Icom Inc.

RECEIVER FOR COMPUTER IC-PCR1000

COMMUNICATION

SERVICE MANUAL

O ICOM

INTRODUCTION

This service manual describe the latest service information for the IC-PCR1000 COMMUNICATION RECEIVER FOR COMPUTER at the time of publication.

MODEL	VERSION	SYMBOL
IC-PCR1000	U.S.A Europe	USA EUR
IC-PCR1000	Other	OTH

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

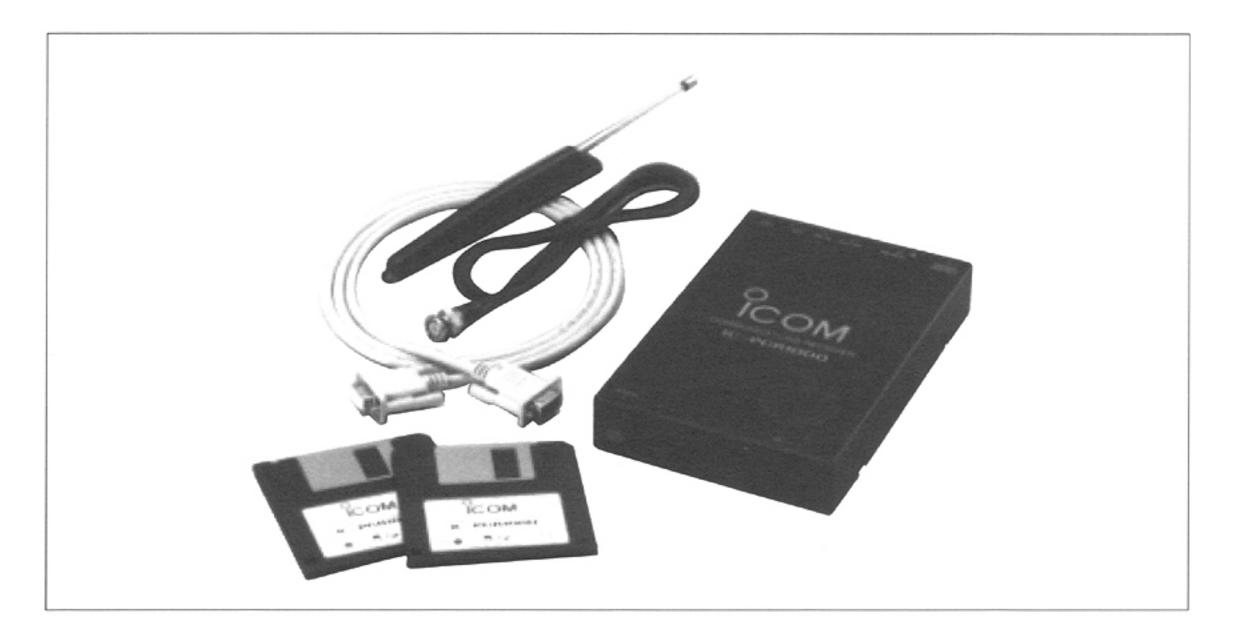
DANGER

NEVER connect the receiver to an AC outlet or to a DC power supply that uses more than 16 V. Such a connection could cause a fire hazard and/or electric shock.

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

DO NOT reverse the polarities of the power supply when connecting the receiver.

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

1130003830 S.IC TC7S04F IC-PCR1000 RF UNIT 1 piece 8810008960 Screw FH M2.6 × 5 ZK IC-PCR1000 CHASSIS 8 pieces

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

REPAIR NOTES

- Make sure a problem is internal before disassembling the receiver.
- DO NOT open the receiver until the receiver 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.
- DO NOT keep power ON for a long time when the receiver is defective.
- READ the instructions of test equipment thoroughly before connecting equipment to the receiver.

		TABLE OF CONTENTS
SECTION	1	SPECIFICATIONS
SECTION	2	INSIDE VIEW
SECTION	3	DISASSEMBLY INSTRUCTIONS
SECTION	4	CIRCUIT DESCRIPTION
	4 - 1	RECEIVER CIRCUITS
	4 - 2	PLL CIRCUITS
	4 – 3	SCOPE CIRCUIT
	4 – 4	POWER SUPPLY CIRCUITS
	4 – 5	CPU PORT ALLOCATIONS
SECTION	5	ADJUSTMENT PROCEDURES
	5 – 1	PREPARATION BEFOR SERVICING
	5 – 2	PLL ADJUSTMENT AND IF PEAK ADJUSTMENT
	5 – 3	RECEIVER ADJUSTMENT
	5 – 4	SOFTWARE ADJUSTMENT
SECTION	6	PARTS LIST
SECTION	7	MECHANICAL PARTS AND DISASSEMBLY
SECTION	8	SEMI-CONDUCTOR INFORMATION
SECTION	9	BOARD LAYOUTS
	9 – 1	LOGIC UNIT
	9 - 2	RF UNIT
SECTION	10	BLOCK DIAGRAM
SECTION	11	VOLTAGE DIAGRAM
	11 – 1	LOGIC UNIT
	11 – 2	RF UNIT

SECTION 1 SPECIFICATIONS

GENERAL

• Frequency range

 Frequency range 	: Version	Frequency Range (MHz)	
	U.S.A.	0.010000 - 823.999999* 849.000001 - 868.999999 894.000001 - 1300.000000	
	Europe and others	0.010000 - 1300.000000*	
	*Specifications of	guaranteed 0.5-1300 MHz only	
• Mode	: USB, LSB, CV	W, AM, FM, WFM	
 Frequency stability 	: ±3 ppm (at 13	300 MHz: ±0°C to +50°C; +32°F to +122°F)	
 Frequency resolution 	: 1 Hz (minimum)		
 Power supply requirement 	: 13.8 V DC ±15	5 % for receiver unit; or, supplied AC adaptor (negative ground)	
Current drain (at 13.8 V DC)	: Power ON (PC	C power OFF) 0.1 A	
	Max. audio	0.7 A	
	Standby (sque	elched) 0.6 A	
 Usable temperature range 	: ±0°C to +50°C	C; +32°F to +122°F	
 Antenna connector 	: BNC (50 Ω)		
 RS-232C connector 	: D-sub 9-pin (fe	female)	

- Usable temperature ra Antenna connector
- RS-232C connector

- Dimensions
- (projections not included)
- Weight

■ RECEIVER

• Receive system Intermediate freq

: Triple-conversion superheterodyne 266.7 MHz

10.7 MHz

450 kHz (except WFM)

: 127.5(W)×30(H)×199(D) mm;

5(W)×13/16(H)×727/32(D) inch

: approx. 1 kg; 2 lb 3 oz

uency	: 1st	
	2nd	
	3rd	

· Sensitivity (typical)*

Frequency [MHz]		FM	WFM	AM	SSB/CW
0.5 –	1.799999			2.5 µV	0.56 µV
1.8	27.999999				0.00.14
28.0 -	29.999999	0.5 µV	1	1.4 μV	0.28 µV
30.0 -	49.999999	0.5 μν		1.8 µV	0.35 µV
50.0 - 6	99.999999	0.32 µV	0.79 µV	1.0 μV	0.2 μV
700.0 -13	00.000000	0.4 µV	1.0 μV	1.3 µV	0.25 μV

*FM and WFM are measured at 12 dB SINAD; AM, SSB and CW are measured at 10 dB S/N.; 230 kHz (for WFM), 15 kHz (for FM), 6 kHz (for AM) and 2.8 kHz (for SSB/CW) passband widths are selected.

 Squelch sensitivity (at threshold) 	: Frequency [MHz]	FM	WFM	AM	SSB/CW
	0.5 - 1.799999			1.8 µV	14 µV
	1.8 - 27.999999				
	28.0 - 29.999999	0.63 µV		0.89 µV	7.1 μV
	30.0 - 49.999999	0.05 μν			
	50.0 - 699.999999	0.5 µV	5.6 μV	0.71 μV	5.6 µV
	700.0 -1300.000000	0.63 µV	7.1 µV	0.89 µV	7.1 μV
Selectivity	WFM/FM/AM 50	0 kHz/6 dB kHz/6 dB kHz/6dB			

6 kHz/--6 dB

- AM/SSB/CW 2.8 kHz*/-6 dB (*Software indicates 3 kHz) : More than ±1.2 kHz
- IF shift range
- : 200 mW at 10% distortion with an 8Ω load Max audio output

FM/AM/SSB/CW

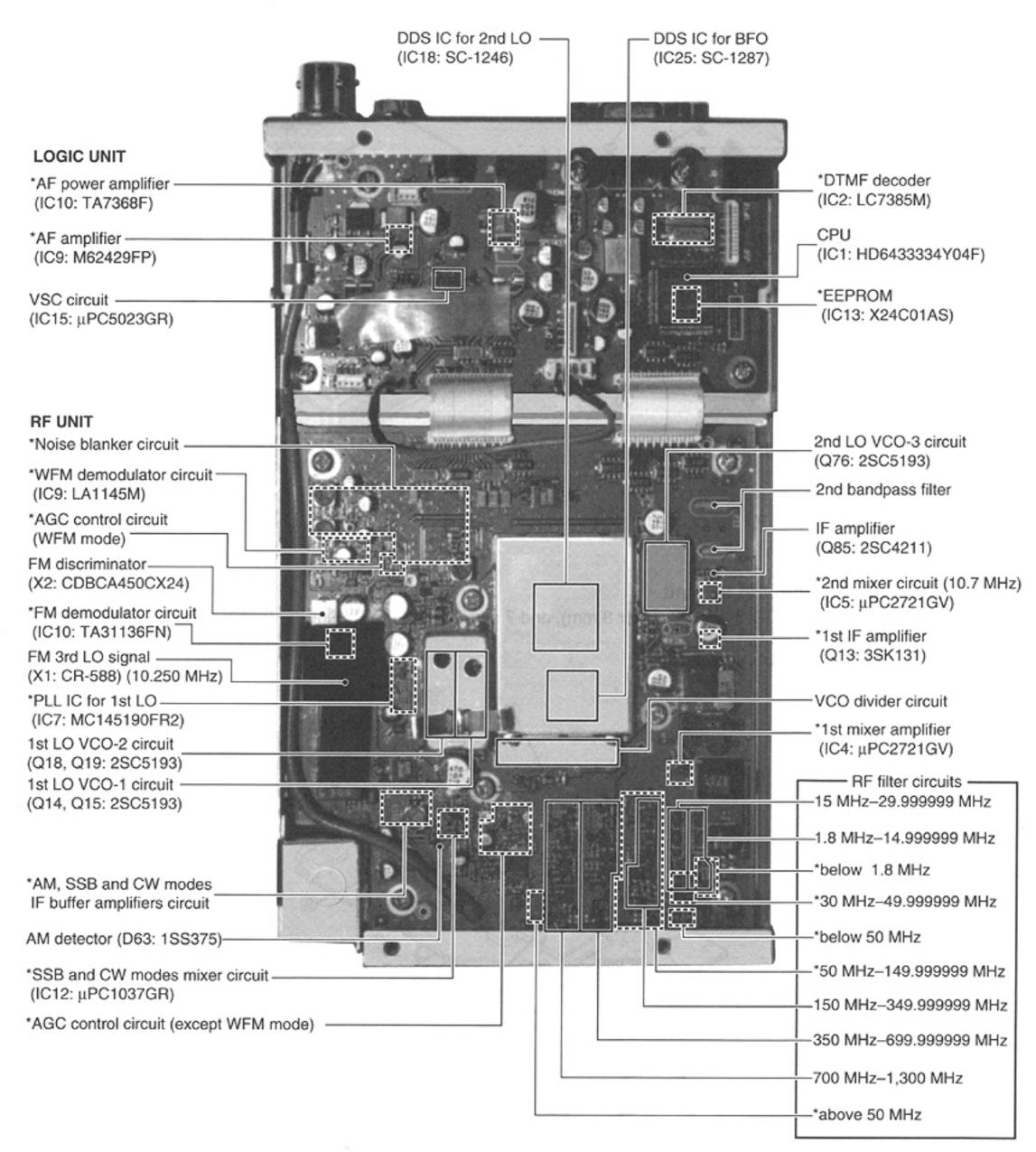
• External speaker connector : 3-conductor 3.5(d) mm (1/8")/4-8 Ω

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

SECTION 2 INSIDE VIEW

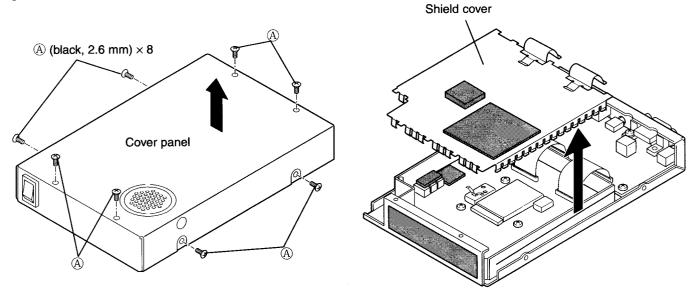
LOGIC UNIT and RF UNIT

* : Located underside of this point.



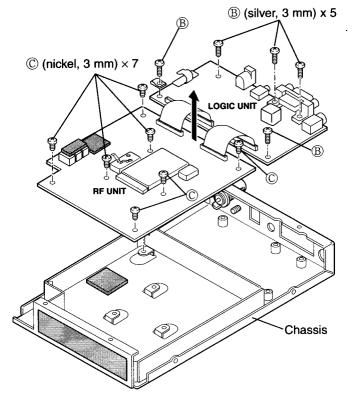
SECTION 3 DISASSEMBLY INSTRUCTIONS

- Removing the cover panel
- 1 Unscrew 8 screws, (A).
- 2 Remove the cover panel in the direction of the arrow.
- ③ Remove the shield cover in the direction of the arrow.



• Removing the LOGIC unit and RF unit

- ① Unscrew 5 screws from the LOGIC unit, (B) (silver 3 mm), and 7 screws from the RF unit, (C) (nickel, 3 mm), to separate the chassis and units.
- ② Remove the units in the direction of the arrow.



SECTION 4 CIRCUIT DESCRIPTION

4-1 RECEIVER CIRCUITS 4-1-1 RF ATTENUATOR CIRCUIT (RF UNIT)

The attenuator circuit attenuates the signal strength to approx. 20 dB to protect the RF amplifier from distortion when excessively strong signals are received.

The RF signals from the antenna connector are passed through or bypass the "L" type attenuator (R1, R3). The signals are then applied to the RF filter circuit.

4-1-2 RF FILTER CIRCUIT (RF UNIT)

The applied signals pass through either the low-pass filter or the high-pass filter circuits via the band switching diodes.

• RF signals below 50 MHz

The RF signals below 50 MHz are passed through the lowpass filter (L1, L2, C7–C11) via the band switching diode (D2). The filtered signals are applied to the HF RF circuit.

• RF signals above 50 MHz

The RF signals above 50 MHz are applied to the high-pass filter (L172, C651, C652) after passing through the band switching diode (D84). The filtered signals are then applied to the VHF/UHF RF circuit.

4-1-3 HF RF CIRCUIT (RF UNIT)

The HF RF circuit amplifies the received signals within the range 0.01–50 MHz and filters out-of-band signals.

The HF RF circuit consists of three low-pass filters, three high-pass filters and one RF amplifier.

The filtered signals below 1.8 MHz from the RF filter circuit are passed through the low-pass filter (L3, L4, C14– C16) between the band swithing diodes (D6, D36), and are then applied to the 1st mixer circuit (IC4).

The 1.8–14.999999 MHz signals pass through the low-pass filter (L6, L7, C21–C25) and high-pass filter (L8, L9, C26–C30) between the band switching diodes (D3, D7), and are then applied to the 1st mixer circuit after being amplified at the RF amplifier (Q12).

The 15–29.999999 MHz signals pass through the low-pass filter (L10, L11, C33–C37) and high-pass filter (L11, L12, C38–C42) between the band switching diodes (D3, D7), and are then applied to the 1st mixer circuit via the RF amplifier circuit (Q12).

The 30–49.999999 MHz signals pass through the high-pass filter (L14, L15, C45–C49) between the band switching diodes (D8, D5), and are then applied to the 1st mixer circuit via the RF amplifier circuit (Q12).

• Filters

Receive freq. (MHz)	SW diode	Filter select signal	Components
0.01-1.799999	D6, D36	B0	L3-L5, C14-C17
1.8-14.999999	D3, D7	B1	L6-L9, C21-C30
15.0-29.999999	D3, D7	B2	L10-L13, C33-C42
30.0-49.999999	D8, D5	B3	L14, L15, C45–C49

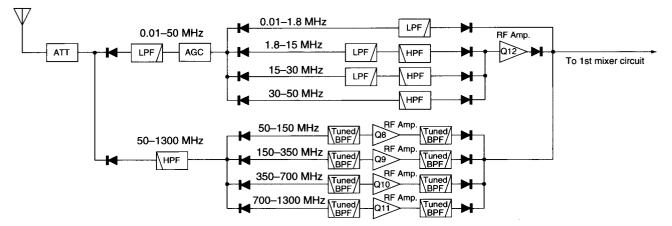
4-1-4 VHF/UHF RF CIRCUIT (RF UNIT)

The VHF/UHF RF circuit amplifies the received signals within the range 50–1300 MHz and filters out-of-band signals.

The VHF/UHF RF circuit consists of 4 bands of filter circuits with an RF amplifier for each.

The 50–149.999999 MHz signals from the RF filter pass through high-pass filter (D11, L17, C53–C55, D12, D82, D83, L18, C57) via the band switching diode (D10), and are then amplified at the RF amplifier (Q8) between the tunable bandpass filters (D13, D80, L19–L21, D14, D81, L23–L25). The filtered signals are applied to the 1st mixer circuit (IC4) via the band switching diode (D15).

For improving the characteristic of the bandpass filter circuit, the shift switch (Q84) shifts the cut off frequency of the highpass filter (D12, D82, D83, L18, C57). The shift switch (Q84) is controlled by the VCO 1 signal from the DDS IC (IC18).



• RF filter and amplifier circuits

The 150-349.999999 MHz signals from the band switching diode (D16) pass through the high-pass filter (L27-L29, C69-C74) and tunable bandpass filter (D18, L31-L33), and are then amplified at the RF amplifier (Q9) and pass through another tunable bandpass filter (D19, L35-L37). The filtered signals are applied to the 1st mixer circuit (IC4) via the band switching diode (D20).

The 350-699.999999 MHz signals from the band switching diode (D21) pass through the high-pass filter (L40, C92-C94, C619) and tunable bandpass filter (D23, D76, L41, L42). The filtered signals are then amplified at the RF amplifier (Q10) and pass through the tunable bandpass filters (D24, D77, L45-L47). The filtered signals are applied to the 1st mixer circuit (IC4) via the band switching diode (D25).

The 700-1300 MHz signals from the band switching diode (D26) pass through the high-pass filter (L141, C110, C606) and 2-stage tunable bandpass filters (D78, D79, L163, D29, D30, L51-L53). The filtered signals are then amplified at the RF amplifier (Q11) and pass through the tunable bandpass filters (D31, D32, L55, L56). The filtered signals are applied to the 1st mixer circuit (IC4) via the band switching diode (D33).

The tunable bandpass filters employ varactor diodes to tune the center frequency of the RF passband for wide bandwidth receiving and good image response rejection. These diodes are controlled by TUNV signal from the CPU (LOGIC unit; IC1, pin 37) via the tune controller (LOGIC unit; IC11b).

Tunable bandpass filters

Receive freq.	BPF select	Varactor	RF
(MHz)	signal	diodes	amp.
50.0-149.999999	B0	D11–D14, D80–D83	Q8
150.0-349.999999	B1	D18, D19	Q9
350.0-699.999999	B2	D23, D24, D76, D77	Q10
700.0-1300.0	B3	D29–D32, D78, D79	Q11

IF and demodulator circuits

4-1-5 1ST MIXER CIRCUIT (RF UNIT)

The 1st mixer circuit converts the received RF signals to a fixed frequency of the 1st IF signal with a PLL output frequency. By changing the PLL frequency, only the desired frequency will pass through the bandpass filters at the next stage of the 1st mixer.

The filtered RF signals are mixed with 1st LO signals at the 1st mixer circuit (IC4) to produce a 266.7 MHz 1st IF signal. The 1st IF signal is output from pin 5, and passed through the bandpass filter (FI1) to suppress unwanted harmonic components. The filtered 1st IF signal is applied to the IF circuit.

The 1st LO signals are generated at the VCO-1 (Q14, Q15) or VCO-2 (Q18, Q19) circuit (according to the receiving frequency band) and are amplified at the buffer amplifier (IC26). The amplified signals are then applied to the 1st mixer (IC4, pin 2) directly or passed through the divider circuit (IC6).

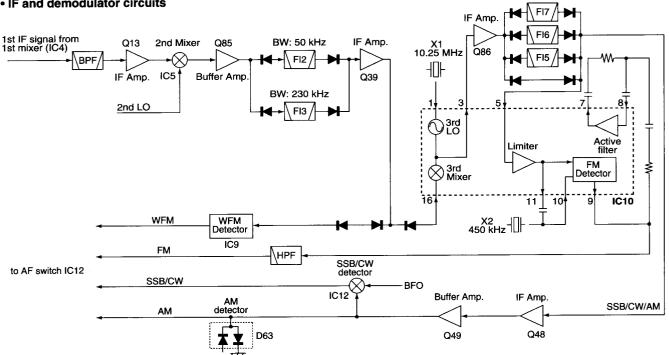
4-1-6 1ST IF AND 2ND MIXER CIRCUITS (RF UNIT) The 2nd mixer circuit converts the 1st IF signal to a 2nd IF

signal.

The filtered 266.7 MHz 1st IF signal from the bandpass filter (FI1) is amplified at the 1st IF amplifier (Q13) then mixed with the 2nd LO signal at the 2nd mixer circuit (IC5) to produce a 10.7 MHz 2nd IF signal. The 2nd IF signal is passed through one of 2 bandpass filters (FI2 or FI3; depending on the selected mode and bandwidth) after being amplified at the IF amplifier (Q85). The filtered 2nd IF signal is amplified at the buffer amplifier (Q39), then applied to the WFM demodulator or 3rd IF circuit.

4-1-7 3RD MIXER CIRCUIT (RF UNIT)

The 3rd mixer circuit mixes the 2nd IF signal and 3rd LO signal to produce a 450 kHz 3rd IF signal (except WFM mode).



The 10.7 MHz 2nd IF signal from the buffer amplifier (Q39) is applied to the 3rd mixer section in the FM IF IC (IC10, pin 16). The applied signal is mixed with a 3rd LO signal generated by X1 (10.25 MHz) to produce a 450 kHz 3rd IF signal.

The 3rd IF signal is output from pin 3, and passed through one of 3 bandpass filters (FI5, FI6 or FI7) or bypassed, according to the selected mode and bandwidth after being amplified at the IF amplifier (Q86). The filtered or bypassed signal is applied to the each demodulator circuit (except WFM mode).

Bandpass filter selection

Modes	Bandpass filter	Passband width
AM, SSB, CW	FI5	2.8 kHz
FM, AM, SSB, CW	F16	6 kHz
FM, AM	F17	15 kHz

4-1-8 DEMODULATOR CIRCUITS (RF UNIT)

The demodulator circuit converts the 2nd IF signal into AF signals. 4 separate demodulator circuits are employed for each mode.

(1) WFM mode

The 10.7 MHz 2nd IF signal from the buffer amplifier (Q39) is applied to the WFM demodulator circuit (IC9, pin 2).

The applied IF signal is amplified at the IF amplifier section in the IC9 and then output from pin 10. The output signal is applied to the quadrature detector section (pin 11) to demodulate AF signals. The demodulated AF signals are applied to the AF switch circuit via the de-emphasis circuit (R179, C285).

(2) FM mode

The filtered or bypassed 3rd IF signal is applied to the guadrature detector section in the FM IF IC (IC10, pin 10) then mixed with the signal generated by the discriminator (X2) to demodulate AF signals. The AF signals are output from pin 9 and applied to the AF switch circuit via the high-pass filter circuit (IC11).

(3) AM mode

The filtered 3rd IF signal from the one of 3 bandpass filters (FI5, FI6 or FI7) is amplified at the IF and buffer amplifiers (Q48, Q49). The amplified IF signal is applied to the AM detector circuit (D63) to be converted into AF signals, and the AF signals are applied to the AF switch circuit.

AF mute Electronic IC14 switch volume Q56 IC10 FM 10 з Detector <u>12</u> FM5 2 $\frac{1}{1}$ AF Amplifier IC9 IC9 WFM AFWF 8 SP Detector IC10 S1 AM Detector 3 AFAM AF power D63 ATT Amplifier ¥ 5 - AM5 2 AFSB IC12 () SSB/CW 13 SSB5 LOGIC UNIT **RF UNIT** Detector

Squelch and AF amplifier circuits

(4) SSB and CW modes

The amplified 3rd IF signal from the buffer amplifier (Q49) is applied to the mixer circuit (IC12, pin 6) and mixed with the BFO signal generated by the BFO circuit for demodulation. The demodulated AF signals are applied to the AF switch circuit.

4-1-9 AF SWITCH CIRCUIT (RF UNIT)

The demodulated AF signals from the demodulator circuits are applied to the AF switch (IC14). This consists of 4 analog switches which are selected with a mode signal from the CPU (LOGIC unit; IC1) via the I/O expander (IC3). The switched AF signals are applied to the AF circuit.

4-1-10 AF CIRCUIT (RF AND LOGIC UNITS)

The switched AF signals from the AF switch circuit are amplified at the AF amplifier circuit (RF unit; Q56) and then applied to the LOGIC unit.

The AF signals from the RF unit are applied to the electronic volume control circuit (LOGIC unit; IC9a, pin 1). The level controlled AF signals are output from pin 2 and applied to the AF power amplifier (LOGIC unit; IC10, pin 4). The power amplified AF signals are passed through the AF level control switch (LOGIC unit; S1) then applied to the internal speaker via the [EXT SP] jack.

The electronic volume control circuit controls AF gain, therefore, the AF output level varies according to the [VOL] setting and also the squelch conditions.

4-1-11 SQUELCH CIRCUIT (RF AND LOGIC UNITS)

A squelch circuit cuts out AF signals when no RF signal is received or when the S-meter signal is lower than the [SQUELCH] control setting level. By detecting noise components in the AF signals, the CPU controls the electronic volume control circuit.

NOISE SQUELCH

Some noise components in the AF signals from pin 9 of the FM IF IC (IC10) are applied to the noise amplifier section in the IC (IC10, pin 8). The amplified signals are output from pin 7, and applied to the electronic volume control circuit (LOGIC unit; IC9b, pin 8) and level controlled noise components are output from pin 7. The output signals are applied to the noise amplifiers (LOGIC unit; Q6, Q7) to be converted into pulse-type signals, then applied to the CPU (LOGIC unit; IC1, pin 39) as an NOIN signal.

• S-METER SQUELCH

The S-meter signal is applied to the CPU from the meter amplifier circuit (RF unit; IC13a) via the SMAD line, and also the S-meter squelch setting level is applied to the CPU. The CPU compares these signals, then outputs a control signal to the electronic volume control circuit (RF unit; IC9a) to cut out AF signals.

4-1-12 NOISE BLANKER CIRCUIT (RF UNIT)

The noise blanker circuit detects pulse-type noise, and stops IF amplifier operation during detection. The noise blanker function activates only when SSB, CW or AM mode is selected.

A portion of the filtered 2nd IF signal from one of 2 bandpass filters (FI2 or FI3) is amplified at the NB amplifier (Q41) then applied to the WFM IF IC (IC9, pin 2). The applied signal is amplified at the IF amplifier section in the IC, then output from pin 10. The output signal is rectified at the NB detector circuit (D53) to be converted into DC voltage after being amplified at the noise amplifier (Q35). The DC voltage is applied to the NB gate control circuit (Q37, Q38) to control the NB gate (Q40).

Some DC voltage is fed back to the IF amplifier section in the WFM IF IC (IC9, pin 3). The IF amplifier functions as an AGC circuit to reduce average noise. Therefore, the noise blanker function shuts off pulse-type noise only.

4-1-13 AGC CIRCUIT (RF UNIT)

The AGC (Auto Gain Control) circuit reduces IF amplifier gain to keep the audio output at a constant level.

An RSSI signal is used for AGC function from the WFM IF IC (IC9, pin 17) while in WFM mode, or used from the FM IF IC (IC10, pin 12) while in FM, AM, SSB or CW (except WFM) mode.

The RSSI output signal is applied to the IF amplifiers (Q13, Q39) after being amplified at the AGC amplifier (Q33) during WFM operation. In other modes, the RSSI signal is amplified at the AGC amplifier (Q51), passes through the time constant circuit (Q52, Q53, R284, R290, R291, C371–C373) and is then applied to the IF amplifiers (Q13, Q39). The AGC control signal is applied to the VHF/UHF tunable bandpass filters after being amplified at the VHF/UHF AGC amplifier (IC13b).

AGC speed is controlled by changing the time constant at the AGC control line with resistors (R284, R290, R291) and capacitors (C371–C373). R290 and C372 are used for AGC slow, and R284 and C371 are used for AGC fast mode's time constant. However, R291 and C373 are connected to the AGC control line while scanning to obtain the fastest AGC response.

4-1-14 VSC CIRCUIT (LOGIC UNIT)

The VSC (Voice Scan Control) detects AF signals and mutes undesired signals such as unmodulated, beat and noise component signals. When the VSC function is ON and an unmodulated signal is received, squelch functions the same as closed (no signal condition) even when it's open, or the scan function resumes for a short period on any scan setting during scanning. A portion of the AF signals from the AF amplifier (RF unit; Q56) is applied to the VSC control circuit (IC15, pin 16) to detect demodulated signals while the VSC function is ON. When audio (voice) component signals are included in the AF signals, the VSC IC (IC15) outputs a low level signal from pin 13 to the CPU (IC1, pin 45) to release the mute switch (IC9).

4-1-15 S-METER CIRCUIT (RF UNIT)

The S-meter circuit indicates the relative received signal strength while receiving and changes depending on the received signal strength.

A portion of the AGC signal is applied to the meter amplifier circuit (IC13a). The amplified signal is then applied to the CPU (LOGIC unit; IC1, pins 31) as an SMAD signal to drive the S-meter.

The SMAD signal is also used for noise and S-meter squelch operation by comparison with the [SQUELCH] control setting level and received signal strength at the CPU.

4-2 PLL CIRCUITS 4-2-1 1ST LO PLL CIRCUIT (RF UNIT)

The 1st LO circuit generates the 1st LO frequencies, and the signals are applied to the 1st mixer circuit. The 1st LO circuit consists of a VCO-1/2 circuit and PLL IC, etc.

The generated signal from VCO-1 (Q14, Q15) or VCO-2 (Q18, Q19) is applied to the prescaler section in the PLL IC (IC7, pin 11) after being amplified at the buffer amplifiers (IC26, Q27). The applied signal is prescaled in the PLL IC based on the divided ratio (N-data) to produce approx. 50 kHz signals which are applied to the phase detector section.

The generated reference signal from the reference oscillator (X1; 10.25 MHz) is amplified at the buffer amplifiers (Q22, Q42) and is applied to the programmable divider section in the PLL IC (IC7, pin 20). The applied signal is prescaled in the PLL IC based on the divided ratio (1/205) to produce approx. 50 kHz phase signals. The reference phase signals are applied to the phase detector section.

The phase detector section compares 2 of the applied phase signals. The phase detected signals are passed through the charge pump section and then output from pin 6 of the PLL IC. The output signals are applied to the loop filter circuit (Q25, Q26) to be converted into DC voltage as a PLL lock voltage. The lock voltage is applied to the CPU (LOGIC unit; IC1, pin 33) as an L1AD signal to control the VHF/UHF tunable bandpass filter.

4-2-2 2ND LO PLL CIRCUIT (RF UNIT)

The 2nd LO circuit generates the 2nd LO frequencies, and the signals are applied to the 2nd mixer circuit. The 2nd LO circuit consists of a DDS, VCO-3 and loop filter circuit, etc.

The generated signal from VCO-3 (Q76) is divided by 8 at the divider circuit (IC23) after being amplified at the buffer amplifier (Q77). The divided signal is then amplified at IC28, and applied to the DDS circuit (IC18). The DDS circuit generates digital signals using the applied signal as a clock frequency. The phase detector section in the DDS IC compares it's phase with the divided reference frequency (3.41 MHz) which is generated at the reference oscillator (X1).

The D/A converter (R351–R374), bandpass filter (L117, L118, L175, C496–C503) and buffer amplifier (IC19) circuits are connected to the DDS output to convert the digital oscillated signals into smooth analog signals.

4-2-3 BFO CIRCUIT (RF UNIT)

The BFO signals are generated by the DDS circuit (IC25) using the divided reference signal. 10-bit digital signals are converted into 447.3–452.7 kHz analog wave signals at the D/A converter (R423–R442). The converted analog wave signals are passed through the bandpass filter (L99–L101, C269–C274) via the switching diode (D52), then applied to the mixer circuit (IC12).

4-3 SCOPE CIRCUIT

4-3-1 SCOPE RECEIVER CIRCUIT (RF UNIT)

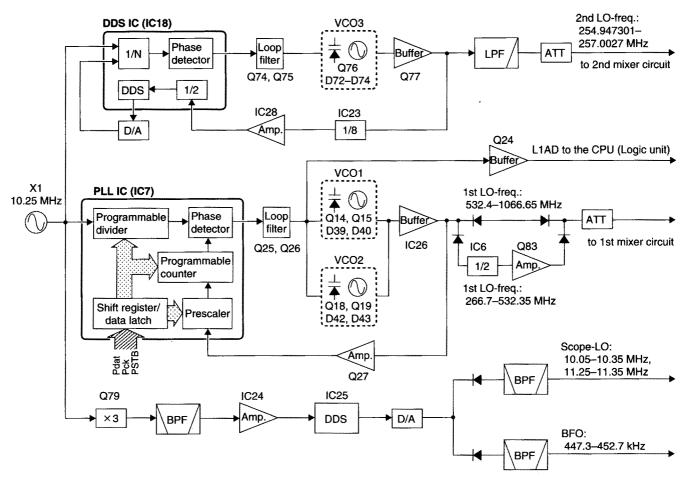
A portion of the 10.7 MHz 2nd IF signal from the 2nd mixer circuit (IC5) passes through the bandpass filter (FI8) to suppress out-of-band signals, and is then mixed with a scope LO signal at the mixer section in the FM IF IC (IC8, pin 15), which includes the RSSI terminal, to produce a 450 kHz scope IF signal. The mixed IF signal is filtered at the ceramic bandpass filter (FI4) then applied to the limiter amplifier section in the FM IF IC (IC8, pin 5). The applied IF signal is converted into DC voltages according to the applied IF signal strength at the RSSI section in the IC.

The converted voltages are applied to the CPU (LOGIC unit; IC1, pin 34) as an SCAD signal.

The sweeping scope LO signals generated by IC25 (10.05– 10.35 MHz/11.25–11.35 MHz) are applied to the mixer section in the FM IF IC, when the scope function is activated.

4-4 POWER SUPPLY CIRCUITS 4-4-1 VOLTAGE LINES (LOGIC UNIT)

Line	Description
ACHV	The voltage from a DC power supply.
нv	The same voltage as the ACHV line which is controlled by the [POWER] switch.
RF+5	Common 5 V line converted from the HV line by the RF+5 regulator circuit (IC5).
RF+8	Common 8 V line converted from the HV line by the RF+8 regulator circuit (IC6).
RF33	Common 33 V line converted from the HV line by the 33 V DC-DC convertor circuit (IC7). The out- put voltage is applied to the PLL circuit (RF unit).
RF–5	Common –5 V line converted from the RF+8 line by the –5 V DC-DC convertor circuit (IC8).
L+5	Common 5 V line converted from the HV line by the L+5 regulator circuit (IC4).



PLL circuits

4-5 PORT ALLOCATIONS

4-5-1 CPU (LOGIC unit; IC1)

Pin number	Port	Description
1	RES	Input port for the reset signal.
	ETAL,	Input ports for the CPU system clock
2, 3	EXTAL	oscillator (X1; 9.8304 MHz).
10	RXD	Input port for data signal from the con- nected PC via the RS-232C interface IC (IC3).
11	TXD	Outputs data signal to the connected PC via the RS-232C interface IC (IC3).
17	ECK	Outputs clock signal to the EEPROM IC (IC13).
18	EDAT	Outputs data signal to the EEPROM IC (IC13).
21	DSTD	Input port for the DTMF latch data.
22–25	DQ4– DQ1	Input ports for the DTMF decode sig- nals.
27	Mck	Outputs serial clock signal for the elec- tronic volume IC (IC9) and output expander ICs (RF unit; IC1– IC3).
28	Mdat	Outputs serial data signal for the elec- tronic volume IC (IC9) and output expander ICs (RF unit; IC1–IC3).
31	SMAD	Input port for S-meter signal.
32	CMAD	Input port for center indicator signal.
33	L1AD	Input port for 1st LO PLL lock voltage.
34	SCAD	Input port for the scope signal.
35	CTAD	Input port for the CTCSS decoded sig- nal.
36	REDA	Output port for reference frequency control voltage.
37	TUDA	Outputs tunable bandpass filter control voltage.
39	NOIN	Input port signal strength detection signal (NOIN; pulse-type).
40	LCT	Input port for unlock signal from the PLL IC (RF unit; IC7). High : PLL unlock
41	POCO	Outputs power switching circuit control signal. High: While turning power ON.
43	VSSW	Output VSC-time constant control sig- nal. High: Modulated signals are received. Low : Unmodulated or beat signals are received or while scanning.
44	VSON	Outputs VSC control signals. Low : When the VSC function is ON.
45	VSC	Input port for VSC detected signals. High: Unmodulated or beat signals are received. Low : Modulated signals are received.
46	AFST	Outputs strobe signals for the volume control IC (IC9).
4850	CON2- CON0	Output mode control signals for the 2nd LO DDS IC (RF unit; IC18).

CPU (IC1) — continued

Pin number	Port name	Description
51	STD2	Outputs strobe signals for the BFO/scope DDS IC (RF unit; IC25).
52	STD1	Outputs strobe signals for the 2nd LO DDS IC (RF unit; IC18).
53	PSTB	Outputs strobe signals for the PLL IC (RF unit; IC7).
54	Pdat	Outputs serial data signals for the PLL IC (RF unit; IC7) and DDS ICs (RF unit; IC18, IC25).
55	Pck	Outputs serial clock signal for the PLL IC (RF unit; IC7) and DDS ICs (RF unit; IC18, IC25).
58–60	MST3– MST1	Outputs strobe signals for the output expander ICs (RF unit; IC1–IC3).
61	DRES	Outputs reset signal for the DDS ICs (RF unit; IC18, IC25).

4-5-2 DDS (RF unit; IC18)

Pin number	Port name	Description					
68	PFIL4		Outputs scope LO select signals. High: When Scope function is ON.				
69	PFIL3	Outputs BFO s High: When S selecter	SSB or C	W mode is			
70	PFIL2	Outputs 1st LO filter select signals. High: When frequencies from 0.01 to 265.699999 MHz are displayed. Low : When frequencies from 265.7 to 1300.0 MHz are displayed.					
72	VSFT2	Outputs VCO2					
	VCO2, VCO1	Output VCO2/V Display freq. [[MHz]		J.			
		0.01- 108.299999	VCO1	533.40– 749.90			
		108.3– 265.699999	VCO2	750.00 1064.70			
		265.7– 266.699999	VCO1	533.40- 534.35			
73, 75		266.7– 267.699999	VCO1	532.40– 533.35			
		267.7– 483.299999	VCO1	534.40 749.95			
		483.3– 799.999999	VCO2	750.00– 1066.65			
		800.0– 1016.699999	VCO1	533.30 749.95			
		1016.7– 1300.000000	VCO2	750.00– 1033.300000			
74	VSFT1	Outputs VCO1	shift sig	nals.			

4-5-3 OUTPUT EXPANDER IC

(1) RF unit; IC1

Pin number	Port name	Description
4	BOC	Outputs low-pass filter select signal. High: When frequencies below 1.8 MHz are displayed.
5	B1C	Outputs bandpass filter select signal. High: When frequencies from 1.8 to 14.999999 MHz are displayed.
6	B2C	Outputs bandpass filter select signal. High: When frequencies from 15.0 to 29.999999 MHz are displayed.
7	B3C	Outputs bandpass filter select signal. High: When frequencies from 30.0 to 49.999999 MHz are displayed.
11	B7C	Outputs bandpass filter select signal. High: When frequencies from 700.0 to 1300.0 MHz are displayed.
12	B6C	Outputs bandpass filter select signal. High: When frequencies from 350.0 to 699.999999 MHz are dis- played.
13	B5C	Outputs bandpass filter select signal. High: When frequencies from 150.0 to 349.999999 MHz are dis- played.
14	B4C	Outputs bandpass filter select signal. High: When frequencies from 50.0 to 149.999999 MHz are displayed.

(2) RF unit; IC2

Pin number	Port name	Description				
4	NB	High: While	Outputs NB control signals. High: While NB fuction is ON. (SSB/CW mode only)			
5	AGCF	Outputs AGC time constant control signals. High: When WFM or FM mode is selected (AGC-fast).				
7	SCAN	Outputs AGC time constant control signals. High: While scanning (fastest AGC speed).				
		Output 10.7 nals.	MHz IF filter	select sig-		
12, 13	FL5, FL4	SW signal	Bandpass filter	Passband width		
		FL4	FI2	50 kHz		
		FL5	F13	230 kHz		
14	ATTC	Outputs attenuator control signals. High: When attenuator function is ON.				

(3) RF unit; IC3

Port name	Description			
WFM	Outputs WFM mode select signals. High: When WFM mode is selected.			
FM	Outputs FM mode select signals. High: When FM mode is selected.			
AM	Outputs AM mode select signals. High: When AM mode is selected.			
SSB	Outputs SSB mode select signals. High: When SSB mode is selected.			
	Output 450 k	60 kHz IF filter select signals.		
	SW signal	Bandpass filter	Passband width	
FL3-FL0	FL0	FI5	2.8 kHz	
	FL1	FI6	6 kHz	
	FL2	FI7	15 kHz	
	FL3	By-pass		
	name WFM FM AM SSB	nameWFMOutputs WFf High: WhenFMOutputs FM High: WhenAMOutputs AM High: WhenSSBOutputs SSE High: WhenSSBOutputs SSE High: WhenFL3-FL0SW FL1 FL1FL2	nameDescriptionWFMOutputs WFM mode select High: When WFM modeFMOutputs FM mode select High: When FM mode isAMOutputs AM mode select High: When AM mode select High: When AM mode select High: When SSB mode select High: When SSB mode isSSBOutputs SSB mode select High: When SSB mode select High: When SSB mode isSVBandpass filterFL3-FL0FL0FL1FI6FL2FI7	

SECTION 5 ADJUSTMENT PROCEDURES

5-1 PREPARATION BEFORE SERVICING

The receiver (IC-PCR1000) can be adjusted by sending adjustment data to the RS-232C port via a PC. Most of the adjustments in this section must use **EX-2099**, an adjustment program for IC-PCR1000. The software that comes with the IC-PCR1000 is not necessary for adjustments in this section.

SYSTEM REQUIREMENTS

- IBM PC compatible computer
- An RS-232C serial port (38400 bps or faster)
- Microsoft Windows 95
- Intel i486DX4 processor or faster (pentium 100 MHz or faster recommended)
- At least 16 MB RAM
- At least 10 MB of hard disk space
- 640 \times 480 pixel display (800 \times 600 pixel display recommended)

SOFTWARE INSTALLATION

NOTE: Before using the program, make a backup copy of the original disk. After making a backup copy, keep the original disk in a safe place.

- 1 Boot up Windows.
- Quit all applications when Windows is running.
- ② Insert the backup disk 1 into the appropriate floppy drive.
- 3 Select 'Run' from the [Start] menu.
- ④ Type the setup program name using the full path name, then push the [Enter] key. (A:\ setup [Enter])
- ⑤ Follow the prompts.
- (6) Program group 'IC-PCR1000' appears in the 'Programs' folder of the [Start] menu.

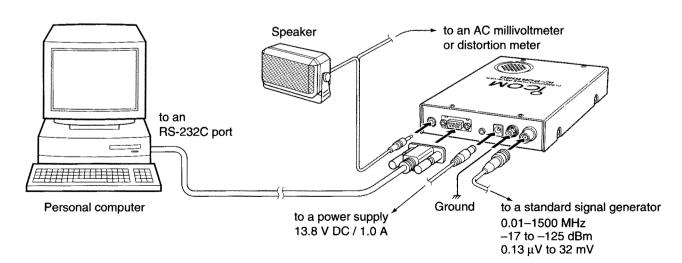
OPERATING INSTRUCTIONS

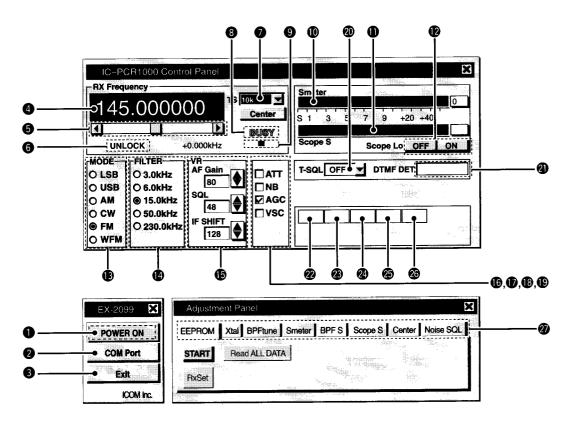
The adjustment program window contains 3 panels; the Power Panel, Control Panel and Adjustment Panel. The Power Panel will appear at start up the program.

- ① Connect IC-PCR1000 and PC with an RS-232C serial cable.
- ② Boot up Windows.
- ③ Click the "EX-2099 for IC-PCR1000" in the program group 'IC-PCR1000' to start the program.
 The Power Panel appears.
 - Olicit "DOWED ON" as the De
- ④ Click "POWER ON" on the Power panel.
 Control Panel and Adjustment Panel appear.
- (5) Click "START" on the Adjustment Panel when starting the SOFTWARE adjustment.
 - Data panel appears at the bottom side of the Adjustment panel.
- 6 Click "Read ALL DATA" on the Adjustment Panel.
- Application reads adjustment data of the connected receiver.
- ⑦ Set or modify adjustment data as desired. See the following SOFTWARE adjustments.

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BASIC CONNECTION





POWER PANEL

POWER button

Turns IC-PCR1000 on and off.

- COM port button Used to select a COM port.
- 6 EXIT button

Quits the program.

♦ CONTROL PANEL

FREQENCY indication
 Indicates or inputs the receive frequency.

G FREQUENCY scroll bar

Used to change the receive frequency. Moving the button to the right increases the frequency; to the left decreases the frequency.

- **6** UNLOCK indicator Appears when the PLL is unlocked.
- Tuning step button
- Used to change the tuning step. **BUSY indicator**
 - Appears when receiving a signal or when signal noise opens the squelch.
- **9 FM center indicator** Indicates the tuning level when selecting the 6 kHz or 15 kHz IF filter in FM mode.
- S-meter indicator Indicates the receive signal strength.
- Scope S indicator
- Scope Lo (ON/OFF) button
- B Receive mode buttons Select a receive mode.
- FILTER (IF filter) buttons
- Change the IF filter in use.
- **Volume buttons** Adjust the audio output, squelch level and set the signals passband position.

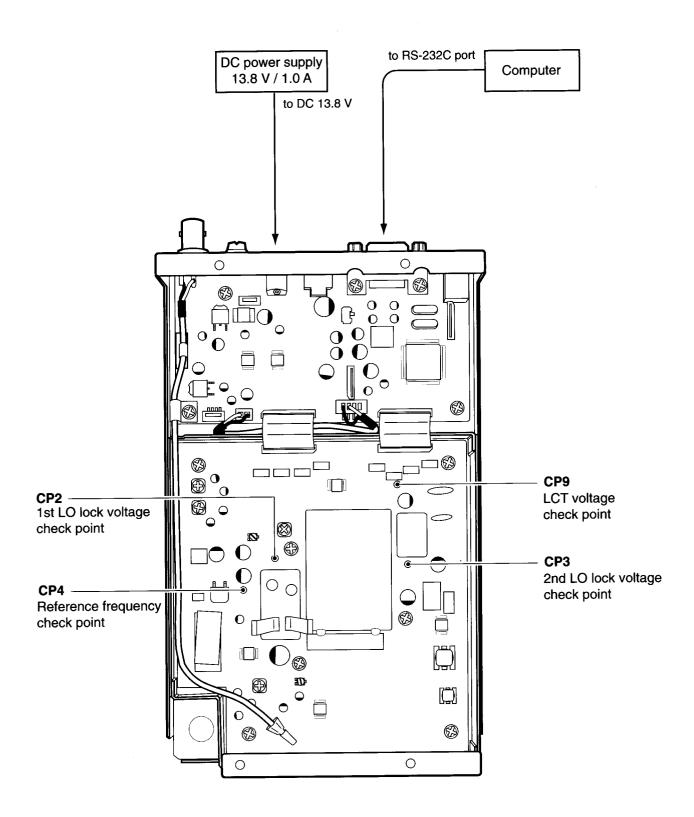
- **6** ATT (Attenuator) button Turns the attenuator on and off.
- **NB** (Noise Blanker) button Turns the noise blanker function on and off. The noise blanker is used to reduce pulse type noise.
- AGC (Automatic Gain Control) button Turns the AGC function on and off.

VSC (Voice Scan Control) button Turns the voice scan control function on and off. This function detects whether signals are modulated (contain voice or music components, etc.) or not.

- T-SQL (Tone squelch) button Indicates or selects tone frequency for the tone squelch.
- DTMF decode indicator
 Indicates the decoded DTMF signals.
- AD1 (SMAD) indicator Indicates voltage level for the S-meter.
- AD2 (CMAD) indicator Indicates voltage level for the center meter.
- (2) AD3 (L1AD) indicator
- Indicates the 1st LO PLL lock voltage level. AD4 (SCAD) indicator
- Indicates voltage level for the CTCSS decoded signal.
- ADJUSTMENT PANEL
 - Item select buttons Used to select the adjustment items.

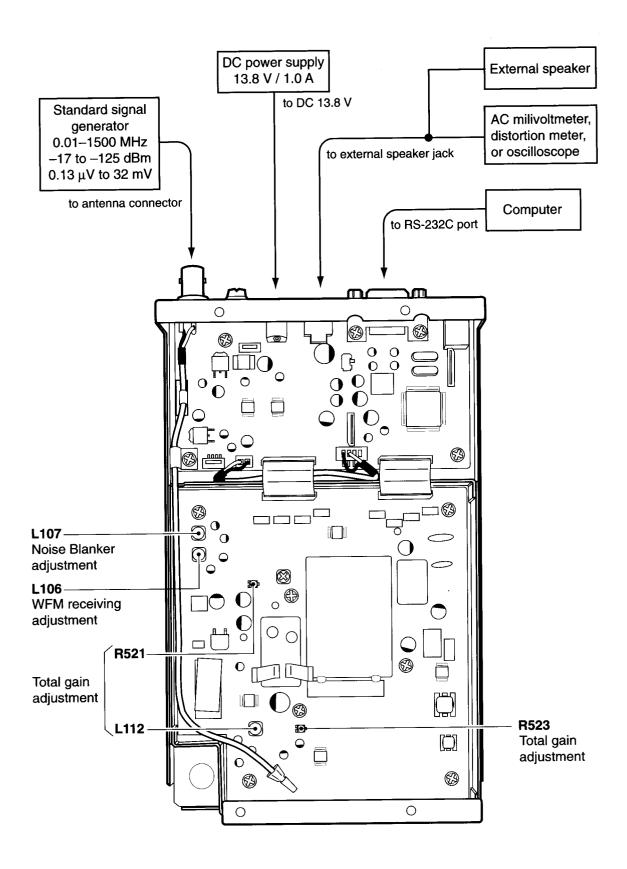
5-2 PLL ADJUSTMENT AND IF PEAK ADJUSTMENT

ADJUSTMEN	лт	ADJUSTMENT CONDITION	MEASUREMENT		VALUE	ADJUSTMENT	
ADUUUIIILI	• ·		UNIT	LOCATION		ADUCSTMENT	
REFERENCE FREQUENCY		• Display freq. : Any	RF	Connect a frequen- cy counter to check point CP4.		Use the adjust- ment software. (see page 5-6)	
1ST LO PLL LOCK	1	• Display freq. : 265.7000 MHz	RF	Connect a digital multi-meter or oscil-		Verify	
VOLTAGE	2	• Display freq. : 383.2000 MHz		loscope to check point CP2.	13.5–17.7 V		
	3	• Display freq. : 383.3000 MHz			3.0–7.0 V		
	4	• Display freq. : 483.2000 MHz			10.0–14.0 V		
	5	• Display freq. : 483.3000 MHz			1.5–5.5 V		
	6	• Display freq. : 633.2000 MHz			12.5–16.5 V		
	7	• Display freq. : 633.3000 MHz			4.0–8.0 V		
	8	• Display freq. : 799.9000 MHz			12.5–16.5 V		
2ND LO PLL LOCK	1	• Display freq. : 265.0000 MHz	RF	Connect a digital multi-meter or oscil-		Verify	
VOLTAGE	2	• Display freq. : 266.0000 MHz		loscope to check point CP3.	6.6–10.6 V		
	3	• Display freq. : 267.0000 MHz			6.4–10.4 V		
LCT TERMINAL	1	• Display freq. : Any frequency of the 1st LO and 2nd LO are locked.	RF	Connect a digital multi-meter or oscil- loscope to check point CP9.	Less than 1.5 V	Verify	
IF PEAK	1	 Display freq. : 130.0200 MHz Mode : FM AGC : ON Filter : 15 kHz R521 (RF unit) : Center R523 (RF unit) : Center Connect a standard signal generator to [ANT] and set as: Frequency : 130.0200 MHz Level : 50 μV* (-73 dBm) Modulation : OFF Receiving Display freq. : 149.9800 MHz Set an SSG as : 			Maximum S-meter level	Use the adjust- ment software. (see page 5-6, Tuned BPF)	
		Frequency : 149.9800 MHz • Receiving					



5-3 RECEIVE ADJUSTMENT

ADJUSTMEN	т	ADJUSTMENT CONDITION	M	EASUREMENT	VALUE	1	ADJUSTMENT POINT	
ADJUSTWILN		ADDUSTMENT CONDITION	UNIT	LOCATION		UNIT	ADJUST	
TOTAL GAIN	1	 Display freq. : 149.97000 MHz Mode : USB Filter : 3.0 kHz Set an SSG as : Frequency : 149.97015 MHz Level : 1.8 μV* (-102 dBm) Modulation : OFF Receiving 	Panel	Connect an AC millivoltmeter to the [EXT SP] jack with an 8 Ω dummy load.	Maximum AF level	RF	L112	
	2	 Display freq. : 149.97000 MHz Mode : FM Filter : 15.0 kHz Set an SSG as : Mode : FM Level : 1.0 mV* (-47 dBm) Modulation : 1 kHz Deviation : 3.5 kHz Receiving 			Any AF level	Computer display	AF Gain	
	3	 Display freq. : 149.97015 MHz Mode : USB Filter : 3.0 kHz Set an SSG as : Level : 1.0 mV* (-47 dBm) Modulation : OFF Receiving 			Same AF level as step 2	RF	R523	
	4	• Set an SSG as : Level : OFF • Receiving			20 dB of AF level dif- ference as step 3		R521	
WFM RECEIVER	1	 Display freq. : 149.97000 MHz Mode : WFM Filter : 230.0 kHz Set an SSG as : Mode : FM Level : 1.0 μV* (-47 dBm) Modulation : 1 kHz Deviation : 75 kHz Receiving 	z Rear Panel	Connect a distortion meter to the [EXT SP] jack with an 8 Ω dummy load.		RF	L106	
NOISE BLANKER	1	 Display freq. : 149.97000 MHz Mode : USB Filter : 3.0 kHz NB : ON Apply the following noise signal to the [ANT] connector. 100 msec. 100 msec. 100-200 μsec. Receiving 	Panel	Connect an oscillo- scope to the [EXT SP] jack with an 8 Ω dummy load.	Minimum noise level	RF	L107	



5-4 SOFTWARE ADJUSTMENT

ADJUSTMENT		ADJUSTMENT CONDITION	OPERATION
REFERENCE FREQUENCY	1	 Click adjustment item [Xtal] on the Adjustment Panel. Connect a frequency counter to check point CP4 on the RF unit (see page 5-4). 	 Click "▲" or "▼" to set reference frequency to 10.250000 MHz.
TUNED BPF	1	 Click adjustment item [BPFtune] on the Adjustment Panel. Select "BPF 4-1" at the left side of Adjustment Panel. Manual/Auto Tune : Manual Set an SSG as : Frequency : 50.02 MHz Level : 50 µV* (-73 dBm) Modulation : OFF Receiving 	 Move the scroll bar at the bottom side of Adjustment Panel, and set maximum S-meter level on the Control Panel. Then, click "Write" switch to store into memory.
	2	 Same operation as step 1 for the listed frequencies. BPF 4-2 - 58.28 MHz BPF 4-3 - 58.32 MHz BPF 5-7 - 300 BPF 4-4 - 88.02 MHz BPF 5-8 - 349 BPF 4-5 - 108.28 MHz BPF 6-1 - 350 BPF 4-6 - 108.32 MHz BPF 6-2 - 383 BPF 4-7 - 130.02 MHz BPF 6-3 - 383 BPF 4-8 - 149.98 MHz BPF 6-3 - 383 BPF 5-1 - 150.02 MHz BPF 6-5 - 483 BPF 5-2 - 183.28 MHz BPF 6-6 - 483 BPF 5-3 - 183.32 MHz BPF 6-6 - 483 BPF 5-4 - 216.02 MHz BPF 6-8 - 633 BPF 5-5 - 265.68 MHz BPF 6-9 - 633 	0.02 MHz BPF 7-1 - 700.02 MHz 9.98 MHz BPF 7-2 - 750.02 MHz 0.02 MHz BPF 7-3 - 799.98 MHz 3.28 MHz BPF 7-4 - 800.02 MHz 3.32 MHz BPF 7-5 - 916.68 MHz 3.32 MHz BPF 7-6 - 916.72 MHz 3.32 MHz BPF 7-7 - 1016.68 MHz 3.32 MHz BPF 7-7 - 1016.68 MHz 3.32 MHz BPF 7-7 - 1016.68 MHz 3.32 MHz BPF 7-8 - 1016.72 MHz 3.32 MHz BPF 7-9 - 1166.68 MHz 3.32 MHz BPF 7-9 - 1166.72 MHz
S-METER	1	 Click adjustment item [Smeter] on the Adjustment Panel. Select "FM S0" at the left side of Adjustment Panel. Set an SSG as : Frequency : 149.97000 MHz Mode : FM Level : 0.5 μV* (-113 dBm) Modulation : OFF Receiving 	 Click "Write" switch to store sampled data into memory. .
	2	• Same operation as step 1 for the listed levels. • Set an SSG as: FM S3 : 1.3 μ V* (-105 dBm) FM S5 : 3.2 μ V* (-97 dBm) FM S7 : 13 μ V* (-85 dBm) FM S9 : 50 μ V* (-73 dBm) FM S9+20 : 280 μ V* (-58 dBm) FM S9+40 : 1.6 mV* (-43 dBm) FM S9+60 : 8.9 mV* (-28 dBm) • Receiving	$\begin{array}{rll} WFM \; S0 & : \; 0.79 \; \mu V^{*} \; (-109 \; dBm) \\ WFM \; S3 & : \; 1.6 \; \mu V^{*} \; (-103 \; dBm) \\ WFM \; S5 & : \; 3.2 \; \mu V^{*} \; (-97 \; dBm) \\ WFM \; S7 & : \; 13 \; \mu V^{*} \; (-85 \; dBm) \\ WFM \; S9 & : \; 50 \; \mu V^{*} \; (-73 \; dBm) \\ WFM \; S9 + 20 & : \; 280 \; \mu V^{*} \; (-58 \; dBm) \\ WFM \; S9+40 & : \; 1.6 \; m V^{*} \; (-43 \; dBm) \\ WFM \; S9+60 & : \; 8.9 \; m V^{*} \; (-28 \; dBm) \\ \end{array}$
S-METER FLAT	1	 Click adjustment item [BPF S] on the Adjustment Panel. Select "BPF0" at the left side of Adjustment Panel. Set an SSG as : Frequency : 1.02 MHz Level : 50 μV* (-73 dBm) Modulation : OFF Receiving 	 Click "Write" switch to store sampled data into memory.

SOFTWARE ADJUSTMENT (continued)

ADJUSTMENT		ADJUSTMENT CONDITION	OPERATION
S-METER FLAT	2	Same adjustment as step 1 for the listed BPFs freque BPF 1 – 7.02 MHz BPF 5-4 – 21 BPF 2 – 21.02 MHz BPF 5-5 – 26	6.02 MHz BPF 6-10 – 699.98 MHz
		BPF 3 – 40.02 MHz BPF 5-6 – 26 BPF 4-1 – 50.02 MHz BPF 5-7 – 30 BPF 4-2 – 58.28 MHz BPF 5-8 – 34 BPF 4-3 – 58.32 MHz BPF 6-1 – 35	00.02 MHzBPF 7-3 - 799.98 MHzI9.98 MHzBPF 7-4 - 800.02 MHz
		BPF 4-4 – 88.02 MHz BPF 6-2 – 38 BPF 4-5 – 108.28 MHz BPF 6-3 – 38 BPF 4-6 – 108.32 MHz BPF 6-4 – 43 BPF 4-7 – 130.02 MHz BPF 6-5 – 48	B3.32 MHz BPF 7-7 – 1016.68 MHz B3.32 MHz BPF 7-8 – 1016.72 MHz
		BPF 4-8 149.98 MHz BPF 6-6 48 BPF 5-1 150.02 MHz BPF 6-7 55 BPF 5-2 183.28 MHz BPF 6-8 63 BPF 5-3 183.32 MHz BPF 6-9 63 • Receiving • • • • •	B3.32 MHz BPF 7-10 - 1166.72 MHz 88.32 MHz BPF 7-11 - 1299.98 MHz 93.28 MHz BPF 7-11 - 1299.98 MHz
SCOPE S		 Click adjustment item [Scope S] on the Adjustment Panel. Select "S0" at the left side of Adjustment Panel. Mode : FM Filter : 15.0 kHz Set an SSG as : Frequency : 149.97000 MHz Level : 0.32 μV* (-117 dBm) Modulation : OFF Receiving 	Click "Write" switch to store sampled data into memory.
	2	 Same operation as step 1 for the listed levels. Set an SSG as : S3 : 3.2 μV* (-97 dBm) S5 : 10 μV* (-87 dBm) S7 : 32 μV* (-77 dBm) S9 : 100 μV* (-67 dBm) Receiving 	S9+20 : 320 μV* (–57 dBm) S9+40 : 1.0 mV* (–47 dBm) S9+60 : 3.2 mV* (–37 dBm)
CENTER INDICATOR	1	 Click adjustment item [Center] on the Adjustment Panel. Select "CW low" at the left side of Adjustment Panel. Set an SSG as : Frequency : 149.96700 MHz Level : 50 µV* (-73 dBm) Modulation : OFF Receiving 	 Click "Write" switch to store sampled data into memory.
	2	 Select "CW high" at the left side of Adjustment Panel. Set an SSG as : Frequency : 149.97300 MHz Receiving 	 Click "Write" switch to store sampled data into memory.
NOISE SQUELCH	1	 Click adjustment item [Noise SQL] on the Adjustment Panel. Set an Adjustment panel as: 	
	2	Timing $TZ - 2$ T3 - 100 Level $Thresh - 20$ Tight - 20	 Click "▼" then "Write" switches at 'Level' to set Thresh/Tight data until noise disappears. NOTE: "Write" switch must be clicked at each level, otherwise the level is invalid.
	3	• Set an Adjustment panel as: Timing : T2 2 T3 4	Click "Write" switch for Timing.

SECTION 6 PARTS LIST

[LOGIC UNIT]

[LOGIC UNIT]

[rooi	C OWIT			L, L,	LUU			
REF NO.	ORDER NO.		DESCRIPTION] [REF NO.	ORDER NO.	E	DESCRIPTION
IC1	1140007000	S.IC	HD6433334YL04F	1 F	R30	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
IC2	1130004330		LC7385M		R31	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
102	1120002510					7030003590		
			DS14C232TM		R34		S.RESISTOR	ERJ3GEYJ 183 V (18 kΩ)
IC4	1180000970		AN78L05M-(E1)		R35	7030003670	S.RESISTOR	ERJ3GEYJ 823 V (82 kΩ)
IC5	1180001070		TA7805F (TE16L)		R36	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
IC6	1180001250		TA7808F (TE16L)		R37	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
IC7	1110002350		BA6161F		R38	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
IC8	1110001400		µPC1555G2-T1	1 1	R39	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
1C9	1110004490	S.IC	M62429FP 700C		R40	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
IC10	1110001810	S.IC	TA7368F (TP1)	1 1	R41	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
IC11	1120002170	S.IC	M5223FP		R43	7030003380	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
IC12	1110004450	S.IC	PST592DMT		R44	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
IC13	1140004450	S.IC	X24C01AS-3.0T6		R45	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
IC15	1140006210	1	uPC5023GR-115-GJG-E1		R46	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
			p. 000-00.1		R47	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
					R48	7030008170	S.RESISTOR	ERJ12YJ1R0H (1 Ω)
Q1	1520000560	S.TRANSISTOR	2SB1123T-TD		R49	7030003680	1	
	1590000430						S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
Q2	1530003280	S.TRANSISTOR	DTC144EU T107		R50	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)
Q6		S.TRANSISTOR	2SC4211-6-TL		R51	7030003710	S.RESISTOR	ERJ3GEYJ 184 V (180 kΩ)
Q7	1530003280	S.TRANSISTOR	2SC4211-6-TL		R52	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
Q10	1590000720	S.TRANSISTOR	DTA144EU T107		R53	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
Q11	1590000430	1	DTC144EU T107	1 1	R54	7030003740	S.RESISTOR	ERJ3GEYJ 334 V (330 kΩ)
Q12	1590000720	S.TRANSISTOR	DTA144EU T107		R56	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
Q13	1590000720	S.TRANSISTOR	DTA144EU T107		R57	7030003700	S.RESISTOR	ERJ3GEYJ 154 V (150 kΩ)
1					R58	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
1				1	R59	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
D1	1750000550	S.DIODE	1SS355 TE-17		R60	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
D2	1710000840	S.DIODE	1SR154-400 TE25		R61	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
D3	1750000550	S.DIODE	1SS355 TE-17		R62	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)
D5	1750000110	S.DIODE	1SS272 (TE85R)		R63	7030007850	S.RESISTOR	ERJ8EN 1001V (1 kΩ)
D6	1730002320	S.ZENER	MA8051-M (TX)		R64	7030007130	S.RESISTOR	ERJ1WYJ150H (15 Ω)
D7	1750000550	S.DIODE	1SS355 TE-17		R65	7030007510	S.RESISTOR	ERJ12YJ270H (27 Ω)
D8	1750000520	S.DIODE	DAN222TL		R66	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
D9	1750000520	S.DIODE	DAN222TL	1 1	R67	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
				1 1	R68	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
					R69	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
X1	6050009870	S.XTAL	CR-567 (9.8304 MHz)		R70	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
X2	6050010130	S.XTAL	SMD-49 3.579545 MHz	1 1	R71	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
~~	0000010100	U.X.IAL	SMD-43 5.57 3545 Milliz		R72	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
					R73	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
L1	6200003950	S.COIL	HF50ACC 322513-T		R74	7030003560	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
L2	6180002650	COIL	RCR-875D-472K		11/4	7030003300	3.nL31310h	EN000E10 100 V (10 Ksz)
L3	6200003520	S.COIL	ELJFB 102K-F					
L4	6200007420	S.COIL	ELJFC 101K-F 100U		C1	4510004630	S.ELECTROLYTIC	ECEV1CA100SR
L4 L5	6200007420	S.COIL	ELJFC 101K-F 100U		C2	4510004630	S.ELECTROLYTIC	ECEVICA100SR
L6	6200007840	S.COIL	LQN6C101M04		C3	4510004630	S.ELECTROLYTIC	ECEVICA100SR
L7	6200003950	S.COIL	HF50ACC 322513-T		C4	4510004630		
L7 L8	6200003950	S.COIL	HF50ACC 322513-1 HF50ACC 322513-T		C5	4030006900	S.ELECTROLYTIC S.CERAMIC	ECEV1CA100SR
L0 L9	£	1			C6	4030006900		C1608 JB 1E 103K-T-A
L9 L10		S.COIL	HF50ACC 322513-T					C1608 JB 1E 103K-T-A
LIU	6200003950	S.COIL	HF50ACC 322513-T		C7	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
					C8	4030007020	S.CERAMIC	C1608 CH 1H 120J-T-A
	70000000000	0 DECIOTOR			C9	4030007020	S.CERAMIC	C1608 CH 1H 120J-T-A
R1	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		C10	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
R2	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		C11	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
R3	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		C12	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
R4	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)		C13	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
R5	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)		C14	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
R6	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)		C15	4030008560	S.CERAMIC	C1608 CH 1H 300J-T-A
R7	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)		C16	4030008560	S.CERAMIC	C1608 CH 1H 300J-T-A
R8	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)		C17	4510004650	S.ELECTROLYTIC	ECEV1EA4R7SR
R9	7030003740	S.RESISTOR	ERJ3GEYJ 334 V (330 kΩ)		C18	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
R10	7030007990	S.RESISTOR	ERJ12YJ820H (82 Ω)		C19	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
R12	7030008380	S.RESISTOR	ERJ1WYJ270H (27 Ω)		C20	4510005300	S.ELECTROLYTIC	ECEV1AA330SR
R13	7030003450	S.RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)		C23	4510004650	S.ELECTROLYTIC	ECEV1EA4R7SR
R16	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)		C24	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
R17	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)		C25	4030011600		C1608 JB 1C 104KT-N
R18	7030003220	S.RESISTOR	ERJ3GEYJ 150 V (15 Ω)		C26	4510005300	S.ELECTROLYTIC	ECEV1AA330SR
R19	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)		C27	4510004650	S.ELECTROLYTIC	ECEV1EA4R7SR
R22	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		C28	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
R23	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)		C29	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
R24	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)		C30	4510005300	S.ELECTROLYTIC	ECEV1AA330SR
R25	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)		C31	4510006210	S.ELECTROLYTIC	ECEV1VA330UP
R26	7030003570	S.RESISTOR	ERJ3GEYJ 123 V (12 kΩ)		C32	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
R27	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		C33	4510005360	S.ELECTROLYTIC	ECEV1HA4R7SR
R28	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		C34	4510005360	S.ELECTROLYTIC	ECEV1HA4R7SR
R29	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)		C35	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
L				1 L.				

[LOGIC UNIT]

C36 4030006880 S.C.ERAMIC C 1608 JB 11 472K-T.A C37 4510005360 S.ELECTROLYTIC ECEVIHAAR7SR C42 403001620 S.C.ERAMIC C 3216 JB 1C 109M-T-A C43 4030006220 S.ELECTROLYTIC ECEV1CA1005R C44 451000430 S.ELECTROLYTIC ECEV1CA1005R C47 451000430 S.ELECTROLYTIC ECEV1CA1005R C48 450006820 S.ELECTROLYTIC ECEV1CA1005R C44 450006820 S.ELECTROLYTIC ECEV1CA1005R C50 451000430 S.ELECTROLYTIC ECEV1CA1005R C51 4030006900 S.CERAMIC C 1603 JB 1E 103K-TA C53 4030006900 S.CERAMIC C 1603 JB 1E 103K-TA C54 4030006800 S.CERAMIC C 1603 JB 1E 103K-TA C54 4030006800 S.CERAMIC C 1603 JB 1E 103K-TA C54 4030006800 S.CERAMIC C 1608 JB 1H 102K-TA C56 4030006800 S.CERAMIC C 1608 JB 1H 102K-TA C56 4030006800 S.	REF NO.	ORDER NO.	DESCRIPTION		
Ca7 4510006580 S.E.ECTROLYTIC CEVIHA48758 C42 4030011201 S.CERAMIC C1608.B1C 104MTN C44 4510006220 S.E.ECTROLYTIC ECEVICA101UP C44 4510006200 S.CERAMIC C1608.B1E1 103K-TA C44 4510004830 S.ELECTROLYTIC ECEVICA101UP C44 4510004830 S.ELECTROLYTIC ECEVICA100581 C44 4510004830 S.ELECTROLYTIC ECEVICA100581 C51 4303006900 S.CERAMIC C1608.B1E 103K-TA C52 4303006900 S.CERAMIC C1608.B1E 103K-TA C53 4510006220 S.ELECTROLYTIC ECEVICA101UP C54 4030009000 S.CERAMIC C1608.B1E 103K-TA C54 4030009000 S.CERAMIC C1608.B1E 103K-TA C54 4303006900 S.CERAMIC C1608.B1E 103K-TA C54 4303006900 S.CERAMIC C1608.B1E 103K-TA C54 4303006900 S.EERAMIC C1608.B1E 103K-TA C56 4303006900 S.EERAMIC	C36	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C43 4030010210 S.CERAMIC C3216 JB 1C 105M-T-A C44 4510006220 S.LECTROLYTIC ECEVICA101UP C45 4030006900 S.CERAMIC C1608 JB 1H 102K-T-A C47 4510004830 S.LECTROLYTIC ECEVICA100SR C48 4510004830 S.LECTROLYTIC ECEVICA100SR C50 4510006220 S.LECTROLYTIC ECEVICA100SR C51 4030006900 S.CERAMIC C1608 JB 1E 103K-T-A C52 4030006900 S.CERAMIC C1603 JB 1E 103K-T-A C53 4510006220 S.LECTROLYTIC ECEVICA100SR C44 4030006900 S.CERAMIC C1603 JB 1E 103K-T-A C54 4030006900 S.CERAMIC C1608 JB 11 102K-T-A C54 4030006900 S.CERAMIC C1608 JB 11 470J-T-A C64 451000620 S.ELECTROLYTIC ECEVICA101UP C64 4300006800 S.CERAMIC C1608 JB 11 470J-T-A C64 450000680 S.CERAMIC C1608 JB 11 470J-T-A C64 450000680 S.CER					
C44 4510006220 S.ELECTROLYTIC ECEVICA101UP C45 4030006900 S.CERAMIC C1608 JB 1H 102K-TA C47 4510004630 S.ELECTROLYTIC ECEVICA100SR C48 4550006560 S.TANTALUM ECETIC/225R C50 4510004630 S.ELECTROLYTIC ECEVICA100JP C51 4030006900 S.CERAMIC C1608 JB 1E 103K-TA C52 4030006900 S.CERAMIC C1608 JB 1E 103K-TA C53 4510006220 S.EECATNOLYTIC ECEVICA101UP C54 4030006900 S.CERAMIC C1608 JB 1E 103K-TA C55 4030006900 S.CERAMIC C1608 JB 1E 103K-TA C56 4030006800 S.CERAMIC C1608 JB 1H 102K-TA C64 4030006860 S.CERAMIC	C42	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	
C45 4030006860 S.CERAMIC C1608 JB 1H 102K-TA C46 4030006900 S.ELECTROLYTIC ECEVICA100SR C47 4510004630 S.ELECTROLYTIC ECEVICA100SR C48 4550006560 S.TANTALUM ECSTIC/222SR C50 4510006200 S.ELECTROLYTIC ECEVICA100SR C51 4030005900 S.CERAMIC C1608 JB 1E 103K-TA C53 4510006220 S.ELECTROLYTIC ECEVICA100SR C54 403000900 S.CERAMIC C1608 JB 1E 103K-TA C57 403000900 S.CERAMIC C1608 JB 1C 104K-TN C68 4510006220 S.ELECTROLYTIC ECEVICA101UP C59 403000800 S.CERAMIC C1608 JB 1C 104K-TN C61 403000800 S.CERAMIC C1608 JB 1C 104K-TN C64 4510006220 S.ELECTROLYTIC ECEVICA100SR C76 453000680 S.CERAMIC C1608 JB 1H 102K-TA C68 4030008600 S.CERAMIC C1608 JB 1L 102K-TA C64 453000680 S.CERAMIC	C43				
C46 4030006900 S.CERAMIC C1608 JB 1E 103K-TA C47 4510004630 S.ELECTROLYTIC ECCV1CA100SR C48 4510004630 S.ELECTROLYTIC ECCV1CA101UP C51 4330006900 S.CERAMIC C1608 JB 1E 103K-TA C52 4030006900 S.CERAMIC C1608 JB 1E 103K-TA C53 4030006900 S.CERAMIC C1608 JB 1E 103K-TA C54 4030006900 S.CERAMIC C1608 JB 1E 103K-TA C55 4030006800 S.CERAMIC C1608 JB 1E 103K-TA C54 4030007800 S.CERAMIC C1608 JB 1H 102K-TA C64 4030007800 S.CERAMIC C1608 JB 1H 102K-TA C64 4030007800 S.CERAMIC C1608 JB 1H 102K-TA C64 450006800 S.CERAMIC C1608 JB 1H 102K-TA C64 450006800 S.CERAMIC C1608 JB 1H 102K-TA C64 430006800 S.CERAMIC C1608 JB 1H 102K-TA C66 4030006800 S.CERAMIC C1608 JB 1H 102K-TA C74 4530000400 S	4				
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C48 4510004500 S.ELECTROLYTIC ECEVICA100SR C49 4550005500 S.TAUTALUM ECSTICY22SR C50 4510006220 S.ELECTROLYTIC ECEVICA101UP C51 4510006220 S.ELECTROLYTIC ECEVICA100SR C54 4030006900 S.CERAMIC C1608 JB 1E 103K-TA C55 4030006900 S.CERAMIC C1608 JB 1E 103K-TA C56 4030006800 S.CERAMIC C1608 JB 1E 103K-TA C58 4510006220 S.ELECTROLYTIC ECEVICA101UP C58 4510006820 S.ELECTROLYTIC ECEVICA470 C64 430007090 S.CERAMIC C1608 JB 1H 102K-TA C64 4510006820 S.ELECTROLYTIC ECEVICA4701UP C65 4030006800 S.CERAMIC C1608 JB 1H 102K-TA C66 4030006800 S.CERAMIC C1608 JB 1E 103K-TA C76 4530000400 S.ARRAY EZANCE 220M 22P C76 4530000400 S.ARRAY EZANCE 220M 22P C77 4530000400 S.ARRAY EZ					
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C52 4030012610 S.CERAMIC C2012 JB IC 474K-TA C53 4510004630 S.ELECTROLYTIC ECEVICA100SR C54 4030006900 S.CERAMIC C1608 JB IE 103K-TA C57 4030006900 S.CERAMIC C1608 JB IC 103K-TA C58 4030006800 S.CERAMIC C1608 JB IC 103K-TA C58 4030006800 S.CERAMIC C1608 JB IC 104KTN C614 403000710 S.CERAMIC C1608 JB IC 104KTN C62 4550006710 S.TANTALUM ECST1AX47LB C64 4510004280 S.ELECTROLYTIC ECEVIAA471UP C65 4030006860 S.CERAMIC C1608 JB IH 102K-TA C66 4030006800 S.CERAMIC C1608 JB IE 103K-TA C74 4030006800 S.CERAMIC C1608 JB IE 103K-TA C74 430006800 S.CERAMIC C1608 JB IE 103K-TA C74 430006800 S.CERAMIC C1608 JB IE 103K-TA C74 430006800 S.CERAMIC C1608 JB IE 103K-TA C77 4530000400 S.ARRAY <td>C50</td> <td>4510006220</td> <td>S.ELECTROLYTIC</td> <td>ECEV1CA101UP</td>	C50	4510006220	S.ELECTROLYTIC	ECEV1CA101UP	
C53 4510004630 S.ELECTROLYTIC ECEV1CA100SR C54 4030006300 S.CERAMIC C1608 JB 1E 103K-TA C57 403000900 S.CERAMIC C1608 JB 1E 103K-TA C58 4510006220 S.EERAMIC C1608 JB 1C 104KT-N C60 4030007090 S.CERAMIC C1608 JB 1C 104KT-N C61 4030007090 S.CERAMIC C1608 JB 1C 104KT-N C62 4550006710 S.TANTALUM ECST1AX226R C63 4030006860 S.CERAMIC C1608 JB 1H 102K-TA C64 4510006260 S.EECTNOLYTIC ECEV1AA71UP C65 4030006860 S.CERAMIC C1608 JB 1H 102K-TA C66 4030006860 S.CERAMIC C1608 JB 1H 102K-TA C71 4030006860 S.CERAMIC C1608 JB 1H 102K-TA C75 453000400 S.ARRAY EZANCE 220M 22P C76 453000400 S.ARRAY EZANCE 220M 22P C77 453000400 S.ARRAY EZANCE 220M 22P C78 4530000400 S.ARRAY EZAN	C51	4030006900			
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C55 4030009000 S.CERAMIC C1608 JB 1E 103K-TA C57 4030009000 S.ELECTROLYTIC ECEVICA101UP C59 4030011600 S.CERAMIC C1608 JB 11 102K-TA C61 403000790 S.CERAMIC C1608 CH 1H 470J-TA C61 403000790 S.CERAMIC C1608 JB 11 102K-TA C62 450006710 S.TANTALUM ECST1AX226R C63 403001600 S.CERAMIC C1608 JB 11 102K-TA C64 43000660 S.CERAMIC C1608 JB 1E 103K-TA C66 403000680 S.CERAMIC C1608 JB 11 102K-TA C68 403000680 S.CERAMIC C1608 JB 11 102K-TA C71 403000680 S.CERAMIC C1608 JB 11 102K-TA C73 453000400 S.ARRAY EZANCE 220M 22P C77 453000400 S.ARRAY EZANCE 220M 22P C77 453000400 S.ARRAY EZANCE 220M 22P C77 453000400 S.ARRAY EZANCE 220M 22P C78 4530000400 S.ARRAY EZANCE 220M 22P		1			
C57 4030009000 S.CEFAMIC C2012 JB 1C 224K-TA C58 403001600 S.CEFAMIC C1608 JB 1C 104KT-N C60 403000790 S.CEFAMIC C1608 JB 1H 102K-TA C61 4030011600 S.CEFAMIC C1608 JB 1C 104KT-N C62 4550006710 S.TANTALUM ECST1AX226R C63 4030011600 S.CEFAMIC C1608 JB 1C 104KT-N C64 403000680 S.CERAMIC C1608 JB 1H 102K-TA C66 403000680 S.CERAMIC C1608 JB 1E 103K-TA C74 453000400 S.ARRAY EZANCE 220M 22P C76 453000400 S.ARRAY EZANCE 220M 22P C77 453000402 S.ARRAY NFA41R10C104 C81 453000402 S.ARRAY NFA41R10C104 C84 4530000402 S.ARRAY NFA41R10C104	1	1			
CS8 4510006220 S.ELECTROLYTIC ECEV1CA101UP CS9 4030011600 S.CERAMIC C1608 JB 1C 104KT-N C61 403000790 S.CERAMIC C1608 CH 1H 470J-TA C62 455006710 S.TANTALUM ECST1AX226R C63 4030011600 S.CERAMIC C1608 JB 1C 104KT-N C64 4510006280 S.ELECTROLYTIC ECEV1AA471UP C65 4030006800 S.CERAMIC C1608 JB 1H 102K-TA C66 4030006800 S.CERAMIC C1608 JB 1E 103K-TA C70 4030006800 S.CERAMIC C1608 JB 1E 103K-TA C71 4030006800 S.CERAMIC C1608 JB 1E 103K-TA C73 453000400 S.ARRAY EZANCE 220M 22P C74 453000400 S.ARRAY EZANCE 220M 22P C74 453000400 S.ARRAY EZANCE 220M 22P C74 453000402 S.ARRAY EZANCE 220M 22P C74 453000402 S.ARRAY EZANCE 220M 22P C74 4530000402 S.ARRAY EZANCE 220M 22P </td <td>1</td> <td>1</td> <td></td> <td></td>	1	1			
C60 4030006860 S.CERAMIC C1608 CH 1H 470J-T-A C61 403000709 S.CERAMIC C1608 CH 1H 470J-T-A C62 4550006710 S.CERAMIC C1608 JB 1C 104KT-N C64 4510006260 S.ELECTROLYTIC ECEV1AA471UP C65 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A C66 4030006800 S.CERAMIC C1608 JB 1H 102K-T-A C68 4030006800 S.CERAMIC C1608 JB 1E 103K-T-A C70 4030006800 S.CERAMIC C1608 JB 1H 102K-T-A C71 4030006800 S.CERAMIC C1608 JB 1H 102K-T-A C75 453000400 S.ARRAY EZANCE 220M 22P C76 453000400 S.ARRAY EZANCE 220M 22P C77 453000400 S.ARRAY EZANCE 220M 22P C78 453000400 S.ARRAY EZANCE 220M 22P C78 453000400 S.ARRAY EZANCE 220M 22P C82 453000400 S.ARRAY NFA41R10C104 C81 4530000400 S.ARRAY NFA41R10C1					
C61 4030007090 S.CERAMIC C1608 CH 1H 470J-T-A C62 4550006710 S.TANTALUM ECST1AX226R C63 4030011600 S.CERAMIC C1608 JB 1C 104KTN C64 4510006860 S.CERAMIC C1608 JB 1H 102K-T-A C66 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A C68 4510004630 S.ELECTROLYTIC ECEV1CA100SR C71 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A C75 453000400 S.ARRAY EZANCE 220M 22P C76 4530000400 S.ARRAY EZANCE 220M 22P C77 4530000400 S.ARRAY EZANCE 220M 22P C78 4530000400 S.ARRAY EZANCE 220M 22P C79 4530000400 S.ARRAY EZANCE 220M 22P C79 4530000400 S.ARRAY NFA41R10C104 C81 4530000400 S.ARRAY NFA41R100104 C84 403000710 S.CERAMIC C1608 JB 1H 332K-T-A C87 4030008605 S.CERAMIC C1608 CH 1H 680J-T-A </td <td>C59</td> <td>,</td> <td></td> <td></td>	C59	,			
C62 4550006710 S.TANTALUM ECST1AX226R C63 4030011600 S.CERAMIC C1608 JB 1C 104KT-N C64 4510006260 S.ELECTROLYTIC ECEV1AA471UP C66 4030006860 S.CERAMIC C1608 JB 11 102K-T-A C68 4030006800 S.CERAMIC C1608 JB 11 002K-T-A C70 4030006800 S.CERAMIC C1608 JB 11 003K-T-A C71 4030006800 S.CERAMIC C1608 JB 11 003K-T-A C74 4530000400 S.ARRAY EZANCE 220M 22P C74 4530000400 S.ARRAY EZANCE 220M 22P C77 4530000400 S.ARRAY EZANCE 220M 22P C78 4530000400 S.ARRAY EZANCE 220M 22P C82 4530000400 S.ARRAY NFA41R10C104 C84 4030006800 S.CERAMIC C1608 JB 11 322K-T-A C84 4030009600 S.CERAMIC C2101 JB 1C 224K-T-A C84 40300012610 S.CERAMIC C2101 JB 1C 224K-T-A C84 4500006300 S.TANTALUM	1	1	1		
C83 4030011600 S.CERAMIC C1608.JB 1L 104KT-N C64 4030006860 S.CERAMIC C1608.JB 1L 102K-T-A C66 4030006860 S.CERAMIC C1608.JB 1L 102K-T-A C68 4030006860 S.CERAMIC C1608.JB 1L 103K-T-A C68 4030006860 S.CERAMIC C1608.JB 1L 103K-T-A C71 4030006860 S.CERAMIC C1608.JB 1L 103K-T-A C74 453000400 S.ARRAY EZANCE 220M 22P C76 453000400 S.ARRAY EZANCE 220M 22P C77 4530000400 S.ARRAY EZANCE 220M 22P C78 4530000400 S.ARRAY EZANCE 220M 22P C79 4530000400 S.ARRAY NFA41R10C104 C81 4530000400 S.ARRAY NFA41R10C104 C84 403000710 S.CERAMIC C1608 JB 1H 332K-T-A C87 403000900 S.CERAMIC C1608 JB 1C 104KT-N C84 4030007110 S.CERAMIC C1608 JB 1C 104KT-N C84 4030012610 S.CERAMIC C1608 J	1.	1	1		
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C102 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A C103 4030011600 S.CERAMIC C1608 JB 1C 104KT-N C104 4030004750 S.CERAMIC C2012 JB 1H 103K-T-A C105 4030006900 S.CERAMIC C1608 JB 1E 103K-T-A C105 4030006900 S.CERAMIC C1608 JB 1E 103K-T-A S1 2220000530 S.SWITCH SW-161 J1 6510020530 S.CONNECTOR 52808-1890 J2 6510020530 S.CONNECTOR 52808-1890 J3 6510019970 S.CONNECTOR 52808-1890 J4 6510019970 S.CONNECTOR 52808-1890 J3 6510019970 S.CONNECTOR 52808-1890 J4 6510018970 S.CONNECTOR B4B-PH-SM3-TB J6 645000130 CONNECTOR B3B-ZR-SM3-TF J8 6510020540 CONNECTOR B4B-ZR-SM3-TF J9 6450000140 CONNECTOR HEC0470-01-630 J11 6510015540 S.CONNECTOR B4B-ZR-SM3-TF					
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J1 6510020530 S.CONNECTOR 52808-1890 J2 6510020530 S.CONNECTOR 52808-1890 J3 6510019970 S.CONNECTOR 52808-1890 J3 6510019970 S.CONNECTOR 52808-1890 J4 6510019970 S.CONNECTOR 52808-1090 J4 6510019370 S.CONNECTOR B4B-PH-SM3-TB J6 6450001330 CONNECTOR HSJ1332-01-020 J7 6510019370 S.CONNECTOR B3B-ZR-SM3-TF J8 6510020540 CONNECTOR DELC-J9SAF-23L8 J9 6450000140 CONNECTOR HSJ0807-01-010 J10 6450000410 CONNECTOR HEC0470-01-630 J11 6510015540 S.CONNECTOR B4B-ZR-SM3-TF J12 6510020520 S.CONNECTOR 52808-1290 W1 7030003860 S.JUMPER ERJ3GE JPW V except [USA] W2 7030003860 S.JUMPER ERJ3GE JPW V [USA] W3 7030003860 S.JUMPER ERJ3GE JPW V	1				
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J2 6510020530 S.CONNECTOR 52808-1890 J3 6510019970 S.CONNECTOR 52808-1090 J4 6510018970 S.CONNECTOR B4B-PH-SM3-TB J6 6450001330 CONNECTOR HSJ1332-01-020 J7 6510019370 S.CONNECTOR B3B-ZR-SM3-TF J8 6510020540 CONNECTOR DELC-J9SAF-23L8 J9 6450000140 CONNECTOR HSJ0807-01-010 J10 6450000140 CONNECTOR HEC0470-01-630 J11 6510015540 S.CONNECTOR B4B-ZR-SM3-TF J2 6510020520 S.CONNECTOR B4B-ZR-SM3-TF J12 6510020520 S.CONNECTOR B4B-ZR-SM3-TF J2 6510020520 S.CONNECTOR B4B-ZR-SM3-TF J2 6510020520 S.CONNECTOR 52808-1290 W1 7030003860 S.JUMPER ERJ3GE JPW V except [USA] W2 7030003860 S.JUMPER ERJ3GE JPW V [USA] W3 7030003860 S.JUMPER ERJ3GE J	J1	6510020530	S.CONNECTOR	52808-1890	
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W1 7030003860 S.JUMPER ERJ3GE JPW V except [USA] W2 7030003860 S.JUMPER ERJ3GE JPW V [USA] W3 7030003860 S.JUMPER ERJ3GE JPW V [USA] W4 7030003860 S.JUMPER ERJ3GE JPW V					
W2 7030003860 S.JUMPER ERJ3GE JPW V [USA] W3 7030003860 S.JUMPER ERJ3GE JPW V [USA] W4 7030003860 S.JUMPER ERJ3GE JPW V	J12	6510020520	5.CONNECTOR	52808-1290	
W3 7030003860 S.JUMPER ERJ3GE JPW V W4 7030003860 S.JUMPER ERJ3GE JPW V	W1	7030003860	S.JUMPER		
W4 7030003860 S.JUMPER ERJ3GE JPW V					
	1)			

[LOGIC UNIT]

 REF NO.	ORDER NO.		DESCRIPTION	
WS1	8600035990	OTHER	P01×J05LO	
EP1	0910049004	РСВ	B 5014D	

[RF UNIT]

		and the second constraint constraints			
REF NO.	ORDER NO.		DESCRIPTION		
IC1	1130007510	SIC	BU4094BCFV-E1		
IC2	1130007510	S.IC	BU4094BCFV-E1		
IC3	1130007510	S.IC	BU4094BCFV-E1		
IC4	1110004470	S.IC	µPC2721GV-E1		
IC5	1110004470	S.IC	μPC2721GV-E1		
IC6	1110004610	S.IC	UPB1508GV-E1		
IC7	1130007970	S.IC	MC145190FR2		
IC8	1110003200	S.IC	TA31136FN (EL)		
IC9	1110004440	S.IC	LA1145M-TE-L		
IC10 IC11	1110003200	S.IC S.IC	TA31136FN (EL) NJM2904V-TE1		
IC12	1110003350	S.IC	uPC1037GR-E1 (MS)		
IC13	1110003800	S.IC	NJM2904V-TE1		
IC14	1130008090	S.IC	BU4066BCFV-E1		
IC18	1140003641	S.IC	SC-1246 (L7B1106)		
IC19	1130003830	S.IC	TC7S04F (TE85R)		
IC23	1110004460	S.IC	UPB1509GV-E1		
IC24	1130003830	S.IC	TC7S04F (TE85R)		
IC25	1140004550	S.IC	M65343FP/SC1287		
IC26 IC27	1110004080	S.IC	μPC2709T-E3 TC4S66F (TE85R)		
IC27	1130003830	SIC SIC	TC7S04F (TE85R)		
1020	11000000000	0.10			
Q1	+520002000	S.TRANSISTOR	2SC4211-6-TL		
	1530003280 1590000430	S.TRANSISTOR	DTC144EU T107		
Q3	1590000720	S.TRANSISTOR	DTA144EU T107		
Q4	1590002010	S.TRANSISTOR	XP1114 (TX)		
Q5	1590002010	S.TRANSISTOR	XP1114 (TX)		
Q6	1590002010	S.TRANSISTOR	XP1114 (TX)		
Q7	1590002010	S.TRANSISTOR	XP1114 (TX)		
Q8	1580000630	S.FET	3SK228XR-TL		
Q9	1580000630	S.FET	3SK228XR-TL		
Q10	1580000630	S.FET	3SK228XR-TL		
Q11 Q12	1580000630 1560000720	S.FET	3SK228XR-TL 2SK2171-4-TD		
Q12	1580000720	S.FET S.FET	3SK131-T2-LA		
Q14	1530003550	S.TRANSISTOR	2SC5193-T1		
Q15	1530003550	S.TRANSISTOR	2SC5193-T1		
Q17	1590000680	S.TRANSISTOR	DTC114EU T107		
Q18	1530003550	S.TRANSISTOR	2SC5193-T1		
Q19	1530003550	S.TRANSISTOR	2SC5193-T1		
Q20	1590000680	S.TRANSISTOR	DTC114EU T107		
Q22 Q23	1530003280 1590000720	S.TRANSISTOR	2SC4211-6-TL DTA144EU T107		
Q23 Q24	1560000540	S.FET	2SK880-Y (TE85R)		
Q25	1560000540	S.FET	2SK880-Y (TE85R)		
Q26	1530003000	S.TRANSISTOR	2SC4117-BL (TE85R)		
Q27	1530003450	S.TRANSISTOR	2SC4835-R (TX)		
Q30	1590002010	S.TRANSISTOR	XP1114 (TX)		
Q31	1590001960	S.TRANSISTOR	XP4311 (TX)		
Q32	1590000430	S.TRANSISTOR	DTC144EU T107		
Q33 Q34	1530003280 1590001650	S.TRANSISTOR S.TRANSISTOR	2SC4211-6-TL XP4601 (TX)		
Q34 Q35	1560000560	S.FET	2SK882-GR (TE85L)		
Q36	1590000430	S.TRANSISTOR	DTC144EU T107		
Q37	1530003280	S.TRANSISTOR	2SC4211-6-TL		
Q38	1590001960	S.TRANSISTOR	XP4311 (TX)		
Q39	1580000540	S.FET	3SK131-T2-LA		
Q40	1530003280	S.TRANSISTOR	2SC4211-6-TL 2SK882-GR (TE85L)		
Q41 Q42	1560000560 1530003450	S.FET S.TRANSISTOR	2SK882-GR (TE85L) 2SC4835-R (TX)		
Q42 Q43	1530003280	S.TRANSISTOR	2SC4211-6-TL		
Q44	1590000430	S.TRANSISTOR	DTC144EU T107		
Q45	1590001650	S.TRANSISTOR	XP4601 (TX)		
Q48	1560000560	S.FET	2SK882-GR (TE85L)		
Q49	1530003280	S.TRANSISTOR	2SC4211-6-TL		
Q51	1530003280	S.TRANSISTOR	2SC4211-6-TL		
Q52	1510000880	S.TRANSISTOR	2SA1622-6-TL		

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1590001770

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1750000580 S.DIODE

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DESCRIPTION 1510000880 S.TRANSISTOR 2SA1622-6-TL S TRANSISTOR XP1213 (TX) S TRANSISTOR 2SC4211-6-TL S TRANSISTOR XP1114 (TX) S.TRANSISTOR XP1114 (TX) S TRANSISTOR XP1114 (TX) XP4311 (TX) S.TRANSISTOR S.TRANSISTOR 2SC4835-R (TX) S.FET 2SK880-Y (TE85R)

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	-	[RF U	NITJ		
ESCRIPTION		REF NO.	ORDER NO.	D	ESCRIPTION
2SA1622-6-TL		D73	1720000270	S.VARICAP	1SV217 (TPH2)
XP1213 (TX)		D74	1720000270		1SV217 (TPH2)
2SC4211-6-TL	1	D75	1750000580	1	1SV307 (TPH3)
XP1114 (TX)		D76	1720000270		1SV217 (TPH2)
XP1114 (TX) XP1114 (TX)		D77 D78	1720000270 1720000500		1SV217 (TPH2) 1SV230 (TPH3)
XP4311 (TX)		D79	1720000500		1SV230 (TPH3)
2SC4835-R (TX)		D80	1720000660		1SV288 (TPH2)
2SK880-Y (TE85R)		D81	1720000660		1SV288 (TPH2)
2SC4117-BL (TE85R)		D82	1720000660		1SV288 (TPH2)
2SC5193-T1	[D83	1720000660	S.VARICAP	1SV288 (TPH2)
2SC4835-R (TX)		D84	1750000580	S.DIODE	1SV307 (TPH3)
2SC4835-R (TX)		D85	1750000520	}	DAN222TL
XP4311 (TX)		D86	1750000520		DAN222TL
DTA114EU T107		D87	1750000580	S.DIODE	1SV307 (TPH3)
2SC4835-R (TX)					
2SC4835-R (TX) 2SC4211-6-TL		FI1	2040001270	S.SAW	EFCH266MWNT1
2SK882-GR (TE85L)		FI2	2020001270	1	SFE10.7MV
2SC4211-6-TL		FI3	2020001450	1	SFT10.7MS2-A
DTC144EU T107		FI4	2020001460		CFWS450HT
2SC4211-6-TL	l	FI5	2020001470		CFWS450K3
	I	FI6	2020001460		CFWS450HT
		FI7	2020001210		CFWS450E
1SV307 (TPH3)		FI8	2020001140	S.CERAMIC	SFECA10.7MA-5-A
1SV307 (TPH3)	1				
MA862 (TX)				C YTAL	00 500 (40 000 141-)
MA77 (TW)		X1 X2	6050010120	S.XTAL	CR-588 (10.250 MHz)
MA77 (TW)		X2	6070000210	S.DISCRIMINATOR	CDBCA450CX24
MA862 (TX) MA77 (TW)					
1SV307 (TPH3)		L1	6200001920	S.COIL	ELJNC R15K-F
1SV288 (TPH2)		L2	6200002520		ELJNC R18K-F
1SV288 (TPH2)		L3	6200004900		ELJFC 5R6K-F
1SV288 (TPH2)		L4	6200004900	S.COIL	ELJFC 5R6K-F
1SV288 (TPH2)		L5	6200005500	S.COIL	NL 322522T-471J
1SV307 (TPH3)		L6	6200005540		ELJNC R47K-F
1SV307 (TPH3)		L7	6200005200	S.COIL	ELJNC R68K-F
1SV217 (TPH2)		L8	6200007380	S.COIL	ELJFC 8R2K-F
1SV217 (TPH2)		L9	6200007830	S.COIL	ELJFC 4R7K-F
1SV307 (TPH3)		L10	6200003350	S.COIL S.COIL	ELJNC R27K-F
1SV307 (TPH3) 1SV230 (TPH3)		L11 L12	6200002920 6200005540	S.COIL	ELJNC R33K-F ELJNC R47K-F
1SV230 (TPH3)		L12	6200005540		ELJNC R47K-F
1SV307 (TPH3)		L14	6200003300	S.COIL	ELJNC R22K-F
1SV307 (TPH3)		L15	6200003350	S.COIL	ELJNC R27K-F
1SV230 (TPH3)		L16	6200005550	S.COIL	ELJFC 100K-F
1SV230 (TPH3)		L17	6200007820	S.COIL	ELJND R33J 0.33U
1SV230 (TPH3)		L18	6200001630	S.COIL	ELJNC R10K-F
1SV230 (TPH3)		L19	6200007340	S.COIL	ELJND R22J 0.22U
1SV307 (TPH3)		L20	6200007290	S.COIL	ELJND 56NJF
DAN222TL		L21	6200007280	S.COIL	ELJND 47NJF
DAN222TL 1SV237 (TE85R)		L22 L23	6200002240 6200007290	S.COIL S.COIL	ELJFC 2R2K-F ELJND 56NJF
MA862 (TX)		L23	6200007290	S.COIL	ELJND 47NJF
MA862 (TX)		L25	6200007200	S.COIL	ELJND 68NJF
1SV307 (TPH3)		L26	6200005550	S.COIL	ELJFC 100K-F
1SV214 (TPH2)		L27	6200007280	S.COIL	ELJND 47NJF
1SV307 (TPH3)		L28	6200007280	S.COIL	ELJND 47NJF
1SV307 (TPH3)		L29	6200007280	S.COIL	ELJND 47NJF
1SV214 (TPH2)		L31	6200007290	S.COIL	ELJND 56NJF
1SV307 (TPH3)		L32	6200007070	S.COIL	ELJND 15NKF
DAN222TL MARG2 (TX)		L33 L34	6200007070 6200004230	S.COIL S.COIL	ELJND 15NKF
MA862 (TX) MA862 (TX)		L34 L35	6200004230	S.COIL	ELJNC R56K-F ELJRE 18NG-F
MA862 (TX)		L35	6200005690	S.COIL	ELJRE 18NG-F
MA862 (TX)		L37	6200007290	S.COIL	ELJND 56NJF
MA862 (TX)		L38	6200001620	S.COIL	ELJFC 1R0K-F
1SS375-TL		L39	6200005540	S.COIL	ELJNC R47K-F
MA862 (TX)		L40	6200005690	S.COIL	ELJRE 18NG-F
MA862 (TX)		L41	6200005700	S.COIL	ELJRE 22NG-F
1SV230 (TPH3) MAR62 (TX)		L42	6200005700	S.COIL	ELJRE 22NG-F
MA862 (TX) MA862 (TX)		L44 L45	6200001630 6200005650	S.COIL S.COIL	ELJNC R10K-F ELJRE 8N2Z-F
MA862 (TX)		L45 L46	6200005650	S.COIL	ELJRE 8N2Z-F
MA862 (TX)		L40	6200005700	S.COIL	ELJRE 22NG-F
DAN222TL		L48	6200005540	S.COIL	ELJNC R47K-F
1SS375-TL		L49	6200003300	S.COIL	ELJNC R22K-F
1SS355 TE-17		L51	6200005660	S.COIL	ELJRE 10NG-F
1SS355 TE-17		L52	6200005580	S.COIL	ELJRE 2N2Z-F
1SS355 TE-17		L53	6200005580	S.COIL	ELJRE 2N2Z-F
1SV217 (TPH2)		L54	6200007290	S.COIL	ELJND 56NJF

REF NO.	ORDER NO.	DESCRIPTION			
L55	6200005600	S.COIL	ELJRE 3N3Z-F		
L56	6200006770	S.COIL	ELJRE 1N5Z-F		
L58	6200001630	S.COIL	ELJNC R10K-F		
L59	6140000640	COIL	LR-86		
L60	6200002240	S.COIL	ELJFC 2R2K-F		
L61	6140001500	COIL	LR-171		
L63	6200005740	S.COIL	ELJRE 47NG-F		
L64	6200005720	S.COIL S.COIL	ELJRE 33NG-F ELJFC 1R0K-F		
L65 L66	6200001620 6200005620	S.COIL	ELJRE 4N7Z-F		
L67	6200005650	S.COIL	ELJRE 8N2Z-F		
L68	6200001620	S.COIL	ELJFC 1R0K-F		
L69	6200001620	S.COIL	ELJFC 1R0K-F		
L70	6200005720	S.COIL	ELJRE 33NG-F		
L71	6200005680	S.COIL	ELJRE 15NG-F		
L72	6200005680	S.COIL	ELJRE 15NG-F		
L73	6200003300	S.COIL	ELJNC R22K-F		
L74	6200006040	S.COIL	LQP11A 5N6C14		
L75	6200006070	S.COIL	LQP11A 10NG14		
L76	6200006070	S.COIL	LQP11A 10NG14		
L77	6200005740	S.COIL	ELJRE 47NG-F ELJNC R22K-F		
L78	6200003300 6200001630	S.COIL S.COIL	ELJNG R22K-F ELJNG R10K-F		
L79 L80	6200001630	S.COIL	LQP11A 3N9C14		
L80 L81	6200006020	S.COIL	LQP11A 5N6C14		
L81	6200006040		LQP11A 5N6C14		
L83	6200005720	S.COIL	ELJRE 33NG-F		
L84	6200001630	S.COIL	ELJNC R10K-F		
L85	6200001620	S.COIL	ELJFC 1R0K-F		
L86	6200007420	S.COIL	ELJFC 101K-F 100U		
L87	6200007420	S.COIL	ELJFC 101K-F 100U		
L88	6200005700	S.COIL	ELJRE 22NG-F		
L94	6200005550	S.COIL	ELJFC 100K-F		
L95	6200006430	S.COIL	ELJFC 180K-F		
L96	6200007400	S.COIL	ELJFC 270K-F 27U		
L97	6200007390	S.COIL	ELJFC 120K-F 12U NL 322522T-331J		
L98 L99	6200005490 6200005490	S.COIL S.COIL	NL 3225221-331J NL 322522T-331J		
L99 L100	6200005490	S.COIL	NL 322522T-471J		
L100	6200005500	S.COIL	NL 322522T-471J		
L101	6200007410	S.COIL	ELJFC 470K-F 47U		
L103	6200002240	S.COIL	ELJFC 2R2K-F		
L104	6200002890	S.COIL	ELJFC 220K-F		
L105	6200007420	S.COIL	ELJFC 101K-F 100U		
L106	6150004880	S.COIL	LS-513		
L107	6150004880	S.COIL	LS-513		
L108	6150004880	S.COIL	LS-513		
L110	6200003230 6150004840	S.COIL S.COIL	NL 322522T-181J LS-510		
L112 L113	6200003950		HF50ACC 322513-T		
L113	6200003950	S.COIL	HF50ACC 322513-1		
L115	6200003950	S.COIL	HF50ACC 322513-T		
L116	6200007860	S.COIL	ELJFC 330K-F 33U		
L117	6200007410	S.COIL	ELJFC 470K-F 47U		
L118	6200007410	S.COIL	ELJFC 470K-F 47U		
L119	6200005550	S.COIL	ELJFC 100K-F		
L121	6200003950	S.COIL	HF50ACC 322513-T		
L122	6200003950	S.COIL	HF50ACC 322513-T		
L124	6200002240	S.COIL	ELJFC 2R2K-F LQP21A 68NG14		
L125 L126	6200006160 6200006140	S.COIL S.COIL	LQP21A 88NG14 LQP21A 39NG14		
L120 L127	6200002240	S.COIL	ELJFC 2R2K-F		
L128	6200002240	S.COIL	ELJFC 2R2K-F		
L129	6200001620	S.COIL	ELJFC 1R0K-F		
L130	6200005720	S.COIL	ELJRE 33NG-F		
L131	6200005720	S.COIL	ELJRE 33NG-F		
L132	6200001920	S.COIL	ELJNC R15K-F		
L133	6200003300	S.COIL	ELJNC R22K-F		
L134	6200002920	S.COIL	ELJNC R33K-F		
L135	6200001620	S.COIL	ELJFC 1R0K-F		
L136	6200001620	S.COIL S.COIL	ELJFC 1R0K-F ELJFC 1R0K-F		
L138	6200001620 6200006380	S.COIL	ELJFC TRUK-F ELJFC 150K 15U		
1120		S.COIL	ELJRE 18NG-F		
L139 1 141		S.COIL	ELJRE 18NG-F		
L141	6200005690 6200005690		ELJFC 1R0K-F		
	6200005690 6200005690 6200001620	S.COIL			
L141 L142	6200005690		ELJFC 1R0K-F		
L141 L142 L143	6200005690 6200001620	S.COIL			
L141 L142 L143 L144 L145 L145	6200005690 6200001620 6200001620 6200005500 6200005500	S.COIL S.COIL S.COIL S.COIL	ELJFC 1R0K-F NL 322522T-471J NL 322522T-471J		
L141 L142 L143 L144 L145 L146 L147	6200005690 6200001620 6200001620 6200005500 6200005500 6200007420	S.COIL S.COIL S.COIL S.COIL S.COIL	ELJFC 1R0K-F NL 322522T-471J NL 322522T-471J ELJFC 101K-F 100U		
L141 L142 L143 L144 L145 L145	6200005690 6200001620 6200001620 6200005500 6200005500	S.COIL S.COIL S.COIL S.COIL	ELJFC 1R0K-F NL 322522T-471J NL 322522T-471J		

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REF NO.	ORDER NO.		DESCRIPTION				
L150	6200005740	S.COIL	ELJRE 47NG-F				
L150	6200005200	S.COIL	ELJNC R68K-F				
L152	6200005680	S.COIL	ELJRE 15NG-F				
L153	6200005740	S.COIL	ELJRE 47NG-F				
L154	6200005680 6200005680	S.COIL S.COIL	ELJRE 15NG-F ELJRE 15NG-F				
L155 L156	6200005690	S.COIL	ELJRE 18NG-F				
L157	6200005690	S.COIL	ELJRE 18NG-F				
L158	6200005720	S.COIL	ELJRE 33NG-F				
L160	6200005700	S.COIL	ELJRE 22NG-F				
L161	6200001620	S.COIL	ELJFC 1R0K-F ELJND 15NKF				
L163 L165	6200007070 6200005540	S.COIL S.COIL	ELJNC R47K-F				
L166	6200003300	S.COIL	ELJNC R22K-F				
L167	6200006980	S.COIL	ELJRE R10G-F				
L168	6200006980	S.COIL	ELJRE R10G-F				
L169	6200005500	S.COIL	NL 322522T-471J				
L170 L171	6200005500 6200005500	S.COIL S.COIL	NL 322522T-471J NL 322522T-471J				
L172	6200002520	S.COIL	ELJNC R18K-F				
L173	6200005620	S.COIL	ELJRE 4N7Z-F				
L174	6200005600	S.COIL	ELJRE 3N3Z-F				
L175	6200007860	S.COIL	ELJFC 330K-F 33U				
L176	6200005630	S.COIL	ELJRE 5N6Z-F				
		0.05010505					
R1 R2	703000330	S.RESISTOR S.RESISTOR	MCR10EZHJ 390 Ω (391) ERJ3GEYJ 102 V (1 kΩ)				
R3	7030003440	S.RESISTOR	MCR10EZHJ 56 Ω (560)				
R5	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)				
R6	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)				
R8	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)				
R9	7030000020	S.RESISTOR	MCR10EZHJ 1 Ω (010)				
R14 R15	7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)				
R17	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)				
R19	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)				
R20	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)				
R22	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)				
R23	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 474 V (470 kΩ)				
R24 R26	7030003760	S.RESISTOR S.RESISTOR	ERJ3GEYJ 560 V (56 Ω)				
R28	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)				
R29	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)				
R30	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)				
R33	7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 474 V (470 kΩ)				
R34 R35	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)				
R36	7030003290	S.RESISTOR	ERJ3GEYJ 560 V (56 Ω)				
R38	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)				
R39	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)				
R43 R44	7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 474 V (470 kΩ)				
R45	7030003290	S.RESISTOR	ERJ3GEYJ 560 V (56 Ω)				
R47	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)				
R48	7030004050	S.RESISTOR	ERJ3GEYJ 1R0 V (1 Ω)				
R49	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)				
R50 R53	7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 KΩ) ERJ3GEYJ 473 V (47 kΩ)				
R54	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)				
R55	7030003290	S.RESISTOR	ERJ3GEYJ 560 V (56 Ω)				
R57	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)				
R59	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)				
R72 R73	7030003310	S.RESISTOR S.RESISTOR	ERJ3GEYJ 820 V (82 Ω) ERJ3GEYJ 1R0 V (1 Ω)				
R74	7030004030	S.RESISTOR	ERJ8ENF 47R0V (47 Ω)				
R75	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)				
R76	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)				
R77 R79	7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 104 V (100 kΩ)				
R79 R80	7030003680	S.RESISTOR	ERJ3GEYJ 273 V (27 kΩ)				
R81	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)				
R82	7030003420	S.RESISTOR	ERJ3GEYJ 681 V (680 Ω)				
R83	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)				
R84	7030003200	S.RESISTOR S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 101 V (100 Ω)				
R87 R88	7030003320	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)				
R89	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)				
R90	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)				
R92	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)				
R93 R94	7030003270	S.RESISTOR S.RESISTOR	ERJ3GEYJ 390 V (39 Ω) ERJ3GEYJ 151 V (150 Ω)				
134	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	JAILOID ION					

[RF UNIT]

ref No.	ORDER NO.		DESCRIPTION	REF NO.	ORDER NO.		DESCRIPTION
795	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)	R199	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470
196	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	R200	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10
197		S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	R202	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22
198		S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)	R203	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10
199		S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)	R204	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470
100	4	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	R206	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2
101		S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)	R207	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2
102		S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)	R209	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2
103		S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)	R210	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3
104		S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	R211	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (22)
R106		S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	R212	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100
₹108 ₹109		S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 101 V (100 Ω)	R213 R214	7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 ERJ3GEYJ 222 V (2.2
1109	7030003320		ERJ3GEYJ 101 V (100 Ω)	R214	7030003480	S.RESISTOR	ERJ3GEYJ 472 V (4.7
8111		S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)	R216	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (10
112		S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)	R217	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47
113		S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)	R218	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22
114		S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	R219	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7
116	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	R220	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (10
122	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)	R221	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47
123	7030003390	S.RESISTOR	ERJ3GEYJ 391 V (390 Ω)	R222	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22
124	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ)	R223	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7
125		S.RESISTOR	ERJ3GEYJ 561 V (560 Ω)	R224	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7
1126		S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	R225	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (10
127	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	R226	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47
128	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	R227	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22
129	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)	R228	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22
130	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	R229	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47
131	7030003650	S.RESISTOR	ERJ3GEYJ 563 V (56 kΩ)	R230	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7
132	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)	R231	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5
133	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	R232	7030003410	S.RESISTOR	ERJ3GEYJ 561 V (56
134	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	R233	7030003700	S.RESISTOR	ERJ3GEYJ 154 V (15
135	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	R234	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8
136	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	R235	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 k
137	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	R236	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 k
139	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ)	R237	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10
140	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)	R238	7030003440		ERJ3GEYJ 102 V (1 k
141	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	R239	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47
145	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	R240	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2
₹146		S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)	R241	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2
149		S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	R242	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47
1150		S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	R243	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47
151	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	R245	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10
152	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	R246	7030003650	S.RESISTOR	ERJ3GEYJ 563 V (56
R153 R154	7030003480 7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	R247 R248	7030003510	S.RESISTOR	ERJ3GEYJ 392 V (3.9 ERJ3GEYJ 474 V (47(
R155	7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)	R240	7030003760 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10
156	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	R250	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10
1157	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	R251	7030003320	S.RESISTOR -	ERJ3GEYJ 101 V (10
158	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	R252	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22
159	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	R253	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (10
160	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	R256	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7
161		S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	R257	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47
164		S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	R258	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47
166	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	R259	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22
168	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	R260	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22
169	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ)	R261	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22
170	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)	R262	7030003470	S.RESISTOR	ERJ3GEYJ 182 V (1.8
171	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	R263	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 k
172		S.RESISTOR	ERJ3GEYJ 1R0 V (1 Ω)	R264	7030003710	S.RESISTOR	ERJ3GEYJ 184 V (180
173		S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	R266	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220
174	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)	R267	7030003650	S.RESISTOR	ERJ3GEYJ 563 V (56
176		S.RESISTOR	ERJ3GEYJ 1R0 V (1 Ω)	R268	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47
177		S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)	R270		S.RESISTOR	ERJ3GEYJ 101 V (100
179		S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	R271		S.RESISTOR	ERJ3GEYJ 104 V (100
180		S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	R272		S.RESISTOR	ERJ3GEYJ 154 V (150
181		S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	R274		S.RESISTOR	ERJ3GEYJ 333 V (33
182		S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)	R275		S.RESISTOR	ERJ3GEYJ 151 V (150
183		S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	R277		S.RESISTOR	ERJ3GEYJ 101 V (100
184 185		S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ) ERJ3GEY I 102 V (1 kΩ)	R278 R279		S.RESISTOR	ERJ3GEYJ 224 V (220
185		S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) EBJ3GEYJ 101 V (100 Ω)			S.RESISTOR	ERJ3GEYJ 102 V (1 k EB 13GEY I 472 V (4 7
186		S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 104 V (100 kΩ)	R281 R282		S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 ERJ3GEYJ 102 V (1 k
189		S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	R284		S.RESISTOR	ERJ3GEYJ 102 V (1 K ERJ3GEYJ 225 V (2.2
190		S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	R284	7030003840	S.RESISTOR	ERJ3GEYJ 225 V (2.2 ERJ3GEYJ 472 V (4.7
191		S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)	R286		S.RESISTOR	ERJ3GEYJ 1R0 V (1.)
192		S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	R288	7030004050	S.RESISTOR	ERJ3GEYJ 472 V (4.7
193		S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	R289	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22
194		S.RESISTOR	ERJ3GEYJ 220 V (22 Ω)	R290	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100
	1	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	R291	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10
195	10000000000000		·····/				
195 197	I	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	R292	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100

REF OR.O. DESCRIPTION R294 7030003440 S.RESISTOR ERJ3GEYJ 682 V (6.8 kG) R286 7030003400 S.RESISTOR ERJ3GEYJ 682 V (6.8 kG) R287 7030003400 S.RESISTOR ERJ3GEYJ 682 V (68 kG) R287 7030003400 S.RESISTOR ERJ3GEYJ 101 V (100 G) R300 7030003500 S.RESISTOR ERJ3GEYJ 102 V (1 kG) R301 7030003500 S.RESISTOR ERJ3GEYJ 102 V (1 kG) R302 7030003500 S.RESISTOR ERJ3GEYJ 102 V (1 kG) R304 703000320 S.RESISTOR ERJ3GEYJ 102 V (1 kG) R304 703000320 S.RESISTOR ERJ3GEYJ 102 V (1 kG) R310 703000320 S.RESISTOR ERJ3GEYJ 123 V (12 kG) R311 703000340 S.RESISTOR ERJ3GEYJ 123 V (12 kG) R313 703000340 S.RESISTOR ERJ3GEYJ 122 V (12 kG) R314 703000340 S.RESISTOR ERJ3GEYJ 122 V (12 kG) R316 703000340 S.RESISTOR ERJ3GEYJ 122 V (12 kG) R316 R								
Page 7030003400 S.RESISTOR ERJ3GEVJ 682 V (68 kJ) P286 7030003800 S.RESISTOR ERJ3GEVJ 682 V (68 kJ) P287 7030003400 S.RESISTOR ERJ3GEVJ 682 V (68 kJ) P286 7030003400 S.RESISTOR ERJ3GEVJ 102 V (10k) P300 7030003400 S.RESISTOR ERJ3GEVJ 102 V (1k4) P301 7030003400 S.RESISTOR ERJ3GEVJ 102 V (1k4) P303 7030003400 S.RESISTOR ERJ3GEVJ 102 V (1k4) P304 7030003400 S.RESISTOR ERJ3GEVJ 103 V (10 kQ) P304 7030003400 S.RESISTOR ERJ3GEVJ 104 V (100 LQ) P311 7030003800 S.RESISTOR ERJ3GEVJ 103 V (11 kQ) P314 703000320 S.RESISTOR ERJ3GEVJ 103 V (11 kQ) P314 703000320 S.RESISTOR ERJ3GEVJ 103 V (10 kQ) <th>REF NO.</th> <th>ORDER NO.</th> <th colspan="5">DESCRIPTION</th>	REF NO.	ORDER NO.	DESCRIPTION					
Page 7030003840 S.RESISTOR ENJSGEV J 682 V (68 kG) Page 7030003860 S.RESISTOR ENJSGEV J 682 V (68 kG) Page 7030003840 S.RESISTOR ENJSGEV J 682 V (68 kG) Page 7030003840 S.RESISTOR ENJSGEV J 101 V (100 G) R300 T730003400 S.RESISTOR ENJSGEV J 102 V (1 kG) R301 7030003400 S.RESISTOR ENJSGEV J 102 V (1 kG) R303 7030003400 S.RESISTOR ENJSGEV J 102 V (1 kG) R304 7030003400 S.RESISTOR ENJSGEV J 102 V (1 kG) R304 7030003400 S.RESISTOR ENJSGEV J 102 V (1 kG) R311 7030003400 S.RESISTOR ENJSGEV J 33 V (33 kG) R311 7030003400 S.RESISTOR ENJSGEV J 102 V (1 kG) R314 7030003400 S.RESISTOR ENJSGEV J 102 V (1 kG) R316 7030003400 S.RESISTOR ENJSGEV J 102 V (1 kG) R316 7030003400 S.RESISTOR ENJSGEV J 102 V (1 kG) R316 703000320 S RESISTOR ENJSGEV J 47 V (47 kG)	R294	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)				
R287 703000360 S.RESISTOR E.RJ3GEVJ 683 V (68 kG) R288 703000320 S.RESISTOR ERJ3GEVJ 147 V (47 kG) R301 7030003400 S.RESISTOR ERJ3GEVJ 132 V (13 kG) R302 7030003400 S.RESISTOR ERJ3GEVJ 132 V (13 kG) R302 7030003400 S.RESISTOR ERJ3GEVJ 103 V (10 kG) R304 7030003400 S.RESISTOR ERJ3GEVJ 104 V (100 G) R304 7030003400 S.RESISTOR ERJ3GEVJ 104 V (100 G) R311 7030003400 S.RESISTOR ERJ3GEVJ 105 V (1 MG) R311 7030003400 S.RESISTOR ERJ3GEVJ 105 V (1 MG) R314 7030003400 S.RESISTOR ERJ3GEVJ 128 V (12 kG) R315 7030003400 S.RESISTOR ERJ3GEVJ 128 V (12 kG) R316 7030003500 S.RESISTOR ERJ3GEVJ 128 V (12 kG) R317 703000360 S.RESISTOR ERJ3GEVJ 128 V (12 kG) R316 703000320 S.RESISTOR ERJ3GEVJ 128 V (12 kG) R321 703000360 S.RESISTOR ERJ3GEVJ 128 V (14 kG) <		7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)				
Pase Togoodsedo S.RESISTOR ERJSGEVJ 473 V (47 kg) Pase Togoods200 S.RESISTOR ERJSGEVJ 102 V (1 kg) R301 Togoods200 S.RESISTOR ERJSGEVJ 102 V (1 kg) R301 Togoods200 S.RESISTOR ERJSGEVJ 102 V (1 kg) R302 Togoods400 S.RESISTOR ERJSGEVJ 103 V (10 kg) R303 Togoods400 S.RESISTOR ERJSGEVJ 104 V (100 kg) R311 Togoods200 S.RESISTOR ERJSGEVJ 104 V (100 kg) R311 Togoods200 S.RESISTOR ERJSGEVJ 122 V (12 kg) R311 Togoods40 S.RESISTOR ERJSGEVJ 122 V (12 kg) R313 Togoods40 S.RESISTOR ERJSGEVJ 122 V (12 kg) R314 Togoods40 S.RESISTOR ERJSGEVJ 122 V (12 kg) R316 Toggoods40 S.RESISTOR ERJSGEVJ 122 V (12 kg) R317 Toggoods40 S.RESISTOR ERJSGEVJ 123 V (17 kg) R316 Toggoods40 S.RESISTOR ERJSGEVJ 123 V (17 kg) R322 Toggoods40 S.RESISTOR ERJSGEVJ 123 V (17 kg)	1	1	1					
Page 703000340 S.RESISTOR ERJ3GEV_J 101 V (100 CJ) R300 7030003400 S.RESISTOR ERJ3GEV_J 332 V (3.3 kG) R302 7030003500 S.RESISTOR ERJ3GEV_J 332 V (3.3 kG) R303 7030003600 S.RESISTOR ERJ3GEV_J 103 V (10 kG) R304 7030003600 S.RESISTOR ERJ3GEV_J 103 V (10 kG) R304 7030003600 S.RESISTOR ERJ3GEV_J 104 V (100 G) R311 7030003620 S.RESISTOR ERJ3GEV_J 104 V (100 G) R311 7030003800 S.RESISTOR ERJ3GEV_J 105 V (1 MG) R311 7030003800 S.RESISTOR ERJ3GEV_J 128 V (12 kG) R314 7030003800 S.RESISTOR ERJ3GEV_J 132 V (10 kG) R316 7030003800 S.RESISTOR ERJ3GEV_J 132 V (14 kG) R317 7030003800 S.RESISTOR ERJ3GEV_J 132 V (14 kG) R318 7030003800 S.RESISTOR ERJ3GEV_J 132 V (14 kG) R321 703000360 S.RESISTOR ERJ3GEV_J 132 V (14 kG) R322 703000360 S.RESISTOR ERJ3GEV_J 132	1		1					
R300 7030003400 S.RESISTOR EHJGEYJ 102 V (1 k0) R301 7030003500 S.RESISTOR EHJGEYJ 332 V (3.3 kd) R302 7030003600 S.RESISTOR EHJGEYJ 332 V (3.3 kd) R303 7030003600 S.RESISTOR EHJGEYJ 332 V (10 kd) R309 7030003800 S.RESISTOR EHJGEYJ 332 V (10 kd) R311 7030003800 S.RESISTOR EHJGEYJ 103 V (10 kd) R311 7030003800 S.RESISTOR EHJGEYJ 105 V (1 kd) R313 7030003400 S.RESISTOR EHJGEYJ 122 V (1 kd) R314 7030003400 S.RESISTOR EHJGEYJ 122 V (1 kd) R317 7030003400 S.RESISTOR EHJGEYJ 132 V (1 kd) R318 7030003400 S.RESISTOR EHJGEYJ 132 V (1 kd) R317 703000340 S.RESISTOR EHJGEYJ 132 V (1 kd) R321 703000340 S.RESISTOR EHJGEYJ 132 V (1 kd) R322 703000360 S.RESISTOR EHJGEYJ 132 V (1 kd) R322 703000360 S.RESISTOR EHJGEYJ 132 V (1 kd)	1	1						
R301 7030003500 S.RESISTOR EHJ3GEYJ 322 V (3.3 ka) R302 7030003560 S.RESISTOR EHJ3GEYJ 103 V (10 ka) R304 7030003600 S.RESISTOR EHJ3GEYJ 104 V (100 ka) R311 7030003800 S.RESISTOR EHJ3GEYJ 104 V (100 ka) R311 7030003800 S.RESISTOR EHJ3GEYJ 104 V (100 ka) R312 7030003800 S.RESISTOR EHJ3GEYJ 104 V (100 ka) R313 7030003800 S.RESISTOR EHJ3GEYJ 102 V (14 ka) R314 7030003840 S.RESISTOR EHJ3GEYJ 102 V (14 ka) R316 7030003440 S.RESISTOR EHJ3GEYJ 102 V (14 ka) R317 7030003400 S.RESISTOR EHJ3GEYJ 103 V (10 ka) R322 7030003400 S.RESISTOR EHJ3GEYJ 103 V (10 ka) R321 7030003400 S.RESISTOR EHJ3GEYJ 103 V (10 ka) R322 7030003400 S.RESISTOR EHJ3GEYJ 132 V (12 ka) R321 7030003400 S.RESISTOR EHJ3GEYJ 132 V (12 ka) R322 7030003400 S.RESISTOR EHJ3GEYJ 132 V (10 ka	1		1					
R304 7030003640 S.RESISTOR EDJ3GEYJ 103 V (10 kG) R304 7030003840 S.RESISTOR ERJ3GEYJ 104 V (100 kG) R310 7030003840 S.RESISTOR ERJ3GEYJ 104 V (100 kG) R311 7030003840 S.RESISTOR ERJ3GEYJ 104 V (100 kG) R312 7030003840 S.RESISTOR ERJ3GEYJ 104 V (100 kG) R313 7030003840 S.RESISTOR ERJ3GEYJ 102 V (14 kG) R314 7030003840 S.RESISTOR ERJ3GEYJ 102 V (14 kG) R317 7030003840 S.RESISTOR ERJ3GEYJ 102 V (14 kG) R317 7030003840 S.RESISTOR ERJ3GEYJ 102 V (14 kG) R317 7030003840 S.RESISTOR ERJ3GEYJ 103 V (10 kG) R321 7030003840 S.RESISTOR ERJ3GEYJ 123 V (12 kG) R321 7030003840 S.RESISTOR ERJ3GEYJ 123 V (12 kG) R322 703003840 S.RESISTOR ERJ3GEYJ 134 V (100 kG) R323 703003840 S.RESISTOR ERJ3GEYJ 134 V (100 kG) R324 703000720 S.RESISTOR ERJ3GEYJ 104 V (100 kG)<	1		1	ERJ3GEYJ 332 V (3.3 kΩ)				
R309 7030003640 S.RESISTOR EHJ3GEYJ 104 V (100 kΩ) R310 7030003800 S.RESISTOR EHJ3GEYJ 101 V (100 kΩ) R311 7030003700 S.RESISTOR EHJ3GEYJ 101 V (100 kΩ) R311 7030003700 S.RESISTOR EHJ3GEYJ 105 V (11 MΩ) R313 7030003700 S.RESISTOR EHJ3GEYJ 162 V (12 kΩ) R315 7030003400 S.RESISTOR EHJ3GEYJ 162 V (14 kΩ) R316 7030003400 S.RESISTOR EHJ3GEYJ 162 V (14 kΩ) R317 7030003500 S.RESISTOR EHJ3GEYJ 162 V (14 kΩ) R318 7030003500 S.RESISTOR EHJ3GEYJ 162 V (14 kΩ) R321 7030003500 S.RESISTOR EHJ3GEYJ 123 V (17 kΩ) R322 7030003600 S.RESISTOR EHJ3GEYJ 123 V (17 kΩ) R322 7030003600 S.RESISTOR EHJ3GEYJ 123 V (17 kΩ) R322 7030003600 S.RESISTOR EHJ3GEYJ 133 V (16 kΩ) R322 7030003600 S.RESISTOR EHJ3GEYJ 133 V (16 kΩ) R322 7030007200 S.RESISTOR EHJ3GEYJ 133 V (16 kΩ)<	1							
R300 7030003820 S.RESISTOR ERUGGEV1 104 V (100 kD) R311 7030003820 S.RESISTOR ERUGEV1 333 V (33 kD) R312 703000370 S.RESISTOR ERUGEV1 333 V (33 kD) R313 703000370 S.RESISTOR ERUGEV1 123 V (12 kD) R314 7030003400 S.RESISTOR ERUGEV1 122 V (12 kD) R315 7030003400 S.RESISTOR ERUGEV1 102 V (1 kD) R316 7030003400 S.RESISTOR ERUGEV1 102 V (1 kD) R317 7030003500 S.RESISTOR ERUGEV1 103 V (10 kD) R321 7030003600 S.RESISTOR ERUGEV1 123 V (12 kD) R321 7030003600 S.RESISTOR ERUGEV1 122 V (12 kD) R321 7030003600 S.RESISTOR ERUGEV1 122 V (12 kD) R324 7030003600 S.RESISTOR ERUGEV1 134 V (100 kD) R325 7030003600 S.RESISTOR ERUGEV1 134 V (100 kD) R326 7030007200 S.RESISTOR ERUGEV1 143 V (17 kD) R327 7030007200 S.RESISTOR ERUGEV1 142 V (100 kD)								
R310 7030003200 S.RESISTOR EHJ3GEYJ 101 V (100 Ω) R311 7030003200 S.RESISTOR EHJ3GEYJ 133 V (33 kQ) R312 7030003570 S.RESISTOR EHJ3GEYJ 105 V (12 kQ) R314 7030003800 S.RESISTOR EHJ3GEYJ 105 V (11 kQ) R315 7030003400 S.RESISTOR EHJ3GEYJ 105 V (11 kQ) R317 7030003400 S.RESISTOR EHJ3GEYJ 102 V (11 kQ) R317 7030003500 S.RESISTOR EHJ3GEYJ 102 V (11 kQ) R317 7030003500 S.RESISTOR EHJ3GEYJ 123 V (12 kQ) R321 7030003500 S.RESISTOR EHJ3GEYJ 123 V (12 kQ) R322 7030003500 S.RESISTOR EHJ3GEYJ 123 V (12 kQ) R322 7030003600 S.RESISTOR EHJ3GEYJ 123 V (12 kQ) R322 7030003700 S.RESISTOR EHJ3GEYJ 123 V (12 kQ) R322 7030003600 S.RESISTOR EHJ3GEYJ 123 V (17 kQ) R322 7030003700 S.RESISTOR EHJ3GEYJ 123 V (17 kQ) R322 7030007200 S.RESISTOR EHJ3GEYJ 123 V (17 kQ) R325 7030007200 S.RESISTOR EHJ3GEY			1	ERJ3GEYJ 104 V (100 kΩ)				
R312 7030003700 S.RESISTOR ERJ3GEVJ 163 V (E60 kG) R313 7030003800 S.RESISTOR ERJ3GEVJ 123 V (12 kG) R314 7030003800 S.RESISTOR ERJ3GEVJ 105 V (11 kG) R315 7030003400 S.RESISTOR ERJ3GEVJ 102 V (14 kG) R317 7030003400 S.RESISTOR ERJ3GEVJ 103 V (10 kG) R318 7030003500 S.RESISTOR ERJ3GEVJ 123 V (12 kG) R321 7030003500 S.RESISTOR ERJ3GEVJ 123 V (12 kG) R322 7030003500 S.RESISTOR ERJ3GEVJ 123 V (12 kG) R322 7030003600 S.RESISTOR ERJ3GEVJ 123 V (12 kG) R322 7030003600 S.RESISTOR ERJ3GEVJ 134 V (10 kG) R322 703000360 S.RESISTOR ERJ3GEVJ 154 V (10 kG) R322 703000720 S.RESISTOR ERJ3GEVJ 154 V (10 kG) R323 703000720 S.RESISTOR ERJ3GEVJ 154 V (10 kG) R324 703000720 S.RESISTOR ERJ3GEVJ 154 V (10 kG) R325 703000720 S.RESISTOR ERJ3GEVJ 154 V (10 kG)	1			ERJ3GEYJ 101 V (100 Ω)				
R313 7030003500 S.RESISTOR ERJ3GEY J 123 V 12 kΩJ R314 7030003800 S.RESISTOR ERJ3GEY J 105 V (1 MΩJ) R315 7030003840 S.RESISTOR ERJ3GEY J 122 V (2.2 MQJ) R316 7030003470 S.RESISTOR ERJ3GEY J 122 V (1 kQ) R317 7030003560 S.RESISTOR ERJ3GEY J 133 V (10 kQ) R320 7030003560 S.RESISTOR ERJ3GEY J 133 V (10 kQ) R321 7030003560 S.RESISTOR ERJ3GEY J 133 V (10 kQ) R321 7030003560 S.RESISTOR ERJ3GEY J 473 V (47 kQ) R322 703000360 S.RESISTOR ERJ3GEY J 473 V (47 kQ) R324 703000360 S.RESISTOR ERJ3GEY J 474 V (100 kQ) R325 703000360 S.RESISTOR ERJ3GEY J 474 V (100 kQ) R326 703000720 S.RESISTOR ERJ3GEY J 474 V (100 kQ) R326 703000720 S.RESISTOR ERJ3GEY J 474 V (100 kQ) R326 703000720 S.RESISTOR ERJ3GEY J 494 V (100 kQ) R326 703000720 S.RESISTOR ERA3YED 102V </td <td></td> <td></td> <td>3</td> <td></td>			3					
R314 7030003800 S.RESISTOR ERJ3GEY J 105 V (1 MG) R315 7030003440 S.RESISTOR ERJ3GEY J 225 V (2.2 MG) R316 7030003440 S.RESISTOR ERJ3GEY J 102 V (1 kQ) R317 703000340 S.RESISTOR ERJ3GEY J 132 V (1 kQ) R318 703000350 S.RESISTOR ERJ3GEY J 153 V (1 kQ) R321 703000350 S.RESISTOR ERJ3GEY J 173 V (17 kQ) R322 703000350 S.RESISTOR ERJ3GEY J 173 V (10 kQ) R322 703000350 S.RESISTOR ERJ3GEY J 473 V (47 kQ) R322 703000360 S.RESISTOR ERJ3GEY J 473 V (47 kQ) R322 703000360 S.RESISTOR ERJ3GEY J 145 V (10 kQ) R322 7030003700 S.RESISTOR ERJ3GEY J 145 V (10 kQ) R322 703000720 S.RESISTOR ERJ3GEY J 145 V (10 kQ) R323 703000720 S.RESISTOR ERJ3GEY J 145 V (10 kQ) R324 703000720 S.RESISTOR ERJ3GEY J 145 V (10 kQ) R335 703000720 S.RESISTOR ERJ3GEY J 140 V (10 kQ) <td>1</td> <td></td> <td></td> <td></td>	1							
R316 7030003470 S.RESISTOR ERJ3GEYJ 102 V (1 kG) R317 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kG) R318 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kG) R320 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kG) R321 7030003560 S.RESISTOR ERJ3GEYJ 123 V (12 kG) R322 7030003480 S.RESISTOR ERJ3GEYJ 123 V (10 GG) R324 7030003480 S.RESISTOR ERJ3GEYJ 142 V (10 GG) R325 7030003480 S.RESISTOR ERJ3GEYJ 133 V (10 kG) R326 703000320 S.RESISTOR ERJ3GEYJ 133 V (10 kG) R327 703000720 S.RESISTOR ERA3YED 202V R335 7030007220 S.RESISTOR ERA3YED 102V R354 7030007220 S.RESISTOR ERA3YED 102V R355 7030007220 S.RESISTOR ERA3YED 102V R356 7030007220 S.RESISTOR ERA3YED 102V R356 7030007220 S.RESISTOR ERA3YED 102V R356 70300072	1	1	1	ERJ3GEYJ 105 V (1 MΩ)				
R317 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R318 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R320 7030003560 S.RESISTOR ERJ3GEYJ 133 V (15 kΩ) R321 7030003570 S.RESISTOR ERJ3GEYJ 122 V (12 kΩ) R322 7030003400 S.RESISTOR ERJ3GEYJ 122 V (22 kΩ) R324 703000360 S.RESISTOR ERJ3GEYJ 144 V (100 kΩ) R325 7030003620 S.RESISTOR ERJ3GEYJ 144 V (100 kΩ) R326 7030003620 S.RESISTOR ERJ3GEYJ 133 V (15 kΩ) R327 703000720 S.RESISTOR ERA3VED 202V R335 703000720 S.RESISTOR ERA3VED 102V R354 703000720 S.RESISTOR ERA3VED 102V R354 703000720 S.RESISTOR ERA3VED 102V R355 703007230 S.RESISTOR ERA3VED 102V R356 703007220 S.RESISTOR ERA3VED 102V R356 703007230 S.RESISTOR ERA3VED 102V R366 703007220				ERJ3GEYJ 225 V (2.2 MΩ)				
R318 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kL) R319 7030003540 S. RESISTOR ERJ3GEYJ 153 V (15 kL) R321 7030003540 S. RESISTOR ERJ3GEYJ 123 V (12 kL) R322 703000340 S. RESISTOR ERJ3GEYJ 123 V (10 kL) R322 703000340 S. RESISTOR ERJ3GEYJ 123 V (10 kL) R324 703000340 S. RESISTOR ERJ3GEYJ 124 V (10 kL) R325 703000360 S. RESISTOR ERJ3GEYJ 154 V (10 kL) R325 703000720 S. RESISTOR ERJ3GEYJ 154 V (10 kL) R327 703000720 S. RESISTOR ERA3YED 202V R353 R351 7030007230 S. RESISTOR ERA3YED 102V R355 R355 7030007230 S. RESISTOR ERA3YED 102V R356 R356 7030007230 S. RESISTOR ERA3YED 102V R356 R356 7030007230 S. RESISTOR ERA3YED 102V R356 R356 7030007230	1	3	1					
R319 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R321 7030003570 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R322 703000380 S.RESISTOR ERJ3GEYJ 122 V (12 kΩ) R322 703000340 S.RESISTOR ERJ3GEYJ 122 V (22 kΩ) R324 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R325 703000360 S.RESISTOR ERJ3GEYJ 144 V (100 kΩ) R326 7030003620 S.RESISTOR ERJ3GEYJ 143 V (150 kΩ) R327 703000720 S.RESISTOR ERA3YED 202V R353 703000720 S.RESISTOR ERA3YED 202V R354 703000720 S.RESISTOR ERA3YED 102V R355 703000720 S.RESISTOR ERA3YED 102V R356 703007220 S.RESISTOR ERA3YED 102V R361 703000720 S.RESIS								
R321 7030003570 S.RESISTOR ERJ3GEYJ 123 V (12 kg) R322 7030003320 S.RESISTOR ERJ3GEYJ 11 V (100 Ω) R323 7030003400 S.RESISTOR ERJ3GEYJ 12 V (2.2 kg) R324 7030003600 S.RESISTOR ERJ3GEYJ 13 V (47 kg) R325 7030003600 S.RESISTOR ERJ3GEYJ 13 V (47 kg) R327 7030003620 S.RESISTOR ERA3YED 202V R351 7030007220 S.RESISTOR ERA3YED 202V R355 7030007220 S.RESISTOR ERA3YED 202V R355 7030007230 S.RESISTOR ERA3YED 102V R356 7030007230 S.RESISTOR ERA3YED 202V R356 7030007230 S.RESISTOR ERA3YED 202V R356 7030007230 S.RESISTOR ERA3YED 202V R366 7030007230 S.RESISTOR ERA3YED 202V R361 7030007210 S.RESISTOR ERA3YED	1							
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R3807030003280S.RESISTORERJ3GEYJ 470 V (47 Ω)R3817030003400S.RESISTORERJ3GEYJ 471 V (470 Ω)R3827030003700S.RESISTORERJ3GEYJ 154 V (150 kΩ)R3837030003400S.RESISTORERJ3GEYJ 124 V (160 Ω)R3837030003400S.RESISTORERJ3GEYJ 21 V (220 Ω)R3917030003400S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3927030003440S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3937030003440S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3947030003400S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3957030003400S.RESISTORERJ3GEYJ 101 V (100 Ω)R396703000320S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3977030003400S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3987030003400S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3997030003400S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3997030003400S.RESISTORERJ3GEYJ 102 V (1 kΩ)R4007030003400S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R401703000320S.RESISTORERJ3GEYJ 102 V (1 kΩ)R402703000320S.RESISTORERJ3GEYJ 101 V (100 Ω)R403703000320S.RESISTORERJ3GEYJ 102 V (1 kΩ)R404703000320S.RESISTORERJ3GEYJ 101 V (100 Ω)R405703000320S.RESISTORERJ3GEYJ 102 V (1.5 kΩ)R406703000320S.RESISTORERJ3GEYJ 392 V (3.9 kΩ)R406703000320S.RESISTOR<								
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R3917030003360S.RESISTORERJ3GEYJ 221 V (220 Ω)R3927030003440S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3937030003440S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3947030003400S.RESISTORERJ3GEYJ 223 V (22 kΩ)R3957030003600S.RESISTORERJ3GEYJ 223 V (22 kΩ)R3967030003400S.RESISTORERJ3GEYJ 223 V (22 kΩ)R3977030003400S.RESISTORERJ3GEYJ 223 V (22 kΩ)R3987030003400S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R3997030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4007030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4017030003400S.RESISTORERJ3GEYJ 212 V (220 Ω)R4027030003400S.RESISTORERJ3GEYJ 101 V (100 Ω)R4037030003320S.RESISTORERJ3GEYJ 101 V (100 Ω)R4047030003320S.RESISTORERJ3GEYJ 101 V (100 Ω)R4057030003320S.RESISTORERJ3GEYJ 392 V (3.9 kΩ)R4067030003300S.RESISTORERJ3GEYJ 101 V (100 Ω)R407703000360S.RESISTORERJ3GEYJ 122 V (220 Ω)R408703000360S.RESISTORERJ3GEYJ 221 V (220 Ω)R409703000360S.RESISTORERJ3GEYJ 210 V (47 Ω)R4087030003800S.RESISTORERJ3GEYJ 221 V (220 Ω)R4087030003800S.RESISTORERJ3GEYJ 221 V (220 Ω)R4087030003800S.RESISTORERJ3GEYJ 221 V (220 Ω)R4087030003800								
R3927030003440S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3937030003440S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3947030003400S.RESISTORERJ3GEYJ 471 V (470 Ω)R3957030003000S.RESISTORERJ3GEYJ 223 V (22 kΩ)R3967030003200S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3977030003400S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3987030003400S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3997030003440S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R3997030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4007030003400S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4017030003400S.RESISTORERJ3GEYJ 21 V (220 Ω)R4027030003360S.RESISTORERJ3GEYJ 102 V (1 kΩ)R4037030003320S.RESISTORERJ3GEYJ 101 V (100 Ω)R4047030003320S.RESISTORERJ3GEYJ 101 V (100 Ω)R4057030003320S.RESISTORERJ3GEYJ 392 V (3.9 kΩ)R4067030003360S.RESISTORERJ3GEYJ 132 V (1.5 kΩ)R407703000360S.RESISTORERJ3GEYJ 221 V (220 Ω)R4087030003280S.RESISTORERJ3GEYJ 470 V (47 Ω)R4097030003800S.RESISTORERJ3GEYJ 105 V (1 MΩ)R411703000360S.RESISTORERJ3GEYJ 221 V (220 Ω)								
R3947030003400S.RESISTORERJ3GEYJ 471 V (470 Ω)R3957030003600S.RESISTORERJ3GEYJ 223 V (22 kΩ)R396703000320S.RESISTORERJ3GEYJ 101 V (100 Ω)R3977030003440S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3987030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R3997030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4007030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4017030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4027030003400S.RESISTORERJ3GEYJ 221 V (220 Ω)R403703000320S.RESISTORERJ3GEYJ 101 V (100 Ω)R404703000320S.RESISTORERJ3GEYJ 101 V (100 Ω)R4057030003510S.RESISTORERJ3GEYJ 392 V (3.9 kΩ)R406703000360S.RESISTORERJ3GEYJ 152 V (1.5 kΩ)R407703000360S.RESISTORERJ3GEYJ 21 V (220 Ω)R408703000360S.RESISTORERJ3GEYJ 21 V (220 Ω)R408703000360S.RESISTORERJ3GEYJ 21 V (220 Ω)R409703000380S.RESISTORERJ3GEYJ 470 V (47 Ω)R409703000380S.RESISTORERJ3GEYJ 470 V (47 Ω)R401703000380S.RESISTORERJ3GEYJ 221 V (220 Ω)R4097030003800S.RESISTORERJ3GEYJ 221 V (220 Ω)R4097030003800S.RESISTORERJ3GEYJ 221 V (220 Ω)R4097030003800S.RESISTORERJ3GEYJ 221 V (220 Ω)R4017030003800S.RE	R392	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)				
R3957030003600S.RESISTORERJ3GEYJ 223 V (22 kΩ)R396703000320S.RESISTORERJ3GEYJ 101 V (100 Ω)R3977030003440S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3987030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R3997030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4007030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4017030003400S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4027030003400S.RESISTORERJ3GEYJ 212 V (220 Ω)R403703000320S.RESISTORERJ3GEYJ 211 V (200 Ω)R404703000320S.RESISTORERJ3GEYJ 101 V (100 Ω)R4057030003510S.RESISTORERJ3GEYJ 392 V (3.9 kΩ)R406703000360S.RESISTORERJ3GEYJ 212 V (220 Ω)R407703000360S.RESISTORERJ3GEYJ 212 V (220 Ω)R408703000360S.RESISTORERJ3GEYJ 221 V (220 Ω)R4087030003800S.RESISTORERJ3GEYJ 212 V (220 Ω)R4097030003800S.RESISTORERJ3GEYJ 212 V (220 Ω)R4097030003800S.RESISTORERJ3GEYJ 470 V (47 Ω)R4017030003800S.RESISTORERJ3GEYJ 470 V (47 Ω)R4017030003800S.RESISTORERJ3GEYJ 221 V (220 Ω)R4097030003800S.RESISTORERJ3GEYJ 470 V (47 Ω)R4097030003800S.RESISTORERJ3GEYJ 221 V (220 Ω)R4017030003800S.RESISTORERJ3GEYJ 221 V (220 Ω)R4097030003800 <td< td=""><td></td><td></td><td></td><td></td></td<>								
R3967030003320S.RESISTORERJ3GEYJ 101 V (100 Ω)R3977030003440S.RESISTORERJ3GEYJ 102 V (1 kΩ)R3987030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R3997030003520S.RESISTORERJ3GEYJ 472 V (4.7 kΩ)R4007030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4017030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4027030003400S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4037030003360S.RESISTORERJ3GEYJ 102 V (1 kΩ)R4047030003320S.RESISTORERJ3GEYJ 101 V (100 Ω)R4057030003320S.RESISTORERJ3GEYJ 101 V (100 Ω)R4047030003320S.RESISTORERJ3GEYJ 392 V (3.9 kΩ)R405703000360S.RESISTORERJ3GEYJ 122 V (220 Ω)R406703000360S.RESISTORERJ3GEYJ 221 V (220 Ω)R407703000360S.RESISTORERJ3GEYJ 21 V (220 Ω)R4087030003280S.RESISTORERJ3GEYJ 470 V (47 Ω)R4097030003800S.RESISTORERJ3GEYJ 105 V (1 MΩ)R411703000360S.RESISTORERJ3GEYJ 221 V (220 Ω)								
R397 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R398 7030003490 S.RESISTOR ERJ3GEYJ 272 V (2.7 kΩ) R399 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R400 7030003490 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R400 7030003490 S.RESISTOR ERJ3GEYJ 272 V (2.7 kΩ) R401 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R402 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R403 7030003360 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R404 7030003360 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R404 7030003320 S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ) R404 7030003510 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R404 703000360 S.RESISTOR ERJ3GEYJ 122 V (1.2 kΩ) R405 703000360 S.RESISTOR ERJ3GEYJ 122 V (220 Ω) R406 7030003280 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R408 7030003800 S.RESISTOR ERJ3GEYJ 470 V (47 Ω)	R396	1						
R3997030003520S.RESISTORERJ3GEYJ 472 V (4.7 kΩ)R4007030003490S.RESISTORERJ3GEYJ 272 V (2.7 kΩ)R4017030003440S.RESISTORERJ3GEYJ 102 V (1 kΩ)R4027030003360S.RESISTORERJ3GEYJ 221 V (220 Ω)R4037030003320S.RESISTORERJ3GEYJ 101 V (100 Ω)R4047030003320S.RESISTORERJ3GEYJ 101 V (100 Ω)R4057030003510S.RESISTORERJ3GEYJ 392 V (3.9 kΩ)R4067030003400S.RESISTORERJ3GEYJ 152 V (1.5 kΩ)R407703000360S.RESISTORERJ3GEYJ 21 V (220 Ω)R4087030003800S.RESISTORERJ3GEYJ 470 V (47 Ω)R4097030003800S.RESISTORERJ3GEYJ 105 V (1 MΩ)R411703000360S.RESISTORERJ3GEYJ 221 V (220 Ω)				ERJ3GEYJ 102 V (1 kΩ)				
R400 7030003490 S.RESISTOR ERJ3GEYJ 272 V (2.7 kΩ) R401 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R402 7030003400 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R403 7030003320 S.RESISTOR ERJ3GEYJ 21 V (220 Ω) R404 703000320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R405 7030003510 S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ) R406 703000360 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R406 7030003510 S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ) R406 703000360 S.RESISTOR ERJ3GEYJ 21 V (220 Ω) R407 703000380 S.RESISTOR ERJ3GEYJ 470 V (47 Ω) R408 7030003800 S.RESISTOR ERJ3GEYJ 470 V (47 Ω) R409 7030003800 S.RESISTOR ERJ3GEYJ 470 V (47 Ω) R401 7030003800 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R409 7030003800 S.RESISTOR ERJ3GEYJ 470 V (47 Ω) R401 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) </td <td></td> <td></td> <td></td> <td></td>								
R401 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R402 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R403 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R404 703000320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R405 7030003510 S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ) R406 7030003460 S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) R407 7030003860 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R408 7030003800 S.RESISTOR ERJ3GEYJ 470 V (47 Ω) R409 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 MΩ) R411 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω)								
R403 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R404 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R405 7030003320 S.RESISTOR ERJ3GEYJ 302 V (3.9 kΩ) R406 7030003460 S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) R407 703000360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R408 7030003280 S.RESISTOR ERJ3GEYJ 470 V (47 Ω) R409 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 MΩ) R411 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω)			S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)				
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R405 7030003510 S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ) R406 7030003460 S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ) R407 7030003460 S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) R407 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R408 7030003280 S.RESISTOR ERJ3GEYJ 470 V (47 Ω) R409 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 MΩ) R411 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω)								
R407 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R408 7030003280 S.RESISTOR ERJ3GEYJ 470 V (47 Ω) R409 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 MΩ) R411 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω)	R405	7030003510	S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)				
R408 7030003280 S.RESISTOR ERJ3GEYJ 470 V (47 Ω) R409 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 MΩ) R411 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω)								
R409 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 MΩ) R411 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω)								
	R409	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 ΜΩ)				
1112 / 00000200 0.ΠΕΟΙΟΤΟΜ ΕΠ/3GEYJ 180 V (18 Ω)		1						
	11412	,000000200	U.NEOIOTUM					

[RF UNIT]

REF NO.	ORDER NO.		DESCRIPTION
R413	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R415	7030003290	1	ERJ3GEYJ 560 V (56 Ω)
R416	7030003680		ERJ3GEYJ 104 V (100 kΩ)
R418 R420	7030003320		ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 124 V (120 kΩ)
R423	7030007220		ERA3YED 202V
R424	7030007220		ERA3YED 202V
R425 R426	7030007230	1	ERA3YED 102V ERA3YED 202V
R427	7030007230		ERASYED 102V
R428	7030007220		ERA3YED 202V
R429 R430	7030007230		ERA3YED 102V ERA3YED 202V
R431	7030007230		ERASYED 102V
R432	7030007220	1	ERA3YED 202V
R433 R434	7030007230	4	ERA3YED 102V ERA3YED 202V
R435	7030007230	1	ERASYED 102V
R436	7030007220	1	ERA3YED 202V
R437 R438	7030007210		ERA3YEB 102V ERA3YEB 202V
R439	7030007210	1	ERASYEB 102V
R440	7030007200	S.RESISTOR	ERA3YEB 202V
R441 R442	7030007210	S.RESISTOR	ERA3YEB 102V
R442 R449	7030007200	S.RESISTOR S.RESISTOR	ERA3YEB 202V ERJ3GEYJ 104 V (100 kΩ)
R450	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R451 R452	7030003360	S.RESISTOR S.RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 473 V (47 kΩ)
R453	7030003350	S.RESISTOR	ERJ3GEYJ 181 V (180 Ω)
R454	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R455	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
R456 R457	7030003380	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω) ERJ3GEYJ 152 V (1.5 kΩ)
R459	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R460	7030003490	S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)
R462 R463	7030003840	S.RESISTOR S.RESISTOR	ERJ3GEYJ 225 V (2.2 MΩ) ERJ3GEYJ 390 V (39 Ω)
R464	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R466	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R467 R468	7030005870	S.RESISTOR S.RESISTOR	RR0816R-104-D (100 kΩ) ERJ3GEYJ 273 V (27 kΩ)
R469	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
R470	7030003290	S.RESISTOR	ERJ3GEYJ 560 V (56 Ω)
R471 R473	7030003270	S.RESISTOR S.RESISTOR	ERJ3GEYJ 390 V (39 Ω) ERJ3GEYJ 151 V (150 Ω)
R474	7030003270	S.RESISTOR	ERJ3GEYJ 390 V (39 Ω)
R475 R476	7030003340 7030003340	S.RESISTOR S.RESISTOR	ERJ3GEYJ 151 V (150 Ω) ERJ3GEYJ 151 V (150 Ω)
R477	7030003270	S.RESISTOR	ERJ3GEYJ 390 V (39 Ω)
R478	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R479 R480	7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 563 V (56 kΩ)
R482	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R483	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R485 R486	7030003300 7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 680 V (68 Ω) ERJ3GEYJ 101 V (100 Ω)
R487	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R488	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R489 R490	7030003680 7030003380	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 331 V (330 Ω)
R491	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R494 R496	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R496 R497	7030003700 7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 154 V (150 kΩ) ERJ3GEYJ 471 V (470 Ω)
R498	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R501 R502	7030003320 7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R503	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 222 V (2.2 kΩ)
R504	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R505 R506	7030003400 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 104 V (100 kΩ)
R507	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R509	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R511 R512	7030003560 7030003370	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 271 V (270 Ω)
R513	7030003230	S.RESISTOR	ERJ3GEYJ 180 V (18 Ω)
R514	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)
R515	700000440		
R516 I	7030003440 7510000920	S.RESISTOR S.THERMISTOR	ERJ3GEYJ 102 V (1 kΩ) NTCCF2012 4CH 104KC-T
R516 R517 R518	7030003440 7510000920 7030003600 7030003560	S.RESISTOR S.RESISTOR S.RESISTOR	EHJ3GEYJ 102 V (1 KΩ) NTCCF2012 4CH 104KC-T ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 103 V (10 kΩ)

[RF UNIT]

REF	ORDER			REF	ORDER		DECODIDEION
NO.	NO.		DESCRIPTION	NO.	NO.		DESCRIPTION
R519	7030003610	S.RESISTOR	ERJ3GEYJ 273 V (27 kΩ)	C57	4030007090	S.CERAMIC	C1608 CH 1H 470J
R520	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	C59	4030006860	S.CERAMIC	C1608 JB 1H 102K
7521	7310004030	S.TRIMMER	EVM-1YSX50 B12 (101)	C60	4030006860	S.CERAMIC	C1608 JB 1H 102K
3523	7310004110	S.TRIMMER	EVM-1YSX50 B54 (503)	C61	4030009920	S.CERAMIC	C1608 CH 1H 050E
R524	7030004050	S.RESISTOR	ERJ3GEYJ 1R0 V (1 Ω)	C62	4030006860	S.CERAMIC	C1608 JB 1H 102K
3525	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)	C63	4030006860	S.CERAMIC	C1608 JB 1H 102K
3526	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)	C64	4030006860	S.CERAMIC	C1608 JB 1H 102K
3527	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)	C65	4030006860	S.CERAMIC	C1608 JB 1H 102K
7528	7030003290	S.RESISTOR	ERJ3GEYJ 560 V (56 Ω)	C66 C67	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K
3529	7030004050	S.RESISTOR	ERJ3GEYJ 1R0 V (1 Ω)	C67	4030006860	S.CERAMIC	C1608 JB 1H 472K C1608 JB 1H 102K
7530	7030004050	S.RESISTOR	ERJ3GEYJ 1R0 V (1 Ω)	C69	4030008860	S.CERAMIC	C1608 CH 1H 180J
7531 7532	7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	C70	4030007030	S.CERAMIC	C1608 CH 1H 150J
1532	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 101 V (100 Ω)	C70	4030009990	S.CERAMIC	C1608 CH 1H 1500
1555 7534	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	C72	4030006860	S.CERAMIC	C1608 JB 1H 102K
7535	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	C73	4030007100	S.CERAMIC	C1608 CH 1H 560J
1536	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	C74	4030007130	S.CERAMIC	C1608 CH 1H 101J
1530	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	C75	4030006860	S.CERAMIC	C1608 JB 1H 102K
1538	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	C79	4030006860	S.CERAMIC	C1608 JB 1H 102K
1539 1539	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	C80	4030006860	S.CERAMIC	C1608 JB 1H 102K
3540	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	C81	4030006860	S.CERAMIC	C1608 JB 1H 102K
340	7510000900	S.THERMISTOR	NTCCF2012 3SH 223KC-T	C82	4030006850	S.CERAMIC	C1608 JB 1H 471K
3542	7510000900	S.THERMISTOR	NTCCF2012 3SH 223KC-T	C83	4030006860	S.CERAMIC	C1608 JB 1H 102K
3543	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	C84	4030006860	S.CERAMIC	C1608 JB 1H 102K
3544	7030004050	S.RESISTOR	ERJ3GEYJ 1R0 V (1 Ω)	C85	4030009530	S.CERAMIC	C1608 CH 1H 030E
3545	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	C86	4030006860	S.CERAMIC	C1608 JB 1H 102K
3546	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)	C87	4030006860		C1608 JB 1H 102K
				C88	4030006860	S.CERAMIC	C1608 JB 1H 102K
				C89	4030006860	S.CERAMIC	C1608 JB 1H 102K
21	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C90	4030011600	S.CERAMIC	C1608 JB 1C 104K
22	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C91	4030006860	S.CERAMIC	C1608 JB 1H 102K
23	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	C92	4030008750		C1608 CH 1H 360J
24	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	C93	4030006860	S.CERAMIC	C1608 JB 1H 102K
26	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	C94	4030007040	S.CERAMIC	C1608 CH 1H 180J
27	4030009990	S.CERAMIC	C1608 CH 1H 200J-T-A	C97	4030006860	S.CERAMIC	C1608 JB 1H 102K
28	4030006990	S.CERAMIC	C1608 CH 1H 080D-T-A	C98	4030006860	S.CERAMIC	C1608 JB 1H 102K
29	4030008560	S.CERAMIC	C1608 CH 1H 300J-T-A	C99	4030006860	S.CERAMIC	C1608 JB 1H 102K
C10	4030007130	S.CERAMIC	C1608 CH 1H 101J-T-A	C100	4030006850	S.CERAMIC	C1608 JB 1H 471K
211	4030007100	S.CERAMIC	C1608 CH 1H 560J-T-A	C101	4030006860	S.CERAMIC	C1608 JB 1H 102K
C13	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C102	4030006860	S.CERAMIC	C1608 JB 1H 102K
C14	4030011280	S.CERAMIC	C1608 CH 1H 271J-T-A	C103	4030009530	S.CERAMIC	C1608 CH 1H 030E
C15	4030009980	S.CERAMIC	C1608 JB 1H 152K-T-A	C104	4030006860	S.CERAMIC	C1608 JB 1H 102K
C16	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	C106	4030006860	S.CERAMIC	C1608 JB 1H 102K
C17	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C107		S.CERAMIC	C1608 JB 1H 102K
C18	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C108	4030011600	S.CERAMIC	C1608 JB 1C 104K
C19	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C109	4030006860	S.CERAMIC	C1608 JB 1H 102K
C20	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C110	4030009990	S.CERAMIC	C1608 CH 1H 200J
C21	4030007120	S.CERAMIC	C1608 CH 1H 820J-T-A	C113	4030006860	S.CERAMIC	C1608 JB 1H 102K
222	4030007060	S.CERAMIC	C1608 CH 1H 270J-T-A	C114	4030006860		. C1608 JB 1H 102K
223	4030007150	S.CERAMIC	C1608 CH 1H 151J-T-A	C115	4030006860	S.CERAMIC	C1608 JB 1H 102K
C24	4030010760	S.CERAMIC	C1608 CH 1H 331J-T-A	C116	4030006850	S.CERAMIC	C1608 JB 1H 471K
225	4030007160	S.CERAMIC	C1608 CH 1H 181J-T-A	C117	4030006850	S.CERAMIC	C1608 JB 1H 471K
226	4030008650	S.CERAMIC	C1608 JB 1H 332K-T-A	C118	4030006850	S.CERAMIC	C1608 JB 1H 471K
227	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	C119	4030006860	S.CERAMIC	C1608 JB 1H 102K
228	4030006870	S.CERAMIC	C1608 JB 1H 222K-T-A	C120	4030006860	S.CERAMIC	C1608 JB 1H 102K
229	4030008470	S.CERAMIC	C1608 JB 1H 272K-T-A	C121	4030011770	S.CERAMIC	C1608 CH 1H 060E
C30	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	C123	4030006860	S.CERAMIC	C1608 JB 1H 102K
231	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C125	4030006860	S.CERAMIC	C1608 JB 1H 102K
32	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C126	4030011600 4030011600		C1608 JB 1C 104K C1608 JB 1C 104K
33 34	4030007080	S.CERAMIC S.CERAMIC	C1608 CH 1H 390J-T-A C1608 CH 1H 120J-T-A	C127 C128	4030011600		C1608 JB 1H 102K
)34)35	4030007020	S.CERAMIC	C1608 CH 1H 390J-T-A	C128	4030006860	S.CERAMIC	C1608 JB 1C 104K
,35 ,36	4030007080	S.CERAMIC	C1608 CH 1H 151J-T-A	C129	4030006860	S.CERAMIC	C1608 JB 1H 102K
,30 ,37	4030007150	S.CERAMIC	C1608 CH 1H 820J-T-A	C130	4030007130	S.CERAMIC	C1608 CH 1H 101J
,37 ;38	4030007120	S.CERAMIC	C1608 CH 1H 221J-T-A	C131	4030006860	S.CERAMIC	C1608 JB 1H 102K
,38 ,39	4030007160	S.CERAMIC	C1608 CH 1H 181J-T-A	C132	4030011600		C1608 JB 1C 104K
,39 ,40	4030007160	S.CERAMIC	C1608 JB 1H 102K-T-A	C133	4030006860	S.CERAMIC	C1608 JB 1H 102K
240 241	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	C135	4030006850	S.CERAMIC	C1608 JB 1H 471K
.42	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	C136	4030006860	S.CERAMIC	C1608 JB 1H 102K
,42 ,43	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C137	4030011600	S.CERAMIC	C1608 JB 1C 104K
244	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	C138	4030008560		C1608 CH 1H 300J
245	4030007170	S.CERAMIC	C1608 CH 1H 221J-T-A	C139	4030011810	S.CERAMIC	C1608 JB 1A 224K
246	4030007110	S.CERAMIC	C1608 CH 1H 680J-T-A	C140	4030011770		C1608 CH 1H 060E
247	4030007140	S.CERAMIC	C1608 CH 1H 121J-T-A	C141	4030009920		C1608 CH 1H 050E
248	4030009980	S.CERAMIC	C1608 JB 1H 152K-T-A	C142	4030006860		C1608 JB 1H 102K
249	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A	C143	4030006860		C1608 JB 1H 102K
250	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	C145	4030006860	S.CERAMIC	C1608 JB 1H 102K
251	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C146	4030011600	S.CERAMIC	C1608 JB 1C 104K
252	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	C148	4030006860	S.CERAMIC	C1608 JB 1H 102K
253	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	C149	4030006860	S.CERAMIC	C1608 JB 1H 102K
	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A	C150	4030007050	S.CERAMIC	C1608 CH 1H 220J
254	4000007000						

REF	ORDER		
NO.	NO.	C	DESCRIPTION
C152	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C153	4550006700	S.TANTALUM	ECST1AY106R
C154 C155	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C157	4030009520	S.CERAMIC	C1608 CH 1H 020B-T-A
C158	4030009560	S.CERAMIC	C1608 CH 1H R75B-T-A
C159 C160	4030009520 4030009530	S.CERAMIC S.CERAMIC	C1608 CH 1H 020B-T-A C1608 CH 1H 030B-T-A
C160	4030009550	S.CERAMIC	C1608 CH 1H 2R5B-T-A
C162	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C163 C164	4030007030	S.CERAMIC S.CERAMIC	C1608 CH 1H 150J-T-A C1608 CH 1H 150J-T-A
C164	4030009540	S.CERAMIC	C1608 CH 1H 1R5B-T-A
C167	4030009510	S.CERAMIC	C1608 CH 1H 010B-T-A
C168	4030009910	S.CERAMIC S.CERAMIC	C1608 CH 1H 040B-T-A C1608 CH 1H 100D-T-A
C169 C170	4030007010 4030006980	S.CERAMIC	C1608 CH 1H 070D-T-A
C171	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C172	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C173 C174	4030011600 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1C 104KT-N C1608 JB 1H 102K-T-A
C175	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C176	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C177 C178	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C179	4030007010	S.CERAMIC	C1608 CH 1H 100D-T-A
C180	4030009510	S.CERAMIC	C1608 CH 1H 010B-T-A
C181 C182	4030007010 4030009920	S.CERAMIC S.CERAMIC	C1608 CH 1H 100D-T-A C1608 CH 1H 050B-T-A
C183	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C185	4030009500	S.CERAMIC	C1608 CH 1H 0R5B-T-A
C186 C187	4030007090 4030011600	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T-A C1608 JB 1C 104KT-N
C188	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C189	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C190 C191	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C192	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C193	4510006260	S.ELECTROLYTIC	ECEV1AA471UP
C194 C195	4030007010 4030009500	S.CERAMIC S.CERAMIC	C1608 CH 1H 100D-T-A C1608 CH 1H 0R5B-T-A
C195	4030009530	S.CERAMIC	C1608 CH 1H 030B-T-A
C197	4030009530	S.CERAMIC	C1608 CH 1H 030B-T-A
C198 C199	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 CH 1H 470J-T-A
C200	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C201	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C203 C204	4030009500	S.CERAMIC S.CERAMIC	C1608 CH 1H 0R5B-T-A C1608 JB 1H 102K-T-A
C204	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C206	4030007050	S.CERAMIC	C1608 CH 1H 220J-T-A
C207	4030006900 4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A C1608 JB 1E 103K-T-A
C208 C209	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
C210	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C211 C212	4030012600	S.CERAMIC S.CERAMIC	C2012 JB 1A 105M-T-A C2012 JB 1A 105M-T-A
C212	4030012000	S.CERAMIC	C1608 JB 1C 104KT-N
C214	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C215 C216	4030006860 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 472K-T-A
C210	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C218	4510004630	S.ELECTROLYTIC	ECEV1CA100SR
C219 C220	4030007050	S.CERAMIC S.CERAMIC	C1608 CH 1H 220J-T-A C1608 CH 1H 220J-T-A
C221	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C222	4030007010	S.CERAMIC	C1608 CH 1H 100D-T-A
C223 C224	4030011600 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1C 104KT-N C1608 JB 1H 102K-T-A
C224	4030006860	S.ELECTROLYTIC	ECEV1VA330UP
C226	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C227 C228	4510006210	S.ELECTROLYTIC S.CERAMIC	ECEV1VA330UP C1608 JB 1H 472K-T-A
C228	4030006880	S.TANTALUM	ECST1VY224R
C230	4550006130	S.TANTALUM	ECST1VY224R
C231 C232	4550006810 4030006860	S.TANTALUM S.CERAMIC	ECST1VY473R C1608 JB 1H 102K-T-A
C232	4030006980	S.CERAMIC	C1608 CH 1H 070D-T-A
C234	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C235 C236	4030006860 4030009920	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 CH 1H 050B-T-A
C238	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
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REF NO.	ORDER NO.		ESCRIPTION
C239	4030007050	S.CERAMIC	C1608 CH 1H 220J-T-A
C240	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
C241	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
C242 C243	4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A C1608 JB 1E 103K-T-A
C243 C244	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
C249	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
C253	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C254	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C255 C256	4030012600	S.CERAMIC S.CERAMIC	C2012 JB 1A 105M-T-A C1608 JB 1C 104KT-N
C257	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C260	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
C261	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
C262 C263	4030009990	S.CERAMIC S.CERAMIC	C1608 CH 1H 200J-T-A C1608 CH 1H 120J-T-A
C264	4030008560	S.CERAMIC	C1608 CH 1H 300J-T-A
C265	4030009920	S.CERAMIC	C1608 CH 1H 050B-T-A
C266	4030007040	S.CERAMIC	C1608 CH 1H 180J-T-A
C267 C268	4030006980	S.CERAMIC S.CERAMIC	C1608 CH 1H 070D-T-A C1608 JB 1C 104KT-N
C268	4030011000	S.CERAMIC	C1608 CH 1H 271J-T-A
C270	4030011330	S.CERAMIC	C1608 CH 1H 391J-T-A
C271	4030009980	S.CERAMIC	C1608 JB 1H 152K-T-A
C272 C273	4030007110	S.CERAMIC	C1608 CH 1H 680J-T-A C1608 CH 1H 391J-T-A
C273	4030011330	S.CERAMIC S.CERAMIC	C1608 CH 1H 331J-T-A
C275	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C277	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C278	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C279 C280	4030012600 4030006880	S.CERAMIC S.CERAMIC	C2012 JB 1A 105M-T-A C1608 JB 1H 472K-T-A
C280	4510005870	S.ELECTROLYTIC	ECEV1HA3R3SR
C285	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C286	4030011810	S.CERAMIC	C1608 JB 1A 224K-T-N
C287 C288	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 CH 1H 680J-T-A
C289	4030007170	S.CERAMIC	C1608 CH 1H 221J-T-A
C290	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A
C291	4030007140	S.CERAMIC	C1608 CH 1H 121J-T-A
C292	4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A C1608 CH 1H 020B-T-A
C293 C294	4030009520	S.ELECTROLYTIC	ECEV1EA4R7SR
C295	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C296	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C297 C298	4510004630	S.ELECTROLYTIC	ECEV1CA100SR C1608 JB 1E 103K-T-A
C298 C299	4030006900	S.CERAMIC	C1608 JB 1H 472K-T-A
C300	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
C301	4030007110	S.CERAMIC	C1608 CH 1H 680J-T-A
C302 C303	4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A C1608 JB 1E 103K-T-A
C304	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
C305	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
C306	4030009520	S.CERAMIC	C1608 CH 1H 020B-T-A
C308 C309	4030006900 4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A C1608 JB 1E 103K-T-A
C309	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C311	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C312	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N C1608 JB 1C 104KT-N
C313 C314	4030011600	S.CERAMIC S.CERAMIC	C1608 JB 1C 104KT-N
C315	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C316	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C317	4030011330	S.CERAMIC	C1608 CH 1H 391J-T-A C1608 JB 1C 104KT-N
C318 C319	4030011600 4030011600	S.CERAMIC S.CERAMIC	C1608 JB 1C 104KT-N
C320	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C321	4030007040	S.CERAMIC	C1608 CH 1H 180J-T-A
C322 C323	4030007070 4030007070	S.CERAMIC S.CERAMIC	C1608 CH 1H 330J-T-A C1608 CH 1H 330J-T-A
C323	4030007070	S.CERAMIC	C1608 CH 1H 151J-T-A
C325	4030007170	S.CERAMIC	C1608 CH 1H 221J-T-A
C326	4030007170	S.CERAMIC	C1608 CH 1H 221J-T-A
C327 C328	4030011340 4030011600	S.CERAMIC S.CERAMIC	C1608 CH 1H 471J-T-A C1608 JB 1C 104KT-N
C328	4030011600	S.ELECTROLYTIC	ECEV1CA101UP
C330	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N
C331	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
C332 C333	4030009530 4030011600	S.CERAMIC S.CERAMIC	C1608 CH 1H 030B-T-A C1608 JB 1C 104KT-N
C334	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
L	1	L	

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REF NO.	ORDER NO.	D	ESCRIPTION	REF NO.	ORDER NO.	ſ	
C335	4030007130	S.CERAMIC	C1608 CH 1H 101J-T-A	C512	4030011600	S.CERAMIC	
336	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	C514	4030011600	S.CERAMIC	
37	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	C516	4030012600	S.CERAMIC	
4	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	C517	4030006860	S.CERAMIC	
l	4030008880	S.CERAMIC	C1608 JB 1C 223K-T-A	C518	4030007050	S.CERAMIC	
	4030008880	S.CERAMIC	C1608 JB 1C 223K-T-A	C519	4030006900	S.CERAMIC	
	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C520	4030006900	S.CERAMIC	
	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	C521	4030006860	S.CERAMIC	
	4510004630	S.ELECTROLYTIC	ECEV1CA100SR	C522	4030006900	S.CERAMIC	
	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	C523	4030006860	S.CERAMIC	
	4510004630 4030011600	S.ELECTROLYTIC	ECEV1CA100SR	C524 C525	4510006210	S.ELECTROLYTIC	
	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N C1608 JB 1C 104KT-N	C525	4030006860	S.CERAMIC S.ELECTROLYTIC	
	4030011310	S.CERAMIC	C2012 JB 1A 564K-T-A	C527	4030006880	S.CERAMIC	
	4030006870	S.CERAMIC	C1608 JB 1H 222K-T-A	C528	4550006460	S.TANTALUM	
;	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C529	4550006460	S.TANTALUM	
7	4030008770	S.CERAMIC	C1608 JB 1H 562K-T-A	C531	4030006860	S.CERAMIC	
3	4510004650	S.ELECTROLYTIC	ECEV1EA4R7SR	C532	4030007050	S.CERAMIC	
9	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C533	4030007010	S.CERAMIC	
0	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	C534	4030006980	S.CERAMIC	
2	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C535	4030006860	S.CERAMIC	
3	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C536	4510006220	S.ELECTROLYTIC	
55	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C537	4030011600	S.CERAMIC	
6	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A	C538	4030006860	S.CERAMIC	
67 1	4030011600 4030011810	S.CERAMIC	C1608 JB 1C 104KT-N	C539	4030011600	S.CERAMIC	
1 2	4030011810	S.CERAMIC S.ELECTROLYTIC	C1608 JB 1A 224K-T-N ECEV1HA3R3SR	C540 C541	4030009510 4030006860	S.CERAMIC S.CERAMIC	
23	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	C541	4030007050	S.CERAMIC	
3 '4	4030006900	S.CERAMIC	C1608 JB 1H 472K-T-A	C542	4030007050	S.CERAMIC	
75	4030007170	S.CERAMIC	C1608 CH 1H 221J-T-A	C544	4030011600	S.CERAMIC	
7	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C545	4030006900	S.CERAMIC	
8	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	C546	4030011600	S.CERAMIC	
9	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	C547	4030006880	S.CERAMIC	
0	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C548	4030006860	S.CERAMIC	
1 2	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C549	4030006860	S.CERAMIC	
	4030011600 4030012610	S.CERAMIC S.CERAMIC	C1608 JB 1C 104KT-N C2012 JB 1C 474K-T-A	C550 C551	4030006860 4030009910	S.CERAMIC S.CERAMIC	
	4030012610	S.CERAMIC	C1608 JB 1C 104KT-N	C553	4030007010	S.CERAMIC	
	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C554	4030007030	S.CERAMIC	
	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C556	4030006880	S.CERAMIC	
	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C557	4030007150	S.CERAMIC	
	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	C558	4030007120	S.CERAMIC	
	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	C559	4030011280	S.CERAMIC	
	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C560	4030007140	S.CERAMIC	
	4030011810 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1A 224K-T-N C1608 JB 1H 102K-T-A	C561 C562	4030012600 4030006860	S.CERAMIC S.CERAMIC	
	4510004630	S.ELECTROLYTIC	ECEV1CA100SR	C564	4030011600	S.CERAMIC	
-	4030007110	S.CERAMIC	C1608 CH 1H 680J-T-A	C565	4030011600	S.CERAMIC	
3	4030012610	S.CERAMIC	C2012 JB 1C 474K-T-A	C567	4030006860	S.CERAMIC	
28	4530000400	S.ARRAY	EZANCE 220M 22P	C568	4030011600	S.CERAMIC	
9	4530000400	S.ARRAY	EZANCE 220M 22P	C569	4550006700	S.TANTALUM	
0	4530000400	S.ARRAY	EZANCE 220M 22P	C572	4030011600	S.CERAMIC	
1	4530000400	S.ARRAY	EZANCE 220M 22P	C583	4030006860	S.CERAMIC	
3	4530000410	S.ARRAY	EZANCE 471M 470P	C584 C586	4030011600	S.CERAMIC S.CERAMIC	
14 15	4530000420 4530000400	S.ARRAY S.ARRAY	NFA41R10C104 EZANCE 220M 22P	C586 C592	4030011600 4030011600	S.CERAMIC	
6	4530000400	S.ARRAY	NFA41R10C104	C593	4030006880	S.CERAMIC	
0	4550006700	S.TANTALUM	ECST1AY106R	C594	4030011600	S.CERAMIC	
1	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	C595	4030006900	S.CERAMIC	
5	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C597	4030007070	S.CERAMIC	
3	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C600	4030006860	S.CERAMIC	
	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C601	4030006860	S.CERAMIC	
3	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C602	4030009910	S.CERAMIC	
4 6	4030011600 4030011600	S.CERAMIC S.CERAMIC	C1608 JB 1C 104KT-N C1608 JB 1C 104KT-N	C603 C604	4510004630 4030011600	S.ELECTROLYTIC S.CERAMIC	
3	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C604 C605	40300011800	S.CERAMIC	
)	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C606	4030007040	S.CERAMIC	
2	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C607	4030011600	S.CERAMIC	
1	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C609	4030006860	S.CERAMIC	
6	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A	C610	4030007010	S.CERAMIC	
17	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A	C611	4030006860	S.CERAMIC	
8	4030007020	S.CERAMIC	C1608 CH 1H 120J-T-A	C612	4030006860	S.CERAMIC	
99	4030009920	S.CERAMIC	C1608 CH 1H 050B-T-A	C613	4030006880	S.CERAMIC	
)0.)1	4030007170 4030007100	S.CERAMIC S.CERAMIC	C1608 CH 1H 221J-T-A C1608 CH 1H 560J-T-A	C616 C617	4030006900 4030006860	S.CERAMIC S.CERAMIC	
2	4030007100	S.CERAMIC	C1608 CH 1H 560J-T-A C1608 CH 1H 680J-T-A	C617 C618	4030006860	S.CERAMIC	
	4030007100	S.CERAMIC	C1608 CH 1H 560J-T-A	C621	4030006880	S.CERAMIC	
1	4030007050	S.CERAMIC	C1608 CH 1H 220J-T-A	C622	4030008920	S.CERAMIC	
	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	C623	4030006860	S.CERAMIC	
•							
	4030011600	S.CERAMIC	C1608 JB 1C 104KT-N	C624	4030011600	S.CERAMIC	
4 5 6 8			C1608 JB 1C 104KT-N C1608 JB 1C 104KT-N C1608 JB 1C 104KT-N	C624 C625 C626	4030011600 4030006860 4030006860	S.CERAMIC S.CERAMIC S.CERAMIC	

[RF UNIT]

DESCRIPTION

C1608 JB 1C 104KT-N

C1608 JB 1C 104KT-N

C2012 JB 1A 105M-T-A

C1608 JB 1H 102K-T-A

C1608 CH 1H 220J-T-A C1608 JB 1E 103K-T-A

C1608 JB 1E 103K-T-A

C1608 JB 1H 102K-T-A

C1608 JB 1E 103K-T-A

C1608 JB 1H 102K-T-A

C1608 JB 1H 102K-T-A

C1608 CH 1H 220J-T-A

C1608 CH 1H 100D-T-A

C1608 CH 1H 070D-T-A

C1608 JB 1H 102K-T-A

C1608 JB 1C 104KT-N

C1608 JB 1H 102K-T-A

C1608 JB 1C 104KT-N

C1608 CH 1H 010B-T-A

C1608 JB 1H 102K-T-A

C1608 CH 1H 220J-T-A

C1608 JB 1H 102K-T-A

C1608 JB 1C 104KT-N

C1608 JB 1E 103K-T-A

C1608 JB 1C 104KT-N

C1608 JB 1H 472K-T-A

C1608 JB 1H 102K-T-A

C1608 JB 1H 102K-T-A

C1608 JB 1H 102K-T-A

C1608 CH 1H 040B-T-A C1608 CH 1H 100D-T-A

C1608 CH 1H 150J-T-A

C1608 JB 1H 472K-T-A

C1608 CH 1H 151J-T-A

C1608 CH 1H 820J-T-A

C1608 CH 1H 271J-T-A

C1608 CH 1H 121J-T-A

C2012 JB 1A 105M-T-A

C1608 JB 1H 102K-T-A

C1608 JB 1C 104KT-N

C1608 JB 1C 104KT-N C1608 JB 1H 102K-T-A C1608 JB 1C 104KT-N

C1608 JB 1H 102K-T-A C1608 JB 1C 104KT-N

C1608 JB 1C 104KT-N

C1608 JB 1C 104KT-N

C1608 JB 1H 472K-T-A

C1608 JB 1C 104KT-N

C1608 JB 1E 103K-T-A C1608 CH 1H 330J-T-A

C1608 JB 1H 102K-T-A

C1608 JB 1H 102K-T-A C1608 CH 1H 040B-T-A

C1608 JB 1H 102K-T-A

C1608 CH 1H 180J-T-A C1608 JB 1C 104KT-N

C1608 JB 1H 102K-T-A

C1608 CH 1H 100D-T-A

C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A

C1608 JB 1H 472K-T-A

C1608 JB 1E 103K-T-A

C1608 JB 1H 102K-T-A

C1608 CH 1H 470J-T-A

C1608 JB 1H 472K-T-A

C1608 JB 1C 473K-T-A

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ECST1AY106R C1608 JB 1C 104KT-N

ECEV1CA101UP

ECEV1VA330UP C1608 JB 1H 102K-T-A

ECEV1VA330UP C1608 JB 1H 472K-T-A

ECST1VX225R

ECST1VX225R

C1608 JB 1H 102K-T-A C1608 JB 1C 104KT-N C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A

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RE NO				DE	SCRIPTION		
C62			S.CERAMIC		C1608 CH 1	H 220.J-T-A	
C62			S.CERAMIC		C1608 CH 1		
C63	30 403000	07080	S.CERAMIC		C1608 CH 1		
C63			S.CERAMIC S.CERAMIC		C1608 CH 1 C1608 JB 1H		
C63			S.CERAMIC		C1608 JB 1F C1608 JB 10		
C63			S.CERAMIC		C1608 CH 1	H 181J-T-A	
C63	35 40300	06860	S.CERAMIC		C1608 JB 1H	102K-T-A	
C63			S.CERAMIC S.CERAMIC		C1608 CH 1 C1608 JB 1H		
C63			S.CERAMIC		C1608 JB 1F		
C64		-	S.CERAMIC		C1608 JB 1E	E 103K-T-A	
C64			S.CERAMIC		C1608 JB 18		
			S.CERAMIC S.CERAMIC		C1608 JB 1H C1608 JB 1H		
C64			S.CERAMIC		C1608 JB 1H	H 102K-T-A	
C64	45 40300	06860	S.CERAMIC		C1608 JB 1H	H 102K-T-A	
C64			S.CERAMIC		C1608 CH 1		
C64			S.CERAMIC S.CERAMIC		C1608 JB 10 C1608 JB 10		
C64			S.CERAMIC		C1608 CH 1	H 271J-T-A	
C65	50 40300	11600	S.CERAMIC		C1608 JB 10	C 104KT-N	
C65			S.CERAMIC		C1608 CH 1		
C6			S.CERAMIC S.CERAMIC		C1608 CH 1 C1608 JB 1E		
C6			S.TANTALUM		ECST1AY10		
C65	55 40300	09920	S.CERAMIC		C1608 CH 1	H 050B-T-A	
C65	56 40300	-	S.CERAMIC		C1608 JB 1		
C65	-		S.CERAMIC S.CERAMIC		C1608 CH 1 C1608 JB 1		
C69	-		S.CERAMIC		C1608 JB 11		
C66	61 40300	11600	S.CERAMIC		C1608 JB 10	C 104KT-N	
C66	63 40300		S.CERAMIC		C1608 JB 10		
C60			S.CERAMIC		C1608 JB 10 ECST1VY47		
C6	1		S.CERAMIC		C1608 CH 1		
C6	69 40300	07010	S.CERAMIC		C1608 CH 1	H 100D-T-A	
C6			S.CERAMIC		C1608 CH 1		
C61	•	07010 07010	S.CERAMIC		C1608 CH 1 C1608 CH 1		
C6			S.CERAMIC		C1608 CH 1		
C63	74 40300	07010	S.CERAMIC		C1608 CH 1	H 100D-T-A	
C6			S.CERAMIC		C1608 JB 11		
C6	1		S.CERAMIC S.CERAMIC		C1608 JB 11 C1608 CH 1		
C6			S.CERAMIC		C1608 JB 1		
C6	79 40300	06860	S.CERAMIC		C1608 JB 1	H 102K-T-A	
C6		10760	S.CERAMIC		C1608 CH 1 C1608 CH 1		
C6	81 40300 82 40300	09510 07070	S.CERAMIC S.CERAMIC		C1608 CH 1 C1608 CH 1		
C6	83 40300	06860	S.CERAMIC		C1608 JB 1	H 102K-T-A	
C6	84 40300	06850	S.CERAMIC		C1608 JB 11	H 471K-T-A	
C6		06850	S.CERAMIC		C1608 JB 11 C1608 JB 11		
C6		06850 07010	S.CERAMIC S.CERAMIC		C1608 JB 11 C1608 CH 1		
C6		07010	S.CERAMIC		C1608 CH 1		
J1	65100	20530	S.CONNECTO	R	52808-1890		
J1 J2		20530	S.CONNECTO		52808-1890		
J5		06360	CONNECTOR		TMP-J02X-A		
w2	70300	03860	S.JUMPER		ERJ3GE JP	wv	
W3	3 70300	03860	S.JUMPER		ERJ3GE JP	WV	
W4		03860	S.JUMPER		ERJ3GE JP		
W5 W6		03860	S.JUMPER		ERJ3GE JP ERJ3GE JP		
W7		03860	S.JUMPER		ERJ3GE JP		
EP	1 09100	49015	РСВ		B 5015E		
1							
	1						

SECTION 7 MECHANICAL PARTS AND DISASSEMBLY

7-1 CABINET PARTS

[LOGIC UNIT]

REF NO.	ORDER NO.	DESCRIPTION	ΩΤΥ.
MP 1	8930044920	2032 Coil cover	1
MP 2	8930014140	Grounding spring (D)	1
MP 3	8950004610	S-5 (Wiresticker)	1

[RF UNIT]

REF NO.	ORDER NO.	DESCRIPTION	ατγ.
MP 1	8510007950	1312 VCO case	1
MP 2	8510010850	1897 D/A case	2
MP 3	8510004280	VCO case (A)	1
MP 4	8510011160	1897 PLL shield case	1
MP 5	8930043100	Sponge (EU)	2
MP 6	8930014140	Grounding spring (D)	1
MP 7	8510010460	1691 Main shield plate	3
MP 8	8930024170	Grounding spring (G)	1
MP 9	8930027730	Sponge (DC)	1

[CHASSIS]

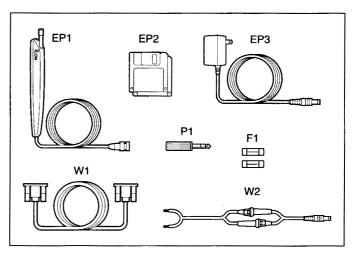
REF (NO.		ORDER NO.	DESCRIPTION	
J	1	6510015550	Connector BNC-R117 (incl. nut)	1
s	1	2260002400	Switch DS850K-S-LG	1
w	7	8900007640	OPC-740 cable	1
W	8	8900007640	OPC-740 cable	1
MP	1	8110006250	2032 Cover	1
MP	2	8510011390	2032 Case	1
MP	3	8510011370	2032 Shield cover	1
MP	6	8930039620	Leg cushion (A)	4
MP	7	8930009630	SP net	1
MP	8	8930044120	Sponge (FI)	1
MP	9	8810008960	Screw FH M2.6×5 ZK	8
MP	10	8810008630	Screw FH BT M3×6 NI-ZU	7
MP	11	8810008680	Screw PH M3×8 NI 5	
MP12 8850001560		8850001560	Star washer M4	1
MP13 8850000140 Flat		8850000140	Flat washer M4 NI BS	1
MP14 8820000530		8820000530	Hexagon bolt M4 × 8 NI	1
MP15 8930044790 Sheet BR		8930044790	Sheet BR	1
MP16 8930044780 2032		8930044780	2032 Sponge	1
MP18 8930015640		8930015640	Code holder	1
MP19 8930043100		8930043100	Sponge (EU)	1
MP2	20	8930018570	Cushion sheet (D)	1
MP2	22	8930045500	2032 SHIELD PLATE	2
SP	1	2510001020	Speaker SV-36W0843	1
ws	1	8600036000	Code P01CH	
WS 2 8600036010		8600036010	Code P02CH	1

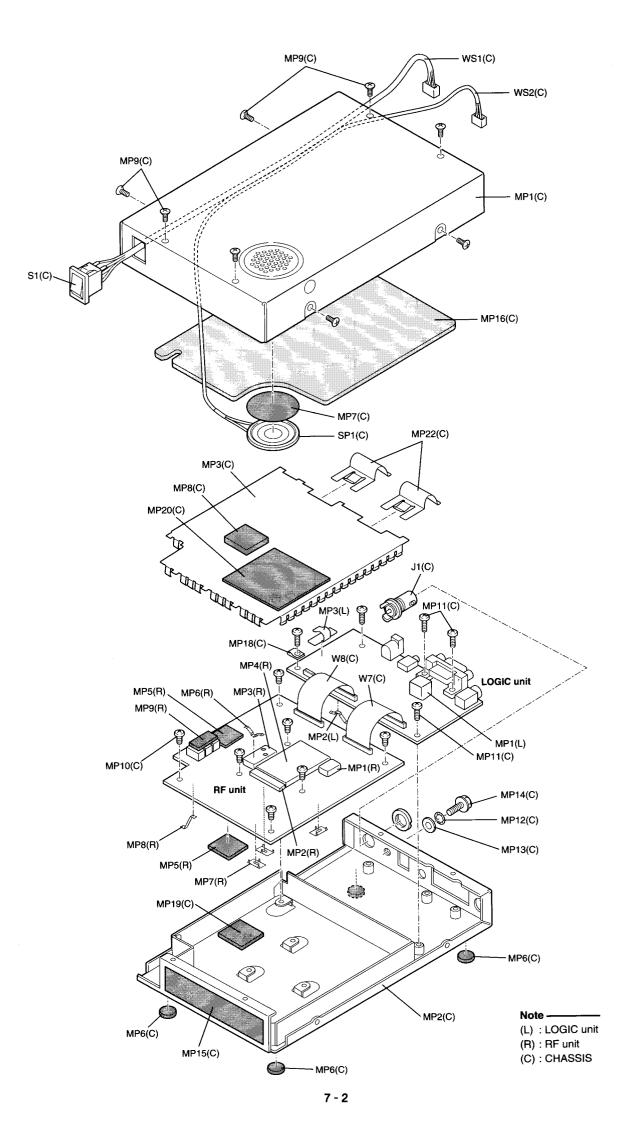
Screw abbreviations: PH: Pan head FH: Flat head

NI: Nickel ZK: Black

7-2 ACCESSORIES

REF NO.	ORDER NO.	DESCRIPTION	ατγ.
F1	5210000040	Fuse FGB 2A (EUR)	2
P1	5610000020	Connector AP313 3.5¢ CS plug	1
W1	8900007650	RS-232C cable OPC-743	1
W2	8900001410	DC cable OPC-131 [EUR]	1
EP1	3310001920	2032 Antenna	1
EP2		3.5" FD 40MF2HDGEDV	1set
EP3	Optional product	AC adaptor BC-123A/BM-104A [USA]	1
		AC adaptor BC-123E/BM-104E [OTH]	1





SECTION 8 SEMI-CONDUCTOR INFORMATION

8-1 TRANSISTORS AND FET'S

NAME	SYMBOL	INSIDE VIEW
2SA1622-6-TL	M6	
2SB1123T-TD	BF	
2SC4117-BL 2SC4211-6 2SC4835-R 2SC5193-T1	CL L6 3M T88	
2SK2171-4-TD	КМ	G G G G G G G G G G G G G G G G G G G
2SK880-Y 2SK882-GR	XY TG	
3SK131-T2 3SK228XR	V12 XR	

NAME	SYMBOL	INSIDE VIEW
DTA114EU	26	
DTA144EU	16	
XP1114	7Q	
XP1213	9L	
XP4311	7X	
XP4601	5C	

8-2 DIODES

NAME	SYMBOL	INSIDE VIEW
1SR154-400 1SS355 1SV307 DAN222TL	14 A TX N-4	а с тал а к
1SS272 1SV237	A1 BB	
1SS375-TL	FH	
1SV214 1SV230 1SV288	T1 T7 TJ	pink ∧ ⊏[→I

NAME	SYMBOL	INSIDE VIEW
1SV217	T6	∧⊂ ⊨i⊦
MA77	4B	α □ 11 □ − − − − − − − − − − − − − − − − − − −
MA8051-M	5-1	
MA862	M1L	K2 K1

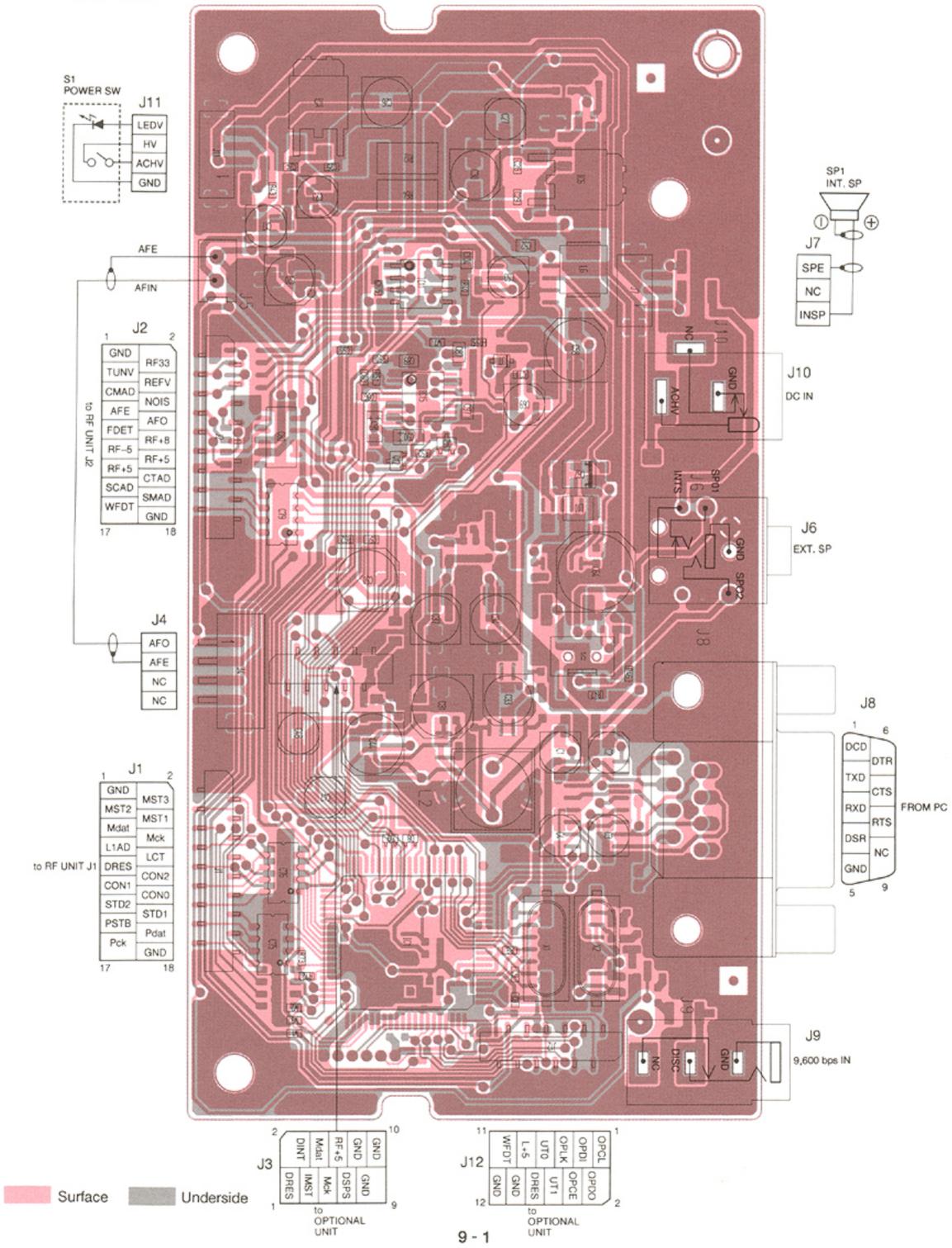
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SECTION 9 BOARD LAYOUTS

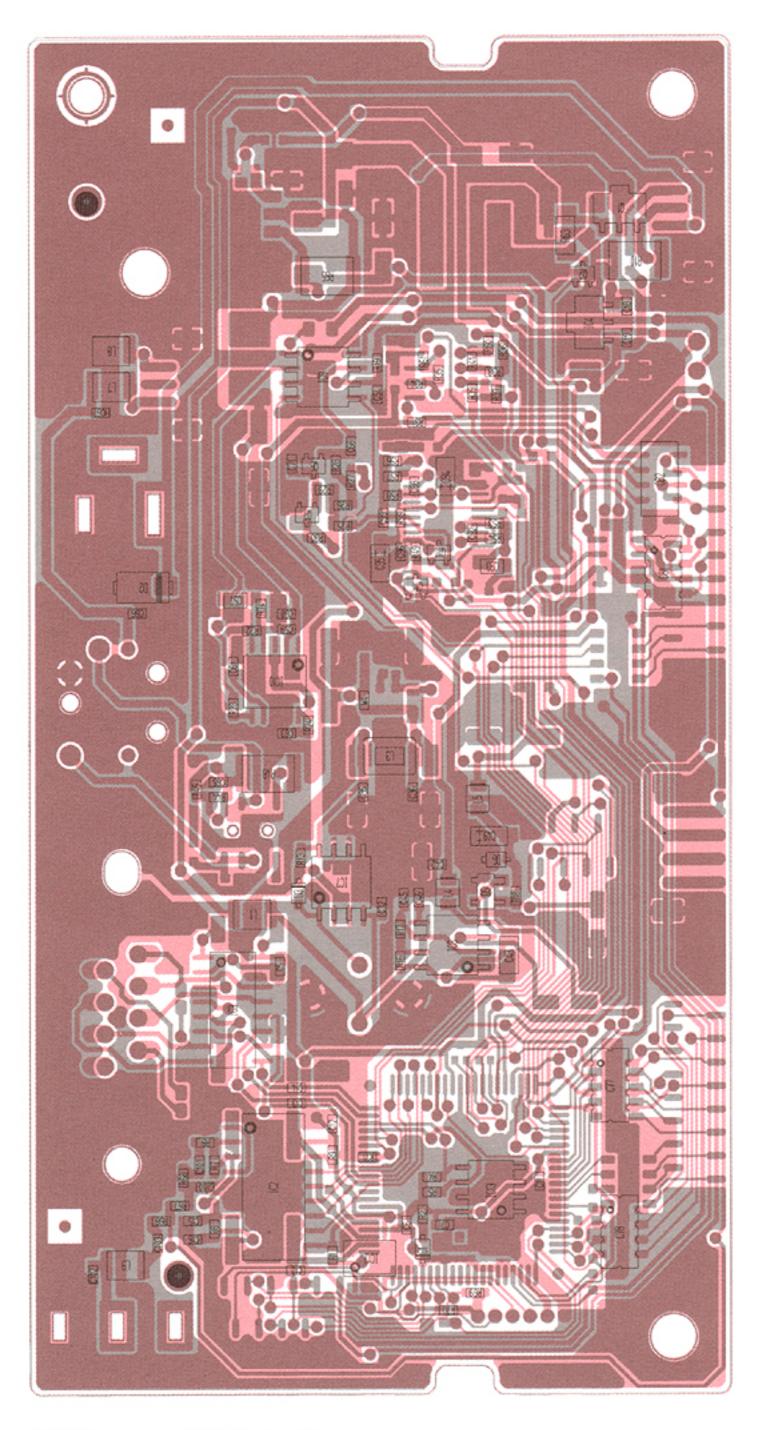
9-1 LOGIC UNIT

TOP VIEW

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



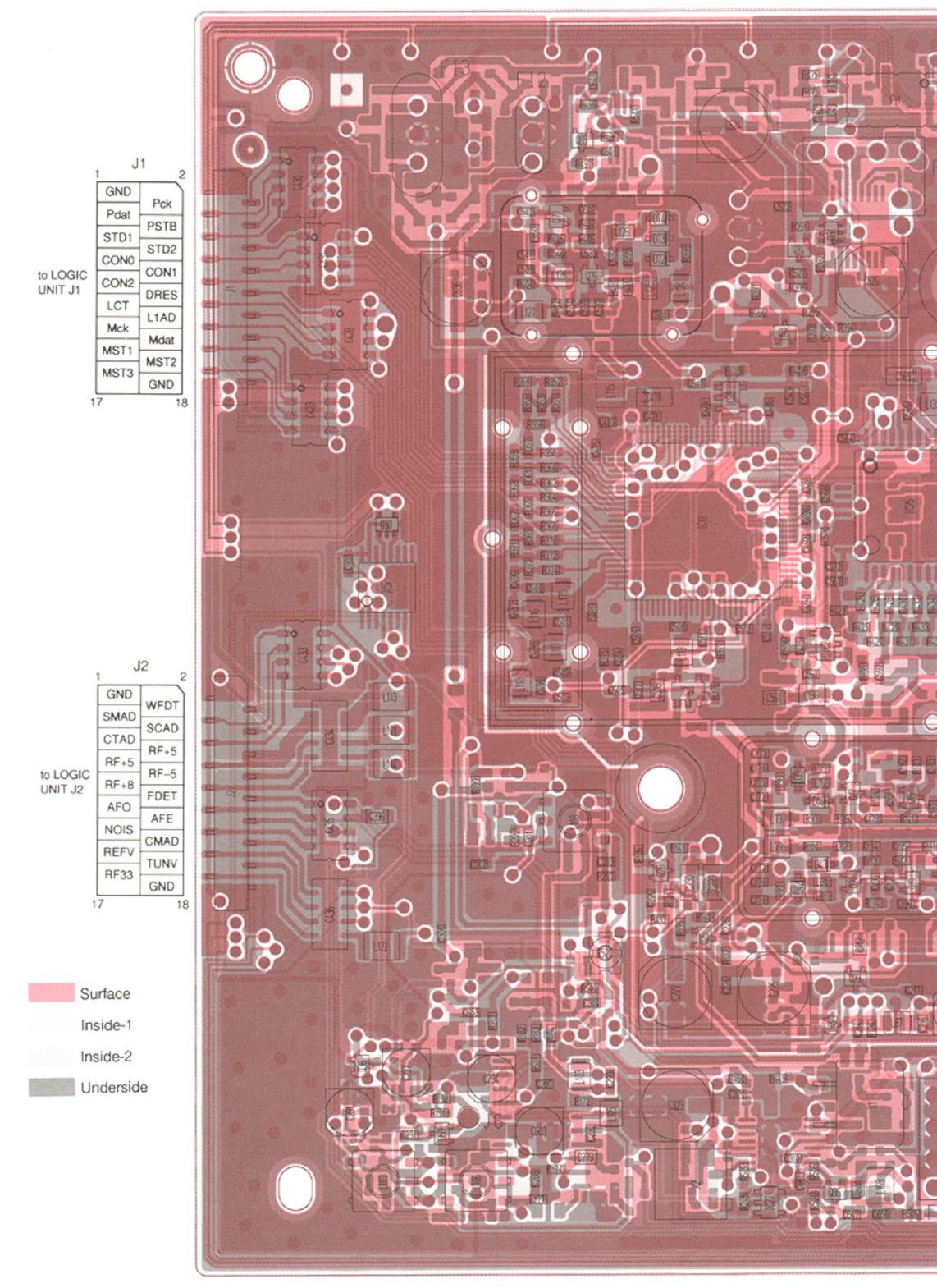




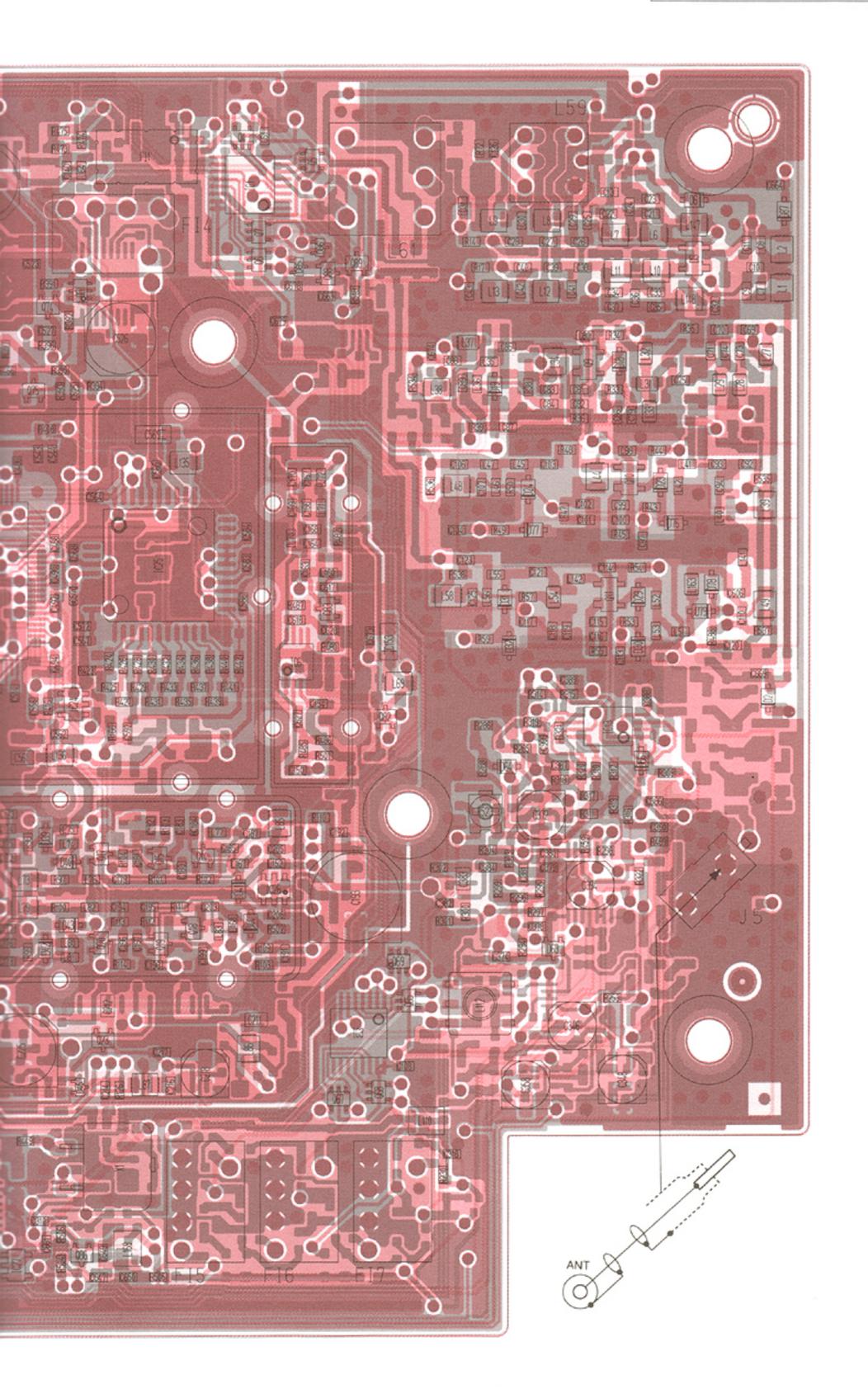


9-2 RF UNIT

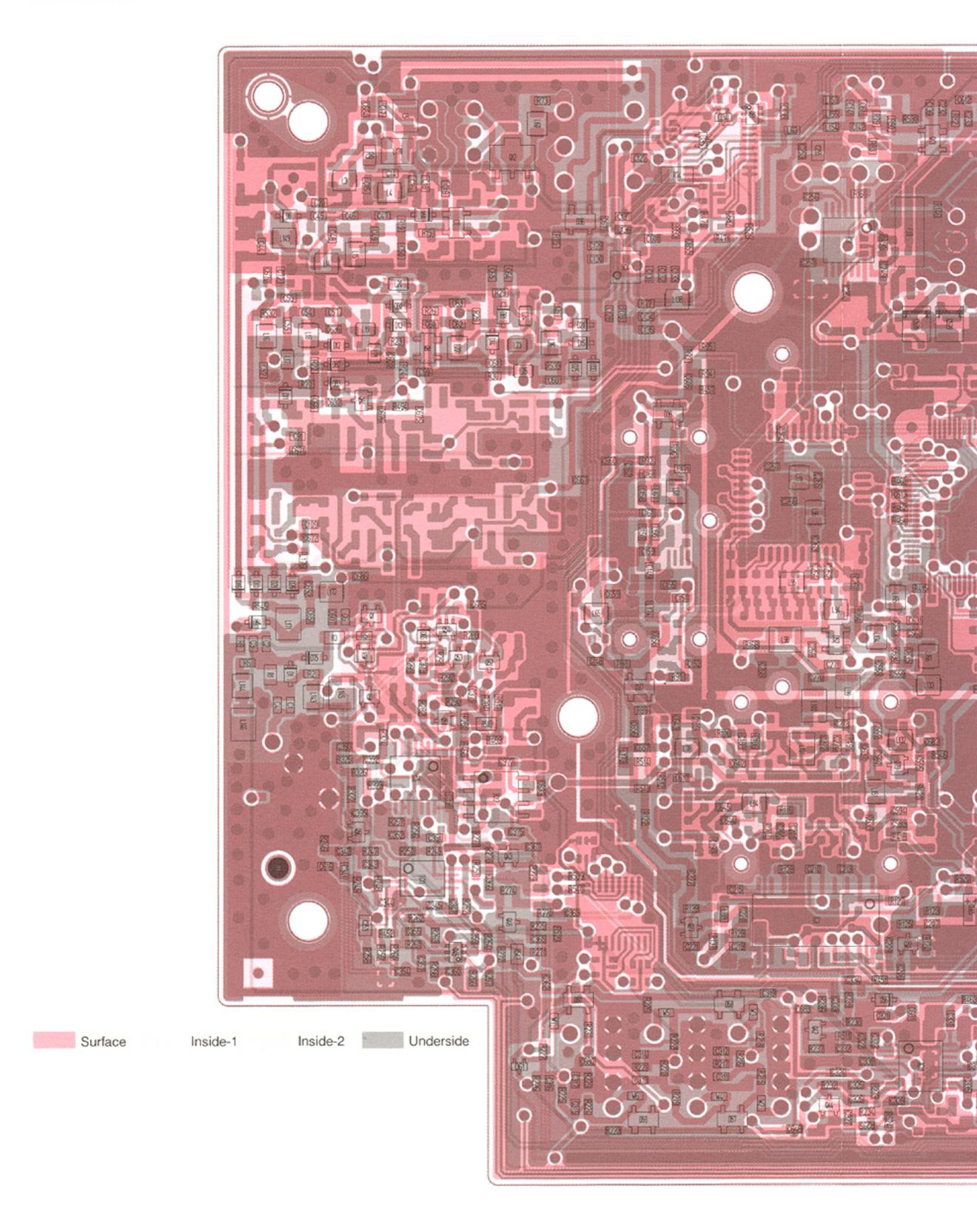
TOP VIEW

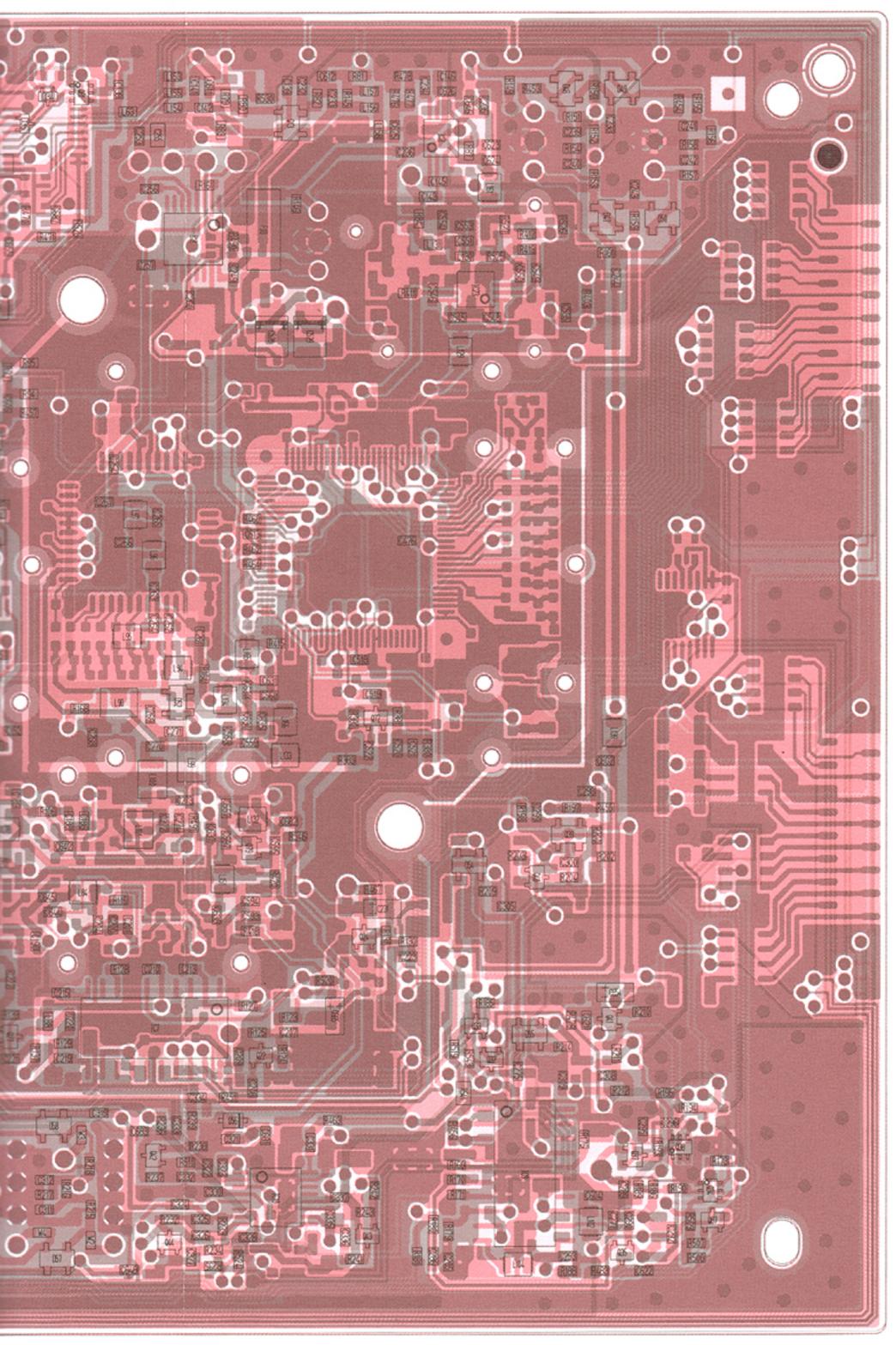


The combination of this page and the next page shows the unit layout in the same configuration as the actual P.C. Board.

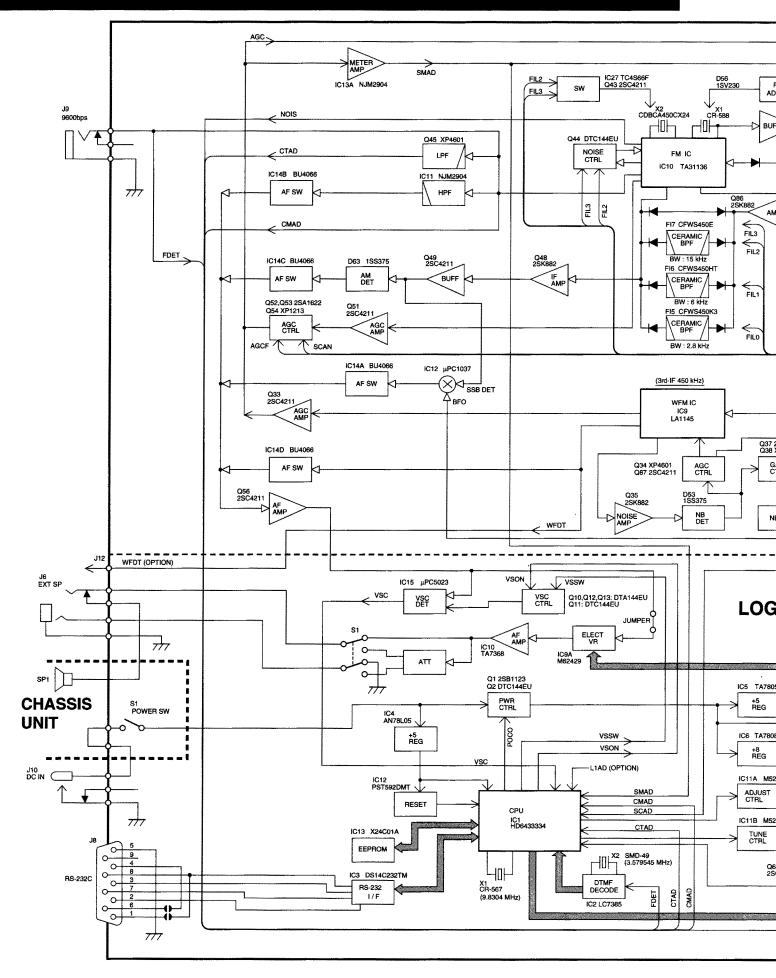


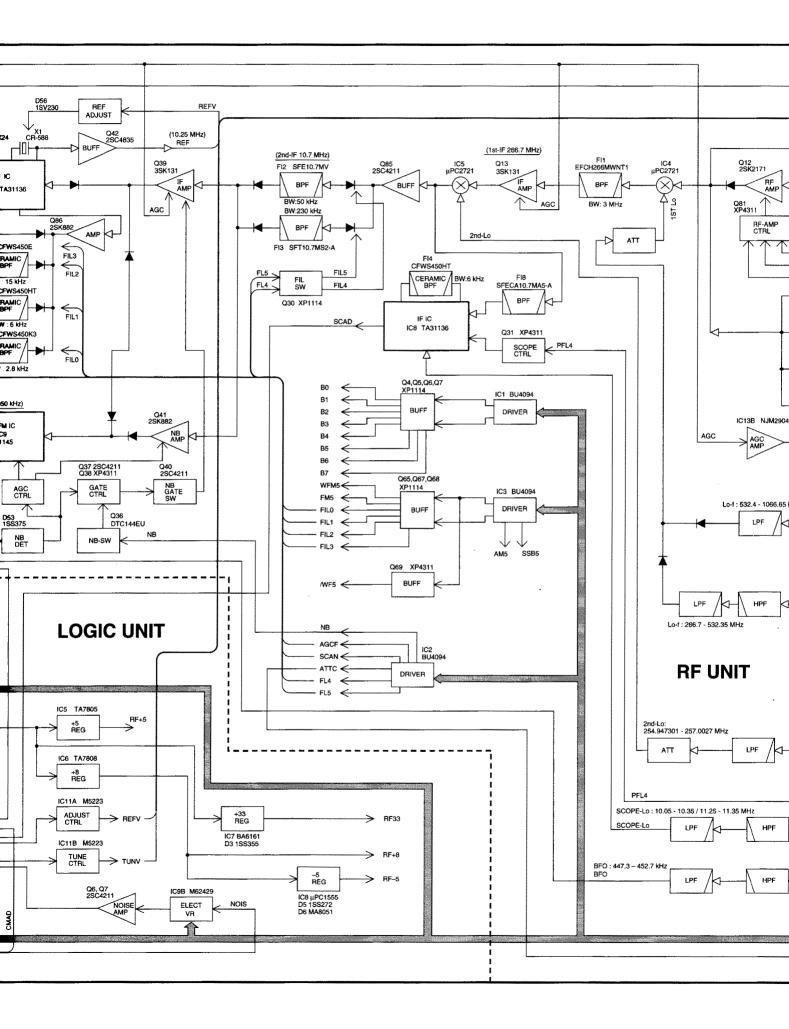
BOTTOM VIEW





SECTION 10 BLOCK DIAGRAM

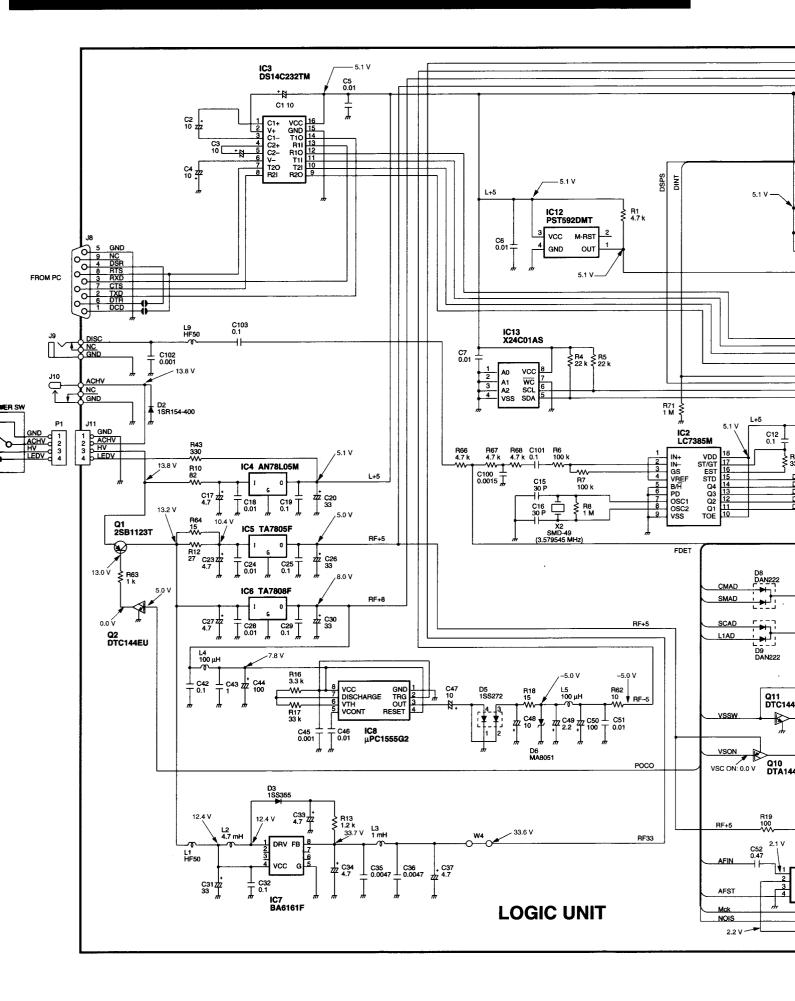


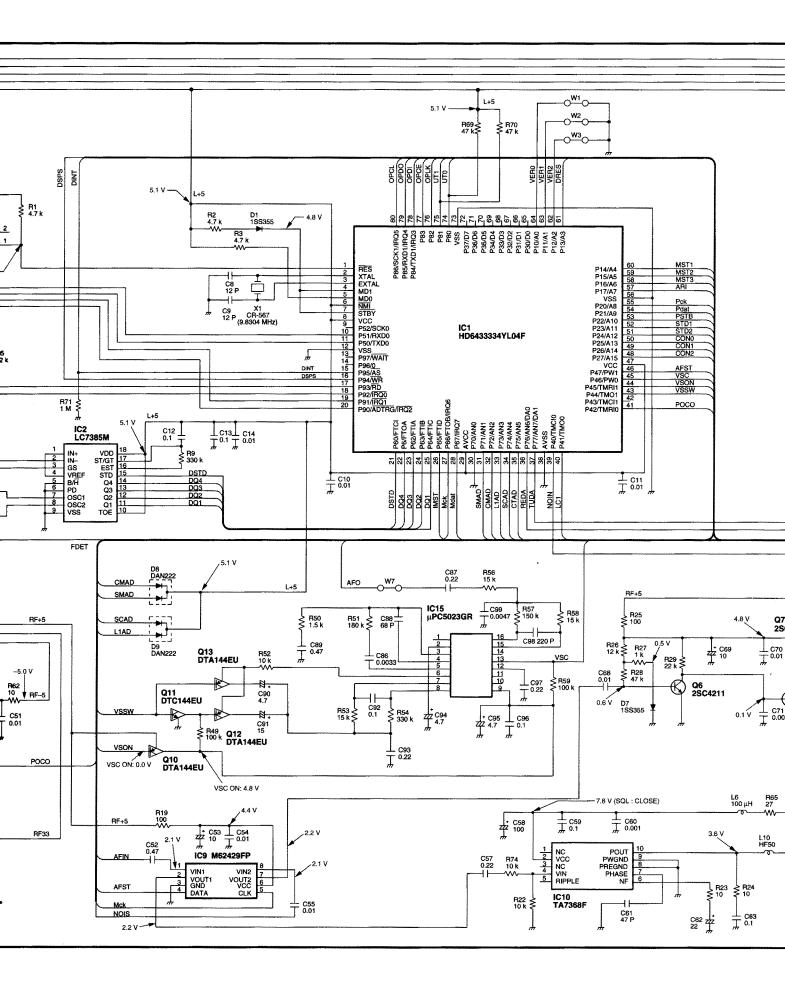


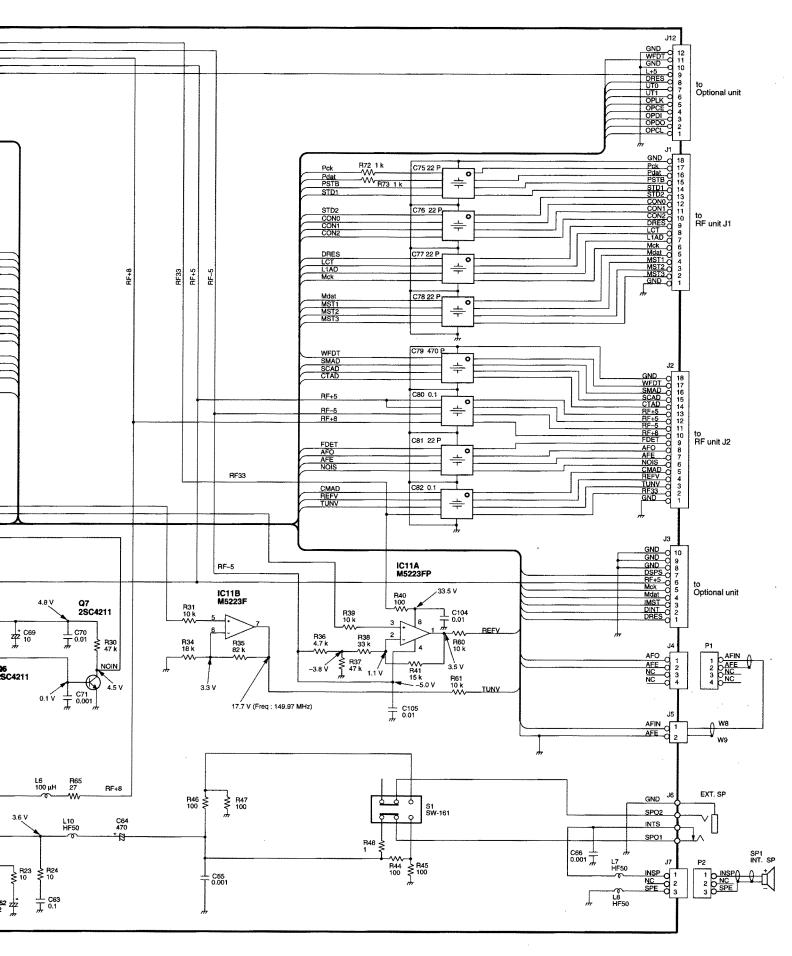
CHASSIS UNIT GND J1 (ANT) $(\mathbf{\bullet})$ Q < 1.8 MHz ↓ во 777 777 LPF Q12 2SK2171 D1, D75 1SV307 D87 1SV307 < 50 MHz ↓ ^{B1} 1.8 - 15 MHz AMP LPF HPF LPF AGC ATT ╁ ₼ Q88 DTC144EU Q89 2SC4211 Q81 XP4311 15 - 30 MHz 82 RF-AMP CTRL HPF LPF AGC CTRL SMAD ATTC ATT CTRL 30 - 50 MHz ↓ вз Q1 2SC4211 Q2 DTC144EU Q3 DTA144EU B1 Q84 2SC4835 HPF 82 VCO1 SW 83 Q8 3SK228 TUNED AMP (BPF1) ↓ ^{B4} HPF Q9 35K228 85 TUNED AMP (BPF2) HPF HPF **RX LINE** ⊳ Q10 3SK228 B6 <Note> BPF1: 50 - 150 MHz BPF2: 150 - 350 MHz BPF3: 350 - 700 MHz BPF4: 700 - 1300 MHz TUNED AMP (BPF3) HPF LINE ↓ B7 Q11 35K228 DATA BUS TUNED AMP (BPF4) HPF <1 IC138 NJM2904 AGC TUNV TUNV Q27 2SC4835 AMP REF (10.25 MHz) Q14,Q15 2SC5193 D39 1SV307 D40 1SV214 1C7 MC145190 2SC4211 Q25 2SK880 Q26 2SC4177 IC26 µPC2709 Lo-f : 532.4 - 1066.65 MHz 14 LOOP FIL PLL IC LPF BUFF AMP PFL2 ∱ vco1 ¥ VSF1 sw ⇒ Q18,Q19 2SC5193 D42 1SV307 D43 1SV214 Q82 DTA114EU IC6 µPB1508 VCO1 : 532.4 - 749.95 MHz VCO2 : 750.0 - 1066.65 MHz HPF LPF AMP ĸ 1/2 ← Q83 2SC4835 266.7 - 532.35 MHz VSF2 Q24 25K880 L1AD (to LOGIC unit-J12) BUFF **RF UNIT** IC23 µPB1509 IC28 TC7S04F HPF D/A LPF 1/8 AMP \triangleright IC19 TC7S04F AMP Q74 2SK880 Q76 2SC5193 (VC03) Ą Q77 2SC4835 Υ 257.0027 MHz Q75 2SC4117 LOOP FIL Q72 2SC4835 ⇔ DDS IC18 SC-1246 LPF BUFF k Ю <AMP D72,D73,D74 1SV217 VCO1 VSF1 VCO2 VSF2 0.35 / 11.25 - 11.35 MHz PFL2 LPF HPF PFL3 ٨ PFL4 IC25 SC-1287 IC24 TC7S04F Q79 2SC4835 LPF HPF AMP LPF HPF х З D/A DDS k <11

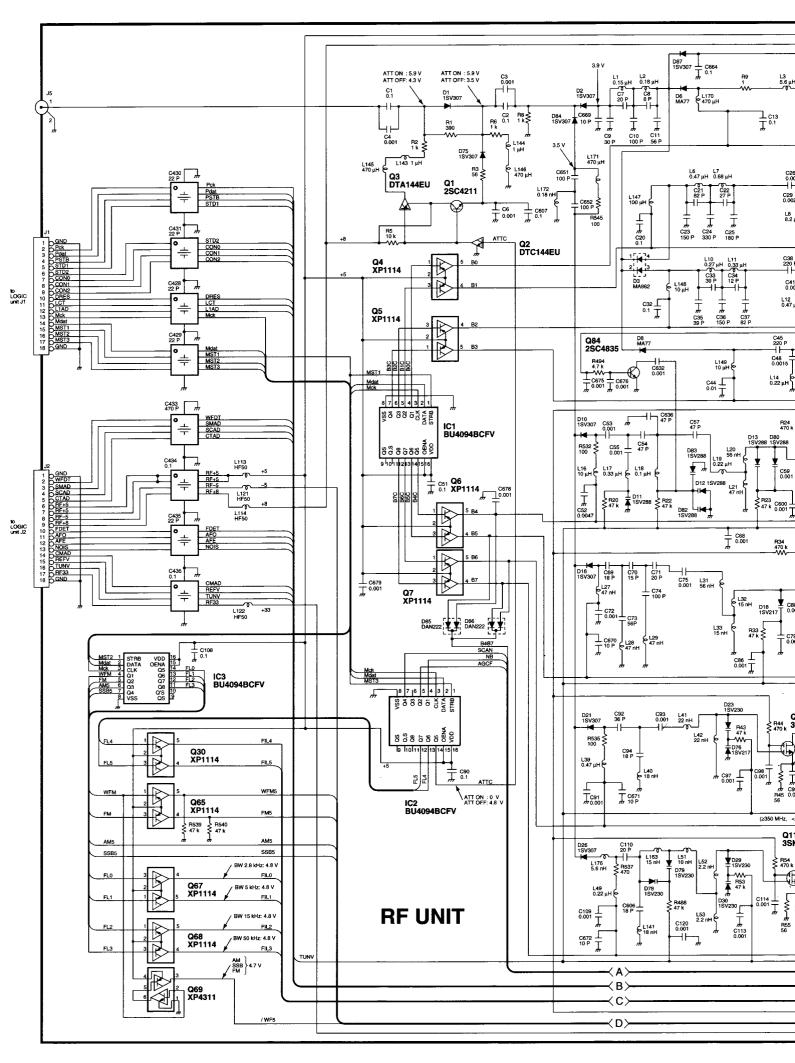
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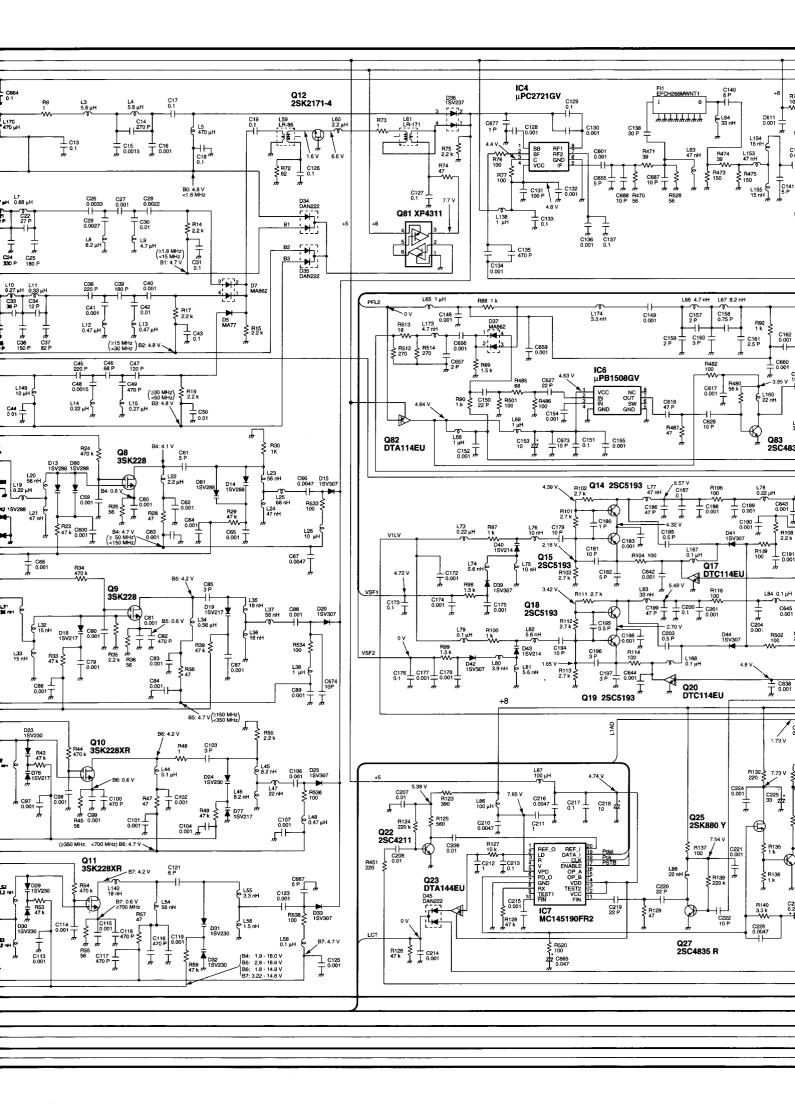
SECTION 11 VOLTAGE DIAGRAM

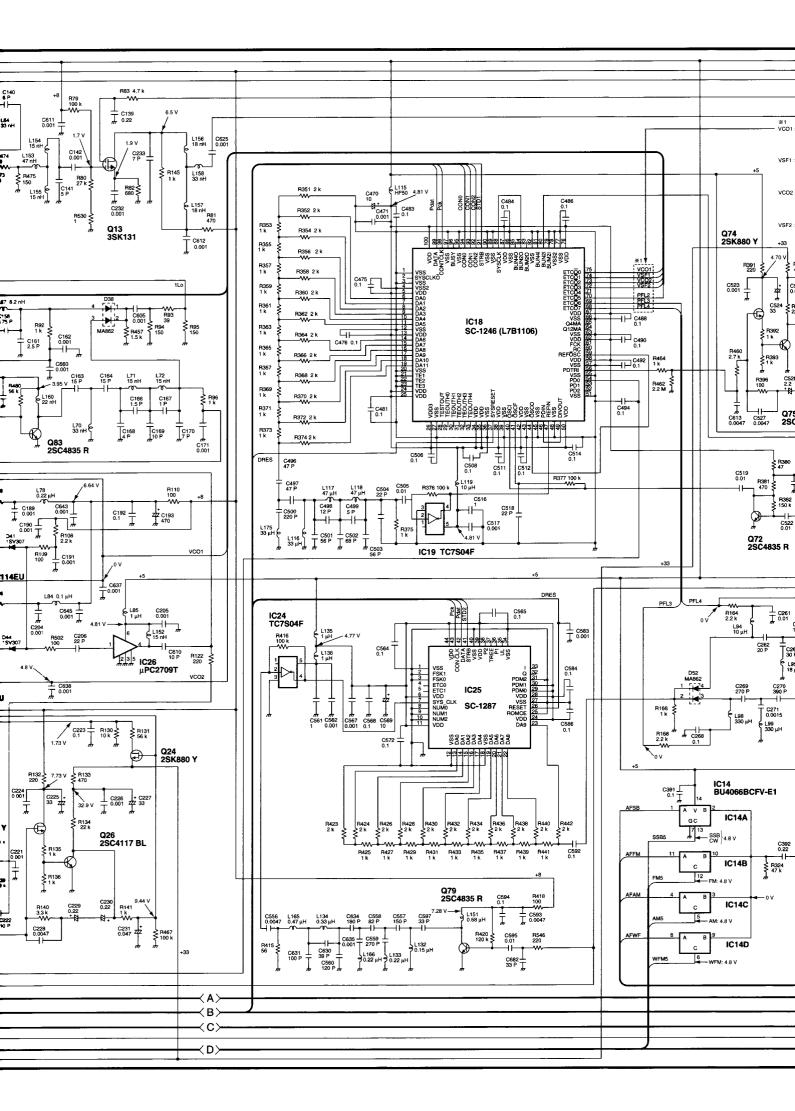


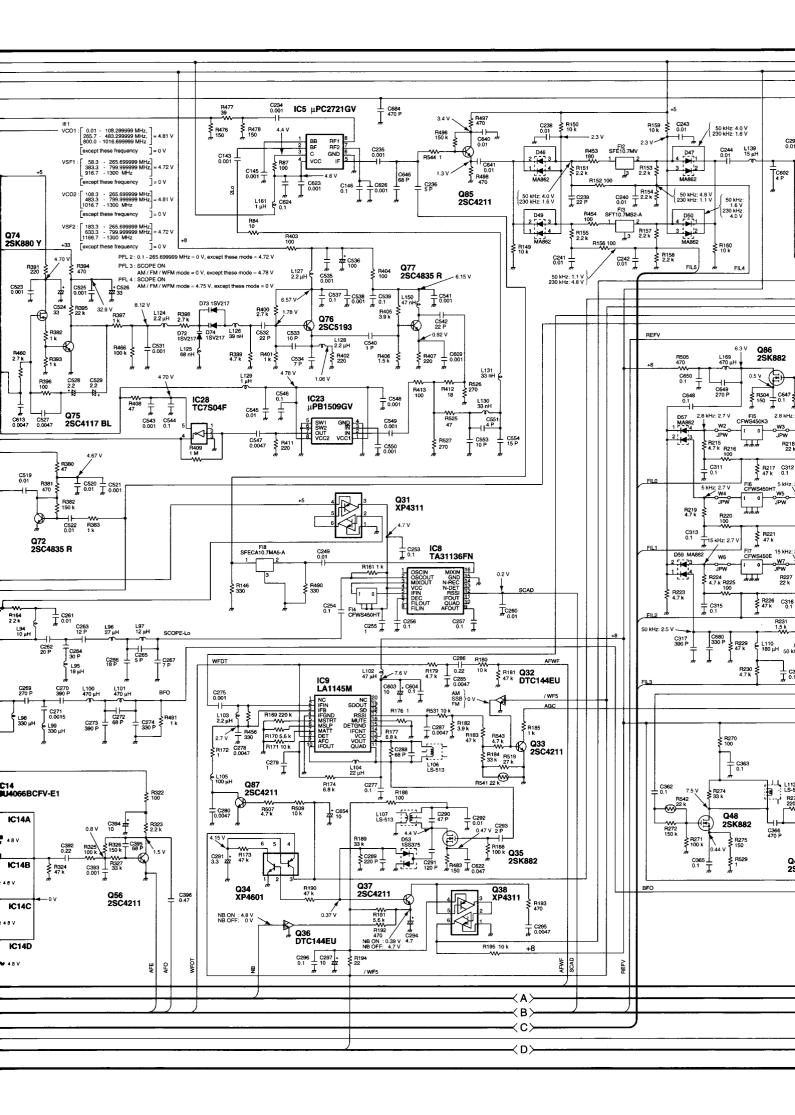


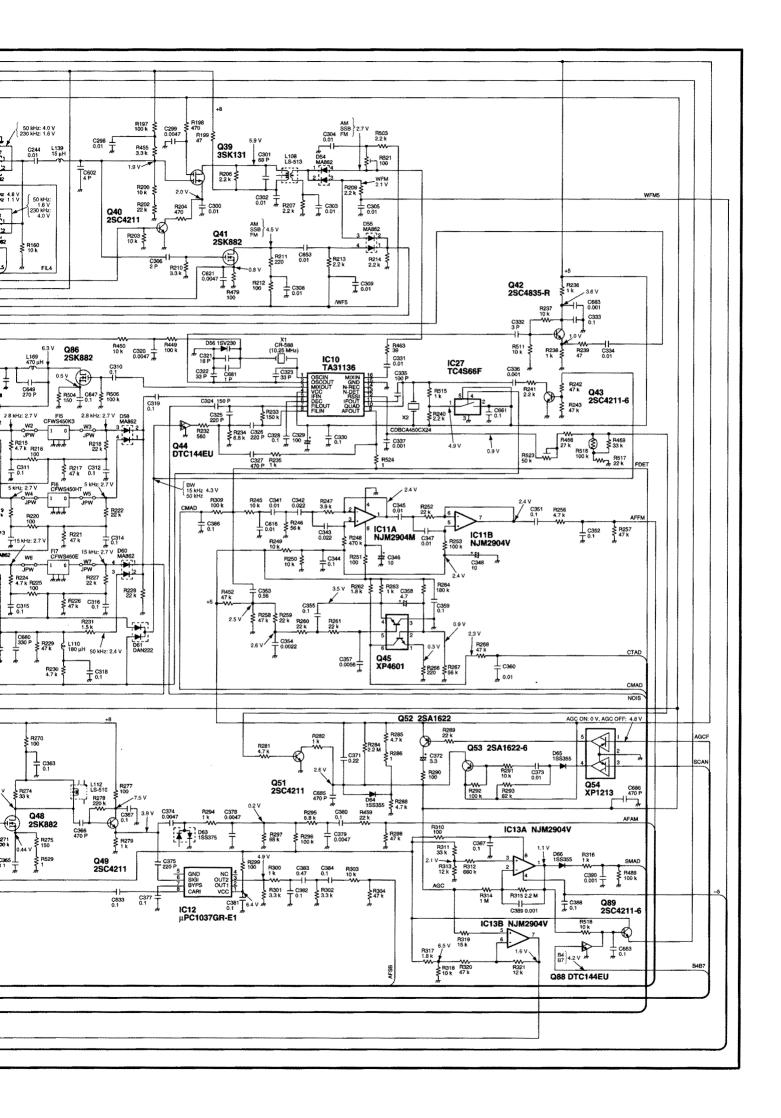












Icom Inc.

6-9-16, Kamihigashi, Hirano-ku, Osaka 547-0002, Japan Phone : 06 6793 5302 Fax : 06 6793 0013

Icom America Inc.

Corporate Headquarters> 2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A. Phone: (425) 454-8155 Fax: (425) 454-1509 URL : http://www.icomamerica.com <Customer Service> Phone: (425) 454-7619

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Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C. Phone : (02) 2559 1899 Fax : (02) 2559 1874

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Communication Equipment Himmelgeister Str. 100, D-40225 Düsseldorf, Germany Phone: 0:211 346047 - Fax: 0:211 333639 URL : http://www.icomeurope.com

Icom Spain S.L.

Crta. de Gracia a Manresa Km. 14,750 08190 Sant Cugat del Valles Barcelona, SPAIN Phone : (93) 590 26 70 Fax : (93) 589 04 46 URL : http://www.icomspain.com

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Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K. Phone : 01227 741741 Fax : 01227 741742 URL : http://www.icomuk.co.uk

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