OICOM

SERVICE MANUAL

HF TRANSCEIVER	
IC-77	
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Icom Inc.

INTRODUCTION

This service manual describes the latest service information for the IC-77 HF TRANSCEIVER at the time of publication.

VERSION NO.	VERSION	SYMBOL
#01	Philippines	PHI
#02	Other	OTH

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

DANGER

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

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

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

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



ORDERING PARTS

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

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

<SAMPLE ORDER>

1120000970 IC M54562P IC-77 MAIN UNIT 5 pieces 8810000230 Screw PH M3 × 6 IC-77 Chassis 10 pieces

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

REPAIR NOTES

- Make sure a problem is internal before disassembling the transceiver.
- DO NOT open the transceiver until the transceiver is disconnected from its power source.
- DO NOT force any of the variable components. Turn them slowly and smoothly.
- DO NOT short any circuits or electronic parts.
 An insulated tuning tool MUST be used for all adjustments.
- DO NOT keep power ON for a long time when the transceiver is defective.
- DO NOT transmit power into a signal generator or a sweep generator.
- ALWAYS connect a 50 dB to 60 dB attenuator between the transceiver and a deviation meter or spectrum analyzer when using such test equipment.
- READ the instructions of test equipment thoroughly before connecting equipment to the transceiver.

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SECTION 1 SPECIFICATIONS

GENERAL

• Frequency coverage : Transmit 1.6050-1.9999 MHz 3.5000-3.9999 MHz

5,0000-7.9999 MHz 9,0000-28,0000 MHz

28.0000-30.0000 MHz (Except Philippines version)

Receive 0.5000-30.0000 MHz

Mode : Philippines version SSB (USB)

Other versions Normal setting SSB (USB)

Optional settings SSB (LSB), AM, CW

• Number of channels : 50

• Antenna impedance : 50 Ω (nominal)

Usable temperature range
 Power supply requirement
 13.8 V DC ±15% (negative ground)
 Current drain (at 13.8 V)
 Transmit Max.
 A

Receive Squelched 1.3 A

Max. audio output 2.1 A

• Frequency stability : Philippines version Less than ±20 Hz from 15 min. after power ON at 0°C to

+50°C

Other versions Less than ±200 Hz from 1 min. to 60 min. after power ON

Less than ±30 Hz/hr, after 1 hr, at +25°C

Less than ±350 Hz with temperature fluctuations of 0°C to

+50°C

• Dimensions : 240 (W) × 95 (H) × 239 (D) mm

9.4 (W) \times 3.7 (H) \times 9.4 (D) in (Projections not included)

• Weight : 3.9 kg (8.6 lb)

TRANSMITTER

Output power : SSB, CW 5-100 W

AM 5-25 W

(continuously adjustable)

Modulation system : USB, LSB Balanced modulation

: 600 Ω

AM Low power modulation

• Spurious emissions : Less than -46 dB • Carrier suppression : More than 40 dB

• Unwanted sideband suppression : More than 50 dB

• Microphone impedance : 60

RECEIVER

 \bullet Sensitivity (Preamp ON) : USB, LSB, CW (12 dB SINAD) 1.6050-30.0000 MHz Less than 0.5 μ V

AM (10 dB S/N) 0.5000-1.6049 MHz Less than 12.6 μ V

1.6050-30.0000 MHz Less than 2.0 µV

Squelch sensitivity (Preamp OFF) : SSB, CW 5.6 μV

• Selectivity : USB, LSB, CW More than 2.1 kHz/-6 dB Less than 4.0 kHz/-60 dB

AM More than 6.0 kHz/-6 dB Less than 20.0 kHz/-40 dB

• Spurious and image rejection ratio: More than 70 dB

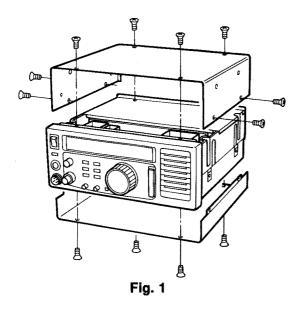
ullet Audio output power : More than 2.6 W with an 8 Ω load

• RIT variable range : ±1.2 kHz

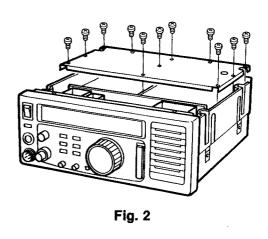
All stated specifications are subject to change without notice or obligation.

SECTION 2 DISASSEMBLY INSTRUCTIONS

1. Remove 12 screws from the top and bottom covers.



2. Remove 11 screws from the PA unit cover.

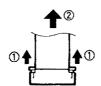


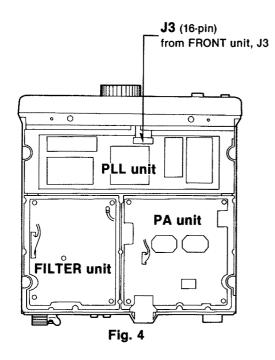
To remove the front panel:

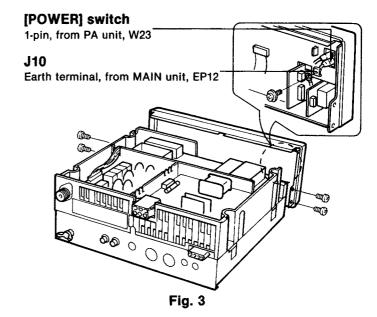
- 1. Unplug 8 connectors as shown in Fig. 4 and 5.
- 2. Remove 4 screws as shown in Fig. 3.
- 3. Unplug lead cable from [POWER] switch.
- 4. Remove 1 screw from J10 as shown in Fig. 3.

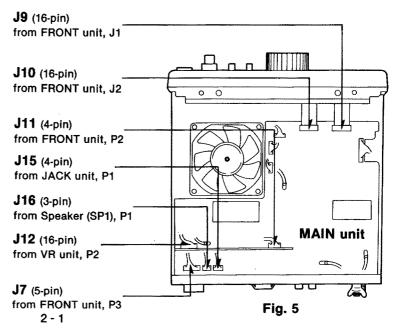
Remove flat cables.

- ① Pull out the connector tab.
- 2 Remove the flat cable.



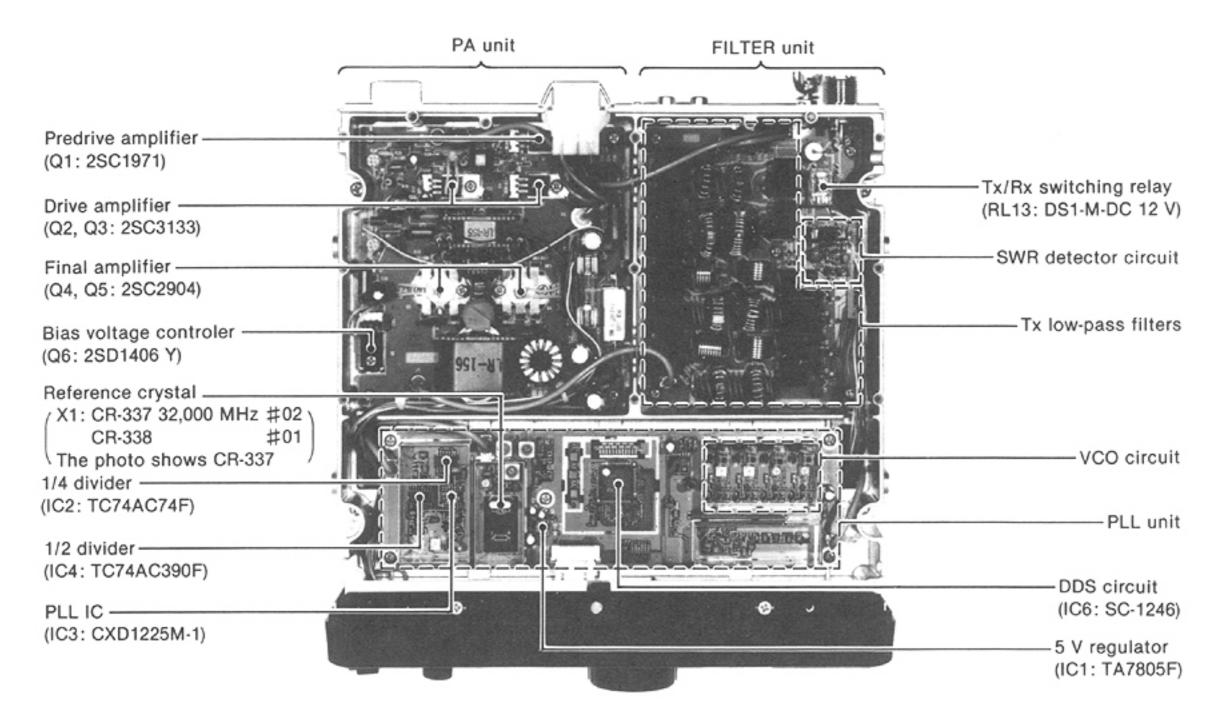




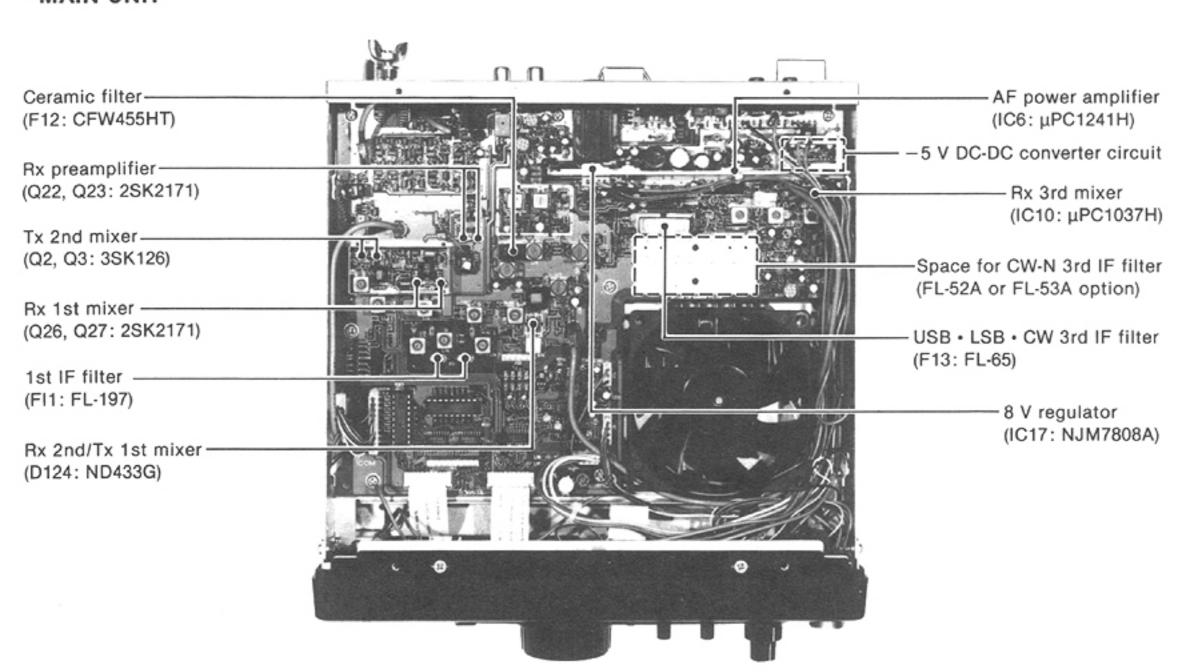


SECTION 3 INSIDE VIEWS

• PLL, PA AND FILTER UNITS



MAIN UNIT



SECTION 4 CIRCUIT DESCRIPTION

4-1 RECEIVER CIRCUITS

4-1-1 RF SWITCHING CIRCUIT (FILTER AND MAIN UNITS)

The RF switching circuit leads receive signals to bandpass filters from the antenna connector while receiving. While transmitting, this circuit leads the signals from the RF power amplifier to the antenna connector. This circuit includes a 20 dB RF attenuator circuit to prevent distortion from very strong signals.

RF signals from the antenna connector pass through the transmit/receive switching relay (RL13) and low-pass filter (L14, C14–C16), and are then applied to the MAIN unit via P2 (MAIN unit: J2).

The signals from the FILTER unit are either bypassed or are attenuated at the 20 dB attenuator (R99, RL1). There are no non-linear components from the antenna connector to the attenuator in this circuit construction. Therefore the attenuator effectively prevents distortion caused by strong signals. The signals are then applied to RF filters.

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

RF bandpass filters pass only the desired band signals and suppress any undesired band signals.

The RF circuit has 7 RF bandpass filters (BPF) for signals above 1.6 MHz and 1 low-pass filter (LPF) for signals below 1.6 MHz. The signals pass through the low-pass or one of the bandpass filters depending on their frequencies.

(1) 0.5-1.6 MHz

These signals pass through a low-pass filter (L28, L29, C84–C86) to suppress unwanted frequencies. The filtered signals are bypassed a preamplifier by a BPF control signal (B0) and preamp switch (Q21), and are then applied to the 1st mixer circuit (Q26, Q27).

(2) 1.6-2.0 MHz

These signals pass through a bandpass filter (L35–L39, C92–C99) to suppress unwanted frequencies. The filtered signals are then applied to the preamplifier circuit.

(3) 2.0-30.0 MHz

These signals pass through a high-pass filter (L33, L34, C89, C90, C359, C367) to suppress strong signals below 1.6 MHz, such as from broadcasting stations. The filtered signals are applied to one of 6 bandpass filters depending on their frequencies and are then applied to the preamplifier circuit.

USED RF FILTER

BAND	CONTROL SIGNAL	ENTRANCE DIODE	BAND	CONTROL SIGNAL	ENTRANCE DIODE
0.5-1.6 MHz	B 0	D33	8–11 MHz	B4	D45a
1.6-2 MHz	B1	D38	11–15 MHz	B5	D45b
2–4 MHz	B2	D41a	15-22 MHz	B6	D49a
4–8 MHz	<u>B3</u>	D41b	22-30 MHz	<u>B7</u>	D49b

4-1-3 PREAMPLIFIER CIRCUIT (MAIN UNIT)

The preamplifier circuit uses two 2SK2171s to obtain 10 dB of gain over a wideband frequency range. When the preamplifier is turned ON, the signals above 1.6 MHz are applied to the preamplifier circuit.

Q22 and Q23 are connected in parallel to easily match the impedance to 50 Ω . Q24 and Q25 switch the signals from a bandpass filter, either to be bypassed, or to be applied to the preamplifier, depending on the [PREAMP] switch condition.

Amplified or bypassed signals are applied to the 1st mixer circuit (Q26, Q27).

4-1-4 1ST MIXER CIRCUIT (MAIN UNIT)

The 1st mixer circuit mixes the receive signals with the 1st LO signal to convert the receive signal frequencies to a 64.455 MHz 1st IF.

The signals from the preamplifier circuit, or signals which bypass the preamplifier, pass through a low-pass filter. This low-pass filter suppresses signals above 30 MHz to eliminate direct receiving of signals at 64.455 MHz and image interference at 130–160 MHz. The signals are then applied to the 1st mixer (Q26, Q27).

The 1st LO signal (64.9535–94.4565 MHz) enters the MAIN unit from the PLL unit via P1 (PLL unit: J4). The LO signal is amplified at Q5 and then applied to the 1st mixer.

The 1st mixer (Q26, Q27) uses two 2SK2171s to produce high level mixing with a high intercept point.

EXACT 1ST IF FREQUENCY

MODE	FREQUENCY (MHz)
USB	64.4565
LSB	64.4535
CW	64.4541
AM, CW-N	64.4550

4-1-5 1ST IF CIRCUIT (MAIN UNIT)

The 1st IF circuit filters and amplifies the 1st IF signals. The 1st IF signals from the 1st mixer circuit are applied to MCF (Monolithic Crystal Filter; FI1) to suppress out-of-band signals. The passband width of FI1 is $\pm 7.5~\text{kHz}/-6~\text{dB}$. The filtered signals are applied to the 1st IF amplifier (Q28). AGC voltage is supplied to the 2nd gate of Q28.

4-1-6 2ND MIXER CIRCUIT (MAIN UNIT)

The 2nd mixer circuit mixes the amplified 1st IF signals and 2nd LO signal (64.00 MHz) to convert the 1st IF to a 2nd IF.

The amplified 1st IF signals from Q28 are converted to 455 kHz 2nd IF signals at the 2nd mixer (D124). D124 is a DBM (Double Balanced Mixer). The 2nd LO level is approx. 0 dBm.

The 2nd IF signals are applied to FI2 to suppress undesired signals such as the 2nd LO signal, and are then applied to the noise blanker gate (D10, D11).

EXACT 2ND IF FREQUENCY

MODE	FREQUENCY (kHz)
USB	456.5
LSB	453.5
CW	454.1
AM, CW-N	455.0

4-1-7 NOISE BLANKER CIRCUIT (MAIN UNIT)

The noise blanker circuit detects pulse type noise, and turns OFF the signal line when noise appears.

The 2nd IF signals from FI2 are applied to the noise blanker gate (D10, D11). A portion of the signals from FI2 are amplified at the noise amplifiers (Q10, Q12, Q13), then detected at the noise detector (D15). The detected signal from the noise detector is applied to the noise blanker switch (Q39).

A portion of the detected signals from the noise detector is applied to the noise AGC circuit (Q11, Q37, C211, R59, R214) to control the bias voltage of the noise amplifier (Q10, Q12).

The threshold level of the noise blanker switch (Q39) is set at 0.9 V. When the detected voltage exceeds the threshold level, Q40 outputs a blanking signal to close the noise blanker gate (D10, D11), depending on the pulse noise period.

When the operating frequency is changed, the "DNB" signal line becomes "LOW," turning Q40 ON through D72. In this case, the noise blanker gate prevents PLL click noise.

4-1-8 2ND IF CIRCUIT (MAIN UNIT)

The 2nd IF circuit amplifies and filters the 2nd IF signals.

The signals passed through the noise gate (D10, D11) are amplified at Q9. AGC voltage is supplied to the 2nd gate of Q9.

When SSB or CW mode is selected, the amplified signals pass through FI3 (FL-65). When an optional CW narrow filter is installed and CW-N mode is selected, the signals pass through the CW narrow filter. When AM mode is selected, the signals bypass the 2nd IF filter.

The filters are selected with mode selecting signals (SSB•CW, AM, CW-N) and the "T8V" voltage line.

The filtered signal is amplified at Q44—Q46 to obtain a detectable level. AGC voltage is supplied to the 2nd gate of Q46. A thermistor (R228), connected to the gate of Q45, improves the temperature characteristics of the receiver gain. R230 adjusts the receiver gain.

Output signals from Q45 are applied to the SSB/CW detector. Output signals from Q44 are shared between the AM detector and AGC detector.

4-1-9 BFO CIRCUIT (PLL UNIT)

BFO (Beat Frequency Oscillator) frequency is used at the SSB/CW detector and the balanced modulator. The IC-77 uses a PLL circuit for the BFO circuit.

The oscillated signal at the VCO (Q15, 45.33–45.65 MHz) is buffer-amplified at Q16 and applied to the divider (IC4). The signal is divided by 2 at IC4 and is applied to a PLL IC (IC3).

The signal is divided at the programmable divider section in IC3 and is then phase detected at the phase comparator section with a 5 kHz reference frequency. The phase detected signal is output from pin 7 and is then converted to a DC voltage (lock voltage) by the active loop filter (Q13, Q14). The lock voltage is applied to the varactor diode (D3) in the VCO circuit to change the capacitance of the diode and control the oscillation frequency.

The oscillating signal is then buffer-amplified at Q16, divided by 100 at IC4, filtered by the low-pass filter (L14, L15, C51–C55), and finally applied to the product detector (MAIN unit IC10) for receive demodulation.

BFO FREQUENCY IN EACH MODE

MODE	FREQUENCY (kHz)		
MODE	RECEIVE TRANSM		
USB	456.5		
LSB	453.5		
CW	453.3 454.1		
CW-N	454.2 455.0		
AM	NO OUTPUT 455.0		

4-1-10 SSB/CW DEMODULATOR CIRCUITS (MAIN UNIT)

In SSB or CW mode, the 2nd IF signal from the IF amplifier (Q45) is mixed with the BFO signal from the PLL unit at the product detector (IC10) to demodulate the 2nd IF signal into an AF signal. The detected signal (AF) from IC10 (pin 3) is applied to the AF input mode selector switch (IC5).

4-1-11 AM DEMODULATOR CIRCUITS (MAIN UNIT)

In AM mode, the 2nd IF signal from the buffer amplifier (Q44) passes through C198 and is detected at D71. The detected signal (AF) is then applied to the AF input mode selector switch (IC5).

4-1-12 AF INPUT MODE SELECTOR SWITCH (MAIN UNIT)

The AF signal from one of the detector circuits is applied to the AF input mode selector switch (IC5). IC5 consists of 4 analog switches which are selected with a mode signal and the squelch control signal. The AF signal is output from IC5 (pins 1, 4) and then applied to the AF amplifier circuit.

4-1-13 AGC CIRCUIT (MAIN UNIT)

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

The receiver gain is determined by the voltage on the AGC line (Q33, collector). The voltage is usually set by D64 and the resistance ratio of R171, R172, R174 and R176.

The 2nd IF signal from the buffer amplifier (Q44) is detected at the AGC detector (D65) and is then applied to the DC amplifier (Q33). - 5 V is applied to the Q33 emitter to activate the AGC line with minus voltage.

When receiving strong signals, the detected voltage increases and the voltage of the AGC line decreases via the DC amplifier (Q33). As the AGC line is used for the bias voltage of the IF amplifiers (Q9, Q28, Q46), IF amplifier gain is decreased.

When the strong signal disappears, the AGC line voltage is released by C175 and R170 in CW mode to obtain a fast AGC release time. In SSB or AM mode, C174 and R169 are connected in parallel to obtain a slow AGC release time.

4-1-14 S-METER CIRCUIT (MAIN UNIT)

The S-meter circuit indicates the relative received signal strength while receiving by utilizing the AGC voltage which changes depending on the received signal strength.

The AGC bias voltage (time constant line) is applied to a differential amplifier (IC9 pin 6) where the difference between the bias and reference voltages is detected.

The resulting S-meter signal is applied to the A/D converter section in the CPU (FRONT unit IC1 pin 98) and the S/RF indicator displays the relative signal strength. The reference voltage is adjusted with R175.

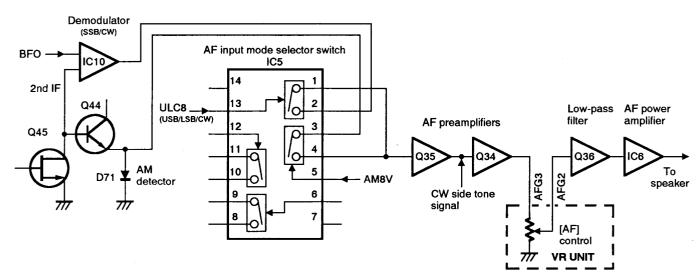
4-1-15 SQUELCH CIRCUIT (MAIN UNIT)

The squelch circuit mutes audio output when the S-meter signal is lower than the [SQL] control setting level.

The S-meter signal from IC9b (pin 7) is applied to the comparator (IC9a pin 2) through D63 to be compared with the threshold level set by the [SQL] control.

When the S-meter signal is lower than the threshold level, the comparator becomes "HIGH" and Q32 turns ON to deactivate the AF input mode selector switch (IC5 pins 5, 13). This cuts the AF signal OFF. This signal is then applied to Q31, turning OFF the [RX] indicator, and is also applied to the [MIC] connector (pin 4) and [ACC(1)] connector (pin 6).

AF CIRCUIT



4-1-16 AF AMPLIFIER CIRCUIT (MAIN UNIT)

The AF amplifier amplifies the AF input signal to a suitable driving level for the speaker.

The AF signal from the AF input mode selector switch is applied to the AF preamplifiers (Q34, Q35). The CW side tone signal is applied to Q34.

The amplified signal is applied to the [AF] control (R1 on the AF unit) and then to the 2.3 kHz cut-off active low-pass filter (Q36). The AF signal output from Q36 is power-amplified at IC6 to drive the speaker.

4-2 TRANSMITTER CIRCUITS

4-2-1 MICROPHONE AMPLIFIER CIRCUIT (FRONT AND MAIN UNITS)

The microphone amplifier circuit amplifies the microphone input signals and outputs the amplified signal to the balanced modulator.

Audio signals from the [MIC] connector are adjusted at the [MIC] control (FRONT unit R61) and amplified at IC18c and IC18b (MAIN unit). External modulation input from the [ACC(1)] socket (pin 4) is also applied to IC18c via R341 (MAIN unit). The microphone bias voltage is supplied from the 8 V line via R62 and R63 (FRONT unit).

In AM mode, the maximum level of the IC18c output is limited by the ALC circuit (IC18d, Q57, D91). The maximum modulation level is set by R300 (MAIN unit).

4-2-2 BALANCED MODULATOR (MAIN UNIT)

The balanced modulator converts the AF signal from the microphone amplifier to a 455 kHz IF signal with a BFO signal.

Output signals from the microphone amplifier and the CW keying signal are applied to the balanced modulator (IC11 pin 5). The BFO signal from the PLL unit is applied to IC11 (pin 7) as a carrier signal.

IC11 is a double balanced mixer IC and outputs a double side band (DSB) signal with $-40\ dB$ carrier suppression.

R251 and R253 adjust the balanced level of IC11 for maximum carrier suppression. In CW mode, the CW keying signal upsets the balance to create a carrier signal. In AM mode, Q75 and R407 upset the balance to create an AM carrier signal.

4-2-3 CW KEYING CIRCUIT (MAIN UNIT)

The CW keyer is connected to Q68. When the CW key is closed, 8 V is output from Q68 and this voltage controls break-in operation, the side tone signal and the transmit signal.

The 8 V from Q68 is applied via D106, D101 and D102 to the balanced modulator (IC11) to unbalance the IC11 input bias voltage and create a carrier signal. R331 determines the transmit delay timing.

(1) BREAK-IN

The IC-77 is automatically set to transmit by CW keying. The 8 V from Q68 is applied to the base of Q66 via Q67. When the key is closed, Q66 grounds the SEND line for transmitting.

The transmit release delay time is determined by C290, R335 and R336.

(2) SIDE TONE

When the CW key is closed, the side tone circuit (Q64) oscillates and sends the signal to the AF circuit.

Normally, D100 is ON, and C285 is connected to the Q64 collector so that no oscillation occurs. When the CW key is closed, the 8 V from Q68 via D101 give D100 reverse bias to disconnect C285 from Q64. Q64 then oscillates with 800 Hz as a side tone signal. R328 prevents side tone click noise.

(3) KEYING

Keying is controlled at 2 points in the IC-77. The balanced mixer (IC11) stops the carrier output by recovering the balance of the input bias voltage. Q7, located at the 2nd IF mixer (D124) input, cuts the signal line.

C287, R330 and R331 determine the voltage wave form to IC11 (pin 6) to produce the keying wave form.

4-2-4 IF AMPLIFIER (MAIN UNIT)

The SSB/CW 455 kHz IF signal passes through FI3 (FL-65) to suppress unwanted sideband signals, then the signal is applied to a transmit IF amplifier (Q8). The optional CW narrow filter is not used in transmitting.

The amplified signal from Q8 is mixed with the 2nd LO signal and converted to a 64.455 MHz IF signal at D124. D124 is used in receiving and transmitting. The AM signal bypasses FI3, is amplified at Q8 and is then applied to D124.

The 64.455 MHz IF signal is filtered at FI1, amplified at the IF amplifier (Q4) and is then converted to the displayed frequency at the balanced mixer (Q2, Q3) with the 1st LO signal.

The gates of the IF amplifiers (Q4, Q8) are controlled by ALC bias voltage from the ALC circuit. A thermistor (R41), connected to the gate of Q8, improves the temperature characteristics of the transmitter gain. R36 adjusts the total transmitter gain.

4-2-5 RF CIRCUIT (MAIN AND PA UNITS)

The displayed frequency signal converted at the balanced mixer (MAIN unit Q2, Q3) is applied to the bandpass filter (L3–L5, C3–C7, C9, C10) where unwanted LO signal emission is reduced. The filtered signal is amplified at Q1, and is then applied to the PA unit via the attenuator.

The signals from the MAIN unit are amplified at the predrive amplifier (Q1), drive amplifier (Q2, Q3) and power amplifier (Q4, Q5) in the PA unit to obtain a stable 100 W of RF output power.

The predrive amplifier is a class A amplifier with a Vcc of 13.8 V. The drive amplifier is a class AB push-pull amplifier with a Vcc of 13.8 V. D1 controls bias voltage to the drive amplifier.

The impedance of the signal from the drive amplifier is converted at L2, then the signal is applied to the power amplifier (Q4, Q5). The power amplifier is a class AB push-pull amplifier and amplifies the input signal to 100 W. D2 and D3 control bias voltage to the power amplifier. The signal from the power amplifier is applied to one of the low-pass filters in the FILTER unit.

4-2-6 LOW-PASS FILTER CIRCUIT (FILTER UNIT)

The low-pass filter circuit consists of 6 Chebyschev low-pass filters to suppress the higher harmonic components. The signal from the power amplifier (Q4, Q5) is applied to one of the low-pass filters (depending on its frequency). The filter switching voltage from the MAIN unit (J4) is applied to the FILTER unit via P1.

The filtered signal passes through the SWR detector circuit (L13) and is then applied to the antenna connector.

4-2-7 ALC CIRCUIT (MAIN UNIT)

The ALC (Automatic Level Control) circuit controls the gain of IF amplifiers in order for the IC-77 to output a constant RF power set by the [RF PWR] control even when the supplied voltage shifts, etc.

The RF power signal level is detected at D8 (FILTER unit) and applied to the MAIN unit as the "FOR" voltage.

The "FOR" voltage from the FILTER unit is applied to IC15b (pin 6) in the MAIN unit. The "POC" voltage, set by the [RF PWR] control (FRONT unit R60), is applied to IC15b (pin 5) as the reference voltage.

When the "FOR" voltage exceeds the "POC" voltage, ALC bias voltage from IC15b (pin 7) controls the IF amplifiers (Q4, Q8). This adjusts the output power to the determined level by the [RF PWR] control until the "FOR" and "POC" voltages are equalized.

In AM mode, Q48 turns ON and C256 is connected to the "FOR" voltage line to obtain an averaging ALC operation. Q47 turns ON and the "POC" voltage is shifted for 40 W AM output power (maximum) through R274.

An external ALC input from the [ACC(1)] or [ACC(2)] socket or the [ALC] jack is applied to the buffer amplifier (Q50). External ALC operation is identical to that of the internal ALC.

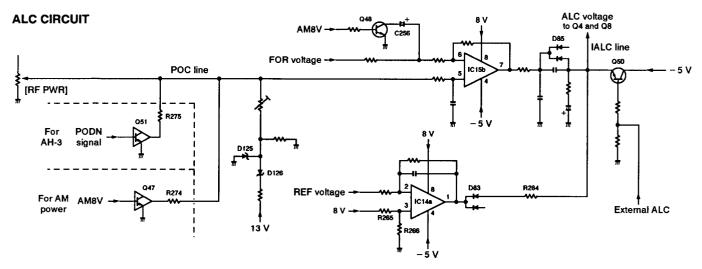
4-2-8 APC CIRCUIT (MAIN UNIT)

The APC (Automatic Power Control) circuit protects the power amplifiers on the PA unit from high SWR and excessive current.

A reflected wave signal appears and increases on the antenna connector when the antenna is mismatched. D9 of the SWR detector circuit (L13, D8, D9) in the FILTER unit detects the signal and applies it to IC14a in the MAIN unit as the "REF" signal.

When the "REF" signal level increases, IC14a decreases the IALC line voltage via R264 to activate the ALC.

For the IC APC, the power transistor current is obtained by detecting the voltages ("ICH" and "ICL") which appear at both terminals of a 0.012 Ω resistor (PA unit R25). The detected voltage is applied to the differential amplifier (IC15a pins 2, 3). When the current of the final transistors is more than 22 A, IC15a controls the IALC line via D86 to prevent excessive current flow.



During tuning of an antenna with an optional AT-130, the "PODN" signal turns Q51 ON. As a result, the "POC" voltage is shifted for approx. 10 W output power.

4-2-9 TEMPERATURE PROTECTION CIRCUIT (MAIN UNIT)

A cooling fan (CHASSIS unit MF1) is activated while transmitting or if the temperature of Q4 exceeds the preset value.

While transmitting, PAT8 voltage is provided to MF1 via R29. Thermistor R29 on the PA unit detects the temperature of Q4. If the Q4 temperature is more than 50°C (122°F), R29 becomes very low impedance and keeps Q73 and Q74 (MAIN unit) ON to rotate the cooling fan at high speed – even when the transceiver condition has changed from transmit to receive.

4-2-10 RF METER CIRCUIT (MAIN UNIT)

The "FOR" voltage from the FILTER unit is applied to the RF meter amplifier (IC14b pin 5). The amplified voltage is output from IC14b (pin 7) and then applied to the A/D converter section of the CPU (IC1 pin 99) in the FRONT unit. R268 adjusts the meter sensitivity and R273 and C254 are used for RF meter peak power hold.

4-3 PLL CIRCUITS

4-3-1 GENERAL DESCRIPTION

The PLL unit contains 2 PLL circuits for generating a 1st LO signal (64.9535–94.4565 MHz variable) and a BFO frequency (453.3–456.5 kHz). The 1st LO PLL employs a 1 loop DDS PLL whose reference oscillator is also used as the 2nd LO signal (64.00 MHz fixed). The DDS (Direct Digital Synthesizer) circuit performs signal sampling, generation of digital sine wave and digital phase detection.

4-3-2 1ST LO CIRCUIT (PLL UNIT)

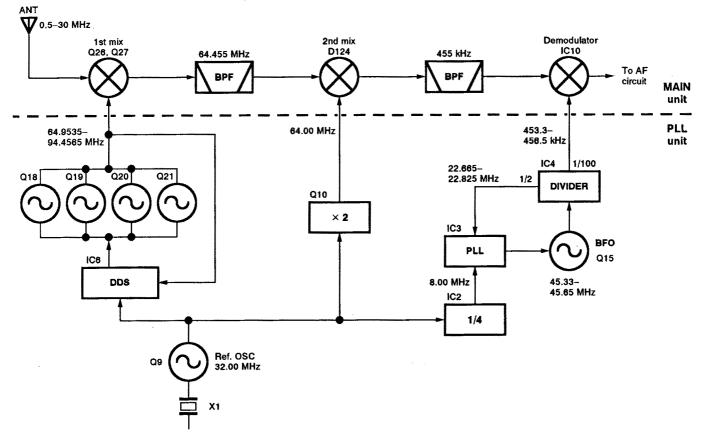
The PLL contains 4 VCO circuits for all HF band coverage within 10 Hz steps (100 Hz step by programming and 10 Hz by an RIT). One of four VCO oscillation signals is buffer-amplified at Q26 and is then amplified at Q29, Q32 and Q30. The resulting signal is applied to the DDS IC (IC6).

The DDS IC outputs pulse-type signals. The signals are applied to the active loop filter (IC5) to be converted to a DC voltage (lock voltage).

The lock voltage is applied to the varactor diodes (D4–D7) in the VCO circuits to change the capacitance of these diodes and control the oscillation frequency. The VCO circuits are switched by the VCO switching signal ("VCO1"–"VCO4") from the DDS IC.

The VCO oscillating signal is then buffer-amplified at the buffer amplifier (Q26), amplified at Q27 and Q28, and finally applied to the MAIN unit as a 1st LO signal.

FREQUENCY CONSTRUCTION



4-3-3 REFERENCE OSCILLATOR CIRCUIT (PLL UNIT)

The reference oscillator circuit consists of Q9 and X1. A 32.00 MHz reference frequency is oscillated to produce a 2nd LO signal, DDS reference frequency and BFO PLL reference frequency.

The reference frequency is applied to the DDS IC (IC6 pins 40, 41). The reference frequency is amplified at Q11 and is then divided by 4 at IC2. The 8.00 MHz frequency is divided by 1600 at the BFO PLL IC (IC3) to obtain the 5 kHz PLL reference frequency.

The 32.00 MHz reference frequency is multiplied by 2 at Q10 to obtain the 2nd LO signal. The resulting 64.00 MHz signal is filtered at the bandpass filter and is then applied to the MAIN unit via P1 as the 2nd LO signal.

4-4 LOGIC CIRCUITS

4-4-1 BAND SELECTION DATA (MAIN AND PLL UNITS)

To select the correct bandpass filter and low-pass filter, the CPU outputs the following band selection data from the I/O expander (MAIN unit IC3) depending on the displayed frequency.

The VCO selection data is output from the DDS IC in the PLL unit. The band voltage is produced at R366–R376 and R378 (MAIN unit).

BAND SELECTION DATA

FREQUENCY (MHz)	BPF	BAND VOLTAGE	LPF	vco
0.5–1.59999	B0	7.4 V	L1	-
1.6–1.99999	B1	7.4 V	L.I	VCO1
2.0-3.99999	B2	6.1 V	L2	VCOI
4.0-7.99999	В3	5.1 V	L3	
8.0-10.99999	B4	0.0 V	L4	VCO2
11.0–14.99999	B5	4.1 V	L4	VCO2
15.0–21.99999	B6	3.2 V	L5	VCO3
22.0-30.00000	B7	2.2 V	L6	VCO4

4-4-2 RIT CONTROL (FRONT UNIT)

The [RIT] control shifts the "RITV" voltage in order to shift the receive frequency. The voltage is applied to the A/D converter section of the CPU (IC1 pin 1). The CPU shifts the N-data for the DDS IC.

4-4-3 CPU (LOGIC UNIT)

The CPU (IC1) contains an 8-bit CMOS CPU, a 32k-byte ROM, a 1k-byte RAM and an LCD driver. A 9.8304 MHz clock is used for rapid operation. The CPU controls the operating frequency, mode, function display, etc. The memory channel information is stored in the CPU using a lithium backup battery which has a normal life of more than 5 years.

The cloning function allows the IC-77 to transfer programmed memory contents to another IC-77. The Icom CI-V network system allows the IC-77 to be remotely controlled by a personal computer using an RS-232C I/O port.

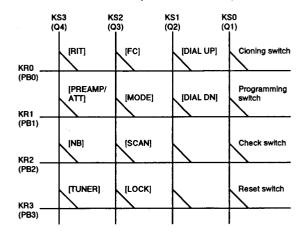
• INPUT PORT ALLOCATIONS

PORT NAME	PIN NUMBER	DESCRIPTION
RITV	1	Input port for the detection of the [RIT] control position.
AVss, AVcc	2, 89	Input reference voltages for internal A/D converters.
OSC1, OSC2	7, 8	I/O ports for the CPU clock oscillation.
RES	9	Input port for the reset signal.
CIVCK	84	Input port for busy signal of the CI-V bus line. This port becomes "HIGH" when the bus line is busy.
CIVI	86	Input port for the CI-V data.
BAKUP	88	Detects the power voltage. When the signal is "LOW," the CPU is backed up.
KR0-KR3	90–93	Input ports for return signals of the key matrix.
KEY	94	Input port for the external antenna tuner (AT-130). This port becomes "LOW" while an external antenna tuner is tuning.
TRC	95	Input port for transmit/receive switching signal. This port becomes "HIGH" while transmitting.
SQLS	96	Input port for the squelch signal. This port becomes "LOW" when squelch is open.
SMV	98	Input port for the detection of the received signal strength.
POV	99	Input port for the detection of the RF output power.
MICV	100	Input port for the detection of [UP]/[DN] switch access.

• OUTPUT PORTS

• OUTPUT PORTS				
PORT NAME	PIN NUMBER	DESCRIPTION		
STAR	14	Outputs a control signal for the external antenna tuner (AT-130). Detects the connection of the external antenna tuner.		
CON0- CON2	15–17	Output control signals for the DDS IC.		
SRES	18	Outputs a reset signal for the DDS IC.		
СК	19	Outputs a clock signal for the DDS IC, PLL IC and output expanders.		
PLLE	20	Outputs an enable signal for the PLL data.		
DATA	21	Outputs serial data to the DDS IC, PLL IC or output expander.		
DSTB	22	Outputs a strobe signal for the DDS IC.		
PSTB	23	Outputs a strobe signal for the BFO PLL.		
вѕтв	24	Outputs a strobe signal for the output expander (IC3) which outputs band signals.		
MSTB	25	Outputs a strobe signal for the output expander (IC8) which outputs mode selection signals.		
KSTB	26	Outputs a strobe signal for the output expander (IC6) which outputs key matrix strobe signals.		
COM1- COM4	35–32	Output LCD common signals.		
SEG1- SEG38	36–73	Output LCD segment signals.		
PODN	77	Outputs a control signal for setting the tuning output power of the AT-130.		
BEEP	78	Outputs a 1 kHz or 500 Hz beep tone.		
PREV	79	Outputs a control signal for the preamplifier circuit.		
ATTV	80	Outputs a control signal for the RF attenuator circuit.		
NBV	81	Outputs a control signal for the noise blanker circuit.		
CSEN	82	Outputs a control signal for tuning transmission.		
CIVO	87	Output port for the CI-V data.		

4-4-4 KEY MATRIX (FRONT UNIT)



4-5 REGULATOR CIRCUITS

Either +8 V, +5 V or -5 V DC is supplied from a corresponding regulator circuit. +8 V, +5 V and -5 V DC are regulated at the following circuits using 13.8 V DC.

(1) +5 V REGULATOR (FRONT UNIT)

+ 5 V DC is provided by a three-terminal voltage regulator (IC4).

(2) +8 V REGULATOR (MAIN UNIT)

+ 8 V DC is provided by a three-terminal voltage regulator (IC17).

(3) - 5 V REGULATOR (MAIN UNIT)

IC16 generates a negative pulse-type voltage by converting the DC input to AC voltages (approx. 6.7 kHz) as a multi-vibrator. The voltage is rectified at D80 and D81, regulated by a Zener diode (D82) and C249, and is then applied to the MAIN and PLL units.

SECTION 5 ADJUSTMENT PROCEDURES

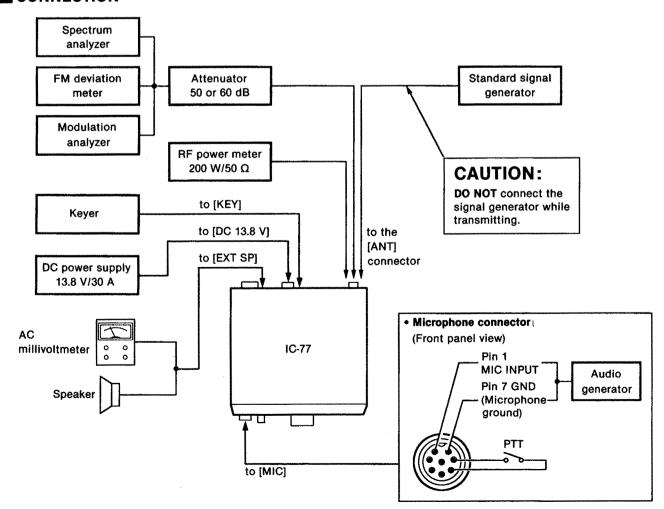
5-1 PREPARATION BEFORE SERVICING

■ REQUIRED TEST EQUIPMENT

EQUIPMENT	GRADE A	ND RANGE	EQUIPMENT	GRADE AND RANGE
DC power supply	Output voltage	: 13.8 V DC	AC millivoltmeter	Measuring range : 10 mV-10 V
	Current capacity	: 30 A or more	DC voltmeter	Input impedance : 50 kΩ/DC or better
RF power meter (terminated type)	Measuring range Frequency range	: 10-200 W	Ammeter	Measurement capability: 1 A and 30 A
(terminated type)	Impedance SWR	: 1.8-30 MHz : 50 Ω : Less than 1.2:1	Audio generator	Frequency range : 300-3000 MHz Output level : 1-500 mV
Frequency counter	Frequency range Frequency accuracy	: 0.1-100 MHz : ±1 ppm or better	Attenuator	Power attenuation : 50 or 60 dB Capacity : 150 W or more
	Sensitivity	: 100 mV or better	Spectrum analyzer	Frequency range : At least 90 MHz
RF voltmeter	Frequency range	: 0.1-100 MHz		Spectrum bandwidth: ±100 kHz or more
	Measuring range	: 0.01-10 V	FM deviation meter	Frequency range : At least 30 MHz
Digital multimeter	Input impedance	: 10 MΩ/DC or better		Measuring range : 0 to ±10 kHz
Standard signal generator (SSG)	Frequency range Output level	: 0.1-100 MHz : 0.1 μV-32 mV	Modulation analyzer	Frequency range : At least 30 MHz Measuring range : 0-100%
, ,	(-		External speaker	Impedance : 8 Ω
Distortion meter	Frequency range Measuring range	: 1 kHz±10% : 1-100%	,	Max. input power : 5 W
Oscilloscope	Frequency range Measuring range	: DC-20 MHz : 0.01-10 V		

CW: Clockwise CCW: Counterclockwise

CONNECTION



5-2 PLL ADJUSTMENT

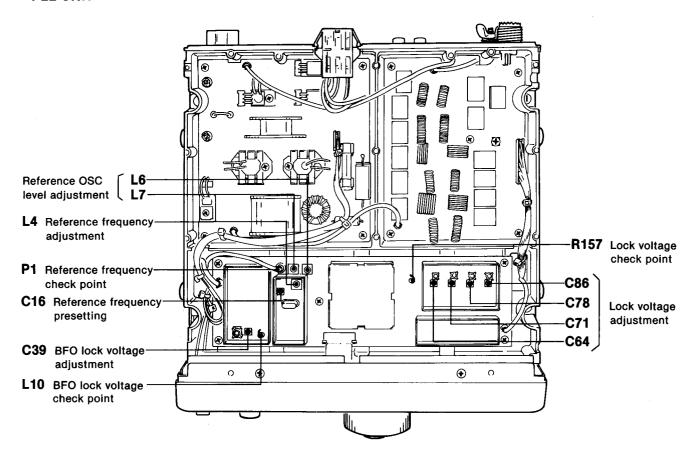
ADJUSTME	ADJUSTMENT ADJUSTMENT CONDI		MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSTME	NI	ADJUSTMENT CONDITIONS	UNIT LOCATION		VALUE	UNIT	ADJUST
REFERENCE FREQUENCY	1	Displayed frequency: 14.1000 MHz Mode : USB Terminate P1 with a 50 Ω resistor. Receiving	PLL	Connect the frequency counter to P1.	Preset to center as shown below.	PLL	C16
	2				64.0000 MHz		L4
	3			Connect the RF voltmeter to P1.	Maximum level		L6, L7
	4	After adjustment, remove the resistor	from P1 a	and re-plug P1.			
BFO PLL LOCK VOLTAGE	1	Displayed frequency: 14.0000 MHz Mode : LSB Receiving	PLL	Connect the digital multimeter or oscilloscope to L10.	1.9 V DC	PLL	C39
LOCK VOLTAGE	1	Displayed frequency: 7.9999 MHz Mode : USB Receiving	PLL	Connect the digital multimeter or oscilloscope to R157.	6.0 V DC	PLL	C64
	2	Displayed frequency: 14.9999 MHz			6.0 V DC		C71
	3	Displayed frequency: 21.9999 MHz			6.0 V DC		C78
	4	Displayed frequency: 30.0000 MHz			6.0 V DC		C86
	5	Displayed frequency: 0.5000 MHz, 8.0000 MHz, 15.0000 MHz and 22.0000 MHz			More than 1.7 V DC		Verify

5-3 RECEIVER ADJUSTMENT

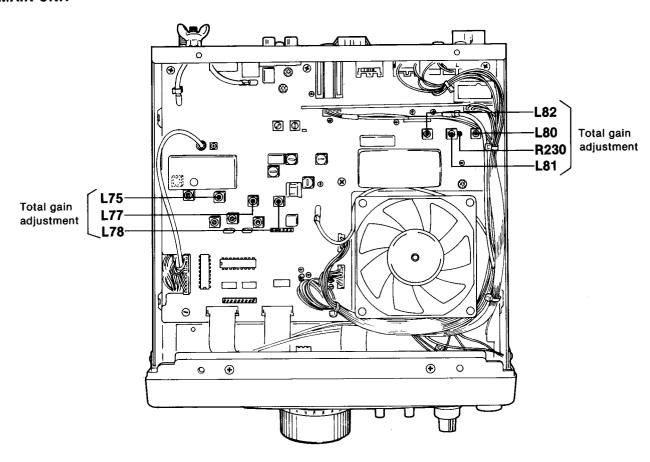
ADJUSTME	NT	ADJUSTMENT CONDITIONS	N	IEASUREMENT	VALUE		STMENT DINT
ADJUSTINE	.41	ADDOG MENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
TOTAL GAIN	1	Displayed frequency: 14.1000 MHz Mode: USB [RIT] switch: OFF [NB] switch: OFF Connect the SSG to the [ANT] connector and set as: Frequency: 14.1010 MHz Level: 1.0 μV* (-107 dBm) Modulation: OFF Receiving	Rear panel	Connect the AC millivoltmeter to the [EXT SP] jack with an 8 Ω load.	Maximum audio output level	MAIN	Adjust in sequence L75, L77, L78, L82, L81, L80
	2	● Set the SSG as: Level : 1.0 mV* (-47 dBm) and OFF			30 dB of AF level difference	MAIN	R230

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

• PLL UNIT



• MAIN UNIT

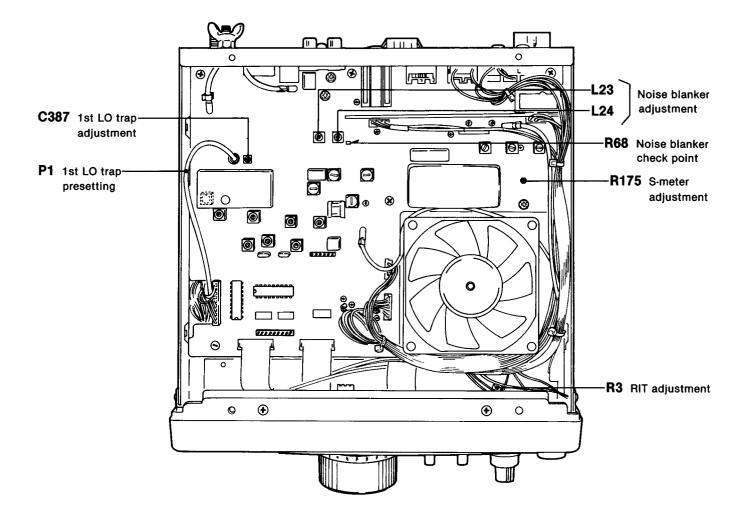


RECEIVER ADJUSTMENT (CONTINUED)

4.0.000		AD INCTMENT CONDITIONS	MEASUREMENT		VALUE		STMENT DINT
ADJUSTME	N I	ADJUSTMENT CONDITIONS UNIT LOCATION		VALUE	UNIT	ADJUST	
S-METER	1	Displayed frequency: 14.1000 MHz Mode: USB [RIT] switch: OFF [NB] switch: OFF PRE AMP] switch: OFF Connect the SSG to the [ANT] connector and set as: Frequency: 14.1000 MHz Level: 25 µV* (-79 dBm) Modulation: OFF Receiving	Function display	S-indicator	5 dots just appear.	MAIN	R175
NOISE BLANKER	1	Displayed frequency: 14.1000 MHz Mode : USB [NB] switch : OFF [PRE AMP] switch : ON Receiving Connect the SSG to the [ANT] connector and set as: Frequency: 14.1000 MHz Level : 3.2 µV* (-97 dBm) Modulation: OFF Apply the following signal to the SSG's output.	MAIN	Connect the oscilloscope to R68.	Adjust for maximum waveform on the oscilloscope.	MAIN	L23, L24
	2	• [NB] switch : ON • Set the SSG as: Level : 10 μV* (-87 dBm) Modulation: OFF • Apply the same signal as shown above.			The noise must be blanked.		Verify
1st LO TRAP	1	Displayed frequency: 14.1000 MHz Mode: USB [PRE AMP] switch: OFF Connect the SSG to P1 (MAIN unit) and set as: Frequency: 64.4550 MHz Level: 3.2 µV* (-97 dBm) Modulation: OFF Receiving	Rear panel	Connect the AC millivoltmeter to the [EXT SP] jack with an 8 Ω load.	Adjust for minimum speaker output.	MAIN	C387
RIT	1	Displayed frequency: 14.1000 MHz Mode: USB Connect the SSG to the [ANT] connector and set as: Level: 50 μV* (-73 dBm) Modulation: OFF [RIT] control: Center [RIT] switch: ON and OFF Receiving	Front panel	Speaker	Same tone pitch on both conditions.	VR	R3

 $[\]hbox{$\star$ This output level of the standard signal generator (SSG) is indicated as SSG's open circuit.}$

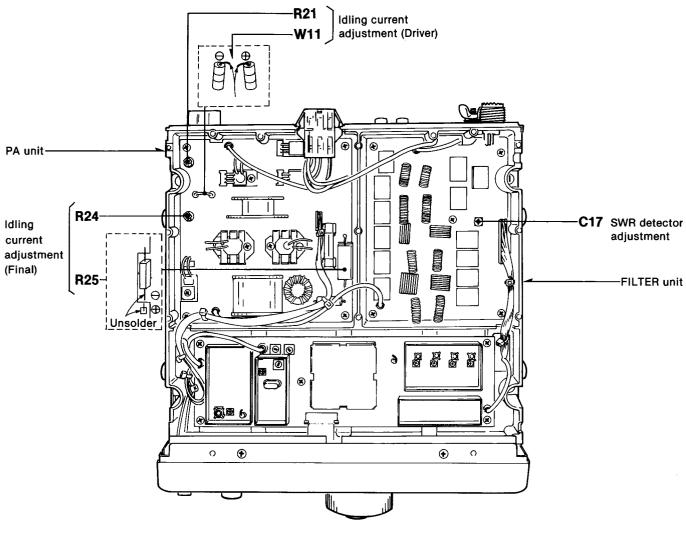
• MAIN AND VR UNITS

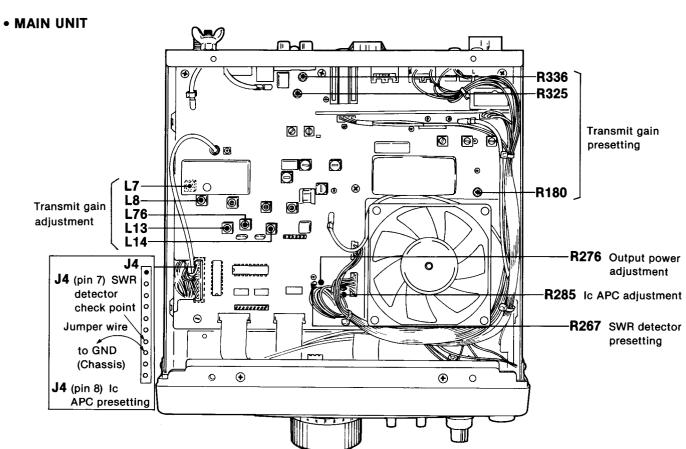


5-4 TRANSMITTER ADJUSTMENT

AD HIGTER		AD HIGHERT CONDITIONS	MEASUREMENT		VALUE		ADJUSTMENT POINT	
ADJUSTME	N I	ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST	
IDLING CURRENT (a) For drive transistors	1	Displayed frequency: 14.1000 MHz Mode : USB [RF PWR] control : Max. CCW [MIC] control : Max. CCW Transmitting	PA	Unsolder W11 and connect the ammeter to the unsoldering points.	100 mA	PA	R21	
® For final transistors	2			Unsolder R25 and connect the ammeter to the unsoldering points.	300 mA		R24	
	3	After adjustment, re-solder W11 and R	25.	1 Annual Management of the Control o			1	
SWR DETECTOR	1	Displayed frequency: 14.1000 MHz Mode : USB [RF PWR] control : Max. CCW Connect the jumper wire between R267 (MAIN unit) and a ground. Connect the audio generator to the		Connect the RF power meter to the [ANT] connector.	100 W	Front	[MIC] control	
	2	[MIC] connector and set as: Level : 30 mV Frequency: 1.5 kHz Transmitting	MAIN	Connect the DC voltmeter to J4 (pin 7).	Minimum	FILTER	C17	
	3	After adjustment, remove the jumper v	vire from	R267.			<u> </u>	
TRANSMIT GAIN			Rear panel	Connect the RF power meter to the [ANT] connector.	50 W	Front panel	[MIC] control	
	2	Connect the audio generator to the [MIC] connector and set as: Level : 3 mV Frequency: 1.5 kHz Transmitting			Maximum	MAIN	L14, L76, L13, L8, L7	
OUTPUT POWER	1	Displayed frequency: 14.1000 MHz Mode: USB [RF PWR] control: Max. CW [MIC] control: Center Connect the audio generator to the [MIC] connector and set as: Level: 30 mV Frequency: 1.5 kHz Transmitting	Rear panel	Connect the RF power meter to the [ANT] connector.	100 W	MAIN	R276	
Ic APC	1	Displayed frequency: 14.1000 MHz Mode: USB [RF PWR] control: Max. CW [MIC] control: Center Connect the jumper wire between J4 (pin 8, MAIN unit) and a ground. Connect the audio generator to the [MIC] connector and set as: Level: 30 mV Frequency: 1.5 kHz Transmitting	Rear panel	Connect the ammeter between the DC power supply and IC-77.	22 A	MAIN	R285	

• PA AND FILTER UNITS

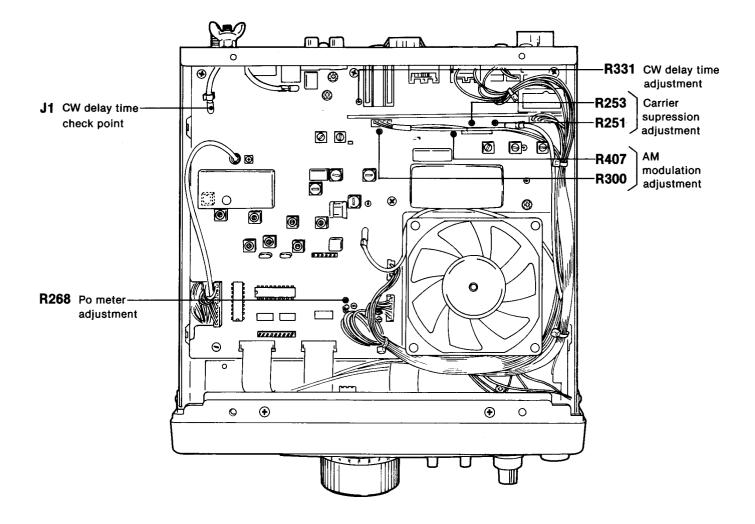




TRANSMITTER ADJUSTMENT (CONTINUED)

ADJUSTME	·NT	AD HISTMENT CONDITIONS	MEASUREMENT MENT CONDITIONS		VALUE	ADJUSTMENT POINT	
ADJUSTME	.14 1	ADJUSTMENT CONDITIONS UNIT LOCATION Displayed free recent 14 1000 MHz. Rose Connect the RE		VALUE	UNIT	ADJUST	
Po METER	1	Displayed frequency: 14.1000 MHz Mode : USB Connect the audio generator to the	Rear panel	Connect the RF power meter to the [ANT] connector.	85 W	Front panel	[RF PWR] control
	2	[MIC] connector and set as: Level : 30 mV Frequency : 1 kHz • Transmitting	Function display	RF indicator	8 dots just appear.	MAIN	R268
CARRIER SUPPRESSION	1	Displayed frequency: 14.1000 MHz Mode: USB [MIC] control: Max. CCW Apply no signal to the [MIC] connector. Transmitting	Rear panel	Connect the spectrum analyzer to the [ANT] connector via the attenuator.	Minimum carrier level (Less than -40 dB)	MAIN	R251, R253 (Alternate adjustment)
AM MODULATION (#02 only)	4	Displayed frequency: 14.1000 MHz Mode: AM R300 (MAIN unit): Center [RF PWR] control: Max. CW [MIC] control: Center Connect the audio generator to the [MIC] connector and set as: Level: 3 mV Frequency: 1 kHz Transmitting	Rear panel	Connect the modulation analyzer to the [ANT] connector via the attenuator.	70% modulation	MAIN	R407
	2	Set the audio generator as: Level : 30 mV Frequency: 1 kHz			90% modulation		R300
CW DELAY TIME (#02 only)	1	Displayed frequency: 14.1000 MHz Mode: CW [RF PWR] control: Max. CW Connect a keyer to the [KEY] jack and key down.	MAIN	Connect the oscilloscope to J1 and the keyer.	Adjust as follows: Keying J1 10 msec.	MAIN	R331

• MAIN UNIT



SECTION 6 PARTS LIST

[CHASSIS PARTS]

W9 89	900004360	CABLE	OPC-424	
W10 89	900004360	CABLE	OPC-424	
W11 89	900004360	CABLE	OPC-424	

[FRONT UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION
IC1 IC2 IC3 IC4 IC5 IC6	1140003960 1130005720 1110001550 1180000420 1130007040 1130000830	S. IC S. IC S. IC S. IC S. IC S. IC	HD6433834A04H TC7W04F (TE12L) S-8054ALB-LM-T1 TA78L05F (TE12R) TC7W32F (TE12L) μPD4094BG-T1
Q1 Q2 Q3 Q4 Q5 Q8 Q9	1510000510 1530002060 1530002060 1520000200 1530002060 1530002060 1510000510	S. TRANSISTOR	2SC4081 T107 R 2SB798-T2 DK 2SC4081 T107 R 2SC4081 T107 R
D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D14 D15 D16 D17 D18 D21 D22 D23	116000060 116000060 116000060 116000050 116000050 116000050 116000050 116000050 116000050 116000060 116000060 116000060 116000060 116000060 116000060 116000060 116000060 116000060	S. DIODE	DAN202U T107 DAN202U T107 DAN202U T107 DAN202U T107 DAP202U T107 DAP202U T107 DAP202U T107 DAP202U T107 DAP202U T107 DAP202U T107 DAN202U T107
X1	6050008160	S. XTAL	CR-410
L1 L2 L3 L4 L5 L6	6180000990 6200003260 6200003260 6200003260 6200003260 6200003260 6200003260	COIL S. COIL	LAL 04NA 101K NL 322522T-101J NL 322522T-101J NL 322522T-101J NL 322522T-101J NL 322522T-101J NL 322522T-101J
R1 R2 R3 R4 R5 R6	7030003800 7030003500 7030003560 7030003560 7030003560 7030003640	S. RESISTOR S. RESISTOR S. RESISTOR S. RESISTOR S. RESISTOR S. RESISTOR	ERJ3GEYJ 105 V (1 MΩ) ERJ3GEYJ 332 V (3.3 kΩ) ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 473 V (47 kΩ)

[FRONT UNIT]

	ORDER	<u> </u>	
REF. NO.	ORDER NO.		DESCRIPTION
R7	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R8	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R9	7030003560 7510000310	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERT-D2ZHL 802S
R10 R11	7030003400	THERMISTOR S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R12	7030003400	S. RESISTOR	MCR50JZHJ 27 Ω (270)
R13	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R14	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R15	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R16	7030003760	S. RESISTOR	ERJ3GEYJ 474 V (470 kΩ)
R17	7030003440 7030003680	S. RESISTOR S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 104 V (100 kΩ)
R18 R19	7030003880	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R20	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R21	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R22	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R23	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R24	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R25 R26	7030003440 7030003440	S. RESISTOR S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R28	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R29	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R30	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R31	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R32	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R33	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R34 R35	7030003440 7030003640	S. RESISTOR S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R36	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R37	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R38	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R40	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
·R41	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R42 R43	7030003800 7030003440	S. RESISTOR S. RESISTOR	ERJ3GEYJ 105 V (1 MΩ) ERJ3GEYJ 102 V (1 kΩ)
R44	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R45	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R46	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R47	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R48	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R49 R50	7030003320 7030003320	S. RESISTOR S. RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 101 V (100 Ω)
R51	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R52	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R53	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R54	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R55	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R56 R57	7030003480 7030003640	S. RESISTOR S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R58	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R59	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R60	7210002190	VARIABLE	EVU-FLAEA4 B14 (10KB)
R61	7210002190	VARIABLE	[RF PWR] EVU-FLAEA4 B14 (10KB) [MIC]
R62	7030003440	S. RESISTOR	[MIC] ERJ3GEYJ 102 V (1 kΩ)
R63	7030003440	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R64	7030001140	S. RESISTOR	MCR50JZHJ 120 Ω (121)
R65	7030001140	S. RESISTOR	MCR50JZHJ 120 Ω (121)
R66	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R67 R68	7030003400 7030003560	S. RESISTOR S. RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 103 V (10 kΩ)
R69	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R71	7030003500	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R72	7030003590	S. RESISTOR	ERJ3GEYJ 183 V (18 kΩ)
R73	7030003540	S. RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)
R74	7030003620	S. RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
R75 R77	7030003640 7030003640	S. RESISTOR S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R78	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
		- · · – - · · · · · · · · · · · · · · · · · · 	

[FRONT UNIT]

REF.	ORDER NO.	D	ESCRIPTION
R79	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R80	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R94	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
C1	4030006620	S. CERAMIC	C1608 SL 1H 120J-T-A
C2	4030006620	S. CERAMIC	C1608 SL 1H 120J-T-A
C3 C4	4030008630 4030008630	S. CERAMIC S. CERAMIC	C1608 JF 1C 104Z-T-A C1608 JF 1C 104Z-T-A
C5	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A
C6	4510004590	ELECTROLYTIC	16 MV 470 HC
C7 C8	4510003910 4030008630	S. CERAMIC	16 MV 47 HW C1608 JF 1C 104Z-T-A
C9	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A
C10	4510003910 4030009000	S. CERAMIC	16 MV 47 HW C2012 JB 1C 224K-T-A
C11 C12	4030009000	S. CERAMIC	C1608 SL 1H 101J-T-A
C13	4030006750	S. CERAMIC	C1608 SL 1H 101J-T-A
C14 C15	4030006750 4030006750	S. CERAMIC S. CERAMIC	C1608 SL 1H 101J-T-A C1608 SL 1H 101J-T-A
C16	4030006750	S. CERAMIC	C1608 SL 1H 101J-T-A
C17	4030006750	S. CERAMIC	C1608 SL 1H 101J-T-A
C18	4030006880 4030006880	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A
G21	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C22	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A
C23 C24	4030006880 4030006880	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A
C25	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C26	4030006880 4030006880	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A
C27 C28	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C29	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C30 C31	4030006880 4030006750	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C1608 SL 1H 101J-T-A
C32	4030006730	S. CERAMIC	C1608 JB 1H 472K-T-A
C33	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C34 C35	4030006880 4030006880	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A
C36	4030006750	S. CERAMIC	C1608 SL 1H 101J-T-A
C37	4030006750	S. CERAMIC	C1608 SL 1H 101J-T-A
C38 C39	4030006750 4030006750	S. CERAMIC S. CERAMIC	C1608 SL 1H 101J-T-A C1608 SL 1H 101J-T-A
C40	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C41 C42	4030006880 4510003830	S. CERAMIC ELECTROLYTIC	C1608 JB 1H 472K-T-A 50 MV R47 SW
C43	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C44	4510004990	ELECTROLYTIC	16 MV 100 HC C1608 JB 1H 472K-T-A
C45 C46	4030006880 4030008630	S. CERAMIC S. CERAMIC	C1608 JF 1C 104Z-T-A
C47	4030008630	S. CERAMIC	C1608 JF 1C 104Z-T-A
C48 C49	4030008630 4030008630	S. CERAMIC S. CERAMIC	C1608 JF 1C 104Z-T-A C1608 JF 1C 104Z-T-A
U49	+050000000	J. OLIMINIO	01000 01 10 1042-1-A
	F000000000	1.00	LD DUESSZEZ /E 5000\
DS1 DS2	5030000980 5080000305	LCD LAMP	LD-BU5637EZ (E-5806) HRT-3290A-F
DS3	5080000305	LAMP	HRT-3290A-F
DS4	5080000305	LAMP	HRT-3290A-F
S1	2260000080	SWITCH	SKHHAM024A
S2 S3	2260000080 2260000080	SWITCH	SKHHAM024A SKHHAM024A
S4	2260000080	SWITCH	SKHHAM024A
S5	2260000080	SWITCH	SKHHAM024A [FC]
S6 S7	2260000080 2260000080	SWITCH	SKHHAM024A [MODE] SKHHAM024A [SCAN]
S8	2260000080	SWITCH	SKHHAM024A [LOCK]
S9	2260000080	SWITCH	SKHHAM024A [RIT]
S10	2260000080	SWITCH	SKHHAM024A [PREAMP/ATT]
S11	2260000080	SWITCH	SKHHAM024A [NB]
S12 S13	2260000080 2260002010	SWITCH	SKHHAM024A [TUNER] MSR5-2#1 [POWER]
L ³¹³	2200002010	3411011	monoral hours

[FRONT UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION
BT1	3020000020	LITHIUM	BR2032-1T2
SP1	2510000670	SPEAKER	VS-50-0827
J1	6510016030	CONNECTOR	52089-1620
J2	6510016030	CONNECTOR	52089-1620
J3	6510016030	CONNECTOR	52089-1620
J5	6510003440	CONNECTOR	B08B-EH-S
J10	6510006060	CONNECTOR	P-422
W2	7120000380	JUMPER	JPW 01 R-01
W3	7120000380	JUMPER	JPW 01 R-01
EP1	0910039463	PCB	B 3859C (FRONT)
EP3	6910007700	E.OTHER	HLJ0999-01-470

[VR UNIT]

REF. NO.	ORDER NO.	ſ	DESCRIPTION
R1	7210001360	VARIABLE	RK097111004NA (10KB) [RIT]
R2	7210001070	VARIABLE	RK0972210001B (10KB/10KA) [SQL/AF]
R3	7310000830	TRIMMER	RV-183 (RH0652C14J0FB) 103
J1	6510003510	CONNECTOR	S03B-EH-S
EP1	0910039441	PCB	B 3862A (VR)

[JACK UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION
R1 R2	7010003280 7010003280	RESISTOR RESISTOR	ELR20J 100 Ω ELR20J 100 Ω
J1 J3	6450001250 6510009930	CONNECTOR CONNECTOR	HLJ4306-01-3070 [PHONES] PD054-08M
P2	6510003680	CONNECTOR	EHR-08
EP1	0910039432	РСВ	B 3863B (JACK)

[MIC BOARD]

REF. NO.	ORDER NO.	DESCRIPTION		
J1	6510000190	CONNECTOR FM214-8SS (P) [MIC]		

[SENSOR BOARD]

REF. NO.	ORDER NO.	DESCRIPTION		
S1	2210000210	SWITCH	SRBU1C005A [CHANNEL SELECTOR]	
J1	6510003520	CONNECTOR	S04B-EH-S	

[MAIN UNIT]

REF. NO.	ORDER NO.	DESCRIPTION		
IC1	1120000970	lic	M54562P	
IC2	1120002410	S. IC	LB1721M-TER	
IC3	1130000830	S. IC	μPD4094BG-T1	
IC5	1130001250	S. IC	μPD4066BG-T1	
IC6	1110000890	IC	μPC1241H	
IC7	1120000970	lC .	M54562P	
IC8	1130000830	S. IC	μPD4094BG-T1	
IC9	1110000960	S. IC	NJM4558M (T1)	
IC10	1110001320	IC	μPC1037HA	
IC11	1110001320	IC	μPC1037HA	
IC13	1130001910	S. IC	μPD4011BG-T1	
IC14	1110000960 1110000960	S. IC S. IC	NJM4558M (T1) NJM4558M (T1)	
IC15 IC16	1110000960	I S. IC	BA222-V	
IC17	1180000470	ic	NJM7808A	
IC17	1110002680	S. IC	NJM2902M-T1	
1018	1110002000	3.10	1401412902141-11	
Q1	1530003150	S. TRANSISTOR	2SC4673D-TD	
Q2	1580000600	S. FET	3SK126-O (TE85R)	
Q3	1580000600	S. FET	3SK126-O (TE85R)	
Q4	1560000560	S. FET	2SK882-GR (TE85L)	
Q5	1530003150	S. TRANSISTOR	2SC4673D-TD	
Q6	1590000680	S. TRANSISTOR	DTC114EU T107 DTC114EU T107	
Q7	1590000680 1560000560	S. FET	2SK882-GR (TE85L)	
Q8 Q9	1580000560	S. FET	3SK126-O (TE85R)	
Q10	1560000560	S. FET	2SK882-GR (TE85L)	
Q11	1510000510	S. TRANSISTOR	2SA1576 T107 R	
Q12	1560000560	S. FET	2SK882-GR (TE85L)	
Q13	1560000560	S. FET	2SK882-GR (TE85L)	
Q14	1590001330	S. TRANSISTOR	DTA114EU T107	
Q15	1590001330	S. TRANSISTOR	DTA114EU T107	
Q16	1590000680	S. TRANSISTOR	DTC114EU T107	
Q17	1520000200	S. TRANSISTOR	2SB798-T2 DK	
Q18	1590000680	S. TRANSISTOR	DTC114EU T107	
Q21	1590000680	S. TRANSISTOR	DTC114EU T107	
Q22	1560000720	S. FET	2SK2171-4-TD	
Q23	1560000720	S. FET	2SK2171-4-TD	
Q24	1590001330	S. TRANSISTOR	DTA114EU T107 2SC4081 T107 R	
Q25 Q26	1530002060 1560000720	S. FET	2SK2171-4-TD	
Q27	1560000720	S. FET	2SK2171-4-TD	
Q28	15800000720	S. FET	3SK126-O (TE85R)	
Q29	1590000680	S. TRANSISTOR	DTC114EU T107	
Q30	1590001330	S. TRANSISTOR	DTA114EU T107	
Q31	1590000680	S. TRANSISTOR	DTC114EU T107	
Q32	1590000680	S. TRANSISTOR	DTC114EU T107	
Q33	1530002060	S. TRANSISTOR	2SC4081 T107 R	
Q34	1530002060	S. TRANSISTOR	2SC4081 T107 R	
Q35	1530002060	S. TRANSISTOR	2SC4081 T107 R	
Q36	1530002060	S. TRANSISTOR	2SC4081 T107 R	
Q37	1530002060	S. TRANSISTOR	2SC4081 T107 R	
Q38	1590000680	S. TRANSISTOR	DTC114EU T107	
Q39	1530002060	S. TRANSISTOR	2SC4081 T107 R	
Q40	1590001330	S. TRANSISTOR	DTA114EU T107	
Q41	1590000680	S. TRANSISTOR	DTC114EU T107	
Q44	1530002060 1560000560	S. TRANSISTOR	2SC4081 T107 R	
Q45 Q46	1580000560	S. FET S. FET	2SK882-GR (TE85L) 3SK126-O (TE85R)	
V40	1000000000	3. FEI	33K120'0 (1E03N)	

IMAIN UNITI

[MAIN	UNIT]				
REF. NO.	ORDER NO.	D	ESCRIPTION		
Q47	1590000680	S. TRANSISTOR	DTC114EU T107		
Q48	1530002060	S. TRANSISTOR	2SC4081 T107 R		
Q50 Q51	1510000510 1590000680	S. TRANSISTOR	2SA1576 T107 R DTC114EU T107		
Q52	1540000250	S. TRANSISTOR	2SD999-T2 CK		
Q53	1540000250	S. TRANSISTOR	2SD999-T2 CK		
Q54	1540000250	S. TRANSISTOR	2SD999-T2 CK		
Q55	1590000680	S. TRANSISTOR	DTC114EU T107		
Q56	1590000680	S. TRANSISTOR	DTC114EU T107		
Q57	1530003090	S. TRANSISTOR	2SC4213-B (TE85R)		
Q58 Q59	1530002060 1530002060	S. TRANSISTOR	2SC4081 T107 R 2SC4081 T107 R		
Q60	1590000680	S. TRANSISTOR	DTC114EU T107		
Q61	1590001330	S. TRANSISTOR	DTA114EU T107		
Q62	1530002060	S. TRANSISTOR	2SC4081 T107 R		
Q63	1590000680	S. TRANSISTOR	DTC114EU T107		
Q64	1530002060	S. TRANSISTOR	2SC4081 T107 R		
Q65 Q66	1590000680 1540000250	S. TRANSISTOR S. TRANSISTOR	DTC114EU T107 2SD999-T2 CK		
Q67	1530002060	S. TRANSISTOR	2SC4081 T107 R		
Q68	1510000510	S. TRANSISTOR	2SA1576 T107 R		
Q69	1590000680	S. TRANSISTOR	DTC114EU T107		
Q70	1590001330	S. TRANSISTOR	DTA114EU T107		
Q71	1590000680	S. TRANSISTOR	DTC114EU T107		
Q72 Q73	1590001330 1540000250	S. TRANSISTOR	DTA114EU T107 2SD999-T2 CK		
Q74	1530002060	S. TRANSISTOR	2SC4081 T107 R		
Q75	1590000680	S. TRANSISTOR	DTC114EU T107		
Q76	1530003090	S. TRANSISTOR	2SC4213-B (TE85R)		
Q77	1590000680	S. TRANSISTOR	DTC114EU T107		
D1	1790000450	S. DIODE	MA862 (TX)		
D2	1790000450	S. DIODE	MA862 (TX)		
D3	1790000450	S. DIODE	MA862 (TX)		
D4	1790000450	S. DIODE	MA862 (TX) MA862 (TX)		
D5 D6	1790000450 1160000060	S. DIODE S. DIODE	DAN202U T107		
D7	1160000060	S. DIODE	DAN202U T107		
D8	1160000060	S. DIODE	DAN202U T107		
D9	1160000060	S. DIODE	DAN202U T107		
D10	1790000450	S. DIODE	MA862 (TX)		
D11 D15	1790000450 1790000690	S. DIODE S. DIODE	MA862 (TX) HSM88ASR-TR		
D13	1160000050	S. DIODE	DAP202U T107		
D18	1160000060	S. DIODE	DAN202U T107		
D19	1160000050	S. DIODE	DAP202U T107		
D20	1160000060	S. DIODE	DAN202U T107		
D21	1160000060	S. DIODE S. DIODE	DAN202U T107 DAP202U T107		
D22 D23	1160000050 1160000060	S. DIODE	DAP202U T107 DAN202U T107		
D24	1160000050	S. DIODE	DAP202U T107		
D25	1160000060	S. DIODE	DAN202U T107		
D26	1160000060	S. DIODE	DAN202U T107		
D31	1160000060	S. DIODE	DAN202U T107		
D32 D33	1160000060 1790000450	S. DIODE S. DIODE	DAN202U T107 MA862 (TX)		
D35	1790000450	S. DIODE	MA862 (TX)		
D36	1790000450	S. DIODE	MA862 (TX)		
D38	1790000450	S. DIODE	MA862 (TX)		
D41	1790000450	S. DIODE	MA862 (TX)		
D42	1790000450	S. DIODE	MA862 (TX)		
D45 D46	1790000450 1790000450	S. DIODE S. DIODE	MA862 (TX) MA862 (TX)		
D48	1790000450	S. DIODE	MA862 (TX)		
D50	1790000450	S. DIODE	MA862 (TX)		
D53	1790000450	S. DIODE	MA862 (TX)		
D55	1790000450	S. DIODE	MA862 (TX)		
D57	1790000450	S. DIODE	MA862 (TX)		
D59 D61	1160000060 1160000060	S. DIODE S. DIODE	DAN202U T107 DAN202U T107		
D61	1160000000	S. DIODE	DAN202U T107		
D63	1160000050	S. DIODE	DAP202U T107		
D64	1160000060	S. DIODE	DAN202U T107		
D65	1790000690	S. DIODE	HSM88ASR-TR		

[MAIN UNIT]

REF. NO. DESCRIPTION	[ONIT	·	
De8				DESCRIPTION
D70	D67	1160000060	S. DIODE	DAN202U T107
D71	D68	1160000060		
D72			1	
D73	4		1 .	
D74	1		1	
D76 1160000060 S. DIODE DAN202U T107 D80 1160000060 S. DIODE DAN202U T107 D81 1160000060 S. DIODE DAN202U T107 D82 1730000410 S. ZENER RD5.HT2B2 D83 1160000060 S. DIODE DAN202U T107 D84 1160000060 S. DIODE DAN202U T107 D85 1160000060 S. DIODE DAN202U T107 D86 1160000060 S. DIODE DAN202U T107 D87 1160000060 S. DIODE DAN202U T107 D88 1160000060 S. DIODE DAN202U T107 D90 1160000060 S. DIODE DAN202U T107 D91 1160000060 S. DIODE DAN202U T107 D93 1160000060 S. DIODE DAN202U T107 D96 1160000060 S. DIODE DAN202U T107 D97 1160000060 S. DIODE DAN202U T107 D98 116000060 S. DIODE DAN202U T107 D101 116000060	•		1	
D78			1 -	
D80	i .	I .	1	
D81	1	1	1	
D82		1		
D84	1	1730000410	S. ZENER	RD5.1M-T2B2
D85	D83	1160000060	S. DIODE	DAN202U T107
D86		II.	1	
D87			1	
D88 1160000060 S. DIODE DAN202U T107 D89 1160000060 S. DIODE DAN202U T107 D90 1160000060 S. DIODE DAN202U T107 D91 1790000690 S. DIODE DAN202U T107 D96 1160000060 S. DIODE DAN202U T107 D96 1160000060 S. DIODE DAN202U T107 D97 1160000060 S. DIODE DAN202U T107 D98 1160000060 S. DIODE DAN202U T107 D99 1160000060 S. DIODE DAN202U T107 D100 1160000060 S. DIODE DAN202U T107 D102 1160000060 S. DIODE DAN202U T107 D104 1160000060 S. DIODE DAN202U T107 D106 1160000060 S. DIODE DAN202U T107 D101 1160000060 S. DIODE DAN202U T107 D112 1160000060 S. DIODE DAN202U T107 D115 116000060 S. DIODE DAN202U T107 D118 1160000060			1	
D88				
D90	1			
D91		4		
D93 116000060 S. DIODE DAN202U T107 D97 1160000060 S. DIODE DAN202U T107 D98 1160000060 S. DIODE DAN202U T107 D99 1160000060 S. DIODE DAN202U T107 D100 1160000060 S. DIODE DAN202U T107 D101 1160000050 S. DIODE DAN202U T107 D102 1160000060 S. DIODE DAP202U T107 D104 1160000060 S. DIODE DAN202U T107 D106 1160000060 S. DIODE DAN202U T107 D108 1160000060 S. DIODE DAN202U T107 D110 1160000060 S. DIODE DAN202U T107 D112 1160000060 S. DIODE DAN202U T107 D114 1160000060 S. DIODE DAN202U T107 D115 1160000060 S. DIODE DAN202U T107 D116 1160000050 S. DIODE DAP202U T107 D118 1160000050 S. DIODE DAP202U T107 D120 11600				
D97		1160000060	S. DIODE	DAN202U T107
D98			S. DIODE	DAN202U T107
D99	D97	1160000060		DAN202U T107
D100	1	1	1	
D101			1	
D102	1	[1	
D104			1	
D106	1		l .	
D108	1		1	
D110	1			
D112		1		
D115 1160000060 S. DIODE DAN202U T107 D116 1160000050 S. DIODE DAP202U T107 D117 1160000050 S. DIODE DAP202U T107 D118 1160000050 S. DIODE DAP202U T107 D119 1160000050 S. DIODE DAP202U T107 D120 1160000050 S. DIODE DAP202U T107 D121 1160000060 S. DIODE DAN202U T107 D122 1160000060 S. DIODE DAN202U T107 D123 1160000060 S. DIODE DAN202U T107 D124 1790000890 S. DIODE ND433G D125 1730000730 S. ZENER RD5.6M-T2B2 D126 1730000730 S. ZENER RD6.2M-T2B2 D127 1160000060 S. DIODE DAN202U T107 FI1 2010001590 XTAL 64M15B 64.455000M FI2 2020000150 CERAMIC CFJ455K5 (FL-65) L1 6140000060 COIL LR-20 L2 618000990		I .	1	
D116	D114	1160000060	S. DIODE	DAN202U T107
D117	D115	1160000060	S. DIODE	DAN202U T107
D118	D116	1160000050		
D119		1		
D120				
D121				
D122				
D123				
D124				
D126 1730000730 S. ZENER RD6.2M-T2B2 D127 1160000060 S. DIODE DAN202U T107 D128 1160000060 S. DIODE DAN202U T107 FI1 2010001590 XTAL 64M15B 64.455000M (FL-197) FI2 2020000150 CERAMIC CFW455HT CFJ455K5 (FL-65) FI3 2020000210 CERAMIC CFJ455K5 (FL-65) L1 6140000080 COIL LR-20 L2 6180000960 COIL LAL 03NA 102K L3 6200003000 S. COIL NL 322522T-R22J-3 L4 620000310 S. COIL NL 322522T-R27J-3 L5 6200001850 S. COIL NL 322522T-R27J-3 L6 6140002050 COIL LR-224 L7 6150001770 COIL LS-198 L8 6150000990 COIL LS-114 L9 6200003260 S. COIL NL 322522T-R27J-3 L11 6200003260 S. COIL NL 322522T-R22J-3 L12 6200003260 S. COIL NL 322522T-R22J-3 L12 6200003260 S. COIL NL 322522T-R22J-3		I .		
D127 1160000060 S. DIODE DAN202U T107 D128 1160000060 S. DIODE DAN202U T107 FI1 2010001590 XTAL 64M15B 64.455000M (FL-197) FI2 2020000150 CERAMIC CFW455HT CFJ455K5 (FL-65) L1 6140000080 COIL LR-20 L2 6180000960 COIL LAL 03NA 102K L3 6200003000 S. COIL NL 322522T-R22J-3 L4 620000310 S. COIL NL 322522T-R27J-3 L5 6200001850 S. COIL NL 322522T-R6J L6 6140002050 COIL LR-224 L7 6150001770 COIL LS-198 L8 6150000990 COIL LS-114 L9 6200003260 S. COIL NL 322522T-101J L10 6200003000 S. COIL NL 322522T-R22J-3 L11 6200003260 S. COIL NL 322522T-T01J L12 6200003260 S. COIL NL 322522T-T01J L13 6150002430 C	D125	1730000030	S. ZENER	RD5.6M-T2B2
D128 1160000060 S. DIODE DAN202U T107 FI1 2010001590 XTAL 64M15B 64.455000M (FL-197) FI2 2020000150 CERAMIC CFW455HT FI3 2020000210 CERAMIC CFJ455K5 (FL-65) L1 6140000080 COIL LR-20 L2 6180000960 COIL LAL 03NA 102K L3 6200003000 S. COIL NL 322522T-R22J-3 L4 62000031850 S. COIL NL 322522T-R27J-3 L5 6200001850 S. COIL NL 322522T-FR6J L6 6140002050 COIL LS-198 L8 61500001770 COIL LS-198 L8 6150000990 COIL LS-114 L9 6200003260 S. COIL NL 322522T-101J L10 6200003000 S. COIL NL 322522T-R22J-3 L11 6200003260 S. COIL NL 322522T-T01J L12 6200003260 S. COIL NL 322522T-T01J L13 6150002430 COIL	D126	1730000730	S. ZENER	RD6.2M-T2B2
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FI2	FI1	2010001590	XTAL	64M15B 64.455000M
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	L16			
L18 6200003260 S. COIL NL 322522T-101J				
	L18	6200003260	S. COIL	NL 322522T-101J

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L20				DESCRIPTION
L21	L19	6150004080	COIL	LS-468 (C-13958)
L22	L20		1	
L23				
L24			4	
L25			1	
L27	1		l .	
L29	1		1	
L30		1	1	
L31		1	1	
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L38	L36	6200003090	S. COIL	NL 322522T-2R7J-3
L39	4		I .	
L40	1		1	
L41 6200002990 S. COIL NL 322522T-2R2J-3 L42 6200002990 S. COIL NL 322522T-2R2J-3 L43 620000360 S. COIL NL 322522T-R8J-3 L44 6200003050 S. COIL NL 322522T-1R3J-3 L45 6200003080 S. COIL NL 322522T-1R8J-3 L46 6200003070 S. COIL NL 322522T-1R3J-3 L47 6200003080 S. COIL NL 322522T-1R3J-3 L48 6200003280 S. COIL NL 322522T-1R3J-3 L49 6200003300 S. COIL NL 322522T-1RJ-3 L50 6200003300 S. COIL NL 322522T-1R2J-3 L51 6200003300 S. COIL NL 322522T-1R2J-3 L52 6200003050 S. COIL NL 322522T-1R3J-3 L53 6200003280 S. COIL NL 322522T-1R3J-3 L54 6200003030 S. COIL NL 322522T-18J-3 L55 6200003030 S. COIL NL 322522T-18J-3 L55 6200003030 S. COIL NL 322522T-18J-3 L56 6200003030 S. COIL NL 322522T-R8J-3 L57 6200003050 S. COIL NL 322522T-R8J-3 L58 6200003280 S. COIL NL 322522T-R8J-3 L59 6200003250 S. COIL NL 322522T-R8J-3 L60 6200003250 S. COIL NL 322522T-101J L61 6200003250 S. COIL NL 322522T-R3J-3 L62 6200003250 S. COIL NL 322522T-R3J-3 L63 6200003250 S. COIL NL 322522T-R3J-3 L64 6200003010 S. COIL NL 322522T-R3J-3 L65 6200003010 S. COIL NL 322522T-R3J-3 L66 6200003010 S. COIL NL 322522T-R3J-3 L66 6200003010 S. COIL NL 322522T-R3J-3 L66 6200003010 S. COIL NL 322522T-R3J-3 L67 6200003250 S. COIL NL 322522T-R3J-3 L68 6140000640 COIL NL 322522T-R3J-3 L69 6140001540 COIL NL 322522T-R3J-3 L69 6140001540 COIL NL 322522T-R3J-3 L69 6140000640 COIL NL 322522T-R3J-3 L74 615000291 COIL NL 325521-1050 L89 615000291 COI	,			
L42				
L43		1	1	
L45	L43	6200003260	S. COIL	NL 322522T-101J
L46		1		
L47	B .			
L48		1	1	
L49				
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L53	L51	6200003050	S. COIL	NL 322522T-R82J-3
L54		6200003060	1	
L55 6200002980 S. COIL NL 322522T-R56J-3 L56 6200003040 S. COIL NL 322522T-R68J-3 L57 6200003260 S. COIL NL 322522T-R82J-3 L58 6200003250 S. COIL NL 322522T-R39J-3 L60 6200003250 S. COIL NL 322522T-R39J-3 L61 6200003300 S. COIL NL 322522T-R39J-3 L62 620000280 S. COIL NL 322522T-R47J-3 L63 6200003260 S. COIL NL 322522T-R27J-3 L64 6200003010 S. COIL NL 322522T-R27J-3 L65 6200003010 S. COIL NL 322522T-R33J-3 L66 6200003200 S. COIL NL 322522T-R33J-3 L67 6200003250 S. COIL NL 322522T-R39J-3 L66 6200003200 S. COIL NL 322522T-R39J-3 L67 6200003250 S. COIL NL 322522T-R39J-3 L69 6140001540 COIL LR-86 L71 6200003210 COIL LR-248 L71 </td <td></td> <td>i</td> <td>1</td> <td></td>		i	1	
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L70				
L71 6200003010 S. COIL NL 322522T-R27J-3 L72 6140002050 COIL LR-224 L73 6110001650 COIL LA-248 L74 6200003140 S. COIL NL 322522T-150J L75 6150001770 COIL LS-198 L76 6150002430 COIL LS-254 L77 6150002430 COIL LS-254 L78 61500002430 COIL LS-254 L79 6170000140 COIL LW-15 L80 6150002291 COIL LS-450 L81 6150002291 COIL LS-451 L82 6150002291 COIL LS-450 L83 6180000960 COIL LAL 03NA 102K L84 6180000960 COIL LAL 03NA 102K L85 6180000960 COIL LAL 03NA 102K L88 6910003570 COIL 2943-66663 L89 6910000670 COIL BTO1RN1-A61-001 L91 6180				
L72 6140002050 COIL LR-224 L73 6110001650 COIL LA-248 L74 6200003140 S. COIL NL 322522T-150J L75 6150001770 COIL LS-198 L76 6150002430 COIL LS-254 L77 6150002430 COIL LS-254 L78 615000290 COIL LS-114 L79 6170000140 COIL LW-15 L80 6150002291 COIL LS-450 L81 6150002291 COIL LS-451 L82 6150002291 COIL LS-450 L83 618000960 COIL LAL 03NA 102K L84 618000960 COIL LAL 03NA 102K L86 618000960 COIL LAL 03NA 102K L88 6910003570 COIL 2943-66663 L89 6910003570 COIL BT01RN1-A61-001 L91 618000960 COIL BT01RN1-A61-001 L92 6180000960			ł	
L74 6200003140 S. COIL NL 322522T-150J L75 6150001770 COIL LS-198 L76 6150002430 COIL LS-254 L77 6150002430 COIL LS-254 L78 615000290 COIL LS-114 L79 6170000140 COIL LW-15 L80 6150002291 COIL LS-450 L81 6150002291 COIL LS-450 L82 6150002291 COIL LS-450 L83 6180000960 COIL LAL 03NA 102K L84 6180000960 COIL LAL 03NA 102K L86 6180000960 COIL LAL 03NA 102K L87 6180000960 COIL LAL 03NA 102K L88 6910003570 COIL 2943-66663 L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L92 <td< td=""><td>L72</td><td>6140002050</td><td>COIL</td><td>LR-224</td></td<>	L72	6140002050	COIL	LR-224
L75 6150001770 COIL LS-198 L76 6150002430 COIL LS-254 L77 6150002430 COIL LS-254 L78 6150000990 COIL LS-114 L79 6170000140 COIL LW-15 L80 6150002291 COIL LS-450 L81 6150002291 COIL LS-451 L82 6150002291 COIL LS-450 L83 6180000960 COIL LAL 03NA 102K L84 6180000960 COIL LAL 03NA 102K L86 6180000960 COIL LAL 03NA 102K L87 6180000960 COIL LAL 03NA 102K L88 6910003570 COIL 2943-66663 L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 620			l	
L76 6150002430 COIL LS-254 L77 6150002430 COIL LS-254 L78 6150000990 COIL LS-114 L79 6170000140 COIL LW-15 L80 6150002291 COIL LS-450 L81 6150002291 COIL LS-450 L82 6150002291 COIL LS-450 L83 6180000960 COIL LAL 03NA 102K L84 6180000960 COIL LAL 03NA 102K L86 6180000960 COIL LAL 03NA 102K L87 6180000960 COIL LAL 03NA 102K L88 6910003570 COIL 2943-666663 L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J			l .	
L77 6150002430 COIL LS-254 L78 6150000990 COIL LS-114 L79 6170000140 COIL LW-15 L80 6150002291 COIL LS-450 L81 6150002291 COIL LS-451 L82 6150002291 COIL LS-450 L83 6180000960 COIL LAL 03NA 102K L84 6180000960 COIL LAL 03NA 102K L86 6180000960 COIL LAL 03NA 102K L87 6180000960 COIL LAL 03NA 102K L88 6910003570 COIL 2943-666663 L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J			l	
L78 6150000990 COIL LS-114 L79 6170000140 COIL LW-15 L80 6150002291 COIL LS-450 L81 6150002291 COIL LS-451 L82 6150002291 COIL LS-450 L83 6180000960 COIL LAL 03NA 102K L84 6180000960 COIL LAL 03NA 102K L87 6180000960 COIL LAL 03NA 102K L88 6910003570 COIL 2943-666663 L89 6910003570 COIL 2943-666663 L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J			1	
L80 6150002291 COIL LS-450 L81 6150002271 COIL LS-451 L82 6150002291 COIL LS-450 L83 6180000960 COIL LAL 03NA 102K L84 6180000960 COIL LAL 03NA 102K L87 6180000960 COIL LAL 03NA 102K L88 6910003570 COIL LAL 03NA 102K L89 6910003570 COIL 2943-666663 L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J			Í	
L81 6150002271 COIL LS-451 L82 6150002291 COIL LS-450 L83 6180000960 COIL LAL 03NA 102K L84 6180000960 COIL LAL 03NA 102K L86 6180000960 COIL LAL 03NA 102K L87 6180000960 COIL LAL 03NA 102K L88 6910003570 COIL 2943-666663 L89 6910003570 COIL 2943-666663 L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J				
L82 6150002291 COIL LS-450 L83 6180000960 COIL LAL 03NA 102K L84 6180000960 COIL LAL 03NA 102K L86 6180000960 COIL LAL 03NA 102K L87 6180000960 COIL LAL 03NA 102K L88 6910003570 COIL 2943-66663 L89 6910003570 COIL 2943-666663 L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J				
L83 6180000960 COIL LAL 03NA 102K L84 6180000960 COIL LAL 03NA 102K L86 6180000960 COIL LAL 03NA 102K L87 6180000960 COIL LAL 03NA 102K L88 6910003570 COIL 2943-666663 L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J				
L84 6180000960 COIL LAL 03NA 102K L86 6180000960 COIL LAL 03NA 102K L87 6180000960 COIL LAL 03NA 102K L88 6910003570 COIL 2943-666663 L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J				
L86 6180000960 COIL LAL 03NA 102K L87 6180000960 COIL LAL 03NA 102K L88 6910003570 COIL 2943-666663 L89 6910003570 COIL 2943-666663 L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J				
L88 6910003570 COIL 2943-666663 L89 6910003570 COIL 2943-666663 L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J				
L89 6910003570 COIL 2943-666663 L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J				
L90 6910000670 COIL BT01RN1-A61-001 L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J				
L91 6180000960 COIL LAL 03NA 102K L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J				
L92 6180000960 COIL LAL 03NA 102K L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J				
L94 6200003260 S. COIL NL 322522T-101J L95 6200003260 S. COIL NL 322522T-101J				
1				NL 322522T-101J
L96 6200003260 S. COIL NL 322522T-101J	1			
	FAQ	oz00003260	o. CUIL	NF 255251-1017

[MAIN UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
L97	6910000670	COIL	BT01RN1-A61-001
L98	6910000670	COIL	BT01RN1-A61-001
L99	6200003260	S. COIL	NL 322522T-101J
L100	6200003260	S. COIL	NL 322522T-101J
L102	6910000670	COIL	BT01RN1-A61-001
L103	6200003260	S. COIL S. COIL	NL 322522T-101J NL 322522T-101J
L104 L105	6200003260 6910000670	COIL	BT01RN1-A61-001
L105	6200003260	S. COIL	NL 322522T-101J
L107	6180002190	COIL	LAL 02NA R47K
L108	6180000690	COIL	LAL 03NA R22M
R1	7030003380	S. RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R2	7030003220	S. RESISTOR	ERJ3GEYJ 150 V (15 Ω)
R3	7030003380	S. RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R4	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R5	7030003550	S. RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ)
R6	7030004040	S. RESISTOR	ERJ3GEYJ 4R7 V (4.7 Ω)
R7	7030003460	S. RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)
R8	7030003290	S. RESISTOR	ERJ3GEYJ 560 V (56 Ω)
R9 R10	7030003680 7030003680	S. RESISTOR S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)
R10	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R12	7030003600	S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R13	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R14	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R15	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R16	7030003340	S. RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R17	7030003500	S. RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
R18	7030003290	S. RESISTOR	ERJ3GEYJ 560 V (56 Ω)
R19	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R20	7030003530	S. RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)
R21 R22	7030003200 7030003420	S. RESISTOR S. RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 681 V (680 Ω)
R23	7030003420	S. RESISTOR	ERJ3GEYJ 560 V (56 Ω)
R24	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R25	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R26	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R27	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R28	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R29	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R30	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R31 R32	7030003380	S. RESISTOR S. RESISTOR	ERJ3GEYJ 331 V (330 Ω) ERJ3GEYJ 150 V (15 Ω)
R33	7030003220	S. RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R34	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R35	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R36	7310002760	S. TRIMMER	RV-152 (RH03A3AJ4X0HA) 223
R37	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R38	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R39	7030003800	S. RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
R40	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R41	7510000260	THERMISTOR	ERT-D2ZGL 102S
R42	7030003560	S. RESISTOR S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 103 V (10 kΩ)
R43 R44	7030003560 7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R44 R45	7030003400	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R46	7030003440	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R47	7030003360	S. RESISTOR	ERJ3GEYJ 221 V (220 Ω)
R48	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R49	7030003470	S. RESISTOR	ERJ3GEYJ 182 V (1.8 kΩ)
R50	7030003760	S. RESISTOR	ERJ3GEYJ 474 V (470 kΩ)
R51	7030003360	S. RESISTOR	ERJ3GEYJ 221 V (220 Ω)
R52	7030003320 7030003540	S. RESISTOR S. RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 682 V (6.8 kΩ)
R53 R54	7030003540	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R55	7030003280	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
	ł	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R56	7030003400		• -•
R56 R57	7030003400 7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
	1	1	ERJ3GEYJ 223 V (22 kΩ)
R57 R58 R59	7030003320 7030003600 7030003680	S. RESISTOR S. RESISTOR S. RESISTOR	ERJ3GEYJ 223 V (22 k Ω) ERJ3GEYJ 104 V (100 k Ω)
R57 R58	7030003320 7030003600	S. RESISTOR S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ)

[MAIN	UNIT				
REF. NO.	ORDER NO.		DESCRIPTION		
R62	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)		
R63	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		
R64	7030003640 7030003400	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 471 V (470 Ω)		
R65 R66	7030003400	S. RESISTOR S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		
R67	7030003440	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)		
R68	7010004450	RESISTOR	R20J 100 kΩ		
R69	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		
R70	7030003560 7030003530	S. RESISTOR S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 562 V (5.6 kΩ)		
R71 R72	7030003330	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)		
R73	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		
R74	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		
R75	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		
R76	7030003530 7030003320	S. RESISTOR S. RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ) ERJ3GEYJ 101 V (100 Ω)		
R78	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		
R79	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		
R80	7030003500	S. RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)		
R81	7030003530	S. RESISTOR S. RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ) ERJ3GEYJ 101 V (100 Ω)		
R82 R83	7030003320 7030003500	S. RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)		
R84	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		
R85	7030003620	S. RESISTOR	ERJ3GEYJ 333 V (33 kΩ)		
R86	7030003620	S. RESISTOR	ERJ3GEYJ 333 V (33 kΩ)		
R87	7030003380 7030003220	S. RESISTOR S. RESISTOR	ERJ3GEYJ 331 V (330 Ω) ERJ3GEYJ 150 V (15 Ω)		
R88 R89	7030003220	S. RESISTOR	ERJ3GEYJ 331 V (330 Ω)		
R90	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		
R91	7030003380	S. RESISTOR	ERJ3GEYJ 331 V (330 Ω)		
R92	7030003220	S. RESISTOR	ERJ3GEYJ 150 V (15 Ω)		
R93 R94	7030003380 7030003480	S. RESISTOR S. RESISTOR	ERJ3GEYJ 331 V (330 Ω) ERJ3GEYJ 222 V (2.2 kΩ)		
R95	7030003480	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		
R96	7010003830	RESISTOR	R20J 1 Ω		
R97	7010003280	RESISTOR	ELR20J 100 Ω		
R98	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 k Ω) ERJ3GEYJ 391 V (390 Ω)		
R99 R100	7030003390 7030003290	S. RESISTOR S. RESISTOR	ERJ3GEYJ 560 V (56 Ω)		
R102	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)		
R103	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		
R104	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		
R105 R106	7030003240 7030003280	S. RESISTOR S. RESISTOR	ERJ3GEYJ 220 V (22 Ω) ERJ3GEYJ 470 V (47 Ω)		
R107	7030003200	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)		
R108	7030003240	S. RESISTOR	ERJ3GEYJ 220 V (22 Ω)		
R109	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)		
R110	7030003640 7030003640	S. RESISTOR S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)		
R111 R112	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		
R113	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		
R114	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)		
R115	7030003400	S. RESISTOR S. RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 471 V (470 Ω)		
R116 R117	7030003400 7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		
R118	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		
R119	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		
R120	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		
R121 R122	7030003480 7030003480	S. RESISTOR S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)		
R123	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		
R124	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		
R125	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)		
R126 R127	7030003400 7030003400	S. RESISTOR S. RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 471 V (470 Ω)		
R127	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)		
R129	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)		
R130	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)		
R131	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 471 V (470 Ω)		
R132 R133	7030003400 7030003400	S. RESISTOR S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)		
R134	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)		
R135	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		
R136	7030003440 7030003440	S. RESISTOR S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)		
R137	7030003440	J. RESISTON	FINANCIA INC A (LUXX)		

[MAIN UNIT]

REF.	ORDER NO.		DESCRIPTION
	1	e prejetop	ERJ3GEYJ 473 V (47 kΩ)
R138 R139	7030003640 7030003640	S. RESISTOR S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R140	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R141	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R142	7030003240	S. RESISTOR	ERJ3GEYJ 220 V (22 Ω)
R143	7030003360	S. RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 221 V (220 Ω)
R144 R145	7030003360	S. RESISTOR S. RESISTOR	ERJ3GEYJ 4R7 V (4.7 Ω)
R146	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R147	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R148	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R149	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R150	7030003440	S. RESISTOR S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 103 V (10 kΩ)
R151 R152	7030003560 7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R153	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R154	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R155	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R156	7030003240	S. RESISTOR	ERJ3GEYJ 220 V (22 Ω)
R157	7030003470	S. RESISTOR	ERJ3GEYJ 182 V (1.8 kΩ) ERJ3GEYJ 105 V (1 MΩ)
R158 R159	7030003800	S. RESISTOR S. RESISTOR	ERJ3GEYJ 105 V (1 M2)
R160	7030003320	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R161	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R162	7030003760	S. RESISTOR	ERJ3GEYJ 474 V (470 kΩ)
R163	7030003600	S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R164	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 103 V (10 kΩ)
R165 R166	7030003560 7030003840	S. RESISTOR S. RESISTOR	ERJ3GEYJ 225 V (2.2 MΩ)
R167	7030003800	S. RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
R168	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R169	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R170	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R171	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERT-D2ZGL 202S
R172 R173	7510000320 7030003800	THERMISTOR S. RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
R174	7030003550	S. RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ)
R175	7310002740	S. TRIMMER	RV-150 (RH03A3A14X0FC) 103
R176	7030003540	S. RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)
R177	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R178 R179	7030003520 7030003520	S. RESISTOR S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)
R180	7310000780	TRIMMER	RH0651CS4J25A (47K)
R181	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R182	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R183	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R184	7030003620 7030003480	S. RESISTOR S. RESISTOR	ERJ3GEYJ 333 V (33 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)
R185 R186	7030003460	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R187	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R188	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R189	7030003240	S. RESISTOR	ERJ3GEYJ 220 V (22 Ω)
R190 R191	7030003680 7030003680	S. RESISTOR S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)
R192	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R193	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R194	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R195	7030003590	S. RESISTOR	ERJ3GEYJ 183 V (18 kΩ)
R196	7030003590	S. RESISTOR	ERJ3GEYJ 183 V (18 kΩ)
R197 R198	7030003570 7030003440	S. RESISTOR S. RESISTOR	ERJ3GEYJ 123 V (12 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R198	7030003440	S. RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
R200	7030003660	S. RESISTOR	ERJ3GEYJ 683 V (68 kΩ)
R201	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R202	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R203	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R204 R205	7030003280 7030004050	S. RESISTOR S. RESISTOR	ERJ3GEYJ 470 V (47 Ω) ERJ3GEYJ 1R0 V (1 Ω)
R206	7010003100	RESISTOR	ELR20J 3.3 Ω
R207	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R208	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R209	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R210 R211	7030003560 7030003560	S. RESISTOR S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 103 V (10 kΩ)
1 2 1 1	, 000000000	J. 112010101	_1000a10 100 V (10 K12)

REF. NO.	ORDER NO.		DESCRIPTION
R212	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R213	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R214	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R215	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R216	7030003380	S. RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R217	7030003540	S. RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)
R218	7030003600	S. RESISTOR S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 221 V (220 Ω)
R219 R220	7030003360	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R221	7010003830	RESISTOR	R20J 1 Ω
R222	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R223	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R224	7030003610	S. RESISTOR	ERJ3GEYJ 273 V (27 kΩ)
R225	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R226	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R227	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R228	7510000240	THERMISTOR	ERT-D2ZGL 332S
R229 R230	7030003560	S. RESISTOR S. TRIMMER	ERJ3GEYJ 103 V (10 kΩ) RV-148 (RH03A3AS3X0DA)
H230	1310002120	3. INIMIMEN	472
R231	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R232	7030003380	S. RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R233	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R234	7030003760	S. RESISTOR	ERJ3GEYJ 474 V (470 kΩ) ERJ3GEYJ 224 V (220 kΩ)
R235 R236	7030003720 7030003560	S. RESISTOR S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R237	7030003500	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R238	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R239	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R240	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R241	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R242	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R243	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R244	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R245	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R246	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R247 R248	7030003440 7030003640	S. RESISTOR S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R249	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R250	7030003450	S. RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
R251	7310002740	S. TRIMMER	RV-150 (RH03A3A14X0FC)
R252	7030003680	S. RESISTOR	103 ERJ3GEYJ 104 V (100 kΩ)
R252 R253	7310003680	S. TRIMMER	RV-150 (RH03A3A14X0FC)
			103
R254	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R255	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R256	7030003320	S. RESISTOR S. RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 103 V (10 kΩ)
R257 R258	7030003560 7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R259	7030003300	S. RESISTOR	ERJ3GEYJ 560 V (56 Ω)
R260	7030003230	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R261	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R262	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R263	7010004410	RESISTOR	R20J 47 kΩ
R264	7030003800	S. RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
R265	7030003580	S. RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
R266	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R267 R268	7010004320 7310002580	RESISTOR S. TRIMMER	R20J 10 kΩ RV-108 (RH03A3A15X05A)
R269	7030003640	S. RESISTOR	104 ERJ3GEYJ 473 V (47 kΩ)
R269	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R271	7030003040	S. RESISTOR	ERJ3GEYJ 274 V (270 kΩ)
R272	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R273	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R274	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R275	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R276	7310002580	S. TRIMMER	RV-108 (RH03A3A15X05A) 104
R278	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R279	7030003730	S. RESISTOR	ERJ3GEYJ 274 V (270 kΩ)
R280	7030003840	S. RESISTOR	ERJ3GEYJ 225 V (2.2 MΩ)
R281	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R282	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)

[MAIN UNIT]

REF.	ORDER NO.		DESCRIPTION	REF.	ORDER NO.		DESCRIPTION
R283	7030003290	S. RESISTOR	ERJ3GEYJ 560 V (56 Ω)	R360	7030003220	S. RESISTOR	ERJ3GEYJ 150 V (15 Ω)
R284	7030003290	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)	R361	7030003220	S. RESISTOR	ERJ3GEYJ 150 V (15 Ω)
R285	7310002740	S. TRIMMER	RV-150 (RH03A3A14X0FC)	R362	7030003220	S. RESISTOR	ERJ3GEYJ 150 V (15 Ω)
			103	R363	7030003220	S. RESISTOR	ERJ3GEYJ 150 V (15 Ω)
R286	7030003620	S. RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	R364	7030003220	S. RESISTOR	ERJ3GEYJ 150 V (15 Ω)
R287	7030003620	S. RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	R365	7030003220	S. RESISTOR	ERJ3GEYJ 150 V (15 Ω)
R288 R289	7030003800 7030003640	S. RESISTOR S. RESISTOR	ERJ3GEYJ 105 V (1 MΩ) ERJ3GEYJ 473 V (47 kΩ)	R366 R367	7030003440 7030003440	S. RESISTOR S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R290	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	R368	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R291	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)	R369	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R292	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	R370	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R293	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	R371	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R294	7010003910	RESISTOR	R20J 4.7 Ω	R372	7030005320	S. RESISTOR	RR0816P-103-D (10 kΩ)
R295	7010004190	RESISTOR	R20J 1 kΩ R20J 4.7 Ω	R373 R374	7030005330 7030005340	S. RESISTOR S. RESISTOR	RR0816P-562-D (5.6 kΩ) RR0816P-332-D (3.3 kΩ)
R296 R297	7010003910 7010004190	RESISTOR RESISTOR	R20J 1 kΩ	R375	7030005350	S. RESISTOR	RR0816P-182-D (1.8 kΩ)
R298	7010003910	RESISTOR	R20J 4.7 Ω	R376	7030005360	S. RESISTOR	RR0816P-751-D (750 Ω)
R299	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	R377	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R300	7310002740	S. TRIMMER	RV-150 (RH03A3A14X0FC)	R378	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 k Ω)
			103	R379	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R301	7030003600	S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	R381	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R302	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 102 V (1 kΩ)	R383 R384	7030003600 7030003760	S. RESISTOR S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 474 V (470 kΩ)
R303 R304	7030003440 7030003700	S. RESISTOR S. RESISTOR	ERJ3GEYJ 154 V (150 kΩ)	R385	7030003760	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R305	7030003720	S. RESISTOR	ERJ3GEYJ 224 V (220 kΩ)	R386	7030003650	S. RESISTOR	ERJ3GEYJ 563 V (56 kΩ)
R306	7030003360	S. RESISTOR	ERJ3GEYJ 221 V (220 Ω)	R387	7030003650	S. RESISTOR	ERJ3GEYJ 563 V (56 kΩ)
R307	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	R388	7030003650	S. RESISTOR	ERJ3GEYJ 563 V (56 kΩ)
R308	7030003600	S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	R389	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R310	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	R390	7030003680	S. RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R311	7030003510	S. RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)	R391 R392	7030003760 7030003600	S. RESISTOR S. RESISTOR	ERJ3GEYJ 474 V (470 kΩ) ERJ3GEYJ 223 V (22 kΩ)
R312 R313	7030003630 7030003580	S. RESISTOR S. RESISTOR	ERJ3GEYJ 393 V (39 kΩ) ERJ3GEYJ 153 V (15 kΩ)	R393	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R314	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	R394	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R315	7030003760	S. RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	R395	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R316	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	R396	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R317	7030003760	S. RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	R397	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R318	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	R398	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R319	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	R399	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R320	7030003360 7030003520	S. RESISTOR S. RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 472 V (4.7 kΩ)	R400 R401	7030003440 7030003330	S. RESISTOR S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 121 V (120 Ω)
R321 R322	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	R402	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R323	7030003530	S. RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)	R403	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R324	7030003550	S. RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ)	R407	7310002580	S. TRIMMER	RV-108 (RH03A3A15X05A)
R325	7310000710	TRIMMER	RH0651C13J1YA (102)				104
R326	7030003420	S. RESISTOR	ERJ3GEYJ 681 V (680 Ω)	R408	7510000560	THERMISTOR	ERT-D2ZGL 801S
R327	7030004040	S. RESISTOR S. RESISTOR	ERJ3GEYJ 4R7 V (4.7 Ω) ERJ3GEYJ 123 V (12 kΩ)	R409	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R328 R329	7030003570	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)				
R330	7030003480	S. RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	C1	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
R331	7310002740	S. TRIMMER	RV-150 (RH03A3A14X0FC)	C2	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
1	i		103	C3	4030006730	S. CERAMIC	C1608 SL 1H 680J-T-A
R332	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)	C4	4030006670	S. CERAMIC	C1608 SL 1H 270J-T-A
R333	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	C5 C6	4030006770 4030006610	S. CERAMIC S. CERAMIC	C1608 SL 1H 151J-T-A C1608 SL 1H 100D-T-A
R334 R335	7030003800 7030003560	S. RESISTOR S. RESISTOR	ERJ3GEYJ 105 V (1 ΜΩ) ERJ3GEYJ 103 V (10 kΩ)	C7	4030006740	S. CERAMIC	C1608 SL 1H 820J-T-A
R336	7310000820	TRIMMER	RH0651C16J0RA (105)	C8	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A
R337	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	C9	4030006870	S. CERAMIC	C1608 JB 1H 222K-T-A
R338	7030003540	S. RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)	C10	4030008650	S. CERAMIC	C1608 JB 1H 332K-T-A
R339	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	C11	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
R341	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	C12	4030006560	S. CERAMIC	C1608 SL 1H 050C-T-A C1608 JB 1C 473K-T-A
R342 R343	7030003440 7030003530	S. RESISTOR S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 562 V (5.6 kΩ)	C13 C14	4030008920 4030006880	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A
R344	7030003330	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)	C15	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
R345	7030003590	S. RESISTOR	ERJ3GEYJ 183 V (18 kΩ)	C16	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
R346	7030003600	S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	C17	4030006620	S. CERAMIC	C1608 SL 1H 120J-T-A
R347	7010003910	RESISTOR	R20J 4.7 Ω	C18	4030006590	S. CERAMIC	C1608 SL 1H 080D-T-A
R348	7010003910	RESISTOR	R20J 4.7 Ω	C19	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
R350	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)	C20	4030006880 4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 102K-T-A
R351	7030003440 7030003340	S. RESISTOR S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 151 V (150 Ω)	C21 C22	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
R352 R353	7030003340	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)	C23	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
R354	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)	C24	4030006750	S. CERAMIC	C1608 SL 1H 101J-T-A
R355	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)	C25	4030006750	S. CERAMIC	C1608 SL 1H 101J-T-A
R358	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)	C26	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
R359	7010003830	RESISTOR	R20J 1 Ω	C27	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A

S.=Surface mount

[MAIN UNIT]

REF.	ORDER NO.	DESCRIPTION		
C28	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A	
C29	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A	
C30	4030006590	S. CERAMIC	C1608 SL 1H 080D-T-A	
C31	4030006590	S. CERAMIC	C1608 SL 1H 080D-T-A C1608 JB 1H 102K-T-A	
C32 C33	4030006860 4030008960	S. CERAMIC S. CERAMIC	C2012 JB 1C 104K-T-A	
C34	4510003830	ELECTROLYTIC	50 MV R47 SW	
C35	4510003860	ELECTROLYTIC	50 MV 3R3 SW	
C36 C37	4030006880 4030008960	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C2012 JB 1C 104K-T-A	
C38	4510003910	ELECTROLYTIC	16 MV 47 HW	
C39	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A	
C40	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A	
C41 C42	4030006880 4030008960	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C2012 JB 1C 104K-T-A	
C43	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A	
C44	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A	
C45	4030008960	S. CERAMIC S. CERAMIC	C2012 JB 1C 104K-T-A C2012 JB 1C 104K-T-A	
C46 C47	4030008960 4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A	
C48	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A	
C49	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A	
C50 C51	4030008920 4030008920	S. CERAMIC S. CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A	
C51	4030008920	S. CERAMIC	C1608 SL 1H 470J-T-A	
C53	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A	
C54	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A	
C55 C56	4030006880 4030008960	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C2012 JB 1C 104K-T-A	
C57	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A	
C59	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A	
C60	4030006830	S. CERAMIC	C1608 SL 1H 331J-T-A	
C61 C62	4030006870 4030008960	S. CERAMIC S. CERAMIC	C1608 JB 1H 222K-T-A C2012 JB 1C 104K-T-A	
C63	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A	
C64	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A	
C65	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A	
C66 C67	4030008960 4030008960	S. CERAMIC S. CERAMIC	C2012 JB 1C 104K-T-A C2012 JB 1C 104K-T-A	
C68	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A	
C69	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A	
C70 C71	4030008960 4030008960	S. CERAMIC S. CERAMIC	C2012 JB 1C 104K-T-A C2012 JB 1C 104K-T-A	
C72	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A	
C73	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A	
C74	4030008960 4030006880	S. CERAMIC	C2012 JB 1C 104K-T-A	
C75 C76	4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 102K-T-A	
C77	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A	
C78	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A	
C79 C80	4030006880 4030008920	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1C 473K-T-A	
C81	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A	
C82	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A	
C83	4510005210	ELECTROLYTIC S. CERAMIC	50 MV 1 SWNP C1608 JB 1H 272K-T-A	
C84 C85	4030008470 4030006800	S. CERAMIC S. CERAMIC	C1608 JB 1H 272K-1-A C1608 SL 1H 221J-T-A	
C86	4030006870	S. CERAMIC	C1608 JB 1H 222K-T-A	
C87	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A	
C88 C89	4030008920 4030009980	S. CERAMIC S. CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1H 152K-T-A	
C90	4030009980	S. CERAMIC	C1608 JB 1H 272K-T-A	
C91	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A	
C92	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1H 182K-T-A	
C93 C94	4030009970 4030006810	S. CERAMIC S. CERAMIC	C1608 JB 1H 182K-1-A C1608 SL 1H 271J-T-A	
C95	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A	
C96	4030008850	S. CERAMIC	C1608 JB 1C 123K-T-A	
C97 C98	4030008470 4030009980	S. CERAMIC S. CERAMIC	C1608 JB 1H 272K-T-A C1608 JB 1H 152K-T-A	
C99	4030009980	S. CERAMIC	C1608 JB 1C 473K-T-A	
C100	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A	
C101	4030010020	S. CERAMIC	C1608 JB 1H 122K-T-A	
C102 C103	4030006750 4030010020	S. CERAMIC S. CERAMIC	C1608 SL 1H 101J-T-A C1608 JB 1H 122K-T-A	
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REF. NO.	ORDER NO.	D	ESCRIPTION
C104	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C105	4030006850	S. CERAMIC S. CERAMIC	C1608 JB 1H 471K-T-A C1608 SL 1H 680J-T-A
C106 C107	4030006730 4030006810	S. CERAMIC	C1608 SL 1H 271J-T-A
C108	4030010020	S. CERAMIC	C1608 JB 1H 122K-T-A
C109	4030010040	S. CERAMIC	C1608 JB 1H 561K-T-A
C110 C111	4030008770 4030008920	S. CERAMIC S. CERAMIC	C1608 JB 1H 562K-T-A C1608 JB 1C 473K-T-A
C112	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C113	4030006830	S. CERAMIC	C1608 SL 1H 331J-T-A
C114	4030006720	S. CERAMIC S. CERAMIC	C1608 SL 1H 560J-T-A C1608 SL 1H 331J-T-A
C115 C116	4030006830 4030009580	S. CERAMIC	C1608 JB 1H 681K-T-A
C117	4030006830	S. CERAMIC	C1608 SL 1H 331J-T-A
C118	4030008470	S. CERAMIC	C1608 JB 1H 272K-T-A
C119 C120	4030008920 4030008920	S. CERAMIC S. CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A
C121	4030006810	S. CERAMIC	C1608 SL 1H 271J-T-A
C122	4030006720	S. CERAMIC	C1608 SL 1H 560J-T-A
C123 C124	4030006770 4030006850	S. CERAMIC S. CERAMIC	C1608 SL 1H 151J-T-A C1608 JB 1H 471K-T-A
C125	4030006800	S. CERAMIC	C1608 SL 1H 221J-T-A
C126	4030009980	S. CERAMIC	C1608 JB 1H 152K-T-A
C127	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C128 C129	4030008920 4030006800	S. CERAMIC S. CERAMIC	C1608 JB 1C 473K-T-A C1608 SL 1H 221J-T-A
C130	4030006690	S. CERAMIC	C1608 SL 1H 330J-T-A
C131	4030006760	S. CERAMIC	C1608 SL 1H 121J-T-A
C132	4030006810	S. CERAMIC	C1608 SL 1H 271J-T-A C1608 SL 1H 151J-T-A
C133 C134	4030006770 4030010020	S. CERAMIC S. CERAMIC	C1608 JB 1H 122K-T-A
C135	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C136	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C137 C138	4030006690 4030006760	S. CERAMIC S. CERAMIC	C1608 SL 1H 330J-T-A C1608 SL 1H 121J-T-A
C139	4030006700	S. CERAMIC	C1608 SL 1H 390J-T-A
C140	4030006730	S. CERAMIC	C1608 SL 1H 680J-T-A
C141 C142	4030006800 4030006750	S. CERAMIC S. CERAMIC	C1608 SL 1H 221J-T-A C1608 SL 1H 101J-T-A
C142	4030009490	S. CERAMIC	C1608 JB 1H 821K-T-A
C144	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C145	4030008920 4030006750	S. CERAMIC S. CERAMIC	C1608 JB 1C 473K-T-A C1608 SL 1H 101J-T-A
C146 C147	4030008750	S. CERAMIC	C1608 JB 1C 473K-T-A
C148	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C149	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A
C150 C151	4030008920 4030008960	S. CERAMIC S. CERAMIC	C2012 JB 1C 104K-T-A
C152	4030006770	S. CERAMIC	C1608 SL 1H 151J-T-A
C153	4030006610	S. CERAMIC	C1608 SL 1H 100D-T-A
C154 C155	4030006740 4030006610	S. CERAMIC S. CERAMIC	C1608 SL 1H 820J-T-A C1608 SL 1H 100D-T-A
C156	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A
C157	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A
C158 C159	4030006860 4030006880	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 472K-T-A
C160	4030006560	S. CERAMIC	C1608 SL 1H 050C-T-A
C161	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C162	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C163 C164	4030006590 4030006590	S. CERAMIC S. CERAMIC	C1608 SL 1H 080D-T-A C1608 SL 1H 080D-T-A
C165	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C167	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C168 C169	4030006880 4030006560	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C1608 SL 1H 050C-T-A
C170	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C171	4510003790	ELECTROLYTIC	16 MV 10 SW
C172 C174	4030006860 4510003800	S. CERAMIC ELECTROLYTIC	C1608 JB 1H 102K-T-A 25 MV 4R7 SW
C175	4510003800	ELECTROLYTIC	50 MV R47 SW
C177	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C178 C179	4510003910 4030006750	ELECTROLYTIC S. CERAMIC	16 MV 47 HW C1608 SL 1H 101J-T-A
C179	4030006750	S. CERAMIC	C1608 SL 1H 151J-T-A
C181	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A

 $S.\!=\!Surface\ mount$

[MAIN UNIT]

LINIA	014111		
REF. NO.	ORDER NO.	D	ESCRIPTION
C182	4510003830	ELECTROLYTIC	50 MV R47 SW
C183	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C184	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C185	4510003910	ELECTROLYTIC	16 MV 47 HW C1608 JB 1C 473K-T-A
C186 C187	4030008920 4510003830	S. CERAMIC ELECTROLYTIC	50 MV R47 SW
C188	4310000440	MYLAR	50 F2D 473J
C190	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C191	4510003830	ELECTROLYTIC	50 MV R47 SW
C192	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C193	4030008960	S. CERAMIC ELECTROLYTIC	C2012 JB 1C 104K-T-A 16 MV 10 SW
C194 C195	4510003790 4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C196	4030006760	S. CERAMIC	C1608 SL 1H 121J-T-A
C197	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C198	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C199	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A 16 MV 1000 HC
C200 C201	4510004600 4510004590	ELECTROLYTIC ELECTROLYTIC	16 MV 470 HC
C202	4510004990	ELECTROLYTIC	16 MV 100 HC
C203	4510004990	ELECTROLYTIC	16 MV 100 HC
C204	4510005000	ELECTROLYTIC	16 MV 220 HC
C205	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C206	4510004990	ELECTROLYTIC	16 MV 100 HC
C207	4510003820 4030006870	S. CERAMIC	50 MV R22 SW C1608 JB 1H 222K-T-A
C208 C209	4310000400	MYLAR	50 F2D 223J
C210	4510003820	ELECTROLYTIC	50 MV R22 SW
C211	4510003790	ELECTROLYTIC	16 MV 10 SW
C212	4510003910	ELECTROLYTIC	16 MV 47 HW
C213	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A C1608 JB 1C 473K-T-A
C214	4030008920 4030008960	S. CERAMIC S. CERAMIC	C2012 JB 1C 104K-T-A
C215 C216	4030006800	S. CERAMIC	C1608 SL 1H 221J-T-A
C218	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A
C219	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C221	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A
C222	4030008960	S. CERAMIC S. CERAMIC	C2012 JB 1C 104K-T-A C2012 JB 1C 104K-T-A
C223 C224	4030008960 4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C225	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C227	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C228	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C229	4510005210	S. CERAMIC	50 MV 1 SWNP C1608 SL 1H 220J-T-A
C230 C231	4030006660 4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C232	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C233	4510003790	ELECTROLYTIC	16 MV 10 SW
C234	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A
C235	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C236	4030008920 4030008960	S. CERAMIC S. CERAMIC	C1608 JB 1C 473K-T-A C2012 JB 1C 104K-T-A
C239	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A
C240	4510004600	ELECTROLYTIC	16 MV 1000 HC
C241	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C242	4510003790	ELECTROLYTIC	16 MV 10 SW
C243	4030008920 4510003790	S. CERAMIC ELECTROLYTIC	C1608 JB 1C 473K-T-A 16 MV 10 SW
C244 C246	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C247	4510003790	ELECTROLYTIC	16 MV 10 SW
C248	4510003840	ELECTROLYTIC	50 MV 1 SW
C249	4510003850	ELECTROLYTIC	50 MV 2R2 SW
C250	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C251 C252	4030006750 4030006850	S. CERAMIC S. CERAMIC	C1608 SL 1H 101J-T-A C1608 JB 1H 471K-T-A
C252	4030006750	S. CERAMIC	C1608 SL 1H 101J-T-A
C254	4510003790	ELECTROLYTIC	16 MV 10 SW
C255	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C256	4510003820	ELECTROLYTIC	50 MV R22 SW
C257	4030008920	S. CERAMIC S. CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1H 102K-T-A
C258 C259	4030006860 4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C260	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C261	4510004140	ELECTROLYTIC	50 MV 10 HW
C262	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A

[MAIN]	UNIT		
REF. NO.	ORDER NO.	D	ESCRIPTION
C263	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C264 C265	4510003790 4510003790	ELECTROLYTIC ELECTROLYTIC	16 MV 10 SW 16 MV 10 SW
C266	4510003790	ELECTROLYTIC	16 MV 10 SW
C267	4510003800	ELECTROLYTIC	25 MV 4R7 SW
C268	4510003840	ELECTROLYTIC	50 MV 1 SW
C269	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A 16 MV 22 SWB
C270 C271	4510005240 4510003840	ELECTROLYTIC ELECTROLYTIC	50 MV 1 SW
C272	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C273	4030006900	S. CERAMIC	C1608 JB 1E 103K-T-A
C274	4550003130	S. TANTALUM	TEMSVB2 1C 475M-8L
C275 C276	4030006900 4550003250	S. CERAMIC S. TANTALUM	C1608 JB 1E 103K-T-A TEMSVA 1V 474M-8L
C277	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C278	4310000400	MYLAR	50 F2D 223J
C279	4310000400	MYLAR	50 F2D 223J
C280	4310000400	MYLAR	50 F2D 223J 16 MV 47 HW
C281 C282	4510003910 4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C283	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C284	4550002120	TANTALUM	DN 1C 220M
C285	4510003840	ELECTROLYTIC	50 MV 1 SW
C286	4510003850 4510003840	ELECTROLYTIC ELECTROLYTIC	50 MV 2R2 SW 50 MV 1 SW
C287 C288	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C289	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C290	4510003840	ELECTROLYTIC	50 MV 1 SW
C292	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C293 C294	4510003910 4030008920	S. CERAMIC	16 MV 47 HW C1608 JB 1C 473K-T-A
C295	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C296	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C297	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C298	4030008920	S. CERAMIC S. CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A
C299 C300	4030008920 4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C301	4510004590	ELECTROLYTIC	16 MV 470 HC
C302	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C303 C304	4030006880 4030006880	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A
C305	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C306	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C307	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C308 C310	4030006880 4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 102K-T-A
C310	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C312	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C324	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C346	4030008920 4550000400	S. CERAMIC TANTALUM	C1608 JB 1C 473K-T-A DN 1C 2R2M
C347 C348	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A
C349	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C350	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C355	4030006880 4030008920	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1C 473K-T-A
C359 C361	4030006920	S. CERAMIC	C1608 JB 1H 472K-T-A
C362	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C363	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C364	4030006880	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A
C365 C366	4030006880 4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C367	4030006900	S. CERAMIC	C1608 JB 1E 103K-T-A
C368	4030008960	S. CERAMIC	C2012 JB 1C 104K-T-A
C370	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A C1608 JB 1H 122K-T-A
C371 C372	4030010020 4030006870	S. CERAMIC S. CERAMIC	C1608 JB 1H 122K-T-A
C373	4030006840	S. CERAMIC	C1608 SL 1H 391J-T-A
C374	4510003840	ELECTROLYTIC	50 MV 1 SW
C375	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A
C376 C377	4030006880 4030006880	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A
C378	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C379	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C380	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A

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REF. NO.	ORDER NO.	DI	ESCRIPTION
C381	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C382	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C383	4030006850	S. CERAMIC	C1608 JB 1H 471K-T-A
C384	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C385	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C386	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C387	4610001260	S. TRIMMER	ECR-JA020 E12W
C388	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C389	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C390	4030006740	S. CERAMIC	C1608 SL 1H 820J-T-A
C391	4030006740	S. CERAMIC	C1608 SL 1H 820J-T-A
RL1	6330000180	RELAY	MZ-12HG
RL2	6330000560	RELAY	OUC-SH-114D
1,,,,	0000000000	TIEEA!	000 011 1145
J1	6510003250	CONNECTOR	TMP-J01X-A2
J2	6510003250	CONNECTOR	TMP-J01X-A2
J3	6510003250	CONNECTOR	TMP-J01X-A2
J4	6510003460	CONNECTOR	B10B-EH-S
J5	6510003400	CONNECTOR	B04B-EH-S
J6	6450001440	CONNECTOR	HSJ1403-01-010 [CLONING]
J7	6510003410	CONNECTOR	B05B-EH-S
J8	6510003410	CONNECTOR	B05B-EH-S
J9	6510016030	CONNECTOR	52089-1620
J10	6510016030	CONNECTOR	52089-1620
J11	6510003400	CONNECTOR	B04B-EH-S
J12	6510003420	CONNECTOR	B06B-EH-S
J13	6450001130	CONNECTOR	JPJ2042-01-110
14.4	054000000	CONNECTOR	[SEND/ALC]
J14	6510003390	CONNECTOR	B03B-EH-S
J15 J16	6510003400 6510003390	CONNECTOR CONNECTOR	B04B-EH-S B03B-EH-S
J17	6450000170	CONNECTOR	TCS4480-01-1111 [ACC (1)]
J18	6450000170	CONNECTOR	TCS4470-01-1111 [ACC (2)]
J19	6450001440	CONNECTOR	HSJ1403-01-010 [EXT SP]
J20	6450001260	CONNECTOR	HLJ4306-01-3080 [KEY]
J21	6510003250	CONNECTOR	TMP-J01X-A2
J22	6510004890	CONNECTOR	3022-09A
J23	6510000780	CONNECTOR	3022-06A
J24	6510003390	CONNECTOR	B03B-EH-S
EP1	0910039514	PCB	B 3857D (MAIN)
EP2	6910000310		B312D INSULATION BUSH
EP3	6910000340	SHEET	P101 KD (Insulating sheet)

[PLL UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION
IC1 IC2 IC3 IC4 IC5 IC6	1180001070 1130005741 1130006520 1130006670 1110001900 1140003640 1130003610	S. IC S. IC S. IC S. IC S. IC S. IC	TA7805F (TE16L) TC74AC74F (TP1) CXD1225M-1 TC74AC390F μPC4570G2-T1 SC-1246 (L7B1106) TC4SU69F (TE85R)
Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q18	1530002370 1530002370 1530002600 1590000680 1560000530 1530002050 1560000330 1560000560 1560000330	S. TRANSISTOR S. TRANSISTOR S. TRANSISTOR S. TRANSISTOR S. FET S. TRANSISTOR S. FET S. FET S. FET	2SC2714-O (TE85R) 2SC2714-O (TE85R) 2SC4215-O (TE85R)

[PLL UNIT]

[PLL (
REF. NO.	ORDER NO.	D	ESCRIPTION
Q19	1560000330	S. FET	2SK210-GR (TE85R)
Q20	1560000330	S. FET	2SK210-GR (TE85R)
Q21	1560000330	S. FET	2SK210-GR (TE85R)
Q22	1530002060	S. TRANSISTOR	2SC4081 T107 R
Q23	1530002060	S. TRANSISTOR	
Q24	1530002060	S. TRANSISTOR	2SC4081 T107 R
Q25	1530002060	S. TRANSISTOR	
Q26	1530002370	S. TRANSISTOR	
Q27	1530002370	S. TRANSISTOR	2SC2714-O (TE85R) 2SC2714-O (TE85R)
Q28 Q29	1530002370 1530002370	S. TRANSISTOR	• •
Q30	1530002370	S. TRANSISTOR	
Q32	1530002370	S. TRANSISTOR	, ,
D2	1750000020	S. DIODE	1SS184 (TE85R)
D3	1720000230	VARICAP	1SV101
D4	1720000230	VARICAP	1SV101
D5	1720000230	VARICAP	1SV101
D6	1720000230	VARICAP	1SV101
D7	1720000230	VARICAP	1SV101
D8	1750000020	S. DIODE	1SS184 (TE85R)
D9	1750000020	S. DIODE	1SS184 (TE85R) 1SS184 (TE85R)
D10 D11	1750000020 1750000020	S. DIODE S. DIODE	1SS184 (TE85R)
D11	1750000020	S. DIODE	1SS184 (TE85R)
D12	1730000020	S. ZENER	RD3.9M-T2B2
D13	1750000310	S. DIODE	1SS184 (TE85R)
D15	1750000020	S. DIODE	1SS226 (TE85R)
D16	1750000070	S. DIODE	1SS226 (TE85R)
D17	1750000070	S. DIODE	1SS226 (TE85R)
			• •
X1	6050007350	XTAL	CR-337 (#02)
	6050008870	XTAL	CR-338 (#01)
L1	6200001830	S. COIL	NL 322522T-100J
L2	6200001830	S. COIL	NL 322522T-100J
L3	6170000180	COIL	LW-19
L4	6150000760	COIL	LS-94
L5	6200001830	S. COIL	NL 322522T-100J
L6	6150000990	COIL	LS-114
L7	6150000990	COIL	LS-114
L8	6200001830	S. COIL	NL 322522T-100J
L9	6200001830	S. COIL	NL 322522T-100J
L10	6180000880	COIL	LAL 03NA 100K
L11	6190000990	COIL	C-14207-8.5 NL 322522T-4R7J-3
L12 L13	6200002960 6200003320	S. COIL S. COIL	NL 3225221-4H7J-3 NL 322522T-3R3J-3
L13	6200003320	S. COIL	NL 322522T-3H3J-3 NL 322522T-150J
L15	6200003140	S. COIL	NL 322522T-150J
L18	6140002220	COIL	LR-270
L19	6190000950	COIL	C-13975-6.5T
L20	6140002220	COIL	LR-270
L21	6190000950	COIL	C-13975-6.5T
L22	6140002220	COIL	LR-270
L23	6190000950	COIL	C-13975-6.5T
L24	6140002220	COIL	LR-270
L25 L26	6190000950 6200003260	COIL S. COIL	C-13975-6.5T NL 322522T-101J
L26 L27	6200003260	S. COIL	MLF3216D R68M-T
L28	6200000400	S. COIL	MLF3216D R68M-T
L29	6200000400	S. COIL	MLF3216D R68M-T
L30	6200000400	S. COIL	MLF3216D R68M-T
L31	6200003260	S. COIL	NL 322522T-101J
L33	6200003050	S. COIL	NL 322522T-R82J-3
L34	6200003430	S. COIL	NL 322522T-R10J
L35	6200003420	S. COIL	NL 322522T-R15J-3
L36	6200003430	S. COIL	NL 322522T-R10J
L37	6200003450	S. COIL	NL 322522T-082J
L39 L40	6200003050 6200003320	S. COIL S. COIL	NL 322522T-R82J-3 NL 322522T-3R3J-3
L40 L41	6200003320	S. COIL	NL 322522T-100J
L42	6200003050	S. COIL	NL 322522T-R82J-3

[PLL UNIT]

[PLL UNIT]

R54 7030003680 S. RESISTOR ERJ3GEYJ 104 V (100 kΩ)	REF. NO.	ORDER NO.		DESCRIPTION
L45	L43	6200003320	S. COIL	
Tosonosisto	L44	6200003160	S. COIL	
R1		1		
R2	L46	6200003150	S. COIL	NL 322522T-180J
R2	R1	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R3				` '
R5		7030003550	S. RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ)
R6	R4	7030003550	l -	
R7				
R8	1	1	•	
R9 7030003600 S. RESISTOR ERJ3GEYJ 223 V (22 kΩ) R10 7030003600 S. RESISTOR ERJ3GEYJ 223 V (22 kΩ) R12 7030003500 S. RESISTOR ERJ3GEYJ 471 V (47 kΩ) R14 7030003400 S. RESISTOR ERJ3GEYJ 472 V (47 kΩ) R15 7030003360 S. RESISTOR ERJ3GEYJ 221 V (22 kΩ) R16 7030003360 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R18 7030003360 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R19 7030003360 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R20 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 Ω) R21 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 Ω) R22 7030003400 S. RESISTOR ERJ3GEYJ 103 V (15 kΩ) R22 7030003400 S. RESISTOR ERJ3GEYJ 10 V (15 kΩ) <				, , ,
R10				
R13 7030003400 S. RESISTOR ERJ3GEYJ 471 V (470 Ω) R14 7030003520 S. RESISTOR ERJ3GEYJ 472 V (47 Ω) R16 7030003600 S. RESISTOR ERJ3GEYJ 223 V (22 Ω) R16 7030003600 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R17 7030003360 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R19 7030003400 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R21 7030003400 S. RESISTOR ERJ3GEYJ 37 (10 Ω) V (10 Ω) R22 7030003320 S. RESISTOR ERJ3GEYJ 10 1 V (100 Ω) R22 7030003320 S. RESISTOR ERJ3GEYJ 10 1 V (100 Ω) R26 7030003320 S. RESISTOR ERJ3GEYJ 10 1 V (100 Ω) R27 7030003320 S. RESISTOR ERJ3GEYJ 10 1 V (100 Ω) R28 703000340 S. RESISTOR ERJ3GEYJ 10 1 V (100 Ω) R31 703000340		1		ERJ3GEYJ 223 V (22 kΩ)
R14 7030003520 S. RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R16 7030003320 S. RESISTOR ERJ3GEYJ 21 V (100 Ω) R16 7030003360 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R17 7030003360 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R19 7030003400 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R20 7030003560 S. RESISTOR ERJ3GEYJ 471 V (470 Ω) R21 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R22 7030003360 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R24 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R26 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R27 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R28 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R30 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R33 7	R12			
R15 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R16 7030003600 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R18 7030003360 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R19 7030003360 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R20 7030003400 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R21 7030003560 S. RESISTOR ERJ3GEYJ 271 V (220 Ω) R22 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R22 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R23 7030003400 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R24 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R28 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R29 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R31 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R32 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R33 7030003340 S. RESISTOR ERJ3GEYJ 101 V (100 Ω)		1		
R16 7030003600 S. RESISTOR ERJ3GEYJ 223 V (22 kΩ) R17 7030003360 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R19 7030003360 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R20 7030003560 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R21 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R22 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R24 7030003460 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R26 703000320 S. RESISTOR ERJ3GEYJ 102 V (1.5 kΩ) R27 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R28 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R30 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R31 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R32 7030003400 S. RESISTOR ERJ3GEYJ 101 V (470 Ω) R33 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R34 7030003340 S. RESISTOR ERJ3GEYJ 101 V (100 kΩ)	•			` ' 1
R17 7030003360 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R18 7030003360 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R20 7030003400 S. RESISTOR ERJ3GEYJ 221 V (220 Ω) R21 7030003560 S. RESISTOR ERJ3GEYJ 471 V (470 Ω) R22 7030003560 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R23 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R24 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R26 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R27 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R32 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R33 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R34 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω)				
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R19				
R21 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R22 7030003560 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R24 7030003560 S. RESISTOR ERJ3GEYJ 102 V (10 kΩ) R26 703000320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R26 703000320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R27 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R29 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R31 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R32 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R32 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R33 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R36 7030003340 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) </td <td>R19</td> <td>7030003360</td> <td></td> <td></td>	R19	7030003360		
R22 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R23 703000360 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R24 703000340 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R26 703000320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R27 703000340 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R29 703000360 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R30 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R31 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R32 703000320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R33 703000320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R34 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R36 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R37 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R39 70300036	l			` ' 1
R23 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R24 7030003460 S. RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) R26 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R27 703000340 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R28 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R30 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R31 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R32 703000340 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R33 7030003700 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R34 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R35 7030003340 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R36 703000320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R37 703000340 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R38 7030003	l .			` ' 1
R24		I		
R26				
R28 7030003440 S. RESISTOR ERJ3GEYJ 102 V V (1 kΩ) R29 7030003460 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R30 7030003400 S. RESISTOR ERJ3GEYJ 471 V (470 Ω) R31 7030003400 S. RESISTOR ERJ3GEYJ 471 V (470 Ω) R32 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R34 7030003700 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R35 7030003800 S. RESISTOR ERJ3GEYJ 104 V (100 Ω) R36 703000320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R37 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R40 7030003560 S. RESISTOR ERJ3GEYJ 471 V (470 Ω) R41 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R44 7030003680 S. RESISTOR ERJ3GEYJ 473 V <				
R29 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R30 7030003440 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R31 7030003400 S. RESISTOR ERJ3GEYJ 471 V (470 Ω) R32 7030003400 S. RESISTOR ERJ3GEYJ 471 V (470 Ω) R33 7030003200 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R34 7030003320 S. RESISTOR ERJ3GEYJ 104 V (100 kΩ) R35 7030003340 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R37 7030003340 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R38 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R39 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R41 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R42 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R44 7030003680 S. RESISTOR ERJ3GEYJ 470 V (47 Ω) R60	R27	7030003320	S. RESISTOR	
R30				· · · · · ·
R31 7030003400 S. RESISTOR ERJ3GEYJ 471 V (470 Ω) R32 7030003400 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R34 7030003200 S. RESISTOR ERJ3GEYJ 104 V (100 Ω) R35 7030003800 S. RESISTOR ERJ3GEYJ 104 V (100 Ω) R36 7030003340 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R37 7030003340 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R39 7030003400 S. RESISTOR ERJ3GEYJ 103 V (100 Ω) R40 7030003400 S. RESISTOR ERJ3GEYJ 103 V (10 κΩ) R41 7030003600 S. RESISTOR ERJ3GEYJ 473 V (47 κΩ) R42 7030003600 S. RESISTOR ERJ3GEYJ 473 V (47 κΩ) R44 7030003680 S. RESISTOR ERJ3GEYJ 473 V (47 κΩ) R44 7030003680 S. RESISTOR ERJ3GEYJ 474 V (100 kΩ)				, , ,
R32 7030003440 S. RESISTOR ERJ3GEYJ 102 V (1 kΩ) R33 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R34 7030003600 S. RESISTOR ERJ3GEYJ 154 V (150 kΩ) R35 7030003320 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R36 7030003340 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R37 7030003340 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R38 7030003400 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R40 7030003600 S. RESISTOR ERJ3GEYJ 471 V (470 Ω) R41 7030003600 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R42 7030003600 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R44 7030003600 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R44 7030003680 S. RESISTOR ERJ3GEYJ 470 V (47 Ω) R46 7030003680 S. RESISTOR ERJ3GEYJ 104 V (100 kΩ) R51 <td< td=""><td></td><td></td><td></td><td>` '</td></td<>				` '
R33 7030003200 S. RESISTOR ERJ3GEYJ 101 V (100 Ω) R34 7030003700 S. RESISTOR ERJ3GEYJ 154 V (150 kΩ) R36 703000320 S. RESISTOR ERJ3GEYJ 104 V (100 kΩ) R37 7030003340 S. RESISTOR ERJ3GEYJ 151 V (150 Ω) R38 7030003340 S. RESISTOR ERJ3GEYJ 151 V (150 Ω) R39 7030003560 S. RESISTOR ERJ3GEYJ 151 V (150 Ω) R40 7030003400 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R41 7030003600 S. RESISTOR ERJ3GEYJ 471 V (47 Ω) R42 7030003601 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R44 7030003600 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R44 7030003600 S. RESISTOR ERJ3GEYJ 470 V (47 Ω) R44 7030003600 S. RESISTOR ERJ3GEYJ 470 V (47 Ω) R49 7030003600 S. RESISTOR ERJ3GEYJ 104 V (100 kΩ) R51				
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R65 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R66 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R67 7030003280 S. RESISTOR ERJ3GEYJ 470 V (47 Ω) R68 7030003340 S. RESISTOR ERJ3GEYJ 151 V (150 Ω) R70 7030003640 S. RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R71 7030003560 S. RESISTOR ERJ3GEYJ 103 V (47 kΩ) R72 703000340 S. RESISTOR ERJ3GEYJ 151 V (150 Ω) R73 7030003500 S. RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R74 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ)	1	6	ł	` · ·
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R67 7030003280 S. RESISTOR ERJ3GEYJ 470 V (47 Ω) R68 7030003340 S. RESISTOR ERJ3GEYJ 151 V (150 Ω) R69 7030003500 S. RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R70 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R71 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R72 7030003340 S. RESISTOR ERJ3GEYJ 151 V (150 Ω) R73 7030003500 S. RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R74 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ)				` '
R69 7030003500 S. RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R70 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R71 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R72 7030003340 S. RESISTOR ERJ3GEYJ 151 V (150 Ω) R73 7030003500 S. RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R74 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ)	1	i .		ERJ3GEYJ 470 V (47 Ω)
R70 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ) R71 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R72 7030003340 S. RESISTOR ERJ3GEYJ 151 V (150 Ω) R73 7030003500 S. RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R74 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ)				, ,
R71 7030003560 S. RESISTOR ERJ3GEYJ 103 V (10 kΩ) R72 7030003340 S. RESISTOR ERJ3GEYJ 151 V (150 Ω) R73 7030003500 S. RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R74 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ)				, ,
R72 7030003340 S. RESISTOR ERJ3GEYJ 151 V (150 Ω) R73 7030003500 S. RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R74 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ)				, ,
R73 7030003500 S. RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R74 7030003640 S. RESISTOR ERJ3GEYJ 473 V (47 kΩ)	1		1 .	
		1	1	ERJ3GEYJ 332 V (3.3 kΩ)
R75 7030003560 S. RESISTOR			1	
	R75	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)

[PLL (PLL UNIT]			
REF. NO.	ORDER NO.		DESCRIPTION	
R76	7030003360	S. RESISTOR	ERJ3GEYJ 221 V (220 Ω)	
R77	7030003520	S. RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	
R78	7030003380	S. RESISTOR	ERJ3GEYJ 331 V (330 Ω)	
R79	7030003360 7030003600	S. RESISTOR S. RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 223 V (22 kΩ)	
R80 R81	7030003600	S. RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	
R82	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R83	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R84	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R85	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R86	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 221 V (220 Ω)	
R87 R88	7030003360 7030003320	S. RESISTOR S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R89	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R90	7030003400	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R91	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R92	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R93	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)	
R94 R95	7030003440 7030003440	S. RESISTOR S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R96	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R97	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R98	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R99	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R101	7080001250	RESISTOR	CRH100X R-02J 22 Ω (220)	
R103 R104	7030003640 7030003640	S. RESISTOR S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)	
R105	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R106	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R107	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R108	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R109	7030003660	S. RESISTOR	ERJ3GEYJ 683 V (68 kΩ) ERJ3GEYJ 684 V (680 kΩ)	
R110 R116	7030003780 7030003320	S. RESISTOR S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R117	7030003520	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R118	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)	
R119	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R120	7030003640	S. RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R121 R126	7030003360 7030003520	S. RESISTOR S. RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 472 V (4.7 kΩ)	
R127	7030003320	S. RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R132	7030005400	S. RESISTOR	RR0816P-202-D (2 kΩ)	
R133	7030005390	S. RESISTOR	RR0816P-102-D (1 kΩ)	
R134	7030005390	S. RESISTOR	RR0816P-102-D (1 kΩ)	
R135 R136	7030005390 7030005390	S. RESISTOR S. RESISTOR	RR0816P-102-D (1 kΩ) RR0816P-102-D (1 kΩ)	
R137	7030005390	S. RESISTOR	RR0816P-102-D (1 kΩ)	
R138	7030005390	S. RESISTOR	RR0816P-102-D (1 kΩ)	
R139	7030005380	S. RESISTOR	RR0816P-102-B (1 kΩ)	
R140	7030005380	S. RESISTOR	RR0816P-102-B (1 kΩ)	
R141	7030005380	S. RESISTOR S. RESISTOR	RR0816P-102-B (1 kΩ) RR0816P-102-B (1 kΩ)	
R142 R143	7030005380 7030005380	S. RESISTOR	RR0816P-102-B (1 kΩ)	
R144	7030005400	S. RESISTOR	RR0816P-202-D (2 kΩ)	
R145	7030005400	S. RESISTOR	RR0816P-202-D (2 kΩ)	
R146	7030005400	S. RESISTOR	RR0816P-202-D (2 kΩ)	
R147	7030005400	S. RESISTOR	RR0816P-202-D (2 kΩ)	
R148 R149	7030005400 7030005400	S. RESISTOR S. RESISTOR	RR0816P-202-D (2 kΩ) RR0816P-202-D (2 kΩ)	
R150	7030005400	S. RESISTOR	RR0816P-202-B (2 kΩ)	
R151	7030005370	S. RESISTOR	RR0816P-202-B (2 kΩ)	
R152	7030005370	S. RESISTOR	RR0816P-202-B (2 kΩ)	
R153	7030005370	S. RESISTOR	RR0816P-202-B (2 kΩ)	
R154	7030005370	S. RESISTOR	RR0816P-202-B (2 kΩ)	
R155 R156	7030005400 7030003280	S. RESISTOR S. RESISTOR	RR0816P-202-D (2 kΩ) ERJ3GEYJ 470 V (47 Ω)	
R157	7010001320	RESISTOR	R25XJ 22 kΩ	
R158	7030003320	S. RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R159	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R160	7030003560	S. RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R161 R162	7030003360 7030003500	S. RESISTOR S. RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 332 V (3.3 kΩ)	
R163	7030003500	S. RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)	
R164	7030003440	S. RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R165	7030003800	S. RESISTOR	ERJ3GEYJ 105 V (1 MΩ)	

[PLL UNIT]

[PLL UNIT]

NO. NO.	REF.	ORDER	DESCRIPTION	
R168			D	ESCRIPTION
R168 7030003400 S. RESISTOR ERJ3GEYJ 471 V (470 Ω)				
C1			l.	
C2	R169	7030003280	S. RESISTOR	ERJ3GEYJ 470 V (47 Ω)
C2				
C3				
C5				
C7 4030008920 S S. CERAMIC C1608 JB 1C 473K.T-A O9 4510003790 ELECTROLYTIC 16 MV 10 SW C10 4030008920 SC. CERAMIC C1608 JB 1C 473K.T-A C12 4030008920 SC. CERAMIC C1608 JB 1C 473K.T-A C13 4030007380 SC. CERAMIC C1608 JB 1C 473K.T-A C14 4030007380 SC. CERAMIC C1608 JB 1C 473K.T-A C15 4030006800 SC. CERAMIC C1608 JB 1C 473K.T-A C16 4610001260 SC. CERAMIC C1608 JB 1H 472K.T-A C18 4030006800 SC. CERAMIC C1608 JB 1H 472K.T-A C19 4030006800 SC. CERAMIC C1608 JB 1H 472K.T-A C21 4510004990 SC. CERAMIC C1608 JB 1H 472K.T-A C22 4030006810 SC. CERAMIC C1608 SL 1H 100D.T-A C23 4030006810 SC. CERAMIC C1608 SL 1H 100D.T-A C24 4030006810 SC. CERAMIC C1608 SL 1H 100D.T-A C25 4030006800 SC. CERAMIC C1608 SL 1H 100D.T-A C26 4030006800 SC. CERAMIC C1608 SL 1H 100D.T-A C27 4030006800 SC. CERAMIC C1608 JB 1H 472K.T-A C31 <td></td> <td>4510003840</td> <td>ELECTROLYTIC</td> <td></td>		4510003840	ELECTROLYTIC	
C8	I			
C10	l .	i .		
C12	1			
C14	1			
C15	1			
C16				
C17 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C19 4030006800 S. CERAMIC C1608 JB 1H 117-T-A C20 4030006800 S. CERAMIC C1608 JB 1H 472K-T-A C21 4510004990 ELECTROLYTIC C1608 JB 1H 472K-T-A C22 4030006810 S. CERAMIC C1608 JB 1H 472K-T-A C23 4030006750 S. CERAMIC C1608 JL 1H 100D-T-A C25 4030006750 S. CERAMIC C1608 SL 1H 100D-T-A C26 4030006800 S. CERAMIC C1608 JB 1H 102K-T-A C27 4030006800 S. CERAMIC C1608 JB 1H 102K-T-A C30 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C31 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C32 4030008800 S. CERAMIC C1608 JB 1H 472K-T-A C33 4030008800 S. CERAMIC C1608 JB 1H 472K-T-A C34 4030008800 S. CERAMIC C1608 JB 1H 472K-T-A C35 4030008800 S. CERAMIC C1608 JB 1C 473K-T-A C36	1			
C19				
C20		1	1	
C22 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C23 4030006510 S. CERAMIC C1608 SL 1H 00D-T-A C24 4030006750 S. CERAMIC C1608 SL 1H 10D-T-A C25 4030006800 S. CERAMIC C1608 SL 1H 101J-T-A C28 4030006800 S. CERAMIC C1608 JB 1H 102K-T-A C29 4030006800 S. CERAMIC C1608 JB 1H 472K-T-A C30 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C31 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C32 4030008920 S. CERAMIC C1608 JB 1H 472K-T-A C33 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C34 4030009000 S. CERAMIC C1608 JB 1C 473K-T-A C35 4030006880 S. CERAMIC C1608 JB 1C 473K-T-A C34 4030006880 S. CERAMIC C1608 JB 1C 473K-T-A C35 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C36 403000710 S. CERAMIC C1608 CH 1H 101J-T-A C41				
C23 4030006510 S. CERAMIC C1608 SL 1H 0R5C-T-A C24 4030006610 S. CERAMIC C1608 SL 1H 100D-T-A C25 403000780 S. CERAMIC C1608 PH 1H 820J-T-A C26 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C27 4030006860 S. CERAMIC C1608 JB 1H 102K-T-A C29 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C30 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C31 4030008920 S. CERAMIC C1608 JB 1H 472K-T-A C32 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C33 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C34 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C35 403000880 S. CERAMIC C1608 JB 1C 473K-T-A C34 40300097130 S. CERAMIC C1608 JB 1C 473K-T-A C35 4030007120 S. CERAMIC C1608 CH 1H 120J-T-A C37 403000710 S. CERAMIC C1608 CH 1H 120J-T-A C41		1	l	-
C24 4030006610 S. CERAMIC C1608 SL 1H 100D-T-A C25 4030007380 S. CERAMIC C1608 PH 1H 820J-T-A C26 4030006750 S. CERAMIC C1608 BL 1H 101J-T-A C27 4030006880 S. CERAMIC C1608 JB 1H 102K-T-A C28 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C30 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C31 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C32 4030008920 S. CERAMIC C1608 JB 1H 472K-T-A C33 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C34 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C34 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C35 4030007020 S. CERAMIC C1608 JB 1H 472K-T-A C36 4030007130 S. CERAMIC C1608 JB 1H 472K-T-A C37 4030007120 S. CERAMIC C1608 CH 1H 101J-T-A C38 4030007120 S. CERAMIC C1608 CH 1H 680J-T-A C41			1	
C26 4030006750 S. CERAMIC C1608 SL 1H 101J-T-A C27 4030006800 S. CERAMIC C1608 JB 1H 102K-T-A C28 4030006800 S. CERAMIC C1608 JB 1E 103K-T-A C30 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C31 403000680 S. CERAMIC C1608 JB 1H 472K-T-A C32 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C33 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C34 4030009000 S. CERAMIC C1608 JB 1C 473K-T-A C35 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C36 4030007300 S. CERAMIC C1608 JB 1C 473K-T-A C37 4030007130 S. CERAMIC C1608 JB 1H 472K-T-A C38 4030007100 S. CERAMIC C1608 CH 1H 101J-T-A C39 4610001270 S. CERAMIC C1608 CH 1H 100J-T-A C41 4030006880 S. CERAMIC C1608 CH 1H 150J-T-A C42 4030006880 S. CERAMIC C1608 CH 1H 150J-T-A C43		1 3	I '	
C27 4030006800 S. CERAMIC C1608 JB 1H 102K-T-A C28 4030006800 S. CERAMIC C1608 JB 1E 103K-T-A C29 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C30 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C31 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C33 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C34 4030009000 S. CERAMIC C1608 JB 1C 473K-T-A C35 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C35 4030007130 S. CERAMIC C1608 JB 1H 472K-T-A C37 4030007130 S. CERAMIC C1608 CH 1H 10J-T-A C38 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C39 4610001270 S. TRIMMER ECR-JA010 A12W C41 4030006880 S. CERAMIC C1608 CH 1H 100J-T-A C42 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C43 4030007010 S. CERAMIC C1608 JB 1H 472K-T-A C43 <td< td=""><td></td><td></td><td>i</td><td></td></td<>			i	
C28 4030006900 S. CERAMIC C1608 JB 1E 103K-T-A C29 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C30 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C31 4030006820 S. CERAMIC C1608 JB 1H 472K-T-A C32 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C33 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C35 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C36 4030006880 S. CERAMIC C1608 JB 1C 473K-T-A C37 4030007130 S. CERAMIC C1608 JB 1H 472K-T-A C38 4030007130 S. CERAMIC C1608 CH 1H 101J-T-A C39 4610001270 S. TRIMMER ECR-JA010 A12W C40 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C41 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C42 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C43 4030007010 S. CERAMIC C1608 CH 1H 150J-T-A C44 <t< td=""><td></td><td>l</td><td></td><td></td></t<>		l		
G30 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A G31 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A G32 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A G34 4030008920 S. CERAMIC C2012 JB 1C 224K-T-A G35 4030006880 S. CERAMIC C1608 JB 1C 473K-T-A G36 4030007130 S. CERAMIC C1608 CH 1H 101J-T-A C38 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C39 4610001270 S. TRIMMER ECR-JA010 A12W C40 4030007110 S. CERAMIC C1608 CH 1H 150J-T-A C41 4030006880 S. CERAMIC C1608 CH 1H 150J-T-A C42 4030006880 S. CERAMIC C1608 CH 1H 150J-T-A C43 4030007030 S. CERAMIC C1608 CH 1H 100D-T-A C44 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C45 4030008920 S. CERAMIC C1608 CH 1H 100D-T-A C51 4030008920 S. CERAMIC C1608 CH 1H 100D-T-A C52 <t< td=""><td></td><td>4030006900</td><td>S. CERAMIC</td><td>C1608 JB 1E 103K-T-A</td></t<>		4030006900	S. CERAMIC	C1608 JB 1E 103K-T-A
C31 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C32 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C34 4030009000 S. CERAMIC C1608 JB 1C 473K-T-A C35 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C36 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C37 4030007130 S. CERAMIC C1608 CH 1H 101J-T-A C39 4610001270 S. TRIIMMER ECR-JA010 A12W C40 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C41 4030006880 S. CERAMIC C1608 CH 1H 680J-T-A C42 4030006880 S. CERAMIC C1608 CH 1H 100D-T-A C43 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C44 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C43 4030008920 S. CERAMIC C1608 CH 1H 100D-T-A C51 4030008920 S. CERAMIC C1608 JB 1C 123K-T-A C52 4030008870 S. CERAMIC C1608 JB 1C 123K-T-A C53 <				
C33 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C34 4030009000 S. CERAMIC C2012 JB 1C 224K-T-A C35 4030006820 S. CERAMIC C1608 JB 1C 473K-T-A C36 4030007130 S. CERAMIC C1608 CH 1H 101J-T-A C37 4030007020 S. CERAMIC C1608 CH 1H 101J-T-A C39 4610001270 S. TRIMMER ECR-JA010 A12W C40 4030006880 S. CERAMIC C1608 CH 1H 680J-T-A C41 4030006880 S. CERAMIC C1608 CH 1H 150J-T-A C41 4030006880 S. CERAMIC C1608 CH 1H 150J-T-A C42 4030006880 S. CERAMIC C1608 CH 1H 100D-T-A C43 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C44 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C45 4030008920 S. CERAMIC C1608 CH 1H 100D-T-A C51 4030008850 S. CERAMIC C1608 JB 1C 473K-T-A C52 4030008870 S. CERAMIC C1608 JB 1H 222K-T-A C53 <t< td=""><td></td><td></td><td></td><td></td></t<>				
C34 4030009000 S. CERAMIC C2012 JB 1C 224K-T-A C35 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C36 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C37 4030007130 S. CERAMIC C1608 CH 1H 10J-T-A C38 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C39 4610001270 S. TRIMMER ECR-JA010 A12W C40 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C41 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C42 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C43 4030007030 S. CERAMIC C1608 CH 1H 100D-T-A C44 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C45 4030007010 S. CERAMIC C1608 JB 1C 473K-T-A C50 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C51 4030008850 S. CERAMIC C1608 JB 1C 123K-T-A C52 4030006870 S. CERAMIC C1608 JB 1C 123K-T-A C53 <td< td=""><td></td><td></td><td></td><td></td></td<>				
C35 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C36 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C37 4030007130 S. CERAMIC C1608 CH 1H 101J-T-A C38 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C39 4610001270 S. TRIMMER ECR-JA010 A12W C40 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C41 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C42 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C43 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C44 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C45 4030008920 S. CERAMIC C1608 CH 1H 100D-T-A C50 4030008850 S. CERAMIC C1608 JB 1C 473K-T-A C51 4030008860 S. CERAMIC C1608 JB 1C 123K-T-A C53 4030008860 S. CERAMIC C1608 JB 1C 123K-T-A C54 4030008860 S. CERAMIC C1608 JB 1C 153K-T-A C65 <t< td=""><td></td><td></td><td></td><td></td></t<>				
C37 4030007130 S. CERAMIC C1608 CH 1H 101J-T-A C38 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C39 4610001270 S. TRIMMER ECR-JA010 A12W C40 4030006880 S. CERAMIC C1608 CH 1H 680J-T-A C42 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C43 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C44 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C45 4030008920 S. CERAMIC C1608 CH 1H 100D-T-A C50 4030008920 S. CERAMIC C1608 CH 1H 100D-T-A C51 4030008850 S. CERAMIC C1608 CH 1H 100D-T-A C52 4030008870 S. CERAMIC C1608 JB 1C 473K-T-A C53 4030008870 S. CERAMIC C1608 JB 1H 222K-T-A C54 4030008870 S. CERAMIC C1608 JB 1C 153K-T-A C55 4030008870 S. CERAMIC C1608 JB 1C 153K-T-A C66 4030007170 S. CERAMIC C1608 CH 1H 221J-T-A C66 <t< td=""><td></td><td></td><td></td><td>C1608 JB 1C 473K-T-A</td></t<>				C1608 JB 1C 473K-T-A
C38 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C39 4610001270 S. TRIMMER ECR-JA010 A12W C40 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C41 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C42 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C44 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C45 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C48 4030008920 S. CERAMIC C1608 CH 1H 100D-T-A C50 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C51 4030008850 S. CERAMIC C1608 JB 1C 123K-T-A C52 4030008860 S. CERAMIC C1608 JB 1C 123K-T-A C53 4030008870 S. CERAMIC C1608 JB 1C 153K-T-A C62 4030008870 S. CERAMIC C1608 JB 1C 153K-T-A C63 4030007170 S. CERAMIC C1608 CH 1H 221J-T-A C64 4610001270 S. CERAMIC C1608 CH 1H 20J-T-A C65 <td< td=""><td></td><td></td><td>i</td><td></td></td<>			i	
C40 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C41 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C42 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C43 4030007010 S. CERAMIC C1608 CH 1H 150J-T-A C45 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C48 4030008920 S. CERAMIC C1608 CH 1H 100D-T-A C50 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C51 4030008850 S. CERAMIC C1608 JB 1C 473K-T-A C52 4030008860 S. CERAMIC C1608 JB 1H 222K-T-A C53 4030008860 S. CERAMIC C1608 JB 1H 821K-T-A C54 4030008870 S. CERAMIC C1608 JB 1C 153K-T-A C55 4030008870 S. CERAMIC C1608 JB 1C 183K-T-A C62 4030007170 S. CERAMIC C1608 JB 1C 183K-T-A C63 4030007170 S. CERAMIC C1608 CH 1H 221J-T-A C64 4610001270 S. CERAMIC C1608 CH 1H 20J-T-A C65				
C41 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C42 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C43 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C44 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C45 4030008920 S. CERAMIC C1608 CH 1H 100D-T-A C50 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C51 4030008850 S. CERAMIC C1608 JB 1C 473K-T-A C52 4030008870 S. CERAMIC C1608 JB 1C 123K-T-A C53 4030008860 S. CERAMIC C1608 JB 1H 821K-T-A C54 4030008870 S. CERAMIC C1608 JB 1C 153K-T-A C55 4030008870 S. CERAMIC C1608 JB 1C 183K-T-A C54 4030007170 S. CERAMIC C1608 JB 1C 183K-T-A C63 4030007170 S. CERAMIC C1608 CH 1H 220J-T-A C64 4610001270 S. TRIMMER ECR-JA010 A12W C65 4030007110 S. CERAMIC C1608 CH 1H 120J-T-A C66 <t< td=""><td>1</td><td></td><td></td><td></td></t<>	1			
C42 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C43 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C44 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C45 4030008920 S. CERAMIC C1608 CH 1H 100D-T-A C50 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C51 4030008850 S. CERAMIC C1608 JB 1C 123K-T-A C52 4030008870 S. CERAMIC C1608 JB 1H 222K-T-A C53 4030008860 S. CERAMIC C1608 JB 1H 821K-T-A C54 4030008870 S. CERAMIC C1608 JB 1C 153K-T-A C55 4030008870 S. CERAMIC C1608 JB 1C 183K-T-A C62 4030007170 S. CERAMIC C1608 JB 1C 183K-T-A C63 4030007170 S. CERAMIC C1608 CH 1H 201-T-A C64 4610001270 S. TRIMMER ECR-JA010 A12W C65 4030007110 S. CERAMIC C1608 CH 1H 120J-T-A C66 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C67 <td< td=""><td></td><td></td><td></td><td></td></td<>				
C44 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C45 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C48 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C50 4030008850 S. CERAMIC C1608 JB 1C 473K-T-A C51 4030008870 S. CERAMIC C1608 JB 1C 123K-T-A C53 4030008860 S. CERAMIC C1608 JB 1H 222K-T-A C54 4030008860 S. CERAMIC C1608 JB 1C 153K-T-A C55 4030008870 S. CERAMIC C1608 JB 1C 183K-T-A C65 4030007170 S. CERAMIC C1608 JB 1C 183K-T-A C63 4030007170 S. CERAMIC C1608 CH 1H 221J-T-A C63 4030007170 S. CERAMIC C1608 CH 1H 200J-T-A C64 4610001270 S. TRIMMER ECR-JA010 A12W C65 4030007100 S. CERAMIC C1608 CH 1H 120J-T-A C66 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C67 4030007020 S. CERAMIC C1608 CH 1H 150J-T-A C70 <t< td=""><td></td><td></td><td>1</td><td>C1608 JB 1H 472K-T-A</td></t<>			1	C1608 JB 1H 472K-T-A
C45 4030007010 S. CERAMIC C1608 CH 1H 100D-T-A C48 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C50 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C51 4030008850 S. CERAMIC C1608 JB 1C 123K-T-A C52 4030008870 S. CERAMIC C1608 JB 1H 222K-T-A C53 4030008860 S. CERAMIC C1608 JB 1C 153K-T-A C54 4030008870 S. CERAMIC C1608 JB 1C 183K-T-A C55 4030007170 S. CERAMIC C1608 JB 1C 183K-T-A C62 4030007170 S. CERAMIC C1608 CH 1H 221J-T-A C63 4030009990 S. CERAMIC C1608 CH 1H 200J-T-A C64 4610001270 S. CERAMIC C1608 CH 1H 200J-T-A C65 4030007100 S. CERAMIC C1608 CH 1H 120J-T-A C66 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C67 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C68 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C70				
C50 4030008920 S. CERAMIC C1608 JB 1C 473K-T-A C51 4030008850 S. CERAMIC C1608 JB 1C 123K-T-A C52 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C53 4030009490 S. CERAMIC C1608 JB 1H 821K-T-A C54 4030008870 S. CERAMIC C1608 JB 1C 153K-T-A C55 4030008870 S. CERAMIC C1608 JB 1C 183K-T-A C62 4030007170 S. CERAMIC C1608 CH 1H 221J-T-A C63 4030009990 S. CERAMIC C1608 CH 1H 200J-T-A C64 4610001270 S. TRIMMER ECR-JA010 A12W C65 4030007110 S. CERAMIC C1608 CH 1H 120J-T-A C66 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C67 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C68 4030007030 S. CERAMIC C1608 CH 1H 680J-T-A C70 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C71 4610001270 S. TRIMMER ECR-JA010 A12W C72 4030				
C51 4030008850 S. CERAMIC C1608 JB 1C 123K-T-A C52 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C53 4030009490 S. CERAMIC C1608 JB 1H 821K-T-A C54 4030008860 S. CERAMIC C1608 JB 1C 153K-T-A C55 4030008870 S. CERAMIC C1608 JB 1C 183K-T-A C62 4030007170 S. CERAMIC C1608 CH 1H 221J-T-A C63 4030009990 S. CERAMIC C1608 CH 1H 220J-T-A C64 4610001270 S. TRIMMER ECR-JA010 A12W C65 4030007110 S. CERAMIC C1608 CH 1H 120J-T-A C66 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C67 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C68 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C70 4030007030 S. CERAMIC C1608 CH 1H 680J-T-A C71 4610001270 S. TRIMMER ECR-JA010 A12W C72 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C73 4030				
C52 4030006870 S. CERAMIC C1608 JB 1H 222K-T-A C53 4030009490 S. CERAMIC C1608 JB 1H 821K-T-A C54 4030008860 S. CERAMIC C1608 JB 1C 153K-T-A C55 4030008870 S. CERAMIC C1608 JB 1C 183K-T-A C62 4030007170 S. CERAMIC C1608 CH 1H 221J-T-A C63 4030009990 S. CERAMIC C1608 CH 1H 200J-T-A C64 4610001270 S. TRIMMER ECR-JA010 A12W C65 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C66 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C67 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C68 4030007020 S. CERAMIC C1608 CH 1H 680J-T-A C69 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C70 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C71 4610001270 S. TRIMMER ECR-JA010 A12W C72 4030007020 S. CERAMIC C1608 CH 1H 470J-T-A C75 4030				
C54 4030008860 S. CERAMIC C1608 JB 1C 153K-T-A C55 4030008870 S. CERAMIC C1608 JB 1C 183K-T-A C62 403007170 S. CERAMIC C1608 CH 1H 221J-T-A C63 4030009990 S. CERAMIC C1608 CH 1H 200J-T-A C64 4610001270 S. TRIMMER ECR-JA010 A12W C65 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C66 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C67 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C68 4030007020 S. CERAMIC C1608 CH 1H 150J-T-A C69 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C70 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C71 4610001270 S. TRIMMER ECR-JA010 A12W C72 4030007020 S. CERAMIC C1608 CH 1H 470J-T-A C73 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C75 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C76 40301	C52	4030006870	S. CERAMIC	C1608 JB 1H 222K-T-A
C55 4030008870 S. CERAMIC C1608 JB 1C 183K-T-A C62 4030007170 S. CERAMIC C1608 CH 1H 221J-T-A C63 4030009990 S. CERAMIC C1608 CH 1H 200J-T-A C64 4610001270 S. TRIMMER ECR-JA010 A12W C65 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C66 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C67 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C69 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C70 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C71 4610001270 S. TRIMMER ECR-JA010 A12W C72 4030007020 S. CERAMIC C1608 CH 1H 470J-T-A C73 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C75 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C76 4030010000 S. CERAMIC C1608 CH 1H 120J-T-A C77 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C76 4030				
C62 4030007170 S. CERAMIC C1608 CH 1H 221J-T-A C63 403000990 S. CERAMIC C1608 CH 1H 200J-T-A C64 4610001270 S. TRIMMER ECR-JA010 A12W C65 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C66 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C67 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C68 4030006880 S. CERAMIC C1608 CH 1H 680J-T-A C70 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C71 4610001270 S. TRIMMER ECR-JA010 A12W C72 4030007090 S. CERAMIC C1608 CH 1H 470J-T-A C73 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C74 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C75 4030006880 S. CERAMIC C1608 CH 1H 120J-T-A C76 4030010000 S. CERAMIC C1608 CH 1H 510J-T-A C77 4030007020 S. CERAMIC C1608 CH 1H 510J-T-A C77 40300	1 1			
C64 4610001270 S. TRIMMER ECR-JA010 A12W C65 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C66 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C67 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C68 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C69 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C70 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C71 4610001270 S. TRIMMER ECR-JA010 A12W C72 4030007090 S. CERAMIC C1608 CH 1H 470J-T-A C73 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C75 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C75 4030010000 S. CERAMIC C1608 CH 1H 510J-T-A C77 4030007020 S. CERAMIC C1608 CH 1H 510J-T-A C77 4030007020 S. CERAMIC C1608 CH 1H 510J-T-A C77 4030007020 S. CERAMIC C1608 CH 1H 510J-T-A C78 4610	C62			
C65 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C66 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C67 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C68 4030006880 S. CERAMIC C1608 CH 1H 120J-T-A C69 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C70 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C71 4610001270 S. TRIMMER ECR-JA010 A12W C72 4030007020 S. CERAMIC C1608 CH 1H 470J-T-A C73 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C74 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C75 4030007020 S. CERAMIC C1608 CH 1H 510J-T-A C76 4030010000 S. CERAMIC C1608 CH 1H 510J-T-A C77 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C78 4610001170 S. TRIMMER ECR-JA006 A12W C79 4030007090 S. CERAMIC C1608 CH 1H 470J-T-A				
C67 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C68 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C69 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C70 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C71 4610001270 S. TRIMMER ECR-JA010 A12W C72 4030007090 S. CERAMIC C1608 CH 1H 470J-T-A C73 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C75 4030006880 S. CERAMIC C1608 CH 1H 120J-T-A C76 4030010000 S. CERAMIC C1608 CH 1H 510J-T-A C77 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C76 4030010000 S. CERAMIC C1608 CH 1H 120J-T-A C77 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C78 4610001170 S. TRIMMER ECR-JA006 A12W C79 4030007090 S. CERAMIC C1608 CH 1H 470J-T-A		4030007110	S. CERAMIC	C1608 CH 1H 680J-T-A
C68 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C69 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C70 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C71 4610001270 S. TRIMMER ECR-JA010 A12W C72 4030007020 S. CERAMIC C1608 CH 1H 470J-T-A C73 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C75 4030006880 S. CERAMIC C1608 CH 1H 120J-T-A C76 4030010000 S. CERAMIC C1608 CH 1H 510J-T-A C77 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C78 4610001170 S. TRIMMER ECR-JA006 A12W C79 4030007090 S. CERAMIC C1608 CH 1H 470J-T-A				
C69 4030007110 S. CERAMIC C1608 CH 1H 680J-T-A C70 4030007030 S. CERAMIC C1608 CH 1H 150J-T-A C71 4610001270 S. TRIMMER ECR-JA010 A12W C72 4030007090 S. CERAMIC C1608 CH 1H 470J-T-A C73 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C75 4030006880 S. CERAMIC C1608 CH 1H 120J-T-A C76 4030010000 S. CERAMIC C1608 CH 1H 510J-T-A C77 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C78 4610001170 S. TRIMMER ECR-JA006 A12W C79 4030007090 S. CERAMIC C1608 CH 1H 470J-T-A				
C71 4610001270 S. TRIMMER ECR-JA010 A12W C72 4030007090 S. CERAMIC C1608 CH 1H 470J-T-A C73 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C74 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C75 4030006880 S. CERAMIC C1608 JB 1H 472K-T-A C76 4030010000 S. CERAMIC C1608 CH 1H 510J-T-A C77 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A C78 4610001170 S. TRIMMER ECR-JA006 A12W C79 4030007090 S. CERAMIC C1608 CH 1H 470J-T-A	C69	4030007110		
C72				
C74				C1608 CH 1H 470J-T-A
C75				
C76				
C78	C76	4030010000	S. CERAMIC	C1608 CH 1H 510J-T-A
C79 4030007090 S. CERAMIC C1608 CH 1H 470J-T-A				
C80 4030007020 S. CERAMIC C1608 CH 1H 120J-T-A				C1608 CH 1H 470J-T-A
	C80	4030007020	S. CERAMIC	C1608 CH 1H 120J-T-A

REF. NO.	ORDER NO.	DI	ESCRIPTION
C81	4030006990	S. CERAMIC	C1608 CH 1H 080D-T-A
C82	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C84 C85	4030007090 4030006970	S. CERAMIC S. CERAMIC	C1608 CH 1H 470J-T-A C1608 CH 1H 060D-T-A
C85	4610001170	S. TRIMMER	ECR-JA006 A12W
C87	4030007070	S. CERAMIC	C1608 CH 1H 330J-T-A
C88	4030007020	S. CERAMIC	C1608 CH 1H 120J-T-A
C89	4030006970	S. CERAMIC	C1608 CH 1H 060D-T-A
C90	4030006880	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1C 473K-T-A
C91 C92	4030008920 4510004990	S. CEHAMIC ELECTROLYTIC	16 MV 100 HC
C92	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C94	4030006540	S. CERAMIC	C1608 SL 1H 030C-T-A
C95	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C96	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A C1608 SL 1H 030C-T-A
C97 C98	4030006540 4030006860	S. CERAMIC S. CERAMIC	C1608 SE 1H 030C-1-A
C99	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C100	4030006540	S. CERAMIC	C1608 SL 1H 030C-T-A
C101	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C102	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C103 C104	4030006540 4030006860	S. CERAMIC S. CERAMIC	C1608 SL 1H 030C-T-A C1608 JB 1H 102K-T-A
C104 C105	4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 472K-T-A
C106	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C107	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C108	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C109	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C110	4030006860 4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C111 C112	4030006720	S. CERAMIC	C1608 SL 1H 560J-T-A
C113	4030006840	S. CERAMIC	C1608 SL 1H 391J-T-A
C114	4030006700	S. CERAMIC	C1608 SL 1H 390J-T-A
C115	4030009230	S. CERAMIC	C1608 SL 1H 240J-T-A
C116	4030006590	S. CERAMIC	C1608 SL 1H 080D-T-A
C117 C118	4030006710 4030006880	S. CERAMIC S. CERAMIC	C1608 SL 1H 470J-T-A C1608 JB 1H 472K-T-A
C119	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C120	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C124	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C126	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C127 C128	4030006860 4030006880	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 472K-T-A
C129	4030008860	S. CERAMIC	C2012 JB 1C 104K-T-A
C130	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C132	4030006750	S. CERAMIC	C1608 SL 1H 101J-T-A
C134	4030006720	S. CERAMIC	C1608 SL 1H 560J-T-A
C135	4030006550	S. CERAMIC	C1608 SL 1H 040C-T-A
C136 C137	4030006620 4030006730	S. CERAMIC S. CERAMIC	C1608 SL 1H 120J-T-A C1608 SL 1H 680J-T-A
C138	4030006730	S. CERAMIC	C1608 SL 1H 560J-T-A
C139	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C141	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C143	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A
C144 C145	4030008920 4030008920	S. CERAMIC S. CERAMIC	C1608 JB 1C 4/3K-1-A C1608 JB 1C 4/3K-T-A
C145	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C147	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C148	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C149	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C150 C151	4030008920 4030008920	S. CERAMIC S. CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A
C151	4030008920	S. CERAMIC S. CERAMIC	C1608 JB 1C 473K-T-A
C153	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C155	4030008920	S. CERAMIC	C1608 JB 1C 473K-T-A
C156	4030006660	S. CERAMIC	C1608 SL 1H 220J-T-A
C157	4030006700	S. CERAMIC	C1608 SL 1H 390J-T-A
C158 C159	4030006860 4030006860	S. CERAMIC S. CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C160	4030006880	S. CERAMIC	C1608 JB 1H 102K-T-A
C161	4030006880	S. CERAMIC	C1608 JB 1H 472K-T-A
C162	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
C163	4030006860	S. CERAMIC	C1608 JB 1H 102K-T-A
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[PLL UNIT]

REF. NO.	ORDER NO.		DESCRIPTION	
J3 J4	6510016030 6510007020	CONNECTOR CONNECTOR	52089-1620 TMP-J01X-V6	
EP1	0910039593	РСВ	B 3858C (PLL)	

[PA UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION
Q1	1530000790	TRANSISTOR	2SC1971
02	1530000190	TRANSISTOR	2SC3133
Q3	1530000190	TRANSISTOR	2SC3133
Q4	1530000200	TRANSISTOR	2SC2904
Q5	1530000200	TRANSISTOR	2SC2904
Q6	1540000200	TRANSISTOR	2SD1406 Y
			·
D1	1790000710	VARISTOR	MA29B
D2	1790000710	VARISTOR	MA29B
D3	1790000710	VARISTOR	MA29B
D4	1710000010	DIODE	15CD11
L1	6140001170	COIL	LR-142
12	6140001300	COIL	LR-155
L3	6140001310	COIL	LR-156
L4	6140002540	COIL	LR-292
L5	6140002030	COIL	LR-230 (SK-10M-15Y 120)
L6	6910000670	COIL	BT01RN1-A61-001
L7	6910000670	COIL	BT01RN1-A61-001
L8	6910000670	COIL	BT01RN1-A61-001
L11	6910000670	COIL	BT01RN1-A61-001
L14	6180001230	COIL	LAL 04NA 8R2K
L17	6910000670	COIL	BT01RN1-A61-001
L18	6910000670	COIL	BT01RN1-A61-001
R1	7010004130	RESISTOR	R20J 330 Ω
R2	7010004110	RESISTOR	R20J 220 Ω
R3	7010003360	RESISTOR	ELR20J 470 Ω
R4	7010004830	RESISTOR	R50XJ 4.7 Ω
R5	7010004120	RESISTOR	R20J 270 Ω
R6	7010003300	RESISTOR	ELR20J 150 Ω
R7	7010004030	RESISTOR	R20J 47 Ω
R8	7010004030	RESISTOR	R20J 47 Ω
R9	7010004730	RESISTOR	R50XJ 120 Ω
R10	7010004730	RESISTOR	R50XJ 120 Ω
R11	7070000320	RESISTOR	CRH100X R-02J 3.3 Ω (3R3)
R12	7070000320	RESISTOR	CRH100X R-02J 3.3 Ω (3R3)
R13	7070000320	RESISTOR	CRH100X R-02J 3.3 Ω (3R3)
R14	7070000320	RESISTOR	CRH100X R-02J 3.3 Ω (3R3)
R15	7070000320	RESISTOR	CRH100X R-02J 3.3 Ω (3R3)
R16	7070000320	RESISTOR	CRH100X R-02J 3.3 Ω (3R3)
R17	7010004650	RESISTOR	R50XJ 10 Ω
R18	7010004650	RESISTOR	R50XJ 10 Ω
R19	7070000520	RESISTOR	CRH300 R-02J 2.7 Ω (2R7)
R20	7010004720	RESISTOR	R50XJ 100 Ω
R21	7310000700	TRIMMER	RH0651CS2J1HA (471)
R22	7010004650	RESISTOR	R50XJ 10 Ω
R23	7010005240	RESISTOR	R50XJ 820 Ω
R24	7310000720	TRIMMER	RH0651CJ3J0CA (222)
R25	7100000640	RESISTOR	5 SI 0.012 Ω (J)
R26	7010003400	RESISTOR	ELR20J 1 kΩ

[PA UNIT]

[PA UNIT]			
REF. NO.	ORDER NO.	DESCRIPTION	
R27 R29	7010003400 7510000070	RESISTOR THERMISTOR	ELR20J 1 kΩ ERT-D2FHL 503S
C1	4010000520	CERAMIC	DD108 B 472K 50V
C2	4040000250	BARRIER	UAT 08X 473M
C3 C4	4010000510 4040000250	CERAMIC BARRIER	DD106 B 222K 50V UAT 08X 473M
C5	4310000610	MYLAR	50 F2D 472J
C6	4310000610	MYLAR	50 F2D 472J
C8	4320000520	DIP MICA	DM20C152J5-N
C9	4040000170	BARRIER	UAT 05X 682K
C10 C11	4040000170 4010004120	BARRIER CERAMIC	UAT 05X 682K DD07 B 102K 500V
C13	4010004120	CERAMIC	DD12 SL 221K 500V
C14	4010004070	CERAMIC	DD12 SL 221K 500V
C15	4320000500	DIP MICA	DM20C122J5-N
C16	4320000220 4040000250	DIP MICA BARRIER	DM19C 681J5 UAT 08X 473M
C17 C19	4040000250	BARRIER	UAT 08X 473M
C20	4510003910	ELECTROLYTIC	16 MV 47 HW
C21	4040000250	BARRIER	UAT 08X 473M
C22	4010000500	CERAMIC	DD104 B 102K 50V
C23	4040000250	BARRIER	UAT 08X 473M UAT 08X 473M
C24 C25	4040000250 4040000250	BARRIER BARRIER	UAT 08X 473M
C26	4510003910	ELECTROLYTIC	16 MV 47 HW
C27	4510004600	ELECTROLYTIC	16 MV 1000 HC
C28	4010000520	CERAMIC	DD108 B 472K 50V
C29 C30	4040000260 4010000380	BARRIER CERAMIC	UZE 08X 104M DD107 SL 221J 50V
C31	4040000350	BARRIER	UAT 08X 473M
C32	4510004600	ELECTROLYTIC	16 MV 1000 HC
C33	4010000520	CERAMIC	DD108 B 472K 50V
C34	4010000380	CERAMIC	DD107 SL 221J 50V
C35 C36	4040000260 4040000170	BARRIER BARRIER	UZE 08X 104M UAT 05X 682K
C37	4040000170	BARRIER	UAT 05X 682K
C38	4040000250	BARRIER	UAT 08X 473M
C39	4040000250	BARRIER	UAT 08X 473M
C40 C41	4040000250 4040000250	BARRIER BARRIER	UAT 08X 473M UAT 08X 473M
C41	4510004600	ELECTROLYTIC	16 MV 1000 HC
C45	4010000520	CERAMIC	DD108 B 472K 50V
C46	4010000520	CERAMIC	DD108 B 472K 50V
C47	4010000520	CERAMIC CYLINDER	DD108 B 472K 50V UP125 X 472M
C48	4020000250	CTLINDER	UP125 X 4/2M
F1 F2	5210000130 5220000020	FUSE HOLDER	FGB 4A S-N5051
F3	5220000020	HOLDER	S-N5051
•	02200000		
J8	6510006790	CONNECTOR	TSL-P03P-V2
J9	6510006790	CONNECTOR	TSL-P03P-V2
J10	6510006790	CONNECTOR	TSL-P03P-V2
J11 J12	6510006790 6510003080	CONNECTOR	TSL-P03P-V2 RT01T-1.0B
J13	6510003080	CONNECTOR	RT01T-1.0B
J14	6510004880	CONNECTOR	MR-DS-E 01 [ANT]
EP1	6910000610	BEAD	FSOH050RN01
EP2	6910000610	BEAD	FSOH050RN01
EP5	6910000610	BEAD BEAD	FSOH050RN01 FSOH050RN01
EP6 EP7	6910000610 6910000600	BEAD	FSOH050RN
EP8	6910000600	BEAD	FSOH050RN
EP9	6910000630	BEAD	FSOH070RN
EP10	6910000630	BEAD PCB	FSOH070RN B 3860D (PA)
EP11 EP13	0910039454 6910000310		B312D INSULATION BUSH
EP14	6910000340	SHEET	P101 KD (Insulating sheet)

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REF. NO.	ORDER NO.	I	DESCRIPTION	REF. NO.	ORDER NO.		DESCRIPTION
D1	1710000030	DIODE	1S1555	C21	4010000460	CERAMIC	DD104 B 471K 50V
D2	1710000030	DIODE	1S1555	C22	4320000520	DIP MICA	DM20C152J5-N
D3	1710000030	DIODE	1\$1555	C23	4010004080	CERAMIC	DD12 SL 271K 500V
D4	1710000030	DIODE	1S1555	C24	4010004080	CERAMIC	DD12 SL 271K 500V
D5	1710000030	DIODE	1\$1555	C25	4320000510	DIP MICA	DM20C272J5-N
D6	1710000030	DIODE	1\$1555	C26	4010004030	CERAMIC	DD10 SL 121K 500V
D7	1710000030	DIODE	1S1555	C27	4320000520	DIP MICA	DM20C152J5-N
D8	1790000070	DIODE	188237	C28	4010004070	CERAMIC	DD12 SL 221K 500V
D9	1790000070	DIODE	1SS237	C29	4010004050	CERAMIC	DD12 SL 181K 500V
				C30	4010004040	CERAMIC	DD10 SL 151K 500V
				C31	4010004070	CERAMIC	DD12 SL 221K 500V
L1	6140001990	COIL	LR-226	C32	4320000500	DIP MICA	DM20C122J5-N
L2	6140002000	COIL	LR-227	C33	4010003990	CERAMIC	DD09 SL 680K 500V
L3	6140001780	COIL	LR-214	C34	4010004070	CERAMIC	DD12 SL 221K 500V
L4	6140001790	COIL	LR-215	C35	4010004070	CERAMIC	DD12 SL 221K 500V
L5	6140001800	COIL	LR-216	C36	4010004070	CERAMIC	DD12 SL 221K 500V
L6	6140001800	COIL	LR-216	C37	4010004050	CERAMIC	DD12 SL 181K 500V
L7	6140002560	COIL	LR-293	C38	4010004030	CERAMIC	DD10 SL 121K 500V
L.8	6140002560	COIL	LR-293	C39	4010004030	CERAMIC	DD10 SL 121K 500V
L9	6110002920	COIL	LA-481	C40	4010004070	CERAMIC	DD12 SL 221K 500V
L10	6110002910	COIL	LA-480	C41	4010004070	CERAMIC	DD12 SL 221K 500V
L11	6110002890	COIL	LA-478	C42	4010004070	CERAMIC	DD12 SL 221K 500V
L12	6110002900	COIL	LA-479	C43	4010004680	CERAMIC	DD09 SL 750K 500V
L13	6140002530	COIL	LR-291	C44	4010004050	CERAMIC	DD12 SL 181K 500V
L14	6140002520	COIL	LR-290	C45	4010004070	CERAMIC	DD12 SL 221K 500V
L15	6180000900	COIL	LAL 03NA 101K	C46	4010004060	CERAMIC	DD12 SL 201K 500V
L16	6180000900	COIL	LAL 03NA 101K	C47	4010004010	CERAMIC	DD09 SL 101K 500V
L17	6180000900	COIL	LAL 03NA 101K	C48	4010003990	CERAMIC	DD09 SL 680K 500V
L18	6180000900	COIL	LAL 03NA 101K	C49	4010004040	CERAMIC	DD10 SL 151K 500V
L19	6180000900	COIL	LAL 03NA 101K	C50	4010003990	CERAMIC	DD09 SL 680K 500V
L20	6180000900	COIL	LAL 03NA 101K	C51	4010004030	CERAMIC	DD10 SL 121K 500V
L21	6180000900	COIL	LAL 03NA 101K	C52	4010004010	CERAMIC	DD09 SL 101K 500V
L22	6180000900	COIL	LAL 03NA 101K	C53	4010003910	CERAMIC	DD06 SL 220K 500V
L23	6180000900	COIL	LAL 03NA 101K	C54	4010004050	CERAMIC	DD12 SL 181K 500V
L24	6180000880	COIL	LAL 03NA 100K	C55	4010003980	CERAMIC	DD09 SL 560K 500V
L25	6180000880	COIL	LAL 03NA 100K	C56	4010004680	CERAMIC	DD09 SL 750K 500V
L26	6180000880	COIL	LAL 03NA 100K	C57	4010004680	CERAMIC	DD09 SL 750K 500V
L27	6180000880	COIL	LAL 03NA 100K	C58	4010003960	CERAMIC	DD06 SL 390K 500V
L28	6180000900	COIL	LAL 03NA 101K	C59	4010004040	CERAMIC	DD10 SL 151K 500V
L29	6180000900	COIL	LAL 03NA 101K	C60	4010003870	CERAMIC	DD06 SL 120K 500V
L30	6140001810	COIL	LR-217	C61	4010003970	CERAMIC	DD07 SL 470K 500V
L31	6170000380	COIL	LW-26	C62	4010004680	CERAMIC	DD09 SL 750K 500V
				C63	4010000450	CERAMIC	DD104 B 331K 50V
R1	7540000100	ABSORBER	SRYH-350L				
R2	7010004390	RESISTOR	R20J 33 kΩ	RL1	6330000180	RELAY	MZ-12HG
R3	7010003220	RESISTOR	ELR20J 33 Ω	RL2	6330000180	RELAY	MZ-12HG
R4	7010004320	RESISTOR	R20J 10 kΩ	RL3	6330000180	RELAY	MZ-12HG
R5	7010004320	RESISTOR	R20J 10 kΩ	RL4	6330000180	RELAY	MZ-12HG
R6	7010003530	RESISTOR	ELR20J 10 kΩ	RL5	6330000180	RELAY	MZ-12HG
R7	7010003530	RESISTOR	ELR20J 10 kΩ	RL6	6330000180	RELAY	MZ-12HG
R8	7010003620	RESISTOR	ELR20J 47 kΩ	RL7	6330000180	RELAY	MZ-12HG
R9	7010003620	RESISTOR	ELR20J 47 kΩ	RL8	6330000180	RELAY	MZ-12HG
]				RL9	6330000180	RELAY	MZ-12HG
[]	40.40000	5455:	HAT 00V (7014	RL10	6330000180	RELAY	MZ-12HG
C1	4040000250	BARRIER	UAT 08X 473M	RL11	6330000180	RELAY	MZ-12HG
C2	4040000250	BARRIER	UAT 08X 473M	RL12	6330000180	RELAY	MZ-12HG
C3	4040000250	BARRIER	UAT 08X 473M	RL13	6330000720	RELAY	DS1-M-DC12V (AG2013)
C4	4040000250	BARRIER	UAT 08X 473M				i
C5	4040000250	BARRIER	UAT 08X 473M	ا ا	6510007000	CONNECTOR	TMP, IO1V VE
C6	4040000250	BARRIER	UAT 08X 473M	J3	6510007020	CONNECTOR	TMP-J01X-V6
C7	4040000250	BARRIER	UAT 08X 473M				
C8	4040000250	BARRIER	UAT 08X 473M DD108 B 472K 50V	W ₁	7120000010	JUMPER	JPW 02A
C9	4010000520 4010000520	CERAMIC CERAMIC	DD108 B 472K 50V DD108 B 472K 50V	W2	7120000010	JUMPER	JPW 02H
C10 C11	4010000520	CERAMIC	DD108 B 472K 50V	W3	7120000020	JUMPER	JPW 02A
C12	4010000520	CERAMIC	DD108 B 472K 50V	""	, 12000010	VOINT LIT	J1 77 VEN
	4040000250	BARRIER	UAT 08X 473M				
C13 C14	4040000250	CERAMIC	DD105 SL 101J 50V	EP1	0910039606	РСВ	B 3861F (FILTER)
C14	4010000330		DD105 SL 1013 50V DD104 SL 100D 50V	=	0010000000	. 05	J JOON (I IEI EII)
	4010000120	CERAMIC CERAMIC	DD104 SL 100D 50V DD105 SL 101J 50V				
C16 C17	4610001000	TRIMMER	CVSSA0701				
C17	4010001000	CERAMIC	DD106 SL 181J 50V				
C19	4010000360	CERAMIC	DD106 SL 1813 50V DD104 B 331K 50V		ľ		
C20	4010000450	CERAMIC	DD104 B 331K 50V DD104 B 471K 50V				
	.0.000400	32.3.1110					·

S.=Surface mount

SECTION 7 MECHANICAL PARTS

7-1 FRONT, CABINET PARTS AND ACCESSORIES

• FRONT AND CABINET PARTS

LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.
1	8110005030	963 U-cover	1
2	8810004320	Screw OH M3×8 ZK BS	12
3	8930028270	963 LCD rubber	1
4	8010014690	963 sub chassis	1
5	8810007970	Screw PH BT M3×6 NI	4
6	5030000980	LCD LD-BU5637EZ [FUNCTION DISPLAY]	1
7	8930028280	963 LCD filter	1
8	8930028260	963 LCD holder	1
9	8810003350	Setscrew C M3×5	1
10	8810003350	Setscrew C M3×5	1
1	8610002380	Knob N105 [AF, RIT]	2
(12)	8610002390	Knob N106 [SQL]	1
(13)	2260002010	Switch MSR5-2#1 [POWER]	1
14	8810007750	Screw PH B1 M3 × 18 ZK	1
(15)	8610005770	Knob N148 [CHANNEL SELECTOR]	1
16	8930028290	963 key cap	1
17)	8210009510	963 front panel complete (incl. (8-21)	1
18	8610008690	Button K203 [TUNER]	1
19	8610008680	Button K204 [LOCK]	1
20	8610008670	Button K205 [RIT, FC etc.]	2
21)	8810000990	Screw PH B0 M2×5	4
22	8810007700	Screw FH B1 M3×6	4
23	8930030160	963 A knob sheet	11
24	8930030180	963 C knob sheet	1
25	8930030170	963 B knob sheet	2
26	8510008340	963 plate	1
27	2510000670	Speaker VS-50-0827	1
28	8930028300	963 SP holder	1
29	8810007970	Screw PH BT M3×6 NI	4
30	8930030140	963 SP sponge	1
31)	8110005010	610 bottom cover (complete)	1

Screw abbreviations

PH: Pan head FH: Flat head OH: Oval countersunk head

B0, B1, BT: Self-tapping BS: Brass NI: Nickel ZK: Black

• ACCESSORIES

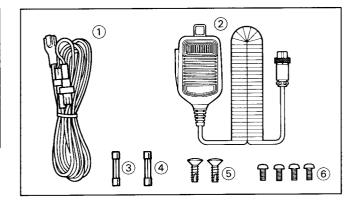
LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.
1	8900000220	DC power cable OPC-025 A	1
2	Optional product	HM-36 HAND MICROPHONE	1
3	5210000080	Spare fuse FGB 20A	1
4	5210000130	Spare fuse FGB 4A	1
(5)	8810005500	Screw OH B1 M4×12 CR	2
6	8810001650	Screw PH FT M3×6	4

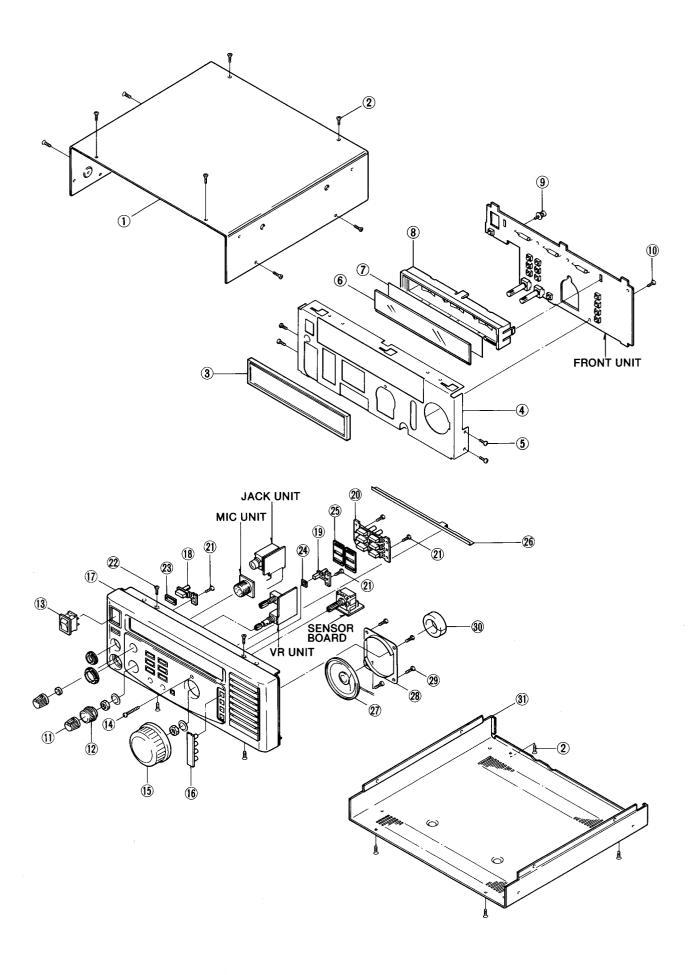
Screw abbreviations

PH: Pan head

OH: Oval countersunk head

B1: Self-tapping screw



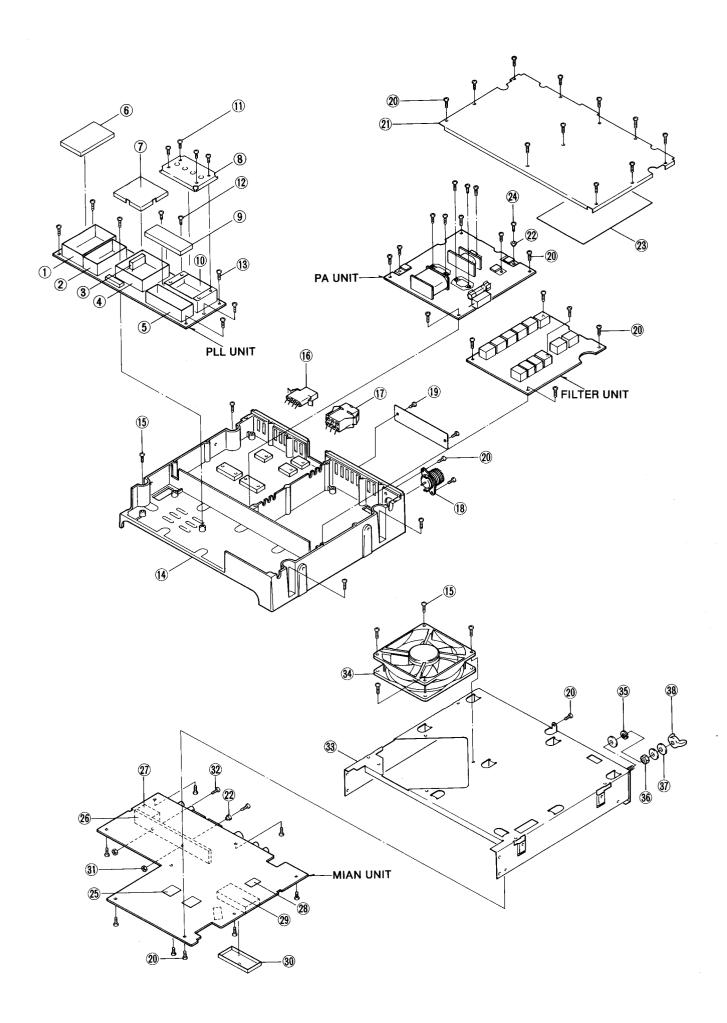


7-2 CHASSIS PARTS

LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.
1	8510001080	Shield case (A)	1
2	8510000230	220 shield case	1
3	8510005330	Coil shield case	1
4	8510008300	963 DDS shield case	1
<u>(5)</u>	8510001060	Shield case	1
6	8510001101	Shield case (A) cover (A) -1	1
7	8510008310	963 DDS shield case	1
8	8510008540	963 shield case	1
9	8510001740	Shield case cover	1
10	8510008530	963 shield case	. 1
11)	8810003960	Setscrew A M2.6×5	4
12	8810003160	Setscrew A M3×6	3
13)	8810007970	Screw PH BT M3×6 NI	5
14)	8410001871	963 heatsink-1	1
(15)	8810005540	Screw PH B1 M4×10	4
16	8600031150	Connector P03*J01CH [TUNER]	1
17	8600031240	Connector J01PA [DC 13.8 V]	1
18	6510004880	Connector MR-DS-E 01 [ANT]	1
(19)	8810005530	Screw PH ST M2.6×6 NI	2
20	8810007970	Screw PH BT M3×6 NI	32
21)	8110005020	963 PA cover	1
22)	6910000310	Insulate bushing B312D	2
23	8930005480	Insulating plate I	1
24	8810000230	Screw PH M3×6	8
25	8510008740	963 shield plate	2
26	8410000770	AF heatsink-1	1
27	8510002200	VCO shield case	1
28	8510002280	VCO shield plate (A)	2
29	8510000230	220 shield case	1
30	8510000241	220 shield case cover -1	1
31)	8830000100	Nut M3	2
32	8810003170	Setscrew A M3×8	2
33	8010014680	963 main chassis	1
34)	2710000330	Fan FBA08A12HA	1
35)	8850000440	Spring washer M5 NI	1
36	8830000210	Nut M5 NI BS	1
37)	8850000150	Flat washer M5 NI BS	3
38	8830000360	Wing nut M5 NI [GND]	1

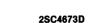
Screw abbreviations PH: Pan head B1, BT, ST: Self-tapping

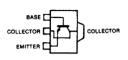
NI: Nickel



BOARD LAYOUTS SECTION 8

8-1 MAIN UNIT





(Symbol: C0)

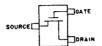
Q1, Q5

3SK126 0



Q2, Q3, Q9, Q28, Q46

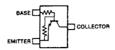
2SK882 GR (Symbol: TG)



Q4, Q8, Q10, Q12, Q13, Q45

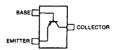
DTC114EU

(Symbol: 24)



Q6, Q7, Q16, Q18, Q21, Q29, Q31, Q32, Q38, Q41, Q47, Q51, Q55,

2SA1576 R (Symbol: FR)



Q11, Q50, Q68

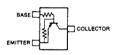
(Symbol: UC)



Q56, Q60, Q63, Q65,

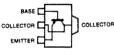
Q69, Q71, Q75, Q77

DTA114EU (Symbol: 14)



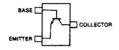
Q14, Q15, Q24, Q30, Q40, Q61, Q70, Q72

2SB798 DK (Symbol: DK)



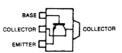
Q17

2SC4081 R (Symbol: BR)



Q25, Q33, Q34, Q35, Q36, Q37, Q39, Q44, Q48, Q58, Q59, Q62, Q64, Q67, Q74

2SD999 CK (Symbol: CK)



Q52, Q53, Q54, Q66, Q73

2SC4213 B

(Symbol: AB)

COLLECTOR

(Symbol: M1I)

MA862

D1, D2, D3, D4, D5, D10, D11, D33, D35, D36, D38, D41, D42, D45, D46, D49, D50, D53, D55, D57

2SK2171 4 (No Symbol)



Q22, Q23, Q26, Q27

DAN202U

(Symbol: N)



D6, D7, D8, D9, D18, D20, D21, D23, D25, D26, D31, D32, D59, D61, D62, D64, D67, D68, D70, D72, D73, D74, D76, D78, D80, D81, D83, D85, D86, D87, D88, D89, D90, D93, D96, D97, D98, D99, D100, D104, D108, D110, D112, D114,

HSM88ASR (Symbol: C3)



D15, D65, D71, D91

DAP202U

(Symbol: P)





D82

RD5.6M B2 (Symbol: 562)



D125

D127, D128

D115, D122, D123,

D17, D19, D22, D24, D63, D84, D101, D102, D106, D116, D117, D118, D119, D120,

D121

RD5.1M B2 (Symbol: 512)

Q57, Q76





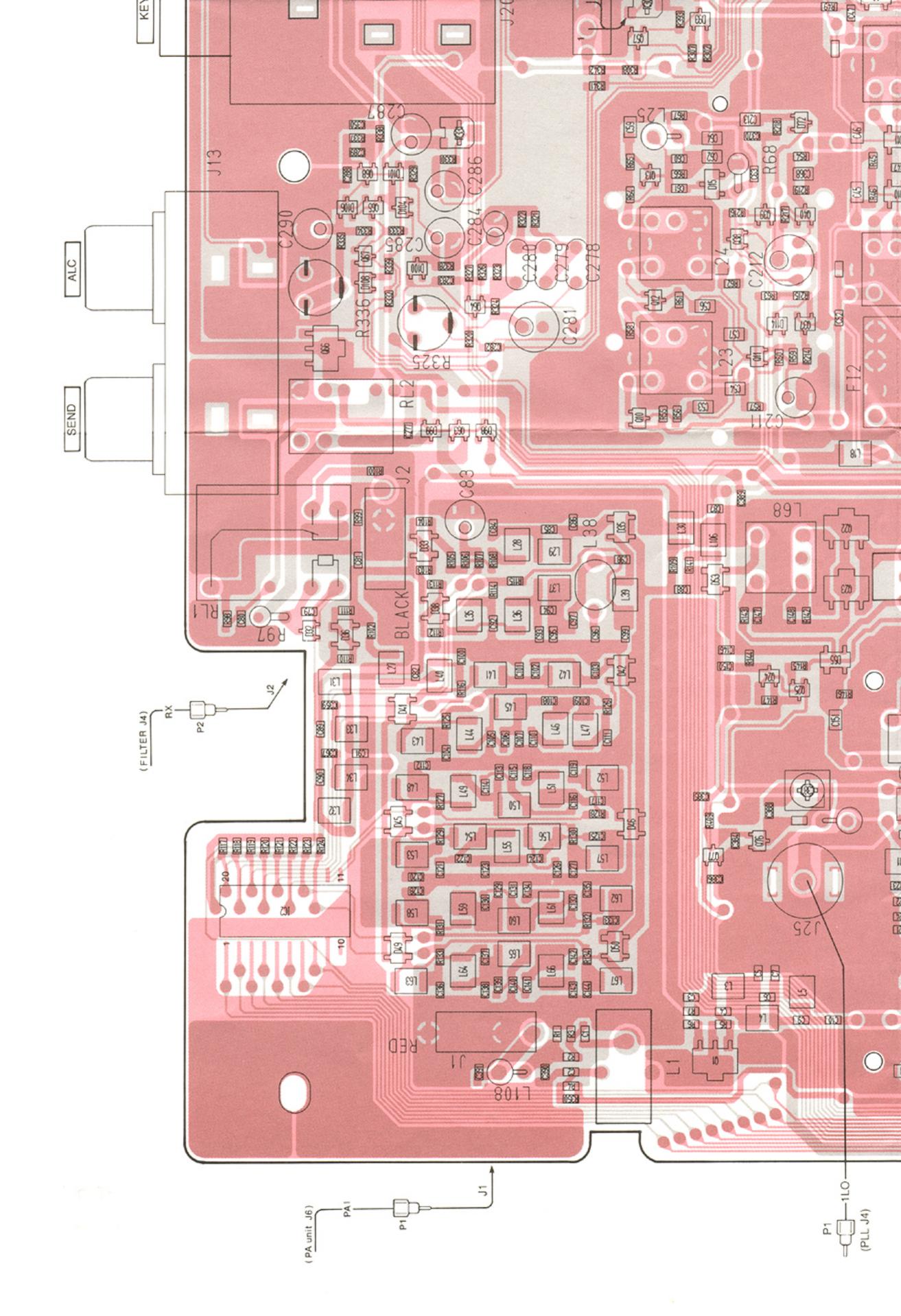


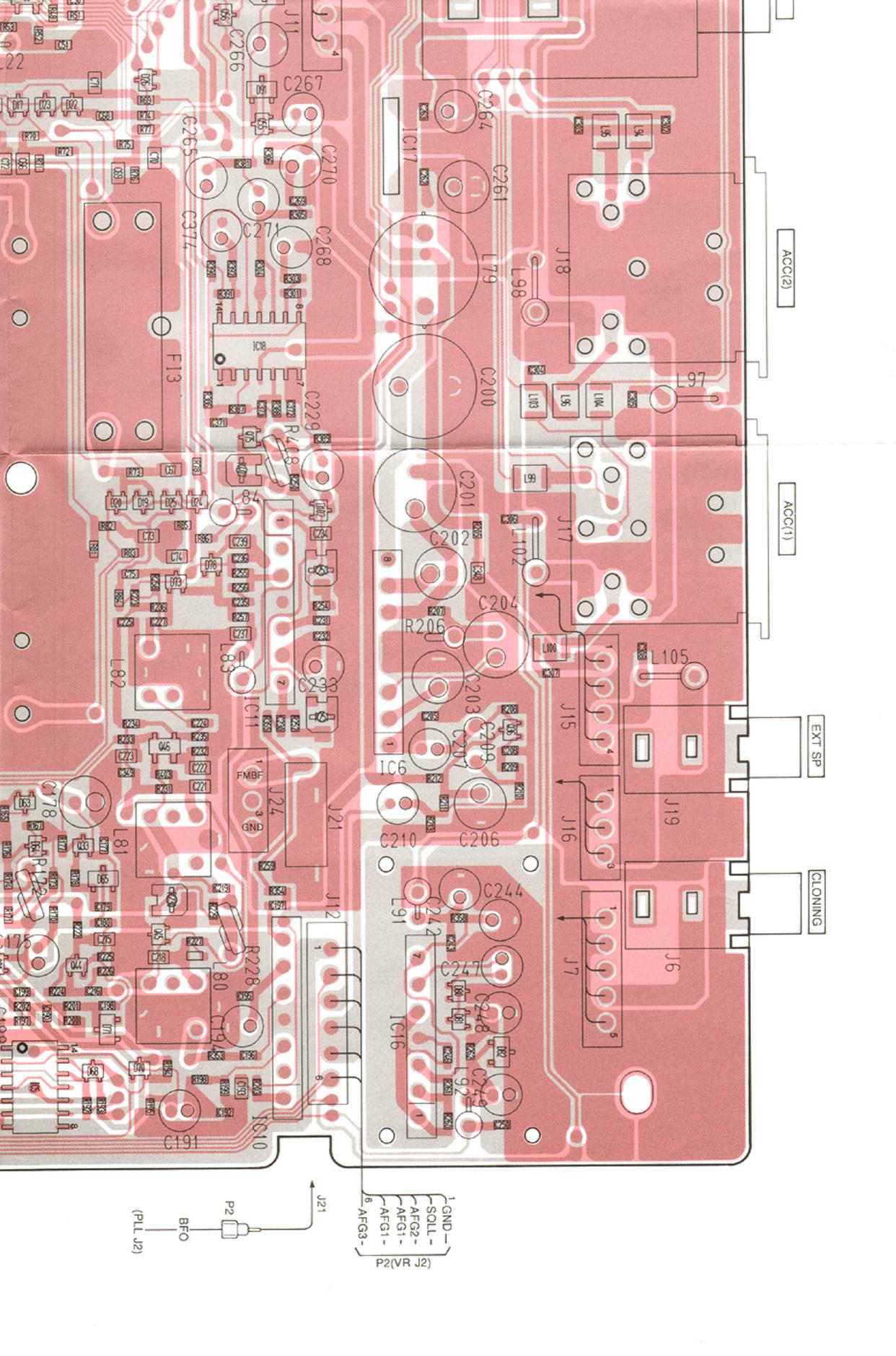
D124

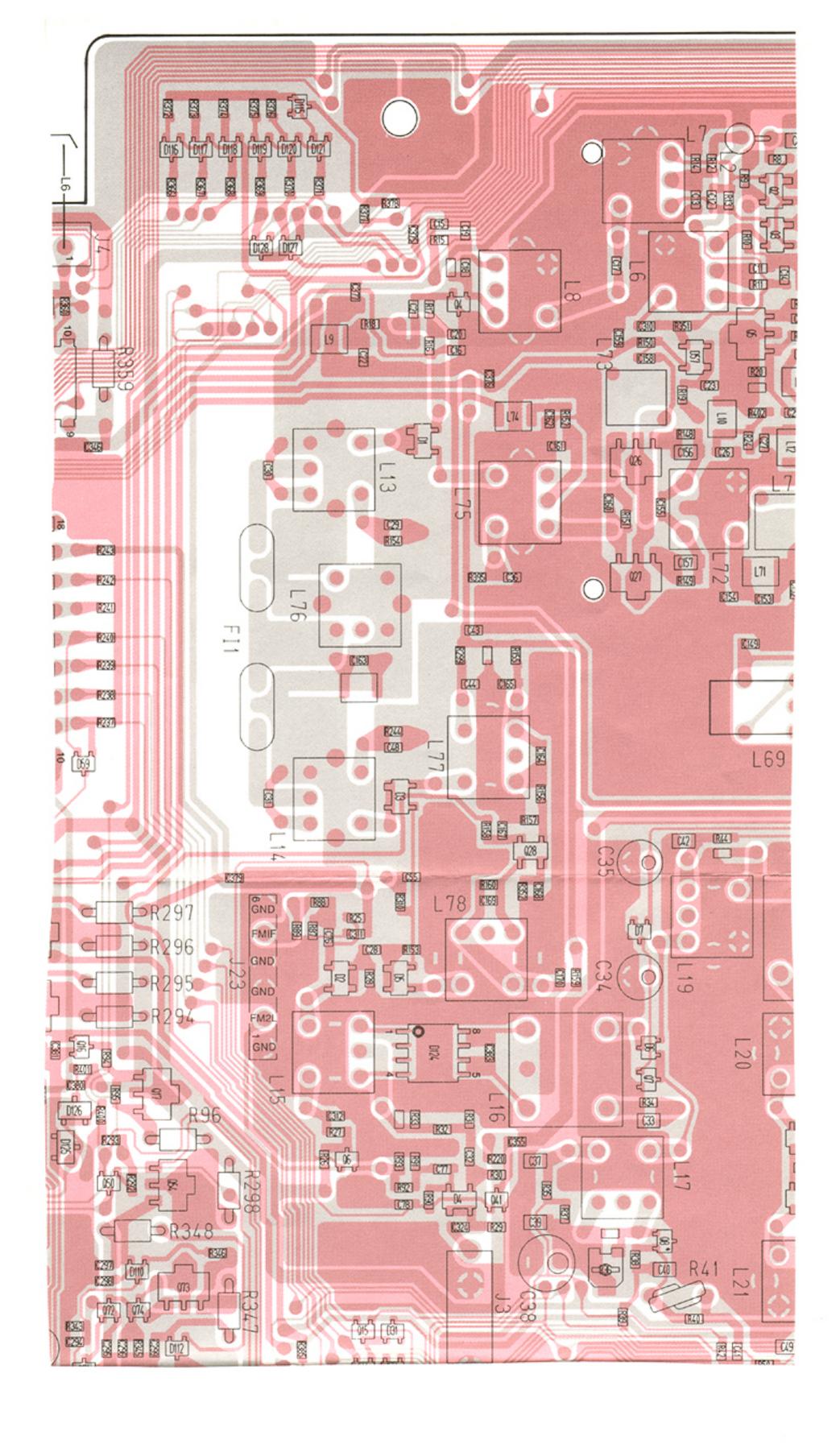
RD6.2M B2 (Symbol: 622)

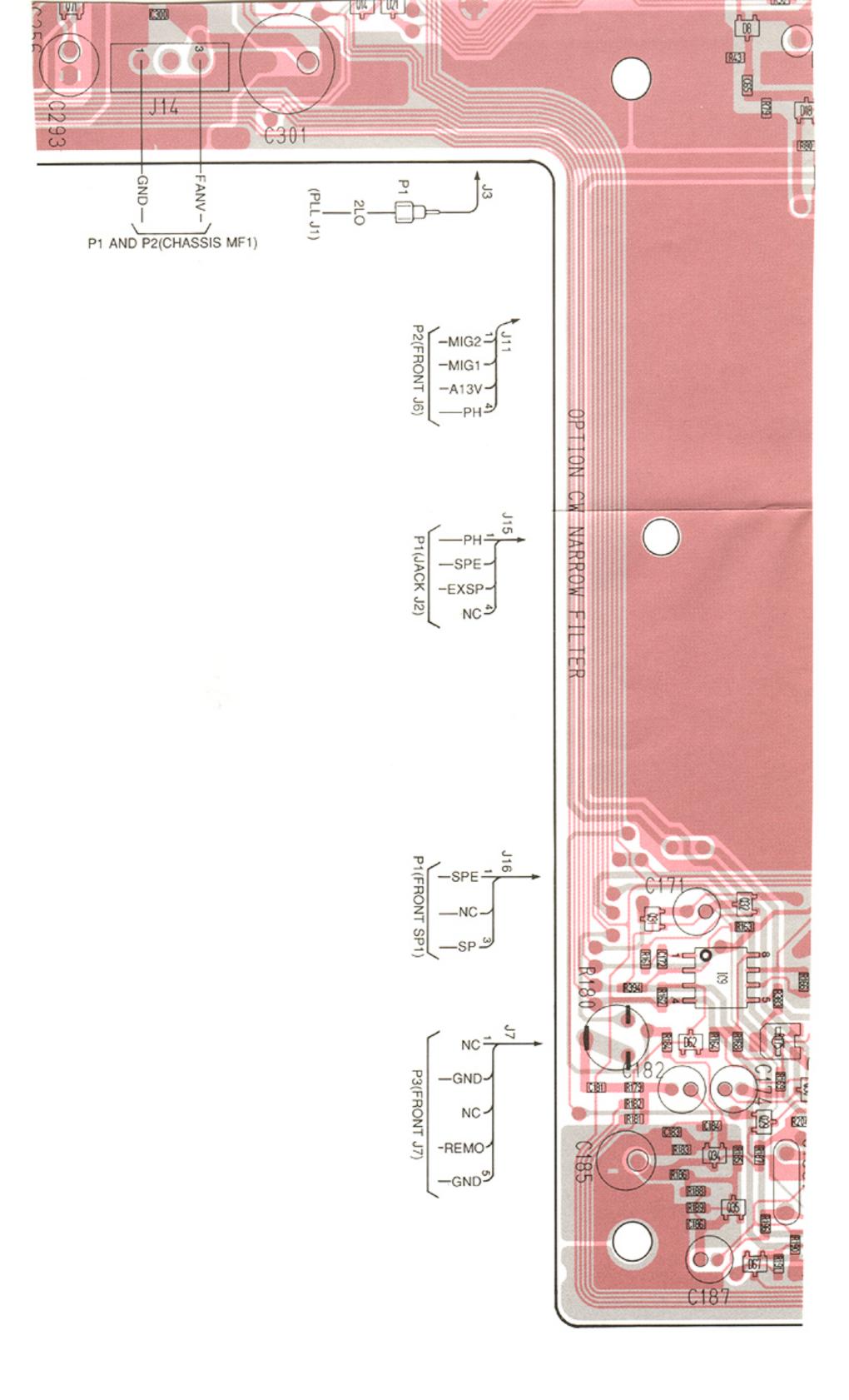


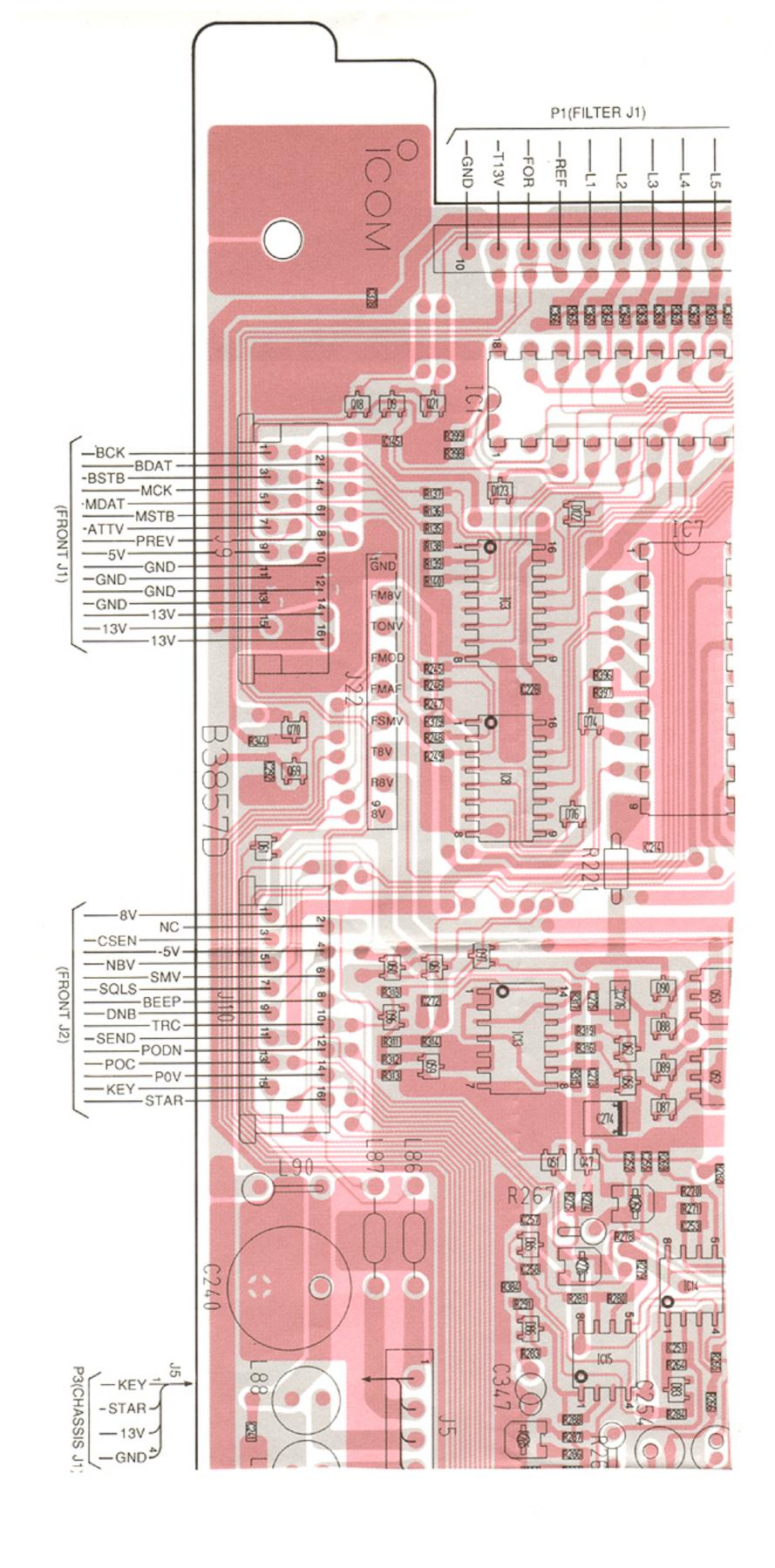
D126

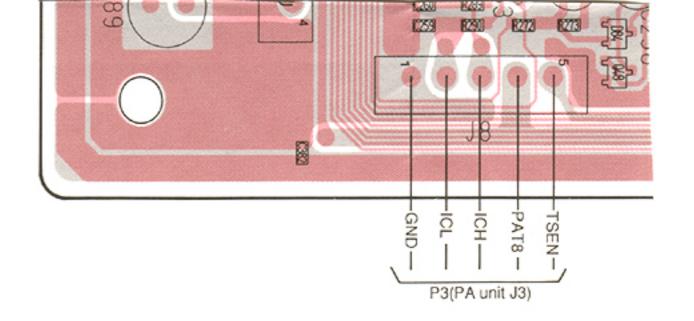








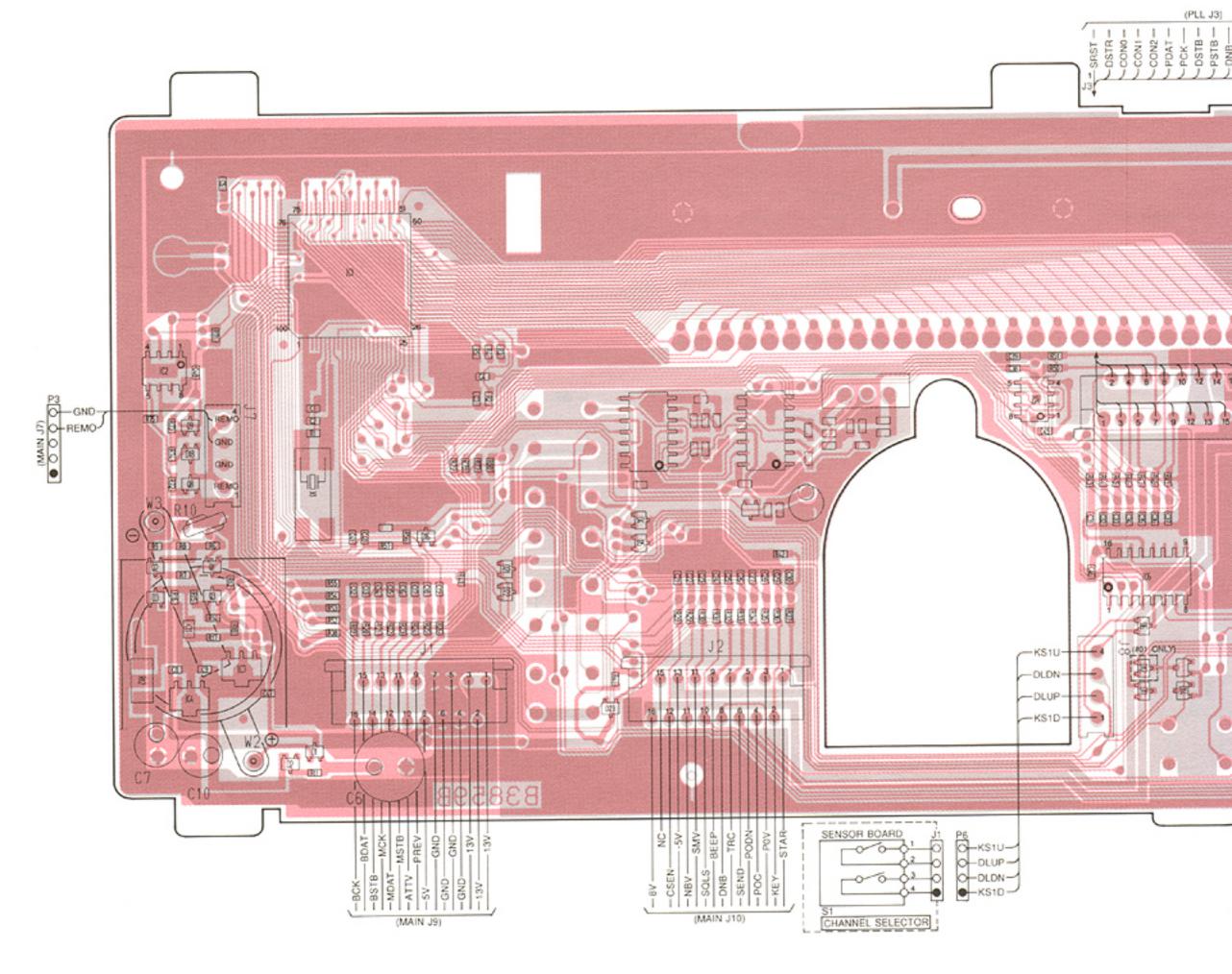


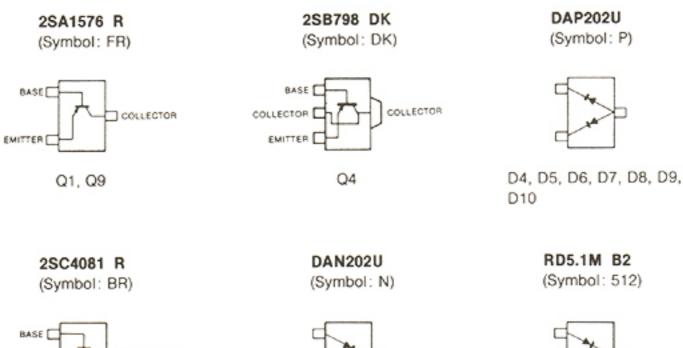


8 - 2

8-2 FRONT, VR AND JACK UNITS

FRONT UNIT





D1, D2, D3, D11, D12 (#01), D14, D15, D16, D18, D21, D22,

D23

D17

COLLECTOR

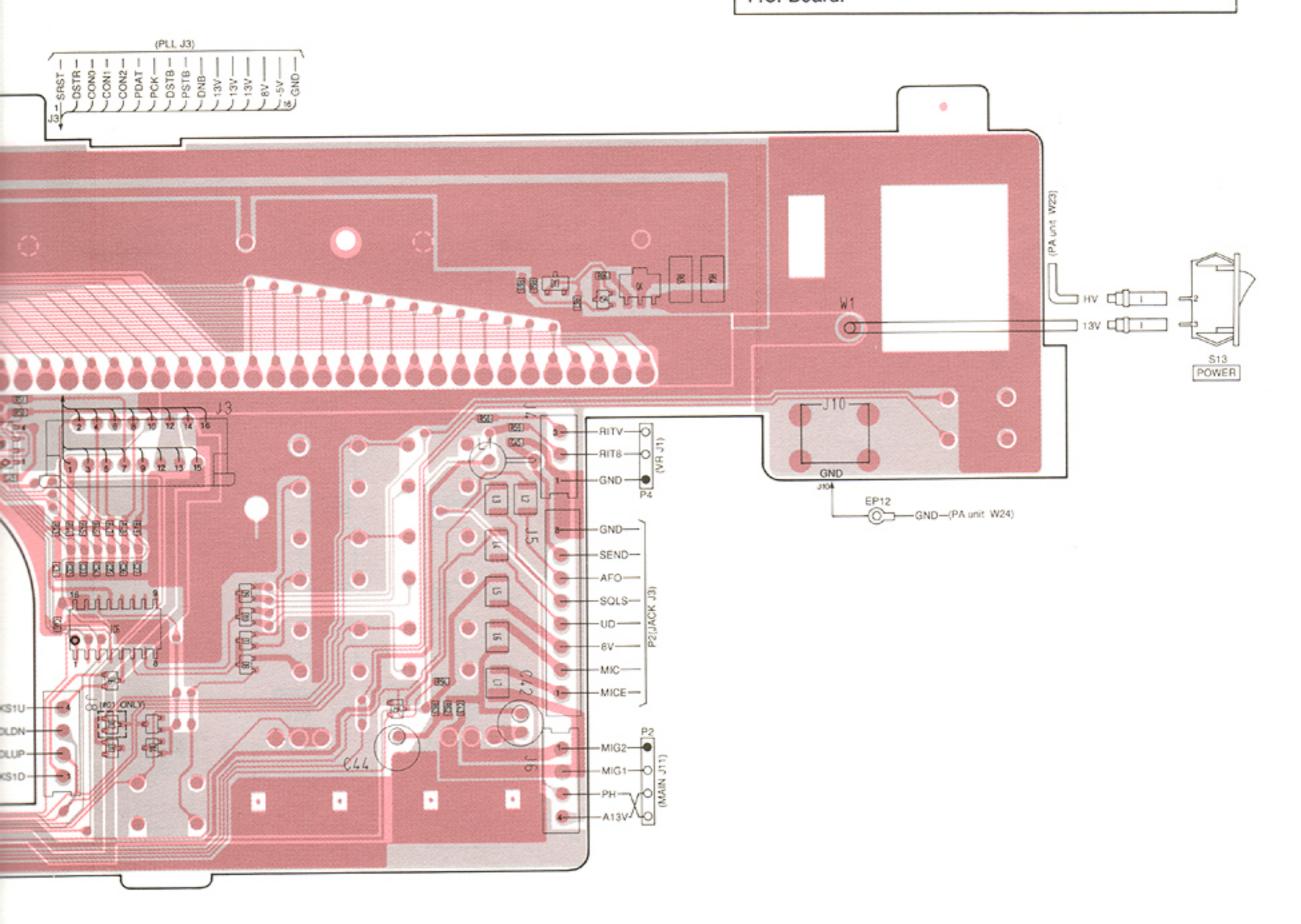
EMITTER [

Q2, Q3, Q5, Q8

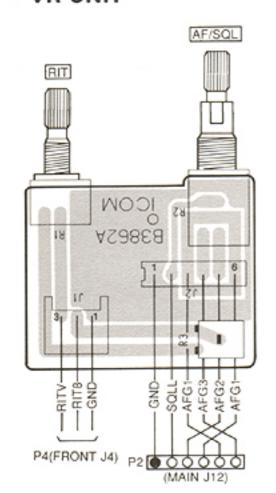


VR UNIT

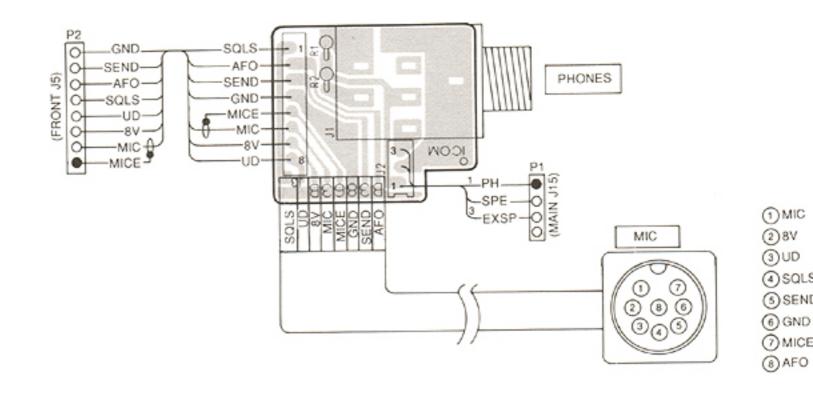
The combination of this page and the next page show the unit layout in the same configuration as the actual P.C. Board.



VR UNIT

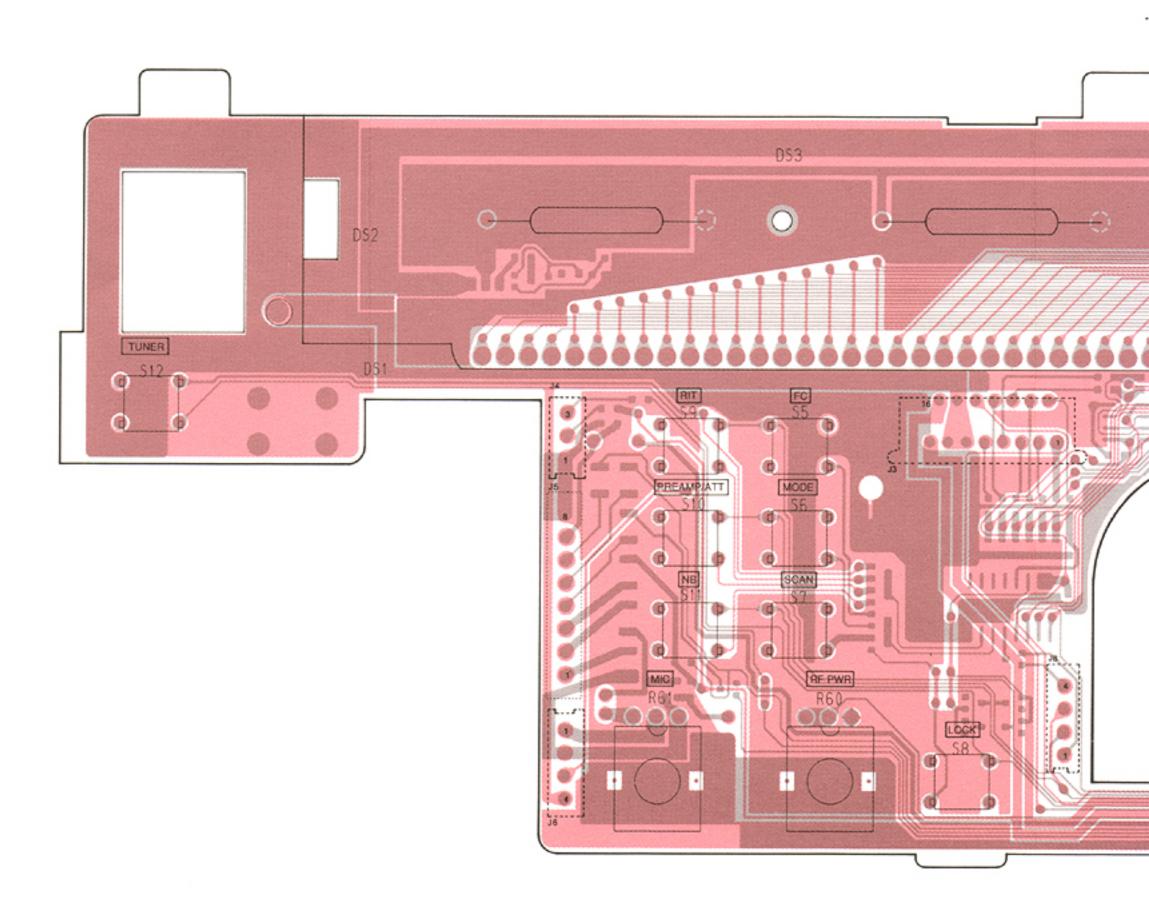


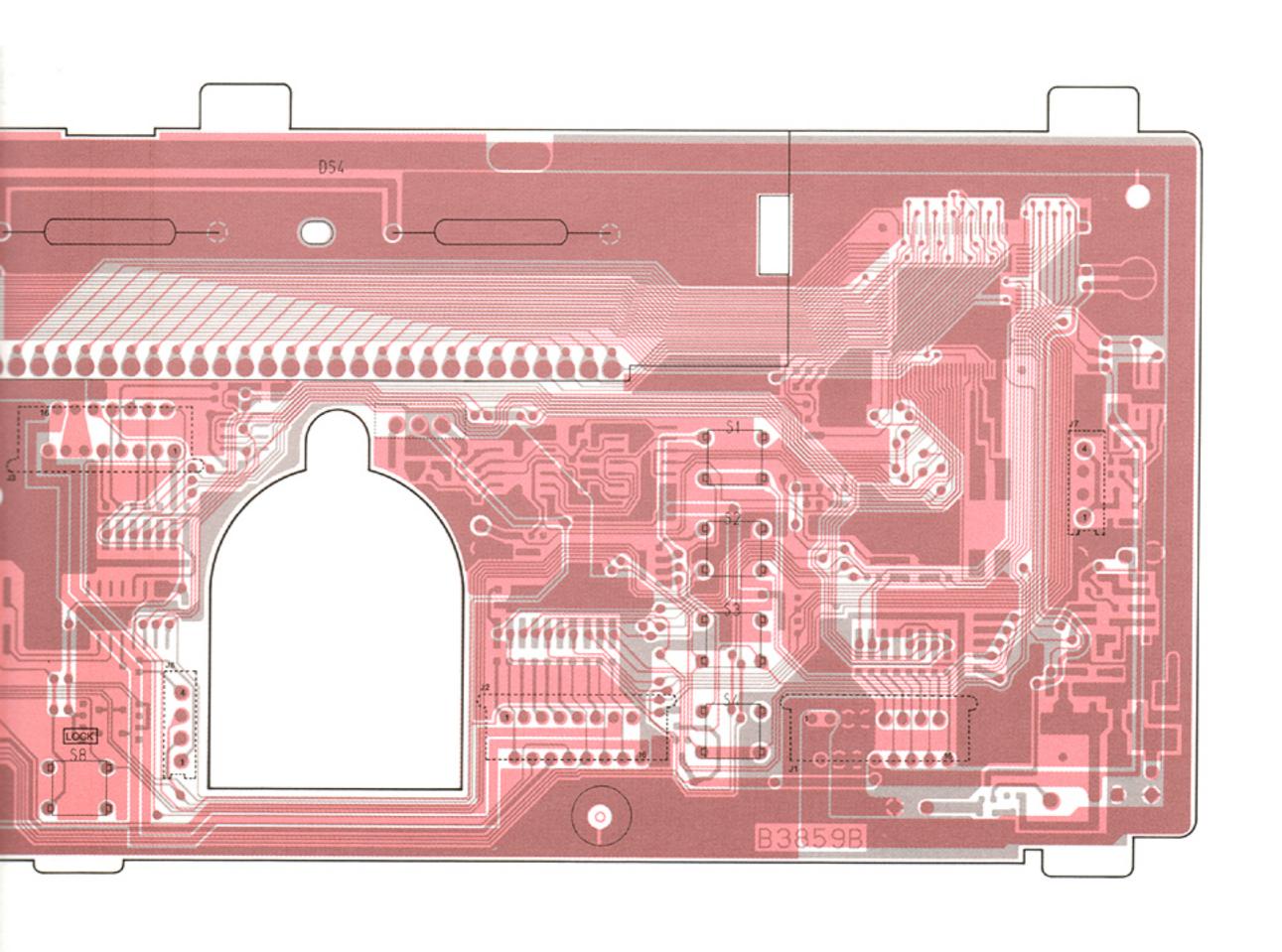
JACK UNIT



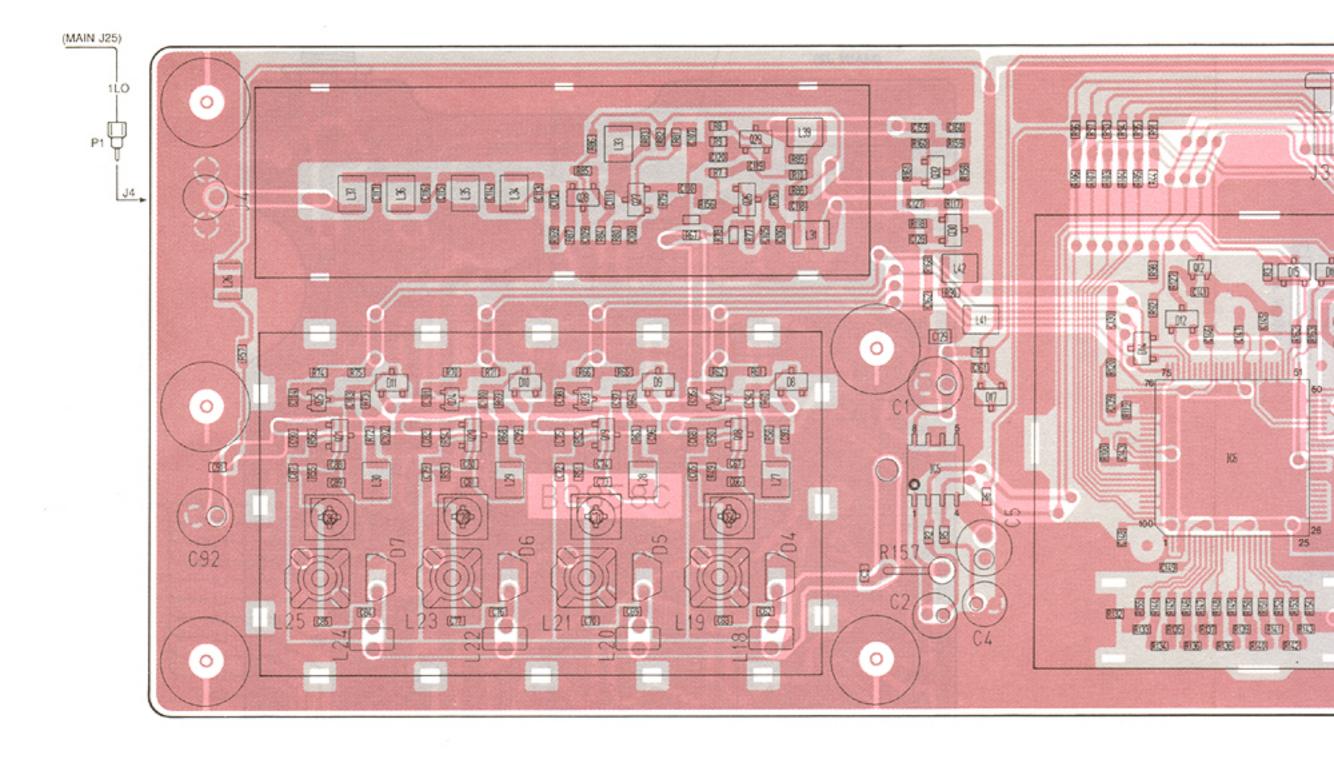
1 MIC ②8V 3 UD 4 SQLS (5) SEND ⑥ GND ⑦ MICE

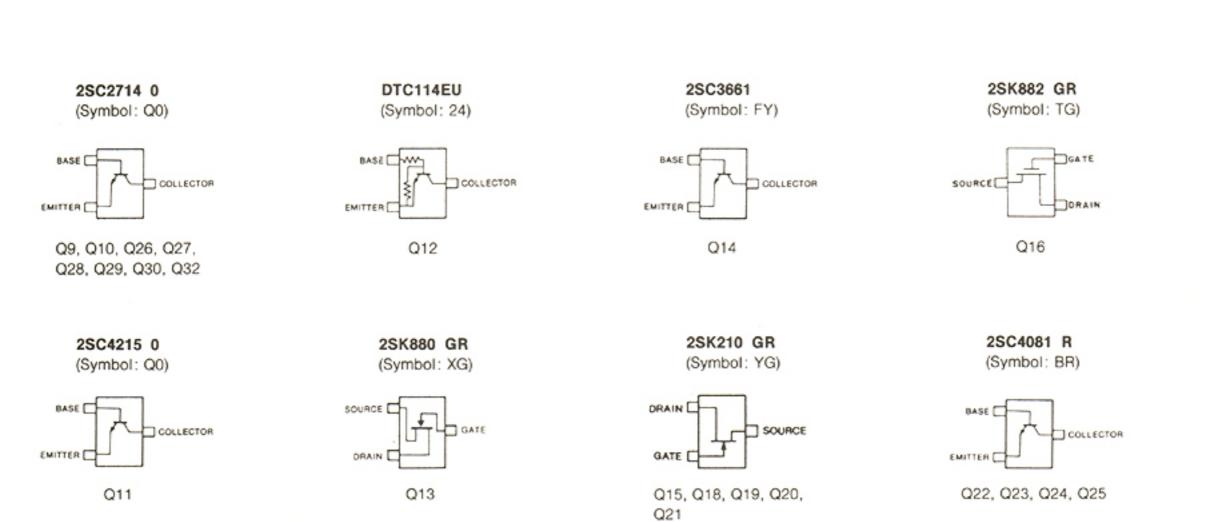
FRONT UNIT





8-3 PLL UNIT

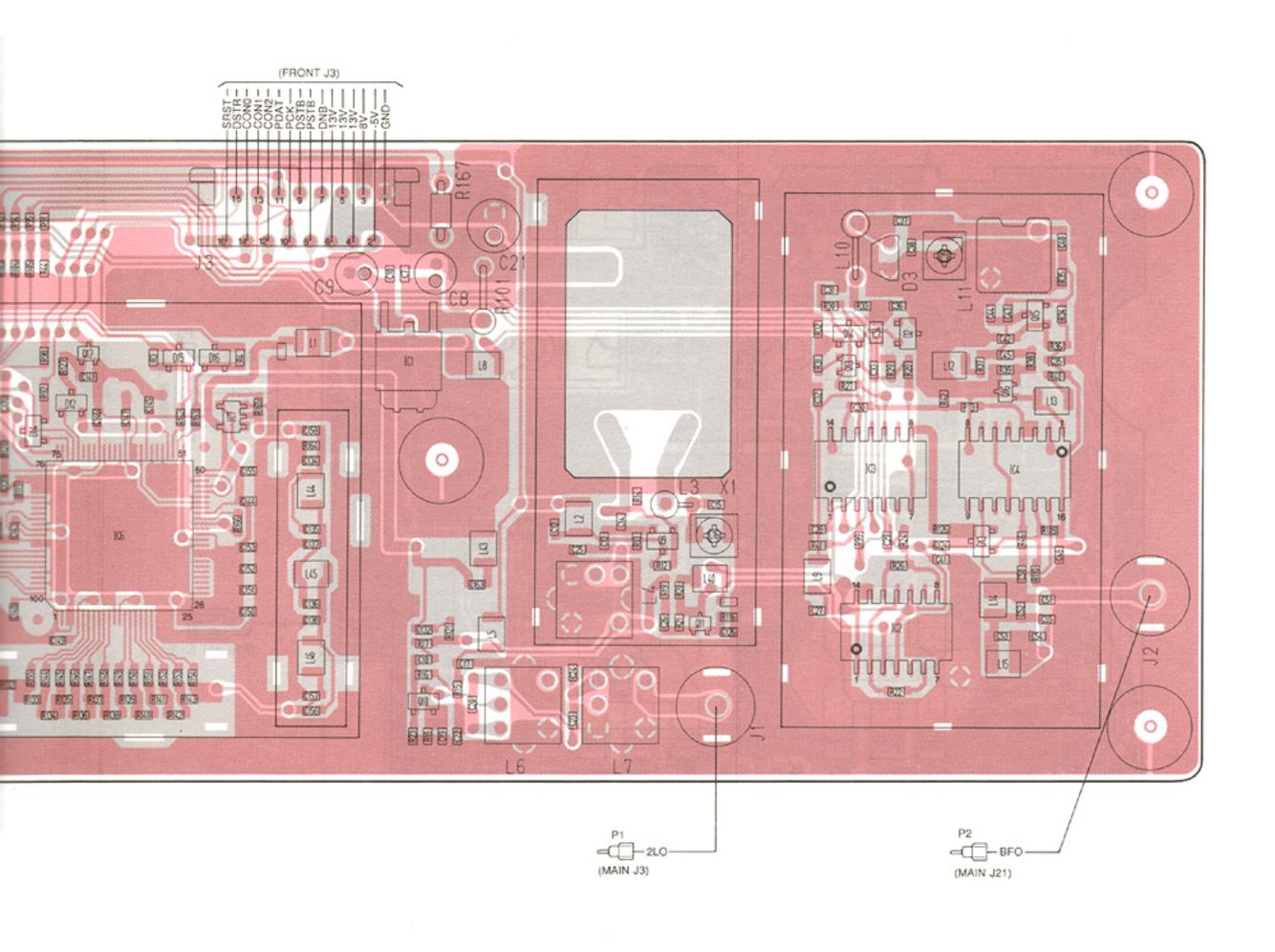


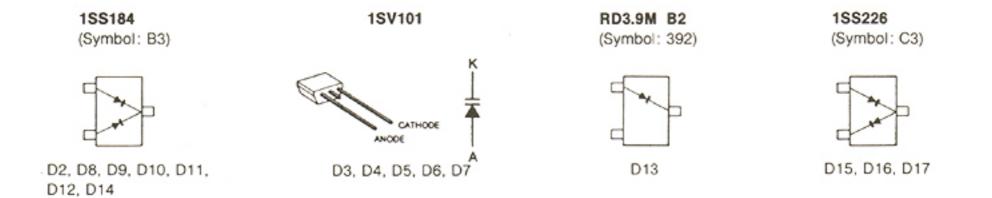


D2, D8, D12, D1

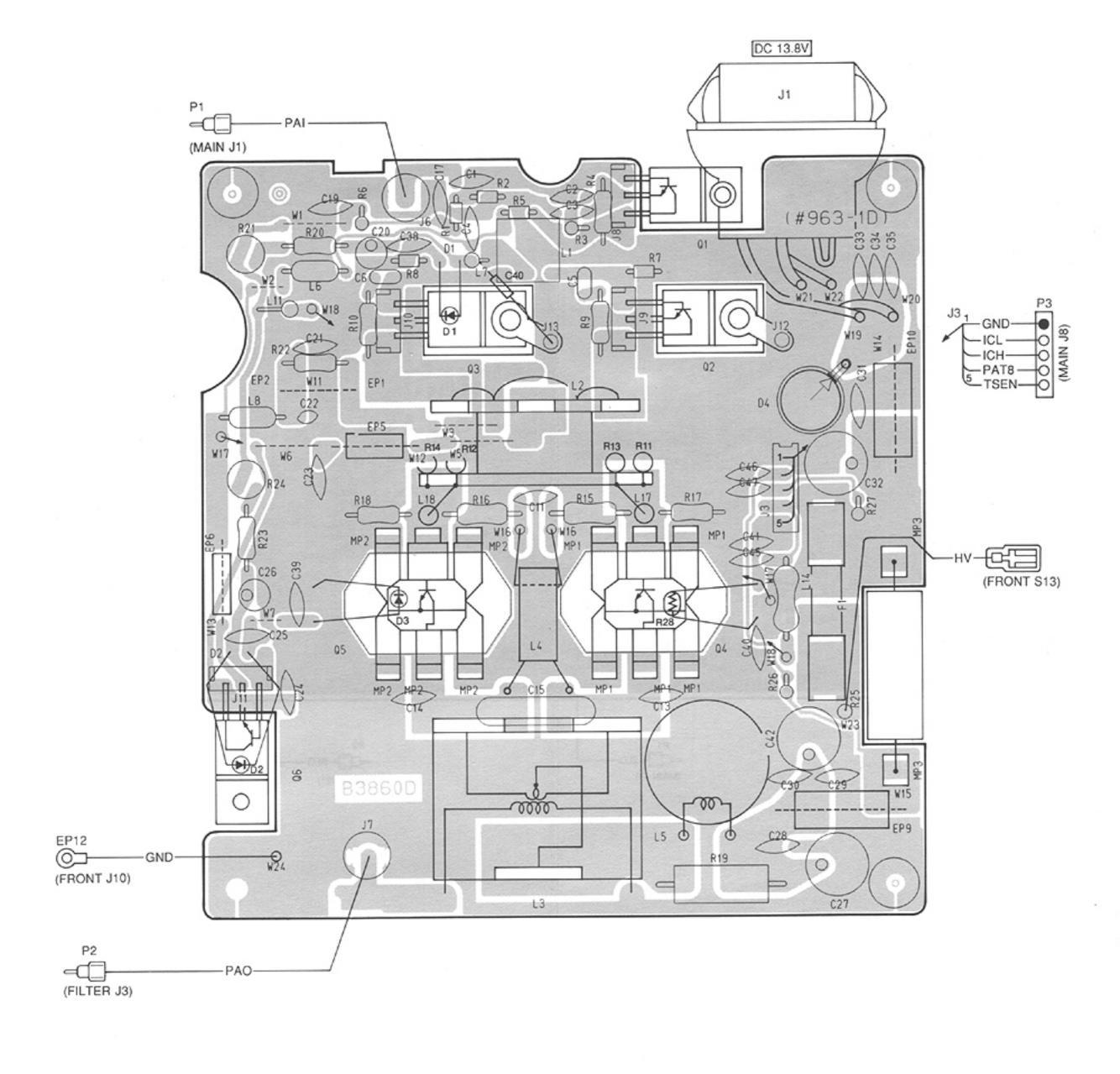
188

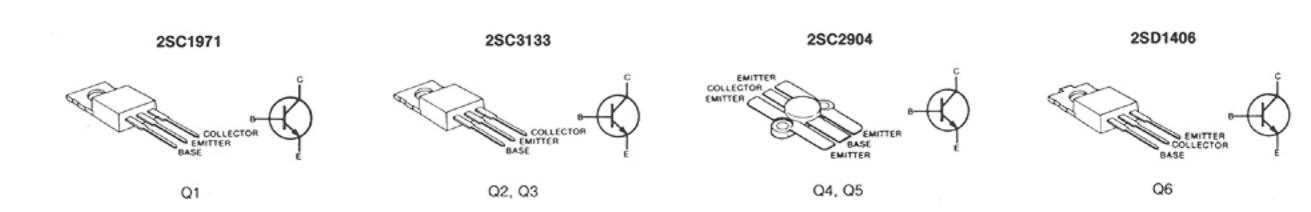
(Syr



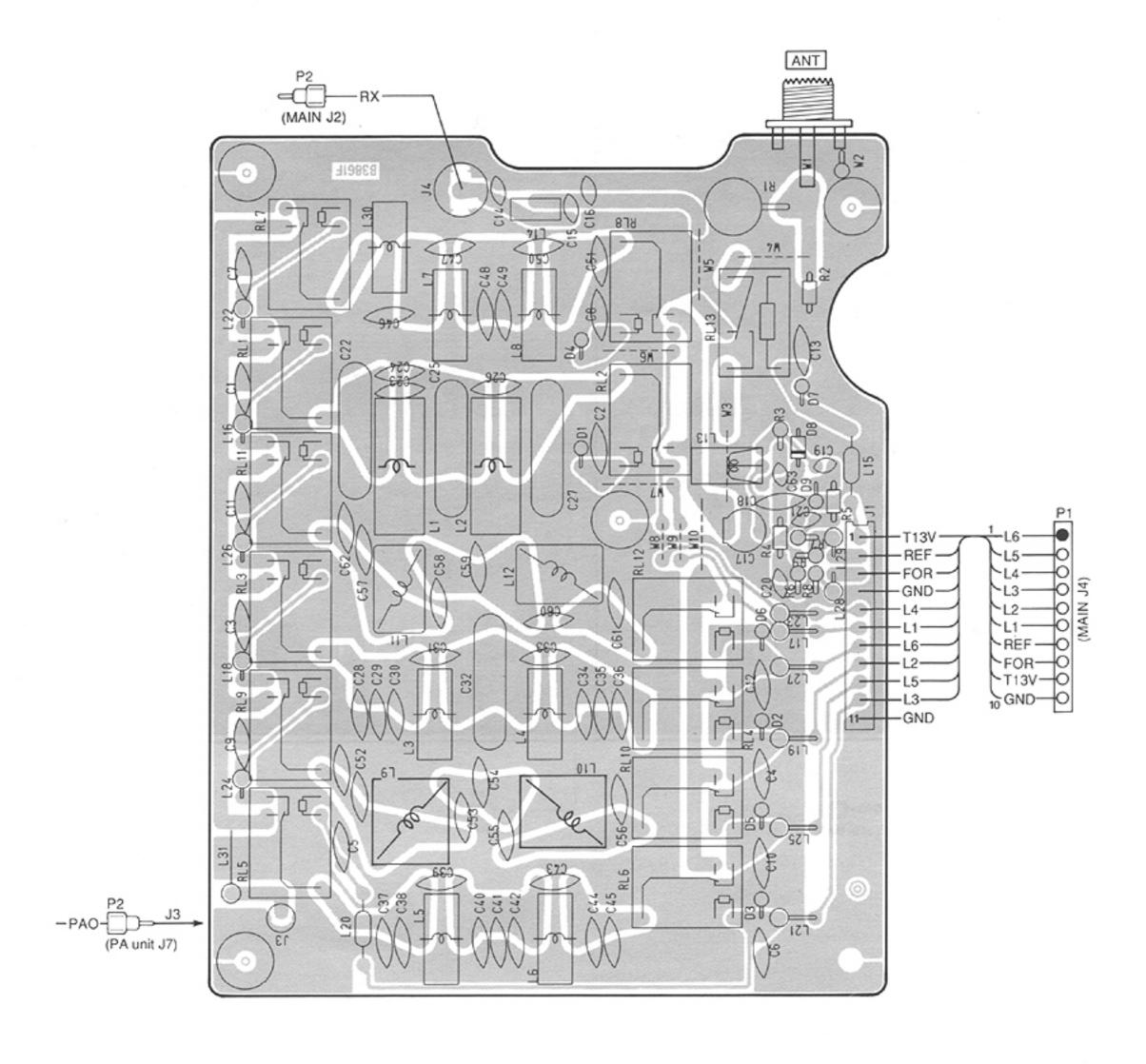


8-4 PA UNIT

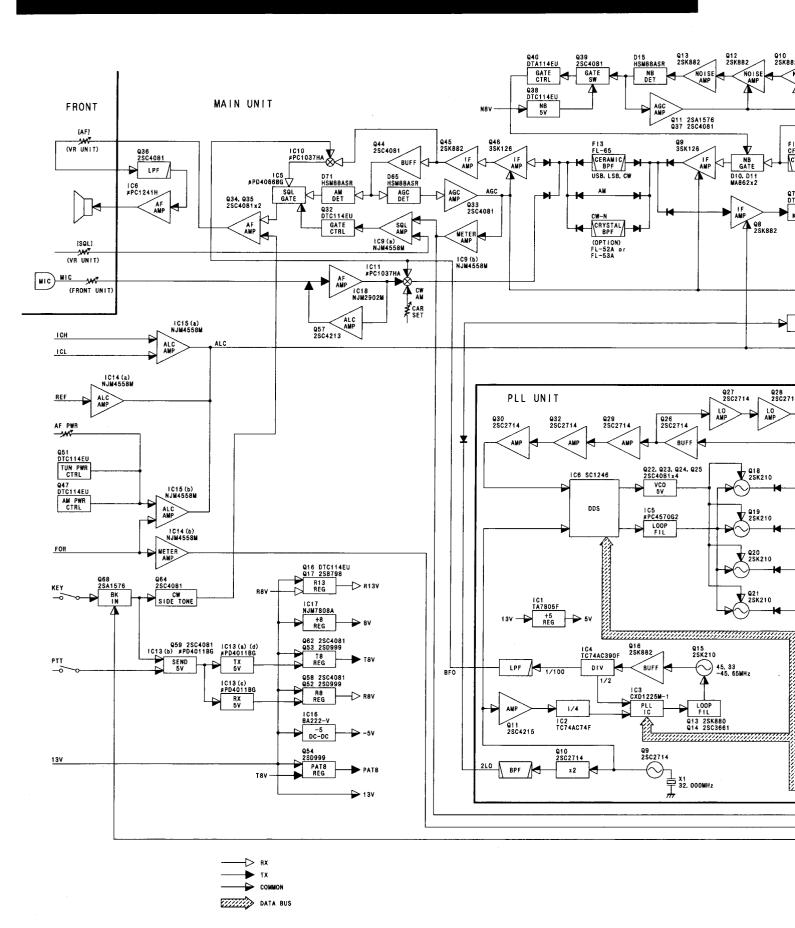


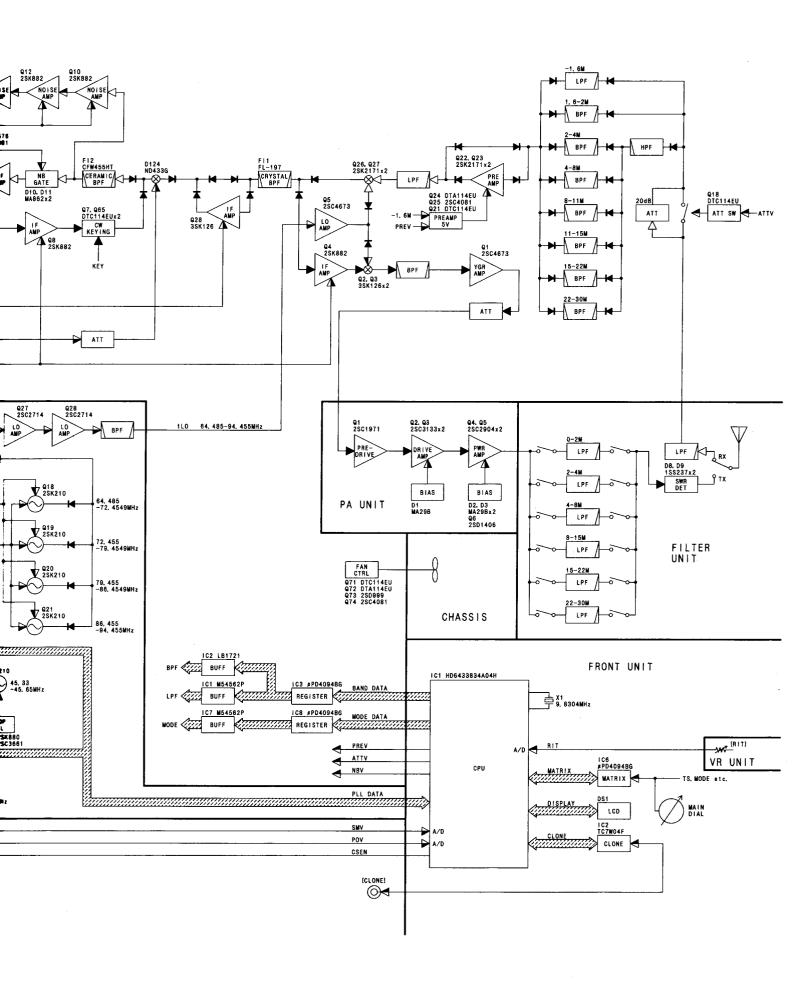


8-5 FILTER UNIT



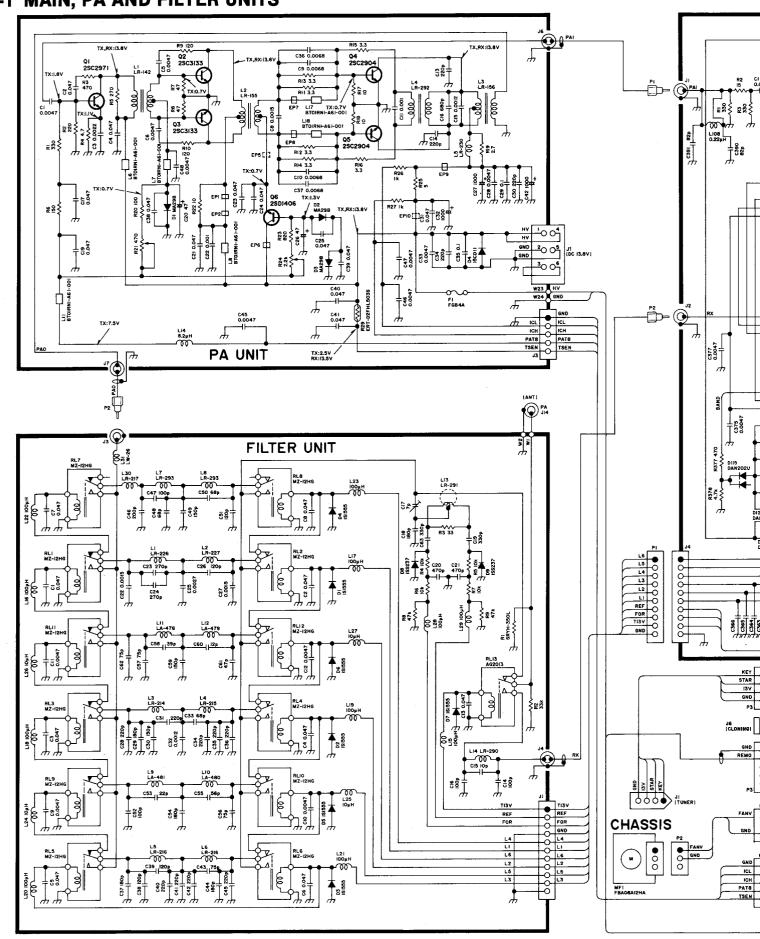
SECTION 9 BLOCK DIAGRAM

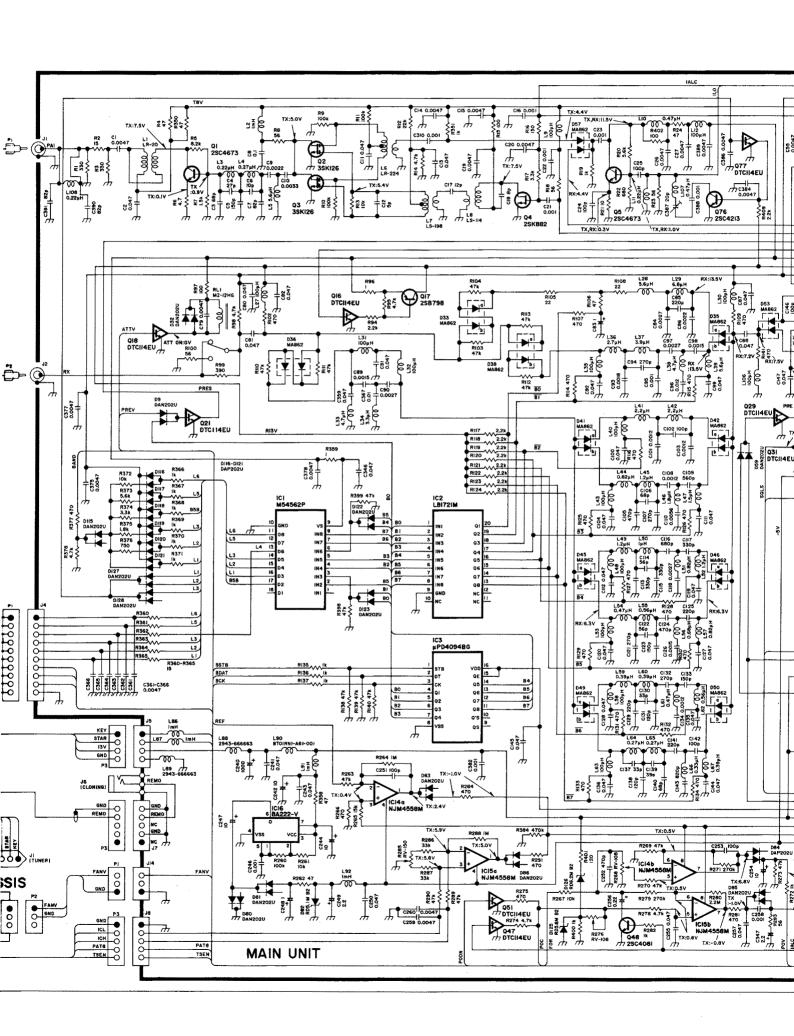


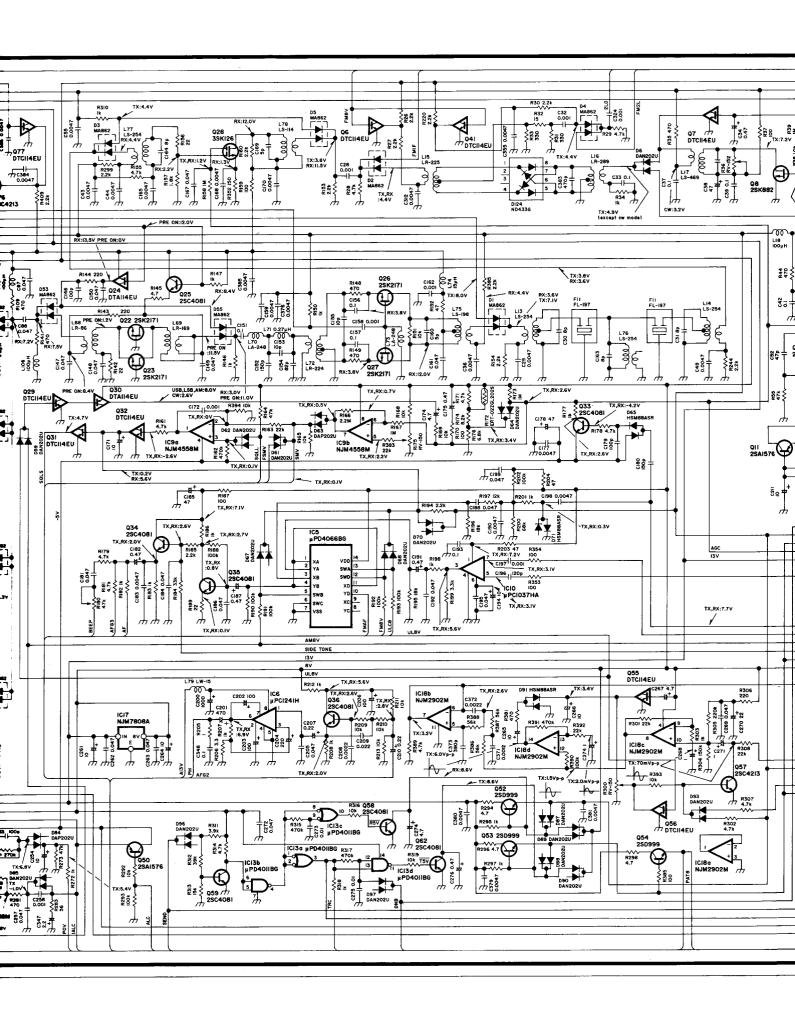


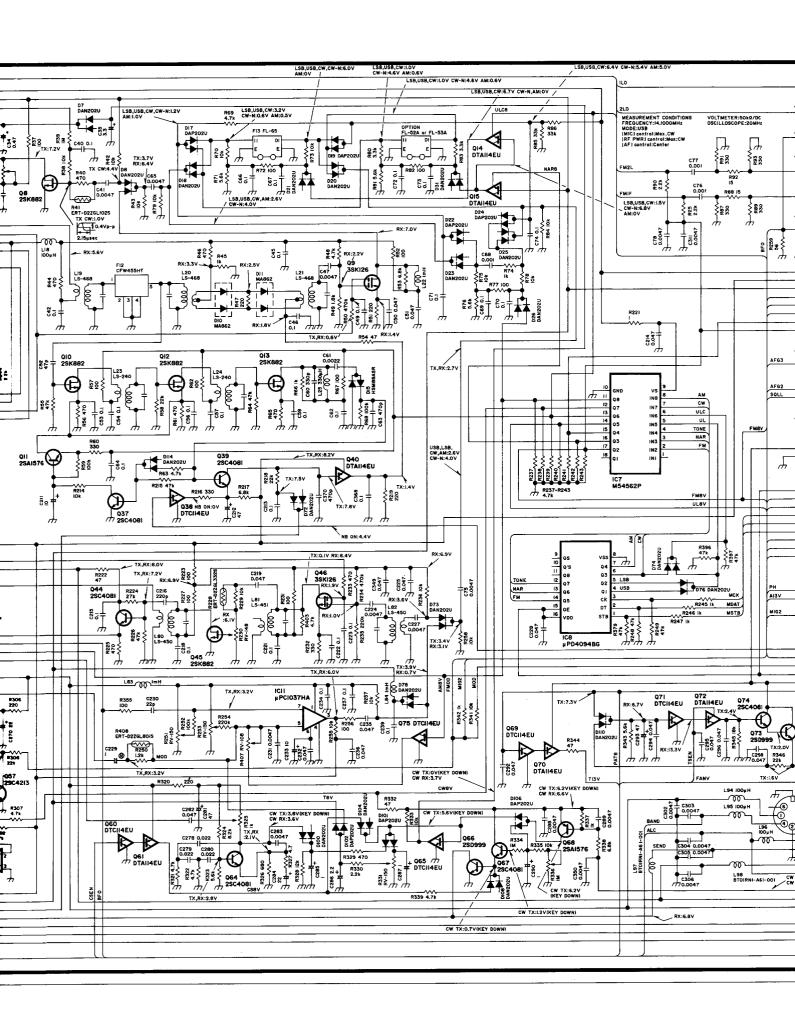
SECTION 10 VOLTAGE DIAGRAM

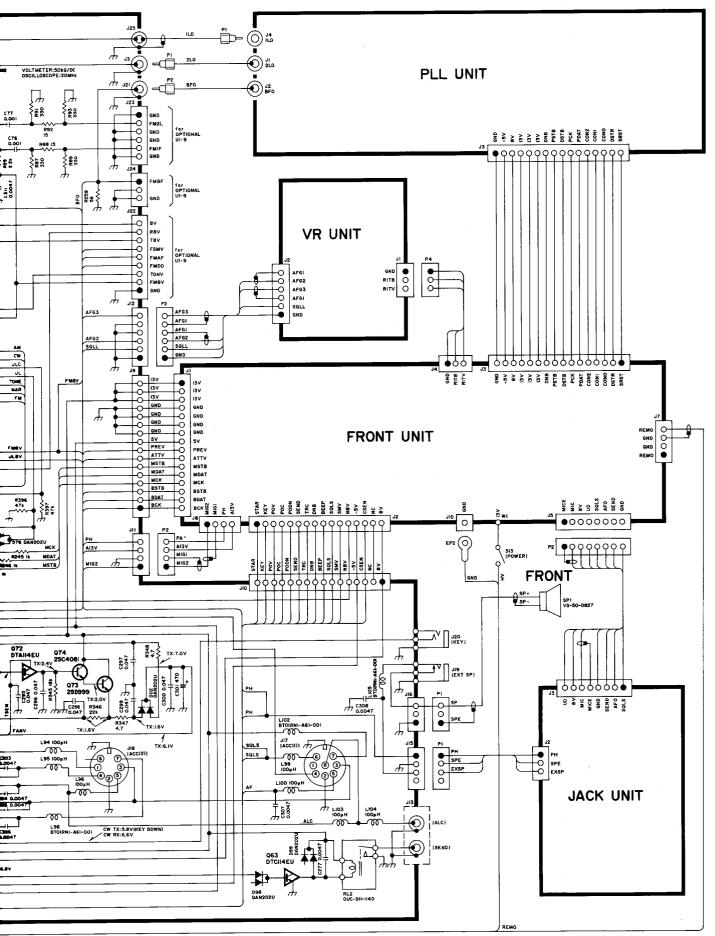
10-1 MAIN, PA AND FILTER UNITS



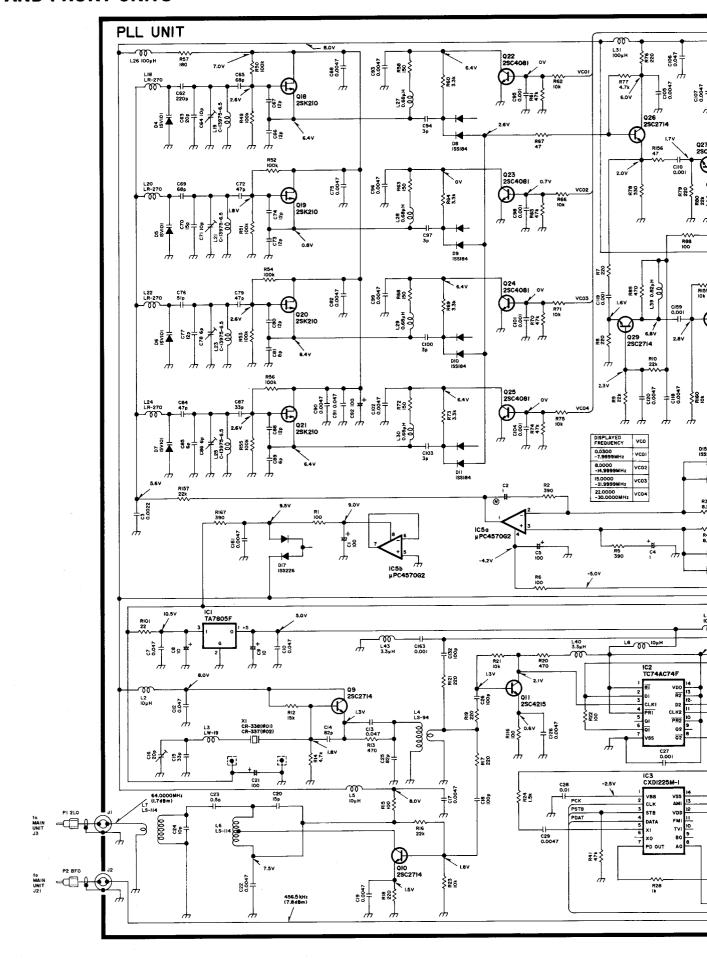


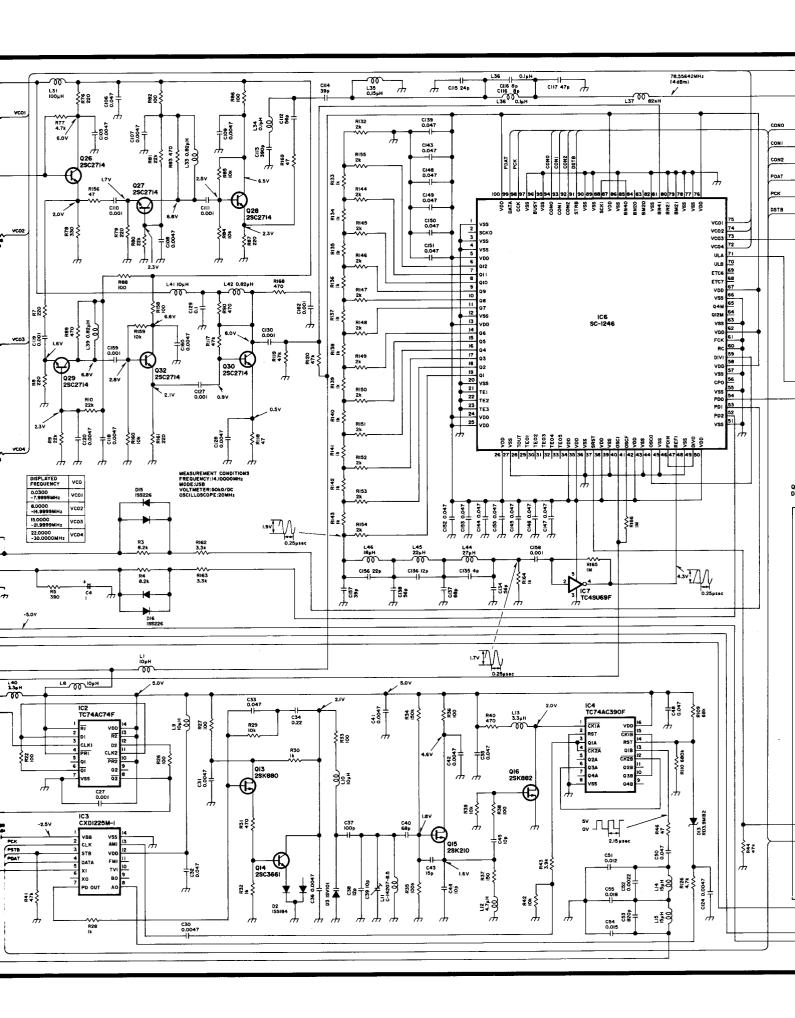


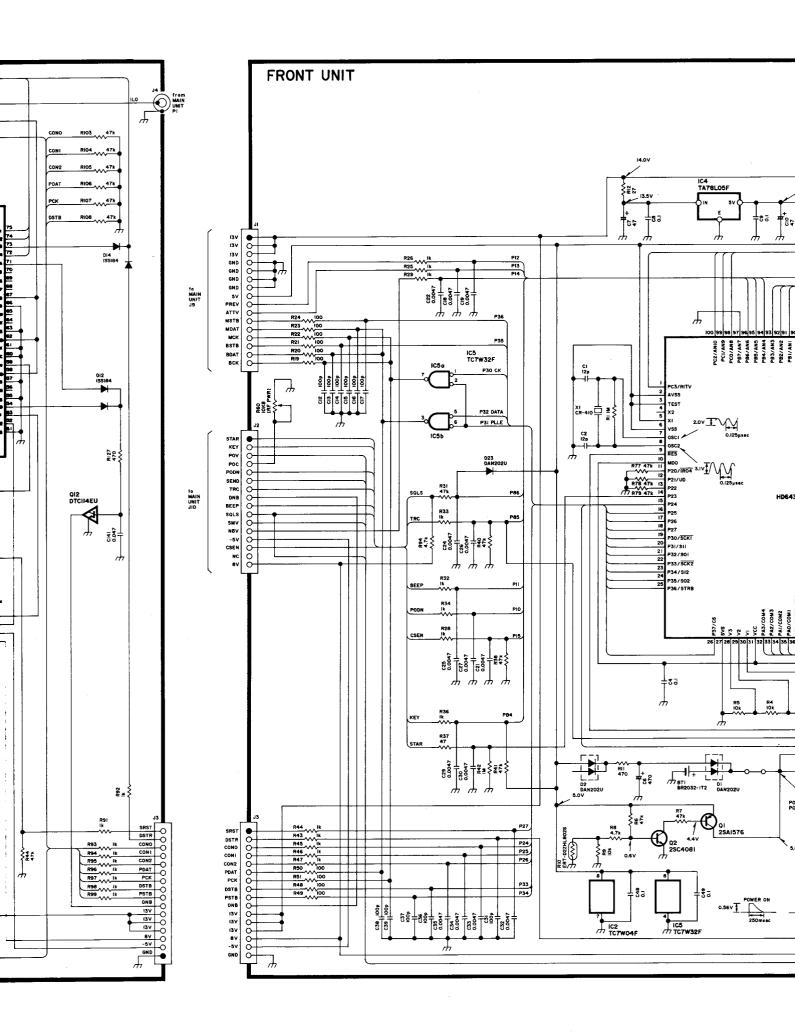


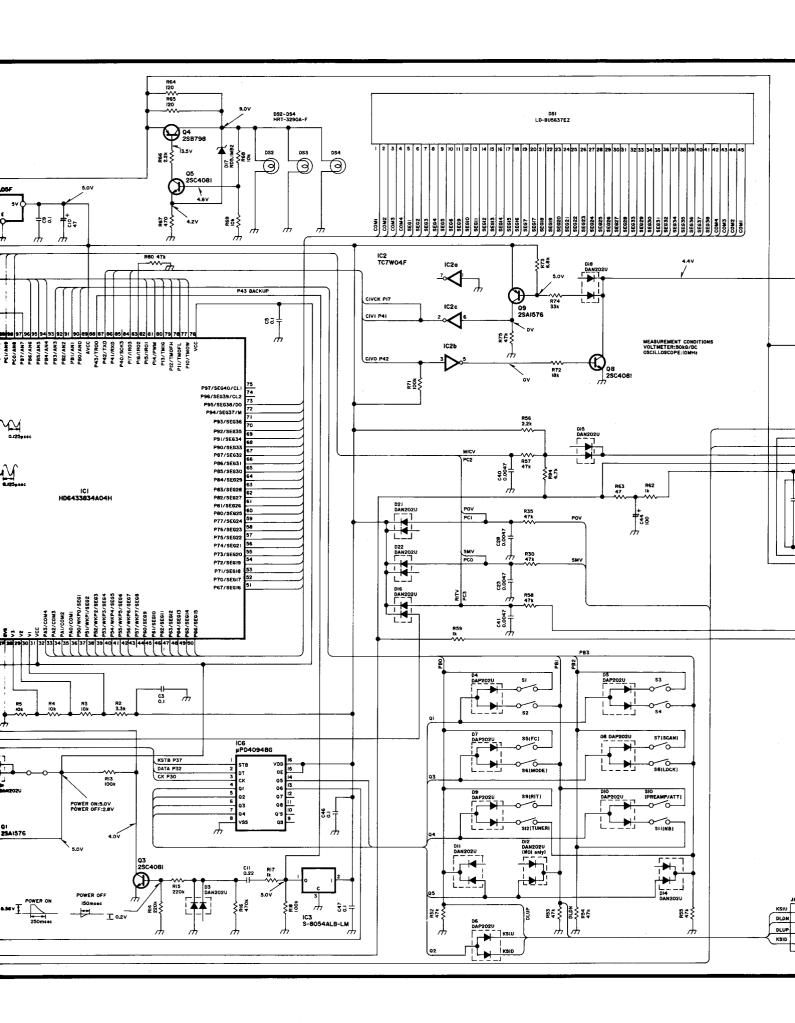


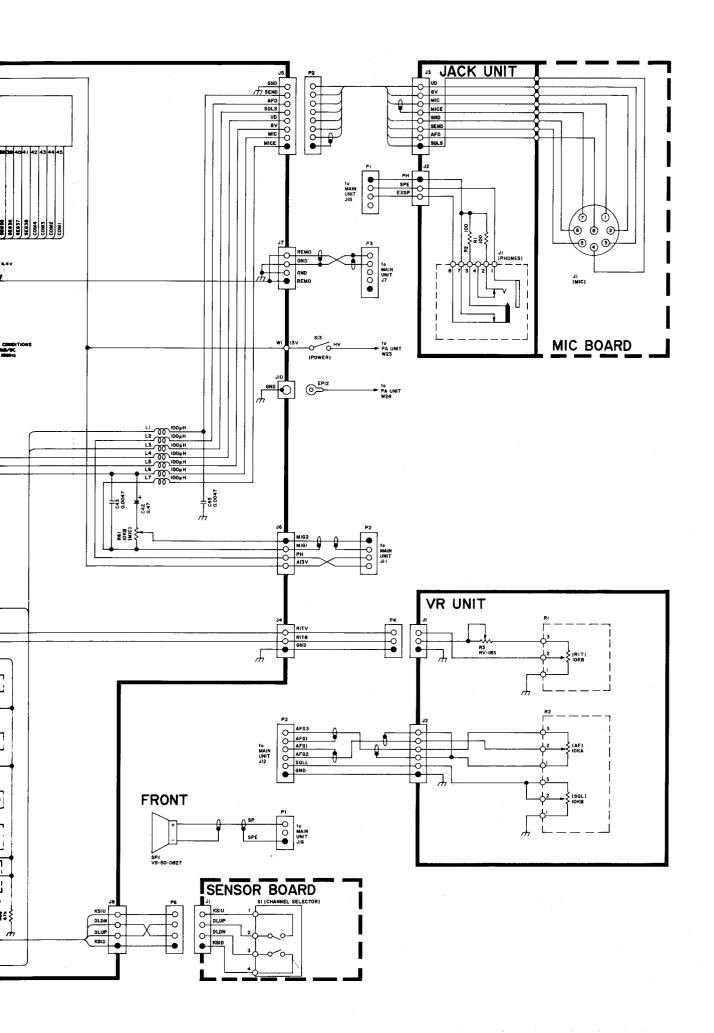
10-2 PLL AND FRONT UNITS











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Icom France S.a

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