, # #17, #18) R1 7030003680 S. RESISTOR ERJ3GEYJ 104 V (#01, #02, #10, # #17, #18)	T
L3	T
L5 6200000100 S. COIL LQN 2A 22NM 6200001260 S. COIL MLF2012A 1R8M-6200001260 S. COIL MLF2012A 1R8M-6200000720 S. COIL LQN 2A 10NM 6200001260 S. COIL MLF2012A 1R8M-(#01, #02, #10, ##17, #18) R1 7030003680 S. RESISTOR ERJ3GEYJ 104 V (#01, #02, #10, ##17, #18)	T
L6 6200001260 S. COIL MLF2012A 1R8M- 6200001260 S. COIL MLF2012A 1R8M- L8 6200000720 S. COIL LQN 2A 10NM L9 6200001260 S. COIL MLF2012A 1R8M- (#01, #02, #10, # #17, #18) R1 7030003680 S. RESISTOR ERJ3GEYJ 104 V (#01, #02, #10, # #17, #18)	T
L7 6200001260 S. COIL MLF2012A 1R8M- L8 6200000720 S. COIL LQN 2A 10NM L9 6200001260 S. COIL MLF2012A 1R8M- (#01, #02, #10, # #17, #18) R1 7030003680 S. RESISTOR ERJ3GEYJ 104 V (#01, #02, #10, # #17, #18)	T
L8 6200000720 S. COIL LQN 2A 10NM L9 6200001260 S. COIL MLF2012A 1R8M- (#01, #02, #10, # #17, #18) R1 7030003680 S. RESISTOR ERJ3GEYJ 104 V (#01, #02, #10, # #17, #18)	
L9 6200001260 S. COIL MLF2012A 1R8M- (#01, #02, #10, # #17, #18) R1 7030003680 S. RESISTOR ERJ3GEYJ 104 V (#01, #02, #10, # #17, #18)	, I
(#01, #02, #10, # #17, #18) R1 7030003680 S. RESISTOR ERJ3GEYJ 104 V (#01, #02, #10, # #17, #18)	
R1 7030003680 S. RESISTOR ERJ3GEYJ 104 V (#01, #02, #10, ##17, #18)	
(#01, #02, #10, # #17, #18)	
(#01, #02, #10, # #17, #18)	
(#01, #02, #10, # #17, #18)	(400.1.0)
#17, #18)	·
	12, # 14,
1	(220 kΩ)
(#07)	` "
7030003770 S. RESISTOR ERJ3GEYJ 564 V	(560 kΩ)
(#08)	(000 1.0)
7030003780 S. RESISTOR ERJ3GEYJ 684 V (#03-#06, #09, #	
#15, #16)	. 11, #10,
R2 7030003720 S. RESISTOR ERJ3GEYJ 224 V	(220 kΩ)
R4 7030003240 S. RESISTOR ERJ3GEYJ 220 V	(22 Ω)
R5 7030003320 S. RESISTOR ERJ3GEYJ 101 V	
R6 7030003320 S. RESISTOR ERJ3GEYJ 101 V	
R8	` ' 1
R10 7030003510 S. RESISTOR ERJ3GEYJ 392 V	
R11 7030003250 S. RESISTOR ERJ3GEYJ 270 V	
(#01, #02, #10, #	12, #14,
#17, #18)	
7030004040 S. RESISTOR ERJ3GEYJ 4R7 V (#03-#09, #11, #	, , ,
[13, #15,
R12 7030003520 S. RESISTOR ERJ3GEYJ 472 V	(4.7 kΩ)
R13 7030003370 S. RESISTOR ERJ3GEYJ 271 V	
(#01-#06#,09-#	· ·
7030003380 S. RESISTOR ERJ3GEYJ 331 V	(330 Ω)
(#07, #08) R14 7030003550 S. RESISTOR ERJ3GEYJ 822 V	(8.2 kO)
R15 7030003410 S. RESISTOR ERJ3GEYJ 561 V	
R16 7030003550 S. RESISTOR ERJ3GEYJ 822 V	
R17 7030003410 S. RESISTOR ERJ3GEYJ 561 V	(560 Ω)
R18 7030003290 S. RESISTOR ERJ3GEYJ 560 V	
R19 7030003230 S. RESISTOR ERJ3GEYJ 180 V	
R20	
R21	
	l
C1 4030006850 S. CERAMIC C1608 JB 1H 471	K-T-A

REF.	ORDER		
NO.	NO.		DESCRIPTION
C2	4030006920	S. CERAMIC	C1608 CH 1H 010C-T-A (#01, #02, #07, #10, #12, #14, #17, #18)
	4030006930	S. CERAMIC	C1608 CH 1H 020C-T-A (#03-#06, #08, #09, #11, #13, #15, #16)
C3	4550003220	S. TANTALUM	TEMSVA 1E 105M-8L
C4	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C5 C6	4030006860 4550003220	S. CERAMIC S. TANTALUM	C1608 JB 1H 102K-T-A TEMSVA 1E 105M-8L
C7	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C8	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C9	4030008680	S. CERAMIC	C2012 JF 1C 105Z-T-A
C10	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C11 C12	4030006860 4030006850	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 471K-T-A
C12	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C14	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C16	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C17	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C18	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C19 C20	4030006710 4030006850	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 JB 1H 471K-T-A
G21	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C22	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C23	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C24	4030007090	S. CERAMIC	C1608 CH 1H 470J-T-A
C25	4030006960 4030006940	S. CERAMIC S. CERAMIC	C1608 CH 1H 050C-T-A C1608 CH 1H 030C-T-A
C26 C27	4030006940	S. CERAMIC	C1608 CH 1H 030C-T-A
C28	4030009470	S. CERAMIC	C1608 CH 1H R75C-T-A
C29	4030006930	S. CERAMIC	C1608 CH 1H 020C-T-A
C30	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C31	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C32 C33	4030006950 4030006850	S. CERAMIC S. CERAMIC	C1608 CH 1H 040C-T-A C1608 JB 1H 471K-T-A
C34	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C35	4030006920	S. CERAMIC	C1608 CH 1H 010C-T-A
C36	4030006920	S. CERAMIC	C1608 CH 1H 010C-T-A
C37 C38	4030006860 4030006940	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A C1608 CH 1H 030C-T-A
C39	4030007050	S. CERAMIC	C1608 CH 1H 220J-T-A
C40	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C42	4030006930	S. CERAMIC	C1608 CH 1H 020C-T-A
C43	4030006920	S. CERAMIC	C1608 CH 1H 010C-T-A (#03-#09, #11, #13, #15, #16)
	4030006930	S. CERAMIC	C1608 CH 1H 020C-T-A (#01, #02, #10, #12, #14, #17, #18)
J1	6910006540	CONNECTOR	IMSA-9230B-1-03Z030-T
J2	6910006540	CONNECTOR	IMSA-9230B-1-032030-T
J3	6910006530	CONNECTOR	IMSA-9230B-1-02Z030-T
J4	6910006530	CONNECTOR	IMSA-9230B-1-02Z030-T
J5	6910006530	CONNECTOR	IMSA-9230B-1-02Z030-T
W1	703000010	S. JUMPER	MCR10EZHJ JPW (000) (#03-#09, #11, #13, #15, #16)
EP1	0910033993	PCB	B 3406C (TVCO) (#01-#06, #09-#18)
	0910040143	PCB	B 3406C (TVCO) (#07, #08)

[TPLL BOARD]

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1140001890 S. IC MB1502PF-G-BND	NO.	NO.		
(#01, #02, #10, #12, #14, #17, #18)		1	1	
1510000730 S. TRANSISTOR 2SA1037K WT T147 R S. TRANSISTOR 2SC2412K WT T147	Q1	1560000360	S. FET	(#01, #02, #10, #12, #14,
D2	1	1	-	2SA1037K WT T147 R
R1	l			• •
R2	L1	6200000140	S. COIL	LQH 3N 1R0M
R3	R1	7030003540	S. RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)
(#01, #02, #10, #12, #14, #17, #18) R5		1		, ,
(#01, #02, #10, #12, #14, #17, #18)	no	7030003360	3. NE31310N	(#01, #02, #10, #12, #14,
R5	R4	7030003440	S. RESISTOR	(#01, #02, #10, #12, #14,
(#01, #02, #10, #12, #14, #17, #18) R6 7030003620 S. RESISTOR ERJ3GEYJ 333 V (33 kΩ) R7030003680 S. RESISTOR ERJ3GEYJ 104 V (100 kΩ) (#03-#09, #11, #13, #15, #16) 7030003720 S. RESISTOR ERJ3GEYJ 224 V (220 kΩ) (#01, #02, #10, #12, #14, #17, #18) R10 7030003550 S. RESISTOR ERJ3GEYJ 822 V (8.2 kΩ) R11 7030003560 S. RESISTOR ERJ3GEYJ 822 V (8.2 kΩ) R12 7030003640 S. RESISTOR ERJ3GEYJ 822 V (8.2 kΩ) R13 7030003600 S. RESISTOR ERJ3GEYJ 223 V (22 kΩ) R14 7030003240 S. RESISTOR ERJ3GEYJ 220 V (22 Ω) R15 7030003580 S. RESISTOR ERJ3GEYJ 220 V (22 Ω) R16 7030003580 S. RESISTOR ERJ3GEYJ 220 V (22 Ω) R17 7030003760 S. RESISTOR ERJ3GEYJ 353 V (15 kΩ) C1 4550000530 S. TANTALUM TESVA 1V 104M1-8L C2 4030006800 S. CERAMIC C1608 JF 1C 104Z-T-A C3 4550003230 S. TANTALUM TEMSVB2 1E 225M-8L C4 4030006870 S. CERAMIC C1608 JB 1H 102K-T-A (#01, #02, #10, #12, #14, #17, #18) C6 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C8 4550003100 S. TANTALUM TEMSVB 1A 106M-12L C9 4030006870 S. CERAMIC C1608 JB 1H 471K-T-A C10 4030006870 S. CERAMIC C1608 JB 1H 471K-T-A C11 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C12 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C13 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C14 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C15 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C16 4030006710 S. CERAMIC C1608 JB 1H 471K-T-A C16 4030006710 S. CERAMIC C1608 JB 1H 471K-T-A C16 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C19 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C19 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A	R5	7030003760	S. RESISTOR	ERJ3GEYJ 474 V (470 kΩ) (#03-#09, #11, #13, #15,
R8		7030003770	S. RESISTOR	(#01, #02, #10, #12, #14, #17, #18)
T030003720 S. RESISTOR ERJ3GEYJ 224 V (220 kΩ) (#01, #02, #10, #12, #14, #17, #18)				ERJ3GEYJ 104 V (100 kΩ) (#03-#09, #11, #13, #15,
R11 7030003550 S. RESISTOR ERJ3GEYJ 822 V (8.2 kΩ) R12 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R13 7030003600 S. RESISTOR ERJ3GEYJ 223 V (22 kΩ) R14 7030003240 S. RESISTOR ERJ3GEYJ 220 V (22 Ω) R15 7030003430 S. RESISTOR ERJ3GEYJ 821 V (820 Ω) R16 7030003580 S. RESISTOR ERJ3GEYJ 153 V (15 kΩ) R17 7030003760 S. RESISTOR ERJ3GEYJ 153 V (15 kΩ) R17 7030003760 S. CERAMIC C1608 JF 1C 104Z-T-A C3 4550003230 S. TANTALUM TEMSVB2 1E 225M-8L C4 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C7 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C8 4550003100 S. TANTALUM TEMSVB 1A 106M-12L C9 4030006710 S. CERAMIC C1608 JB 1H 470J-T-A C10 4030006850 S. CERAMIC C1608 SL 1H 470J-T-A C12 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A <t< td=""><td></td><td>7030003720</td><td>S. RESISTOR</td><td>ERJ3GEYJ 224 V (220 kΩ) (#01, #02, #10, #12, #14,</td></t<>		7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ) (#01, #02, #10, #12, #14,
R12 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R13 7030003600 S. RESISTOR ERJ3GEYJ 223 V (22 kΩ) R14 7030003240 S. RESISTOR ERJ3GEYJ 220 V (22 Ω) R15 7030003430 S. RESISTOR ERJ3GEYJ 821 V (820 Ω) R16 7030003580 S. RESISTOR ERJ3GEYJ 153 V (15 kΩ) R17 7030003760 S. RESISTOR ERJ3GEYJ 153 V (470 kΩ) C1 4550000530 S. TANTALUM TESVA 1V 104M1-8L C2 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C3 4550003230 S. TANTALUM TEMSVB2 1E 225M-8L C4 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C7 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C8 4550003100 S. TANTALUM TEMSVB 1A 106M-12L C9 4030006710 S. CERAMIC C1608 JB 1H 222K-T-A C10 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C11 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C12 </td <td></td> <td></td> <td></td> <td>, ,</td>				, ,
R13 703003600 S. RESISTOR ERJ3GEYJ 223 V (22 kΩ) R14 7030003240 S. RESISTOR ERJ3GEYJ 220 V (22 Ω) R15 7030003430 S. RESISTOR ERJ3GEYJ 821 V (820 Ω) R16 7030003580 S. RESISTOR ERJ3GEYJ 153 V (15 kΩ) R17 7030003760 S. RESISTOR ERJ3GEYJ 153 V (15 kΩ) C1 4550000370 S. TANTALUM TESVA 1V 104M1-8L C2 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C3 4550003230 S. TANTALUM TEMSVB2 1E 225M-8L C4 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C7 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C8 4550003100 S. TANTALUM TEMSVB 1A 106M-12L C9 4030006710 S. CERAMIC C1608 JB 1H 222K-T-A C10 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C11 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C12 4030006860 S. CERAMIC C1608 JB 1H 471K-T-A C13	1		i .	•
R15 7030003430 S. RESISTOR ERJ3GEYJ 821 V (820 Ω) R16 7030003580 S. RESISTOR ERJ3GEYJ 153 V (15 kΩ) R17 7030003760 S. RESISTOR ERJ3GEYJ 474 V (470 kΩ) C1 4550000330 S. TANTALUM TESVA 1V 104M1-8L C2 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C3 4550003230 S. TANTALUM TEMSVB2 1E 225M-8L C4 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C7 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C8 4550003100 S. TANTALUM TEMSVB 1A 106M-12L C9 4030006710 S. CERAMIC C1608 JB 1H 222K-T-A C10 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C11 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C12 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C13 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C14 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C15			ł	, ,
R16 7030003580 S. RESISTOR ERJ3GEYJ 153 V (15 kΩ) R17 7030003760 S. RESISTOR ERJ3GEYJ 474 V (470 kΩ) C1 45500003760 S. TANTALUM TESVA 1V 104M1-8L C2 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C3 4550003230 S. TANTALUM TEMSVB2 1E 225M-8L C4 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C7 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C8 4550003100 S. TANTALUM TEMSVB 1A 106M-12L C9 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C10 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C11 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C12 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C13 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C16 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C16 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C16				
R17 7030003760 S. RESISTOR ERJ3GEYJ 474 V (470 kΩ) C1 4550000530 S. TANTALUM TESVA 1V 104M1-8L C2 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C3 4550003230 S. TANTALUM TEMSVB2 1E 225M-8L C4 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C6 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C7 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C8 4550003100 S. TANTALUM TEMSVB 1A 106M-12L C9 4030006710 S. CERAMIC C1608 JB 1H 470J-T-A C10 4030006850 S. CERAMIC C1608 SL 1H 470J-T-A C11 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C12 4030006850 S. CERAMIC C1608 SL 1H 470J-T-A C15 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C16 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C16 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C16 <td< td=""><td></td><td></td><td></td><td></td></td<>				
C2 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C3 4550003230 S. TANTALUM TEMSVB2 1E 225M-8L C4 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A (#01, #02, #10, #12, #14, #17, #18) C6 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C7 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C8 4550003100 S. TANTALUM TEMSVB 1A 106M-12L C9 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C10 4030006850 S. CERAMIC C1608 JB 1H 02K-T-A C11 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C12 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C13 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C14 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C15 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C16 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C17 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C18 4030006710 S. CERAMIC C1608 JB 1H 471K-T-A C19 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C19 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C20 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A			S. RESISTOR	ERJ3GEYJ 474 V (470 kΩ)
C3 4550003230 S. TANTALUM TEMSVB2 1E 225M-8L C4 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A (#01, #02, #10, #12, #14, #17, #18) C6 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C7 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C8 4550003100 S. TANTALUM TEMSVB 1A 106M-12L C9 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C10 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C11 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C12 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C13 4030006850 S. CERAMIC C1608 JB 1H 470J-T-A C14 4030006850 S. CERAMIC C1608 JB 1H 470J-T-A C15 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C16 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C17 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C18 4030006710 S. CERAMIC C1608 JB 1H 471K-T-A C19 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C19 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C20 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A	C1	4550000530	S. TANTALUM	
C4 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A (#01, #02, #10, #12, #14, #17, #18) C6 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C7 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C8 4550003100 S. TANTALUM TEMSVB 1A 106M-12L C9 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C10 4030006850 S. CERAMIC C1608 SL 1H 470J-T-A C11 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C12 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C13 4030006850 S. CERAMIC C1608 SL 1H 470J-T-A C14 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C15 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C16 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C16 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C17 4030008630 S. CERAMIC C1608 JB 1H 471K-T-A C17 4030008630 S. CERAMIC C1608 JB 1H 470J-T-A C18 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C19 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C20 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A			l	
C6 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C7 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C8 4550003100 S. TANTALUM TEMSVB 1A 106M-12L C9 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C10 4030006850 S. CERAMIC C1608 SL 1H 470J-T-A C11 4030006860 S. CERAMIC C1608 JB 1H 471K-T-A C12 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C13 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C14 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C15 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C16 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C17 4030008630 S. CERAMIC C1608 JB 1H 102K-T-A C18 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C19 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C20 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A	1			C1608 JB 1H 102K-T-A (#01, #02, #10, #12, #14,
C8 4550003100 S. TANTALUM TEMSVB 1A 106M-12L C9 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C10 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C11 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C12 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C13 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C14 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C15 4030006860 S. CERAMIC C1608 JB 1H 471K-T-A C16 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A C17 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C17 4030008630 S. CERAMIC C1608 JB 1H 471K-T-A C18 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C19 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A C20 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A	C6	4030006870	S. CERAMIC	
C9	l.			
C10				
C12	C10			C1608 SL 1H 470J-T-A
C13	1			
C14				
C16	C14	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C17				
C18	9			
C20 4030006710 S. CERAMIC C1608 SL 1H 470J-T-A	C18			
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[TPLL BOARD]

REF. NO.	ORDER NO.	I	DESCRIPTION
C23 C24 C25 C26	4030006850 4030006860 4030006710 4030006710	S. CERAMIC S. CERAMIC S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A C1608 SL 1H 470J-T-A
J6 J7	6910003810 6910003890	CONNECTOR CONNECTOR	
W1 W2 W3 W4 W5 W6	7030003860 7030003860 7030003860 7030003860 7030003860 7030003860	S. JUMPER S. JUMPER S. JUMPER S. JUMPER S. JUMPER S. JUMPER	ERJ3GE JPW V ERJ3GE JPW V ERJ3GE JPW V
EP1	0910033933	РСВ	B 3405C (TPLL)

[RVCO BOARD]

REF. NO.	ORDER NO.	D	ESCRIPTION
Q1	1530000371	S. TRANSISTOR	2SC3356 R25-T2B
Q2	1530000372	S. TRANSISTOR	2SC3356 R24-T2B
Q3	1530002620	S. TRANSISTOR	2SC3585 R44-T2B
D1	1720000310	S. VARICAP	1SV128 (TE85R)
D2	1720000310	S. VARICAP	1SV128 (TE85R)
D3	1790000540	S. VARICAP	MA338 (TX) (#01-#06, #09-#18)
D4	1790000460	S. DIODE	MA334B (TX) (#08)
- '	1790000540	S. VARICAP	MA338 (TX)
			(#01-#07, #09-#18)
L1	6200000090	S. COIL	LQN 2A 18NM
[2	6200000140	S. COIL	LQH 3N 1R0M
L3	6200000140	S. COIL	LQH 3N 1R0M
L4	6200000140	S. COIL	LQH 3N 1R0M
L5	6200001260	S. COIL	MLF2012A 1R8M-T
L6	6200001520	S. COIL	MLF2012D R82K-T
L7	6200000110	S. COIL	LQN 2A 33NM
L8	6200000110	S. COIL	LQN 2A 33NM
R ₁	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R2	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R4	7030003240	S. RESISTOR	ERJ3GEYJ 220 V (22 Ω) (#07)
	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω) (#08)
	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω) (#01-#06, #09-#18)
R5	7030003510	S. RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)
R7	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) (#01-#06, #08-#18)
	7030003530	S. RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ) (#07)

[RVCO BOARD]

	T	1	
REF. NO.	ORDER NO.	I	DESCRIPTION
R8	7030003350	S. RESISTOR	ERJ3GEYJ 181 V (180 Ω) (#07, #08)
	7030003370	S. RESISTOR	ERJ3GEYJ 271 V (270 Ω) (#01, #02, #10, #12, #14,
	7030003380	S. RESISTOR	#17, #18) ERJ3GEYJ 331 V (330 Ω)
			(#03-#06, #09, #11, #13, #15, #16)
R9 R10	7030003320 7030003510	S. RESISTOR S. RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 392 V (3.9 kΩ)
R11	7030003550	S. RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ)
R12	7030003430	S. RESISTOR	ERJ3GEYJ 821 V (820 Ω)
R13	7030003320 7030003510	S. RESISTOR S. RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 392 V (3.9 kΩ)
R15	7030003510	S. RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ)
R16	7030003430	S. RESISTOR	ERJ3GEYJ 821 V (820 Ω)
R18	7030003290	S. RESISTOR	ERJ3GEYJ 560 V (56 Ω)
R19 R20	7030003290	S. RESISTOR S. RESISTOR	ERJ3GEYJ 560 V (56 Ω) ERJ3GEYJ 392 V (3.9 kΩ)
R21	7030003310	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
	4030006950	S CEDAMIC	C1608 ID 1U 471KTA
C1 C2	4030006850 4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 471K-T-A C1608 JB 1H 102K-T-A
C3	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C4	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C5	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C6 C7	4030006710 4030006850	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 JB 1H 471K-T-A
C8	4550003100	S. TANTALUM	TEMSVB 1A 106M-12L
C9	4550003100	S. TANTALUM	TEMSVB 1A 106M-12L
C10	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C11 C12	4030006710 4030006860	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 JB 1H 102K-T-A
C13	4030007010	S. CERAMIC	C1608 CH 1H 100D-T-A (#07, #08)
	4030007020	S. CERAMIC	C1608 CH 1H 120J-T-A (#03-#06, #09, #11, #13,
	4030007030	S. CERAMIC	#15, #16) C1608 CH 1H 150J-T-A
	1000007000	Q. 02. 0. 0.00	(#01, #02, #10, #12, #14, #17, #18)
C14	4030007030	S. CERAMIC	C1608 CH 1H 150J-T-A
C15	4030007130 4030006940	S. CERAMIC S. CERAMIC	C1608 CH 1H 101J-T-A C1608 CH 1H 030C-T-A
C16	4030006940	S. CERAMIC	(#03-#06, #09, #11, #13, #15, #16)
	4030006970	S. CERAMIC	C1608 CH 1H 060D-T-A
1			(#01, #02, #07, #08, #10, #12, #14, #17, #18)
C17	4030007040	S. CERAMIC	C1608 CH 1H 180J-T-A
C18	4030007030	S. CERAMIC	C1608 CH 1H 150J-T-A
C19 C20	4030006850 4030006710	S. CERAMIC S. CERAMIC	C1608 JB 1H 471K-T-A C1608 SL 1H 470J-T-A
C21	4550000710	S. TANTALUM	TESVA 1C 105M1-8L
C22	4030009540	S. CERAMIC	C1608 CH 1H 1R5B-T-A
C23	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C24 C25	4030006710 4030009540	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 CH 1H 1R5B-T-A
C26	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C27	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C28	4550000460	S. TANTALUM	TESVA 1C 105M1-8L
C29 C30	4030006850 4030006710	S. CERAMIC S. CERAMIC	C1608 JB 1H 471K-T-A C1608 SL 1H 470J-T-A
C31	4030006970	S. CERAMIC	C1608 CH 1H 060D-T-A
C32	4030006580	S. CERAMIC	C1608-SL 1H 070D-T-A
C33 C34	4030006580 4030006920	S. CERAMIC S. CERAMIC	C1608 SL 1H 070D-T-A C1608 CH 1H 010C-T-A
C34	4030006920	S. CERAMIC	C1608 SL 1H 010C-T-A
C36	4030006980	S. CERAMIC	C1608 CH 1H 070D-T-A
			(#07, #08)

[RVCO BOARD]

REF. NO.	ORDER NO.	C	DESCRIPTION
J1 J2 J3 J4	6910006530 6910006540 6910006530 6910006530	CONNECTOR CONNECTOR CONNECTOR CONNECTOR	IMSA-9230B-1-02Z030-T
W1	7030003860	S. JUMPER	ERJ3GE JPW V
EP1	0910033772 0910038071	PCB	B 3404B (RVCO) (#01-#06, #09-#18) B 3765A (RVCO) (#07, #08)

[RPLL BOARD]

_	1		
REF. NO.	ORDER NO.	D	ESCRIPTION
IC1	1110003010	s. ic	μPC4250G2-T
IC2	1140002540	s. ic	MB1505PF-G-BND
IC3	1130004200	S. IC	TC4S66F (TE85R)
			,
Q1	1560000360	S. FET	2SK209-Y (TE85R)
Q2	1530002850	S. TRANSISTOR	
Q3	1560000360	S. FET	2SK209-Y (TE85R)
Q5	1590000910	S. TRANSISTOR	IMZ2 T108
L1	6200001260	S. COIL	MLF2012A 1R8M-T
L2	6200000140	S. COIL	LQH 3N 1R0M
R1	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R2	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R4	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R5	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R6	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R7	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R8	7030003510	S. RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)
R9	7030003450	S. RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
R10	7030003410	S. RESISTOR	ERJ3GEYJ 561 V (560 Ω)
R11	7030003690	S. RESISTOR	ERJ3GEYJ 124 V (120 kΩ)
	7030003720	S. RESISTOR	(#07, #08) ERJ3GEYJ 224 V (220 kΩ)
	7030003720	5. NESISTON	(#01-#06, #09-#18)
R12	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R14	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R15	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R16	7030003200	S. RESISTOR	ERJ3GEYJ 100 V (10 Ω)
R17	7030003200	S. RESISTOR	ERJ3GEYJ 100 V (10 Ω)
R18	7030003200	S. RESISTOR	ERJ3GEYJ 100 V (10 Ω)
R19	7030003200	S. RESISTOR	ERJ3GEYJ 100 V (10 Ω)
R20	7030003610	S. RESISTOR	ERJ3GEYJ 273 V (27 kΩ)
R21	7030003570	S. RESISTOR	ERJ3GEYJ 123 V (12 kΩ)
R22	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R23	7030003570	S. RESISTOR	ERJ3GEYJ 123 V (12 kΩ)
R24	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R25	7030003410	S. RESISTOR	ERJ3GEYJ 561 V (560 Ω)
R27	7030003840	S. RESISTOR	ERJ3GEYJ 225 V (2.2 MΩ)
			S -Surface mount

[RPLL BOARD]

· · · ·	POWNDI		
REF. NO.	ORDER NO.	Į.	DESCRIPTION
R28	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R29	7030003540	S. RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)

C1	4550000270	S. TANTALUM	TESVA 1E 474M1-8L
C2	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C3	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C4	4030006900 4550000270	S. CERAMIC S. TANTALUM	C1608 JB 1E 103K-T-A TESVA 1E 474M1-8L
C5 C6	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C8	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C9	4030008430	S. CERAMIC	C1608 JF 1H 223Z-T-A
C10	4550003220	S. TANTALUM	TEMSVA 1E 105M-8L
C11	4550003220	S. TANTALUM	TEMSVA 1E 105M-8L
C12	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C14	4550000540	S. TANTALUM	TESVA 1V 154M1-8L
C16	4550003100	S. TANTALUM	TEMSVB 1A 106M-12L
C17	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C18	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C19	4030006750	S. CERAMIC	C1608 SL 1H 101J-T-A
C20	4030006750	S. CERAMIC	C1608 SL 1H 101J-T-A
C21	4030006750	S. CERAMIC	C1608 SL 1H 101J-T-A
C22	4030006750	S. CERAMIC	C1608 SL 1H 101J-T-A
C23	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 471K-T-A
	1	i	C1608 JB 1H 102K-T-A
	1		C1608 SL 1H 470J-T-A
			C2012 JB 1H 223K-T-A
	4550003030	S. TANTALUM	TEMSVA 0J 475M-8L
J1	6910003810	CONNECTOR	IMSA-9230B-1-02Z003-T
J2	6910003840	CONNECTOR	IMSA-9230B-1-05Z003-T
J3	6910003820	CONNECTOR	IMSA-9230B-1-03Z003-T
W2	7030003860	S. JUMPER	ERJ3GE JPW V
W3	7030003860	S. JUMPER	ERJ3GE JPW V
		-	
EP1	0910033813	РСВ	B 3403C (RPLL)
EP1	0910033813	РСВ	B 3403C (RPLL)
	J3 W2 W3	C25	C25

[DC-DC BOARD]

REF. NO.	ORDER NO.	DESCRIPTION	
IC1	1110002350	S. IC	BA6161F
D1	1750000040	S. DIODE	1SS190 (TE85R)
L1	6180001450	COIL	RFC S4 102K
R1	7030003450	S. RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
C1 C2	4550000410 4550000410	TANTALUM TANTALUM	DN 1V 4R7M DN 1V 4R7M

[DC-DC BOARD]

REF. NO.	ORDER NO.	C	DESCRIPTION
J1	6910005800	CONNECTOR	IMSA-9210B-1-03T
EP1	0910035100	PCB	B 3508 (DC-DC)
	**		
	:		

[BPF BOARD]

REF.	ORDER NO.		DESCRIPTION
IC1	6910005740	IC	CB424M1R
Q1	1580000360	S. FET	3SK177-T2B U73
Q2	1560000670	S. FET	2SK1771 (TE85R)
D1	1790000450	S. DIODE	MA862 (TX)
D2	1720000180	S. VARICAP	1SV164-T2B
D3	1720000180	S. VARICAP	1SV164-T2B
D4	1720000180	S. VARICAP	1SV164-T2B
D5	1720000180	S. VARICAP	1SV164-T2B
L1	6110001990	COIL	LA-223
L2	6110001990	COIL	LA-223
L3	6110001980	COIL	LA-222 (#07, #08)
	6110001990	COIL	LA-223
	0440004000	0011	(#01-#06, #09-#18)
L5	6110001980	COIL	LA-222 (#03-#09, #11, #13, #15,
			#16)
	6110001990	COIL	LA-223
	0170001000		(#01, #02, #10, #12, #14,
			#17, #18)
L6	6110001980	COIL	LA-222
			(#03-#09, #11, #13, #15,
			#16)
	6110001990	COIL	LA-223
•			(#01, #02, #10, #12, #14,
L7	6110001980	COIL	#17, #18) LA-222
L/	0110001980	COIL	(#03-#09, #11, #13, #15,
			#16)
	6110001990	COIL	LA-223
			(#01, #02, #10, #12, #14,
			#17, #18)
L8	6180001300	COIL	LAL 02NA 100K
L9	6150003150	COIL	LS-331
R1	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R2	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R3	7030003620	S. RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
R4	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R5	7030003370	S. RESISTOR	ERJ3GEYJ 271 V (270 Ω)
R6	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R7	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R8 Po	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ) ERJ3GEYJ 151 V (150 Ω)
R9 R10	7030003340 7030003320	S. RESISTOR S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
1110	, 000000020	0. NEGIOTON	E11000E10 101 V (100 12)

[BPF BOARD]

ORDER DESCRIPTION NO ERJ3GEYJ 123 V (12 kΩ) R11 7030003570 S. RESISTOR ERJ3GEYJ 183 V (18 kΩ) R12 7030003590 S. RESISTOR 7030003260 S. RESISTOR ERJ3GEYJ 330 V (33 Ω) R13 ERJ3GEYJ 220 V (22 Ω) R15 7030003240 S. RESISTOR 7030003520 S. RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R16 DD104 SL 040C 50V C1 4010000060 **CERAMIC** S. CERAMIC C1608 SL 1H 120J-T-A C2 4030006620 C4 4030006550 S. CERAMIC C1608 SL 1H 040C-T-A C1608 CH 1H 010C-T-A 4030006920 S. CERAMIC C6 (#03-#09, #11, #13, #15, #16) C1608 CH 1H 020C-T-A 4030006930 S. CERAMIC (#01, #02, #10, #12, #14, #17, #18) C7 4610001440 TRIMMER CV38A 0301E S. CERAMIC C1608 SL 1H 010C-T-A 4030006520 **C8** (#01, #02, #10, #12, #14, #17, #18) C1608 SL 1H 030C-T-A 4030006540 S. CERAMIC (#07, #08) 4030006540 C1608 SL 1H 030C-T-A C9 S. CERAMIC (#08)C1608 SL 1H 040C-T-A 4030006550 S. CERAMIC (#03-#06, #09, #11, #13, #15, #16) C1608 SL 1H 050C-T-A C9 4030006560 S. CERAMIC (#01, #02, #07, #10, #12, #14, #17, #18) C10 4030006930 S. CERAMIC C1608 CH 1H 020C-T-A (#08) C1608 CH 1H R75C-T-A 4030009470 S. CERAMIC (#01, #02, #10, #12, #14, #17, #18) 4030009540 S. CERAMIC C1608 CH 1H 1R5B-T-A (#03-#07, #09, #11, #13, #15, #16) C1608 JB 1H 471K-T-A C11 4030006850 S. CERAMIC C1608 JB 1H 102K-T-A S. CERAMIC C12 4030006860 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C13 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C14 S. CERAMIC C1608 JB 1H 471K-T-A C15 4030006850 C16 4610001440 TRIMMER CV38A 0301E C1608 JB 1H 102K-T-A 4030006860 S. CERAMIC C17 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C18 C1608 JB 1H 471K-T-A 4030006850 S. CERAMIC C19 C1608 JB 1H 471K-T-A C20 4030006850 S. CERAMIC S. CERAMIC C1608 JB 1H 102K-T-A C21 4030006860 C1608 SL 1H 020C-T-A 4030006530 S. CERAMIC C22 (#01, #02, #10, #12, #14, #17, #18) C1608 SL 1H 030C-T-A 4030006540 S. CERAMIC (#07, #08) C1608 SL 1H 040C-T-A 4030006550 S CERAMIC (#03-#06, #09, #11, #13, #15, #16) C23 S. CERAMIC C1608 JB 1H 471K-T-A 4030006850 4010000500 **CERAMIC** DD104 B 102K 50V C24 4030006540 S. CERAMIC C1608 SL 1H 030C-T-A C25 (#08)C1608 SL 1H 040C-T-A 4030006550 S. CERAMIC (#01-#07, #09-#18) C26 4030006910 S. CERAMIC C1608 CH 1H 0R5C-T-A (#01, #02, #10, #12, #14, #17, #18) C1608 CH 1H 010C-T-A 4030006920 S. CERAMIC (#03-#06, #09, #11, #13, #15, #16) 4030009470 C1608 CH 1H R75C-T-A S. CERAMIC (#07, #08)

[BPF BOARD]

	DOARD		
REF. NO.	ORDER NO.		DESCRIPTION
C27	4030009570	S. CERAMIC	C1608 CH 1H 0R3B-T-A
C28	4610001440	TRIMMER	CV38A 0301E
C29	4030006530	S. CERAMIC	C1608 SL 1H 020C-T-A
			(#01, #02, #10, #12, #14, #17, #18)
	4030006550	S. CERAMIC	C1608 SL 1H 040C-T-A
		0.02.0	(#08)
	4030006560	S. CERAMIC	C1608 SL 1H 050C-T-A
			(#07)
	4030006570	S. CERAMIC	C1608 SL 1H 060D-T-A (#03-#06, #09, #11, #13,
			#15, #16)
C30	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C31	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C32	4030006550	S. CERAMIC	C1608 SL 1H 040C-T-A
	4030006560	S. CERAMIC	(#08) C1608 SL 1H 050C-T-A
	1,000000000	0. 02, ,,	(#01, #02, #07, #10, #12,
			#14, #17, #18)
	4030006570	S. CERAMIC	C1608 SL 1H 060D-T-A
			(#03-#06, #09, #11, #13, #15, #16)
C33	4030006910	S. CERAMIC	C1608 CH 1H 0R5C-T-A
			(#01, #02, #10, #12, #14,
			#17, #18)
	4030009470	S. CERAMIC	C1608 CH 1H R75C-T-A
	4030009570	S. CERAMIC	(#08) C1608 CH 1H 0R3B-T-A
	4030009370	S. CERAWIO	(#03-#07, #09, #11, #13,
			#15, #16)
C34	4030006910	S. CERAMIC	C1608 CH 1H 0R5C-T-A
			(#03-#06, #09, #11, #13,
	4030006920	S. CERAMIC	#15, #16) C1608 CH 1H 010C-T-A
	4000000020	O. OLITAMIO	(#07)
	4030009570	S. CERAMIC	C1608 CH 1H 0R3B-T-A
			(#01, #02, #08, #10, #12,
005	4610001440	TRIMMER	#14, #17, #18) CV38A 0301E
C35 C36	4030006530	S. CERAMIC	C1608 SL 1H 020C-T-A
""			(#01, #02, #10, #12, #14,
			#17, #18)
	4030006550	S. CERAMIC	C1608 SL 1H 040C-T-A
	4030006560	S. CERAMIC	(#08) C1608 SL 1H 050C-T-A
	100000000	0. 02.1	(#07)
	4030006570	S. CERAMIC	C1608 SL 1H 060D-T-A
			(#03-#06, #09, #11, #13,
C37	4030006860	S. CERAMIC	#15, #16) C1608 JB 1H 102K-T-A
C38	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C39	4030006550	S. CERAMIC	C1608 SL 1H 040C-T-A
			(#08)
	4030006560	S. CERAMIC	C1608 SL 1H 050C-T-A (#01, #02, #07, #10, #12,
			#14, #17, #18)
1	4030006570	S. CERAMIC	C1608 SL 1H 060D-T-A
			(#03-#06, #09, #11, #13,
	400000000	e cenario	#15, #16)
C40	4030006920	S. CERAMIC	C1608 CH 1H 010C-T-A (#03-#06, #09, #11, #13,
			#15, #16)
	4030009470	S. CERAMIC	C1608 CH 1H R75C-T-A
]			(#01, #02, #07, #08, #10,
C41	4030006850	S. CERAMIC	#12, #14, #17, #18) C1608 JB 1H 471K-T-A
C41	4030006880	S. CERAMIC	C1608 JB 1H 471K-T-A
C44	4030007040	S. CERAMIC	C1608 CH 1H 180J-T-A
C45	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C46 C48	4030006860 4030006880	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 472K-T-A
L	-000000000	J. OLITAMIO	51000 0D 111 4721CTA

[BPF BOARD]

C50			
C51	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
J1	6910003810	CONNECTOR	IMSA-9230B-1-02Z003-T
J2	6910003810		IMSA-9230B-1-02Z003-T
EP1	0910035083	РСВ	B 3498C (BPF)

[MAIN UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION
IC1	1110002200	S. IC	MC3372MR
IC2	1110002150	S. IC	BA10324F-T1
IC3	1130005100	S. IC	FX365LG
IC4	1110002330	IC	TA7368P
IC5	1180000800	S. IC	S-81350HG-KD-T1
IC6	1130003760	S. IC	TC4S81F (TE85R)
IC7	1130003610	S. IC	TC4SU69F (TE85R)
IC8	1130000830	S. IC	μPD4094BG-T1
IC9	1110001220	S. IC	BA4558F T1
IC10	1130003760	S. IC	TC4S81F (TE85R)
IC11	1130003760	S. IC	TC4S81F (TE85R)
IC12	1140001660	S. IC	μPD7554AG-511
Q1	1530002060	S. TRANSISTOR	2SC4081 T107 R
Q2	1590000720	S. TRANSISTOR	DTA144EU T107
Q3	1590000720	S. TRANSISTOR	DTA144EU T107
Q4	1590000720	S. TRANSISTOR	DTA144EU T107
Q5	1590000380	S. FET	2SJ106-Y (TE85R)
Q6	1590001320	S. TRANSISTOR	DTC143ZU T107
Q7	1530002060	S. TRANSISTOR	2SC4081 T107 R
Q8	1530002060	S. TRANSISTOR	2SC4081 T107 R
Q9	1520000270	S. TRANSISTOR	2SB1182 TL Q
Q10	1530002060	S. TRANSISTOR	2SC4081 T107 R
Q11	1520000200	S. TRANSISTOR	2SB798-T2 DK
Q12	1530002060	S. TRANSISTOR	2SC4081 T107 R
Q13	1520000200	S. TRANSISTOR	2SB798-T2 DK
Q14	1530002060	S. TRANSISTOR	2SC4081 T107 R
Q15	1520000200	S. TRANSISTOR	2SB798-T2 DK
Q16	1530002060	S. TRANSISTOR	2SC4081 T107 R
Q17	1520000200	S. TRANSISTOR	2SB798-T2 DK
Q18	1590000430	S. TRANSISTOR	DTC144EU T107
Q20	1590000520	S. FET	2SJ106-GR (TE85R)
Q22	1590000910	S. TRANSISTOR	IMZ2 T108
Q23	1520000200	S. TRANSISTOR	2SB798-T2 DK
Q24	1520000200	S. TRANSISTOR	2SB798-T2 DK
	*		
D1	1750000160	S. DIODE	DA114 T107
D2	1750000160	S. DIODE	DA114 T107
D3	1790000590	S. DIODE	MA110 (TW)
D4	1750000160	S. DIODE	DA114 T107
D5	1730000650	S. ZENER	RD4.3M-T2B2
D6	1750000160	S. DIODE	DA114 T107
D7	1750000160	S. DIODE	DA114 T107
D8	1750000160	S. DIODE	DA114 T107 •
D9	1750000160	S. DIODE	DA114 T107
D10	1750000050	S. DIODE	1SS193 (TE85R)
D11	1790000590	S. DIODE	MA110 (TW)
D14	1790000870	S. DIODE	MA1S121 (TX)
D15	1750000160	S. DIODE	DA114 T107

[MAIN UNIT]

LIMINI	UNIT		
REF. NO.	ORDER NO.	D	ESCRIPTION
X1	6050005010	XTAL	CR-214
X2	6070000080	DISCRIMINATOR	CDBM455C16
X3	6050000130	XTAL	UM-1 1.0000M
7.0	0000000	, <u>-</u>	J 1,0000
Fl1	2020000490	CERAMIC	CFZM455E10
			(#02, #04, #05, #07, #08,
	2020000770	CERAMIC	#12, #13, #14, #15) CFZM455G
	2020000770	CENAMIC	(#01, #03, #06, #09-#11,
			#16-#18)
			#10-#10)
R1	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R2	7030003410	S. RESISTOR	ERJ3GEYJ 561 V (560 Ω)
R3	7030003660	S. RESISTOR	ERJ3GEYJ 683 V (68 kΩ)
R4	7030003500	S. RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
R6	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R7	7030003740	S. RESISTOR	ERJ3GEYJ 334 V (330 kΩ)
R8	7030003540	S. RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)
R9	7310002580	S. TRIMMER	RV-108
			(RH03A3A15X05A) 104
R10	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R11	7030003460	S. RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)
R13	7030003650	S. RESISTOR	ERJ3GEYJ 563 V (56 kΩ)
R14 R15	7030003680 7030003680	S. RESISTOR S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)
	7030003680	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R16 R17	7030003640	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R18	7030003760	S. RESISTOR	ERJ3GEYJ 474 V (470 kΩ)
R19	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R20	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R21	7030003730	S. RESISTOR	ERJ3GEYJ 274 V (270 kΩ)
R22	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R23	7030003710	S. RESISTOR	ERJ3GEYJ 184 V (180 kΩ)
R24	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R25	7030003800	S. RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
R26	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R27	7030003800	S. RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
R28	7030003560 7030003610	S. RESISTOR S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 273 V (27 kΩ)
R29 R30	7030003610	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R31	7030003040	S. RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R32	7030003200	S. RESISTOR	ERJ3GEYJ 100 V (10 Ω)
R33	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R34	7030003460	S. RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)
R35	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R36	7030003530	S. RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)
R37	7030003670	S. RESISTOR	ERJ3GEYJ 823 V (82 kΩ)
R38	7030003800	S. RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
R39	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R40	7030003820	S. RESISTOR	ERJ3GEYJ 155 V (1.5 MΩ)
R41 R42	7030003640 7030003420	S. RESISTOR S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 681 V (680 Ω)
R42 R43	7030003420	S. RESISTOR	ERJ3GEYJ 563 V (56 kΩ)
R44	7030003630	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R45	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R46	7030003550	S. RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ)
R47	7030003450	S. RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
R48	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R49	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R50	7030003470	S. RESISTOR	ERJ3GEYJ 182 V (1.8 kΩ)
R51	7030003740	S. RESISTOR	ERJ3GEYJ 334 V (330 kΩ)
R52	7310002830	S. TRIMMER	RV-159 (RH03A3AW5) 684
R53	7030003360	S. RESISTOR	ERJ3GEYJ 221 V (220 Ω)
			(#02, #04, #05, #07, #08,
	7030003400	S. RESISTOR	#12-#15) ERJ3GEYJ 471 V (470 Ω)
	. 000000400	3. 11231010H	(#01, #03, #06, #09-#11,
			#16-#18)
R54	7030003750	S. RESISTOR	ERJ3GEYJ 394 V (390 kΩ)
		L	

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IMAIN	UNIII		
REF. NO.	ORDER NO.	DI	ESCRIPTION
R55	7030003670	S. RESISTOR	ERJ3GEYJ 823 V (82 kΩ)
R56	7030003700	S. RESISTOR	ERJ3GEYJ 154 V (150 kΩ)
R57	7030003630	S. RESISTOR	ERJ3GEYJ 393 V (39 kΩ)
R58	7030003630	S. RESISTOR	ERJ3GEYJ 393 V (39 kΩ)
R59	7310002590	S. TRIMMER	RV-109
1			(RH03A3AJ3X0BA) 222
R60	7030003600	S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R61	7030003550	S. RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ)
R62	7510000200	S. THERMISTOR	TN20-3U473LT
R63	7030003590	S. RESISTOR	ERJ3GEYJ 183 V (18 kΩ)
R64	7310002720	S. TRIMMER	RV-148
R65	7030003720	S. RESISTOR	(RH03A3AS3X0DA) 472 ERJ3GEYJ 224 V (220 kΩ) (#03-#06, #09, #11, #13,
			#15, #16)
	7030003730	S. RESISTOR	ERJ3GEYJ 274 V (270 kΩ) (#01, #02, #07, #08, #10, #12, #14, #17, #18)
R66	7030003200	S. RESISTOR	ERJ3GEYJ 100 V (10 Ω)
R67	7030003200	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R68	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R69	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R70	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R71	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R72	7030003700	S. RESISTOR	ERJ3GEYJ 154 V (150 kΩ)
R73	7310002600	S. TRIMMER	RV-110 (RH03A3AS4X0AA) 473
R74	7030003710	S. RESISTOR	ERJ3GEYJ 184 V (180 kΩ)
R75	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R76	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R78	7310002600	S. TRIMMER	RV-110 (RH03A3AS4X0AA) 473
R81	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R82	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R83	7030003760	S. RESISTOR	ERJ3GEYJ 474 V (470 kΩ)
R84	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R85	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R87	7030003500	S. RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
R88	7030003500	S. RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
R89	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R92	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R93	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R95	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R98	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R103	7030003590	S. RESISTOR	ERJ3GEYJ 183 V (18 kΩ)
R104	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R105	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R106	7030003610	S. RESISTOR	ERJ3GEYJ 273 V (27 kΩ) (#01, #02, #07, #08, #10,
ŀ			#12, #14, #17, #18)
	7030003630	S. RESISTOR	ERJ3GEYJ 393 V (39 kΩ) (#03-#06, #09, #11, #13,
B40-	7020000500	e prejetop	#15, #16)
R107	7030003500	S. RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
R110	7030003710 7030003590	S. RESISTOR S. RESISTOR	ERJ3GEYJ 184 V (180 kΩ) ERJ3GEYJ 183 V (18 kΩ)
R111 R112	75100003590	S. THERMISTOR	TN20-3K202LT
R112	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R114	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R115	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
C1	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C2	4030008770	S. CERAMIC	C1608 JB 1H 562K-T-A
C3	4030008770	S. CERAMIC	C1608 JB 1H 562K-T-A
C4	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C5	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C6	4030006870	S. CERAMIC	C1608 JB 1H 222K-T-A
C7	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A
C8	4030006900	S. CERAMIC	C1608 JB 1E 103K-T-A
C9	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A

C10	REF.	ORDER	DESCRIPTION	
C12	NO.	NO.		
C13 4030008630 A030008630 S. CERAMIC CIGOB JF 1C 104Z-T-A CIGOB JF 1C 104Z-T-A CIGOB JF 1C 104Z-T-A CIGOB JF 1E 103M-T-A CIGOB JF 1E 104Z-T-A TATALUM SIMPLE STANDARD				
C13 4030006830 S. CERAMIC C1608 JF 1C 104Z-T.A C15 4030006850 S. CERAMIC C1608 JF 1H 203Z-T.A C16 4030006850 S. CERAMIC C1608 JF 1H 223Z-T.A C17 4030006850 S. CERAMIC C1608 JB 1H 471K-T.A C18 4030006810 S. CERAMIC C1608 JB 1H 271J-T.A C19 4030006830 S. CERAMIC C1608 JF 1C 104Z-T.A C23 4550003080 S. CERAMIC C1608 JF 1C 104Z-T.A C24 4030006850 S. CERAMIC C1608 JF 1C 104Z-T.A C25 4030006850 S. CERAMIC C1608 JF 1C 104Z-T.A C24 4030006860 S. CERAMIC C1608 JF 1C 104Z-T.A C27 4550003080 S. TANTALUM TEMSVA 1A 335M-8L C28 4030006850 S. CERAMIC C1608 JB 1H 102K-T.A C33 4510005660 S. CERAMIC C1608 JB 1H 102K-T.A C34 4030006850 S. CERAMIC C1608 JB 1H 20Z-T.A C35 4030006850 S. CERAMIC C1608 JB 1H 20Z-T.A C34				
C16	1			
C16	1			
C17	C15	4030008430	S. CERAMIC	C1608 JF 1H 223Z-T-A
C18		4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C19 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C20 4500008630 S. CERAMIC C1608 JF 1C 104Z-T-A C24 4030006850 S. CERAMIC C1608 JB 1T 107L-T-A C25 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C26 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C27 4550003100 S. TANTALUM TEMSVA 1A 335M-8L C28 450003680 S. CERAMIC C1608 JB 1H 102K-T-A C31 4510005560 S. CERAMIC C1608 JB 1H 102K-T-A C32 4030006830 S. CERAMIC C1608 JB 1H 102K-T-A C33 4030006830 S. CERAMIC C1608 SL 1H 560J-T-A C34 4030006830 S. CERAMIC C1608 SL 1H 560J-T-A C35 4030006830 S. CERAMIC C1608 SL 1H 20J-T-A C37 4030006830 S. CERAMIC C1608 JF 1C 104Z-T-A C38 4030006830 S. CERAMIC C1608 JF 1C 104Z-T-A C39 4550003800 S. CERAMIC C1608 JF 1C 104Z-T-A C41				
C20			i	
C23	1		1	,
C24				
C26			3	. —
C27	C25	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C28	C26	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C29				
C30				
C31 4510005560 ELECTROLYTIC 10 MV 220 AG C32 4030006600 S. CERAMIC C1608 SL 1H 260J-T-A C34 4030008630 S. CERAMIC C1608 SL 1H 220J-T-A C35 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C36 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C37 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C38 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C39 4550003080 S. TANTALUM TEMSVA 1A 335M-8L C40 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C41 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C42 4550003220 S. TANTALUM TEMSVA 1E 105M-8L C43 4550003040 S. CERAMIC C1608 JF 1C 104Z-T-A C44 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C45 4030006850 S. CERAMIC C1608 JF 1C 104Z-T-A C47 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C54				
C32 40300066720 S. CERAMIC C1608 SL 1H 560J-T-A C34 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C35 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C36 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C37 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C38 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C39 4550003080 S. TANTALUM TEMSVA 1A 3355M-8L C40 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C41 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C42 4550003200 S. TANTALUM TEMSVB2 0J 108M-8L C43 4550003040 S. CERAMIC C1608 JF 1C 104Z-T-A C43 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C44 4030007110 S. CERAMIC C1608 JF 1C 104Z-T-A C47 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C51 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C54		1		
C33 4030006660 S. CERAMIC C1608 SL 1H 220J-T-A C34 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C36 4030008690 S. CERAMIC C1608 JF 1C 104Z-T-A C37 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C38 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C39 4550003080 S. CERAMIC C1608 JF 1C 104Z-T-A C40 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C41 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C42 4550003220 S. TANTALUM TEMSVB2 0J 106M-8L C43 4650003200 S. TANTALUM TEMSVB2 0J 106M-8L C44 4030007070 S. CERAMIC C1608 CH 1H 330J-T-A C45 4030007070 S. CERAMIC C1608 CH 1H 30J-T-A C47 4030008630 S. CERAMIC C1608 CH 1H 30J-T-A C49 4030008650 S. CERAMIC C1608 JF 1C 104Z-T-A C51 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C54				
C35		1		C1608 SL 1H 220J-T-A
C36	C34	4030008630	S. CERAMIC	
C37				
C38				
C39				
C40		l		
C41				
C43		l	l	
C44	C42	4550003220	S. TANTALUM	TEMSVA 1E 105M-8L
C45	C43	4550003040	S. TANTALUM	
C46				
C47		l	1 '	
C48			l	
C49 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C50 4550003110 S. TANTALUM TEMSVC 1A 226M-12L C51 4030008630 S. CERAMIC C1608 JF 1C 104Z-T-A C54 4550002980 S. TANTALUM TEMSVA 1C 225M-8L C55 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C57 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C58 4550003060 S. TANTALUM TEMSVC 0J 336M-12L C59 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C60 4550003060 S. TANTALUM TEMSVC 0J 336M-12L C61 4550003110 S. TANTALUM TEMSVC 0J 336M-12L C62 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C63 4550003110 S. TANTALUM TEMSVC 1A 226M-12L C64 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C65 4550003110 S. CERAMIC C1608 JB 1H 471K-T-A C66 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C69 <td< td=""><td></td><td></td><td>1</td><td></td></td<>			1	
C51		l		i i
C54	C50	4550003110	S. TANTALUM	TEMSVC 1A 226M-12L
C55		l		
C56		l		
C57				
C58		1		
C60		l		
C61	C59	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C62				
C63		!		
C64				
C65			_	
C66 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C67 4550003110 S. TANTALUM TEMSVC 1A 226M-12L C68 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C69 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C70 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C71 4550000530 S. TANTALUM TESVA 1V 104M1-8L C72 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C73 4030006850 S. CERAMIC C1608 JB 1H 471K-T-A C75 4030006870 S. CERAMIC C1608 JB 1H 471K-T-A C76 4030008850 S. CERAMIC C1608 JB 1H 222K-T-A C77 4030006710 S. CERAMIC C1608 JB 1C 123K-T-A C78 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C78 4030007140 S. CERAMIC C1608 CH 1H 121J-T-A (#01, #03, #06, #09-#11, #16-#18) T16-#18				
C68				
C69		f		
C70				
C71				
C72				
C73				
C74				
C76				
C77				
C78				
(#02, #04, #05, #07, #08, #12-#15) 4030007140 S. CERAMIC C1608 CH 1H 121J-T-A (#01, #03, #06, #09-#11, #16-#18)				
4030007140 S. CERAMIC C1608 CH 1H 121J-T-A (#01, #03, #06, #09-#11, #16-#18)	C/8	4030007110	S. CERAMIC	(#02, #04, #05, #07, #08,
#16-#18)		4030007140	S. CERAMIC	
5,0 -00002000 5, IAITIALONI TENIOTA 10 220NIOL	C79	4550002980	S. TANTALUM	

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C80	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A
C81	4550002980	S. TANTALUM	TEMSVA 1C 225M-8L
C82	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C83	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C84	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C85	4030006860 4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A
C86 C87	4550003150	S. TANTALUM	TEMSVC 1C 156M-12L
C88	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A
C89	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C90	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C91	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C92	4030006900	S. CERAMIC	C1608 JB 1E 103K-T-A
C93	4030008630	S. CERAMIC S. CERAMIC	C1608 JF 1C 104Z-T-A C1608 JB 1H 471K-T-A
C94 C95	4030006850 4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A
C96	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C97	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C101	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C102	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C103	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C104	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A C1608 SL 1H 470J-T-A
C105 C106	4030006710 4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A
C100	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C108	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C109	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C110	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C111	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C112	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C113	4030006870	S. CERAMIC	C1608 JB 1H 222K-T-A
C114 C117	4030006860 4030008630	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A C1608 JF 1C 104Z-T-A
C118	4550000530	S. TANTALUM	TESVA 1V 104M1-8L
C119	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A
C120	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C121	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C128	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A
C130	4030008630	S. CERAMIC S. TANTALUM	C1608 JF 1C 104Z-T-A TESVA 1V 334M1-8L
C131 C132	4550000560 4550003040	S. TANTALUM	TEMSVB2 0J 106M-8L
C133	4030006900	S. CERAMIC	C1608 JB 1E 103K-T-A
			(#01, #03-#06, #08-#11,
	4030008770	S. CERAMIC	#13, #15-#18) C1608 JB 1H 562K-T-A
C134	4030006850	S. CERAMIC	(#02, #07, #12, #14) C1608 JB 1H 471K-T-A
C135	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C136	4550003100	S. TANTALUM	TEMSVB 1A 106M-12L
C137	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C138	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C139	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C140	4030006710	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 SL 1H 470J-T-A
C141 C142	4030006710 4030006710	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A
C142	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C144	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C145	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C146	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C147	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C148	4030006710	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 SL 1H 470J-T-A
C149 C150	4030006710 4550003220	S. TANTALUM	TEMSVA 1E 105M-8L
J2	6510007080	CONNECTOR	PI28A-02M
J4	6910004980	CONNECTOR	IMSA-9120S-03 IMSA-9120S-07
J5 J6	6910004910 6910004920	CONNECTOR	IMSA-9120S-07
J7	6510007080	CONNECTOR	PI28A-02M
J8	6510011180	CONNECTOR	PI28A-14M

[MAIN UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
W7	7030003860	S. JUMPER	ERJ3GE JPW V
W8	7030003860	S. JUMPER	ERJ3GE JPW V
W10	7030003860	S. JUMPER	ERJ3GE JPW V
W11	7030003860	S. JUMPER	ERJ3GE JPW V
W12	7030003860	S. JUMPER	ERJ3GE JPW V
W13	7030003860	S. JUMPER	ERJ3GE JPW V
W14	7030003860	S. JUMPER	ERJ3GE JPW V
W15	7030003860	S. JUMPER	ERJ3GE JPW V
W16	7030003860	S. JUMPER	ERJ3GE JPW V
W17	7030003860	S. JUMPER	ERJ3GE JPW V
W18	7030003860	S. JUMPER	ERJ3GE JPW V
W19	7030003860	S. JUMPER	ERJ3GE JPW V
W20	7030003860	S. JUMPER	ERJ3GE JPW V
EP1	0910038093	PCB	B 3745C (MAIN)

[LOGIC UNIT]

NO.	ORĐER NO.	DESCRIPTION				
IC1	1140001480	S. IC	μPD78213GC-AB8			
IC2	1130007230	IC	SC-1260			
			(#01-#06, #09-#13,			
			#16-#18)			
	1130007240	IC	SC-1261			
			(#07, #08, #14, #15)			
IC3	1130004910	S. IC	TC5564AFL-15 (TP1)			
IC4	1130006900	S. IC	MC74HC373AF			
IC5	1130004830	S. IC	TC7SU04F (TE85R)			
IC6	1130003610	S. IC	TC4SU69F (TE85R)			
IC7	1130003610	S. IC	TC4SU69F (TE85R)			
IC9	1110001550	S. IC	S-8054ALB-LM-T1			
Q1	1530002060	S. TRANSISTOR	2SC4081 T107 R			
	1530002060	S. TRANSISTOR				
	1590002000	S. TRANSISTOR				
	1590000430	S. TRANSISTOR				
G0	1090000430	S. MANSISTON	D10144E0 1101			
D1	1750000160	S. DIODE	DA114 T107			
D2	1750000160	S. DIODE	DA114 T107			
D3	1750000170	S. DIODE	DA115 T107			
D5	1750000190	S. DIODE	1SS322 (TE85R)			
	1160000060	S. DIODE	DAN202U T107			
	1750000190	S. DIODE	1SS322 (TE85R)			
D8	1160000060	S. DIODE	DAN202U T107			
X1	6050007450	XTAL	RF-4A3 FAM NKD (4.9152M)			
L1	6200001260	S. COIL	MLF2012A 1R8M-T			
R1	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)			
R2	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)			
R3	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ)			
R4	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
1	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
	7030003780	S. RESISTOR	ERJ3GEYJ 684 V (680 kΩ)			
R8	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			

[LOGIC UNIT]

REF. NO.	ORDER NO.	DESCRIPTION				
R9	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R10	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)			
R11	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R12	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)			
R13 R14	7030003560 7030003680	S. RESISTOR S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 104 V (100 kΩ)			
R15	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R16	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R17	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R18	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R19 R20	7030003680 7030003680	S. RESISTOR S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)			
R21	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)			
R22	7410000940	S. ARRAY	EXB-V8V 471JV (470 Ω)			
R24	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R26 R27	7030003680 7030003680	S. RESISTOR S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)			
R28	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R30	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)			
R31	7410000950	S. ARRAY	EXB-V8V 102JV			
R32	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 473 V (47 kΩ)			
R34 R35	7030003640 7030003440	S. RESISTOR S. RESISTOR	ERJ3GEYJ 473 V (47 κΩ)			
R36	7410000770	S. ARRAY	EXB-V4V 102JV (1 kΩ)			
R38	7410000950	S. ARRAY	EXB-V8V 102JV			
R42	7410000950	S. ARRAY	EXB-V8V 102JV			
R45 R50	7410000770 7030003680	S. ARRAY S. RESISTOR	EXB-V4V 102JV (1 kΩ) ERJ3GEYJ 104 V (100 kΩ)			
R51	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
			· · ·			
C1	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C2	4550000270	S. TANTALUM	TESVA 1E 474M1-8L			
C3 C4	4030007060 4030006960	S. CERAMIC S. CERAMIC	C1608 CH 1H 270J-T-A C1608 CH 1H 050C-T-A			
C5	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A			
C6	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A			
C7	4550003100	S. TANTALUM	TEMSVB 1A 106M-12L			
C8 C9	4550003100 4030008630	S. TANTALUM S. CERAMIC	TEMSVB 1A 106M-12L C1608 JF 1C 104Z-T-A			
C10	4550003100	S. TANTALUM	TEMSVB 1A 106M-12L			
C11	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A			
C12	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A			
C13	4550003100	S. TANTALUM S. CERAMIC	TEMSVB 1A 106M-12L C1608 JB 1H 471K-T-A			
C14 C15	4030006850 4030006900	S. CERAMIC	C1608 JB 1E 103K-T-A			
C16	4030006900	S. CERAMIC	C1608 JB 1E 103K-T-A			
C18	4030007100	S. CERAMIC	C1608 CH 1H 560J-T-A			
C19 C20	4030008630 4030008630	S. CERAMIC S. CERAMIC	C1608 JF 1C 104Z-T-A C1608 JF 1C 104Z-T-A			
C20 C29	4030008630	S. CERAMIC	C1608 SL 1H 470J-T-A			
C30	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C31	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C32 C34	4030006710 4030006710	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 SL 1H 470J-T-A			
C34	4030006710	S. CERAMIC	C1608 JF 1C 104Z-T-A			
C36	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A			
C37	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A			
C38	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A C1608 JF 1C 104Z-T-A			
C40 C41	4030008630 4030006750	S. CERAMIC S. CERAMIC	C1608 JF 1C 1042-1-A C1608 SL 1H 101J-T-A			
-71	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2.555 22 W. 1818 171			
BT1	3020000190	LITHIUM	CR1220-1FC			
J1	2610000320	CONNECTOR	IC61-0324-050			
J4 .	6910004940	CONNECTOR	IMSA-9120B-03			
J5 J6	6910004950 6910004960	CONNECTOR	IMSA-9120B-07 IMSA-9120B-11			
J7	6910005530	CONNECTOR	IMSA-9120B-16			

[LOGIC UNIT]

REF. NO.	ORDER NO.	DESCRIPTION				
J8	6910004970	CONNECTOR	IMSA-9120B-15			
EP1 EP2	0910039160 0910030492	PCB FPC	B 3882 (LOGIC) B 3101B			

[FRONT UNIT]

	FRONT ONLY					
REF. NO.	ORDER NO.	D	ESCRIPTION			
IC1	1130004930	S. IC	μPD7225GB-3B7			
IC2	1130004200	S. IC	TC4S66F (TE85R)			
IC3	1130003920	S. IC	TC4S69F (TE85R)			
IC4	1130006440	S. IC	TC7S08F (TE85R)			
Q1	1520000200	S. TRANSISTOR	2SB798-T2 DK			
Q2	1530002060	S. TRANSISTOR	2SC4081 T107 R			
Q3	1590000720	S. TRANSISTOR	DTA144EU T107			
Q4	1530002060	S. TRANSISTOR	2SC4081 T107 R			
Q5	1510000510	S. TRANSISTOR	2SA1576 T107 R			
Q6	1510000510	S. TRANSISTOR	2SA1576 T107 R			
Q7	1590000430	S. TRANSISTOR	DTC144EU T107			
Q9	1530001940	S. TRANSISTOR	2SC2712-BL (TE85R)			
Q10	1510000510	S. TRANSISTOR	2SA1576 T107 R			
D1	1730000580	S. ZENER	RD3.0M-T2B1			
D5	1750000160	S. DIODE	DA114 T107			
D6	1750000120	S. DIODE	DWA010-TE			
D7	1750000120	S. DIODE	DWA010-TE			
	0000001110	0.000	MLF2012D R10M-T			
L1	6200001110	S. COIL S. COIL	MLF2012D R10M-T			
L2	6200001110	S. COIL	MLF2012D RIOM-1			
R1	7030003450	S. RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)			
R2	7030003310	S. RESISTOR	ERJ3GEYJ 820 V (82 Ω)			
R3	7030003310	S. RESISTOR	ERJ3GEYJ 820 V (82 Ω)			
R4	7030000980	S. RESISTOR	MCR50JZHJ 5.6 Ω (5R6)			
R5	7030003710	S. RESISTOR	ERJ3GEYJ 184 V (180 kΩ)			
R6	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)			
R7	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)			
R8	7030003250	S. RESISTOR	ERJ3GEYJ 270 V (27 Ω)			
R9	7030003530	S. RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)			
R10	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)			
R11	7030003400	S. RESISTOR S. RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 103 V (10 kΩ)			
R12 R13	7030003560 7030003440	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)			
R13	7030003440	S. RESISTOR	ERJ3GEYJ 333 V (33 kΩ)			
R14	7030003620	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)			
R16	7030003440	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)			
		S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)			
R17 R18	7030003640 7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R19	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R20	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R21	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R22	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)			
R23	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)			
R24	7030003450	S. RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)			
R25	7030003510	S. RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)			
R26	7030003470	S. RESISTOR	ERJ3GEYJ 182 V (1.8 kΩ)			
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[FRONT UNIT]

REF.	ORDER NO.	DESCRIPTION				
		e prejetop	ED120EVI 472 V (47 kg)			
R27 R28	7030003640 7510000370	S. RESISTOR S. THERMISTOR	ERJ3GEYJ 473 V (47 kΩ) TN20-3I152LT			
R29	7030003510	S. RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)			
R30	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)			
R31	7030003260	S. RESISTOR	ERJ3GEYJ 330 V (33 Ω)			
R32	7030003260	S. RESISTOR	ERJ3GEYJ 330 V (33 Ω)			
R33	7030003260	S. RESISTOR	ERJ3GEYJ 330 V (33 Ω)			
R34	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)			
R35	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)			
R36	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)			
	4550000000	C TANITALLINA	TEMOVA OL 475M OL			
C1 C2	4550003030 4030006710	S. TANTALUM S. CERAMIC	TEMSVA 0J 475M-8L C1608 SL 1H 470J-T-A			
C3	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C4	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A			
C5	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C6	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A			
C7	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C8	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A			
C9	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C12	4030006850	S. CERAMIC S. CERAMIC	C1608 JB 1H 471K-T-A			
C13	4030006860 4550003030	S. TANTALUM	C1608 JB 1H 102K-T-A TEMSVA 0J 475M-8L			
C15	4030003030	S. CERAMIC	C1608 JB 1H 471K-T-A			
C16	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A			
C17	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A			
C18	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C19	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C20	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A			
C21	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A			
C22	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C23	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C24 C25	4030006710 4030006710	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 SL 1H 470J-T-A			
C25	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C27	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C28	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C29	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C30	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C31	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C32	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C33 C34	4030006710 4030006710	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 SL 1H 470J-T-A			
C35	4030006710	S. CERAMIC	C1608 JB 1H 471K-T-A			
C36	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A			
C37	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A			
C38	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A			
C39	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A			
C40	4030006890	S. CERAMIC	C1608 JF 1H 103Z-T-A			
C41	4010000500	CERAMIC	DD104 B 102K 50V			
C42 C43	4550003040 4030006710	S. TANTALUM S. CERAMIC	TEMSVB2 0J 106M-8L C1608 SL 1H 470J-T-A			
C43	4030006710	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-1-A			
C45	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C46	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C47	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
C48	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A			
 _{DG4}	E000000500	1.00	LD D5000 L /F 5000			
DS1	5030000590	LCD	LD-B5093J (E-5208) [FUNCTION DISPLAY]			
DS2	5080000240	LAMP	HRS-3060A (without CAP)			
DS3	5080000240	LAMP	HRS-3060A (without CAP)			
DS4	5040000960	S. LED	SLM-13YWF T97F			
DS5	5040000960	S. LED	SLM-13YWF T97F			
DS6 DS7	5040000960 5040000960	S. LED S. LED	SLM-13YWF T97F SLM-13YWF T97F			
	55,000000					
MC1	7700000480	MICROPHONE	KUC2023-01-006			

[FRONT UNIT]

REF. NO.	ORDER NO.	DESCRIPTION				
SP1	2510000650	SPEAKER	EAS-3P127D			
J1	6510007170	CONNECTOR	PI28A-03M			
W7	703000010	S. JUMPER	MCR10EZHJ JPW (000)			
EP1 EP2 EP4	0910038081 8930012750 0910027442	PCB LCD CONTACT FPC	B 3766A (FRONT) SRCN-575 B 2773B			

[VR UNIT]

IVN O			
REF. NO.	ORDER NO.	D	ESCRIPTION
R2	7210001440	VARIABLE	RK097111101NA (10KA) [VOL]
R3	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R4	7310002840	S. TRIMMER	RV-160 (RH03A3A16) 105
R5	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R6	7310002720	S. TRIMMER	RV-148 (RH03A3AS3X0DA) 472
R7	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R8	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
C1	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C2	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C3	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C4	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C5	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C6	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C7	4030006710	S. CERAMIC	C1608 SL 1H 470J-T-A
C9	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C10 C11	4030006850 4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 471K-T-A C1608 JB 1H 102K-T-A
C12	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C12	4030006850	S. CERAMIC	C1608 JB 1H 102K-1-A
Cis	403000630	S. CERAMIC	C1000 JB 1H 4/1K-1-A
DS1	5040001040	LED	TLR224 [TX]
S2	2230000840	SWITCH	EVQ-QBW 06T [S]
J1	6510007180	CONNECTOR	PI28A-05M
J2	6510007090	CONNECTOR	PI28A-04M
J3	6910004740	CONNECTOR	IMSA-9202B-1-03T
J4	6910004740	CONNECTOR	IMSA-9202B-1-03T
J6	6510007170	CONNECTOR	PI28A-03M
J7	6510007080	CONNECTOR	PI28A-02M
P1	6910003120	CONNECTOR	IMSA-9206H-T
P2	6910003120	CONNECTOR	IMSA-9206H-T
EP1	0910040184	PCB	B 2710D (VR)
:			

[TONE UNIT] (#01-#06, #09-#13)

REF. NO.	ORDER NO.	DESCRIPTION				
IC1	1130007150	S. IC	FX803LG			
Q1 Q2	1530002060 1530002060		2SC4081 T107 R 2SC4081 T107 R			
X1	6050008630	XTAL	CR-441 AT-49 4.000MHz			
L1	6200001260	S. COIL	MLF2012A 1R8M-T			
R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21	7030003700 7030003650 7030003660 7030003640 7030003660 7030003660 7030003680 7030003440 7030003440 7030003440 7030003440 7030003440 7030003440 7030003560 703000350 703000350 703000350 703000350 703000350 703000350	S. RESISTOR	ERJ3GEYJ 154 V (150 kΩ) ERJ3GEYJ 563 V (56 kΩ) ERJ3GEYJ 563 V (68 kΩ) ERJ3GEYJ 683 V (68 kΩ) ERJ3GEYJ 225 V (2.2 MΩ) ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 105 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 105 V (1 kΩ) ERJ3GEYJ 106 V (100 kΩ) ERJ3GEYJ 107 V (100 kΩ) ERJ3GEYJ 108 V (100 kΩ) ERJ3GEYJ 108 V (100 kΩ) ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)			
C1 C2 C3 C4 C5 C6 C7 C9 C11 C12 C13 C14 C15 C16 C17	4030006710 4030008630 4030008630 4550003040 4030006660 4550000460 4030008630 4030007030 4030007030 4030006850 4550000460 4030007130 4030006880 4030006850	S. CERAMIC S. CERAMIC S. CERAMIC S. TANTALUM S. CERAMIC S. TANTALUM S. CERAMIC	C1608 SL 1H 470J-T-A C1608 JF 1C 104Z-T-A C1608 JF 1C 104Z-T-A TEMSVB2 0J 106M-8L C1608 SL 1H 220J-T-A TESVA 1C 105M1-8L C1608 JF 1C 104Z-T-A C1608 JF 1C 104Z-T-A C1608 CH 1H 150J-T-A C1608 CH 1H 150J-T-A C1608 JB 1H 102K-T-A C1608 JB 1H 471K-T-A TESVA 1C 105M1-8L C1608 CH 1H 101J-T-A C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A			
J1 J2	6910005670 6910004930	CONNECTOR	IMSA-9120S-16 IMSA-9120S-15			
W1 W2 W3	7030003860 7030003860 7030003860	S. JUMPER S. JUMPER S. JUMPER	ERJ3GE JPW V ERJ3GE JPW V ERJ3GE JPW V			
EP1	0910039172	PCB	B 3883B (TONE)			

SECTION 6 MECHANICAL PARTS AND DISASSEMBLY

• CHASSIS PARTS

LABEL Number	ORDER NO.	DESCRIPTION	QTY.	LABEL Number	ORDER NO.	DESCRIPTION	QTY.
1	8610004310	Knob N133 [VOL]	1	34)	8510006810	DC-DC case	1
2	8830000550	VR nut (E)	1	35	8930001510	Sponge (V)	1
3	8930019531	859 connector seal -1	1	36	8510007710	860 RF case	1
4	8930019880	DC rubber	1	37	8930018830	778 module plate	1
(5)	8810004450	Screw PH M2×8 ZK	2	38	8930001160	Ground spring	1
6	8810004860	Screw PH M2×6 ZK	1	39	8930001170	Ground spring (A)	1
	201000001	859 top panel (B) -1		40	8810001840	Screw PH M2.6×6 NI BS	2
7	8210008861	(#01-#10, #12-#18)	1	41)	8930020720	573 stand-off (A) -3	4
	8210008871	859 top panel (C) -1 (#11)	1	42	8930028770	860 MAIN shield	1
8	8930019540	859 lens	1	43	8810000010	Screw PH M2×4	4
9	8930019190	Switch rubber	1	44	8810005860	Screw PH No. 0 M2 × 3 NI	4
10	8930019521	859 top seal -1	1	45	8510000440	IC shield plate	1
11)	8930019170	Switch plate	1	46	8810004870	Screw PH No. 0 M2 × 2.5	2
(12)	8930019730	Insulate pipe (G)	1	47	8930011600	PTT plate	2
13	8810005320	Screw PH M2×4 NI FE	1	48	8930018650	575 PTT rubber (A)	1
		Variable resistor RK097111101NA		49	8930011611	PTT spring	1
(14)	7210001440	(10 KA) [VOL]	1	50	8930019510	PTT button (A)	1
(15)	6510007120	Antenna connector TNC-R106	1	51)	8930018640	575 PTT holder (A) -1	1
(6)	8850001010	Icom washer (O)	1	52	8810004890	Screw PH No. 0 M2×6 ZK	2
17)	8010010480	575 rear panel (A)	1	53	8930021490	575 center seal (A)	1
18	8810004000	Screw PH B0 M2 × 31.5 ZK	4	54)	8510006270	758 CPU shield plate	1
19	8010007602	Bushing (A) -2	2	55	8810005900	Screw PH B0 No. 0-3 M1.4 × 3.5 NI	11
20	8860000010	Screw lug M2	2	56	6910002060	Reflector ALF40X20X0.58	1
21)	8930011880	Contact holder	1	57	8930012750	LCD contact SRCN-575	2
22	8930005980	Contact spring	1		500000500	LCD LD-B5093J (E-5208)	
23	8810002580	Screw BuH M2×6 NI BS	1	58	5030000590	[FUNCTION DISPLAY]	1
24	8810005310	Screw PH M2×5 NI FE	1	59	8930012190	LCD holder	1
25)	8930008610	Release button (A)	1	60	8010010190	562 keyboard (C) -1	1
26	8930013430	Lock plate (B)	1	6 1	8930027680	Sponge (DB)	1
27)	8310029840	859 plate	1	62	8810004800	Screw PH B0 No. 0 M2×4	4
28	8010006990	Sliding plate	1	63	8930012101	Speaker plate -1	1
29	8810002310	Screw FH M2×4 NI BS	4	64	2510000650	Speaker EAS-3P127D	1
30	6450000110	Connector HSJ0836-01-010 [EXT SP]	1	65	7700000480	Microphone KUC2023-01-006	1
<u>31</u>	6450000130	Connector HSJ1102-01-540 [MIC]	1	66	8930011931	573 microphone holder -1	1
32	6450001080	Connector HEC3800-01-010 [DC IN 13.8V]	1	67	8210008851	575 front panel (H) -1 (incl. window plate)	1
33	8510007700	860 PLL case	2	68	8930019300	575 10-KEY panel (A)	1

Screw abbreviations

PH: Pan head

FH: Flat head

BuH: Button head

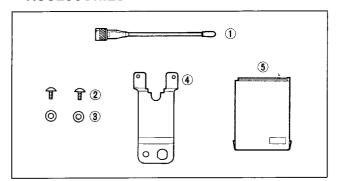
B0: Self-tapping

NI: Nickel

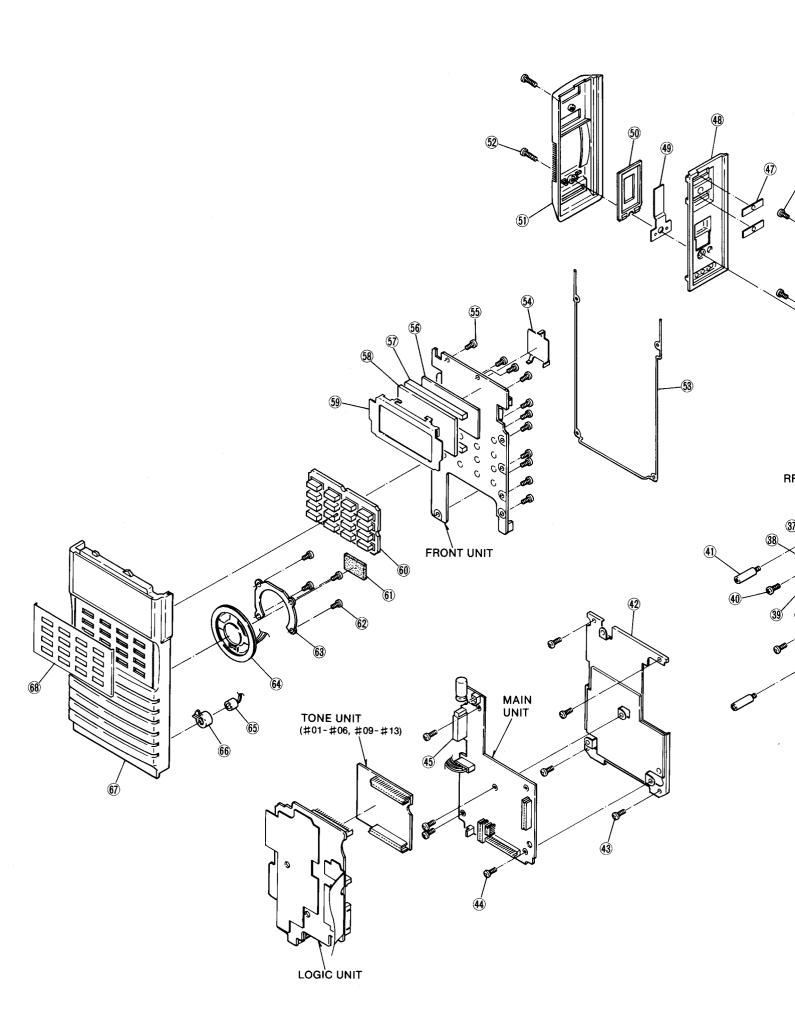
BS: Brass

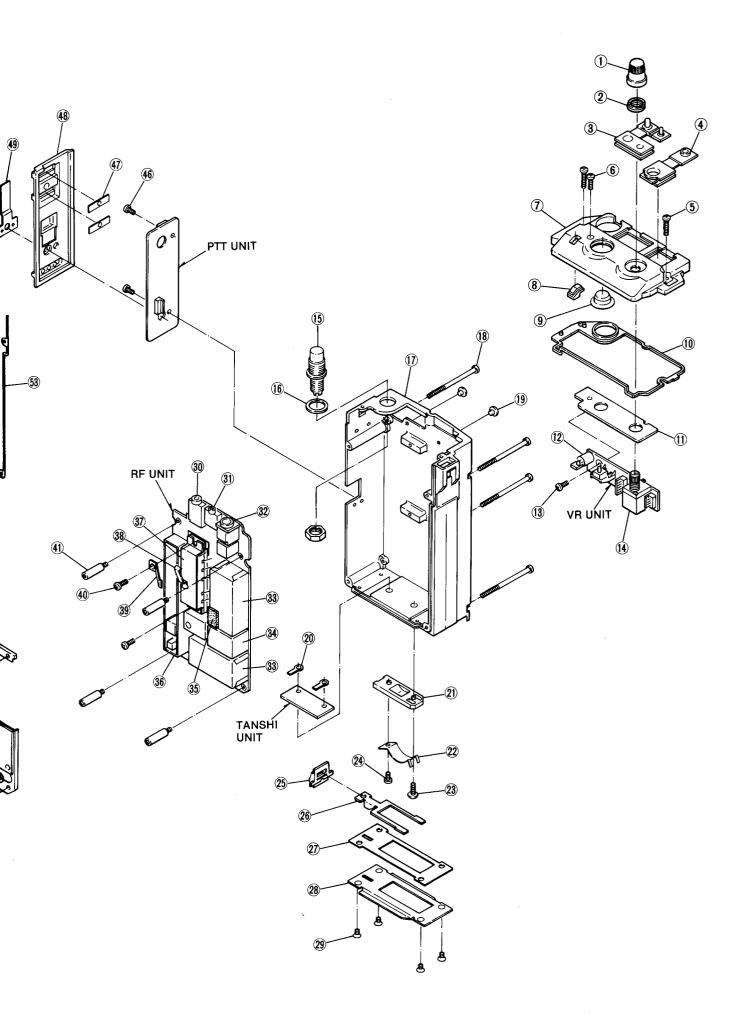
ZK: Black

• ACCESSORIES



LABEL Number	ORDER NO. DESCRIPTION			
	Ontional product	FA-400TA FLEXIBLE ANTENNA	Τ,	
1	Optional product	(#01, #02, #10, #12, #14, #16-#18)	'	
	0-4:	FA-450TA FLEXIBLE ANTENNA		
	Optional product	(#03-#09, #11, #13, #15)	'	
2	8810003650	Icom screw A 4	2	
3	8850000640	Nylon washer B M3	2	
4	8010005710	Belt clip	1	
(5)	Optional product	CM-72 BATTERY PACK	1	



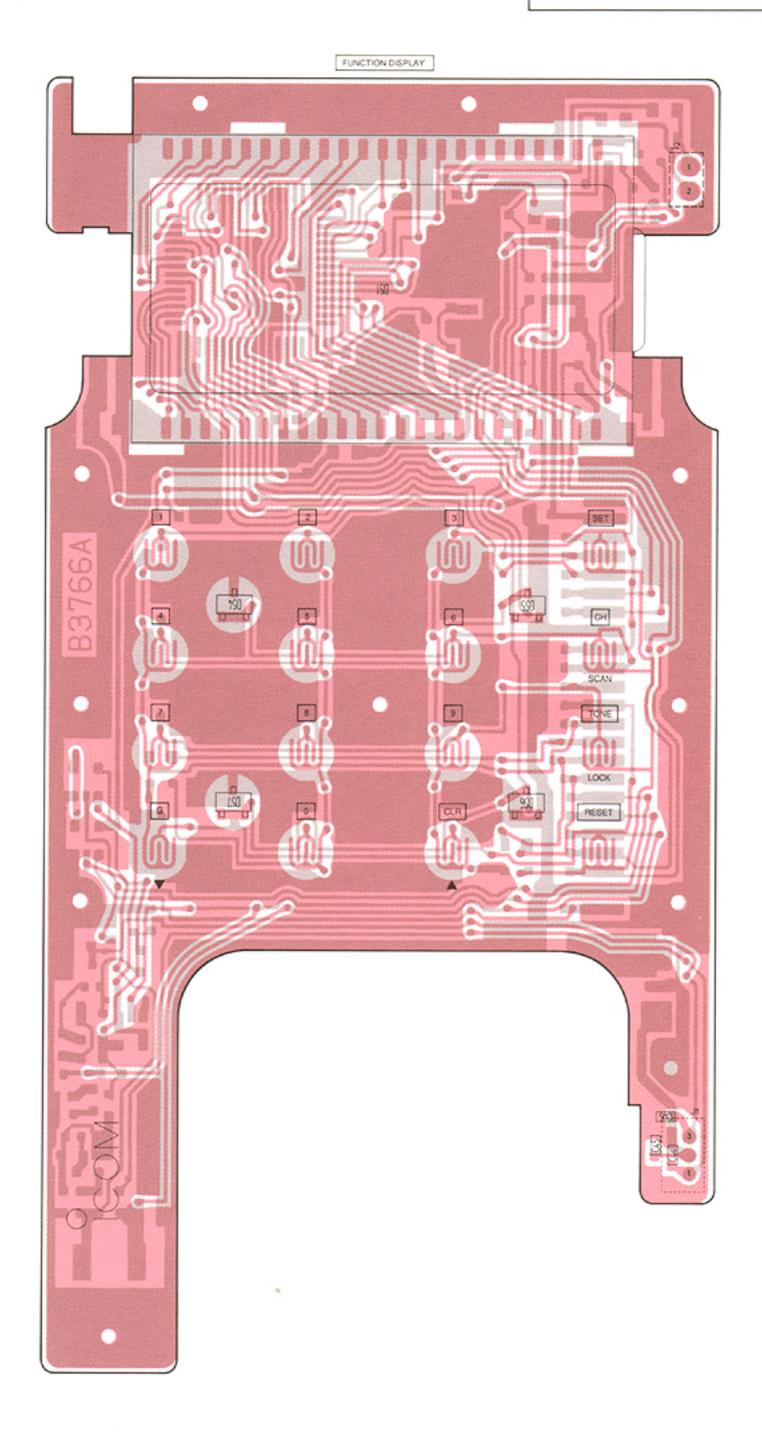


SECTION 7 BOARD LAYOUTS

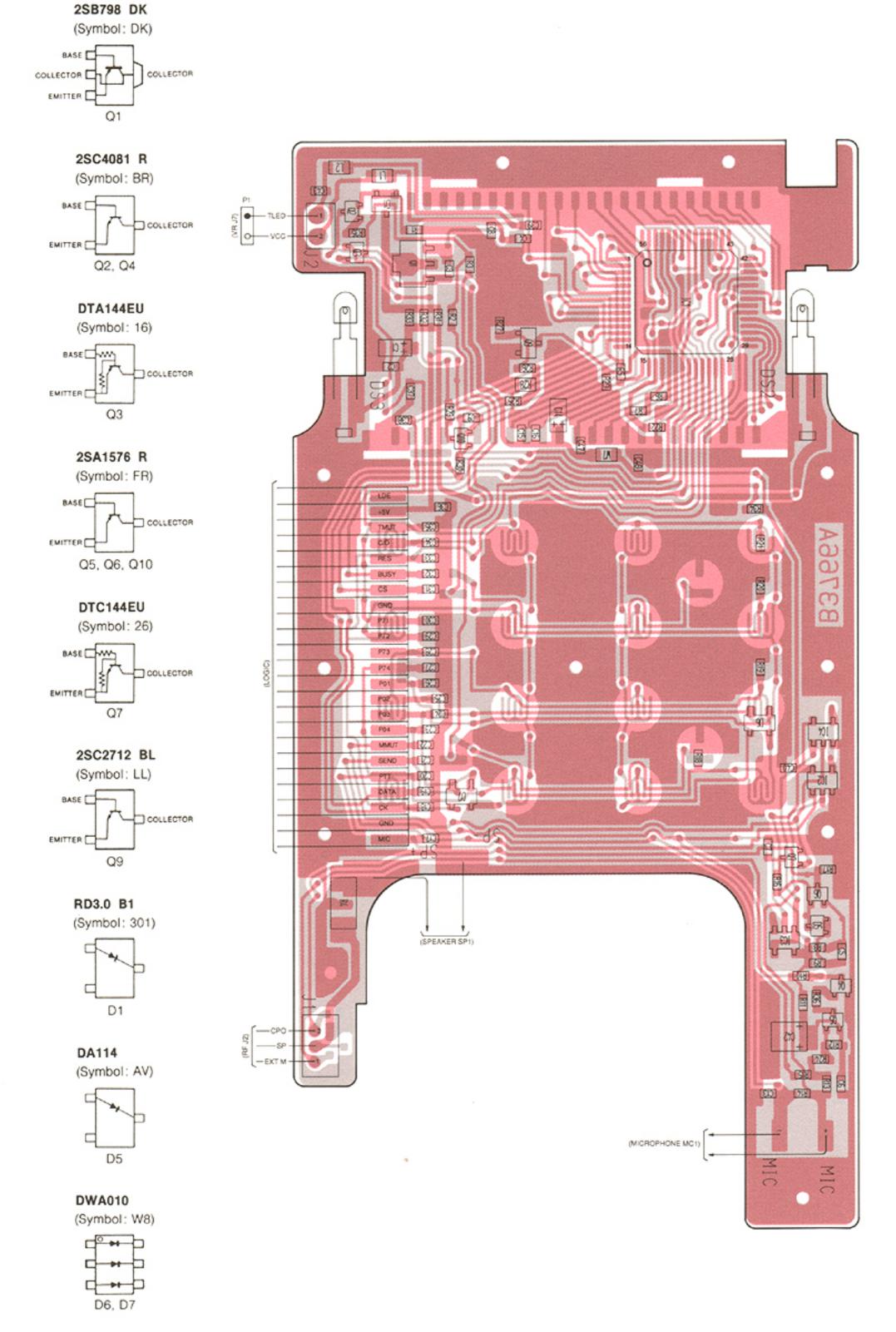
7-1 FRONT UNIT

• FRONT UNIT

The combination of this page and the next page show the unit layout in the same configuration as the actual P.C. Board.



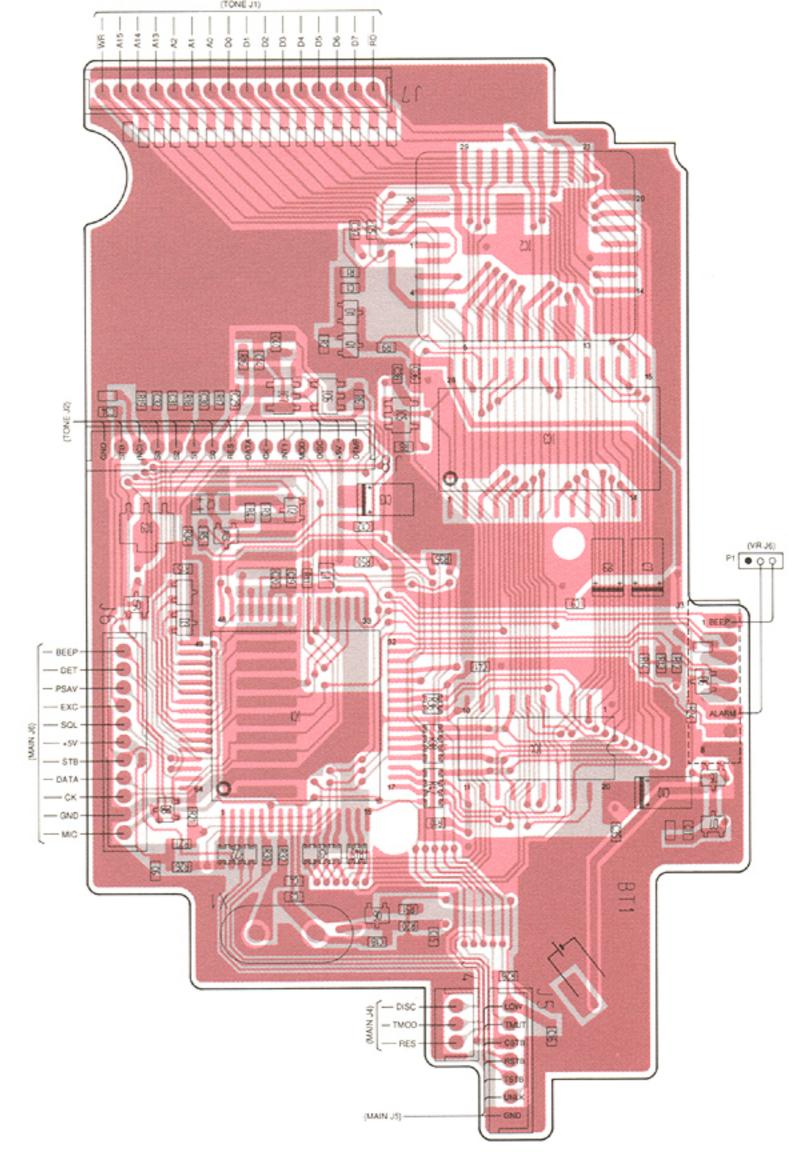
FRONT UNIT



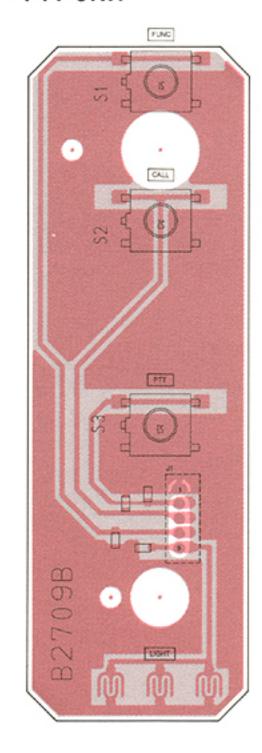
7-2 LOGIC UNIT

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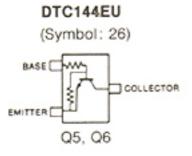
• LOGIC UNIT

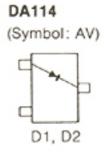


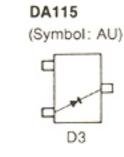
• PTT UNIT

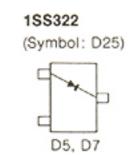


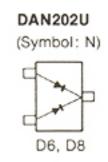
2SC4081 R (Symbol: BR) BASE COLLECTOR Q1, Q2



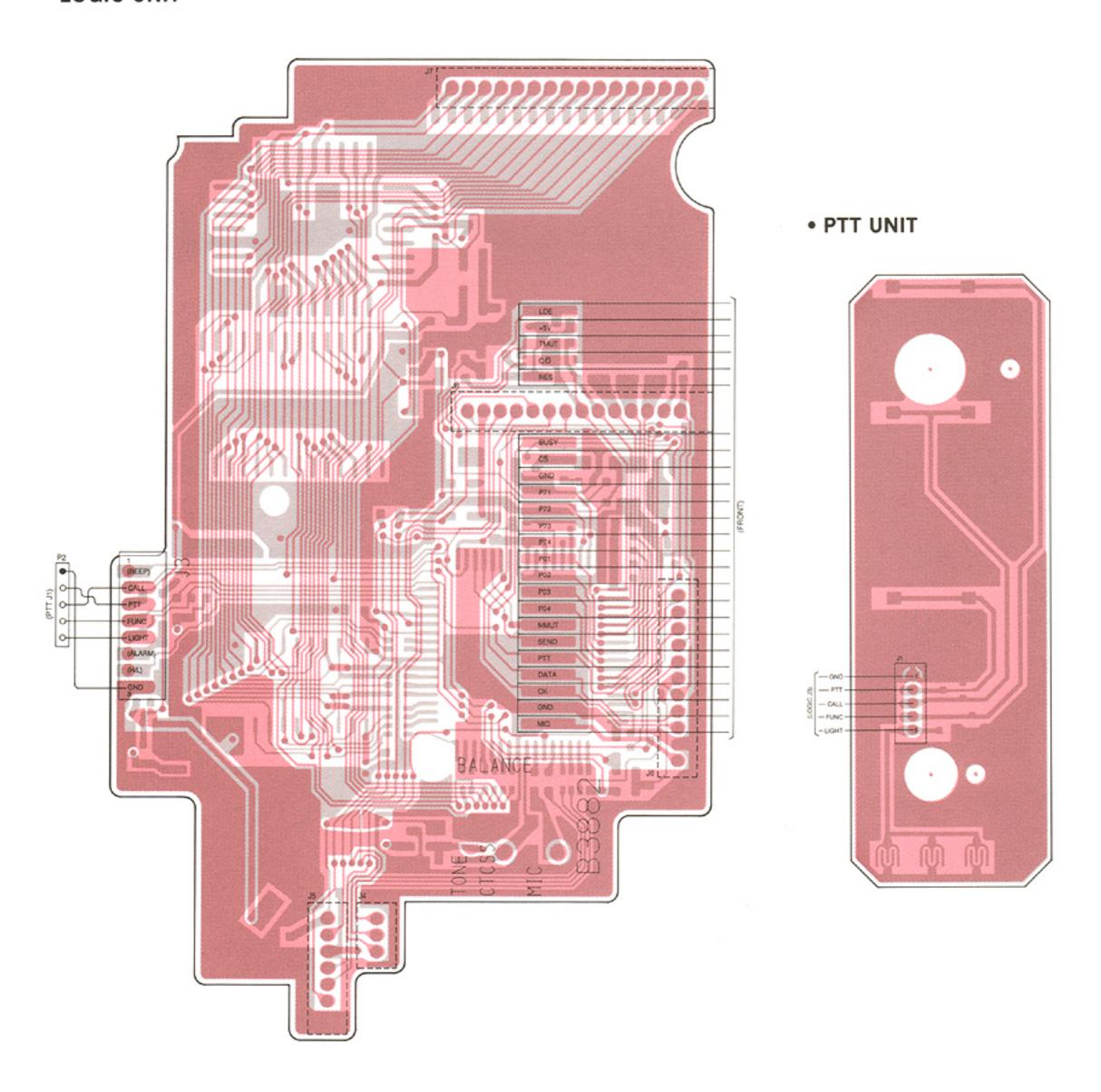








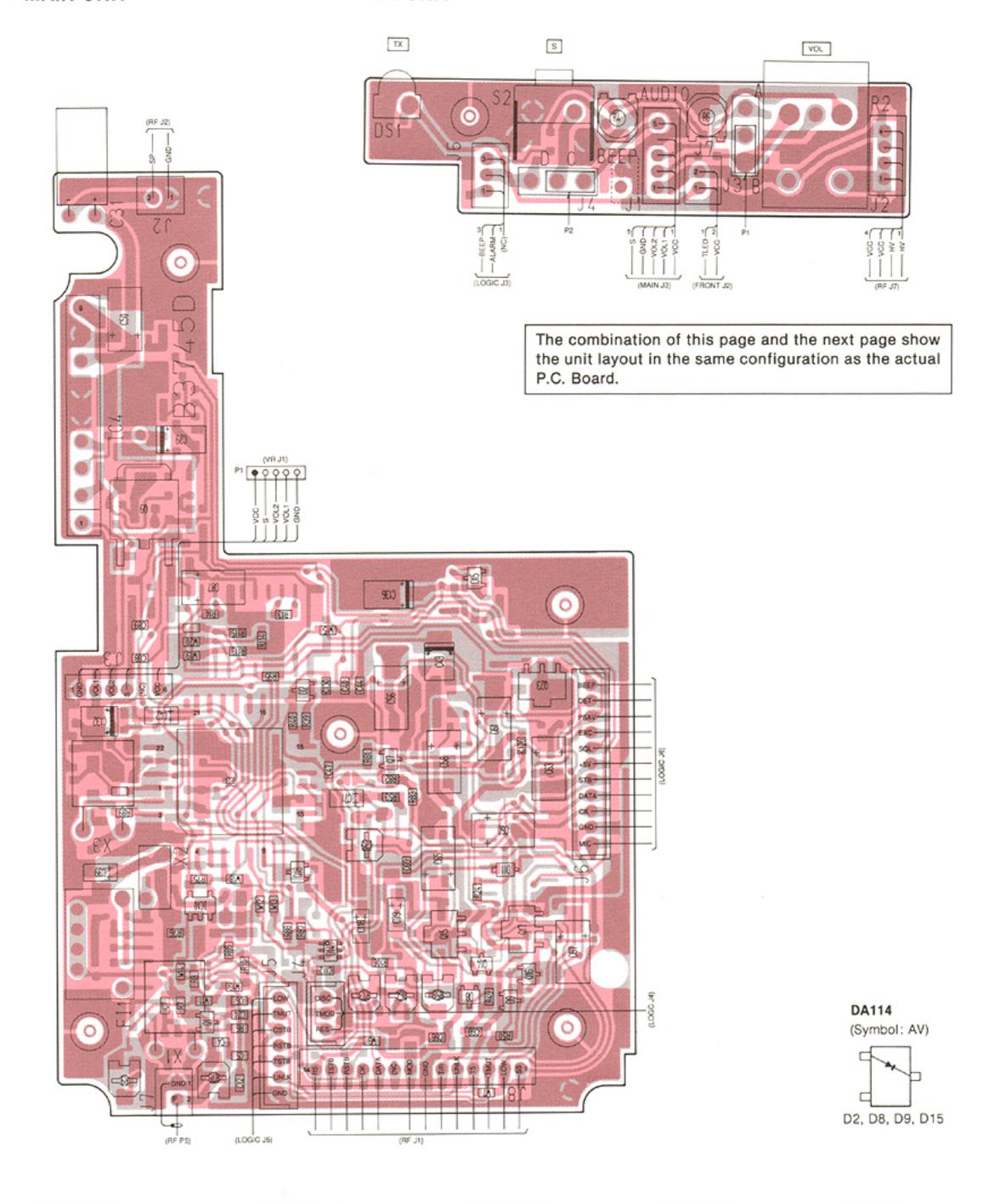
LOGIC UNIT

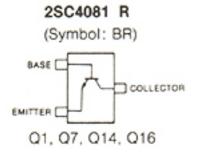


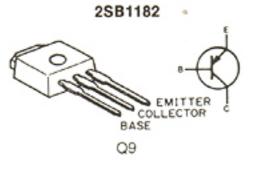
7-3 MAIN UNIT

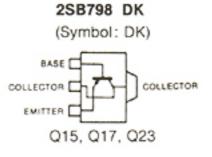
MAIN UNIT

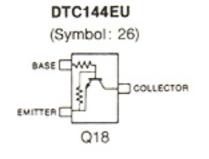
VR UNIT

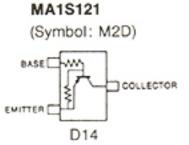




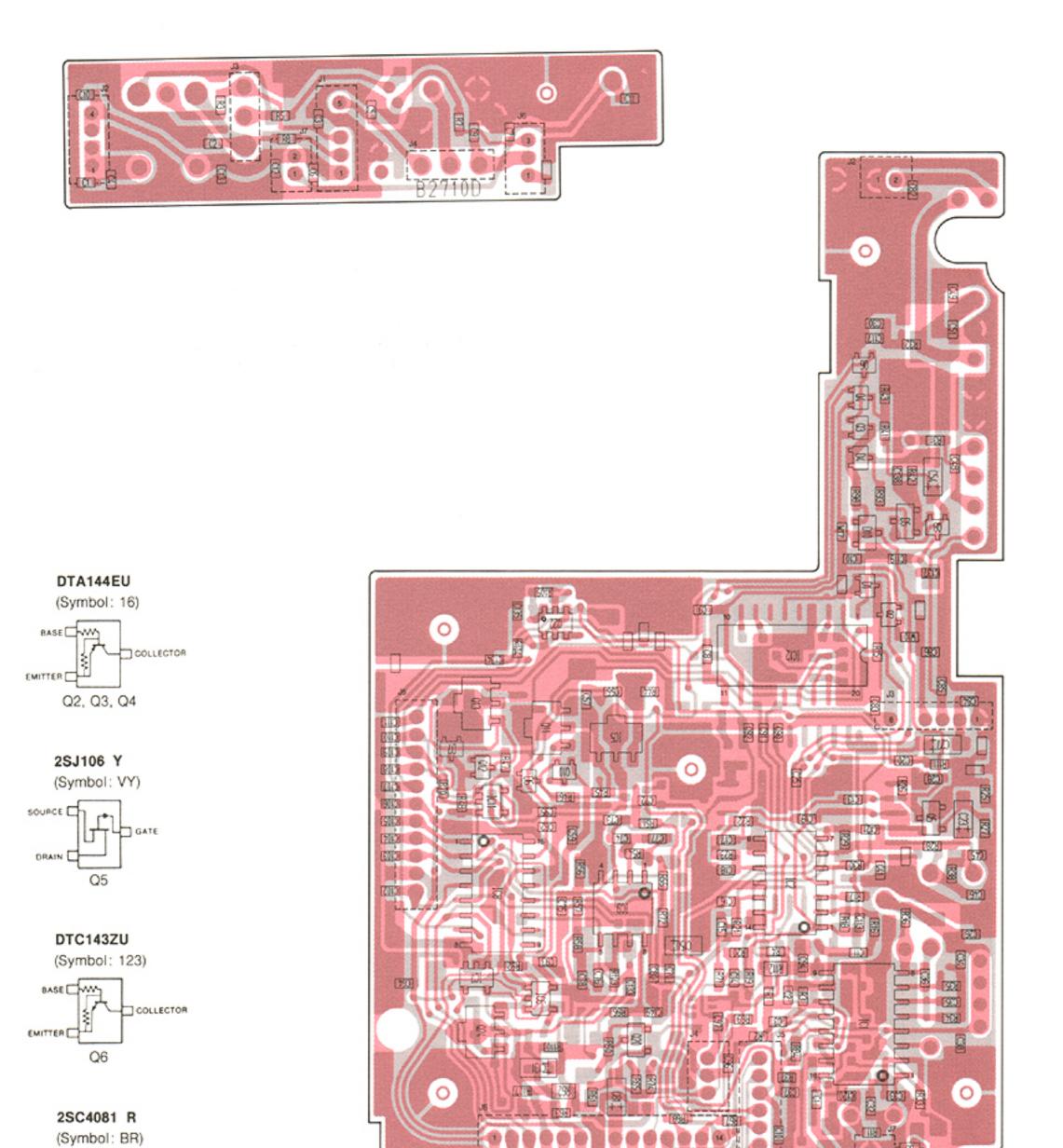


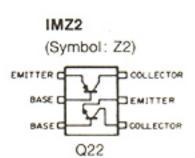






VR UNIT
 MAIN UNIT



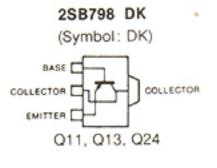


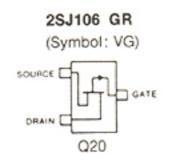
Q8, Q10, Q12

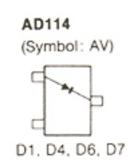
COLLECTOR

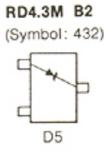
BASE 🗀

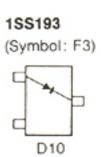
EMITTER [







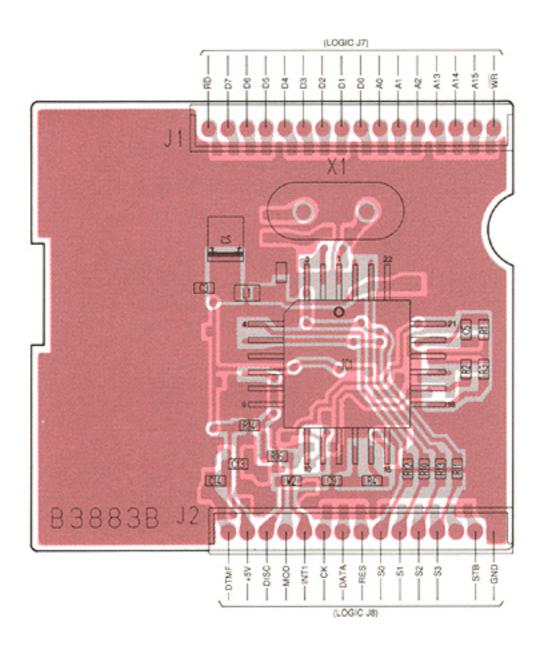




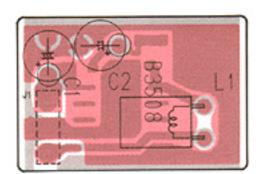
7-4 TONE UNIT

• TONE UNIT (#01-#06, #09-#13)

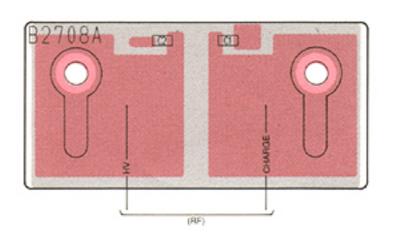
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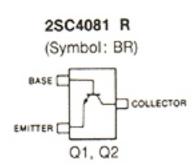
DC-DC BOARD

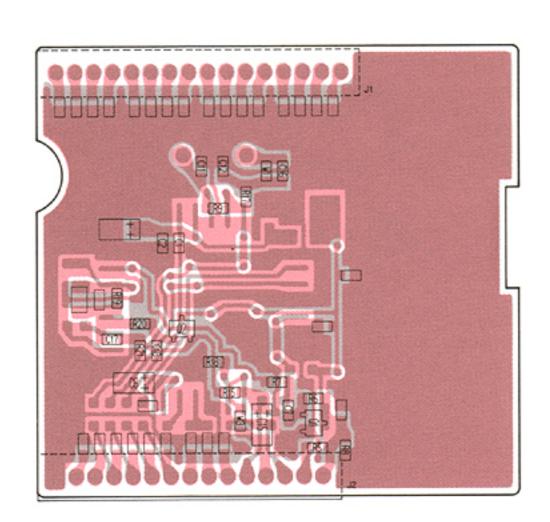


• TANSHI UNIT

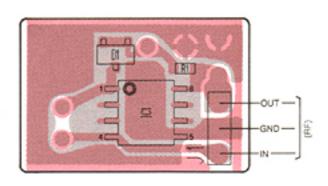


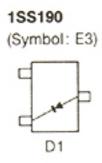
• TONE UNIT (#01-#06, #09-#13)





• DC-DC BOARD

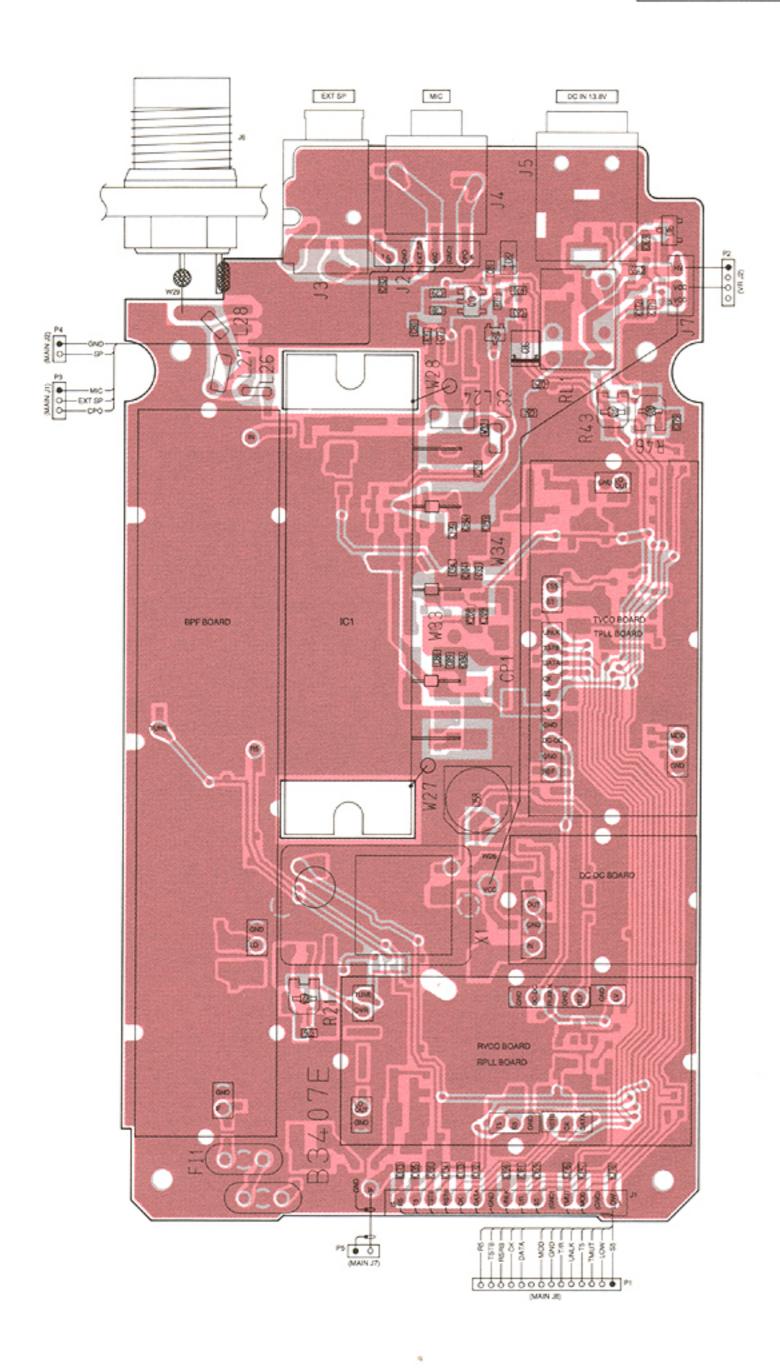




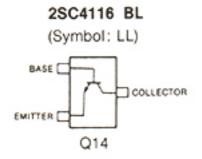
7-5 RF UNIT

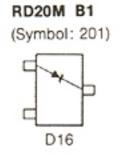
RF UNIT

The combination of this page and the next page show the unit layout in the same configuration as the actual P.C. Board.



FMS1 (Symbol: SI) BASE1 COLLECTOR1 MITTER COLLECTOR2





• TVCO BOARD

• TPLL BOARD

2SC3585 R44

(Symbol: R44)

Q1 (#01, #02, #10,

2SC3356 R25

(Symbol: R25)

Q1 (#03-#09, #11,

#13, #15, #16)

BASE -

EMITTER [

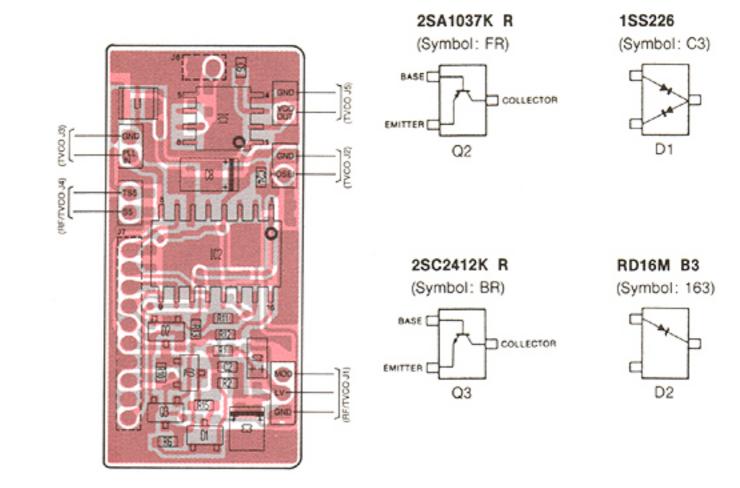
#12, #14, #17, #18)

COLLECTOR

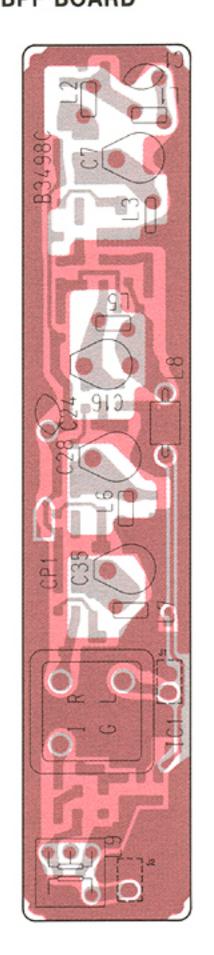
COLLECTOR

BASE -

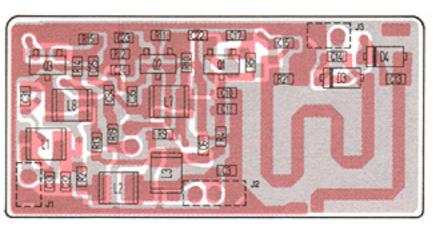
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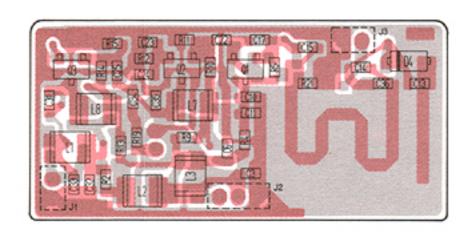
• BPF BOARD

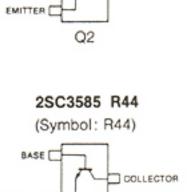


• RVCO BOARD (#01-#06, #09-#18)



• RVCO BOARD (#07, #08)





Q3

2SC3356 R25 (Symbol: R25)

Q1

2SC3356 R24 (Symbol: R24)

COLLECTOR

COLLECTOR

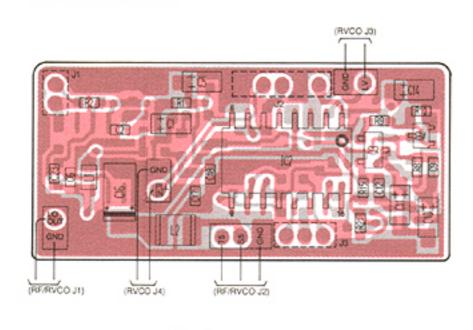
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BASE 📑

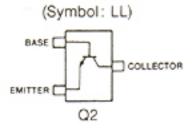
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EMITTER [

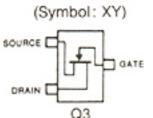
• RPLL BOARD



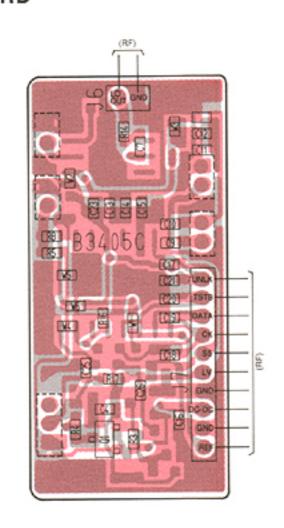
2SC4116 BL



2SK209 Y



• TPLL BOARD



TVCO BOARD

2SC3585 R44 (Symbol: R44)

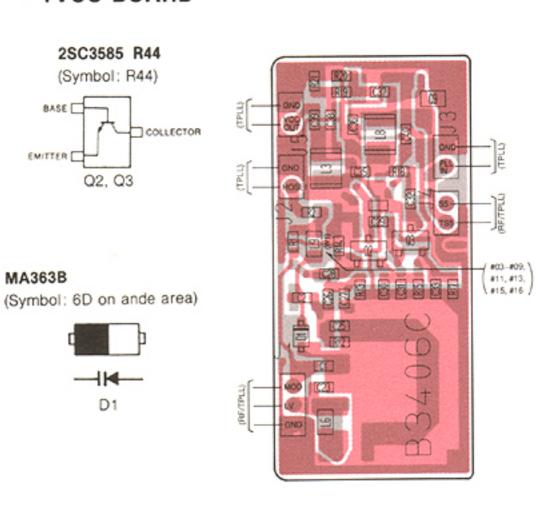
Q2, Q3

D1

BASE [

EMITTER -

MA363B

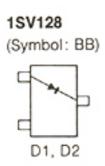


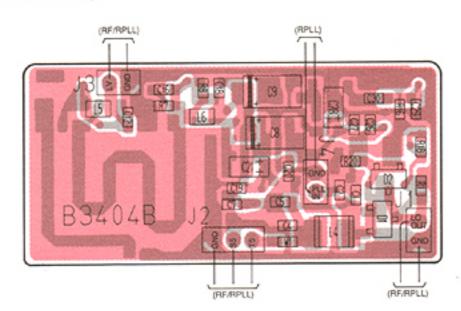
2SK209 Y (Symbol: XY) SOURCE -- GATE

Q1 (#01, #02, #10, #12, #14, #17, #18)

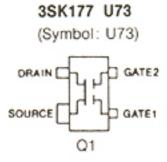
DRAIN

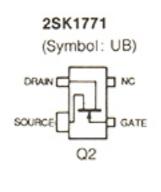
• RVCO BOARD (#01-#06, #09-#18)





BPF BOARD





MA862

(Symbol: M1I)

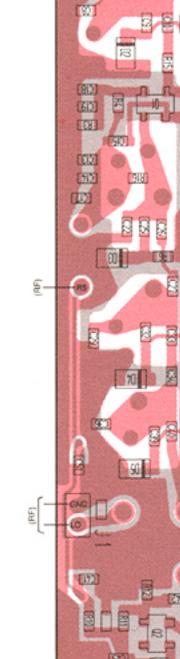
D1

1SV164

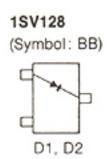
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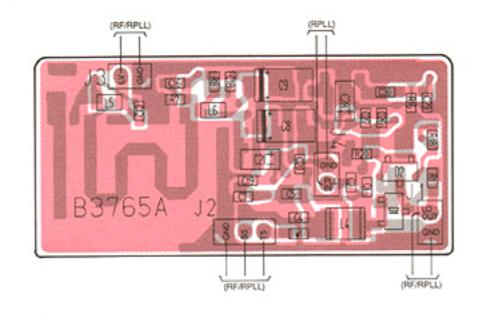
orange line

D2, D3, D4, D5

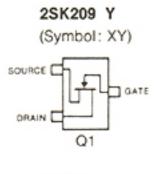


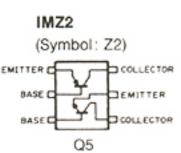
• RVCO BOARD (#07, #08)

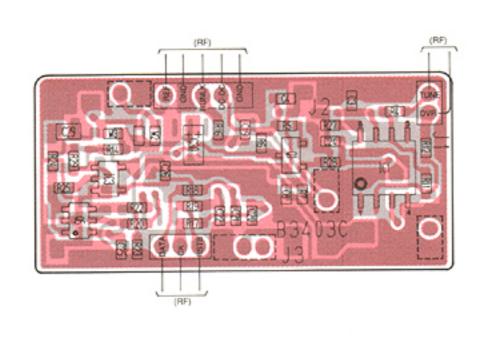




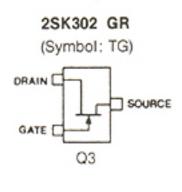
• RPLL BOARD

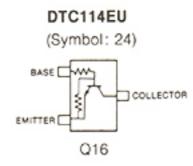


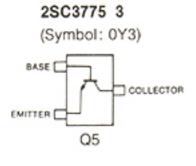


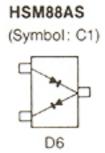


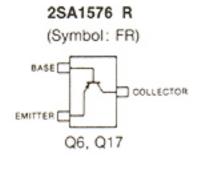
• RF UNIT

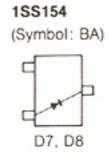


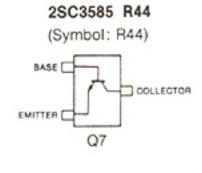


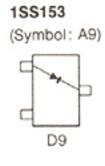


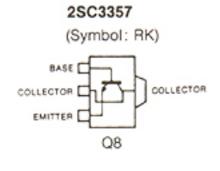


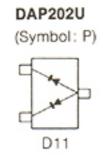


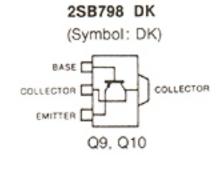


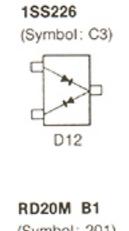


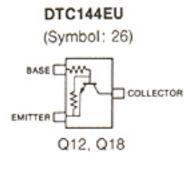


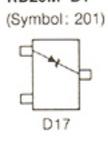


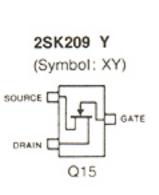


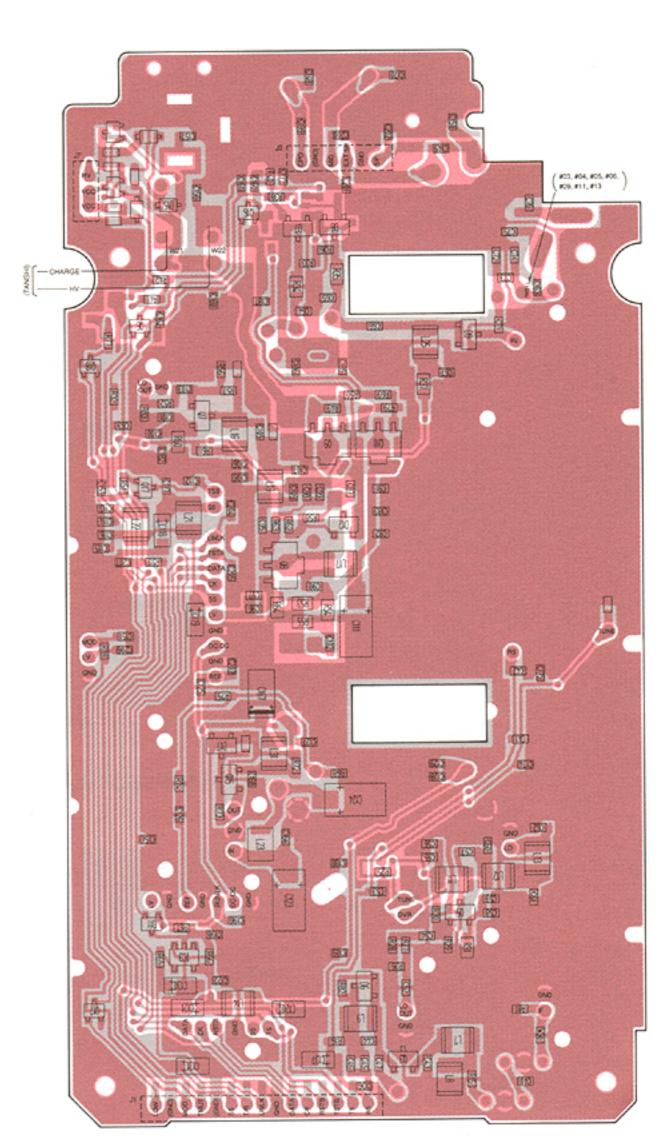


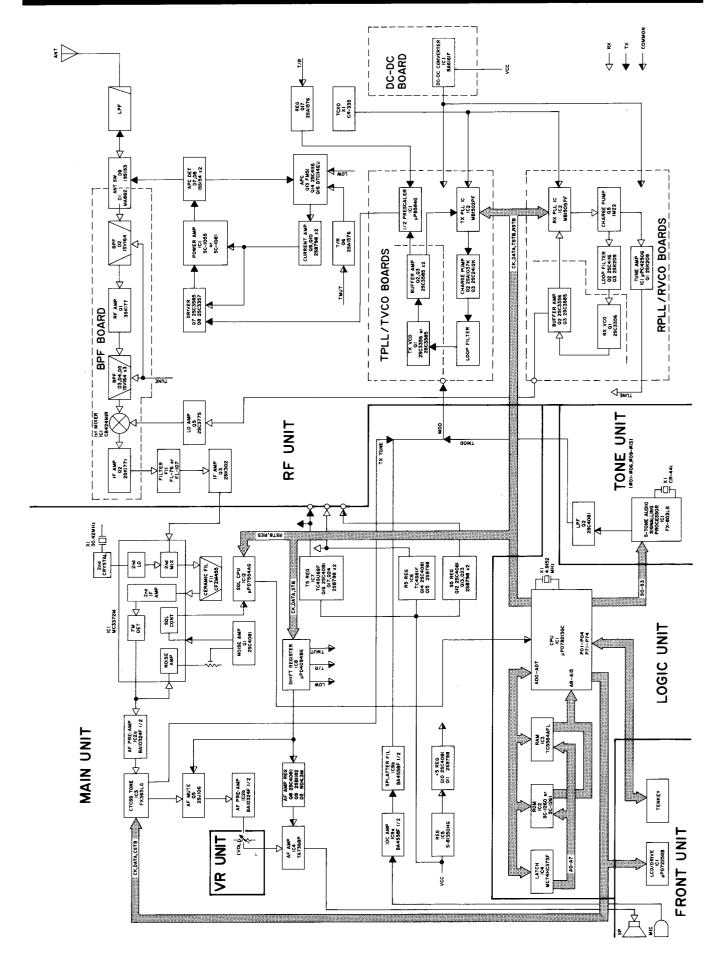




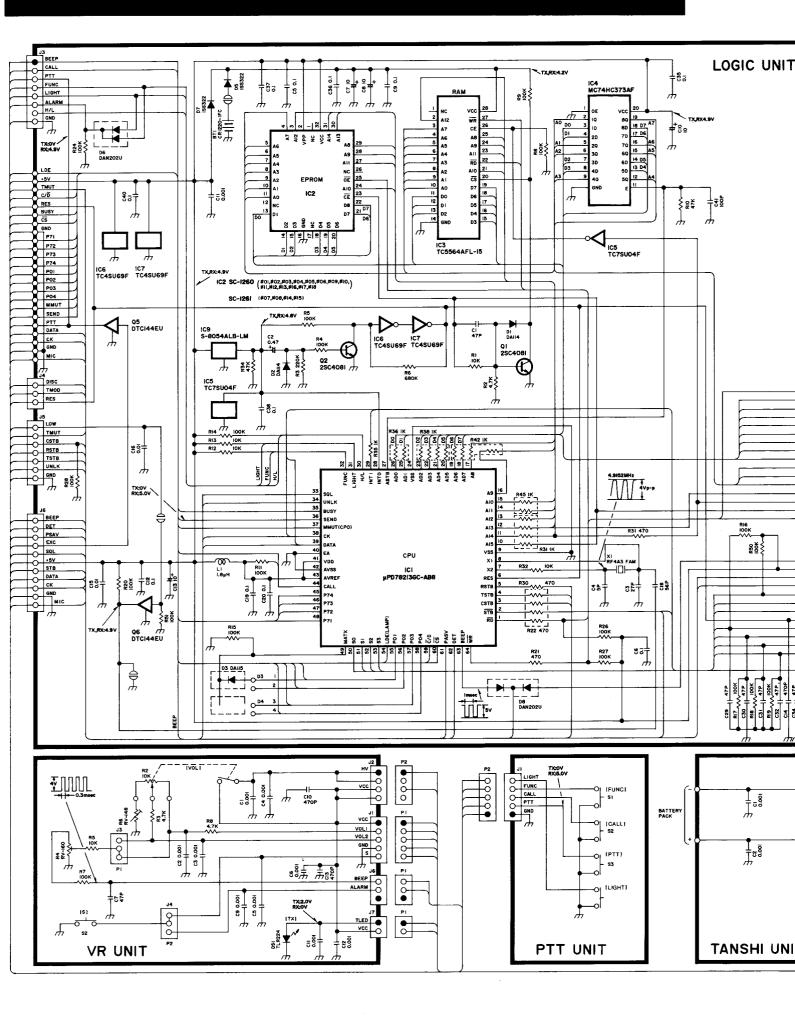


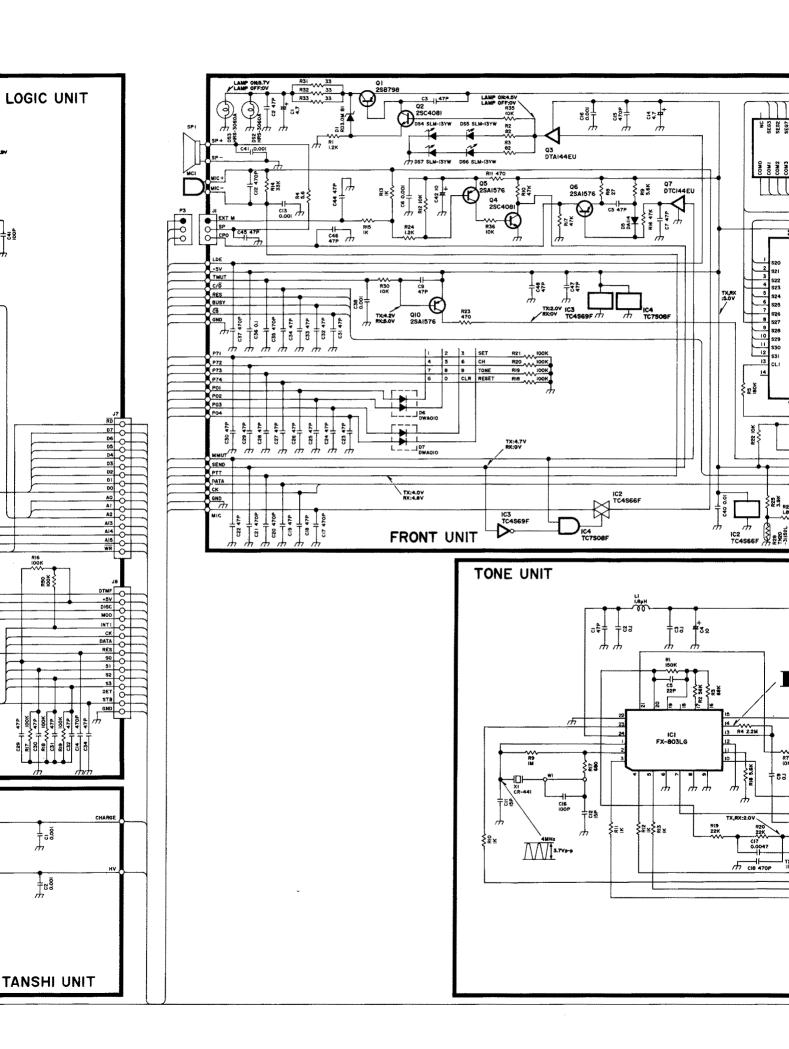


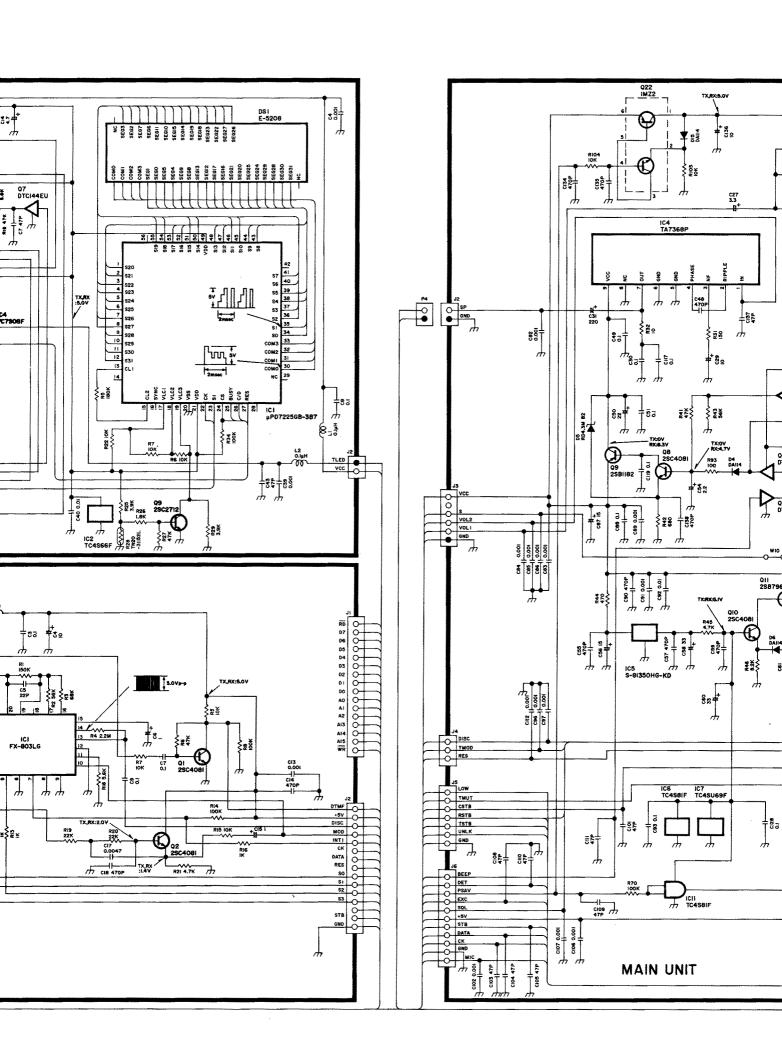


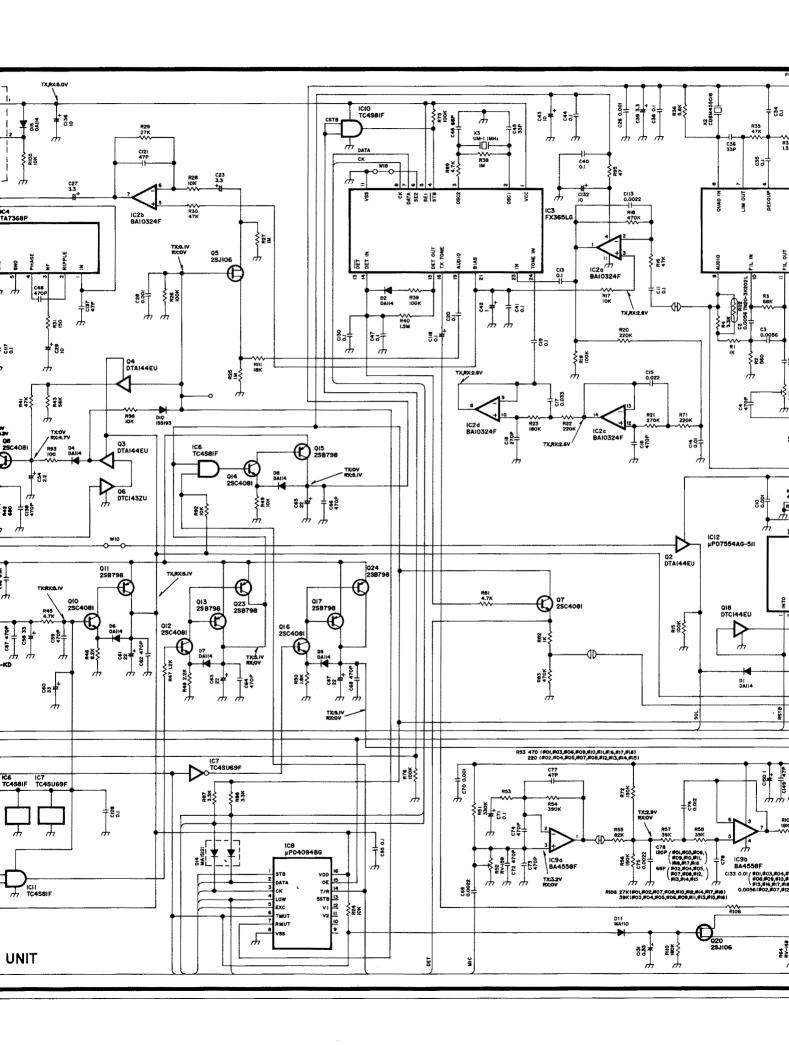


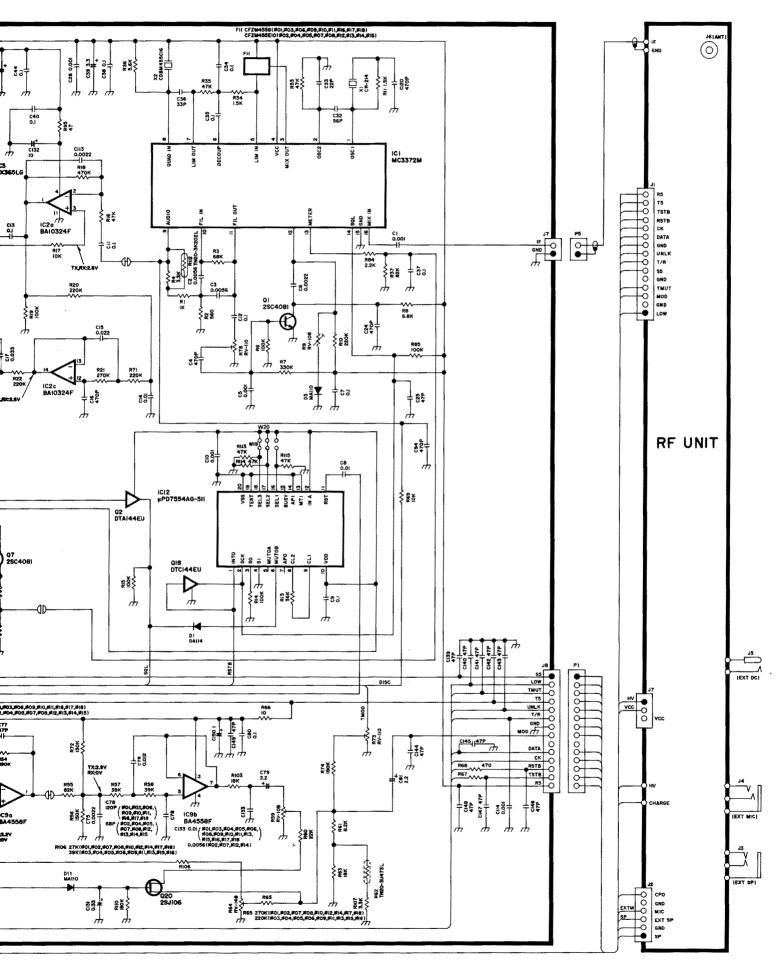
SECTION 9 VOLTAGE DIAGRAM

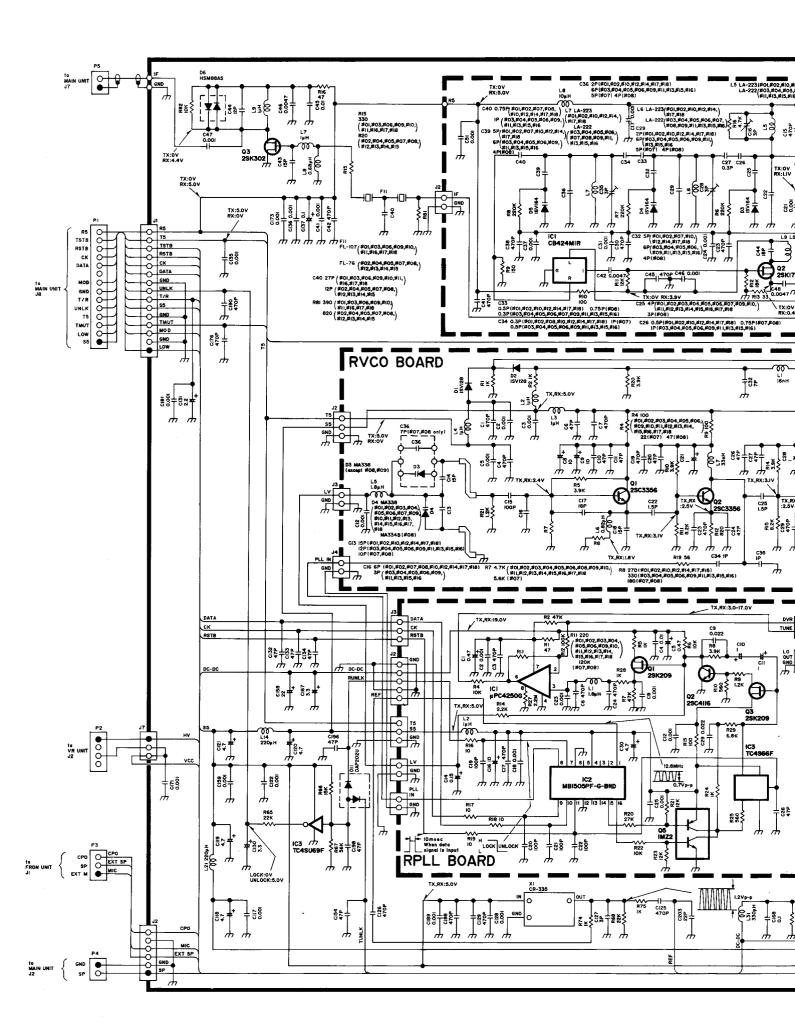


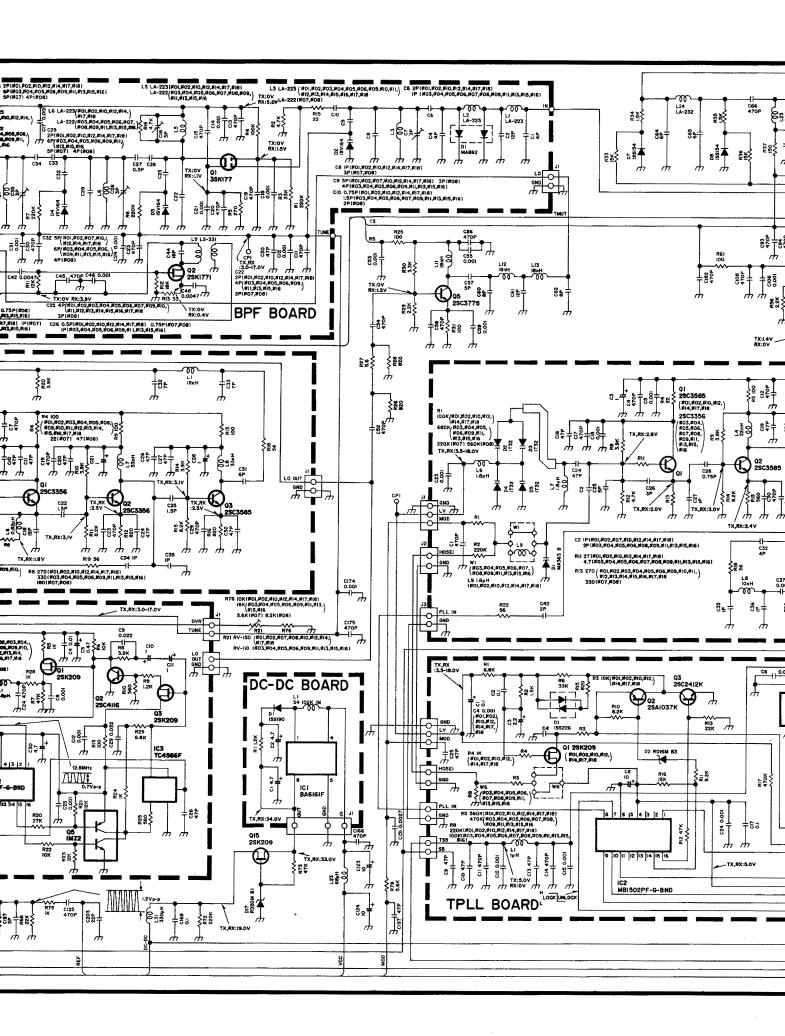


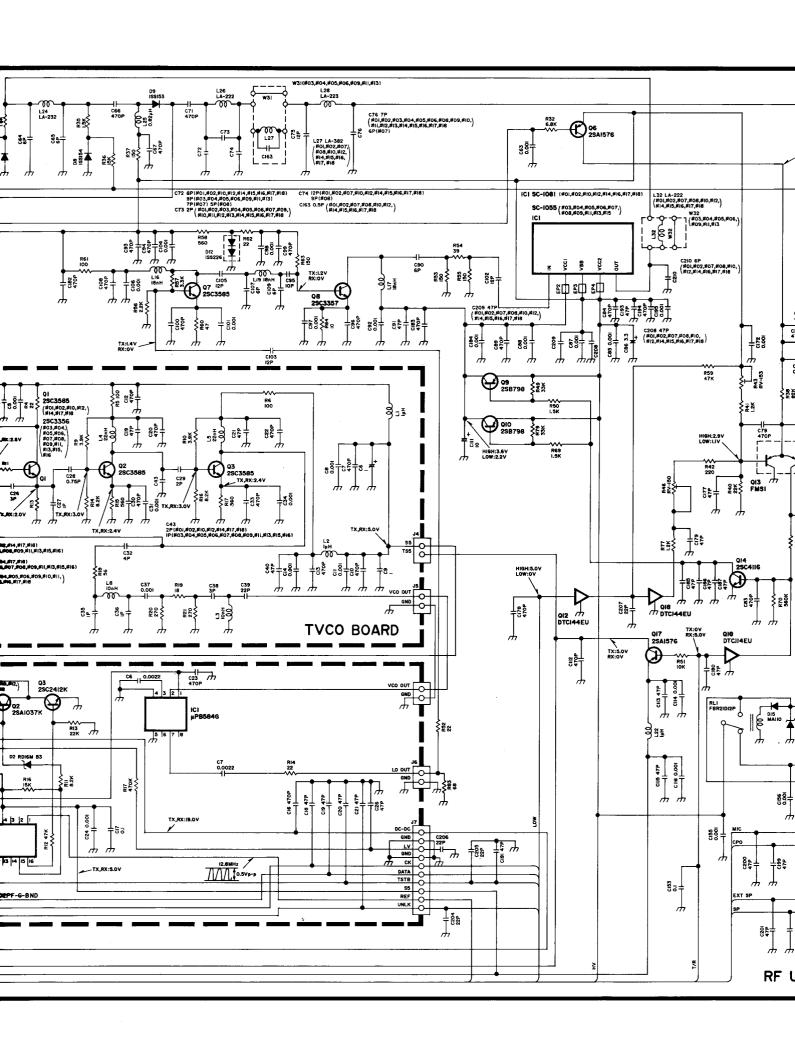


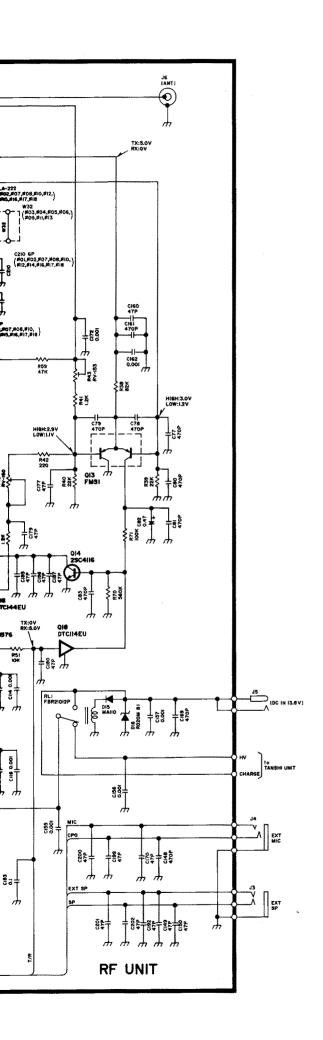












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