OICOM

SERVICE MANUAL

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Icom Inc.

INTRODUCTION

This service manual describes the latest service information for the **IC-737A** HF TRANSCEIVER at the time of publication.

VERSION NO.	VERSION	SYMBOL
#01	Other	OTH
#02	France	FRA

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
- Equipment model name and unit name
- Quantity required

<SAMPLE ORDER>

1790000050 IC ND487C1-3R IC-737A MAIN UNIT 5 pieces 8810002260 Screw FH B0 M3 × 6 IC-737A 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

500 kHz-29.995 MHz Frequency coverage Receive

> Transmit 1.800-1.99999 MHz 3.500-4.000 MHz

> > 7.000-7.300 MHz 10.100-10.150 MHz 14.000-14.350 MHz 18.069-18.168 MHz 21.000-21.450 MHz 24.890-24.990 MHz

28.000-29.700 MHz

 Mode : SSB, CW, AM, FM

· Number of memory channels : 101

 Antenna impedance 50 Ω nominal

 Usable temperature range -10° C to $+60^{\circ}$ C (+14°F to +140°F)

 Frequency stability : Less than ±200 Hz from 1 min. to 60 min. after power ON

Less than ±30 Hz/hr. after one hour at +25°C (+77°F)

Temperature fluctuations (0°C to +50°C; +32°F to +122°F) less than ±350 Hz

 Power supply requirement 13.8 V DC±15% (20 A)

• Current drain (at 13.8 V DC) 20 A Transmit

Receive squelched 1.6 A

max. audio output 2.1 A

 Dimensions : 330 (W) × 111 (H) × 285 (D) mm

13.0 (W) \times 4.4 (H) \times 11.2 (D) in (Projections not included)

 Weight : 8.1 kg (17.9 lb)

TRANSMITTER

 Output power : SSB, CW, FM 10-100 W

10-40 W AM

(continuously adjustable) · Spurious emissions : Less than -50 dB

: More than 40 dB Carrier suppression • Unwanted sideband suppression : More than 50 dB

 Microphone impedance : 600 Ω

RECEIVER

· Receive system Triple-conversion superheterodyne

Intermediate frequency

I	MODE	1st	2nd	3rd
Ī	SSB	69.0115 MHz	9.0115 M Hz	455 kHz
Ī	CW	69.0106 MHz	9.0106 MHz	455 kHz
-	AM. FM	69.0100 MHz	9.0100 MHz	455 kHz

 Sensitivity (Preamp ON) : SSB, CW (10 dB S/N) 1.8-29.995 MHz Less than 0.16 µV

AM (10 dB S/N) 0.5-1.8 MHz Less than 13.0 µV

Less than 2.0 µV 1.8-29.995 MHz

FM (12 dB SINAD) 28-29.7 MHz Less than 0.5 µV

: SSB Less than 5.6 µV Squelch sensitivity (Threshold)

Less than 0.3 µV FM

 Selectivity : SSB, 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 FM More than 12.0 kHz/-6 dB Less than 30.0 kHz/-50 dB

• Spurious and image rejection ratio: More than 70 dB

: More than 2.6 W with an 8 Ω load Audio output power • RIT variable range : ±1.25 kHz or ±2.5 kHz selectable

ANTENNA TUNER

• Matching impedance range : 16.7-150 Ω unbalanced (less than VSWR 3:1)

 Minimum operating input : 8 W

· Waiting time for band changing : Less than 3 sec.

(typical)

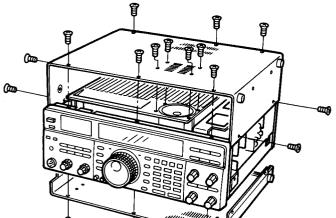
• Tuning time (typical) : Less than 7 sec. Tuning accuracy : VSWR 1.5:1 or less • Insertion loss (after tuning) : Less than 1.0 dB

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

SECTION 2 DISASSEMBLY INSTRUCTIONS

2-1 REMOVING THE PA BLOCK

1. Remove 19 screws (black, 8 mm) as shown in Fig. 1, to remove top and bottom covers.



2. Remove 3 screws (A), 4 screws (B) and 2 screws (C) as shown in Fig. 2.

- 3. Unplug 1 coaxial cable (J11), 3 connectors (J6, J13 and J34) from the MAIN unit as shown in Fig. 6 (p. 2-3).
- 4. Unplug 1 coaxial cable (J20) from the CTRL unit as shown in Fig. 6 (p. 2-3).

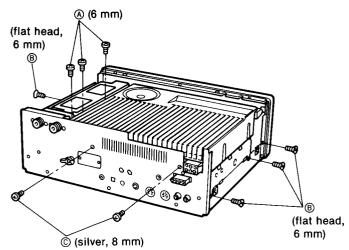


Fig. 1

Fig. 2

- 5. Pull the front panel forward.
- 6. Unplug 2 connectors (6-pin connector from P13 and 3-pin connector from Q1) as shown in Fig. 3.
- 7. Remove the PA block as shown in Fig. 3.

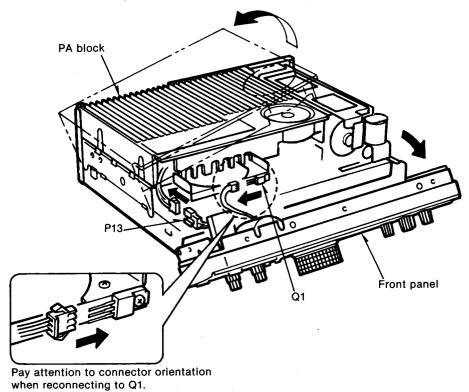


Fig. 3

2-2 REMOVING THE ANTENNA TUNER

- 1. Remove 3 screws (1) and 6 screws (2) as shown in Fig. 4.
- 2. Unplug 1 coaxial cable (J19) and 4 connectos (J7, J15, J16 and J17) from the CTRL unit as shown in Fig. 6. (p. 2-3).

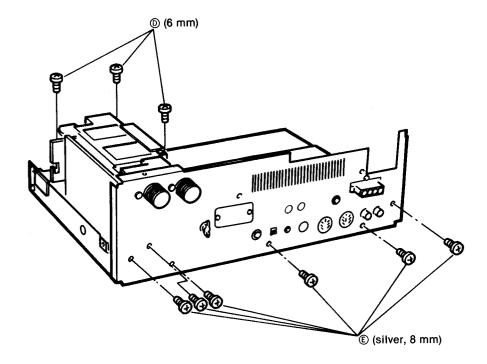


Fig. 4

3. Shiht the rear panel backward and remove the antenna tuner as shown in Fig. 5.

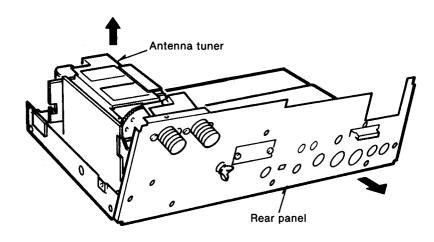
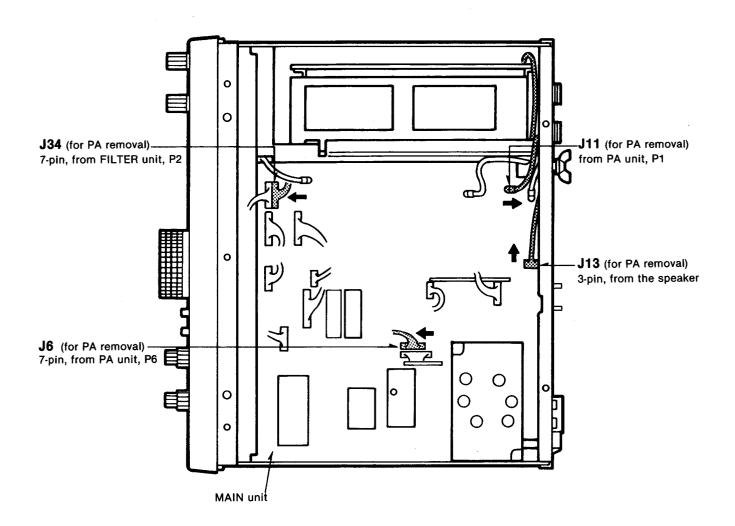


Fig. 5

2-3 CONNECTOR LOCATIONS



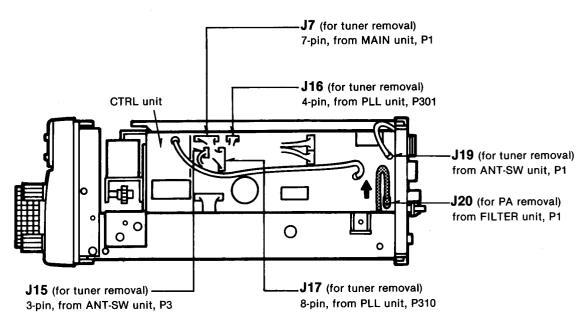
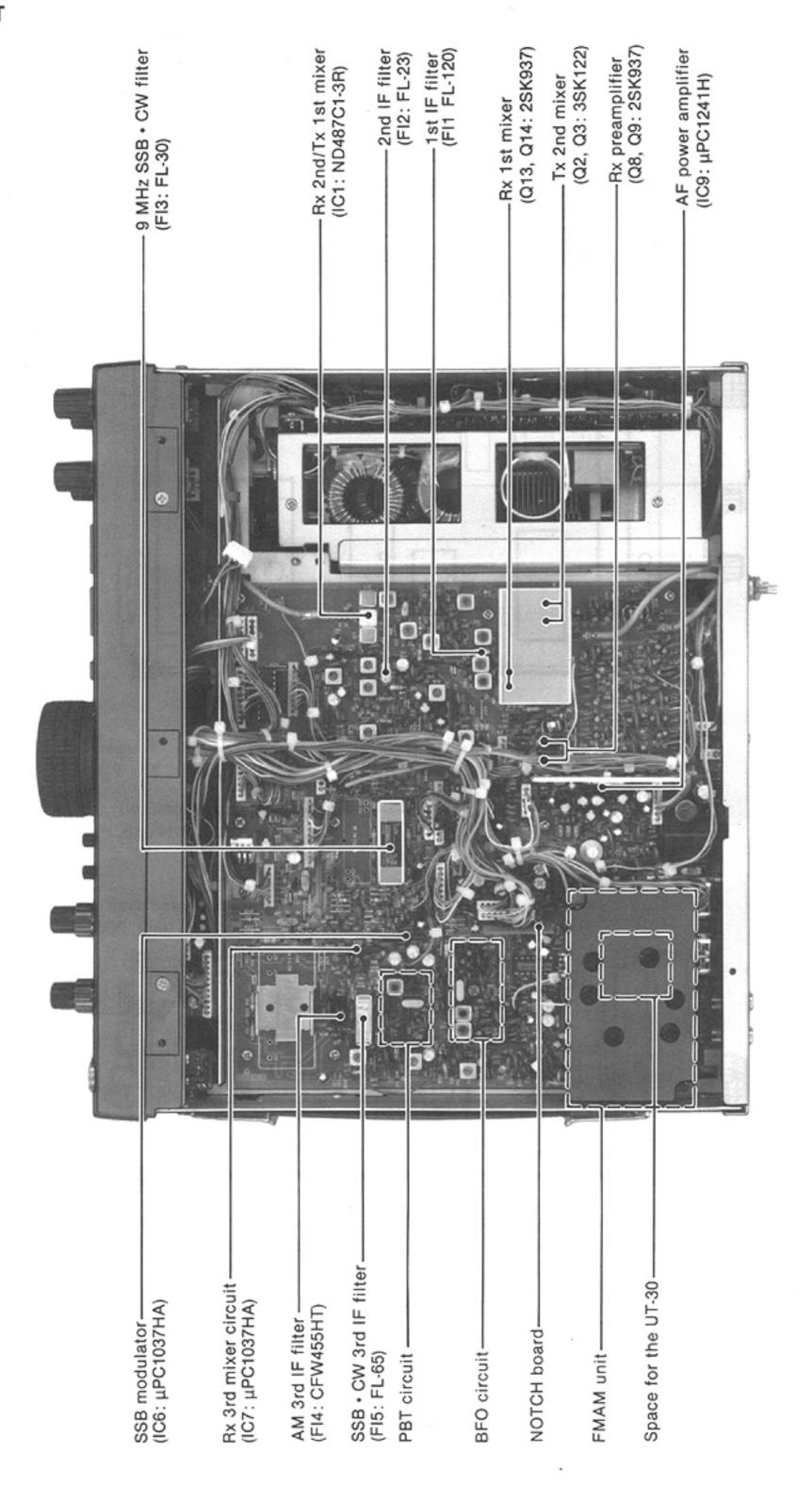


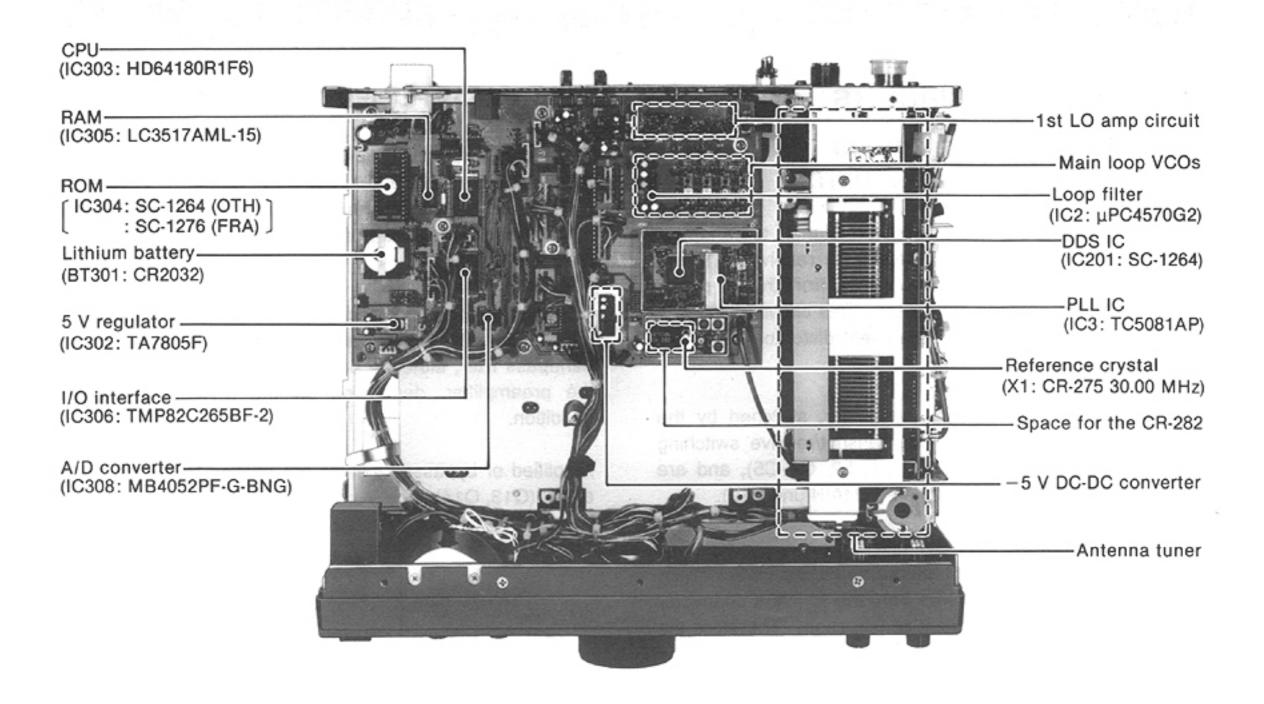
Fig. 6

SECTION 3 INSIDE VIEWS

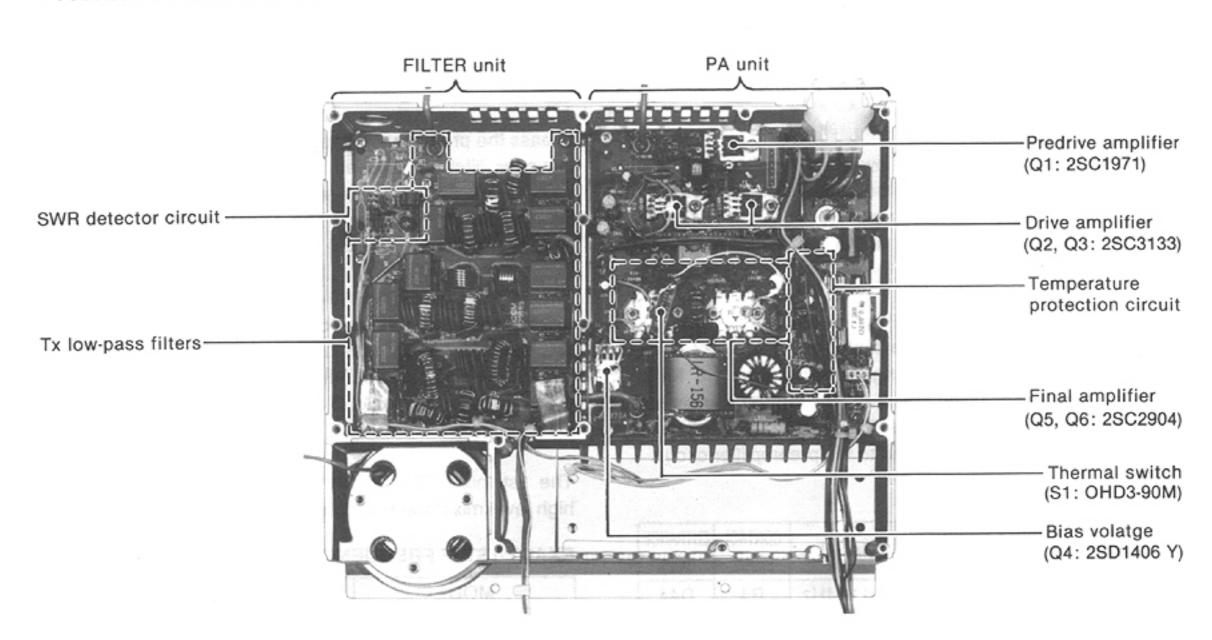
MAIN UNIT



PLL UNIT



• PA AND FILTER UNITS



SECTION 4 CIRCUIT DESCRIPTION

4-1 RECEIVER CIRCUITS

4-1-1 RF SWITCHING CIRCUIT (ANT-SW AND MAIN UNITS)

The RF switching circuit leads receive signals to bandpass filters from an 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 an antenna connector, switched by the [ANT] switch, pass through the transmit/receive switching relay (RL1) and low-pass filter (L1, L2, C1–C5), and are then applied to the MAIN unit via P2 (MAIN unit: J12).

The signals from the ANT-SW unit are either bypassed or are attenuated at the 20 dB attenuator (R102, 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

There is no diode at the low-pass filter (L38, L39, C148–C150) entrance so as to prevent distortion from very strong signals. The filtered signals bypass the preamplifier through a bypass switch (Q12) and are then applied to the 1st mixer circuit (Q13, Q14).

(2) 1.6-30.0 MHz

These signals pass through a high-pass filter (L42, L43, C143–C146) to suppress strong signals below 1.6 MHz, such as from broadcasting stations. The filtered signals are applied to one of 7 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	B0	-	8–11 MHz	B4	D44
1.6–2 MHz	B1	D38	11–15 MHz	B5	D46
2-4 MHz	B2	D40	15–22 MHz	B6	D48
4–8 MHz	В3	D42	22-30 MHz	B7	D50

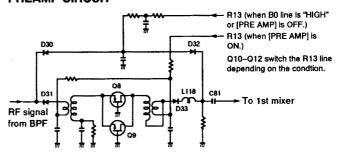
4-1-3 PREAMPLIFIER CIRCUIT (MAIN UNIT)

The preamplifier circuit uses two 2SK937s to obtain 10 dB gain over a wideband frequency range. When the [PRE AMP] switch on the front panel is turned ON, the signals above 1.6 MHz are applied to the preamplifier circuit.

Q8 and Q9 are connected in parallel to easily match the impedance to 50 Ω . Q10 and Q11 switch the signals from a bandpass filter, either to be bypassed, or to be applied to the preamplifier, depending on the [PRE AMP] switch condition.

Amplified or bypassed signals are applied to the 1st mixer circuit (Q13, Q14).

PREAMP CIRCUIT



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 69 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 69 MHz and image interference at 140 MHz. The signals are then applied to the 1st mixer (Q13, Q14).

The 1st LO signal (69.0600–99.0115 MHz) enters the MAIN unit from the PLL unit via J5. The LO signal is amplified at Q4, filtered by a low-pass filter, and then, applied to the 1st mixer. The low-pass filter uses a ring core inductor to prevent leakage of 1st LO signals. The output level from Q4 is approx. 15 dBm.

The 1st mixer (Q13, Q14) uses two 2SK937s to produce high level mixing with a high intercept point.

EXACT 1ST IF FREQUENCY

MODE.	FREQUENCY (MHz)
SSB	69.0115
CW	69.0106
AM, FM	69.0100

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 filtered signals are applied to the 1st IF amplifier (Q15). AGC voltage is supplied to the 2nd gate of Q15.

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

The 2nd mixer circuit mixes the amplified 1st IF signals and 2nd LO signal (60.00 MHz) to convert the 1st IF to a 2nd IF.

The amplified 1st IF signals from Q15 are converted to 9 MHz 2nd IF signals at the 2nd mixer (IC1). IC1 is a DBM (Double Balanced Mixer). The DBM uses a coil with a glass-type core to treat the LO signal at a 0 dBm level.

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 (D5–D8).

EXACT 2ND IF FREQUENCY

MODE	FREQUENCY (MHz)
SSB	9.0115
CW	9.0106
AM, FM	9.0100

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 (D5–D8). A portion of the signals from FI2 are amplified at the noise amplifiers (Q16, IC2, Q74), then detected at the noise detector (D12, D13). The detected signal from the noise detector is applied to the noise blanker switch (Q19).

A portion of the detected signal from the noise detector is applied to the noise AGC circuit (Q17, Q18, C60, R43, R47) to control the bias voltage of the noise amplifier (IC2 pins 1, 2).

The threshold level of the noise blanker switch (Q19) is set at 0.9 V. When the detected voltage exceeds the threshold level, Q20 outputs a blanking signal to close the noise blanker gate (D5–D8), depending on the pulse noise period.

When the operating frequency is changed, the "DNB" signal line becomes "LOW," turning Q20 ON through D14. 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.

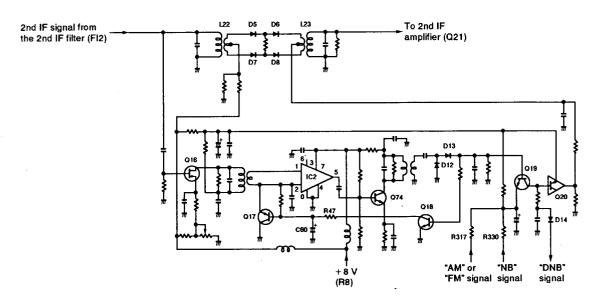
The signals passed through the noise gate (D5-D8) are amplified at Q21. The Loose tuning circuit (L24, C47) matches the signals to the 2nd IF filters.

When SSB or CW mode is selected, the signals pass through FI3 (FL-30). 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. When FM mode is selected, the signals are applied to the FMAM unit via the FIF signal line.

The filters are selected with mode selecting signals (SSB•CW, AM, CW-N) and the "T8" voltage line.

Signals from the filters are applied to the 3rd mixer (IC7) through D63.

NOISE BLANKER CIRCUIT



4-1-9 3RD MIXER AND 3RD IF CIRCUITS (MAIN UNIT)

The 3rd mixer circuit mixes the filtered 2nd IF signals and the 3rd LO signal to convert the 2nd IF to a 3rd IF.

The 2nd IF signals from D63 are converted to a 455 kHz 3rd IF signal at the 3rd mixer (IC7). The 3rd IF signal is applied to FI4 (for AM mode) or FI5 (for SSB and CW mode). The filters are selected by the mode selecting signals. The filtered signal is amplified at Q27, Q28 and Q29 to obtain a detectable level.

A rapid time constant of AGC is used for Q27 to prevent rising edge distortion of receive signals. A thermistor (R419), connected to the gate of Q28, improves the temperature characteristics of the receiver gain. R138 adjusts the receiver gain. Q76 mutes the IF signal from Q28 until the R8 voltage line becomes 8 V DC. This prevents unwanted signal reception, especially during CW full break-in operation.

Output signals from Q28 are applied to the SSB/CW detector. Output signals from Q29 are shared between the AM detector and AGC detector.

4-1-10 BFO CIRCUIT (MAIN UNIT)

A 9 MHz signal oscillated at the BFO circuit (Q31, X1) is buffer-amplified at Q42 and applied to the balanced modulator (IC6) for transmission, and to a product detector (IC5) after mixing with the 3rd LO signal at IC12 for receive demodulation.

In USB mode, the "USB" signal line becomes "HIGH," turning D69 ON. The frequency is then adjusted with C294 to set the USB carrier point.

During CW transmission, the "CW" signal line becomes "HIGH," turning D68 ON. The frequency is then adjusted with L83 to set the CW transmit carrier point.

In LSB mode, the "LSB" signal line becomes "HIGH," turning D67 ON. The frequency is then adjusted with L82 to set the LSB carrier point.

During CW reception, R8 voltage turns Q33 ON, then switching diodes (D67-D69) are turned OFF. The frequency is fixed by coils (L81-L83) and capacitors (C294, C230).

BFO FREQUENCY IN EACH MODE

MODE	FREQUENCY (MHz)
USB	9.0130
CW (Tx)	9.0106
LSB	9.0100
CW (Rx)	9.0098
AM, FM	NO OUTPUT

4-1-11 PBT CIRCUIT (MAIN UNIT)

The PBT (PassBand Tuning) circuit shifts the 3rd IF within ± 1.5 kHz. As a result, the 3rd IF is shifted from the center frequency of the 3rd IF filter (FI5). This means the 3rd IF signal does not pass through the center of the 3rd IF filter because the passband width is fixed in the 2nd IF filter. Therefore, the overlap of the 2nd and 3rd IF filters appears to be narrowed.

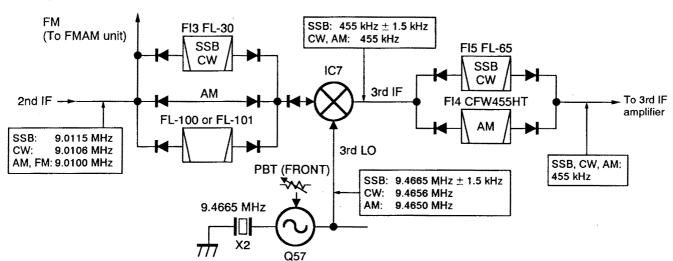
Since the BFO frequency is also shifted the same value as the 3rd IF shift, frequency is corrected at the detector.

The 3rd LO signal to IC7 is produced by Q57 and X2. In SSB mode, the signal is shifted within ± 1.5 kHz by D101 variable voltage which is controlled by the [PBT] control. Therefore, the 3rd LO signal is shifted to activate the PBT.

In AM mode, D101 variable voltage is replaced with a preset voltage by Q62 and 9.4650 MHz is output regardless of the [PBT] control location.

In CW mode, D101 variable voltage is replaced with a preset voltage by Q60 and 9.4656 MHz is output regardless of the [PBT] control location.

PBT CIRCUIT



4-1-12 SSB/CW DEMODULATOR CIRCUITS (MAIN UNIT)

In SSB or CW mode, the 3rd IF signal from the IF amplifier (Q28) is mixed with the BFO signal from IC12 at the product detector (IC5) to demodulate the 3rd IF signal into an AF signal. The detected signal (AF) from IC5 (pin 3) is applied to the AF input mode selector switch (IC8).

4-1-13 AM DEMODULATOR CIRCUITS (MAIN UNIT)

In AM mode, the 3rd IF signal from the buffer amplifier (Q29) passes through C121 and is detected at D62. The detected signal (AF) is then applied to the AF input mode selector switch (IC8).

4-1-14 FM DEMODULATOR CIRCUIT (FMAM UNIT)

In FM mode, the 2nd IF signal, just before passing the 2nd IF filter, is applied to the FMAM unit via D52. The passed signal is applied to the FM IF IC where the IF signal is converted into the 3rd IF signal and is then converted into an AF signal.

X1 and X2 on the FMAM unit are used for the 3rd local oscillator and quadrature detector, respectively.

The detected signal (AF) is then applied to the AF input mode selector switch (IC8) on the MAIN unit.

4-1-15 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 (IC8). IC8 consists of 4 analog switches which are selected with a mode signal and the squelch control signal. The AF signal is output from IC8 (pins 1, 4, 11) and then applied to the AF notch circuit.

4-1-16 AGC CIRCUIT (MAIN UNIT)

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

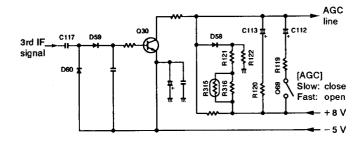
The receiver gain is determined by the voltage on the AGC line (Q30, collector). The voltage is usually set by D58 and the resistance ratio of R121, R122, R315 and R316.

The 3rd IF signal from the buffer amplifier (Q29) is detected at the AGC detector (D59, D60) and is then applied to the DC amplifier (Q30). -5 V is applied to the Q30 emitter to activate the AGC line on the minus voltage.

When receiving strong signals, the detected voltage increases and the voltage of the AGC line decreases via the DC amplifier (Q30). As the AGC line is used for the bias voltage of the IF amplifiers (Q15, Q21, Q27), IF amplifier gain is decreased.

When the strong signal disappears, the AGC line voltage is released by C113 and R120 while fast AGC is set. When slow AGC is set, C112 and R119 are connected in parallel to obtain a slow AGC release time.

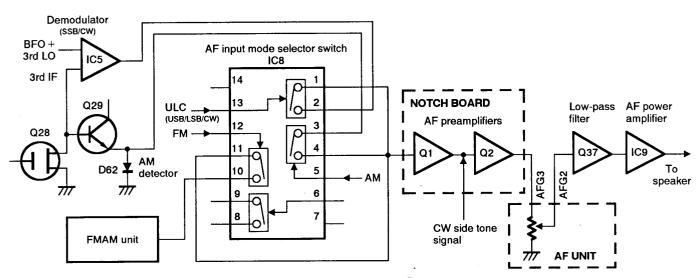
AGC CIRCUIT



4-1-17 S-METER CIRCUIT (MAIN UNIT)

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

AF CIRCUIT



The AGC bias voltage (time constant line) is applied to a differential amplifier (IC4 pin 6) where the difference between the bias and reference voltages is detected.

The resulting S-meter signal passes through the meter switching circuit (IC8) and is then applied to the S/RF meter on the front panel. The reference voltage is adjusted with R116. IC8 (pins 8 and 9) are shorted inside the IC while receiving.

The FM S-meter signal from the FMAM unit is applied to the meter switching circuit (IC8 pin 9) via the "FSM" signal line. The signal is also applied to the squelch circuit (IC4 pin 2).

4-1-18 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 (SSB, CW, AM) from IC4 (pin 7) is applied to the comparator (IC4 pin 2) through D56 to be compared with the threshold level set by the [SQL] control.

In FM mode, the 3rd IF signal is amplified and detected at IC2 and D3/D4, respectively, in the FMAM unit. The detected signal (S-meter signal) is then applied to the comparator (IC4 pin 2).

When the S-meter signal is lower than the threshold level, the comparator becomes "HIGH" and Q32 turns OFF to deactivate the AF input mode selector switch (IC8 pins 5, 12, 13). This cuts AF output OFF. This signal is then applied to Q34, turning OFF the [RX] indicator, and is also applied to the [MICROPHONE] connector (pin 4) and [ACC(1)] connector (pin 6).

4-1-19 AF NOTCH CIRCUIT (NOTCH BOARD)

The notch circuit attenuates the specified audio frequency to increase readability of desired signals.

The AF signal from the AF input mode selector switch (IC8) is applied to the AF notch circuit via an analog switch (IC2). IC2 and IC3 are analog switches which either select the AF signal to the notch circuit or bypass the notch circuit.

The signal is then applied to an active bandpass filter (IC1a), which has very narrow width characteristics, to pick up the interference frequency in reverse phase. The resulting signal is mixed with the original signal at R8 to obtain approx. 20 dB attenuation of the interference frequency components.

The center frequency can be adjusted with the [NOTCH] control. IC1b functions as a buffer amplifier.

4-1-20 AF AMPLIFIER CIRCUIT (NOTCH BOARD AND MAIN UNIT)

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

The AF signal from the AF notch circuit is applied to the AF preamplifiers (NOTCH board Q1, Q2). The CW side tone signal is applied to Q2.

The amplified signal is applied to the [AF] control (R1 on the AF unit) and then to the 2.8 kHz cut-off active low-pass filter (Q37). The AF signal output from Q37 is power-amplified at IC9 to drive the speaker.

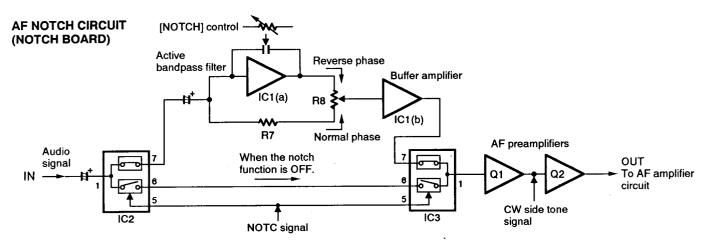
4-2 TRANSMITTER CIRCUITS

4-2-1 MICROPHONE AMPLIFIER CIRCUIT (PLL AND AF UNITS)

The microphone amplifier circuit amplifies the microphone input signals and outputs the amplified signal to the balanced modulator and FMAM unit. The speech compressor circuit is included in this circuit.

Audio signals from the [MICROPHONE] connector are amplified at Q604 (PLL unit) and then Q2 (AF unit). The amplified signals are then adjusted at the [MIC] control and amplified again at Q1 (AF unit). External modulation input from the [ACC(1)] socket (pin 4) is also applied to Q1 via R5 (AF unit).

When the speech compressor is ON, the gain of Q2 increases and the diode limiter (AF unit D1, D2) is activated. The compression level is set by R17 (DISPLAY unit).



4-2-2 VOX CIRCUIT (PLL UNIT)

The microphone signal from Q604 is amplified at Q603 and passed through the [VOX GAIN] control (R601). The signal is then applied to the VOX comparator (IC601a) to switch the "FUL2" line via Q601 and D601. When voice levels exceed the comparator level, the VOX circuit sets the transceiver to transmit.

On the other hand, a speaker drive signal from the JACK unit is applied to the ANTI-VOX comparator (IC601b) via the [ANTI-VOX] control (R602). When audio output level increases, this comparator cuts out the VOX compartor input.

4-2-3 BALANCED MODULATOR (MAIN UNIT)

The balanced modulator converts the AF signal from the microphone amplifier to a 9 MHz IF signal with a BFO signal.

Output signals from the microphone amplifier and the CW keying signal are applied to the balanced modulator (IC6 pin 5). The BFO signal, buffer-amplified at Q42, is applied to IC6 (pin 7) as a carrier signal.

IC6 is a double balanced mixer IC and outputs a double side band (DSB) signal with -40 dB carrier suppression.

R177 and R179 adjust the balanced level of IC6 for maximum carrier suppression. In CW mode, the CW keying signal upsets the balance to create a carrier signal.

4-2-4 FM AND AM MODULATION CIRCUITS (FMAM UNIT)

The microphone signals from the AF unit enter the FM•AM unit via P2 (FMI2 line) and are then amplified at Q11 and the limiter amplifier/low-pass filter (IC5a/b).

In FM mode, the microphone signals are applied to the modulation circuit (D8) via R42. The modulation circuit changes the reactance of the FM local oscillator (Q1, X3) to obtain FM modulation. The modulated signal is amplified at IC3 and IC4 and is then applied to the transmitter IF circuit (MAIN unit Q22).

In AM mode, the microphone signals are applied to the local oscillator amplifier (IC4) via R44 as bias voltages to obtain AM modulation.

4-2-5 CW KEYING CIRCUIT (MAIN UNIT)

The CW keyer is connected to Q38. When the CW key is closed, 8 V is output from Q38 and this voltage controls break-in operation, the side tone signal and the transmit signal.

The 8 V from Q38 is applied via D93 to the balanced modulator (IC6) to unbalance the IC6 input bias voltage and create a carrier signal. R241 determines the transmit delay timing.

(1) BREAK-IN

When the [BK-IN] switch (S3 in the DISPLAY unit) is pushed IN, the IC-737A is automatically set to the transmission condition by CW keying. The 8 V from Q38 is applied to Q52 base via Q26. When the key is closed, Q52 grounds the SEND line for transmitting.

The transmit release delay time is determined by C252, R245 and the [DELAY] control (R244). When the [FULL] switch (S4 in the DISPLAY unit) is pushed IN, R425 is connected in parallel to obtain faster release time.

(2) SIDE TONE

When the CW key is closed, the side tone circuit (Q40) oscillates and sends the signal to the AF circuit.

Normally, D91 is ON, and C249 is connected to the Q40 collector so that no oscillation occurs. When the CW key is closed, the 8 V from Q38 via D92 give D91 reverse bias to disconnect C249 from Q40. Q40 then oscillates with 800 Hz as a side tone signal. R268 prevents side tone click noise.

(3) KEYING

Keying is controlled at 2 points in the IC-737A. The balanced mixer (IC6) stops the carrier output by recovering the balance of the input bias voltage. D35, located at the 2nd IF mixer (IC1) input, cuts the signal line.

C251, R240 and R241 determine the voltage wave form to IC6 (pin 5) to make the keying wave form.

(4) ELECTRONIC KEYER (PLL UNIT)

When a paddle is connected to the [KEY] jack and the [ELEKEY] switch (MAIN unit S2) is pushed IN, a "DOT" or "DASH" signal is applied to the electronic keyer IC (IC501).

The CW keying speed is adjusted with the [KEY SPEED] control (AF unit R2). The ratio of DOT:SPACE:DASH (keying weight) can be adjusted from 1:1:3 to 1.8:1:3.8 with R8

IC501 (pin 7) outputs the keying signal in adjusted CW keying speed and weight, and the keying signal is then applied to Q38 in the MAIN unit.

4-2-6 IF AMPLIFIER (MAIN UNIT)

The SSB/CW 9 MHz IF signal passes through the FI3 (FL-30) to suppress the unwanted sideband signal, then the signal is applied to a transmit IF amplifier (Q22). The optional CW narrow filter is not used in transmitting.

The amplified signal from Q22 is mixed with the 2nd LO signal and converted to a 69 MHz IF signal at IC1. IC1 is used in receiving and transmitting. The FM/AM signal from the FMAM unit is also amplified at Q22 and is then applied to IC1.

The 69 MHz IF signal is amplified at the IF amplifier (Q7) 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 (Q7, Q22) are controlled by ALC bias voltage from the ALC circuit. A thermistor (R89), connected to the gate of Q22, improves the temperature characteristics of the transmitter gain. R85 adjusts the total transmitter gain.

4-2-7 RF CIRCUIT (MAIN AND PA UNITS)

The displayed frequency signal converted at the balanced mixer (Q2, Q3 in MAIN unit) is applied to the bandpass filter (L2, L3, C4–C7, C415) 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 (Q5, Q6) 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 L4, then the signal is applied to the power amplifier (Q5, Q6). 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.

4-2-8 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 (Q5, Q6) is applied to one of the low-pass filters (depending on its frequency). The filter switching voltage from the PLL unit (J7) passes through the MAIN unit and is applied to the FILTER unit.

The filtered signal passes through the SWR detector circuit (L27) and is then applied to one of 2 antenna connectors via the antenna tuner circuit.

4-2-9 ALC CIRCUIT (MAIN UNIT)

The ALC (Automatic Level Control) circuit controls the gain of IF amplifiers in order for the IC-737A 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 D1 (FILTER unit) and applied to the MAIN unit as the "FOR" voltage.

The "FOR" voltage from the FILTER unit is applied to IC11 (pin 2) in the MAIN unit. The "POC" voltage, set by the [RF PWR] control (R16 on the DISPLAY unit), is applied to IC11 (pin 3) as the reference voltage.

When the "FOR" voltage exceeds the "POC" voltage, ALC bias voltage from IC11 (pin 1) controls the IF amplifiers (Q7, Q22). 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, IC11 operates as an averaging ALC amplifier with C51 in the FMAM unit. Q54 turns ON and the "POC" voltage is shifted for 40 W AM output power (maximum) through R207.

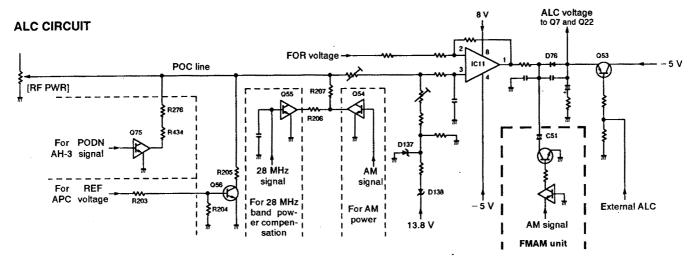
The ALC bias voltage from IC11 (pin 1) is also applied to the inversion-amplifier (IC11 pin 6) to control the intensity of the [TX] indicator via R202 and D77, indicating the ALC level.

An external ALC input from the [ALC] jack is applied to the buffer amplifier (Q53). External ALC operation is identical to that of the internal ALC.

4-2-10 APC CIRCUIT (MAIN UNIT)

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

The reflected wave signal appears and increases on the antenna connector when the antenna is mismatched. D2 of the SWR detector circuit (L27, D1, D2) in the FILTER unit detects the signal and applies it to Q56 in the MAIN unit as the "REF" signal.



When the "REF" signal level increases, Q56 decreases the POC line voltage via R205. The POC line voltage is applied to IC11 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 (R26 on the PA unit). The detected voltage is applied to the differential amplifier (IC10 pins 5, 6). When the current of the final transistors is more than 22 A, IC10 controls the ALC line via D73 to prevent excessive current flow.

Q55 is used for power reduction to prevent excessive current flow, when transmitting on the 28 MHz band, using the ALC line.

During tuning an antenna with an optional AH-3, the "PODN" signal turns Q75 ON. As a result, the "POC" voltage is shifted for 12 W output power.

4-2-11 TEMPERATURE PROTECTION CIRCUIT (PA UNIT)

A cooling fan (MF1) is activated while transmitting or if the temperature of Q5 or Q6 exceeds the preset value.

While transmitting, Q7 and Q8 are turned ON and provide a voltage to MF1 via R29. Thermistor R32 detects the temperature of Q5. If the Q5 temperature is more than 50°C (122°F), R32 keeps turning Q7 and Q8 ON to rotate the cooling fan even when the transceiver condition has changed from transmitting to receiving.

A thermal switch (S1) is thermally-connected to Q6. When the Q6 temperature exceeds 90 °C (194 °F), S1 is turned ON and provides a voltage for high speed rotation to MF1 via R28.

4-2-12 RF METER CIRCUIT (MAIN UNIT)

The "FOR" voltage from the FILTER unit is applied to the Po meter amplifier (IC10 pin 3). The amplified voltage is output from IC10 (pin 1) and then applied to the meter. R186 adjusts the meter sensitivity and R189 and C261 are used for RF meter peak power hold.

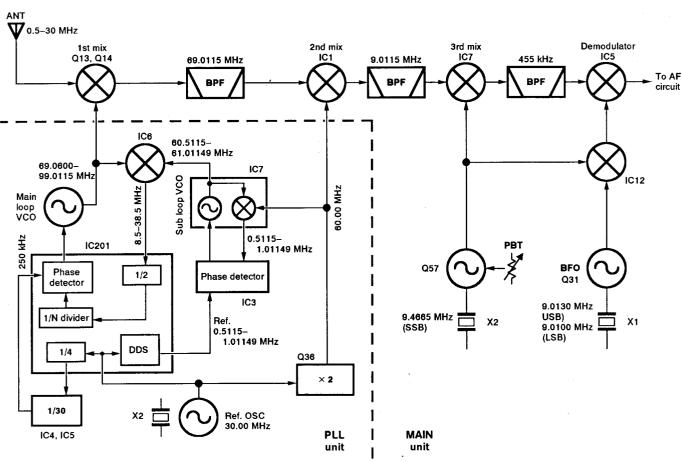
4-3 PLL CIRCUITS

4-3-1 GENERAL DESCRIPTION

The PLL unit generates a 1st LO signal (69.0600–99.0115 MHz variable) and a 2nd LO signal (60.00 MHz fixed is used for the MAIN unit). The IC-737A uses a dual loop PLL system.

The main loop PLL contains 4 VCO circuits for all HF band coverage within 500 kHz steps. The sub loop PLL employs the DDS (Direct Digital Synthesizer) system which ensures a rapid lockup time and high quality frequency oscillation for 500 kHz coverage within 10 Hz steps.

FREQUENCY CONSTRUCTION



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

The 1st LO circuit employs a dual loop PLL system. One of four VCO oscillation signals (main loop) is mixed with the signals from the sub loop PLL at IC6 and the resulting signal enters the PLL custom IC (IC201).

IC201 contains the DDS circuit for the sub loop PLL and a programmable divider/phase detector for the main loop PLL. The entered signal is divided and detected at the programmable divider and phase detector sections in IC201.

In the sub loop PLL, the reference frequency is generated at a digital synthesizer in the DDS section. The sub loop, therefore, does not use a programmable divider and high speed lock-up times can be obtained.

4-3-3 MAIN LOOP CIRCUIT (PLL UNIT)

One of four VCO circuits is switched by the VCO switching signal ("VCO1"-"VCO4"). The oscillated signal is buffer-amplified at Q3 and Q25 and then applied to the mixer (IC6 pin 2). The sub loop PLL output signal is also applied to the mixer (IC6 pin 8).

The mixed signal from pin 5 is passed through a low-pass filter (L37–L39, C119–C125) and then amplified at Q26. The signal is then applied to the PLL IC (IC201 pin 80).

The signal is divided by 2 and applied to a programmable divider section. The divided signal is then phase detected at the phase comparator section with the 250 kHz reference frequency. The phase detected signal is output from IC201 (pins 52, 53) and is then converted to a DC voltage (lock voltage) by the active loop filter (IC2b).

Although a reference frequency of 250 kHz is used, the main loop resolution is 500 kHz, since VCO output is divided by 2 before being applyed to the programmable divider section.

The lock voltage is applied to the varactor diodes (D2, D4, D6, D8) in the VCO circuits to change the capacitance of these diodes and control the oscillation frequency. The VCO oscillating signal is then buffer-amplified at the buffer amplifiers (Q3, Q1) and applied to the MAIN unit as a 1st LO signal.

4-3-4 SUB LOOP CIRCUIT (PLL UNIT AND DDS BOARD)

IC7 contains an oscillator and mixer circuits. IC7 outputs 0.5115-1.01149 MHz since the oscillated signal is mixed with 60.00 MHz of frequency.

The signal passes through the low-pass filter (L49, C149) and is amplified at Q32. The signal is then phase detcted at IC3. The reference frequency of IC3 uses a DDS output from IC201 (pins 6–11, 14–19).

The detected signals are applied to the loop filter (R179, R180, C138) to be converted to a DC voltage (lock voltage). The lock voltage is applied to the varactor diode (D9) to change the capacitance of this diode and control the sub loop VCO oscillation frequency.

4-3-5 REFERENCE OSCILLATOR AND 2ND LO CIRCUITS (PLL UNIT)

The reference oscillator circuit consists of Q23 and X1. A 30.00 MHz reference frequency is oscillated to produce a 2nd LO signal, main loop reference frequency and clock signal for DDS.

The reference frequency is buffer-amplified at Q21 and is then divided by 4 at a divider inside IC201. The 7.50 MHz frequency is divided by 30 at IC4 and IC5 to obtain the 250 kHz PLL reference frequency.

The 30.00 MHz reference frequency is multiplied by 2 at Q22 to obtain the 2nd LO signal. The resulting 60.00 MHz signal is filtered at the bandpass filter and is then applied to a sub loop mixer (IC7) and to the MAIN unit via P4 as the 2nd LO signal.

4-4 LOGIC CIRCUITS

4-4-1 BAND SELECTION DATA (PLL UNIT)

To select the correct bandpass filter, low-pass filter and VCOs on the MAIN and PLL units, the CPU outputs the following band selection data from the I/O expander (IC320, IC323) depending on the displayed frequency.

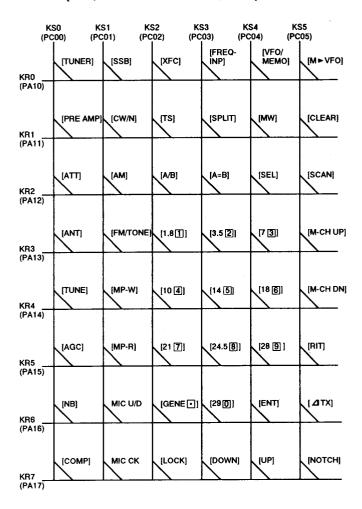
BAND SELECTION DATA

EDECHENOV	IC320		IC323	
FREQUENCY (MHz)	BPF	BAND VOLTAGE	LPF	vco
0.5-1.59999	B0	7.4 V	L1	
1.6-1.99999	B1	7.4 V	L1	VCO1
2.0-3.99999	B2	6.1 V	L2	*001
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	L-4	V002
15.0-21.99999	B6	3.2 V	L5	VCO3
22.0-29.99500	B7	2.2 V	L6	VCO4

4-4-2 RIT CONTROL (PLL UNIT)

The [RIT] control shifts a voltage to shift the receive frequency. The voltage is applied to IC308 (pin 4). IC308 is an A/D converter which outputs 8-bit serial data corresponding to analog input voltage. The resulting serial data is applied to the I/O interface (IC306) port PB00.

4-4-3 KEY MATRIX (SW, M-CH AND PLL UNITS)



4-4-4 CPU (PLL UNIT)

The CPU (IC303) contains an 8-bit CMOS CPU with a 12.288 MHz clock for rapid operation. The CPU controls the operating frequency, mode, function display, etc. The memory contents such as memory channel information are stored in the RAM IC chip (IC305) using a lithium backup battery which has a normal life of more than 5 years.

The Icom CI-V network system allows the IC-737A to be remotely controlled by a personal computer using an RS-232C I/O port.

4-4-5 I/O INTERFACE PORT ALLOCATIONS (PLL UNIT: IC306)

• INPUT PORTS

	• INPUT PORTS			
PORT NAME	PIN NUMBER	DESCRIPTION		
KR0-KR7 (PA10- PA17)	23–19, 17–15	Input ports for return signals of the key matrix.		
DIDN, DIUP (PC16, PC17)	29, 28	Input ports for up/down signal of the main dial.		
DITS (PC15)	30	Input port for rapid rotation of the main dial.		
DIQ1-DIQ5 (PC10- PC14)	31–35	Input ports for 5-bit data of the main dial.		
ADDT (PB00)	47	Input port for serial data of the [RIT] control.		
IKEY (PB01)	48	Input port for the internal antenna tuner. This port becomes "LOW" while tuning.		
EKEY (PB02)	49	Input port for the external antenna tuner (AH-3). This port becomes "LOW" when the antenna cannot be tuned.		
CONNECT (PB03)	50	Input port for connection of the external antenna tuner. This port becomes "HIGH" when an external antenna tuner (AH-3) is connected.		
SQLS (PB04)	52	Input port for the squelch signal. This port becomes "LOW" when the squelch is open.		
TRC (PB05)	53	Input port for transmit/receive switching signal. This port becomes "HIGH" while transmitting.		
CBUS (PB06)	55	Input port for busy signal of the CI-V bus line. This port becomes "HIGH" when the bus line is busy.		

OUTPUT PORTS

PORT NAME	PIN	DESCRIPTION
	NUMBER	
STEN (PC07)	4	Outputs a strobe enable signal.
KS0-KS6 (PC00- PC06)	5, 7–11, 13	Output strobe signals for the key matrix and output expanders.
CRES (PB11)	37	Outputs a reset signal for the CI-V bus latch.
PODN (PB12)	38	Outputs a control signal for setting the tuning output power of the AH-3.
CSEN (PB13)	39	Outputs a control signal for tuning transmission.
ESTART (PB14)	40	Outputs a control signal for the external antenna tuner (AH-3).
ISTART (PB15)	42	Outputs a control signal for turning the internal antenna tuner ON.
ADCS (PB16)	43	Outputs an enable signal for the output expanders.
ADCK (PB17)	44	Outputs a clock signal for the output expanders.
28M (PA06)	72	Outputs a 28 MHz band signal for the ALC circuit.
DSTB (PA04)	74	Outputs a strobe signal for PLL (IC201) .
PSTB (PA03)	75	Outputs a strobe signal for the VCO selector (IC323).
INH (PA02)	76	Outputs an inhibit signal for the LCD drivers and output expanders.
LCE1, LCE2 (PA00, PA01)	78, 77	Output enable signals for the LCD drivers.

4-5 ANTENNA TUNER CIRCUITS 4-5-1 MATCHING CIRCUIT (TUNE UNIT)

The matching circuit is a T-network. Using 2 motors, the matching circuit obtains rapid overall tuning speed.

Using relays (RL1-RL6), the BPF selector signal (B2-B7) from the PLL unit grounds one of the taps of L1-L4. After selecting the coils, 2 motors (TUNER unit MF1, MF2) adjust C1 and C2 using the output of a motor control circuit to obtain a low SWR (Standing Wave Ratio).

4-5-2 DETECTOR CIRCUIT (CTRL UNIT)

The antenna tuner has 3 detector circuits: an SWR detector, a resistance component detector and a reactance component detector.

Forward and reflected power are picked up by L1, detected by D1 and D2, and then amplified at IC1a/b. The amplified voltages are applied to the SWR board. The SWR board outputs a signal according to the ratio of forward power to reflected power. The signal is compared with the reference voltage at IC6a to detect SWR exceeding 3:1.

Resistance components are picked up by L12 and detected by D8 and D9. D8 outputs negative voltage and D9 outputs positive voltage. Output voltage of the resistance component detector is added to the voltage output from D8 and D9. When antenna impedance is higher than $50\,\Omega$, output voltage is negative; when lower than $50\,\Omega$, positive.

Reactance components are picked up by comparing the phases of the RF current and RF voltage. The RF current is detected by L10 and R36. RF voltage is detected by C17–C19. Both detector voltages are buffer-amplified at Q1, Q2, Q25 and Q26, and are then applied to the phase comparator (IC3, IC5). The output signal of IC5 is detected at D6 and D7. When the RF current phase leads the voltage phase, the detected voltage is negative; when the current lags the voltage, the detected voltage is positive.

4-5-3 MOTOR CONTROL CIRCUIT (CTRL UNIT)

The antenna tuner CPU (IC10) controls the tuning motors and memorizes the best preset position on each band. The memory contents are stored in the CPU using a lithium backup battery which has a normal life of more than 5 years.

The output signal of the resistance detector is compared with a reference voltage (V_{REF}) at IC6 (pins 5 and 6), and applied to the A/D converter section (IC10, pin 19). The CPU outputs an RC1 or RC2 signal to the motor driver (IC9) to drive the motor (TUNER unit MF2) in the matching circuit. These signals become a pulse signal just around the preset position for precise and rapid tuning. To detect C2 rotation, voltage from the variable resistor (VR-E unit R1) is applied to the CPU.

The output signal of the reactance detector is compared with the reference voltage ($V_{\text{\tiny REF}}$) at IC6 (pins 12 and 13), and applied to the A/D converter section (IC10, pin 18). The CPU outputs a φ C1 or φ C2 signal to the motor driver (IC9) to drive the motor (TUNER unit MF1) in the matching circuit. To detect C1 rotation, a voltage from the variable resistor (VR-D unit R1) is applied to the CPU.

The reset circuit halts the CPU while the motor is not controlled. When the operating band is changed, the band signal comparator (IC13) outputs a "LOW" signal to a reset control circuit. The reset control circuit turns the CPU ON, setting C1 and C2 on the TUNE unit to their preset positions.

When the antenna tuner cannot tune from a previously memorized preset position, a re-try function is activated. The re-try function tunes C1 and C2 from end to end 3 times.

4-5-4 ANTENNA TUNER CPU PORT ALLOCATIONS

• INPUT PORTS

PORT NAME	PIN NUMBER	DESCRIPTION
φPV	16	Input port for the detection of C1 position.
RPV	17	Input port for the detection of C2 position.
ф	18	Input port for the reactance detection voltage. This voltage becomes $V_{\text{\tiny REF}}/2$ when the antenna is matched.
R	19	Input port for the resistance detection voltage. This voltage becomes $V_{\text{\tiny REF}}/2$ when the antenna is matched.
WR	23	Input port for the WRITE mode signal.
SET	24	Input port for the SET signal.
PWRS	26	Detects the power voltage. When the signal is "LOW," the CPU is backed up.
B1-B3	29–27	These are input ports for the 3-bit band signal from the PLL unit.
SEND	. 30	Inputs transmit/receive switching signals. This port becomes "LOW" while transmitting.
SWR	31	Detects an SWR signal. When the SWR exceeds 3, this port becomes "HIGH."
TUNR	32	Detects a tuner switch signal. The signal is "HIGH" when the [TUNER] switch is turned ON.
RESET	34	Inputs a reset signal. This port becomes "HIGH" at the beginning of transmission or when the operating band is changed.

• OUTPUT PORTS

PORT NAME	PIN NUMBER	DESCRIPTION
WAIT	6	Outputs a control signal for the [TUNE] indicator. This port becomes "HIGH" while tuning or pre-setting. This port becomes "HIGH" and "LOW" alternately when the antenna tuner cannot tune the antenna with the re-try function.
b1-b3	10–8	These are output ports for the current 3-bit band signal of the antenna tuner.
ф С1, ф С2	12, 11	Output control signals for MF1.
RC1, RC2	14, 13	Output control signals for MF2.
V _{REF}	20	Outputs a reference voltage for the resistance and reactance detectors.
WAKE	25	Outputs a control signal for the reset circuit. This port becomes "HIGH" while the CPU clock is oscillated.
TUN	39	Outputs a tuner switch signal. The signal is "HIGH" when the TUNR port is "HIGH."

4-6 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 (PLL UNIT)

+ 5 V DC is provided by a three-terminal voltage regulator (IC302).

(2) +8 V REGULATOR (MAIN UNIT)

+ 8 V DC is provided by a three-terminal voltage regulator (IC14).

(3) - 5 V REGULATOR (PLL UNIT)

IC317 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 D318 and D319, regulated by a Zener diode (D320) and C347/C348, and is then applied to the MAIN and CTRL units.

SECTION 5 ADJUSTMENT PROCEDURES

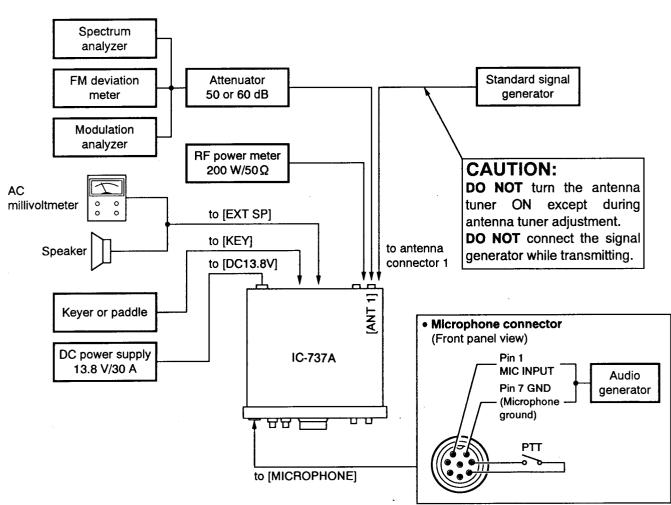
5-1 PREPARATION BEFORE SERVICING

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		: 10-200 W	Ammeter	Measurement capability: 1 A and 30 A		
(terminated type)	Impedance	: 1.8–30 MHz : 50 Ω : Less than 1.2 : 1	Audio generator	Frequency range : 300-3000Hz Output level : 1-500 mV		
Frequency counter	requency range : 0.1–100 MHz Frequency accuracy: ± 1 ppm or bette		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	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 M Ω/DC or better		Measuring range : 0 to ±10 kHz		
Standard signal generator (SSG)	1	: 0.1–100 MHz : 0.1 μV–32 mV	Modulation analyzer	Frequency range : At least 30 MHz Measuring range : 0-100%		
		(-127 to -17 dBm)	External speaker	Impedance : 8 Ω		
Distortion meter		1 kHz ±10%	· ·	Max. input power : 5 W		
	Measuring range	: 1–100%	Terminator	Resistance : 50 and 150 Ω		
Oscilloscope		: DC-20 MHz : 0.0110 V		Capacity : 150 W or more		

CW: Clockwise CCW: Counterclockwise

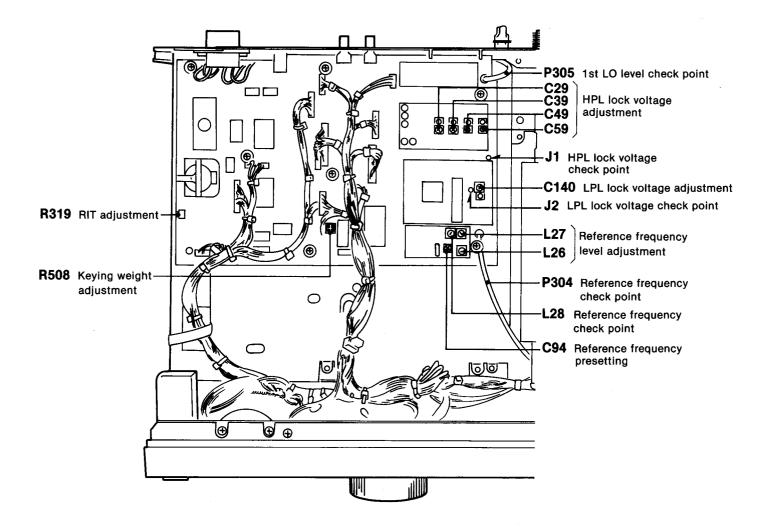
CONNECTION



5-2 PLL ADJUSTMENT

ADJUSTMENT		ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSTMEN	11	ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
REFERENCE FREQUENCY	1	Displayed frequency: 14.10000 MHz Mode: USB Terminate P304 with a 50 Ω resistor. Receiving	PLL	Connect the RF voltmeter to P304.	Preset to center as shown below.	PLL	C94
	2				Maximum level (+1 dBm to +5 dBm)		L26, L27
	3			Connect the frequency counter to P304.	60.0000 MHz		L28
	4	After adjustment, remove the resistor from	m P304 , tl	nen re-plug it to the prev	rious place.		
LPL LOCK VOLTAGE	1	Displayed frequency: 14.00000 MHz Mode : USB Receiving	PLL	Connect the digital multimeter or oscilloscope to J2.	1.0 V DC	PLL	C140
	2	Displayed frequency: 13.99999 MHz			2.2-2.8 V DC		Verify
HPL LOCK VOLTAGE	1	Displayed frequency: 7.99999 MHz Mode : USB Receiving	PLL	Connect the digital multimeter or oscilloscope to J1.	6.5 V DC	PLL	C29
	2	Displayed frequency: 14.99999 MHz		:	6.5 V DC		C39
	3	Displayed frequency: 21.99999 MHz		The part of the pa	6.5 V DC	1	C49
	4	Displayed frequency: 30.00000 MHz			6.5 V DC		C59
	5	Displayed frequencies: 0.50000 MHz, 8.00000 MHz, 15.00000 MHz and 22.00000 MHz			More than 1.65 V DC		Verify
1st LO OUTPUT LEVEL	1	Displayed frequency: 14.10000 MHz Mode : USB Terminate P305 with a 50 Ω resistor. Receiving	PLL	Connect the RF voltmeter to P305.	More than - 2 dBm	PLL	Verify
	2	After confirmation, remove the resistor from	om P305	then re-plug it to the pre	vious place.		
RIT	1	Displayed frequency: 14.10000 MHz Mode : USB [RIT/△TX] control : Center [RIT] switch : ON Receiving	Front panel	RIT/⊿TX frequency readout	0.00 kHz	PLL	R319
		NOTE: If R319 cannot adjust the RIT/⊿T thread.	TX frequer	ncy readout to 0.00 kHz,	, move the [RIT/⊿TX] kno	b to a neig	nboring
KEYING WEIGHT	1	NOTE: Be sure that R508 in the PLL unit	t is turned	max. counterclockwise.		and the second	

• PLL UNIT

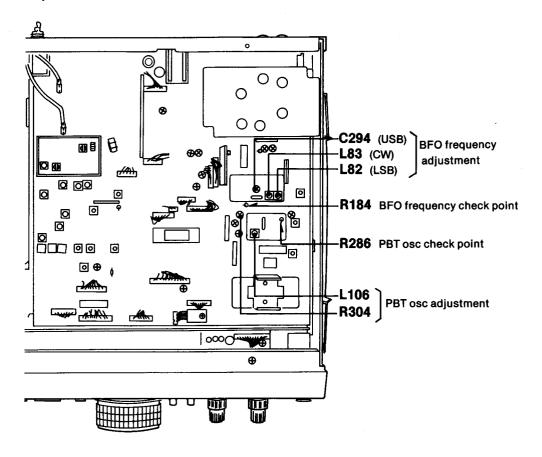


5-3 RECEIVER ADJUSTMENT

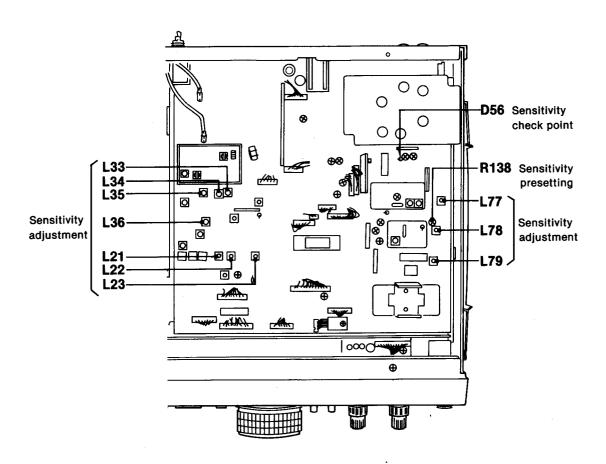
		ADJUSTMENT CONDITIONS		MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSTMEN	11	ADJUSTMENT CONDI	IIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
BFO FREQUENCY	1	Displayed frequency: 14.1 Mode : USB Receiving		MAIN	Connect the frequency counter to R184.	9.01300 MHz	MAIN	C294
	2	Mode : CW Transmitting				9.01060 MHz		L83
	3	Mode : LSB Receiving				9.01000 MHz		L82
	4	Mode : CW Receiving				9.00980 MHz (± 150 Hz)		Verify
	5	Mode : AM Receiving				No output		
PBT OSC	1	Displayed frequency: 14.1 Mode : USB [PBT] control : Cent Receiving	3	MAIN	Connect the frequency counter to R286.	9.46650 MHz	MAIN	L106
	2	Mode : CW Receiving				9.46560 MHz		R304
	3	Mode : AM Receiving				9.46500 MHz (± 500 Hz)		Verify
	4	Mode : CW [PBT] control : Max				Higher than 9.46710 MHz		
	5	Mode : CW [PBT] control : Max	. CCW			Lower than 9.46410 MHz		
SENSITIVITY	1	• [NB] switch : OFF • [RIT] switch : OFF	: [1 : t (ON)	MAIN	Connect the digital multimeter or oscilloscope to the cathode of D56.	Maximum voltage	MAIN	Adjust in sequence L33, L34, L35, L36, L22, L23
	2	Connect the SSG to the [A connector and set as: Frequency: 14.0985 MI Level: 50 μV* (- Modulation: FM/1 kHz Deviation: ± 15 kHz	Hz	Rear panel	Connect the distortion meter to the [EXT SP] jack with an 8 Ω load.	Minimum distortion level		L21
	3	Mode: AM Set the SSG as: Modulation: AM/1 kHz Deviation: ± 6 kHz R138 (MAIN): Max Receiving: AM/1 kHz Modulation:	c, CW	MAIN	Connect the digital multimeter or oscilloscope to the cathode of D56.	Maximum voltage		Adjust in sequence L79, L78, L77

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

• MAIN UNIT (for BFO and PBT adjustment)



• MAIN UNIT (for sensitivity adjustment)



RECEIVER ADJUSTMENT (CONTINUED)

AD HIGTMEN	ıT	ADJUSTMENT CONDITIONS	М	EASUREMENT	VALUE	ADJUSTMENT POINT	
ADJUSTMEN	11	ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
TOTAL GAIN	1	Displayed frequency: 14.10000 MHz Mode: USB [PRE AMP] switch: OFF Connect the SSG to the [ANT 1] connector and set as: Frequency: 14.1015 MHz Level: 1.0 mV* (-47 dBm) Modulation: OFF Receiving	Rear panel	Connect the AC milli-voltmeter to the [EXT SP] jack with an 8 Ω load.	1.0 V (0 dB)	Front panel	[AF] control
	2	Set the SSG as: Level : OFF			32 mV (– 30 dB)	MAIN	R138
S-METER	1	 Displayed frequency: 14.10000 MHz Mode : USB [PRE AMP] switch : OFF Connect the SSG to the [ANT 1] connector and set as: Frequency: 14.1000 MHz Level : 50 μV* (-73 dBm) Modulation: OFF Receiving 	Front panel	S-METER	S9	MAIN	R110
	2	• Set the SSG as: Level : 50 mV* (- 13 dBm)			S9 + 60 dB		R116
	3	Repeat steps 1 and 2 several times.					<u> </u>
FM S-METER		Displayed frequency: 29.00000 MHz Mode: FM [PRE AMP] switch: ON Connect the SSG to the [ANT 1] connector and set as: Frequency: 29.0000 MHz Level: 1.0 mV* (-47 dBm) Modulation: OFF Receiving	Front panel	S-METER	S9 + 60 dB	FMAM	R14
NOISE BLANKER	1	Displayed frequency: 14.10000 MHz Mode : USB [NB] switch : OFF [PRE AMP] switch : ON Receiving Connect the SSG to the [ANT 1] connector and set as: Frequency: 14.1000 MHz Level : 3.2 µ V* (-97 dBm) Modulation: OFF Apply the following signal to the SSG's output.	MAIN	Connect the oscilloscope to the cathode of D13.	Adjust for maximum waveform on the oscilloscope.	MAIN	L25, L26
	2	[NB] switch : ON Set the SSG as: Level : 10 μV* (-87 dBm) Modulation: OFF Apply the same signal as shown above.			The point of maximum noise suppression.		R307
BEEP TONE		NOTE: Be sure that R321 in the MAIN u	nit is set at	center.			T
DIMMER	1	Receiving	DISPLAY	Connect the DC volt- meter to a soldering point of the DS1 lead wire (LAMP+).	10.0 V DC	AF	R18

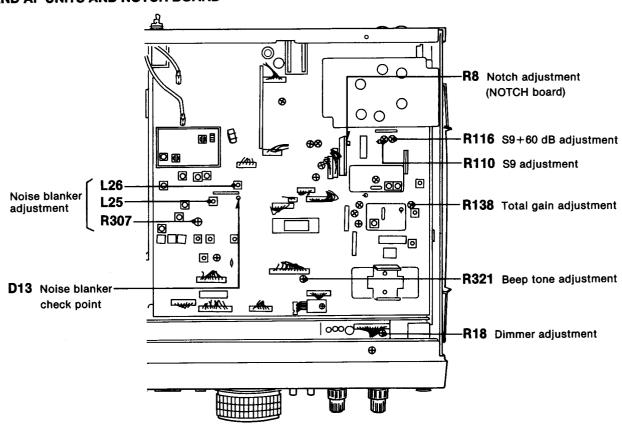
^{*} This output level of the standard signal generator (SSG) is indicated as SSG's open circuit.

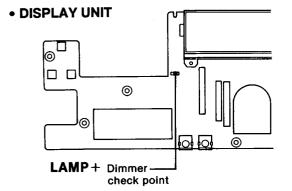
RECEIVER ADJUSTMENT (CONTINUED)

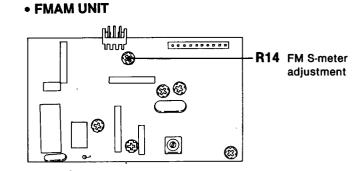
			MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSTMEN	ADJUSTMENT ADJUSTMENT CONDITIONS		UNIT	LOCATION	VALUE	UNIT	ADJUST
нотсн	1	Displayed frequency: 14.10000 MHz Mode: AM PRE AMP] switch: OFF NB] switch: OFF NOTCH] switch: ON	Rear panel	Connect the AC milli-voltmeter to the [EXT SP] jack with an 8 Ω load.	Minimum voltage	Front panel	[NOTCH] control
		[NOTCH] control : Max. CW Connect the SSG to the [ANT 1] connector and set as: Frequency: 14.1000 MHz Level : 1.0 mV* (- 47 dBm) Modulation: 30% AM/3 kHz Receiving			Minimum voltage	мотсн	R8
	2	Set the SSG as: Modulation: 30% AM/500 Hz			Confirm that the minimum voltage point exits while rotating the [NOTCH] control to counterclockwise.		Verify

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

• MAIN AND AF UNITS AND NOTCH BOARD



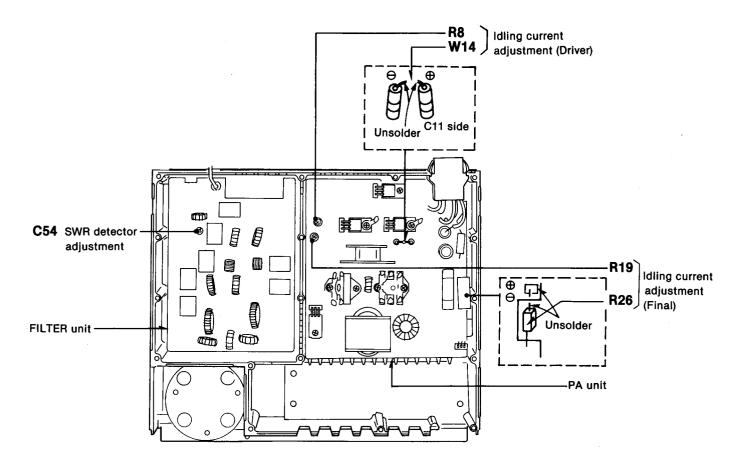




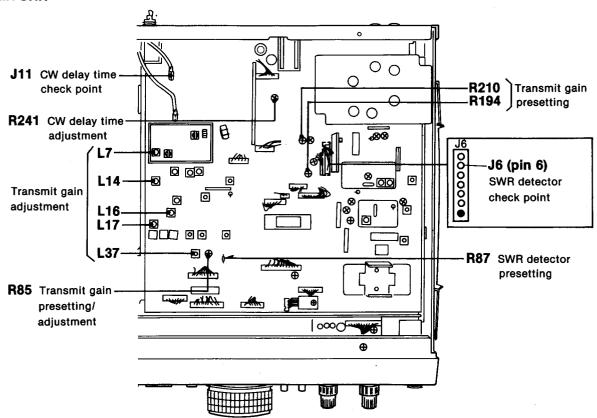
5-4 TRANSMITTER ADJUSTMENT

ADJUSTMENT		ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSTMEN	11	ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
IDLING CURRENT (A) For drive transistors	1	Displayed frequency: 14.10000 MHz Mode: CW ITRANSMIT] switch: IN IKEY] jack: No connection IRF PWR] control: Max. CW ANT] switch: ANT 1 ITUNER] switch: OFF	PA	Unsolder W14 and connect the ammeter to the unsoldering points.	100 mA	PA	R8
® For final transistors	2	• Re-solder W14.		Unsolder R26 and connect the ammeter to the unsoldering points.	300 mA		R19
	3	After adjustment, re-solder W14 and R26	3.				
SWR DETECTOR	Displayed frequency: 14.10000 MHz Mode : USB [RF PWR] control : Max. CW [ANT] switch : ANT 1 Connect the jumper wire between R87 (MAIN unit) and a ground.		Rear panel	Connect the RF power meter to the [ANT 1] connector.	100 W	Front panel	[MIC] control
	2	Connect the audio generator to the [MICROPHONE] connector and set as: Level : 10 mV Frequency : 1.5 kHz Transmitting	MAIN	Connect the DC voltmeter to J6 (pin 6).	Minimum	FILTER	C54
	3	After adjustment, remove the jumper wire	e from R8	7.			
TRANSMIT GAIN	1	Displayed frequency: 14.10000 MHz Mode : USB [RF PWR] control : Max. CW R85, R210 (MAIN unit): Max. CW R194 (MAIN unit) : Max. CCW	Rear panel	Connect the RF power meter to the [ANT 1] connector.	50 W	Front panel	[MIC] control
	2	[ANT] switch : ANT 1 Connect the audio generator to the [MICROPHONE] connector and set as: Level : 3 mV Frequency: 1.5 kHz Transmitting			Maximum	MAIN	L37, L17, L16, L14, L7
	3	• [MIC] control : Center			50 W		R85
		NOTE: Adjust the [MIC] control to keep to	he output	power at 50W for each a	djustment.	1	1
CW DELAY TIME	1	Displayed frequency: 14.10000 MHz Mode: CW TRANSMIT] switch: ON (IN) RF PWR] control: Max. CCW KEY SPEED] control: Max. CW ELEKEY] switch: ON (IN) Connect a keyer to the [KEY] jack and key down.	MAIN	Connect the oscilloscope to J11 and R247 to have a trigger on the oscilloscope.	Adjust as follows: Keying J11 10 msec.	MAIN	R241

• PA AND FILTER UNITS



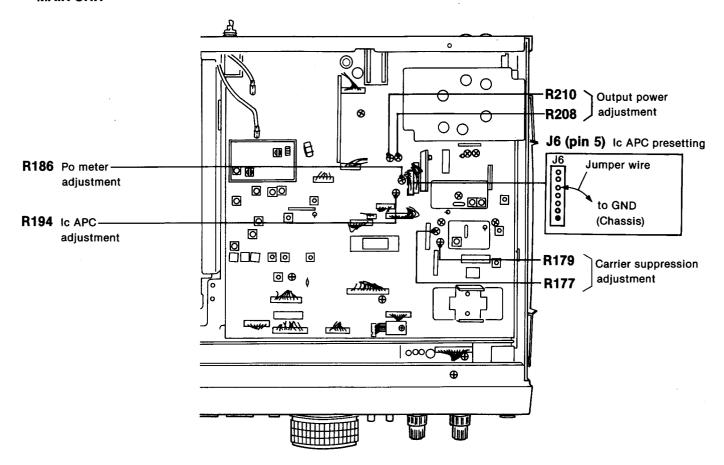
• MAIN UNIT



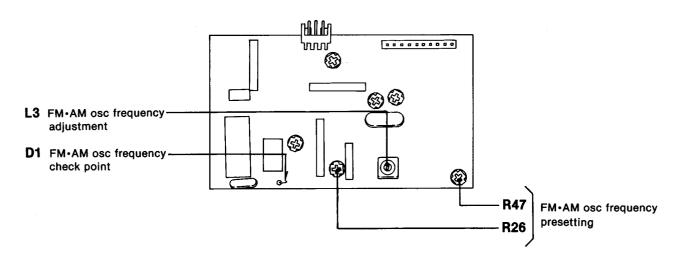
TRANSMITTER ADJUSTMENT (CONTINUED)

AD HIGTAICA	_	ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSTMEN	1	ADJUSTMENT CONDITIONS	UNIT	LOCATION	VA202	UNIT	ADJUST
OUTPUT POWER	1	Displayed frequency: 28.50000 MHz Mode: CW [TRANSMIT] switch: ON (IN) TUNER] switch: OFF [RF PWR] control: Max. CW [ELEKEY] switch: OFF (OUT) Connect a keyer to the [KEY] jack and key down.	Rear panel	Connect the RF power meter to the [ANT 1] connector.	100 W	MAIN	R210
	2	• Mode : AM			40 W		R208
	3	Mode : CW [RF PWR] control : Max. CCW			5–15 W		Verify
	4	Repeat steps 1-3 several times.					
Ic APC	4	Displayed frequency: 14.10000 MHz Mode: CW TRANSMIT] switch: ON (IN) TUNER] switch: OFF RF PWR] control: Max. CW Connect the jumper wire between J6 (pin 5, MAIN unit) and a ground. Connect a keyer to the [KEY] jack and key down.	Rear panel	Connect the ammeter between the DC power supply and IC-737A.	22 A	MAIN	R194
	2	After adjustment, remove the jumper wire	e from J6	(pin 5).			
Po METER	1	Displayed frequency: 14.10000 MHz Mode: CW TRANSMIT] switch: ON (IN) RF PWR] control: Max. CW Connect a keyer to the [KEY] jack and key down.	Front panel	S-METER	100%	MAIN	R186
CARRIER SUPPRES- SION	- tan	Displayed frequency: 14.10000 MHz Mode: USB and LSB IMIC] control: Max. CCW Apply no signal to the IMICROPHONE] connector. Transmitting	Rear panel	Connect the spectrum analyzer to the [ANT 1] connector via the attenuator.	Minimum carrier level (Less than – 50 dB)	MAIN	R177, R179 (Alternate adjust- ment)
FM•AM OSC FREQUENCY	1	Displayed frequency: 29.10000 MHz Mode : FM R26 (FMAM unit) : Max. CW R47 (FMAM unit) : Max. CCW Transmitting	FMAM	Connect the frequency counter to the cathode of D1.	9.01000 MHz	FMAM	L3

• MAIN UNIT



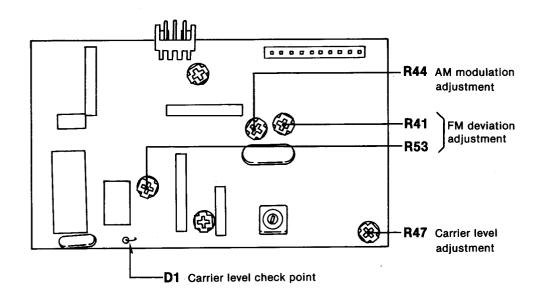
• FMAM UNIT



TRANSMITTER ADJUSTMENT (CONTINUED)

ADJUSTMEN		ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSTME	N I	ADJUSTMENT CONDITIONS	UNIT LOCATION		VALUE	UNIT	ADJUST
FM DEVIATION	1	Displayed frequency: 29.10000 MHz Mode : FM [MIC] control : Max. CW Connect the audio generator to the [MICROPHONE] connector and set as: Level : 10 mV Frequency : 1 kHz Set the FM deviation meter as: HPF : 50 Hz LPF : 20 kHz De-emphasis: OFF Detector : (P - P)/2 Transmitting	FMAM	Connect the FM deviation meter to the [ANT 1] connector via the attenuator.	± 4.8 kHz	FMAM	R41
	2	[MIC] control : Center Set the audio generator as: Level : 1 mV			± 3.5 kHz		R53
	3	Repeat steps 1 and 2 several times.	٠				
CARRIER LEVEL	1	Displayed frequency: 29.10000 MHz Mode : FM R26 (FMAM unit) : Center Transmitting	FMAM	Connect the oscilloscope to the cathode of D1.	350 mVp-p	FMAM	R47
AM 1 MODU- LATION		Displayed frequency: 29.10000 MHz Mode: AM R44 (FMAM unit): Center [MIC] control: Max. CW Connect the audio generator to the	FMAM	Connect the modulation analyzer to the [ANT 1] connector via the attenuator.	Maximum level		generator requency
	2	[MICROPHONE] connector and set as: Level : 1 mV Frequency : 1 kHz • Transmitting			70% modulation	FMAM	R44

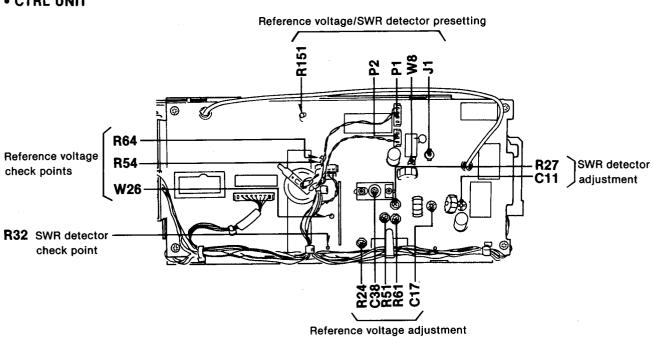
• FMAM UNIT



5-5 ANTENNA TUNER ADJUSTMENT

		AD HIGHENIT CONDITIONS	N	EASUREMENT	VALUE	ADJUSTMENT POINT	
ADJUSTMEN	41	ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
REFERENCE VOLTAGE	1	Mode : USB Disconnect J4 and J5 (CTRL unit).		Connect the digital multimeter or oscilloscope to W26.	4.6–5.0 V DC	CTRL	Verify
	2	De-solder W8 (CTRL unit). Connect the power meter or 50 Ω dummy load to J1.		Connect the digital multimeter or oscilloscope to R64.	Half the value of the W26 voltage. (Step 1 above)		R61
	3		·	Connect the digital multimeter or oscilloscope to R54.	Half the value of the W26 voltage. (Step 1 above)		R51
	4 • Mode : CW • C17, R24 (CTRL unit) : Center C17 R24		Connect the digital multimeter or oscilloscope to R64.	Half the value of the W26 voltage. (Step 1 above)		C38	
	5	[TRANSMIT] switch : ON (IN) [RF PWR] control : Max. CW Connect a keyer to the [KEY] jack and key down.		Connect the digital multimeter or oscilloscope to R54.	Half the value of the W26 voltage. (Step 1 above)		C17, R24
		NOTE: Keep the presettings of the jumps completed.	er wire at I	R151, P1, P2, W8 and th	ne 50 Ω resistor until the fo	llowing ad	justment is
SWR DETECTOR	1	Displayed frequency: 1.91000 MHz Mode: CW [TRANSMIT] switch: ON (IN) [RF PWR] control: Max. CW Connect a keyer to the [KEY] jack and key down.	CTRL	Connect the digital multimeter or oscilloscope to J14.	Minimum voltage	CTRL	C11
	2	• Terminate J1 (CTRL unit) with a 150 Ω load. (SWR3 dummy load)		Connect the digital multimeter or oscilloscope to R32.	Adjust R27 volume to the 0 V point where the voltage just changes from 0 V to 5 V.		R27
	3	After adjustment, remove the jumper wire	e from R1	51. Re-plug P1 and P2.	Re-solder W8. Remove t	he 150 Ω	resistor.

• CTRL UNIT



SECTION 6 PARTS LIST

[FRONT UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
R1	7010004190	RESISTOR	R20J 1 kΩ
ME1	5510000400	METER	ME-32 (MG-113S) [MAIN DIAL]
W4	7120000010	JUMPER	JPW 02A [METER LAMP]
S1	2250000110	ENCODER	SW-147 (EC24B50B)
DS1	5080000310	LAMP	HRS-4200A H-9 L150

[DISPLAY UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
IC1	1130004190	S.IC	LC7582A
IC2	1130004190	S.IC	LC7582A
Q2	1530000110	TRANSISTOR	2SC2458-GR
D1	1730000110	ZENER	RD5.6E B2
L1	6180000900	COIL	LAL 03NA 101K
L2	6180000900	COIL	LAL 03NA 101K
L3	6180000900	COIL	LAL 03NA 101K
L4	6180000900	COIL	LAL 03NA 101K
L5	6180000900	COIL	LAL 03NA 101K
L6	6180000900	COIL	LAL 03NA 101K
L7	6180001510	COIL	LAL 02NA 101K
L34	6180000960	COIL	LAL 03NA 102K
L35	6180000960	COIL	LAL 03NA 102K
Rt	7010004311	RESISTOR	R20 T-24J 8.2 kQ
R2	7010004241	RESISTOR	R20 T-24J 2.7 kΩ
R3	7010004191	RESISTOR	R20 T-24J 1 kΩ
R4	7010004111	RESISTOR	R20 T-24J 220 Ω
R5	7010004720	RESISTOR	R50XJ 100 Ω
R6	7010004720	RESISTOR	R50XJ 100 Ω
R8	7010004411	RESISTOR	R20 T-24J 47 kΩ
R9	7010004411	RESISTOR	R20 T-24J 47 kΩ
R16	7210002190	VARIABLE	EVU-FLAEA4 B14 (10KB) [RF PWR]
R17	7210001880	VARIABLE	EVU-FLAEA4 C13 (1KC) [COMP LEVEL]
C1	4010000480	CERAMIC	DD104 B 681K 50V
C2	4560000020	CERAMIC	D33Y5V 1E 104Z21
C3	4010000480	CERAMIC	DD104 B 681K 50V
C4	4560000020	CERAMIC	D33Y5V 1E 104Z21
C6	4020000650	CYLINDER	EP050 X 472M
C7	4020000850	CYLINDER	EP050 X 472M
C8	4040000150	BARRIERLAYER	
C9	4020000650	CYLINDER	EP050 X 472M EP050 X 472M
C10	4020000650	CYLINDER	DD308 F 473Z 50V
C11	4010005190	CEMANIC	DD300 F 4/32 30V
J1	6510015500	CONNECTOR	5224-15CHPB
J3	6510015310	CONNECTOR	5224-13CHPB
S1	2260001580	switch	JPZ2120-0101 (TV-3) [POWER]

[DISPLAY UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
S2	2230000800	switch	SW-112 (SPPH24) [TRANSMIT]
S3	2230000800	SWITCH	SW-112 (SPPH24) [VOX/BK-IN]
S4	2230000800	SWITCH	SW-112 (SPPH24) [FULL]
EP1	0910037406	РСВ	B 3660F
DS1 DS3	5030000910 5080000305	LCD LAMP	FTD-11668AAPH HRT-3290A-F
DS4	5080000305	LAMP	[LCD BACKLIGHT] HRT-3290A-F
D54	3080000303	LAMP	[LCD BACKLIGHT]
DS5	5080000305	LAMP	HRT-3290A-F [LCD BACKLIGHT]
DS6	5080000305	LAMP	HRT-3290A-F [LCD BACKLIGHT]

[SW UNIT]

D1	REF. NO.	ORDER NO.		DESCRIPTION
D2				
D3				• •
D4				
D5				
D8 1710000811 DIODE 1SS133 T77 (26M/M) D7 1710000811 DIODE 1SS133 T77 (26M/M) D8 1710000811 DIODE 1SS133 T77 (26M/M) D9 1710000810 DIODE 1SS133 T77 (26M/M) D10 1710000811 DIODE 1SS133 T77 (26M/M) D11 1710000611 DIODE 1SS133 T77 (26M/M) D12 1710000611 DIODE 1SS133 T77 (26M/M) D13 1710000611 DIODE 1SS133 T77 (26M/M) D14 1710000611 DIODE 1SS133 T77 (26M/M) D15 1710000611 DIODE 1SS133 T77 (26M/M) D16 1710000611 DIODE 1SS133 T77 (26M/M) D18 1710000611 DIODE 1SS133 T77 (26M/M) D19 1710000611 DIODE 1SS133 T77 (26M/M) D20 1710000611 DIODE 1SS133 T77 (26M/M) D21 1710000611 DIODE 1SS133 T77 (26M/M) D22 1710000611 DIODE 1SS133 T77 (26M/M)		1		· · · · · · · · · · · · · · · · · · ·
D7 1710000611 DIODE 1SS133 T77 (28M/M) D8 1710000611 DIODE 1SS133 T77 (28M/M) D10 1710000611 DIODE 1SS133 T77 (28M/M) D11 1710000611 DIODE 1SS133 T77 (28M/M) D12 1710000611 DIODE 1SS133 T77 (28M/M) D13 1710000611 DIODE 1SS133 T77 (28M/M) D14 1710000611 DIODE 1SS133 T77 (28M/M) D15 1710000611 DIODE 1SS133 T77 (28M/M) D16 1710000611 DIODE 1SS133 T77 (28M/M) D17 1710000611 DIODE 1SS133 T77 (28M/M) D18 1710000611 DIODE 1SS133 T77 (28M/M) D19 1710000611 DIODE 1SS133 T77 (28M/M) D20 1710000611 DIODE 1SS133 T77 (28M/M) D21 1710000611 DIODE 1SS133 T77 (28M/M) D22 1710000611 DIODE 1SS133 T77 (28M/M) D23 1710000611 DIODE 1SS133 T77 (28M/M)				,
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D30 1710000611 DIODE 1SS133 T77 (26M/M) D31 1710000611 DIODE 1SS133 T77 (26M/M) D32 1710000611 DIODE 1SS133 T77 (26M/M) D33 1710000611 DIODE 1SS133 T77 (26M/M) D34 1710000611 DIODE 1SS133 T77 (26M/M) D35 1710000610 DIODE 1SS133 T77 (26M/M) D36 1710000611 DIODE 1SS133 T77 (26M/M) D37 1710000611 DIODE 1SS133 T77 (26M/M) D38 1710000611 DIODE 1SS133 T77 (26M/M) D39 1710000611 DIODE 1SS133 T77 (26M/M) D40 1710000160 DIODE 1SS133 D41 1710000160 DIODE 1SS133 D42 1710000160 DIODE 1SS133 D43 1710000611 DIODE 1SS133 D77 (26M/M) 1SS133				• • •
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D32	D30	1710000611	DIODE	1SS133 T77 (26M/M)
D33 1710000611 DIODE 1SS133 T77 (26M/M) D34 1710000611 DIODE 1SS133 T77 (26M/M) D35 1710000160 DIODE 1SS133 D36 1710000611 DIODE 1SS133 T77 (26M/M) D37 1710000611 DIODE 1SS133 T77 (26M/M) D38 1710000611 DIODE 1SS133 T77 (26M/M) D39 1710000611 DIODE 1SS133 T77 (26M/M) D40 1710000160 DIODE 1SS133 D41 1710000160 DIODE 1SS133 D42 1710000160 DIODE 1SS133 D43 1710000611 DIODE 1SS133 D43 1710000611 DIODE 1SS133	D31	1710000611	DIODE	• •
D34	D32	1710000611	DIODE	
D35 1710000160 DIODE 1SS133 D36 1710000611 DIODE 1SS133 T77 (26M/M) D37 1710000611 DIODE 1SS133 T77 (26M/M) D38 1710000611 DIODE 1SS133 T77 (26M/M) D39 1710000611 DIODE 1SS133 T77 (26M/M) D40 1710000160 DIODE 1SS133 D41 1710000160 DIODE 1SS133 D42 1710000160 DIODE 1SS133 D43 1710000611 DIODE 1SS133 T77 (26M/M)	D33	1710000611	1	, .
D36 1710000611 DIODE 1SS133 T77 (26M/M) D37 1710000611 DIODE 1SS133 T77 (26M/M) D38 1710000611 DIODE 1SS133 T77 (26M/M) D39 1710000610 DIODE 1SS133 T77 (26M/M) D40 1710000160 DIODE 1SS133 D41 1710000160 DIODE 1SS133 D42 1710000160 DIODE 1SS133 D43 1710000611 DIODE 1SS133 D43 1710000611 DIODE 1SS133 T77 (26M/M)	D34	1710000611	DIODE	1SS133 T77 (26M/M)
D37	D35	1710000160	DIODE	188133
D38 1710000611 DIODE 1SS133 T77 (26M/M) D39 1710000611 DIODE 1SS133 T77 (26M/M) D40 1710000160 DIODE 1SS133 D41 1710000160 DIODE 1SS133 D42 1710000160 DIODE 1SS133 D43 1710000611 DIODE 1SS133 T77 (26M/M)	D36	1710000611	DIODE	, , ,
D39	D37	1710000611	DIODE	1SS133 T77 (26M/M)
D40 1710000160 DIODE 1SS133 D41 1710000160 DIODE 1SS133 D42 1710000160 DIODE 1SS133 D43 1710000611 DIODE 1SS133 T710000611 DIODE 1SS133 T770000611 DIODE 1SS133 T770000611 DIODE 1SS133	D38	1710000611	DIODE	·
D41 1710000160 DIODE 1SS133 D42 1710000160 DIODE 1SS133 D43 1710000611 DIODE 1SS133 T710000611 DIODE 1SS133 T77 (26M/M)	D39	1710000611	DIODE	1SS133 T77 (26M/M)
D42 1710000160 DIODE 1SS133 D43 1710000611 DIODE 1SS133 T77 (26M/M)	D40	1710000160	DIODE	188133
D43 1710000811 DIODE 1SS133 T77 (26M/M)	D41	1710000160	DIODE	
	D42	1710000160	DIODE	
D44 1710000611 DIODE 1SS133 T77 (26M/M)	D43	1710000611	DIODE	
· ·	D44	1710000611	DIODE	1SS133 T77 (26M/M)
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S.=Surface mount

[SW UNIT]

REF.	ORDER		
NO.	NO.		DESCRIPTION
R1	7010004191	RESISTOR	R20 T-24J 1 kΩ
R2	7010004191	RESISTOR	R20 T-24J 1 kΩ
R3	7010004191	RESISTOR	R20 T-24J 1 kΩ
R4	7010004191	RESISTOR	R20 T-24J 1 kΩ
R5	7010004191	RESISTOR	R20 T-24J 1 kΩ
R6	7010004191	RESISTOR	R20 T-24J 1 kΩ
R7	7010004191	RESISTOR	R20 T-24J 1 kΩ
R8	7010004191	RESISTOR	R20 T-24J 1 kΩ
R9	7010004191	RESISTOR	R20 T-24J 1 kΩ
R10	7010001131	RESISTOR	R25X T-24J 680 Ω
R11	7010001151	RESISTOR	R25X T-24J 1 kΩ
J ₁	8510015510	CONNECTOR	SB15P-HVQ-C
J3	6510015240	CONNECTOR	SB13P-HVQ-C
S1	2260001810	SWITCH	SW-142 (SKHQFF) [TUNER]
S2	2260000080	SWITCH	SKHHAM024A [SSB]
S3	2260000080	SWITCH	SKHHAM024A [XFC]
S4	2260001810	SWITCH	SW-142 (SKHQFF)
1		CWITCH	[FREQ-INP]
S5	2260000080	SWITCH	SKHHAM024A
1 00	000000000	CWITCH	[VFO/MEMO]
S6	2260000080	SWITCH	SKHHAM024A [M ► VFO] SW-142 (SKHQFF) [PREAMP]
S7 S8	2260001810 2260000080	SWITCH	SKHHAM024A [CW/N]
S9	2260000080	SWITCH	SKHHAM024A [TS]
S10	2260000080	SWITCH	SKHHAM024A [SPLIT]
S11	2260000080	SWITCH	SKHHAM024A [MW]
S12	2260000080	SWITCH	SKHHAM024A [CLR]
S13	2260001810	SWITCH	SW-142 (SKHQFF) [ATT]
S14	2260000080	SWITCH	SKHHAM024A [AM]
S15	2260000080	SWITCH	SKHHAM024A [A/B]
S16	2260000080	SWITCH	SKHHAM024A [A=B]
S17	2260000080	SWITCH	SKHHAM024A [SEL]
\$18	2260000080	SWITCH	SKHHAM024A [SCAN]
S19	2260001860	SWITCH	SW-148 (SKHHBW)[ANT]
\$20	2260000080	SWITCH	SKHHAM024A [FM/T]
S21	2260000080	SWITCH	SKHHAM024A [1.8 ①] SKHHAM024A [3.5 ②]
S22 S23	2260000080	SWITCH	SKHHAM024A [7.3]
S24	2260001860	SWITCH	SW-148 (SKHHBW)[TUNE]
S25	2260000080	SWITCH	SKHHAM024A [MP-W]
S26	2260000080	SWITCH	SKHHAM024A [10@]
S27	2260000080	SWITCH	SKHHAM024A [14 (5)]
S28	2260000080	SWITCH	SKHHAM024A [18 6]
S29	2260001810	SWITCH	SW-142 (SKHQFF) [AGC]
S30	2260000080	SWITCH	SKHHAM024A [MP-R]
S31	2260000080	SWITCH	SKHHAM024A [21 ⑦]
S32	2260000080	SWITCH	SKHHAM024A [24.5 ®]
S33 S34	2260000080 2260001860	SWITCH	SKHHAM024A [28 (9] SW-148 (SKHHBW)[RIT]
S35	2260001860	SWITCH	SW-140 (SKHQFF) [NB]
S36	2260001010	SWITCH	SKHHAM024A [GENE]
S37	2260000080	SWITCH	SKHHAM024A [29 ⊚]
S38	2260000080	SWITCH	SKHHAM024A [ENT]
S39	2260001860	SWITCH	SW-148 (SKHHBW)[△TX]
S40	2260001810	SWITCH	SW-142 (SKHQFF) [COMP]
S41	2260000080	SWITCH	SKHHAM024A [LOCK]
S42	2260000080	SWITCH	SKHHAM024A [DOWN]
S43	2260000080	SWITCH	SKHHAM024A [UP]
S44	2260001860	SWITCH	SW-148 (SKHHBW)[NOTCH]
EP1	0910037414	PCB	B 3683D
L FF	3310037414	. 55	2 30002
DS1	5040001730	LED	TLR221 [NOTCH]
DS1 DS2	5040001730	LED	TLG221 [RECEIVE]
DS3	5040001720	LED	TLR221 [TRANSMIT]
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[LED BOARD]

REF. NO.	ORDER NO.		DESCRIPTION
J1	6510015490	CONNECTOR	MB3P-90-2
EP1	0910041670	РСВ	B 4109
DS1	5040001730	LED	TLR221 [ANT1]
DS2	5040001730 [AF]	LED	TLR221 [ANT2]
Q1	1530000110	TRANSISTOR	2SC2458-GR
Q2	1530000591	TRANSISTOR	2SC2785 EL
Q3	1530000180	TRANSISTOR	2SC2878-B
Q4	1590000340	TRANSISTOR	RN1202
D1	1710000580	DIODE	1SS265
D2	1710000580	DIODE	1SS265
R1	7210001990	VARIABLE	RV-233(RK1242210)
Do.	701000070	VADIABLE	10KB/10KA [SQL/AF] RV-279 (RK1242210)
R2	7210002270	VARIABLE 250	OKC/10KB [MIC/KEY SPEED]
R3	7010003580	RESISTOR	ELR20J 22 kQ
R4	7010003550	RESISTOR	ELR20J 15 kΩ
R5	7010003530	RESISTOR	ELR20J 10 kΩ
R6	7010004030	RESISTOR	R20J 47 Ω
R7	7010003480	RESISTOR	ELR20J 4.7 kΩ
R8	7010003660	RESISTOR	ELR20J 100 kΩ
R9	7010004450	RESISTOR	R20J 100 kΩ
R10	7010003580	RESISTOR	ELR20J 22 kΩ
R11	7010003530	RESISTOR	ELR20J 10 kΩ
R12	7010003420	RESISTOR	ELR20J 1.5 kΩ
R13	7010003400	RESISTOR	ELR20J 1 kΩ
R14	7010003360	RESISTOR	ELR20J 470 Ω
R15	7010003280	RESISTOR	ELR20J 100 Ω
R16	7010003660	RESISTOR	ELR20J 100 kΩ
R17	7010004450	RESISTOR	R20J 100 kΩ
R18	7310003200	TRIMMER	EVN-2ACA00 B14 (103)
C1	4510003800	ELECTROLITIC	
C2	4510004910	ELECTROLITIC	16 MV 10 SWNP
C3	4510003840	ELECTROLITIC	
C4	4510005000	ELECTROLITIC	16 MV 220 HC
C5	4010000520	CERAMIC	DD108 B 472K 50V
C6	4510003800	ELECTROLITIC	
C7	4510003800	ELECTROLITIC	
C8	4510004990	ELECTROLITIC	16 MV 100 HC
۱.,	8510000170	CONNECTOR	D11D EU C
J1	8510003470	CONNECTOR	B11B-EH-S
J2 J3	6510003400 6510003410	CONNECTOR	B04B-EH-S B05B-EH-S
"	5510000410	201111201011	DUUD EII O
EP1	0910037363	PCB	B 3667C

[VR-A UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
R1	7210002300	VARIABLE	RV-282 (RK0971110) 10KB [PBT]
W1 W2 W3	7120000010 7120000010 7120000010	JUMPER JUMPER JUMPER	JPW 02A JPW 02A JPW 02A
EP1	0910037351	РСВ	B 3666A
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[VR-B UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
R1	7210002290	VARIABLE	RV-280 (RK0971110) 100KC
J1 EP1	6510003390 0910037381	CONNECTOR PCB	[NOTCH] B03B-EH-S B 3671A
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[VR-C UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
R1	7210002280	VARIABLE	RV-281 (RK0971110) 10KB [RIT/⊿TX]
EP1	0910037391	PCB	B 3672A

[M-CH UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
D1	1710000160	DIODE	1SS133
D2	1710000160	DIODE	15\$133
W1	7120000010	JUMPER	JPW 02A
W2	7120000010	JUMPER	JPW 02A
WЗ	7120000010	JUMPER	JPW 02A
S1	2260001870	switch	SW-146 (SRBMIL) [M-CH]
EP1	0910037341	РСВ	B 3665A

[JACK UNIT]

REF. NO.	ORDER NO.		DESCRIPTION	
L1	6180000900	COIL	LAL 03NA 101K	
R1 R2	7010003280 7010003280	RESISTOR RESISTOR	ELR20J 100 Ω ELR20J 100 Ω	
C1	4020000250	CYLINDER	UP125 X 472M	
W1	7120000010	JUMPER	JPW 02A	
J1 J2	6510003390 6450000191	CONNECTOR CONNECTOR	B03B-EH-S HLJ4815-01-030	[PHONES]
EP1	0910037371	РСВ	B 3670A	

[MIC UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
J1	6510000190	CONNECTOR	FM214-8SS(P) [MIROPHONE]
EP1	0910006331	FPC	B 792A

[MAIN UNIT]

REF.	ORDER NO.	DESCRIPTION		
IC1 IC2 IC4 IC5 IC6 IC7 IC8	179000050 1110003140 1110002500 1110001320 1110001320 1110001320 1130000120 1110000890	IC IC IC IC IC IC	ND487C1-3R LA1150N M5218AL μPC1037HA μPC1037HA μPC1037HA TC4086BP μPC1241H	
IC9	1110000890		µРС1241Н	

IMAIN UNIT

International Color	MAIN U	N UNIT]				
Color				DESCRIPTION		
ICC13	IC10	1110002500	IC	M5218AL		
Color						
C1						
C1						
Q2 1580000230 FET 3SK122 K Q3 1580000210 TRANSISTOR 2SC2053 Q5 1520000230 TRANSISTOR 2SB8999M Q Q6 1580000100 TRANSISTOR RN1202 Q7 1580000100 FET 2SK241-Y Q8 1580000820 FET 2SK937 Q11 1580000340 TRANSISTOR RN2202 Q11 1580000340 TRANSISTOR RN2202 Q13 1580000320 TRANSISTOR RN1202 Q15 1580000340 TRANSISTOR RN1202 Q15 158000010 TRANSISTOR RN1202 Q15 158000010 TRANSISTOR RN1202 Q15 158000010 TRANSISTOR RN2202 Q15 158000010 TRANSISTOR RN2202 Q21 158000010 TRANSISTOR RN2202 Q22 158000010 TRANSISTOR RN2202 Q25 158000010 TRANSISTOR RN2202 Q26						
Q2 1580000230 FET 3SK122 K Q3 1580000210 TRANSISTOR 2SC2053 Q5 1520000230 TRANSISTOR 2SB8999M Q Q6 1580000100 TRANSISTOR RN1202 Q7 1580000100 FET 2SK241-Y Q8 1580000820 FET 2SK937 Q11 1580000340 TRANSISTOR RN2202 Q11 1580000340 TRANSISTOR RN2202 Q13 1580000320 TRANSISTOR RN1202 Q15 1580000340 TRANSISTOR RN1202 Q15 158000010 TRANSISTOR RN1202 Q15 158000010 TRANSISTOR RN1202 Q15 158000010 TRANSISTOR RN2202 Q15 158000010 TRANSISTOR RN2202 Q21 158000010 TRANSISTOR RN2202 Q22 158000010 TRANSISTOR RN2202 Q25 158000010 TRANSISTOR RN2202 Q26						
Tanana	Q1	1530000810	TRANSISTOR	2SC2053		
Q4 1530000810 TRANSISTOR 2SB899M Q Q8 1580000340 TRANSISTOR 2SB899M Q Q8 1580000820 TRANSISTOR RN1202 Q8 1580000820 FET 2SK241-Y Q9 1580000820 FET 2SK937 Q10 159000340 FET 2SK937 Q11 158000010 TRANSISTOR RN2202 Q13 1580000820 TRANSISTOR RN2202 Q14 1580000010 FET 2SK937 Q15 1580000010 FET 2SK937 Q15 1580000010 FET 2SK937 Q15 1580000010 FET 2SK937 Q15 1580000010 FET 2SK937 Q17 1580000010 FET 2SK101-GR Q21 1580000100 FET 2SK101-GR Q22 1580000100 FET 2SK241-Y Q23 159000380 TRANSISTOR RN1202 TRANSISTOR RN1202						
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Q58 1530000110 TRANSISTOR 2SC2458-GR Q59 1590000280 FET 2SJ105-Y Q60 1590000350 TRANSISTOR RN1204 Q61 1590000340 TRANSISTOR RN1202 Q62 1590000350 TRANSISTOR RN1204 Q64 1520000230 TRANSISTOR RN1204 Q65 1590000340 TRANSISTOR RN1202 Q67 1590000340 TRANSISTOR RN1202 Q68 1590000340 TRANSISTOR RN1202 Q69 1590000340 TRANSISTOR RN1202 Q70 1590000340 TRANSISTOR RN1202 Q71 1590000340 TRANSISTOR RN1202 Q72 1590000340 TRANSISTOR RN1202 Q72 1590000340 TRANSISTOR RN1202			i			
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Q82 1590000350 TRANSISTOR RN1204 Q84 1520000230 TRANSISTOR 2SB909M Q Q85 1590000340 TRANSISTOR RN1202 Q86 1590000340 TRANSISTOR RN1202 Q87 1590000340 TRANSISTOR RN1202 Q88 1590000340 TRANSISTOR RN1202 Q70 1590000380 TRANSISTOR RN2202 Q70 1590000340 TRANSISTOR RN1202 Q71 1590000340 TRANSISTOR RN1202 Q72 1590000340 TRANSISTOR RN1202						
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Q86 1590000340 TRANSISTOR RN1202 Q87 1590000340 TRANSISTOR RN1202 Q88 1590000340 TRANSISTOR RN1202 Q89 1590000360 TRANSISTOR RN2202 Q70 1590000340 TRANSISTOR RN1202 Q71 1590000340 TRANSISTOR RN1202 Q72 1590000340 TRANSISTOR RN1202		l .				
Q67 1590000340 TRANSISTOR RN1202 Q68 1590000340 TRANSISTOR RN1202 Q69 1590000360 TRANSISTOR RN2202 Q70 1590000340 TRANSISTOR RN1202 Q71 1590000340 TRANSISTOR RN1202 Q72 1590000340 TRANSISTOR RN1202		1				
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Q71 1590000340 TRANSISTOR RN1202 Q72 1590000340 TRANSISTOR RN1202						
Q72 1590000340 TRANSISTOR RN1202						
Q73 1530000180 TRANSISTOR 2SC2878-B						
	Q73	1530000180	TRANSISTOR	2SC2878-B		

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REF. NO.	ORDER NO.		DESCRIPTION		
Q74	1530000110	TRANSISTOR	2SC2458-GR		
Q75	1590000340	TRANSISTOR	RN1202		
Q76 Q77	1530000110 1530000110	TRANSISTOR	2SC2458-GR 2SC2458-GR		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1550000110	INAMOISTON	2302436-GN		
D1	1710000050	DIODE	1SS53		
D2	1710000050	DIODE	1SS53		
D3	1710000050	DIODE	1SS53		
D4 D5	1710000050 1710000050	DIODE	1SS53 1SS53		
D6	1710000050	DIODE	1SS53		
D7 D8	1710000050 1710000050	DIODE	1\$\$53 1\$\$53		
D9	1710000050	DIODE	1SS53		
D12	1710000330	DIODE	1K60		
D13 D14	1710000330	DIODE	1K60 1SS133		
D15	1710000050	DIODE	1SS53		
D16	1710000050	DIODE	1SS53		
D17 D18	1710000160 1710000050	DIODE	1\$\$133 1\$\$53		
D19	1710000050	DIODE	1SS53		
D20	1710000050 1710000050	DIODE	1SS53 1SS53		
D21 D22	1710000030	DIODE	1SS133		
D23	1710000050	DIODE	1SS53		
D24 D25	1710000050 1710000050	DIODE	1\$\$53 1\$\$53		
D26	1710000050	DIODE	1SS53		
D27	1710000160	DIODE	155133		
D28 D29	1710000050 1710000050	DIODE	1\$\$53 1\$\$53		
D30	1710000050	DIODE	1SS53		
D31	1710000050 1710000050	DIODE	1SS53 1SS53		
D32 D33	1710000050	DIODE	1SS53		
D34	1710000160	DIODE	1SS133		
D35 D36	1710000050	DIODE	1SS53 1SS53		
D37	1710000050	DIODE	1SS53		
D38 D39	1710000050 1710000050	DIODE	1SS53 4SS53		
D39	1710000050	DIODE	1SS53		
D41	1710000050	DIODE	18853		
D42 D43	1710000050 1710000050	DIODE	1SS53 1SS53		
D44	1710000050	DIODE	1SS53		
D45 D46	1710000050 1710000050	DIODE	1SS53 1SS53		
D47	1710000050	DIODE	1SS53		
D48	1710000050	DIODE	1SS53		
D49 D50	1710000050 1710000050	DIODE	1\$\$53 1\$\$53		
D51	1710000050	DIODE	1\$\$53		
D52 D53	1710000050 1730001650	DIODE ZENER	1SS53 RD2.2E B1		
D54	1730000060	ZENER	RD3.6E B1		
D55	1710000160	DIODE	1SS133		
D56 D58	1790000070 1710000160	DIODE	1\$\$237 1\$\$133		
D59	1790000070	DIODE	1SS237		
D60 D61	1790000070 1710000611	DIODE	1SS237 1SS133 T77 (26M/M)		
D62	1710000311	DIODE	1K60		
D63	1710000050	DIODE	18853		
D64 D65	1710000160 1710000611	DIODE	1SS133 1SS133 T77 (26M/M)		
D66	1710000611	DIODE	1SS133 T77 (26M/M)		
D67 D68	1710000050 1710000050	DIODE	1\$\$53 1\$\$53		
D69	1710000050	DIODE	1SS53		
D70	1710000050	DIODE	1\$\$53 1\$\$53		
D71 D72	1710000050 1710000160	DIODE	1\$\$53 1\$\$133		
D73	1710000611	DIODE	1SS133 T77 (26M/M)		

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REF.	ORDER NO.		DESCRIPTION
NO.	NO.		
D76	1710000160	DIODE	1SS133
D77 D78	1710000611 1710000160	DIODE	1SS133 T77 (26M/M) 1SS133
D80	1730000070	ZENER	RD3.9E B2
D81	1710000160	DIODE	1SS133
D82	1710000160	DIODE	1SS133
D83	1710000160	DIODE	1SS133
D84 D85	1710000160 1710000160	DIODE	1SS133 1SS133
D86	1710000611	DIODE	1SS133 T77 (26M/M)
D87	1710000611	DIODE	1SS133 T77 (26M/M)
D91 D92	1710000180	DIODE	1SS133 1SS133
D92	1710000100	DIODE	1SS133 T77 (26M/M)
D94	1710000160	DIODE	1SS133
D95	1710000160	DIODE	155133
D96 D97	1710000811 1710000030	DIODE	1SS133 T77 (26M/M) 1S1555
D98	1710000611	DIODE	1SS133 T77 (26M/M)
D101	1720000230	VARICAP	1SV101
D102	1710000580	DIODE	1SS265
D103 D104	1710000580 1710000580	DIODE	1SS265 1SS265
D104	1710000580	DIODE	1SS265
D109	1710000050	DIODE	1SS53
D110	1710000050	DIODE	1SS53
D111 D113	1710000050 1710000160	DIODE	1SS53 1SS133
D114	1710000160	DIODE	155133
D115	1710000160	DIODE	15S133
D116	1710000611	DIODE	1SS133 T77 (26M/M)
D117 D118	1710000580 1710000580	DIODE	1SS265 1SS265
D137	1730000170	ZENER	RD8.2E B1
D138	1730000080	ZENER	RD4.7E B2
D139	1710000160	DIODE	1SS133
Fl1	2010001010	FILTER	69M15B (FL-120)
FI2	2010001010	FILTER	9M15A (FL-23)
FI3	2010000320	FILTER	9M22D2 (FL-30)
FI4	2020000150	CERAMIC	CFW455HT
FI5	2020000210	CERAMIC	CFJ455K5 (FL-65)
X1	6050001800	XTAL	CR-49
X2	6050001340	XTAL	CR- 1
L1 L2	6140000080 6180000690	COIL	LR-20 LAL 03NA R22M
L2 L3	6180000700	COIL	LAL 03NA R27M
L4	6180000860	COIL	LAL 03NA 5R6K
L5	6180000960	COIL	LAL 03NA 102K
L6 L7	6140002050 6150001770	COIL	LR-224 LS-198
L8	6110001620	COIL	LA-245
L9	6180000900	COIL	LAL 03NA 101K
L10	6140001460	COIL	LR-170
L11 L12	6140001260 6180000730	COIL	LR-151 LAL 03NA R47M
L13	6180000690	COIL	LAL 03NA R22M
L14	6150000990	COIL	LS-114
L16	6150002430	COIL	LS-254
L17 L18	6150002430 6140002060	COIL	LS-254 LR-225
L19	6140002060	COIL	LR-225
L20	6180000900	COIL	LAL 03NA 101K
L21 L22	6150001640 6150000711	COIL	LS-180B LS-452
L22 L23	8150000711	COIL	LS-452 LS-452
L24	6180000950	COIL	LAL 03NA 150K
L25	6150004050	COIL	LS-466
L26 L27	6150004050 6140000640	COIL	LS-466 LR-86
L28	6140001540	COIL	LR-169
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REF.	ORDER	I .	
NO.	NO.		DESCRIPTION
L29	6110001650	COIL	LA-248
L30	6180000700	COIL	LAL 03NA R27M
L31	6140002050	COIL	LR-224
L32	6180000880	COIL	LAL 03NA 100K LS-198
L33 L34	6150001770	COIL	LS-198 LS-254
L35	6150002430	COIL	LS-254
L36	6150000990	COIL	LS-114
L37	6150001471	COIL	LS-453
L38 L39	6180000940	COIL	LAL 03NA 270K LAL 03NA 220K
L40	6180000900	COIL	LAL 03NA 101K
L41	6180000900	COIL	LAL 03NA 101K
L42	6180002100	COIL	EL0606SKI-6R8K
L43 L44	6180002920 6180000900	COIL	LAL 02NA 5R6K LAL 03NA 101K
L45	6180002990	COIL	LAL 04NA 6R8K
L46	6180000850	COIL	LAL 03NA 4R7K
L47	6180000900	COIL	LAL 03NA 101K
L48 L49	6180000810	COIL	LAL 03NA 2R2M LAL 03NA 2R2M
L50	6180000830	COIL	LAL 03NA 3R3K
L51	6180000850	COIL	LAL 03NA 4R7K
L52	6180000900	COIL	LAL 03NA 101K
L53	6180000800 6180000780	COIL	LAL 03NA 1R8M LAL 03NA 1R2M
L54 L55	6180000790	COIL	LAL 03NA 1R5M
L56	6180000790	COIL	LAL 03NA 1R5M
L57	6180000900	COIL	LAL 03NA 101K
L58	6180000780	COIL	LAL 03NA 1R2M
L59 L60	6180000770 6180000760	COIL	LAL 03NA 1R0M LAL 03NA R82M
L61	6180000780	COIL	LAL 03NA 1R2M
L62	6180000900	COIL	LAL 03NA 101K
L63	6180000760	COIL	LAL 03NA R82M
L64 L65	6180000750 6180000750	COIL	LAL 03NA R68M LAL 03NA R68M
L66	6180000740	COIL	LAL 03NA R56M
L67	6180000900	COIL	LAL 03NA 101K
L68	6180000730	COIL	LAL 03NA R47M
L69 L70	6180000730 6180000730	COIL	LAL 03NA R47M LAL 03NA R47M
L71	6180000730	COIL	LAL 03NA R47M
L72	6180000900	COIL	LAL 03NA 101K
L73	6180000700	COIL	LAL 03NA R27M LAL 03NA R27M
L74 L75	6180000700 6180000710	COIL	LAL 03NA R33M
L76	6180000710	COIL	LAL 03NA R33M
L77	6150002291	COIL	LS-450
L78	6150002271	COIL	LS-451
L79 L80	6150002291 6170000140	COIL	LS:450 LW-15
L81	6180000690	COIL	LAL 03NA R22M
L82	6150001220	COIL	LS-134
L83	6150001210	COIL	LS-133A LAL 03NA 101K
L85 L86	6180000900 6180000900	COIL	LAL 03NA 101K
L87	6180000900	COIL	LAL 03NA 101K
L88	6180000880	COIL	LAL 03NA 100K
L91	6180000900	COIL	LAL 03NA 101K
L92 L93	6180000900 6910000670	COIL	LAL 03NA 101K BT01RN1-A61-001
L94	6180000900	COIL	LAL 03NA 101K
L95	6180000900	COIL	LAL 03NA 101K
L96	6910000670	COIL	BT01RN1-A61-001 LAL 03NA 101K
L97 L98	6180000900 6910000670	COIL	BT01RN1-A61-001
L99	6180000900	COIL	LAL 03NA 101K
L100	6180000900	COIL	LAL 03NA 101K
L101	6180000900	COIL	LAL 03NA 101K
L102 L103	6910000670 6180000900	COIL	BT01RN1-A61-001 LAL 03NA 101K
L105	6180000900	COIL	LAL 03NA 101K
L106	6150001210	COIL	LS-133A
L108	6180000920	COIL	LAL 03NA 221K LAL 03NA 101K
L115	6180000900	COIL	THE MAIN IN IN

REF. ORDER NO. DESCRIPTION	[MAIN L	INITI		
L118				DESCRIPTION
L118	NO.	NO.		
L148 6180000700 COIL		1		
L148			t	
L148		i	1	
L150		1	1	
151				
L152 8910000970 COIL BT01RN1-A61-001 L153 618000990 COIL LAL 03NA 101K BT01RN1-A61-001 TOIL LAL 03NA 101K BT01RN1-A61-0	L150	1		
L153			1	
154 6910000970 COIL BT01RN1-A61-001 COIL LAL 03NA 101K	1	1		
To10003330				
RESISTOR RESISTOR				
RESISTOR RESISTOR				
RESISTOR RESISTOR	R1	7010003330	RESISTOR	ELR20J 270 O
RESISTOR RESISTOR REQUITED RESISTOR RELIZOUS 2.2 Q RESISTOR RESISTOR RELIZOUS 2.6 Q RESISTOR RESISTOR RELIZOUS 5.6 Q RESISTOR RESISTOR REZOUT 2.4 J. 1.5 kQ RESISTOR RESISTOR REZOUT 2.4 J. 1.5 kQ RESISTOR RESISTOR RESISTOR REZOUT 2.4 J. 1.5 kQ RESISTOR RESISTOR RELIZOUS 6 Q RESISTOR RESISTOR RELIZOUS 6 Q RESISTOR RESISTOR RELIZOUS 6 Q RESISTOR RELIZOUS 6 Q RESISTOR RELIZOUS 10 kQ RESISTOR RESISTOR RELIZOUS 10 kQ RESISTOR RELIZOUS 10 kQ RESISTOR RESISTOR RELIZOUS 10 kQ RESIST		ł	i e	
R5				
RESISTOR RESISTOR		1	l .	**
RF		1		
RESISTOR ELR20J 56 Ω RESISTOR RESISTOR ELR20J 100 kΩ RESISTOR RESISTOR ELR20J 100 kΩ RESISTOR RESISTOR ELR20J 100 kΩ RESISTOR ELR20J 100 kΩ RESISTOR ELR20J 100 kΩ RESISTOR ELR20J 10 kΩ RESISTOR ELR20J 22 kΩ RESISTOR ELR20J 22 kΩ RESISTOR ELR20J 22 kΩ RESISTOR ELR20J 270 kΩ RESISTOR ELR20J 20 kΩ RESISTOR ELR20J 30 kΩ RESISTOR ELR20J 30 kΩ RESISTOR ELR20J 30 kΩ RESISTOR		\$		
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R17 7010004071 RESISTOR R20 T-24J 100 Ω R19 7010003510 RESISTOR ELR20J 6.8 kΩ R19 7010003400 RESISTOR ELR2DJ 2.2 kΩ R21 7010003460 RESISTOR ELR2DJ 2.2 kΩ R22 7010004091 RESISTOR ELR2DJ 3.3 kΩ R23 7010003330 RESISTOR R20 T-24J 4.7 kΩ R24 7010003330 RESISTOR ELR2DJ 270 Ω R25 7010003400 RESISTOR ELR2DJ 270 Ω R26 7010003400 RESISTOR ELR2DJ 270 Ω R27 7010003400 RESISTOR ELR2DJ 270 Ω R28 7010004231 RESISTOR ELR2DJ 3.3 kΩ R29 7010004231 RESISTOR R20 T-24J 2.2 kΩ R30 7010004231 RESISTOR R25X T-24J 2.2 kΩ R31 7010003320 RESISTOR R25X T-24J 470 kΩ R32 7010004531 RESISTOR R20 T-24J 470 kΩ R33 7010004531 RESISTOR ELR2DJ 220 Q R34 <td></td> <td>1</td> <td></td> <td></td>		1		
R18 7010003510 RESISTOR ELR20J 6.8 kΩ R19 7010003440 RESISTOR R25X T-24J 1 Ω R20 7010003400 RESISTOR ELR20J 2.2 kΩ R21 701000491 RESISTOR ELR20J 3.3 kΩ R22 701000330 RESISTOR R20 T-24J 150 Ω R24 7010003330 RESISTOR ELR20J 270 Ω R25 7010003330 RESISTOR ELR20J 270 Ω R26 7010003400 RESISTOR ELR20J 3.3 kΩ R28 7010004231 RESISTOR ELR20J 3.3 kΩ R29 7010004231 RESISTOR R20 T-24J 2.2 kΩ R30 7010004231 RESISTOR R20 T-24J 2.2 kΩ R31 7010003320 RESISTOR R25X T-24J 2.2 kΩ R33 7010004531 RESISTOR R25X T-24J 470 kΩ R34 7010003520 RESISTOR RELR20J 220 Ω R33 7010004071 RESISTOR ELR20J 220 Ω R38 7010003280 RESISTOR RELR20J 20 Ω R40				
R20 7010003440 RESISTOR ELR20J 3.2 kΩ R21 7010004091 RESISTOR ELR20J 3.3 kΩ R22 7010004071 RESISTOR R20 T-24J 150 Ω R23 7010003330 RESISTOR R20 T-24J 4.7 kΩ R24 7010003330 RESISTOR ELR20J 270 Ω R25 7010003400 RESISTOR ELR20J 18 Ω R27 7010003401 RESISTOR ELR20J 3.3 kΩ R28 7010004231 RESISTOR ELR20J 18 Ω R29 7010004231 RESISTOR R20 T-24J 2.2 kΩ R30 7010001191 RESISTOR R25X T-24J 2.2 kΩ R31 701000320 RESISTOR R25X T-24J 2.2 kΩ R32 701000451 RESISTOR R25X T-24J 2.2 kΩ R33 7010003520 RESISTOR R20 T-24J 470 kΩ R34 7010004071 RESISTOR ELR20J 22 kΩ R39 7010003280 RESISTOR R20 T-24J 100 kΩ R41 7010004071 RESISTOR R20 T-24J 100 kΩ				
R21 7010003460 RESISTOR ELR20J 3.3 kΩ R22 7010004091 RESISTOR R20 T-24J 150 Ω R23 7010004271 RESISTOR R20 T-24J 4.7 kΩ R24 7010003330 RESISTOR ELR20J 270 Ω R25 7010003460 RESISTOR ELR20J 18 Ω R27 7010004231 RESISTOR ELR20J 3.3 kΩ R28 7010004231 RESISTOR R20 T-24J 2.2 kΩ R29 7010004231 RESISTOR R20 T-24J 2.2 kΩ R30 701000320 RESISTOR R25X T-24J 2.2 kΩ R31 701000320 RESISTOR R25X T-24J 47 Q R33 701000351 RESISTOR R25X T-24J 47 Q R33 701000350 RESISTOR ELR20J 220 Ω R34 701000350 RESISTOR ELR20J 220 Ω R37 7010004071 RESISTOR ELR20J 100 Ω R38 7010004071 RESISTOR ELR20J 100 Ω R40 701000360 RESISTOR R20 T-24J 100 Ω R41	R19	7010000791	RESISTOR	R25X T-24J 1 Ω
R22 7010004091 RESISTOR R20 T-24J 150 Ω R23 7010004271 RESISTOR R20 T-24J 4.7 kΩ R24 7010003300 RESISTOR ELR20J 270 Ω R26 7010003400 RESISTOR ELR20J 18 Ω R27 7010004231 RESISTOR ELR20J 3.3 kΩ R28 7010004231 RESISTOR R20 T-24J 2.2 kΩ R30 7010001191 RESISTOR R20 T-24J 2.2 kΩ R31 701000320 RESISTOR R25X T-24J 2.2 kΩ R32 701000991 RESISTOR R25X T-24J 470 kΩ R33 7010004531 RESISTOR R25X T-24J 470 kΩ R34 7010003200 RESISTOR RELR20J 220 Ω R37 7010004071 RESISTOR ELR20J 220 Ω R38 7010003280 RESISTOR ELR20J 100 kΩ R40 7010004071 RESISTOR ELR20J 100 kΩ R41 7010004271 RESISTOR R20 T-24J 100 Ω R42 7010004271 RESISTOR R20 T-24J 10 kΩ R		ł		
R23 7010004271 RESISTOR R20 T-24J 4.7 kΩ R24 7010003300 RESISTOR ELR20J 270 Ω R25 7010003190 RESISTOR ELR20J 270 Ω R26 7010003460 RESISTOR ELR20J 3.3 kΩ R27 7010004231 RESISTOR REJEZOJ 2.2 kΩ R28 7010004231 RESISTOR R20 T-24J 2.2 kΩ R30 701000191 RESISTOR R20 T-24J 2.2 kΩ R31 701000320 RESISTOR R25X T-24J 2.2 kΩ R32 701000391 RESISTOR R25X T-24J 4.7 kΩ R33 701000350 RESISTOR R20 T-24J 470 kΩ R34 701000320 RESISTOR RELR20J 220 Q R37 701000320 RESISTOR ELR20J 200 Q R37 701000320 RESISTOR ELR20J 100 kΩ R38 701000320 RESISTOR ELR20J 100 kΩ R39 701000360 RESISTOR R20 T-24J 100 Ω R40 7010004211 RESISTOR R20 T-24J 10 kΩ R42		l .		***
R24 7010003330 RESISTOR ELR20J 270 Ω R25 7010003300 RESISTOR ELR20J 270 Ω R27 7010003400 RESISTOR ELR20J 33 kΩ R28 7010004231 RESISTOR R20 T-24J 2.2 kΩ R29 7010004231 RESISTOR R20 T-24J 2.2 kΩ R30 701000320 RESISTOR R25X T-24J 2.2 kΩ R31 701000321 RESISTOR R25X T-24J 47 Ω R33 701000350 RESISTOR R25X T-24J 47 Ω R33 701000350 RESISTOR R25X T-24J 47 Ω R34 701000350 RESISTOR R25X T-24J 47 Ω R33 701000350 RESISTOR ELR20J 220 Ω R37 7010004071 RESISTOR RELR20J 100 Ω R38 701000320 RESISTOR RELR20J 100 Ω R40 7010004271 RESISTOR RELR20J 100 Ω R41 7010004271 RESISTOR R20 T-24J 10 kΩ R43 7010004271 RESISTOR R20 T-24J 10 kΩ R46	i e			
R26 7010003190 RESISTOR ELR20J 18 Ω R27 7010003460 RESISTOR ELR20J 3.3 kΩ R28 7010004231 RESISTOR R20 T-24J 2.2 kΩ R30 7010001191 RESISTOR R20 T-24J 2.2 kΩ R31 701000320 RESISTOR R25X T-24J 4.2 kΩ R32 701000991 RESISTOR R25X T-24J 47 Q R33 7010004531 RESISTOR R20 T-24J 470 kΩ R34 701000320 RESISTOR RESISTOR R36 701000320 RESISTOR RELR20J 220 Ω R37 R01000360 RESISTOR RELR20J 20 Ω R38 7010003200 RESISTOR RELR20J 100 Ω R39 7010003200 RESISTOR RELR20J 100 kΩ R40 7010004071 RESISTOR RED T-24J 10 Ω R41 7010004271 RESISTOR R20 T-24J 100 Q R42 7010004211 RESISTOR R20 T-24J 100 kΩ R43 7010004211 RESISTOR REQ T-24J 10 kΩ		i		
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R31 7010003320 RESISTOR ELR20J 220 Ω R32 701000991 RESISTOR R25X T-24J 47 Ω R33 7010004531 RESISTOR R25X T-24J 470 kΩ R34 7010003580 RESISTOR ELR20J 22 kΩ R36 7010003600 RESISTOR ELR20J 220 Ω R37 7010003680 RESISTOR ELR20J 100 Ω R39 7010003280 RESISTOR ELR20J 100 Ω R40 7010004071 RESISTOR R20 T-24J 100 Ω R41 7010004271 RESISTOR R20 T-24J 100 Ω R42 7010004271 RESISTOR R20 T-24J 100 kΩ R43 7010004451 RESISTOR R20 T-24J 100 kΩ R44 7010004451 RESISTOR R20 T-24J 100 kΩ R48 7010004321 RESISTOR R20 T-24J 10 kΩ R48 7010003510 RESISTOR ELR20J 330 Ω R50 7010003580 RESISTOR ELR20J 330 Ω R51 701000421 RESISTOR R20 T-24J 10 kΩ R53 <td></td> <td></td> <td></td> <td></td>				
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R33 7010004531 RESISTOR R20 T-24J 470 kΩ R34 7010003580 RESISTOR ELR20J 22 kΩ R36 701000320 RESISTOR ELR20J 220 Ω R37 7010004071 RESISTOR ELR20J 100 kΩ R38 7010003280 RESISTOR ELR20J 100 Ω R40 7010004071 RESISTOR RELR20J 100 Ω R41 7010004271 RESISTOR R20 T-24J 100 Ω R42 7010004271 RESISTOR R20 T-24J 4.7 kΩ R43 7010004451 RESISTOR R20 T-24J 10 kΩ R45 7010004411 RESISTOR R20 T-24J 10 kΩ R46 7010004321 RESISTOR R20 T-24J 10 kΩ R48 7010003510 RESISTOR ELR20J 330 Ω R50 7010003510 RESISTOR ELR20J 330 Ω R51 7010004321 RESISTOR RELR20J 330 Ω R53 7010004321 RESISTOR R20 T-24J 10 kΩ R54 7010004321 RESISTOR R20 T-24J 10 kΩ R55				
R34 7010003580 RESISTOR ELR20J 22 kΩ R36 7010003320 RESISTOR ELR20J 220 Ω R37 7010004071 RESISTOR R20 T-24J 100 Ω R38 7010003660 RESISTOR ELR20J 100 kΩ R40 7010004071 RESISTOR RELR20J 100 Ω R41 7010004271 RESISTOR R20 T-24J 10 Ω R42 7010004451 RESISTOR R20 T-24J 100 kΩ R43 7010004451 RESISTOR R20 T-24J 100 kΩ R45 7010004451 RESISTOR R20 T-24J 10 kΩ R46 7010004321 RESISTOR ELR20J 100 kΩ R47 7010004321 RESISTOR ELR20J 330 Ω R50 7010003580 RESISTOR ELR20J 22 kΩ R51 7010004191 RESISTOR R20 T-24J 1 kΩ R52 701000421 RESISTOR R20 T-24J 10 kΩ R53 701000421 RESISTOR R20 T-24J 10 kΩ R54 7010004231 RESISTOR R20 T-24J 2.2 kΩ R55				
R37 7010004071 RESISTOR R20 T-24J 100 Ω R38 7010003660 RESISTOR ELR20J 100 kΩ R39 7010003280 RESISTOR ELR20J 100 Ω R40 7010004071 RESISTOR R20 T-24J 100 Ω R41 7010003951 RESISTOR R20 T-24J 10 Ω R42 7010004271 RESISTOR R20 T-24J 10 kΩ R43 7010004411 RESISTOR R20 T-24J 10 kΩ R45 7010004411 RESISTOR R20 T-24J 10 kΩ R46 701000360 RESISTOR ELR20J 100 kΩ R47 7010004321 RESISTOR ELR20J 100 kΩ R48 7010003510 RESISTOR ELR20J 20 8. kΩ R50 7010003580 RESISTOR ELR20J 330 Ω R51 7010004191 RESISTOR R20 T-24J 1 kΩ R52 701000421 RESISTOR R20 T-24J 10 kΩ R53 701000421 RESISTOR R20 T-24J 10 kΩ R54 7010004231 RESISTOR R20 T-24J 2.2 kΩ R55 </td <td></td> <td></td> <td></td> <td></td>				
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R39 7010003280 RESISTOR ELR20J 100 Ω R40 7010004071 RESISTOR R20 T-24J 100 Ω R41 7010004271 RESISTOR R20 T-24J 100 Ω R42 7010004271 RESISTOR R20 T-24J 4.7 kΩ R43 7010004451 RESISTOR R20 T-24J 100 kΩ R45 7010004411 RESISTOR R20 T-24J 10 kΩ R46 7010003680 RESISTOR ELR20J 100 kΩ R47 7010004321 RESISTOR RLR20J 6.8 kΩ R49 7010003510 RESISTOR ELR20J 330 Ω R50 7010003580 RESISTOR ELR20J 330 Ω R51 7010004191 RESISTOR R20 T-24J 10 kΩ R53 7010004231 RESISTOR R20 T-24J 10 kΩ R54 7010004231 RESISTOR R20 T-24J 10 kΩ R55 7010004231 RESISTOR R20 T-24J 10 kΩ R56 7010004231 RESISTOR R20 T-24J 2.2 kΩ R57 7010004231 RESISTOR R20 T-24J 1.5 kΩ <t< td=""><td></td><td></td><td></td><td></td></t<>				
R40 7010004071 RESISTOR R20 T-24J 100 Ω R41 7010003951 RESISTOR R20 T-24J 10 Ω R42 7010004271 RESISTOR R20 T-24J 47 kΩ R43 7010004451 RESISTOR R20 T-24J 47 kΩ R45 7010004411 RESISTOR R20 T-24J 47 kΩ R46 7010003660 RESISTOR ELR20J 100 kΩ R47 7010004321 RESISTOR RLR20J 100 kΩ R48 7010003510 RESISTOR ELR20J 330 Ω R50 7010003580 RESISTOR ELR20J 22 kΩ R51 7010004191 RESISTOR R20 T-24J 10 kΩ R53 7010004231 RESISTOR R20 T-24J 10 kΩ R54 7010004231 RESISTOR R20 T-24J 10 kΩ R55 7010004231 RESISTOR R20 T-24J 2.2 kΩ R56 7010004231 RESISTOR R20 T-24J 2.2 kΩ R57 7010004211 RESISTOR R20 T-24J 1.5 kΩ R59 7010004231 RESISTOR R20 T-24J 1.0 Ω <		t e		***
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R50 7010003580 RESISTOR ELR20J 22 kΩ R51 7010004191 RESISTOR R20 T-24J 1 kΩ R52 7010001281 RESISTOR R25X T-24J 10 kΩ R53 7010004321 RESISTOR R20 T-24J 10 kΩ R54 7010004231 RESISTOR R20 T-24J 2.2 kΩ R55 7010004231 RESISTOR R20 T-24J 2.2 kΩ R57 7010004211 RESISTOR ELR20J 3.3 kΩ R58 7010004211 RESISTOR R20 T-24J 1.5 kΩ R59 7010004231 RESISTOR R20 T-24J 2.2 kΩ R60 7010004231 RESISTOR R20 T-24J 2.2 kΩ R61 7010004231 RESISTOR R20 T-24J 2.2 kΩ R62 7010003440 RESISTOR R20 T-24J 2.2 kΩ R63 7010001031 RESISTOR R25X T-24J 100 Ω				
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H84 7010003440 HESISTOR ELR20J 2.2 kΩ				1
	H64	/010003440	HESISTOR	ELH20J 2.2 kΩ

[MAIN UNIT]

REF.	ORDER		DESCRIPTION
NO.	NO.	<u> </u>	
R65	7010000330	RESISTOR	ELR25J 470 Ω
R66 R67	7010004111 7010003991	RESISTOR RESISTOR	R20 T-24J 220 Ω R20 T-24J 22 Ω
R68	7010003320	RESISTOR	ELR20J 220 Ω
R69	7010003911	RESISTOR	R20 T-24J 4.7 Ω
R70 R71	7010003440 7010003400	RESISTOR RESISTOR	ELR20J 2.2 kΩ ELR20J 1 kΩ
R72	7010003400	RESISTOR	ELR20J 1 kΩ
R73	7010003360	RESISTOR	ELR20J 470 Ω
R74 R75	7010003360 7010003530	RESISTOR RESISTOR	ELR20J 470 Ω ELR20J 10 kΩ
R76	7010003330	RESISTOR	R20 T-24J 47 Ω
R77	7010003270	RESISTOR	ELR20J 82 Ω
R78 R79	7010004571 7010003991	RESISTOR	R20 T-24J 1 M Ω R20 T-24J 22 Ω
R80	7010004111	RESISTOR	R20 T-24J 220 Ω
R81	7010000991	RESISTOR	R25X T-24J 47 Ω
R82 R83	7010003540 7010004231	RESISTOR RESISTOR	ELR20J 12 kΩ R20 T-24J 2.2 kΩ
R84	7010004031	RESISTOR	R20 T-24J 47 Ω
R85	7310003200	TRIMMER	EVN-2ACA00 B14 (103)
R86 R87	7010004071 7010004951	RESISTOR	R20 T-24J 100 Ω R20 T-24J 1.5M Ω
R88	7010004331	RESISTOR	ELR20J 470 Ω
R89	7510000300	THERMISTOR	ERT-D2ZGL 601S
R90 R91	7010004321 7010004031	RESISTOR RESISTOR	R20 T-24J 10 kΩ R20 T-24J 47 Ω
R92	7010004131	RESISTOR	R20 T-24J 330 Ω
R93	7010001111	RESISTOR	R25X T-24J 470 Ω
R94 R95	7010000330 7010004071	RESISTOR RESISTOR	ELR25J 470 Ω R20 T-24J 100 Ω
R96	7010004071	RESISTOR	R20 T-24J 100 Ω
R97	7010004071	RESISTOR	R20 T-24J 100 Ω
R98 R99	7010004071 7010004071	RESISTOR	R20 T-24J 100 Ω R20 T-24J 100 Ω
R100	7010004071	RESISTOR	R20 T-24J 100 Ω
R101	7410000180 7010003350	ARRAY RESISTOR	RMX- 8 103K ELR20J 390 Ω
R102 R103	7010003350	RESISTOR	ELR20J 56 Ω
R104	7010003620	RESISTOR	ELR20J 47 kΩ
R105 R106	7010000871 7010003480	RESISTOR RESISTOR	R25X T-24J 4.7 Ω ELR20J 4.7 kΩ
R100	7010003400	RESISTOR	ELR20J 470 kΩ
R108	7010004371	RESISTOR	R20 T-24J 22 kΩ
R109 R110	7010003630 7310000760	RESISTOR TRIMMER	ELR20J 56 kΩ RH0651CJ4J01A (223)
R111	7010003530	RESISTOR	ELR20J 10 kΩ
R112	7010001031 7010005320	RESISTOR RESISTOR	R25X T-24J 100 Ω ELR20J 4.7M Ω
R113 R114	7010003320	RESISTOR	R20 T-24J 1 M Ω
R115	7010003750	RESISTOR	ELR20J 560 kΩ
R116 R117	7310000730 7010003340	TRIMMER RESISTOR	RH0651CN3J01A (332) ELR20J 330 Ω
R118	7010003340	RESISTOR	ELR20J 3.3M Ω
R119	7010003530	RESISTOR	ELR20J 10 kΩ
R120 R121	7010003280 7010003520	RESISTOR RESISTOR	ELR20J 100 Ω ELR20J 8.2 kΩ
R121	7010003320	RESISTOR	R20 T-24J 1 kΩ
R123	7010003400	RESISTOR	ELR20J 1 kΩ
R124 R125	7010003480 7010003550	RESISTOR RESISTOR	ELR20J 4.7 kΩ ELR20J 15 kΩ
R125	7010003530	RESISTOR	ELR20J 6.8 kΩ
R127	7010003640	RESISTOR	ELR20J 68 kΩ
R128 R129	7010003660 7010003400	RESISTOR	ELR20J 100 kΩ ELR20J 1 kΩ
R130	7010004151	RESISTOR	R20 T-24J 470 Ω
R131	7010003700	RESISTOR	ELR20J 220 kΩ
R132 R133	7010003550 7010003400	RESISTOR RESISTOR	ELR20J 15 kΩ ELR20J 1 kΩ
R134	7010003460	RESISTOR	ELR20J 3.3 kΩ
R135	7010003240	RESISTOR	ELR20J 47 Ω R20 T-24J 47 Ω
R136 R137	7010004031 7010004071	RESISTOR	R20 T-24J 47 Ω
R138	7310003210	TRIMMER	EVN-2ACA00 B54 (503)
R139 R141	7010003640 7010004071	RESISTOR RESISTOR	ELR20J 68 kΩ R20 T-24J 100 Ω
"""	7010004071	, ieosoron	I E70 IVU 30
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REF.	ORDER		DESCRIPTION
NO.	NO.		
R142	7010003340	RESISTOR	ELR20J 330 Ω
R143 R144	7010004151 7010004321	RESISTOR RESISTOR	R20 T-24J 470 Ω R20 T-24J 10 kΩ
R145	7010004321	RESISTOR	R20 T-24J 100 Ω
R146	7010004231	RESISTOR	R20 T-24J 2.2 kΩ
R147	7010003440	RESISTOR	ELR20J 2.2 kΩ
R148 R149	7010003530 7010003040	RESISTOR RESISTOR	ELR20J 10 kΩ ELR20J 1 Ω
R150	7010003040	RESISTOR	ELR20J 3.3 Ω
R151	7010003400	RESISTOR	ELR20J 1 kΩ
R152	7010003530	RESISTOR	ELR20J 10 kΩ
R153 R154	7010004321 7010003530	RESISTOR RESISTOR	R20 T-24J 10 kΩ ELR20J 10 kΩ
R155	7010004321	RESISTOR	R20 T-24J 10 kΩ
R156	7010004191	RESISTOR	R20 T-24J 1 kΩ
R157 R158	7010003480 7010004191	RESISTOR RESISTOR	ELR20J 4.7 kΩ R20 T-24J 1 kΩ
R160	7010004101	RESISTOR	R25X T-24J 6.8 kΩ
R165	7010004071	RESISTOR	R20 T-24J 100 Ω
R166	7010003660	RESISTOR RESISTOR	ELR20J 100 kΩ R20 T-24J 100 kΩ
R167 R168	7010004451 7010003660	RESISTOR	ELR20J 100 kΩ
R169	7010003440	RESISTOR	ELR20J 2.2 kΩ
R170	7010004231	RESISTOR	R20 T-24J 2.2 kΩ
R171 R172	7010003440 7010004231	RESISTOR RESISTOR	ELR20J 2.2 kΩ R20 T-24J 2.2 kΩ
R173	7010004231	RESISTOR	ELR20J 4.7 kΩ
R174	7010003470	RESISTOR	ELR20J 3.9 kΩ
R175	7010003420	RESISTOR	ELR20J 1.5 kΩ R20 T-24J 100 kΩ
R176 R177	7010004451 7310003200	RESISTOR TRIMMER	EVN-2ACA00 B14 (103)
R178	7010003660	RESISTOR	ELR20J 100 kΩ
R179	7310003200	TRIMMER	EVN-2ACA00 B14 (103)
R180 R181	7010004491 7010004231	RESISTOR	R20 T-24J 220 kΩ R20 T-24J 2.2 kΩ
R182	7010003480	RESISTOR	ELR20J 4.7 kΩ
R183	7010003530	RESISTOR	ELR20J 10 kΩ
R184	7010004231 7010003710	RESISTOR	R20 T-24J 2.2 kΩ ELR20J 270 kΩ
R185 R186	7310003710	TRIMMER	EVN-2ACA00 B15 (104)
R187	7010003620	RESISTOR	ELR20J 47 kΩ
R188	7010003620	RESISTOR	ELR20J 47 kΩ ELR20J 10 kΩ
R189 R191	7010003530 7010003620	RESISTOR	ELR20J 10 kΩ ELR20J 47 kΩ
R192	7010003620	RESISTOR	ELR20J 47 kΩ
R193	7010003600	RESISTOR	ELR20J 33 kΩ
R194 R195	7310003200 7010004391	TRIMMER RESISTOR	EVN-2ACA00 B14 (103) R20 T-24J 33 kΩ
R196	7010003780	RESISTOR	ELR20J 1 M Ω
R197	7010003360	RESISTOR	ELR20J 470 Ω
R198 R199	7010004571 7010005220	RESISTOR	R20 T-24J 1 M Ω ELR20J 10 M Ω
R200	7010003220	RESISTOR	ELR20J 1 M Ω
R201	7010004271	RESISTOR	R20 T-24J 4.7 kΩ
R202	7010003360	RESISTOR RESISTOR	ELR20J 470 Ω R20 T-24J 180 kΩ
R203 R204	7010004481 7010003670	RESISTOR	R20 1-24J 180 KΩ ELR20J 120 kΩ
R205	7010003360	RESISTOR	ELR20J 470 Ω
R206	7010003680	RESISTOR	ELR20J 150 kΩ
R207 R208	7010003510 7310000740	RESISTOR TRIMMER	ELR20J 6.8 kΩ RH0651CS3J2KA (472)
R209	7010003580	RESISTOR	ELR20J 22 kΩ
R210	7310000780	TRIMMER	RH0651CS4J25A (473)
R211 R212	7010001491 7010003480	RESISTOR RESISTOR	R25X T-24J 470 kΩ ELR20J 4.7 kΩ
R212	7010003480	RESISTOR	ELR20J 2.2M Ω
R214	7010003360	RESISTOR	ELR20J 470 Ω
R215	7010003300	RESISTOR	ELR20J 150 Ω
R216 R217	7010003530 7010003660	RESISTOR	ELR20J 10 kΩ ELR20J 100 kΩ
R220	7010003740	RESISTOR	ELR20J 470 kΩ
R221	7010003740	RESISTOR	ELR20J 470 kΩ
R222 R223	7010003530 7010001031	RESISTOR	ELR20J 10 kΩ R25X T-24J 100 Ω
R224	7010001031	RESISTOR	ELR20J 10 kΩ
R225	7010000090	RESISTOR	ELR25J 4.7 Ω
			S =Surface mount

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REF. NO.	ORDER NO.		DESCRIPTION		REF. NO.	ORDER NO.		DESCRIPTION
Done	7010000370	RESISTOR	ELR25J 1 kΩ		R316	7010003470	RESISTOR	ELR20J 3.9 kΩ
R226 R227	7010000370	RESISTOR	ELR25J 4.7 Ω		R317	7010000010	RESISTOR	ELR25J 1 Ω
R228	7010000370	RESISTOR	ELR25J 1 kΩ	- 1	R318	7010004301	RESISTOR	R20 T-24J 6.8 kΩ
R229	7010000090	RESISTOR	ELR25J 4.7 Ω	- 1	R319	7010001191	RESISTOR	R25X T-24J 2.2 kΩ
R230	7010003400	RESISTOR	ELR20J 1 kΩ		R320	7010003530	RESISTOR	ELR20J 10 kΩ
R232	7010004111	RESISTOR	R20 T-24J 220 Ω	ı	R321	7310003210	TRIMMER	EVN-2ACA00 B54 (503)
R233	7010003480	RESISTOR	ELR20J 4.7 kΩ	Į	R322	7010003480	RESISTOR	ELR20J 4.7 kΩ
R234	7010003480	RESISTOR	ELR20J 4.7 kΩ	- 1	R323	7010001111	RESISTOR	R25X T-24J 470 Ω
R235	7010003490	RESISTOR	ELR20J 5.6 kΩ	- 1	R324	7010004301	RESISTOR	R20 T-24J 6.8 kΩ
R236	7010004311	RESISTOR	R20 T-24J 8.2 kΩ	- 1	R325	7010001071	RESISTOR	R25X T-24J 220 Ω
R237	7010003380	RESISTOR	ELR20J 680 Ω		R326	7010001261	RESISTOR	R25X T-24J 6.8 kΩ
R238	7310000860	TRIMMER	RH1051D13J0JA (1KB)	- 1	R327	7010004151	RESISTOR	R20 T-24J 470 Ω
R239	7010003540	RESISTOR	ELR20J 12 kΩ	- 1	R328	7010003280	RESISTOR	ELR20J 100 Ω
R240	7010003440	RESISTOR	ELR20J 2.2 kΩ	- 1	R329	7010004321	RESISTOR	R20 T-24J 10 kΩ
R241	7310003200	TRIMMER	EVN-2ACA00 B14 (103)	- 1	R330	7010003530	RESISTOR	ELR20J 10 kΩ R20 T-24J 100 Ω
R242	7010003530 7010003280	RESISTOR	ELR20J 10 kΩ ELR20J 100 Ω	- 1	R331 R332	7010004071 7010004271	RESISTOR	R20 T-24J 4.7 kQ
R243	7210002400	VARIABLE	RV-287 (RK09K1110) 1MB	1	R333	7010004271	RESISTOR	R20 T-24 5.6 kΩ
R244	1210002400	VANIABLE	IDELAYI	- 1	R334	7010004281	RESISTOR	R20 T-24J 47 kΩ
R245	7010004321	RESISTOR	R20 T-24J 10 kΩ	- 1	R335	7010004411	RESISTOR	R20 T-24J 47 kΩ
R245	7010004321	RESISTOR	ELR20J 1 kΩ	I	R336	7010004191	RESISTOR	R20 T-24J 1 kΩ
R247	7010003400	RESISTOR	R25XJ 6.8 kΩ	Ī	R337	7010004271	RESISTOR	R20 T-24J 4.7 kΩ
R248	7010004571	RESISTOR	R20 T-24J 1 MΩ		R415	7010003180	RESISTOR	ELR20J 15 Ω
R249	7010001031	RESISTOR	R25X T-24J 100 Ω	ı	R416	7010004321	RESISTOR	R20 T-24J 10 kΩ
R256	7010004271	RESISTOR	R20 T-24J 4.7 kΩ	-	R417	7510000071	THERMISTOR	ERT-D2ZHL 503S
R257	7010004271	RESISTOR	R20 T-24J 4.7 kΩ		R418	7010003360	RESISTOR	ELR20J 470 Ω
R258	7010004411	RESISTOR	R20 T-24J 47 kQ	l	R419	7510000590	THERMISTOR	ERT-D2ZGL 101S
R259	7010003250	RESISTOR	ELR20J 56 Ω	- 1	R420	7010003480	RESISTOR	ELR20J 4.7 kΩ
R260	7010003400	RESISTOR	ELR20J 1 kΩ		R421	7010004111	RESISTOR	R20 T-24J 220 Ω
R263	7010004231	RESISTOR	R20 T-24J 2.2 kΩ	- 1	R422	7010003670	RESISTOR	ELR20J 120 kΩ
R264	7010003580	RESISTOR	ELR20J 22 kΩ	ı	R423	7010003530	RESISTOR	ELR20J 10 kΩ
R265	7010003530	RESISTOR	ELR20J 10 kQ		R424	7010003530	RESISTOR	ELR20J 10 kΩ
R266	7010004191	RESISTOR	R20 T-24J 1 kΩ	- 1	R426	7010004051	RESISTOR	R20 T-24J 68 Ω
R267	7010004271	RESISTOR	R20 T-24J 4.7 kΩ		R427	7010004191	RESISTOR	R20 T-24J 1 kΩ
R268	7010003360	RESISTOR	ELR20J 470 Q	- 1	R428 R429	7010003620 7010003620	RESISTOR	ELR20J 47 kΩ ELR20J 47 kΩ
R269	7010003120 7010004321	RESISTOR	ELR20J 4.7 Ω R20 T-24J 10 kΩ		R430	7010003400	RESISTOR	ELR20J 1 kΩ
R270 R271	7010004321	RESISTOR	R20 T-24J 10 kΩ		R431	7010003440	RESISTOR	ELR20J 2.2 kΩ
R272	7010004321	RESISTOR	R20 T-24J 680 Ω	- 1	R432	7010003610	RESISTOR	ELR20J 39 kΩ
R274	7010004321	RESISTOR	R20 T-24J 10 kΩ		R433	7010003560	RESISTOR	ELR20J 18 kΩ
R275	7010003530	RESISTOR	ELR20J 10 kΩ	ı	R434	7010000791	RESISTOR	R25X T-24J 1 Ω
R276	7010001111	RESISTOR	R25X T-24J 470 Ω	i				
R277	7010004371	RESISTOR	R20 T-24J 22 kΩ					
R278	7010004071	RESISTOR	R20 T-24J 100 Ω	- 1	C1	4010000520	CERAMIC	DD108 B 472K 50V
R279	7010001401	RESISTOR	R25X T-24J 100 kΩ		C2	4040000260		R UZE 08X 104M
R280	7010004451	RESISTOR	R20 T-24J 100 kΩ	ı	C4	4010000270	CERAMIC	DD104 SL 510J 50V
R281	7010004371	RESISTOR	R20 T-24J 22 kΩ		C5	4010000340	CERAMIC	DD105 SL 121J 50V
R282	7010004321	RESISTOR	R20 T-24J 10 kΩ		C6	4010000160	CERAMIC	DD104 SL 180J 50V
R283	7010003420	RESISTOR	ELR20J 1.5 kΩ	1	C7	4010000280	CERAMIC	DD104 SL 560J 50V
R284	7010003530	RESISTOR	ELR20J 10 kΩ	I.	C8	4040000110	1	R UAT 04X 222K
R285	7010003820	RESISTOR	ELR20J 47 kΩ	ľ	C9	4010004840	CERAMIC	DD305 F 104Z 12V R UAT 05X 332K
R286	7010001150	RESISTOR	R25XJ 1 kΩ	İ	C10 C11	4040000130	CERAMIC	TUAT 05X 332K DD104 SL 050C 50V
R287	7010003530 7010004191	RESISTOR	ELR20J 10 kΩ R20 T-24J 1 kΩ	Į	C11	4010000070	CYLINDER	UP050 SL 150J
R288 R289	7010004191	RESISTOR	R20 T-24J 100 Ω		C12	4010000340	CERAMIC	DD105 SL 121J 50V
R290	7010004071	RESISTOR	ELR20J 100 Ω	1	C14	4010000520	CERAMIC	DD108 B 472K 50V
R291	7010003280	RESISTOR	ELR20J 2.2 kΩ		C15	4010000520	CERAMIC	DD108 B 472K 50V
R292	7010003490	RESISTOR	ELR20J 5.6 kΩ		C18	4010000020	CERAMIC	DD104 SL 010C 50V
R293	7010001111	RESISTOR	R25X T-24J 470 Ω		C17	4010000120	CERAMIC	DD104 SL 100D 50V
R295	7010004321	RESISTOR	R20 T-24J 10 kΩ		C18	4010000100	CERAMIC	DD104 SL 080D 50V
R296	7010001281	RESISTOR	R25X T-24J 10 kΩ	I	C19	4010000020	CERAMIC	DD104 SL 010C 50V
R297	7010003660	RESISTOR	ELR20J 100 kΩ	ı	C20	4010000500	CERAMIC	DD104 B 102K 50V
R298	7010003530	RESISTOR	ELR20J 10 kΩ		C21	4010000330	CERAMIC	DD105 SL 101J 50V
R299	7010001281	RESISTOR	R25X T-24J 10 kΩ	I	C23	4010000240	CERAMIC	DD104 SL 390J 50V
R300	7010003480	RESISTOR	ELR20J 4.7 kΩ		C25	4010000500	CERAMIC	DD104 B 102K 50V
R302	7010003420	RESISTOR	ELR20J 1.5 kΩ		C26	4010000100	CERAMIC	DD104 SL 080D 50V
R304	7310003280	TRIMMER	EVN-2ACA00 B25 (204)		C27	4040000150		R UAT 05X 472K
R306	7010004271	RESISTOR	R20 T-24J 4.7 kΩ		C28	4010000520	CERAMIC	DD108 B 472K 50V
R307	7310003200	TRIMMER	EVN-2ACA00 B14 (103)		C29	4010000500	CERAMIC	DD104 B 102K 50V
R308	7010004521	RESISTOR	R20 T-24J 390 kΩ		C30	4010000520	CERAMIC	DD108 B 472K 50V
R309	7010003600	RESISTOR	ELR20J 33 kΩ		C31	4010000100	CERAMIC	DD104 SL 080D 50V
R311	7010003480	RESISTOR	ELR20J 4.7 kΩ		C32 C33	4010000100	CERAMIC	DD104 SL 080D 50V
R312	7010004031 7010003360	RESISTOR	R20 T-24J 47 Ω ELR20J 470 Ω		C35	4010000300	CERAMIC	DD104 SL 680J 50V DD108 B 472K 50V
R313 R314	7010003360	RESISTOR	ELR20J 1.5 kΩ		C36	4040000150	Į.	R UAT 05X 472K
R314 R315	7510003420	THERMISTOR	ERT-D2ZGL 202S		C37	4010000340	CERAMIC	DD105 SL 121J 50V
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REF.	ORDER	DESCRIPTION
NO.	NO.	
C38	4020000030	CYLINDER UP125 SL 2R2K
C39	4010000070	CERAMIC DD104 SL 050C 50V
C40	4010004840	CERAMIC DD305 F 104Z 12V
C42	4040000260	BARRIERLAYER UZE 08X 104M CERAMIC DD108 B 472K 50V
C43 C44	4010000520 4010000520	CERAMIC DD108 B 472K 50V
C46	4010000520	CERAMIC DD108 B 472K 50V
C47	4020000910	CYLINDER UP125 SL 270J
C49	4010000520	CERAMIC DD108 B 472K 50V
C50 C51	4010000520 4510003790	CERAMIC DD108 B 472K 50V
C52	4010000520	CERAMIC DD108 B 472K 50V
C53	4010000520	CERAMIC DD108 B 472K 50V
C56	4010000520	CERAMIC DD108 B-472K 50V
C58 C59	4010000340 4010000180	CERAMIC DD105 SL 121J 50V
C60	4510003860	ELECTROLITIC 50 MV 3R3 SW
C61	4510003910	ELECTROLITIC 16 MV 47 HW
C62	4040000260	BARRIERLAYER UZE 08X 104M
C64	4010000520 4010000520	CERAMIC
C65 C66	4010000320	CERAMIC DD305 F 104Z 12V
C67	4040000150	BARRIERLAYER UAT 05X 472K
C68	4040000150	BARRIERLAYER UAT 05X 472K
C69	4010004840	CERAMIC DD305 F 104Z 12V
C70 C71	4040000250	BARRIERLAYER UAT 08X 473M BARRIERLAYER UAT 08X 473M
C72	4010000330	CERAMIC DD105 SL 101J 50V
C73	4040000250	BARRIERLAYER UAT 08X 473M
C74	4040000250	BARRIERLAYER UAT 08X 473M
C75 C78	4040000250	BARRIERLAYER UAT 08X 473M CERAMIC DD106 SL 151J 50V
C79	4010000120	CERAMIC DD104 SL 100D 50V
C80	4010000320	CERAMIC DD104 SL 820J 50V
C81	4040000260	BARRIERLAYER UZE 08X 104M
C82 C83	4010000120	CERAMIC DD104 SL 100D 50V CERAMIC DD305 F 104Z 12V
C84	4010004840	CERAMIC DD305 F 104Z 12V
C85	4010000500	CERAMIC DD104 B 102K 50V
C86	4040000260	BARRIERLAYER UZE 08X 104M
C87	4010000100	CERAMIC
C89 C90	4010000100	CERAMIC DD104 SL 080D 50V
C91	4040000260	BARRIERLAYER UZE 08X 104M
C92	4010000520	CERAMIC DD108 B 472K 50V
C93 C94	4010000080	CERAMIC DD104 SL 060D 50V
C95	4010000520 4510003830	ELECTROLITIC 50 MV R47 SW
C96	4010000520	CERAMIC DD108 B 472K 50V
C97	4510003860	ELECTROLITIC 50 MV 3R3 SW
C99	4010000520	CERAMIC DD108 B 472K 50V ELECTROLITIC 16 MV 47 HW
C100 C101	4510003910 4040000260	BARRIERLAYER UZE 08X 104M
C102	4010000500	CERAMIC DD104 B 102K 50V
C109	4510003790	ELECTROLITIC 16 MV 10 SW
C110 C111	4310000400 4510005240	MYLAR 50 F2D 223J ELECTROLITIC 16 MV 22 SWB
C111	4510003240	ELECTROLITIC 16 MV 22 SWB
C113	4510003830	ELECTROLITIC 50 MV R47 SW
C114	4040000150	BARRIERLAYER UAT 05X 472K
C115	4510003910	ELECTROLITIC 16 MV 47 HW CERAMIC DD105 SL 101J 50V
C116 C117	4010000330 4010000350	CERAMIC
C118	4040000150	BARRIERLAYER UAT 05X 472K
C119	4010000520	CERAMIC DD108 B 472K 50V
C120	4010004840	CERAMIC DD305 F 104Z 12V
C121 C122	4010000520 4040000390	CERAMIC DD108 B 472K 50V BARRIERLAYER UAT 06V 103K
C122	4010000380	CERAMIC DD107 SL 221J 50V
C124	4510003840	ELECTROLITIC 50 MV 1 SW
C125	4040000260	BARRIERLAYER UZE 08X 104M
C126 C127	4010004840	CERAMIC DD305 F 104Z 12V CERAMIC DD305 F 104Z 12V
C127	4010004840	CERAMIC DD305 F 1042 12V CERAMIC DD105 SL 121J 50V
C130	4010004840	CERAMIC DD305 F 104Z 12V
C132	4010000520	CERAMIC DD108 B 472K 50V

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REF. NO.	ORDER NO.	DESCRIPTION			
C133	4010004840	CERAMIC DD305 F 104Z 12V			
C135	4040000260	BARRIERLAYER UZE 08X 104M			
C136	4310000400	MYLAR 50 F2D 223J			
C137 C138	4010000160	CERAMIC DD104 SL 180J 50V CERAMIC DD108 B 472K 50V			
C139	4040000250	BARRIERLAYER UAT 08X 473M			
C140	4010000520	CERAMIC DD108 B 472K 50V			
C141 C142	4010000520	CERAMIC DD108 B 472K 50V CERAMIC DD104 SL 060D 50V			
C142	4040000000	BARRIERLAYER UAT 04X 152K			
C144	4040000130	BARRIERLAYER UAT 05X 332K			
C145	4040000460	BARRIERLAYER RAU 08SA 821K			
C146 C147	4040000180 4040000130	BARRIERLAYER UAT 05X 822K BARRIERLAYER UAT 05X 332K			
C148	4040000070	BARRIERLAYER UAT 04X 102K			
C149	4020000630	CYLINDER UP050 B 101K			
C150 C151	4040000070 4040000250	BARRIERLAYER UAT 04X 102K BARRIERLAYER UAT 08X 473M			
C152	4040000260	BARRIERLAYER UZE 08X 104M			
C153	4040000260	BARRIERLAYER UZE 08X 104M			
C154 C155	4010000520 4040000100	CERAMIC DD108 B 472K 50V BARRIERLAYER UAT 04X 182K			
C156	4040000100	BARRIERLAYER UAT 04X 182K			
C157	4010000410	CERAMIC DD107 SL 331J 50V			
C158	4040000260 4040000080	BARRIERLAYER UZE 08X 104M BARRIERLAYER UAT 04X 122K			
C159 C160	4010000330	CERAMIC DD105 SL 101J 50V			
C161	4040000080	BARRIERLAYER UAT 04X 122K			
C162	4040000170	BARRIERLAYER UAT 05X 682K			
C163 C164	4040000180 4040000080	BARRIERLAYER UAT 05X 822K BARRIERLAYER UAT 04X 122K			
C165	4040000250	BARRIERLAYER UAT 08X 473M			
C166	4040000260	BARRIERLAYER UZE 08X 104M			
C167 C168	4010000440 4010000330	CERAMIC DD109 SL 511J 50V CERAMIC DD105 SL 101J 50V			
C169	4010000430	CERAMIC DD109 SL 471J 50V			
C170	4040000080	BARRIERLAYER UAT 04X 122K			
C171 C172	4040000160 4040000440	BARRIERLAYER UAT 05X 562K BARRIERLAYER RAU 06SA 561K			
C173	4040000250	BARRIERLAYER UAT 08X 473M			
C174	4040000260	BARRIERLAYER UZE 08X 104M			
C175 C178	4010000410 4010000270	CERAMIC DD107 SL 331J 50V CERAMIC DD104 SL 510J 50V			
C177	4010000410	CERAMIC DD107 SL 331J 50V			
C178	4010000410	CERAMIC DD107 SL 331J 50V			
C179 C180	4040000120 4010000410	BARRIERLAYER UAT 05X 272K CERAMIC DD107 SL 331J 50V			
C181	4040000250	BARRIERLAYER UAT 08X 473M			
C182	4040000260	BARRIERLAYER UZE 08X 104M			
C183 C184	4010000410 4010000260	CERAMIC DD107 SL 331J 50V CERAMIC DD104 SL 470J 50V			
C185	4010000280	CERAMIC DD107 SL 221J 50V			
C186	4010000380	CERAMIC DD107 SL 221J 50V			
C187	4040000100	BARRIERLAYER UAT 04X 182K CERAMIC DD108 SL 201J 50V			
C188 C189	4010000370 4040000250	CERAMIC DD106 SŁ 201J 50V BARRIERLAYER UAT 08X 473M			
C190	4040000260	BARRIERLAYER UZE 08X 104M			
C191	4010000380 4010000160	CERAMIC DD107 SL 221J 50V CERAMIC DD104 SL 180J 50V			
C192 C193	4010000180	CERAMIC DD104 SL 180J 50V CERAMIC DD105 SL 101J 50V			
C194	4010000380	CERAMIC DD107 SL 221J 50V			
C195	4040000080	BARRIERLAYER UAT 04X 122K			
C196 C197	4010000350 4040000250	CERAMIC DD106 SL 151J 50V BARRIERLAYER UAT 08X 473M			
C198	4040000260	BARRIERLAYER UZE 08X 104M			
C199	4010000220	CERAMIC DD104 SL 330J 50V			
C200 C201	4010000340 4010000240	CERAMIC DD105 SL 121J 50V CERAMIC DD104 SL 390J 50V			
C201	4010000240	CERAMIC DD104 SL 3903 50V CERAMIC DD104 SL 680J 50V			
C203	4010000340	CERAMIC DD105 SL 121J 50V			
C204 C205	4040000460 4010000330	BARRIERLAYER RAU 08SA 821K CERAMIC DD105 SL 101J 50V			
C205 C206	4040000250	BARRIERLAYER UAT 08X 473M			
C207	4010000520	CERAMIC DD108 B 472K 50V			
C208 C209	4530000350 4010000520	ARRAY B8ZC0111-32N CERAMIC DD108 B 472K 50V			
0208	-010000320	OZ. 17 MINO D D 100 D 472N 30V			

[MAIN UNIT]

REF. NO.	ORDER NO.	DESCRIPTION
C210	4510004590	ELECTROLITIC 16 MV 470 HC
C210	4040000260	BARRIERLAYER UZE 08X 104M
C212	4510004990	ELECTROLITIC 16 MV 100 HC
C213	4510004600	ELECTROLITIC 16 MV 1000 HC
C214	4510004990	ELECTROLITIC 16 MV 100 HC
C215	4510005000 4040000250	ELECTROLITIC 16 MV 220 HC BARRIERLAYER UAT 08X 473M
C216 C217	4510003820	ELECTROLITIC 50 MV R22 SW
C218	4510004990	ELECTROLITIC 16 MV 100 HC
C219	4040000110	BARRIERLAYER UAT 04X 222K
C220	4310000400	MYLAR 50 F2D 223J ELECTROLITIC 50 MV R22 SW
C221 C222	4510003820 4510003910	ELECTROLITIC 50 MV R22 SW ELECTROLITIC 16 MV 47 HW
C223	4510003820	ELECTROLITIC 50 MV R22 SW
C226	4040000210	BARRIERLAYER UAT 06X 153K
C228	4010000520	CERAMIC DD108 B 472K 50V
C229	4040000150	BARRIERLAYER UAT 05X 472K CERAMIC DD105 CH 390J 50V
C230 C231	4010000840	CERAMIC DD111 CH 221J 50V
C232	4010001020	CERAMIC DD111 CH 221J 50V
C233	4010000520	CERAMIC DD108 B 472K 50V
C234	4010000520	CERAMIC DD108 B 472K 50V
C235	4010000520	CERAMIC DD108 B 472K 50V CERAMIC DD305 F 104Z 12V
C236 C237	4010004840	CERAMIC DD305 F 104Z 12V CERAMIC DD104 SL 220J 50V
C237	4040000150	BARRIERLAYER UAT 05X 472K
C239	4040000150	BARRIERLAYER UAT 05X 472K
C240	4010000520	CERAMIC DD108 B 472K 50V
C241	4010000180	CERAMIC DD104 SL 220J 50V
C242 C243	4310000400 4310000400	MYLAR 50 F2D 223J MYLAR 50 F2D 223J
C243	4310000400	MYLAR 50 F2D 223J
C245	4040000250	BARRIERLAYER UAT 08X 473M
C246	4550002120	TANTALUM DN 1C 220M
C247	4040000150	BARRIERLAYER UAT 05X 472K
C248 C249	4510003910 4510003840	ELECTROLITIC 16 MV 47 HW ELECTROLITIC 50 MV 1 SW
C250	4510003840	ELECTROLITIC 50 MV 1 SW
C251	4510003830	ELECTROLITIC 50 MV R47 SW
C252	4510003840	ELECTROLITIC 50 MV 1 SW
C253	4010000520	CERAMIC DD108 B 472K 50V CERAMIC DD108 B 472K 50V
C254 C255	4010000520 4010000520	CERAMIC DD108 B 472K 50V CERAMIC DD108 B 472K 50V
C256	4010000520	CERAMIC DD108 B 472K 50V
C257	4010000520	CERAMIC DD108 B 472K 50V
C258	4010000330	CERAMIC DD105 SL 101J 50V
C259	4010000520	CERAMIC DD108 B 472K 50V CERAMIC DD305 F 104Z 12V
C260 C261	4510005540	ELECTROLITIC 10 MV 33 SWB
C262	4040000250	BARRIERLAYER UAT 08X 473M
C263	4010000500	CERAMIC DD104 B 102K 50V
C264	4510003840	ELECTROLITIC 50 MV 1 SW
C265	4040000190	BARRIERLAYER UAT 05X 103K BARRIERLAYER UAT 05X 103K
C266 C267	4510003830	ELECTROLITIC 50 MV R47 SW
C268	4510003830	ELECTROLITIC 50 MV R47 SW
C269	4510003910	ELECTROLITIC 16 MV 47 HW
C270	4040000260	BARRIERLAYER UZE 08X 104M
C271 C274	4510003910	ELECTROLITIC 16 MV 47 HW CERAMIC DD104 B 471K 50V
C274 C279	4040000150	BARRIERLAYER UAT 05X 472K
C280	4040000150	BARRIERLAYER UAT 05X 472K
C281	4020000670	CYLINDER UP050 SL 470J
C283	4510003840	ELECTROLITIC 50 MV 1 SW
C284	4010000520	CERAMIC
C285 C286	4010000520 4010000520	CERAMIC DD108 B 472K 50V CERAMIC DD108 B 472K 50V
C287	4010000520	CERAMIC DD108 B 472K 50V
C288	4010000520	CERAMIC DD108 B 472K 50V
C289	4010000520	CERAMIC DD108 B 472K 50V
C290	4010000520	CERAMIC
C291 C292	4010000460 4010000520	CERAMIC DD104 B 47 IK 50V
C292	4310000400	MYLAR 50 F2D 223J
C294	4610001200	TRIMMER CVSSE3001
C295	4010000500	CERAMIC DD104 B 102K 50V
1		

U MIAINI	MAIN UNIT]			
REF.	ORDER		DESCRIPTION	
NO.	NO.			
C296	4010000520	CERAMIC	DD108 B 472K 50V	
C297	4040000250	BARRIERLAYER		
C298	4010004840		DD305 F 104Z 12V	
C299 C301	4040000260 4040000150	BARRIERLAYER BARRIERLAYER		
C302	4010000520		DD108 B 472K 50V	
C303	4010000940	CERAMIC	DD107 CH 101J 50V	
C304	4010004840		DD305 F 104Z 12V	
C305 C306	4010000940 4010000080		DD107 CH 101J 50V DD104 SL 040C 50V	
C306	4010000050	• • • • • • • • • • • • • • • • • • • •	DD104 SE 0400 S0V	
C308	4010000520		DD108 B 472K 50V	
C309	4010004840		DD305 F 104Z 12V	
C310 C311	4010004840 4010004840		DD305 F 104Z 12V DD305 F 104Z 12V	
C312	4040000440	BARRIERLAYER		
C314	4010004840		DD305 F 104Z 12V	
C315	4010004840		DD305 F 104Z 12V	
C316 C317	4010000350 4020000340		DD106 SL 151J 50V UP125 B 151K	
C317	4010004840		DD305 F 104Z 12V	
C319	4010000500		DD104 B 102K 50V	
C320	4010000500		DD104 B 102K 50V	
C321 C323	4010000520 4040000260	CERAMIC BARRIERLAYER	DD108 B 472K 50V	
C323	4010000500		DD104 B 102K 50V	
C325	4010000520		DD108 B 472K 50V	
C327	4010000500		DD104 B 102K 50V	
C328 C329	4010000500 4010000500		DD104 B 102K 50V DD104 B 102K 50V	
C330	4040000150	BARRIERLAYER		
C331	4010000520		DD108 B 472K 50V	
C332	4010000330		DD105 SL 101J 50V	
C333 C334	4010000520	CERAMIC BARRIERLAYER	DD108 B 472K 50V UZF 08X 104M	
C335	4010004840		DD305 F 104Z 12V	
C336	4010004840		DD305 F 104Z 12V	
C337	4510004990	ELECTROLITIC		
C338 C339	4510004990 4010000520		16 MV 100 HC DD108 B 472K 50V	
C340	4010000520		DD108 B 472K 50V	
C341	4010000520	CERAMIC	DD108 B 472K 50V	
C342	4010000520	CERAMIC	DD108 B 472K 50V DD108 B 472K 50V	
C343 C406	4010000520 4040000150	BARRIERLAYER		
C410	4040000150	BARRIERLAYER		
C412	4040000260	BARRIERLAYER		
C413 C414	4040000260 4010004840	BARRIERLAYER CERAMIC	DD305 F 104Z 12V	
C414 C415	4010000280		DD104 SL 470J 50V	
C417	4010000040	CERAMIC	DD104 SL 020C 50V	
C418	4510003850	ELECTROLITIC		
C419 C420	4040000190	BARRIERLAYER BARRIERLAYER		
C421	4040000250	BARRIERLAYER		
 51.4		DELAY	MZ-12HG	
RL1 RL2	6330000180 6330000560	RELAY RELAY	OUC-SH-114D	
l				
W76	7120000020	l	JPW 02H JPW 02H	
W325	7120000020	JUMPER	JPW 02H	
	1			
J1	6510003460	CONNECTOR	B10B-EH-S	
J2 J3	6510003410 6510003450	CONNECTOR	B05B-EH-S B09B-EH-S	
J3 J4	6510003450	CONNECTOR	TMP-J01X-A2	
J5	6510003250	CONNECTOR	TMP-J01X-A2	
J6	6510003430	CONNECTOR	B07B-EH-S	
J7 J8	6510003410 6510003420	CONNECTOR	B05B-EH-S B06B-EH-S	
J9	6510003420	CONNECTOR	B07B-EH-S	
J10	6510003450	CONNECTOR	B09B-EH-S	
J11	6510003250	CONNECTOR	TMP-J01X-A2	

REF.	ORDER NO.		DESCRIPTION
J12	6510003250	CONNECTOR	TMP-J01X-A2
J13	6510003390	CONNECTOR	B03B-EH-S
J13	6450000140	CONNECTOR	HSJ0807-01-010 [EX SP]
J15	645000140	CONNECTOR	HLJ4308-01-3080 [KEY]
J16	6450001200	CONNECTOR	JPJ2545-01-510 [SEND]
	6450000150	CONNECTOR	JPJ2545-01-510 [ALC]
J17 J18	6450000150	CONNECTOR	TCS4470-01-1111 [ACC2]
J18 J19	6450000170	CONNECTOR	TCS4480-01-1111 [ACC1]
	6510001110	CONNECTOR	3024-10CH
J20	6510001110	CONNECTOR	B03B-EH-S
J21	6510003390	CONNECTOR	B03B-EH-S
J22	6510003390	CONNECTOR	PDK-2081-65
J24	6510013780	CONNECTOR	PDK-2081-65
J25	6510013780	CONNECTOR	B07B-EH-S
J26		CONNECTOR	B03B-EH-S
J32	6510003390 6510006790	CONNECTOR	TSL-P03P-V2
J33			
J34	6510003430	CONNECTOR	BO7B-EH-S
J35	6510003430	CONNECTOR	B07B-EH-S
S ₂	2230000700	SWITCH	SPPJ31309A [ELECKEY]
S3	2220000360	SWITCH	ESD-1111212
S4	2220000360	SWITCH	ESD-1111212
S5	2220000360	SWITCH	ESD-1111212
**			
 	0010027228	РСВ	B 3663F
EP1	0910037326	PCB	D 3003F

[NOTCH BOARD]

REF. NO.	ORDER NO.		DESCRIPTION
IC1	1110001220	s.ic	BA4558F T1
IC2	1130005640	S.IC	TC4W53F (TE12L)
IC3	1130005640	S.IC	TC4W53F (TE12L)
Q1	1530002060	S.TRANSISTOR	2SC4081 T107 R
Q2	1530002060	S.TRANSISTOR	2SC4081 T107 R
R1	7030003410	S.RESISTOR	ERJ3GEYJ 561 V (560 Ω)
R2	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R3	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R4	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R5	7030003780	S.RESISTOR	ERJ3GEYJ 684 V (680 kΩ)
R6	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R7	7030003670	S.RESISTOR	ERJ3GEYJ 823 V (82 kΩ)
R8	7310003560	S.TRIMMER	RV-220 (RH03AVAJ4)223
R9	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R10	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R11	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R12	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R13	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R14	7030003510	S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)
R15	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R16	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R17	7030003240	S.RESISTOR	ERJ3GEYJ 220 V (22 Ω)
R18	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R19	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R20	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R21	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
C1	4030009880	S.CERAMIC	C1608 JB 1H 682K-T-A
C2	4030009880	S.CERAMIC	C1608 JB 1H 682K-T-A
C3	4030006810	S.CERAMIC	C1608 SL 1H 271J-T-A
C4	4550000270	S.TANTALUM	TESVA 1E 474M1-8L
C5	4550000550	S.TANTALUM	TESVA 1V 224M1-8L
C6	4550000460	S.TANTALUM	TESVA 1C 105M1-8L
C7	4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1C 473K-T-A
C8	4030006880		C1608 JB 1H 472K-T-A

[NOTCH BOARD]

REF. NO.	ORDER NO.		DESCRIPTION
W1 W2 W3 W4 W5 W6 W7 W8 W9 W10	703003860 703003860 703003860 703003860 703003860 703003860 703003860 703003860 703003860 703003860 703003860	S.JUMPER S.JUMPER S.JUMPER S.JUMPER S.JUMPER S.JUMPER S.JUMPER S.JUMPER S.JUMPER S.JUMPER S.JUMPER	ERJ3GE JPW V
EP1 EP2	0910041661 6910002720	PCB LEADFRAM	B 4110A HFB2.54-0.9-8 (N)

[FMAM UNIT]

REF.	ORDER		DESCRIPTION
NO.	NO.	 	
IC1	1110000630	IC	MC3357 P
IC2	1110001310	IC IC	μPC577HA
IC3	1110000250	IC	BA401
IC4	1110001320	IC	μРС1037НА
IC5	1110002500	l ic	M5218AL
Q1	1530000591	TRANSISTOR	2SC2785 EL
Q2	1590000340	TRANSISTOR	RN1202
Q3	1590000340	TRANSISTOR	RN1202
Q4 Q5	1510000080 1590000340	TRANSISTOR	2SA1048-GR RN1202
Q8	1590000340	TRANSISTOR	RN2202
Q7	1590000340	TRANSISTOR	RN1202
Q8	1590000340	TRANSISTOR	RN1202
Q9	1590000360	TRANSISTOR	RN2202
Q10	1590000340	TRANSISTOR	RN1202
Q11	1530000110	TRANSISTOR	2SC2458-GR
Q12	1590000360	TRANSISTOR	RN2202
Q13	1530000110	TRANSISTOR	2SC2458-GR
D1	1710000050	DIODE	1SS53
D2	1730000120	ZENER	RD6.2E B2
D3	1790000070	DIODE	1\$\$237
D4	1790000070	DIODE	1\$\$237
D8	1720000080	VARICAP	1SV50(1)E
D9	1710000050	DIODE	1\$\$53
D10	1710000160	DIODE	1\$\$133
D11	1710000180	DIODE	1SS133
D12	1710000180	DIODE	1SS133
D13 D14	1710000160 1790000070	DIODE	1\$\$133 1\$\$237
D14	1790000070	DIODE	1SS237
5,3	170000070	0.002	100207
FI1	2020000120	CERAMIC	CFW455E
' ' '			0
X1	6050008190	XTAL	CR-404 9.46500MHz
X2	6070000010	DISCRI	CDB455C7A
X3	6050000280	XTAL	HC-12/U 9.0105
/ · ·			110 12,0010100
L1	6180001710	COIL	LAL 03NA 561K
L2	6180001710	COIL	LAL 03NA 151K
L3	6150001200	COIL	LS-133
L4	6180000950	COIL	LAL 03NA 150K
L5	6180000880	COIL	LAL 03NA 100K
L6	6180000880	COIL	LAL 03NA 100K
L7	6180000900	COIL	LAL 03NA 101K
L8	6180000900	COIL	LAL 03NA 101K
L9	6180000960	COIL	LAL 03NA 102K
			v.
	l	<u>L</u>	

[FMAM UNIT]

REF.	ORDER	ī	DESCRIPTION
NO.	NO.		
R ₁	7010003400	RESISTOR	ELR20J 1 kΩ
R2	7010001030	RESISTOR	R25XJ 100 Ω
R3	7010003420		ELR20J 1.5 kΩ
R4	7010003420		ELR20J 1.5 kΩ
R5	7010003620 7010003420		ELR20J 47 kΩ ELR20J 1.5 kΩ
R6 R7	7010003420		ELR20J 12 kΩ
R8	7010003580		ELR20J 22 kΩ
R10	7510000320		ERT-D2ZGL 202S
R11	7010003360		ELR20J 470 Ω RH0651CN3J01A (332)
R14 R16	7310000730 7010003280		ELR20J 100 Ω
R17	75100003280		ERT-D2ZGL 332S
R18	7010003510		ELR20J 6.8 kΩ
R19	7010003580		ELR20J 22 kΩ
R20	7010003740		ELR20J 470 kΩ
R21	7010003480	RESISTOR RESISTOR	ELR20J 4.7 kΩ ELR20J 6.8 kΩ
R22 R23	7010003510 7010001320	RESISTOR	R25XJ 22 kΩ
R24	7010001020	RESISTOR	R20J 22 kΩ
R25	7010003420	RESISTOR	ELR20J 1.5 kΩ
R26	7310000710	TRIMMER	RH0651C13J1YA (102)
R27	7010003420	RESISTOR RESISTOR	ELR20J 1.5 kΩ R20J 1 kΩ
R28 R29	7010004190 7010004950	RESISTOR	R20J 1.5M Ω
R30	7010004330	RESISTOR	ELR20J 1 kΩ
R31	7010003780	RESISTOR	ELR20J 1 M Ω
R32	7010004190	RESISTOR	R20J 1 kΩ
R33	7010003410	RESISTOR	ELR20J 1.2 kΩ
R34	7010005090	RESISTOR RESISTOR	ELR20J 910 Ω ELR20J 2.2 kΩ
R35 R36	7010003440 7010003530	RESISTOR	ELR20J 10 kΩ
R37	7010004430	RESISTOR	R20J 68 kΩ
R38	7010004430	RESISTOR	R20J 68 kΩ
R39	7010003640	RESISTOR	ELR20J 68 kΩ
R40	7010000910	RESISTOR TRIMMER	R25XJ 10 Ω RH0851CS3J2KA (472)
R41 R42	7310000740 7010004230	RESISTOR	R20J 2.2 kΩ
R43	7010004230	RESISTOR	R20J 4.7 kΩ
R44	7310000750	TRIMMER	RH0651C14J2WA (103)
R45	7010003530	RESISTOR	ELR20J 10 kΩ
R46	7010003470	RESISTOR TRIMMER	ELR20J 3.9 kΩ RH0651C14J2WA (103)
R47 R48	7310000750 7010004310	RESISTOR	R20J 8.2 kΩ
R49	7010003580	RESISTOR	ELR20J 22 kΩ
R50	7010003810	RESISTOR	ELR20J 2.2M Ω
R51	7010003550	RESISTOR	ELR20J 15 kΩ
R52	7010003400 7310000740	RESISTOR TRIMMER	ELR20J 1 kΩ RH0651CS3J2KA (472)
R53 R54	7010000740	RESISTOR	ELR20J 470 Ω
R55	7010003400	RESISTOR	ELR20J 1 kΩ
R58	7010004270	RESISTOR	R20J 4.7 kΩ
R59	7010004210	RESISTOR	R20 1.5 kΩ
1			
C1	4010000260	CERAMIC	DD104 SL 470J 50V
C2	4010000520	CERAMIC	DD108 B 472K 50V
C3	4010000760	CERAMIC	DD104 CH 180J 50V
C4	4010000360	CERAMIC	DD106 SL 181J 50V
C5	4040000260 4040000260	BARRIERLAYER BARRIERLAYER	
C6 C7	4010000320	CERAMIC	DD104 SL 820J 50V
C8	4040000260	BARRIERLAYER	
C9	4510003800	ELECTROLITIC	
C10	4010000150	CERAMIC	DD104 SL 150J 50V
C11	4040000250 4040000460	BARRIERLAYER	UAT 08X 473M RAU 08SA 821K
C12 C13	4040000460	BARRIERLAYER	
C14	4040000250	BARRIERLAYER	
C15	4040000250	BARRIERLAYER	UAT 08X 473M
C16	4040000190	BARRIERLAYER	
C17	4040000260	BARRIERLAYER MYLAR	UZE 08X 104M 50 F2D 223J
C19 C20	4310000400 4310000400	MYLAR	50 F2D 223J
C21	4040000250	BARRIERLAYER	
C22	4010000520	CERAMIC	DD108 B 472K 50V
1			

[FMAM UNIT]

REF.	ORDER		DESCRIPTION
NO.	NO.		
000	4040000500	CERAMIC	DD108 B 472K 50V
C23 C24	4010000520 4010000150	CERAMIC	DD104 SL 150J 50V
C24 C25	4010000130	CERAMIC	DD104 SL 070D 50V
C25	4010000090	CERAMIC	DD107 CH 101J 50V
C27	4010000940	CERAMIC	DD107 CH 101J 50V
C28	4010000520	CERAMIC	DD108 B 472K 50V
C29	4040000150	BARRIERLAYER	
C30	4010000520	CERAMIC	DD108 B 472K 50V
C31	4010000460	CERAMIC	DD104 B 471K 50V
C32	4510003820	ELECTROLITIC	
C33	4010000520	CERAMIC	DD108 B 472K 50V
C34	4010000520	CERAMIC	DD108 B 472K 50V
C35	4010000520	CERAMIC	DD108 B 472K 50V
C36	4010000520	CERAMIC	DD108 B 472K 50V
C37	4510003830	ELECTROLITIC	50 MV R47 SW
C38	4310000570	MYLAR	50 F2D 222J
C39	4510003790	ELECTROLITIC	16 MV 10 SW
C40	4510003790	ELECTROLITIC	
C41	4510003790	ELECTROLITIC	16 MV 10 SW
C42	4010000500	CERAMIC	DD104 B 102K 50V
C43	4040000310	BARRIERLAYER	UAT 04V 222K
C44	4010000340	CERAMIC	DD105 SL 121J 50V
C45	4510003820	ELECTROLITIC	50 MV R22 SW
C48	4510004950	ELECTROLITIC	50 MV R47 SWNP
C48	4510003840	ELECTROLITIC	50 MV 1 SW
C49	4010000330	CERAMIC	DD105 SL 101J 50V
C50	4510003860	ELECTROLITIC	
C51	4510004910	ELECTROLITIC	16 MV 10 SWNP
C52	4010000520	CERAMIC	DD108 B 472K 50V
C53	4010000520	CERAMIC	DD108 B 472K 50V
C58	4040000190	BARRIERLAYER	UAT 05X 103K
W17	7120000020	JUMPER	JPW 02H
			-
J1	6510007990	CONNECTOR	3022-10B
J2	6510008000	CONNECTOR	TSL-P03P-D2
J3	6510007010	CONNECTOR	001P-1100
	1		
		DOD.	P. SACSP
EP1	0910036132	PCB	B 3608B

[PLL UNIT]

REF. NO.	ORDER NO.		DESCRIPTION	
IC2	1110001900	S.IC	μPC4570G2-T	1
IC3	1130000330	liC .	TC5081AP	
IC4	1130006440	S.IC	TC7S08F (TE	35R)
IC5	1130007131	S.IC	TC74HC390Al	F(EL)
IC6	1110003440	S.IC	μPC1686G-E1	
IC7	1110003440	S.IC	μPC1686G-E1	
IC201	1140003640	S.IC	SC-1246 (L7B	1106)
IC202	1130003610	\$.IC	TC4SU69F (T	E85R)
IC301	1110001550	S.IC	S-8054ALB-LN	∄- T1
IC302	1180001070	S.IC	TA7805F(TE1	6L)
IC303	1140000930	S.IC	HD64180R1F6	3
IC304	1140003870	IC	SC-1264	(OTH)
	1140004050	IC	SC-1276	(FRA)
IC305	1130004050	S.IC	LC3517AML-1	5-TRM
IC306	1140003230	S.IC	TMP82C265B	F-2
IC307	1130005890	S.IC	μPD4024BG-T	1
IC308	1130005770	S.IC	MB4052PF-G-	BND-TR
IC309	1130001920	S.IC	μPD4071BG-T	1
IC310	1130004920	S.IC	TC74HC04AF	
IC311	1130005310	S.IC	TC74HC32AF	
IC312	1130005250	S.IC	TC74HC08AF	
IC313	1130001920	S.IC	μPD4071BG-T	1
IC314	1130002660	S.IC	μPD4030BG-T	1
IC315	1130001230	S.IC	μPD4001BG-T	1
IC316	1130000830	S.IC	μPD4094BG-T	1
IC317	1110000240	IC	BA222-V	
IC318	1120000970	IC	M54562P	
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C319	REF.	ORDER NO.	DESCRIPTION
C320			IC M54582P
C321		1	
C322		1 ' '	•
C324			1
C501			1
C601		1	· · ·
Q1			
GS			2
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Q801 1510000510 S.TRANSISTOR 2SA1576 T107 R Q602 1530002080 S.TRANSISTOR 2SC4081 T107 R Q603 1530002080 S.TRANSISTOR 2SC4081 T107 R Q804 1530002880 S.TRANSISTOR 2SC3324-BL (TE85R) Q605 1590000680 S.TRANSISTOR DTC114EU T107 D1 1790000620 S.DIODE MA77(TW) D2 1790000540 S.VARICAP MA338(TX) D3 1790000540 S.VARICAP MA338(TX) D5 1790000540 S.DIODE MA77(TW) D6 1790000540 S.VARICAP MA338(TX) D7 1790000540 S.VARICAP MA338(TX) D8 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1180000060 S.DIODE DAN202U T107 D12 1180000060 S.DIODE DAN202U T107		l :	
Q802 1530002080 S.TRANSISTOR 2SC4081 T107 R Q803 1530002080 S.TRANSISTOR 2SC4081 T107 R Q804 1530002880 S.TRANSISTOR 2SC3324-BL (TE85R) Q805 1590000880 S.TRANSISTOR DTC114EU T107 D1 1790000820 S.DIODE MA77(TW) D2 1790000540 S.VARICAP MA338(TX) D3 1790000540 S.VARICAP MA338(TX) D5 1790000540 S.VARICAP MA338(TX) D6 1790000540 S.VARICAP MA338(TX) D7 1790000540 S.DIODE MA77(TW) D8 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1180000080 S.DIODE DAN202U T107 D12 1180000080 S.DIODE DAN202U T107		1590000430	S.TRANSISTOR DTC144EU T107
Q603 1530002080 S.TRANSISTOR 2SC4081 T107 R Q604 1530002860 S.TRANSISTOR 2SC3324-BL (TE85R) Q605 1590000880 S.TRANSISTOR DTC114EU T107 D1 1790000820 S.DIODE MA77(TW) D2 1790000540 S.VARICAP MA338(TX) D3 1790000540 S.VARICAP MA338(TX) D5 1790000540 S.VARICAP MA338(TX) D6 1790000540 S.VARICAP MA338(TX) D7 1790000540 S.DIODE MA77(TW) D8 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1160000060 S.DIODE DAN202U T107 D12 1160000060 S.DIODE DAN202U T107			
Q804 1530002880 S.TRANSISTOR 2SC3324-BL (TE85R) Q605 1590000880 S.TRANSISTOR DTC114EU T107 D1 1790000820 S.DIODE MA77(TW) D2 1790000540 S.DIODE MA77(TW) D3 1790000540 S.DIODE MA77(TW) D4 1790000540 S.VARICAP MA338(TX) D5 1790000540 S.VARICAP MA338(TX) D6 1790000540 S.DIODE MA77(TW) D8 1790000540 S.DIODE MA77(TW) D9 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1180000080 S.DIODE DAN202U T107 D12 1180000080 S.DIODE DAN202U T107	1	l	
Q605 1590000680 S.TRANSISTOR DTC114EU T107 D1 1790000620 S.DIODE MA77(TW) D2 1790000540 S.VARICAP MA338(TX) D3 1790000620 S.DIODE MA77(TW) D4 1790000640 S.VARICAP MA338(TX) D5 1790000620 S.DIODE MA77(TW) D6 1790000540 S.VARICAP MA338(TX) D7 1790000620 S.DIODE MA77(TW) D8 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1180000060 S.DIODE DAN202U T107 D12 1180000060 S.DIODE DAN202U T107	i .	l '	
D2 1790000540 S.VARICAP MA338(TX) D3 1790000620 S.DIODE MA77(TW) D4 1790000540 S.VARICAP MA338(TX) D5 1790000620 S.DIODE MA77(TW) D6 1790000540 S.VARICAP MA338(TX) D7 1790000540 S.VARICAP MA338(TX) D8 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1180000060 S.DIODE DAN202U T107 D12 1180000060 S.DIODE DAN202U T107		l l	• • •
D2 1790000540 S.VARICAP MA338(TX) D3 1790000620 S.DIODE MA77(TW) D4 1790000540 S.VARICAP MA338(TX) D5 1790000620 S.DIODE MA77(TW) D6 1790000540 S.VARICAP MA338(TX) D7 1790000540 S.VARICAP MA338(TX) D8 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1180000060 S.DIODE DAN202U T107 D12 1180000060 S.DIODE DAN202U T107			·
D3 1790000620 S.DIODE MA77(TW) D4 1790000540 S.VARICAP MA338(TX) D5 1790000620 S.DIODE MA77(TW) D6 1790000540 S.VARICAP MA338(TX) D7 1790000540 S.DIODE MA77(TW) D8 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1180000060 S.DIODE DAN202U T107 D12 1180000060 S.DIODE DAN202U T107			
D4 1790000540 S.VARICAP MA338(TX) D5 1790000620 S.DIODE MA77(TW) D6 1790000540 S.VARICAP MA338(TX) D7 1790000540 S.DIODE MA77(TW) D8 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1180000080 S.DIODE DAN202U T107 D12 1180000060 S.DIODE DAN202U T107			· ·
D5 1790000620 S.DIODE MA77 (TW) D6 1790000540 S.VARICAP MA338(TX) D7 1790000620 S.DIODE MA77 (TW) D8 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1180000060 S.DIODE DAN202U T107 D12 1160000060 S.DIODE DAN202U T107			
D6 1790000540 S.VARICAP MA338(TX) D7 1790000620 S.DIODE MA77(TW) D8 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1160000060 S.DIODE DAN202U T107 D12 1160000060 S.DIODE DAN202U T107			
D8 1790000540 S.VARICAP MA338(TX) D9 1790000540 S.VARICAP MA338(TX) D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1160000060 S.DIODE DAN202U T107 D12 1160000060 S.DIODE DAN202U T107	1		
D9 1790000540 S.VARICAP MA338(TX) D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1180000080 S.DIODE DAN202U T107 D12 1180000080 S.DIODE DAN202U T107			• •
D10 1730000850 S.ZENER RD9.1M-T2B3 D11 1180000080 S.DIODE DAN202U T107 D12 1180000080 S.DIODE DAN202U T107	E .		, , ,
D11			. ,
D12			t to the second of the second
D301 1160000060 S.DIODE DAN202U T107			
	D301	1160000060	S.DIODE DAN202U T107
	<u> </u>		

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REF. NO.	ORDER NO.		DESCRIPTION
D303	1710000160	DIODE	1SS133
D306	1160000060	S.DIODE	DAN202U T107
D307	1160000060	S.DIODE	DAN202U T107
D308	1160000060	S.DIODE	DAN202U T107
D309	1160000060	S.DIODE	DAN202U T107
D310	1160000060	S.DIODE	DAN202U T107
D311 D312	1160000060 1160000060	S.DIODE S.DIODE	DAN202U T107 DAN202U T107
D312	1160000000	S.DIODE	DAN2020 T107 DAN202U T107
D314	1160000060	S.DIODE	DAN202U T107
D315	1160000060	S.DIODE	DAN202U T107
D316	1160000060	S.DIODE	DAN202U T107
D317 D318	1160000060	S.DIODE S.DIODE	DAN202U T107 (FRA) DAN202U T107
D319	1160000060	S.DIODE	DAN202U T107
D320	1730000410	S.ZENER	RD5.1M-T2B2
D321	1160000060	S.DIODE	DAN202U T107
D329 D330	1160000050	S.DIODE S.DIODE	DAP202U T107 DAP202U T107
D330	1160000050 1160000050	S.DIODE S.DIODE	DAP2020 1107 DAP202U T107
D332	1160000050	\$.DIODE	DAP202U T107
D333	1160000050	S.DIODE	DAP202U T107
D334	1160000050	S.DIODE	DAP202U T107
D335	1160000060 1160000060	S.DIODE S.DIODE	DAN202U T107 DAN202U T107
D336 D344	1160000060	S.DIODE S.DIODE	DAN202U 1107 DAN202U T107
D345	1160000060	S.DIODE	DAN202U T107
D501	1730000410	S.ZENER	RD5.1M-T2B2
D601	1160000060	S.DIODE	DAN202U T107
D602 D604	1160000060	S.DIODE S.DIODE	DAN202U T107 DAN202U T107
D004	1100000000	3.DIODE	DAN2020 1107
1			
X1	6050005710	XTAL XTAL	CR-275
X301 X501	8050005760 8060000160	CERAMIC	CR-276 CSB500E
.,	8180000000	S.COIL	NL 322522T-R18J-3
L1 L2	6180002960 6180002980	S.COIL	NL 322522T-N163-3 NL 322522T-056J
L3	6180002970	S.COIL	NL 322522T-068J
L5	6200002980	S.COIL	NL 322522T-R56J-3
L6	6200003260	S.COIL	NL 322522T-101J
L7 L10	6200003260 6170000230	S.COIL COIL	NL 322522T-101J LW-25
L11	6200003260	S.COIL	NL 322522T-101J
L12	6190000950	COIL	C-13975-6.5T
L13	6140002220	COIL	LR-270
L14	6170000230	COIL	LW-25
L15 L16	6190000950 6140002220	COIL	C-13975-6.5T LR-270
L17	6170000230	COIL	LW-25
L18	6190000950	COIL	C-13975-6.5T
L19	6140002220	COIL	LR-270
L20 L21	6170000230 6190000950	COIL	LW-25 C-13075-8 5T
L21 L22	6140002220	COIL	C-13975-6.5T LR-270
L23	6200001830	S.COIL	NL 322522T-100J
L24	6200003260	S.COIL	NL 322522T-101J
L26	6150000990	COIL	LS-114
L27 L28	6150000990 6150000760	COIL	LS-114 LS-94
L29	6170000230	COIL	LW-25
L30	6200003260	S.COIL	NL 322522T-101J
L31	6200003260	S.COIL	NL 322522T-101J
L32 L35	6200003260 6200003260	S.COIL S.COIL	NL 322522T-101J NL 322522T-101J
L35	6200003260	S.COIL	NL 322522T-101J NL 322522T-101J
L37	6200003010	S.COIL	NL 322522T-R27J-3
L38	6200003010	S.COIL	NL 322522T-R27J-3
L39	6180002960	S.COIL	NL 322522T-R18J-3
L40 L41	6200001830 6200001830	S.COIL S.COIL	NL 322522T-100J NL 322522T-100J
L41 L42	6140002220	COIL	LR-270
L43	6190000950	COIL	C-13975-6.5T
L46	6180002960	S.COIL	NL 322522T-R18J-3

REF.	ORDER		DESCRIPTION
NO.	NO.		
L47	6200002960	S.COIL	NL 322522T-4R7J-3
L48 L49	6200001830 6200003120	S.COIL S.COIL	NL 322522T-100J NL 322522T-8R2J
L50	6200003120	S.COIL	NL 322522T-101J
L54	6180002960	S.COIL	NL 322522T-R18J-3
L201	6200003230	S.COIL	NL 322522T-181J
L202 L203	6200003230	S.COIL S.COIL	NL 322522T-181J NL 322522T-181J
L301	6180000960	COIL	LAL 03NA 102K
L302	6180000960	COIL	LAL 03NA 102K
L303 L304	6910003570 6910003570	COIL	2943-666663 2943-666663
L305	6910000670	COIL	BT01RN1-A61-001
L306	6180001000	COIL	LAL 04NA 102K
L307 L308	6180000900	COIL	LAL 03NA 101K LAL 03NA 101K
L309	6180000880	COIL	LAL 03NA 100K
L311	6180000960	COIL	LAL 03NA 102K
L312 L601	6180000960	COIL	LAL 03NA 102K LAL 03NA 101K
L602	6180000960	COIL	LAL 03NA 102K
R1	7030003430	S.RESISTOR	ERJ3GEYJ 821 V (820 ℚ)
R2 R3	7030004030 7030003430	S.RESISTOR S.RESISTOR	ERJ3GEYJ 5R6 V (5.8 Ω) ERJ3GEYJ 821 V (820 Ω)
R4	7030003430	S.RESISTOR	ERJ3GEYJ 330 V (33 Ω)
R5	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R6 R7	7030003530	S.RESISTOR S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R8	7030003440	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
R9	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R13 R14	7030003360	S.RESISTOR S.RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 472 V (4.7 kΩ)
R15	7030003320	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R22	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
R23 R24	7030003340	S.RESISTOR S.RESISTOR	ERJ3GEYJ 151 V (150 Ω) ERJ3GEYJ 470 V (47 Ω)
R25	7030003260	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R26	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R27 R31	7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 332 V (3.3 kΩ)
R32	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R33	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R34 R38	7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 332 V (3.3 kΩ)
R39	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R40	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R41 R45	7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 332 V (3.3 kΩ)
R46	7030003300	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R47	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R48 R50	7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)
R51	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R52	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R53 R54	7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 471 V (470 Ω)
R55	7030003400	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)
R56	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)
R68 R69	7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R70	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R71	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R72 R73	7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R76	7030003440	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R83	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R84	7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 223 V (22 kΩ)
R85 R87	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 KΩ) ERJ3GEYJ 221 V (220 Ω)
R88	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R89	7030003660	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)
R90 R91	7030003600	S.RESISTOR S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 221 V (220 Ω)
R92	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)

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REF. NO.	ORDER NO.		DESCRIPTION
R93	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
R94	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R96	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)
R97	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
R98	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R99 R100	7030003600 7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 471 V (470 Ω)
R102	7030003400	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
R106	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R107	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R108	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R109 R110	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R111	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R112	7030005360	S.RESISTOR	RR0816P-751-D (750 Ω)
R113	7030005350	S.RESISTOR	RR0816P-182-D (1.8 kΩ)
R114	7030005340 7030005330	S.RESISTOR	RR0816P-332-D (3.3 kΩ) RR0816P-562-D (5.6 kΩ)
R115 R116	7030005330	S.RESISTOR S.RESISTOR	RR0816P-103-D (10 kΩ)
R117	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R118	7010003970	RESISTOR	R20J 15 Ω
R119	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R120	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) R20J 47 Ω
R121 R122	7010004030 7030003580	RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R123	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R124	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R125	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R126 R127	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R128	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R129	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R130	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R131	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R132 R133	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R134	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R135	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R136 R137	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R138	7030003440	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R140	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R141	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R142 R143	7030003560 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 103 V (10 kΩ)
R144	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R145	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R146	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R147 R148	7030003560 7030003200	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 100 V (10 Ω)
R149	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)
R150	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)
R151	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)
R152 R153	7030003200 7030003200	S.RESISTOR S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 100 V (10 Ω)
R168	7030003200	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R169	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R170	7030003300	S.RESISTOR	ERJ3GEYJ 880 V (68 Ω)
R171	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R174 R175	7030003480 7030003290	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 560 V (56 Ω)
R176	7030003290	S.RESISTOR	ERJ3GEYJ 560 V (56 Ω)
R179	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)
R180	7030003350	S.RESISTOR	ERJ3GEYJ 181 V (180 Ω)
R181 R190	7070000430 7030003680	RESISTOR S.RESISTOR	CRH100X R-02J 15 Ω (150) ERJ3GEYJ 104 V (100 kΩ)
R191	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R192	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R193 R194	7030003280 7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 470 V (47 Ω) ERJ3GEYJ 471 V (470 Ω)
R194	7030003400	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)
R196	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R197	7030003300	S.RESISTOR	ERJ3GEYJ 880 V (68 Ω)
R201 R205	7030003400 7030005400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) RR0816P-202-D (2 kΩ)
R205	7030005400	S.RESISTOR	RR0816P-102-D (1 kΩ)
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REF.	ORDER		DESCRIPTION
NO.	NO.		
R207	7030005390	S.RESISTOR	RR0816P-102-D (1 kΩ)
R208 R209	7030005390 7030005390	S.RESISTOR S.RESISTOR	RR0816P-102-D (1 kΩ) RR0816P-102-D (1 kΩ)
R210	7030005390	S.RESISTOR	RR0816P-102-D (1 kΩ)
R211	7030005390	S.RESISTOR	RR0816P-102-D (1 kΩ)
R212	7030005380	S.RESISTOR	RR0816P-102-B (1 kΩ)
R213	7030005380	S.RESISTOR	RR0816P-102-B (1 kΩ) RR0816P-102-B (1 kΩ)
R214 R215	7030005380 7030005380	S.RESISTOR S.RESISTOR	RR0816P-102-B (1 kΩ)
R216	7030005380	S.RESISTOR	RR0816P-102-B (1 kΩ)
R217	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)
R218	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)
R219	7030005400 7030005400	S.RESISTOR S.RESISTOR	RR0816P-202-D (2 kΩ) RR0816P-202-D (2 kΩ)
R220 R221	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)
R222	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)
R223	7030005370	S.RESISTOR	RR0816P-202-B (2 kΩ)
R224	7030005370	S.RESISTOR	RR0816P-202-B (2 kΩ)
R225 R226	7030005370	S.RESISTOR S.RESISTOR	RR0816P-202-B (2 kΩ) RR0816P-202-B (2 kΩ)
R227	7030005370	S.RESISTOR	RR0816P-202-B (2 kΩ)
R228	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)
R229	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R230	7030003800	S.RESISTOR S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ) ERJ3GEYJ 473 V (47 kΩ)
R301 R302	7030003640	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R303	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R304	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R305	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R306 R307	7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)
R308	7010004670	RESISTOR	R50XJ 22 Ω
R309	7010004670	RESISTOR	R50XJ 22 Ω
R310	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R311	7030003570	S.RESISTOR S.RESISTOR	ERJ3GEYJ 123 V (12 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R312 R313	7030003440 7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R314	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R315	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R316	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R317 R318	7510000310 7030003560	THERMISTOR S.RESISTOR	ERT-D2ZHL 802S ERJ3GEYJ 103 V (10 kΩ)
R319	7310003250	TRIMMER	EVN-D2AA03 B33 (302)
R320	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R321	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R322 R323	7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 105 V (1 MΩ)
R324	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
R325	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R326	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R327	7030003720	S.RESISTOR S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ) ERJ3GEYJ 104 V (100 kΩ)
R328 R329	7030003880	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
R330	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
R331	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R332	7030003840	S.RESISTOR	ERJ3GEYJ 225 V (2.2 MΩ)
R333 R335	7030003560 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R336	7030003660	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)
R337	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R338	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
R339	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R340 R341	7030003840	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R342	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R343	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R344	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R345	7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R346 R347	7030003640 7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R348	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R349	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R350	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R351 R352	7030003640 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R353	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
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REF.	ORDER NO.		DESCRIPTION
		o DECISTOR	FD In CEVI 100 V (1 kO)
R354 R355	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R356	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R357	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R358	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R359 R360	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R361	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R362	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R363	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R364 R365	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R366	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R367	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R368	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R369 R371	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R372	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R373	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R374 R375	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R377	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R378	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R379	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R381 R382	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R383	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R384	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R385	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R386 R387	7030003440 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R388	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R389	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R390	7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R391 R392	7030003440 7030003580	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R393	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R394	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R395 R396	7030003400 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 473 V (47 kΩ)
R397	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R398	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R399 R400	7030003640 7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)
R401	7030003480	S.RESISTOR	ERJ3GEYJ 393 V (39 kΩ)
R402	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R403	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R404 R405	7030003640 7030003 6 40	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R501	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R502	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R503	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 103 V (10 kΩ)
R504 R505	7030003560 7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R506	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
R507	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)
R508 R601	7310000790 7210001480	TRIMMER VARIABLE	RH0651C15J1UA (104) RK09K1110AAEA (10KB)
11001	7210001400	TATINDEL	[VOX GAIN]
R602	7210001460	VARIABLE	RK09K1110AAEA (10KB) [ANTI VOX]
R603	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R604	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R605 R606	7030003480 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)
R607	7030003520	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R608	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R609	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R610 R611	7030003440 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 103 V (10 kΩ)
R612	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R613	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R614	7030003680 7030003800	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 105 V (1 MΩ)
R615 R616	7030003800	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R621	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)

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REF.	ORDER		DESCRIPTION	
NO.	NO.			
R622	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	
R623 R624	7030003640 7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 471 V (470 Ω)	
R625	7030003400	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R626	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)	
R627	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)	
C1	4030006720	S.CERAMIC	C1608 SL 1H 560J-T-A	
C2 C3	4030006700 4030006720	S.CERAMIC S.CERAMIC	C1608 SL 1H 390J-T-A C1608 SL 1H 560J-T-A	
C4	4030006720	S.CERAMIC	C1608 SL 1H 330J-T-A	
C5	4030006550	S.CERAMIC	C1608 SL 1H 040C-T-A	
C6 C7	4030008720 4030008820	S.CERAMIC S.CERAMIC	C1608 SL 1H 560J-T-A C1608 SL 1H 120J-T-A	
C8	4030006690	S.CERAMIC	C1608 SL 1H 330J-T-A	
C9	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C10 C12	4030006750 4030006880	S.CERAMIC S.CERAMIC	C1608 SL 1H 101J-T-A C1608 JB 1H 472K-T-A	
C12	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A	
C16	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C17 C18	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
C22	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C23	4030006550	S.CERAMIC	C1608 SL 1H 040C-T-A	
C24 C25	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
C26	4030000000	S.CERAMIC	C1608 CH 1H 120J-T-A	
C27	4030007020	S.CERAMIC	C1608 CH 1H 120J-T-A	
C28 C29	4030007110 4610001270	S.CERAMIC S.TRIMMER	C1608 CH 1H 680J-T-A ECR-JA010 A12W	
C30	4030007040	S.CERAMIC	C1608 CH 1H 180J-T-A	
C31	4030007130	S.CERAMIC	C1608 CH 1H 101J-T-A	
C32 C33	4030006860 4030006550	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 SL 1H 040C-T-A	
C34	4030006330	S.CERAMIC	C1608 JB 1H 472K-T-A	
C35	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C36 C37	4030007020 4030007020	S.CERAMIC S.CERAMIC	C1608 CH 1H 120J-T-A C1608 CH 1H 120J-T-A	
C38	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A	
C39	4610001270	S.TRIMMER	ECR-JA010 A12W	
C40 C41	4030007030 4030007110	S.CERAMIC S.CERAMIC	C1608 CH 1H 150J-T-A C1608 CH 1H 680J-T-A	
C42	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C43	4030006540 4030006880	S.CERAMIC S.CERAMIC	C1608 SL 1H 030C-T-A C1608 JB 1H 472K-T-A	
C44 C45	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A	
C46	4030007020	S.CERAMIC	C1608 CH 1H 120J-T-A	
C47	4030007020	S.CERAMIC	C1608 CH 1H 120J-T-A C1608 CH 1H 470J-T-A	
C48 C49	4030007090 4610001170	S.CERAMIC S.TRIMMER	ECR-JA006 A12W	
C50	4030007010	S.CERAMIC	C1608 CH 1H 100D-T-A	
C51 C52	4030007090 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T-A C1608 JB 1H 102K-T-A	
C52 C53	4030006540	S.CERAMIC S.CERAMIC	C1608 SL 1H 030C-T-A	
C54	4030006880	S.CERAMIC	C1808 JB 1H 472K-T-A	
C55 C56	4030006880 4030007020	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 CH 1H 120J-T-A	
C57	4030007020	S.CERAMIC	C1608 CH 1H 120J-T-A	
C58	4030007070	S.CERAMIC	C1608 CH 1H 330J-T-A	
C59 C60	4610001170 4030008980	S.TRIMMER S.CERAMIC	ECR-JA006 A12W C1608 CH 1H 050C-T-A	
C61	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A	
C62	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A	
C63 C64	4510004990 4030006880	S.CERAMIC	16 MV 100 HC C1608 JB 1H 472K-T-A	
C68	4510004990	ELECTROLITIC	16 MV 100 HC	
C69	4510005250	ELECTROLITIC	50 MV 2R2 SWNP	
C70 C73	4510005250 4510004990	ELECTROLITIC ELECTROLITIC	50 MV 2R2 SWNP 16 MV 100 HC	
C79	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C80	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A C1608 SL 1H 090D-T-A	
C81 C82	4030006600	S.CERAMIC S.CERAMIC	C1608 SL 1H 090D-1-A C1608 SL 1H 0R5C-T-A	
C83	4030006600	S.CERAMIC	C1608 SL 1H 090D-T-A	
C84	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A	
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REF. NO.	ORDER NO.		DESCRIPTION
C85	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C87	4030006800	S.CERAMIC	C1608 SL 1H 221J-T-A
C88	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C89	4030008110 4030006880	S.CERAMIC S.CERAMIC	C1608 TH 1H 101J-T-A C1608 JB 1H 472K-T-A
C91	4030008100	S.CERAMIC	C1608 TH 1H 820J-T-A
C92	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C93	4030008300	S.CERAMIC S.TRIMMER	C1608 UJ 1H 330J-T-A ECR-JA020 E12W
C94 C95	4810001260 4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C96	4510003910	ELECTROLITIC	16 MV 47 HW
C98	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A
C99 C100	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A
C100	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C111	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C112	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A
C118 C119	4030006880 4030006730	S.CERAMIC	C1608 SL 1H 680J-T-A
C120	4030006560	S.CERAMIC	C1608 SL 1H 050C-T-A
C121	4030006750	S.CERAMIC	C1608 SL 1H 101J-T-A
C122 C123	4030006620 4030006750	S.CERAMIC S.CERAMIC	C1608 SL 1H 120J-T-A C1608 SL 1H 101J-T-A
C123	4030000730	S.CERAMIC	C1608 SL 1H 330J-T-A
C125	4030010010	S.CERAMIC	C1608 SL 1H 510J-T-A
C127	4030006690	S.CERAMIC	C1608 SL 1H 330J-T-A
C129 C130	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A
C132	4030006720	S.CERAMIC	C1608 SL 1H 560J-T-A
C133	4030006600	S.CERAMIC	C1608 SL 1H 090D-T-A
C134 C135	4030006730 4030006860	S.CERAMIC S.CERAMIC	C1608 SL 1H 680J-T-A C1608 JB 1H 102K-T-A
C135	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C138	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A
C139	4030007040	S.CERAMIC	C1608 CH 1H 180J-T-A
C140 C141	4610001270 4030010000	S.TRIMMER S.CERAMIC	ECR-JA010 A12W C1608 CH 1H 510J-T-A
C142	4030006620	S.CERAMIC	C1608 SL 1H 120J-T-A
C143	4030007140	S.CERAMIC	C1608 CH 1H 121J-T-A
C144 C148	4030007140 4030006690	S.CERAMIC S.CERAMIC	C1608 CH 1H 121J-T-A C1608 SL 1H 330J-T-A
C149	4030006830	S.CERAMIC	C1608 SL 1H 331J-T-A
C150	4030006870	S.CERAMIC	C1608 JB 1H 222K-T-A
C151 C152	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A
C152	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C155	4030006870	S.CERAMIC	C1608 JB 1H 222K-T-A
C156	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A
C157 C158	4030008920 4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1C 473K-T-A
C159	4510003800	ELECTROLITIC	25 MV 4R7 SW
C160	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C161 C162	4510003800 4030006880	S.CERAMIC	25 MV 4R7 SW C1608 JB 1H 472K-T-A
C201	4030006780	S.CERAMIC	C1608 SL 1H 181J-T-A
C202	4030006670	S.CERAMIC	C1608 SL 1H 270J-T-A
C203 C204	4030006800	S.CERAMIC S.CERAMIC	C1608 SL 1H 221J-T-A C1608 SL 1H 470J-T-A
C205	4030006780	S.CERAMIC	C1608 SL 1H 181J-T-A
C206	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C207 C208	4030008710 4030008920	S.CERAMIC S.CERAMIC	C1808 SL 1H 470J-T-A C1608 JB 1C 473K-T-A
C200	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C211	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C212	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A
C213 C214	4030008920 4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1C 473K-T-A
C216	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C217	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C218 C219	4030008920 4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A
C219	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C221	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C222 C223	4030008920 4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A
C223	4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A
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L	<u> </u>	<u> </u>	

REF. ORDER DESCRIPTION NO. NO. 4030006880 S.CERAMIC C1608 JB 1H 472K-T-A C225 4040000260 **BARRIERLAYER UZE 08X 104M** C301 S.CERAMIC C1608 SL 1H 200J-T-A 4030006650 C302 C303 4030006650 S CERAMIC C1608 SL 1H 200J-T-A C304 4510003800 **ELECTROLITIC 25 MV 4R7 SW** C1608 JB 1H 472K-T-A C305 4030006880 S.CERAMIC 4510003800 **ELECTROLITIC** 25 MV 4R7 SW C306 S.CERAMIC C1608 JB 1H 472K-T-A 4030006880 C307 C308 4030008920 S.CERAMIC C1808 JB 1C 473K-T-A C309 4030008920 S.CERAMIC C1608 JB 1C 473K-T-A S.CERAMIC C1608 SL 1H 470J-T-A C310 4030006710 C1608 JB 1C 473K-T-A C311 4030008920 S.CERAMIC C312 4030008920 S.CERAMIC C1608 JB 1C 473K-T-A S.CERAMIC 4030006860 C1608 JB 1H 102K-T-A C313 S CERAMIC C314 4030006860 C1608 JB 1H 102K-T-A C315 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A S.CERAMIC C1608 JB 1H 102K-T-A C316 4030006860 C317 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A S.TANTALUM TESVA 1E 474M1-8L 4550000270 C318 S.CERAMIC C319 4030008920 C1608 JB 1C 473K-T-A C321 4030006880 S.CERAMIC C1608 JB 1H 472K-T-A 4030008920 S.CERAMIC C1608 JB 1C 473K-T-A C322 C1608 JB 1H 472K-T-A C323 4030006880 S.CERAMIC 4030006880 S.CERAMIC C1608 JB 1H 472K-T-A C324 C1608 JB 1H 472K-T-A S.CERAMIC 4030006880 C325 **FLECTROLITIC 16 MV 1000 HC** C326 4510004600 C327 4030006880 S.CERAMIC C1608 JB 1H 472K-T-A S.CERAMIC C1608 JB 1H 472K-T-A C328 4030006880 C329 4030008920 S.CERAMIC C1608 JB 1C 473K-T-A S.CERAMIC C1608 JB 1C 473K-T-A 4030008920 C330 C1608 JB 1C 473K-T-A S.CERAMIC C331 4030008920 C332 4030008920 S.CFRAMIC C1608 JB 1C 473K-T-A S.CERAMIC C333 4030008920 C1608 JB 1C 473K-T-A C334 4030008920 S.CERAMIC C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A C335 4030008920 S.CERAMIC 4030006880 S.CERAMIC C1608 JB 1H 472K-T-A C336 4030006880 S.CERAMIC C1608 JB 1H 472K-T-A C338 C339 4030006880 S.CERAMIC C1608 JB 1H 472K-T-A C340 4030006880 S.CERAMIC C1608 JB 1H 472K-T-A 4030006880 S.CERAMIC C1608 JB 1H 472K-T-A C341 C1608 JB 1C 473K-T-A C343 4030008920 S.CERAMIC 50 F2D 102J C344 4310000330 **MYLAR ELECTROLITIC 16 MV 10 SW** C345 4510003790 C346 4510005240 **ELECTROLITIC 16 MV 22 SWB** C347 4510005240 **ELECTROLITIC 16 MV 22 SWB ELECTROLITIC 50 MV 3R3 SW** C348 4510003860 C350 4510003820 **ELECTROLITIC 50 MV R22 SW ELECTROLITIC 50 MV 2R2 SW** C351 4510003850 **ELECTROLITIC 50 MV 3R3 SW** 4510003860 C352 C353 4030008920 S CERAMIC C1608 JB 1C 473K-T-A C354 4030006880 S.CERAMIC C1608 JB 1H 472K-T-A S.CERAMIC C1608 JB 1H 472K-T-A C355 4030006880 C356 4030006900 S.CERAMIC C1608 JB 1E 103K-T-A 4030008920 S.CERAMIC C1608 JB 1C 473K-T-A C357 S.CERAMIC C1608 JB 1C 473K-T-A 4030008920 C358 S.CERAMIC C1608 JB 1C 473K-T-A C359 4030008920 C360 4030008920 S.CERAMIC C1608 JB 1C 473K-T-A 4030008920 S.CERAMIC C1608 JB 1C 473K-T-A C362 C363 4510003790 **ELECTROLITIC 16 MV 10 SW** C1608 JB 1H 102K-T-A 4030006860 S.CERAMIC C364 4030006860 S CERAMIC C1608 JB 1H 102K-T-A C365 C366 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A C367 C368 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A C369 C1608 JB 1H 102K-T-A 4030006860 S.CERAMIC C370 S.CERAMIC C1608 JB 1H 102K-T-A 4030006860 C371 S.CERAMIC C372 4030006860 C1608 JB 1H 102K-T-A C373 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A S.CERAMIC C1608 JB 1H 102K-T-A C374 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A C375 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A 4030006860 C376 S.CERAMIC C1608 JB 1H 102K-T-A C377 4030006860 C378 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A C379 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A C380

[PLL UNIT]

REF.	ORDER		
NO.	NO.		DESCRIPTION
C381	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C382	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C383	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C384	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C391	4010004470	CERAMIC	DD12 B 472K 500V
C392	4030006880	CERAMIC	C1608 JB 1H 472K-T-A
C399	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C422	4530000170	ARRAY	B7ZC0714-32N (472K×6)
C501	4310000480	MYLAR	50 F2D 104J
C502	4310000610	MYLAR	50 F2D 472J
C503	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C504	4510003790	ELECTROLITIC	16 MV 10 SW
C505	4030006750	S.CERAMIC	C1608 SL 1H 101J-T-A
C506	4030006750	S.CERAMIC	C1608 SL 1H 101J-T-A
C507	4510003850	ELECTROLITIC	50 MV 2R2 SW
C601	4510005000	ELECTROLITIC	16 MV 220 HC
C602	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C603	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C604	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C605	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C606	4510003910	ELECTROLITIC	16 MV 47 HW
C607	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C608	4510003790	ELECTROLITIC	
C609	4510003850	ELECTROLITIC	
C610	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C621	4510004950	ELECTROLITIC	
C623	4510005000	ELECTROLITIC	16 MV 220 HC
C625	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C626	4510003800	ELECTROLITIC	
C627	4510003910	ELECTROLITIC	16 MV 47 HW
C628	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C629	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
l			
BT301	3020000110	LITHIUM	CR2032
B1301	3020000110	LITTION	CN2032
W301	7120000010	JUMPER	JPW 02A
W301	7120000010	JONIFER	3F W 02A
J1	6510003080	CONNECTOR	RT01T-1.0B
J2	6510003080	CONNECTOR	RT01T-1.0B
J301	8450000140	CONNECTOR	HSJ0807-01-010 [REMOTE]
J302	6510003390	CONNECTOR	B03B-EH-S
J303	6510007170	CONNECTOR	PI28A-03M
J304	6510007090	CONNECTOR	PI28A-04M
J305	6510011180	CONNECTOR	Pl28A-14M
J307	6510007110	CONNECTOR	PI28A-10M
J312	6510008370	CONNECTOR	BBH-1
J313	6510010920	CONNECTOR	Pl28A-11M
J314	2610000200	CONNECTOR	ICC05-028 360T
J324	6510011150	CONNECTOR	PI28A-08M
J325	6510007180	CONNECTOR	PI28A-05M
J502	6510003400	CONNECTOR	B04B-EH-S
EP301	0910039904	PCB	B 3928D
EP302	6910000600	BEAD	FSOH050RN
L			

[PA PARTS]

REF. NO.	ORDER NO.		DESCRIPTION
Q1	1520000290	TRANSISTOR	2SB1015-Y
SP1 ,	2510000040	SPEAKER	C065K12l0810
MF1	2710000390	FAN	FBA08T12L
	1.		

[PA UNIT]

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NO. NO. TRANSISTOR 28C1971 1530000190 TRANSISTOR 28C1971 1530000190 TRANSISTOR 28C3133 1530000190 TRANSISTOR 28C3133 1530000200 TRANSISTOR 28C2904 1540000200 TRANSISTOR 28C2904 1530000200 TRANSISTOR 28C2904 1530000200 TRANSISTOR 28C2904 1530000200 TRANSISTOR 28C2904 1530000200 TRANSISTOR 28C2904 1540000200 TRANSISTOR 28C2904 1540000200 TRANSISTOR 28C2904 1540000200 TRANSISTOR 28C2904 1540000710 VARISTOR MA29B VARISTOR VARISTOR MA29B VARISTOR REF.	ORDER		DESCRIPTION	
TRANSISTOR 2SC3133 1530000190 TRANSISTOR 2SC3133 1530000190 TRANSISTOR 2SC3133 1530000200 TRANSISTOR 2SC2904 1530000200 TRANSISTOR 2SC2904 1530000200 TRANSISTOR 2SC2904 1530000200 TRANSISTOR 2SC2904 174000010 174000010 TRANSISTOR 2SC2904 174000010 TRANSISTOR 2SC2904 174000010 TRANSISTOR 2SC2904 174000010 TRANSISTOR MA29B		NO.		DESCRIPTION
Case	Q1	1530000790	TRANSISTOR	2SC1971
04 1540000200 05 1530000200 06 1530000200 07 1520000060 08 1590000340 171 1790000710 17900000710 1790000710 1790000710 1790000710 1790000710 1790000710 1790000710 1790000710 1790000710 1790000710 1790000710 1790000710 1790000710 1790000710 1790000710 1790000710 1790000710 1790000710 17900000710 17900000710 17900000710 17900000710 17900000710 17900000710 179000000710 179000000710 179000000710 179000000710 179000000710 179000000710 179000000710 1790000000710 1790000000710 17900000000710 17900000000710 17900000000710 17900000000710 1790000000710 17900000000710 17900000000710 179000000000710 179000000000710 1790000000000		1530000190	TRANSISTOR	2SC3133
1530000200	Q3	1 1 1	TRANSISTOR	
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Dio	1	1790000710	VARISTOR	MA29B
Decoration De	D4	1710000010		
L1				
COIL BT01RN1-A61-001	D6	1710000030	DIODE	181555
COIL BT01RN1-A61-001				
L3				
L4			į	
L5 614000610 COIL LR-158 L7 6140002030 COIL LR-156 L7 6140002030 COIL LR-230 (SK-10M-15Y 120) L8 6180001230 COIL LAL 04NA 8R2K L9 6180001570 COIL LAL 04NA 8R2K L10 6810000670 COIL BT01RN1-A61-001 L11 6910000670 COIL BT01RN1-A61-001 L12 6180000800 COIL LAL 03NA 100K L13 6910000670 COIL BT01RN1-A61-001 L14 6910000670 COIL BT01RN1-A61-001 L15 6910000670 COIL BT01RN1-A61-001 L16 6910000670 COIL BT01RN1-A61-001 L17 6180000900 COIL BT01RN1-A61-001 L18 618000900 COIL LAL 03NA 101K L19 6110001670 COIL LAL 03NA 101K L19 6110001670 COIL LAL 03NA 101K L19 6110001670 COIL LAL 03NA 101K LR-253 R1 7010000310 RESISTOR ELR25J 330 Ω R2 7010000470 RESISTOR ELR25J 220 Ω R4 7010000310 RESISTOR ELR25J 470 Ω R5 701000430 RESISTOR ELR25J 470 Ω R6 7010004110 RESISTOR R050J 100 Ω R7 7010004720 RESISTOR R050J 100 Ω R8 7310003750 TRIMMER EVN-2ACA00 B52 (501) R9 7010000990 RESISTOR R25XJ 47 Ω R10 7010004730 RESISTOR R25XJ 47 Ω R11 7010004730 RESISTOR R25XJ 47 Ω R12 7010004730 RESISTOR R50XJ 100 Ω R13 701000450 RESISTOR RS0XJ 100 Ω R14 7080000650 RESISTOR RS0XJ 120 Ω R15 7080000650 RESISTOR RS0XJ 120 Ω R16 7080000650 RESISTOR RSS1P 3R3 Ω R17 7080000650 RESISTOR RSS1P 3R3 Ω R18 701000450 RESISTOR RSS1P 3R3 Ω R19 7310003240 RESISTOR RSS1P 3R3 Ω R21 7010004650 RESISTOR RSS1P 3R3 Ω R22 7080000650 RESISTOR RSS1P 3R3 Ω R23 7080000650 RESISTOR RSS1P 3R3 Ω R24 7070000520 RESISTOR RSS1P 3R3 Ω R25 7010000370 RESISTOR RSS1P 3R3 Ω R25 7010000370 RESISTOR RSS1P 3R3 Ω R26 7100000640 RESISTOR RSS1P 3R3 Ω R27 7010004650 RESISTOR RSS1P 3R3 Ω R28 7010004650 RESISTOR RSS1P 3R3 Ω R29 7010004650 RESISTOR RSS1P 3R3 Ω R29 7010004650 RESISTOR RSS1P 3R3 Ω R29 7010004650 RESISTOR RSS1P 3R3 Ω R20 7010004650 RESISTOR RSS1P 3R3 Ω R22 7080000650 RESISTOR RSS1P 3R3 Ω R23 708000650 RESISTOR RSS1P 3R3 Ω R24 7070000520 RESISTOR RSS1P 3R3 Ω R25 701000070 RESIS				
L6 6140001310 COIL LR-156 LR-230 (SK-10M-15Y 120) L8 6180001230 COIL LAL 04NA 8R2K L9 6180001570 COIL LAL 04NA 4R7K L10 6910000670 COIL BT01RN1-A61-001 L11 6910000670 COIL BT01RN1-A61-001 L12 6180000800 COIL BT01RN1-A61-001 L13 6910000670 COIL BT01RN1-A61-001 L14 6910000670 COIL BT01RN1-A61-001 L15 6910000670 COIL BT01RN1-A61-001 L16 6910000670 COIL BT01RN1-A61-001 L17 6180000900 COIL BT01RN1-A61-001 L18 618000900 COIL LAL 03NA 101K L19 6110001670 COIL LAL 03NA 101K L19 6110001670 COIL LAL 03NA 101K L19 6110001670 COIL LA-253 R1 7010000310 RESISTOR ELR25J 330 Ω RESISTOR RSSITOR RS				
17 6140002030 COIL LR-230 (SK-10M-15Y 120) L8 6180001370 COIL LAL 04NA 8R2K L10 6910000670 COIL BT01RN1-A61-001 L11 6910000670 COIL BT01RN1-A61-001 L12 618000880 COIL LAL 03NA 100K L13 6910000670 COIL BT01RN1-A61-001 L14 6910000670 COIL BT01RN1-A61-001 L15 6910000670 COIL BT01RN1-A61-001 L16 6910000670 COIL BT01RN1-A61-001 L17 618000900 COIL BT01RN1-A61-001 L18 618000900 COIL LAL 03NA 101K L19 6110001670 COIL LAL 03NA 101K L19 6110001670 COIL LAL 03NA 101K L19 6110001670 COIL LAL 03NA 101K R2 701000330 RESISTOR R25XJ 150 Ω R3 7010004830 RESISTOR R25XJ 150 Ω R6 7010004730 RESISTOR R20J 220 Ω R7 7010004730 RESISTOR R20J 220 Ω R8 7310003750 TRIMMER EVN-2ACA00 B52 (501) R9 701000990 RESISTOR R25XJ 47 Ω R11 7010004730 RESISTOR R50XJ 10 Ω R12 7010004730 RESISTOR R50XJ 10 Ω R13 7010004730 RESISTOR R50XJ 120 Ω R14 708000650 RESISTOR R50XJ 120 Ω R15 708000650 RESISTOR R50XJ 10 Ω R16 708000650 RESISTOR R50XJ 10 Ω R17 708000650 RESISTOR RS1P 3R3 Ω R18 7010004730 RESISTOR RS1P 3R3 Ω R19 7310003240 RESISTOR RS1P 3R3 Ω R19 7310003240 RESISTOR RS1P 3R3 Ω R21 7010004650 RESISTOR RS1P 3R3 Ω R22 708000650 RESISTOR RS1P 3R3 Ω R23 7010004650 RESISTOR RS1P 3R3 Ω				=
L9 8180001570 COIL LAL 04NA 4R7K L10 691000670 COIL BT01RN1-A61-001 L12 6180000800 COIL BT01RN1-A61-001 L13 6910000670 COIL BT01RN1-A61-001 L14 691000670 COIL BT01RN1-A61-001 L15 6910000670 COIL BT01RN1-A61-001 L16 6910000670 COIL BT01RN1-A61-001 L17 6180000900 COIL BT01RN1-A61-001 L18 618000900 COIL LAL 03NA 101K L18 618000900 COIL LAL 03NA 101K L19 6110001670 COIL LAL 03NA 101K L19 6110001670 COIL LAL 03NA 101K R2 701000330 RESISTOR R25XJ 150 Ω R3 701000430 RESISTOR ELR25J 470 Ω R6 7010004110 RESISTOR R50XJ 4.7 Ω R8 7310003750 RESISTOR R50XJ 1.00 Ω R8 7310003750 RESISTOR R25XJ 47 Ω R9 701000090 RESISTOR R25XJ 47 Ω R10 701000990 RESISTOR R25XJ 47 Ω R11 7010004730 RESISTOR R25XJ 47 Ω R12 7010004730 RESISTOR R50XJ 120 Ω R12 7010004730 RESISTOR R50XJ 120 Ω R13 7010004650 RESISTOR R50XJ 120 Ω R14 7080000650 RESISTOR R50XJ 120 Ω R15 7080000650 RESISTOR RSS1P 3R3 Ω R16 708000650 RESISTOR RSS1P 3R3 Ω R17 7080000650 RESISTOR RSS1P 3R3 Ω R18 7010004850 RESISTOR RSS1P 3R3 Ω R19 7310003240 RESISTOR RSS1P 3R3 Ω R19 7310003240 RESISTOR RSS1P 3R3 Ω R19 7310003240 RESISTOR RSS1P 3R3 Ω R20 7010004650 RESISTOR RSS1P 3R3 Ω R21 7010004650 RESISTOR RSS1P 3R3 Ω R22 7080000650 RESISTOR RSS1P 3R3 Ω R23 7080000650 RESISTOR RSS1P 3R3 Ω RSSISTOR RSS1P				LR-230 (SK-10M-15Y 120)
COIL BT01RN1-A61-001	L8			
L11	L9	l	1	
L12 6180000880		*********		
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R33 7010003610 RESISTOR ELR20J 39 kΩ	1			
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C1 4010000520 CERAMIC DD108 B 472K 50V			1	
C2 4010000510 CERAMIC DD106 B 222K 50V			1	
C3 4040000250 BARRIERLAYER UAT 08X 473M	C3	4040000250	BARRIERLAYE	R UAT 08X 473M

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REF. NO.	ORDER NO.	D	ESCRIPTION
C4	4040000250	BARRIERLAYER U	IAT 08X 473M
C5	4040000250	BARRIERLAYER U	
C6	4040000250	BARRIERLAYER U	
C7	4310000610		0 F2D 472J
C8 C9	4310000610 4010000380		0 F2D 472J 0D107 SL 221J 50V
C10	4040000350	BARRIERLAYER	
C11	4010000500		D104 B 102K 50V
C12	4030001370	S.CERAMIC G	GR44 CH 682K
C13	4030001370		GR44 CH 682K
C14 C15	4040000250 4040000250	BARRIERLAYER L	
C16	4510003880	ELECTROLITIC 1	
C17	4030001340	S.CERAMIC G	R44 CH 102K
C18	4010000420		D108 SL 391J 50V
C19	4010004070	-	DD12 SL 221K 500V (D19C 681J5
C20 C21	4320000680 4030001340		GR44 CH 102K
C22	4010004070		DD12 SL 221K 500V
C23	4510003910	ELECTROLITIC 1	
C24	4010000520		D108 B 472K 50V
C25	4510004600 4040000260	ELECTROLITIC 1 BARRIERLAYER L	
C26 C27	4040000260	_ ·	DD107 SL 221J 50V
C28	4040000250	BARRIERLAYER	
C29	4510004600	ELECTROLITIC 1	
C30	4040000250	BARRIERLAYER L	
C31	4040000260	BARRIERLAYER L	DD107 SL 221J 50V
C32 C33	4010000380 4010000520		DD107 SE 2213 30V DD108 B 472K 50V
C34	4510003790		6 MV 10 SW
C35	4010000520		DD108 B 472K 50V
C36	4510005000		6 MV 220 HC
C37 C38	4040000250 4010000520	BARRIERLAYER L	DD108 B 472K 50V
C39	4010000520		DD108 B 472K 50V
C40	4030001340		GR44 CH 102K
C41	4510003910		6 MV 47 HW
C42	4010000520		DD108 B 472K 50V
C43 C44	4010000520 4010000520		DD108 B 472K 50V DD108 B 472K 50V
044	401000000		
F1	5210000130	FUSE F	GB 4A
F2	5220000020		S-N5051
F3	5220000020	HOLDER S	S-N5051
W6	7120000020	JUMPER J	IPW 02H
J2	6510013150	CONNECTOR S	SB3P-HVQ-B
J4	8510008790	CONNECTOR	TSL-P03P-V2
J5	6510006790	+	ISL-P03P-V2
J6	6510006790 6510006790		TSL-P03P-V2 TSL-P03P-V2
J7 J9	6510003080		RT01T-1.0B
J10	6510003080		RT01T-1.0B
J11	6510003390	CONNECTOR I	B03B-EH-S
S1	6910000060	THERMAL (OHD-3 90M
EP1	6910000600	BEAD I	FSOH050RN
EP2	6910000600		FSOH050RN
EP3	6910000600		FSOH050RN
EP4	6910000600		FSOH050RN
EP5 EP6	6910000600 6910000600		FSOH050RN FSOH050RN
EP13	0910035731		B 3370A
EP15	6910000600	I	FSOH050RN
EP16	6910000600		FSOH050RN
EP20 EP21	6910000630		FSOH070RN FSOH070RN
	35.555555		,

[FILTER UNIT]

1	LIFIEW	Olding		
	REF. NO.	ORDER NO.		DESCRIPTION
	D1 D2 D3 D4 D5 D6 D7 D8 D10	179000070 179000070 1710000030 171000030 171000030 171000030 171000030 171000030 179000070	DIODE	1SS237 1SS237 1S1555 1S1555 1S1555 1S1555 1S1555 1S1555 1S1555
	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24 L27 L28	6140001990 6140002000 6140001780 6140001790 6140001800 6140001810 6140002010 6140001810 6140002020 6110001490 6110001500 6180000900	COIL COIL COIL COIL COIL COIL COIL COIL	LR-226 LR-227 LR-214 LR-215 LR-216 LR-216 LR-228 LR-217 LR-227 LR-217 LR-229 LA-198 LA-197 LAL 03NA 101K LAL 03NA 100K LR-163
	R1 R2 R3 R4 R6 R7	7010004020 7010004320 7010003530 7010003620 7010003530 7010003660	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	R20J 39 Ω R20J 10 kΩ ELR20J 10 kΩ ELR20J 47 kΩ ELR20J 10 kΩ ELR20J 100 kΩ
	C1 C2 C3 C5 C6 C7 C8 C9 C10 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C28 C29 C30 C31 C32 C33	432000290 401004040 4010004100 4010004030 432000290 4010004070 4010004080 4010004080 4010004080 4010004080	DIP MICA CERAMIC	DM20C 152J5 DD10 SL 151K 500V DD14 SL 331K 500V DD10 SL 121K 500V DM20C 152J5 DD12 SL 221K 500V DD12 SL 271K 500V DD12 SL 271K 500V DD12 SL 221K 500V DD12 SL 21K 500V DD12 SL 21K 500V DD12 SL 21K 500V DD12 SL 181K 500V DD12 SL 181K 500V DD09 SL 111K 500V DD09 SL 820K 500V DD08 SL 070D 500V

[FILTER UNIT]

REF. ORDER NO. NO.	D	ESCRIPTION
C34 4010004070 C	CERAMIC I	DD12 SL 221K 500V
I I		DD06 SL 330K 500V
		DD09 SL 101K 500V
		DD09 SL 680K 500V
1		DD06 SL 390K 500V
		DD10 SL 151K 500V
1		DD06 SL 120K 500V
		DD09 SL 680K 500V
	BARRIERLAYER	UAT 08X 473M
	BARRIERLAYER I	UAT 08X 473M
	BARRIERLAYER	UAT 08X 473M
C45 4040000250 E	BARRIERLAYER (UAT 08X 473M
C46 4040000250 E	BARRIERLAYER (UAT 08X 473M
C47 4040000250 E	BARRIERLAYER I	UAT 08X 473M
C48 4010000520 C	CERAMIC (DD108 B 472K 50V
C49 4010000520 C		DD108 B 472K 50V
C50 4010000520 C		DD108 B 472K 50V
		DD108 B 472K 50V
•••		DD108 B 472K 50V
		DD108 B 472K 50V
		CVSSC2001
1		DD107 SL 331J 50V
		DD107 SL 331J 50V
		DD109 SL 471J 50V
		DD109 SL 471J 50V DD06 SL 390K 500V
1		DD10 SL 121K 500V
••• •••••		DD10 3E 121K 300V
		DD14 SL 301K 500V
		DD14 SL 301K 500V
•		DD14 SL 301K 500V
		DD14 SL 301K 500V
1		DD12 SL 221K 500V
		DD12 SL 621K 500V
		DD12 SL 621K 500V
	CERAMIC I	DD12 SL 621K 500V
C76 4010005290 C	CERAMIC I	DD12 SL 621K 500V
1		
		MZ-12HG
}		MZ-12HG
		MZ-12HG MZ-12HG
1		MZ-12HG MZ-12HG
		MZ-12HG
	· '	
W7 7120000010 3	JUMPER .	JPW 02A
W19 7120000010 .	JUMPER .	JPW 02A
J2 6510007020 (CONNECTOR	TMP-J01X-V6
En.	DCB I	B 2918B
		FSOH070RN
LF2 081000030 1	טבאט	, 55, 10, 10, 11, 11

[TUNER PARTS]

REF. NO.	ORDER NO.	DESCRIPTION	
C1	404000250	BARRIERLAYER UAT 08X 473M	
C2	404000250	BARRIERLAYER UAT 08X 473M	

[TUNE UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
D1	1710000030	DIODE	1S1555
D2	1710000030	DIODE	1S1555
D3	1710000030	DIODE	1S1555
D3	1710000030	DIODE	1S1555
D5	1710000030	DIODE	1S1555
D6	1710000030	DIODE	1S1555
20	17.1000000	5.002	101000
L1	6110001220	COIL	LA-162
L2	6140002400	COIL	LR-269
L3	6140002390	COIL	LR-268
L4	6140001710	COIL	LR-187
C1	4620000100	VARIABLE	UV44B 300PF
C2	4620000100	VARIABLE	UV448 300PF
		1	
		DE1.434	0.15.011.440014
RL1	6330000640	RELAY	OJE-SH-112DM
RL2	6330000640	RELAY	OJE-SH-112DM
RL3	6330000640	RELAY	OJE-SH-112DM
RL4	6330000640	RELAY	OJE-SH-112DM
RL5	6330000640	RELAY	OJE-SH-112DM OJE-SH-112DM
RL6	6330000640	DELAT	OJE-SH-112DM
EP1	0910033693	РСВ	B 3386C
EP2	5610000060	TERMINAL	P-423
	33,000000		

[CTRL UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
IC1	1110000960	s.ic	NJM4558M(T1)
IC3	1120002251	S.IC	TC74ACT32F(TP1)
IC5	1120002241	S.IC	TC74AC112F(TP1)
IC6	1110002680	S.IC	NJM2902M-T1
IC7	1130001910	S.IC	μPD4011BG-T1
IC8	1130001910	S.IC	μPD4011BG-T1
IC9	1110001791	IC	TA7279P
IC10	1140000980	IC	μPD7533C-077
IC12	1120000970	IC	M54562P
IC13	1130006560	S.IC	μPD4063BG-T1
IC14	1130002660	S.IC	μPD4030BG-T1
IC16	1130004500	S.IC	TC4S11F (TE85R)
IC17	1180000620	IC	TA78L05S
IC18	1110000960	S.IC	NJM4558M(T1)
Q1	1560000620	FET	2SK937
Q2	1560000620	FET	2SK937
Q3	1590000460	S.TRANSISTOR	RN1402 (TE85R)
Q4	1560000040	FET	2SK30ATM-Y
Q5	1590000460	S.TRANSISTOR	RN1402 (TE85R)
Q7	1590000480	S.TRANSISTOR	RN2402 (TE85R)
Q8	1590000460		RN1402 (TE85R)
Q9	1590000480		RN2402 (TE85R)
Q10	1590000460		RN1402 (TE85R)
Q11	1590000460		RN1402 (TE85R)
Q12	1520000080	TRANSISTOR	2SB909M R
Q13	1530001950		2SC2712-GR (TE85R)
Q19	1510000500		2SA1162-GR (TE85R)
Q22	1510000500		2SA1162-GR (TE85R)
Q23	1530001950		2SC2712-GR (TE85R)
Q25	1530002020	S.TRANSISTOR	
Q26	1530002020	S.TRANSISTOR	
Q34	1590000460		RN1402 (TE85R)
Q35	1590000460		RN1402 (TE85R)
Q39	1530002550		2SC3326-B (TE85R)
Q40	1590000480		RN2402 (TE85R)
Q41	1590000410		RN2404 (TE85R)
Q42	1590000480		RN2402 (TE85R)
Q43	1590000460		RN1402 (TE85R)
Q44	1590000480	S.TRANSISTOR	RN2402 (TE85R)
	Į		

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CIRL	נוואכ		
REF. NO.	ORDER NO.		DESCRIPTION
110.	140.		
Q45	1590000460		RN1402 (TE85R)
Q46	1590000420	S.TRANSISTOR	RN1404 (TE85R)
D1	1790000070	DIODE	1SS237
D2	1790000070	DIODE	1SS237
D6	1790000240	DIODE	1SS99
D7 D8	1790000240 1790000070	DIODE	1SS99 1SS237
D9	1790000070	DIODE	1SS237
D10	1750000220	S.DIODE	DA113W T107
D11 D12	1710000030 1750000220	DIODE S.DIODE	1S1555 DA113W T107
D12	1750000220	S.DIODE	DA113W T107
D14	1160000060	S.DIODE	DAN202U T107
D16	1710000030	DIODE	1S1555
D17 D18	1730000410 1730000410	S.ZENER S.ZENER	RD5.1M-T2B2 RD5.1M-T2B2
D19	1750000220	S.DIODE	DA113W T107
D20	1160000050	S.DIODE	DAP202U T107
D21	1160000050	S.DIODE	DAP202U T107
D22 D24	1750000220 1160000050	S.DIODE S.DIODE	DA113W T107 DAP202U T107
D27	1750000220	S.DIODE	DA113W T107
D28	1160000050	S.DIODE	DAP202U T107
D30	1750000220	S.DIODE	DA113W T107
D31 D34	1730000730 1710000040	S.ZENER DIODE	RD6.2M-T2B2 1S953
D35	1710000030	DIODE	1S1555
D36	1160000050	S.DIODE	DAP202U T107
D39	1710000030	DIODE	1S1555 1S1555
D40 D41	1710000030 1160000050	DIODE S.DIODE	DAP202U T107
D42	1160000050	S.DIODE	DAP202U T107
D43	1180000050	S.DIODE	DAP202U T107
D44 D45	1160000060 1750000220	S.DIODE S.DIODE	DAN202U T107 DA113W T107
D43	1750000220	S.DIODE	DA113W T107
D48	1790000070	DIODE	188237
D49	1790000070	DIODE	1SS237
D50 D51	1730000410 1750000220	S.ZENER S.DIODE	RD5.1M-T2B2 DA113W T107
D51	1160000080	S.DIODE	DAN202U T107
D53	1160000060	S.DIODE	DAN202U T107
D54	1160000050	S.DIODE	DAP202U T107
D55 D56	1160000050 1160000050	S.DIODE S.DIODE	DAP202U T107 DAP202U T107
D57	1160000050	S.DIODE	DAP202U T107
D58	1180000050	S.DIODE	DAP202U T107
D59 D60	1160000060 1160000060	S.DIODE S.DIODE	DAN202U T107 DAN202U T107
D60 D61	1160000050	S.DIODE S.DIODE	DAP202U T107
		0554440	0005005
X1	6060000160	CERAMIC	CSB500E
L1	6140000100	COIL	LR-22A
L2	6180000450	COIL	RFC L6 222K
L3 L4	6200003260 6200003260	S.COIL S.COIL	NL 322522T-101J NL 322522T-101J
L5	6200003260	S.COIL	NL 322522T-101J
L7	6180000990	COIL	LAL 04NA 101K
L8	6200003260	S.COIL	NL 322522T-101J
L9 L10	6200003260 6140000090	S.COIL COIL	NL 322522T-101J LR-21
L12	6140000090	COIL	LR-21
L13	6180000450	COIL	RFC L6 222K
L15	8200003260	S.COIL	NL 322522T-101J NL 322522T-101J
L16 L17	6200003260 6200003260	S.COIL S.COIL	NL 3225221-101J NL 322522T-101J
L18	6910000670	COIL	BT01RN1-A61-001
L20	6180000900	COIL	LAL 03NA 101K
L21 L22	6200003260 6200003260	S.COIL S.COIL	NL 322522T-101J NL 322522T-101J
L22 L23	6200003260	S.COIL	NL 322522T-101J
			•
	<u> </u>		S –Surface mount

[CTRL UNIT]

[CTRL UNIT]

REF.	ORDER NO.		DESCRIPTION
L24 L25	6200003260 6200003260	S.COIL S.COIL	NL 322522T-101J NL 322522T-101J
R1	7030001110	S.RESISTOR	MCR50JZHJ 68 Ω (680)
R2	7030000500	S.RESISTOR	MCR10EZHJ 10 kΩ (103)
R3	7030000500 7030000580	S.RESISTOR S.RESISTOR	MCR10EZHJ 10 kΩ (103) MCR10EZHJ 47 kΩ (473)
R4 R5	7030000380	S.RESISTOR	MCR10EZHJ 100 kΩ (104)
R6	7030000660	S.RESISTOR	MCR10EZHJ 220 kΩ (224)
R7 R8	7030000660 7030000640	S.RESISTOR S.RESISTOR	MCR10EZHJ 220 kΩ (224) MCR10EZHJ 150 kΩ (154)
R9	7030000620	S.RESISTOR	MCR10EZHJ 100 kΩ (104)
R10 R11	7030000660 7030000260	S.RESISTOR S.RESISTOR	MCR10EZHJ 220 kΩ (224) MCR10EZHJ 100 Ω (101)
R16	7030000200	S.RESISTOR	MCR10EZHJ 47 kΩ (473)
R17	7030000660	S.RESISTOR	MCR10EZHJ 220 kΩ (224)
R18 R19	7030000700 7030000260	S.RESISTOR S.RESISTOR	MCR10EZHJ 470 kΩ (474) MCR10EZHJ 100 Ω (101)
R20	7030000620	S.RESISTOR	MCR10EZHJ 100 kΩ (104)
R21 R22	7030000360 7030000560	S.RESISTOR S.RESISTOR	MCR10EZHJ 680 Ω (681) MCR10EZHJ 33 kΩ (333)
R23	7030000340	S.RESISTOR	MCR10EZHJ 470 Ω (471)
R24 R25	7310003170 7030000460	TRIMMER S.RESISTOR	EVN-2ACA00 B53 (502) MCR10EZHJ 4.7 kΩ (472)
R26	7030000460	S.RESISTOR	MCR10EZHJ 100 Ω (101)
R27	7310003710	TRIMMER	EVN-2ACA00 B33 (302)
R29 R30	7030000500 7030000460	S.RESISTOR S.RESISTOR	MCR10EZHJ 10 kΩ (103) MCR10EZHJ 4.7 kΩ (472)
R31	7030000260	S.RESISTOR	MCR10EZHJ 100 Ω (101)
R32	7010004410	RESISTOR	R20J 47 kΩ R50XJ 470 Ω
R33 R34	7010004780 7010004780	RESISTOR RESISTOR	R50XJ 470 Ω
R35	7010001360	RESISTOR	R25XJ 47 kΩ
R36 R37	7030001070 7030000620	S.RESISTOR S.RESISTOR	MCR50JZHJ 33 Ω (330) MCR10EZHJ 100 kΩ (104)
R38	7030000560	S.RESISTOR	MCR10EZHJ 33 kΩ (333)
R39 R40	7030000340 7030000420	S.RESISTOR S.RESISTOR	MCR10EZHJ 470 Ω (471) MCR10EZHJ 2.2 kΩ (222)
R42	7030000420	S.RESISTOR	MCR50JZHJ 33 Ω (330)
R43	7030000500	S.RESISTOR	MCR10EZHJ 10 kΩ (103)
R44 R45	7030000740 7030000500	S.RESISTOR S.RESISTOR	MCR10EZHJ 1 M Ω (105) ·MCR10EZHJ 10 kΩ (103)
R46	7030000500	S.RESISTOR	MCR10EZHJ 10 kΩ (103)
R47 R48	7030000460 7030000380	S.RESISTOR S.RESISTOR	MCR10EZHJ 4.7 kΩ (472) MCR10EZHJ 1 kΩ (102)
R49	7030000420	S.RESISTOR	MCR10EZHJ 2.2 kΩ (222)
R50 R51	7030002960 7310003200	S.RESISTOR TRIMMER	MCR10EZHFX 100 kΩ (104) EVN-2ACA00 B14 (103)
R52	7030003060	S.RESISTOR	MCR10EZHFX 680 kΩ (684)
R53	7030000620	S.RESISTOR	MCR10EZHJ 100 kΩ (104)
R54 R55	7010004450 7030000720	RESISTOR S.RESISTOR	R20J 100 kΩ MCR10EZHJ 680 kΩ (684)
R56	7030000720	S.RESISTOR	MCR10EZHJ 680 kΩ (684)
R57 R59	7030000580 7030000500	S.RESISTOR S.RESISTOR	MCR10EZHJ 47 kΩ (473) MCR10EZHJ 10 kΩ (103)
R60	7030002960	S.RESISTOR	MCR10EZHFX 100 kΩ (104)
R61 R62	7310003200 7030003060	TRIMMER S.RESISTOR	EVN-2ACA00 B14 (103) MCR10EZHFX 680 kΩ (684)
R63	7030003000	S.RESISTOR	MCR10EZHJ 100 kΩ (104)
R64	7010004450	RESISTOR	R20J 100 kΩ
R66 R67	7030000660 7030000590	S.RESISTOR S.RESISTOR	MCR10EZHJ 220 kΩ (224) MCR10EZHJ 58 kΩ (583)
R68	7030000590	S.RESISTOR	MCR10EZHJ 56 kΩ (563)
R69 R70	7030000380 7030000500	S.RESISTOR S.RESISTOR	MCR10EZHJ 1 kΩ (102) MCR10EZHJ 10 kΩ (103)
R76	7030000580	S.RESISTOR	MCR10EZHJ 47 kΩ (473)
R77	7030000580	S.RESISTOR	MCR10EZHJ 47 kΩ (473) MCR10EZHJ 1 kΩ (102)
R79 R84	7030000380 7030000580	S.RESISTOR S.RESISTOR	MCR10EZHJ 1 kΩ (102) MCR10EZHJ 47 kΩ (473)
R85	7030000580	S.RESISTOR	MCR10EZHJ 47 kΩ (473)
R87 R88	7030000580 7030000580	S.RESISTOR S.RESISTOR	MCR10EZHJ 47 kΩ (473) MCR10EZHJ 47 kΩ (473)
R91	7030000460	S.RESISTOR	MCR10EZHJ 4.7 kΩ (472)
R93 R95	7030000460 7030000590	S.RESISTOR S.RESISTOR	MCR10EZHJ 4.7 kΩ (472) MCR10EZHJ 58 kΩ (563)
''''	. 50000000	J. 1120101011	

REF.	ORDER		DESCRIPTION
NO.	NO.		
R96	7030000420	S.RESISTOR	MCR10EZHJ 2.2 kΩ (222)
R97	7030000580	S.RESISTOR	MCR10EZHJ 47 kΩ (473)
R98	7030000460	S.RESISTOR	MCR10EZHJ 4.7 kΩ (472)
R99 R100	7030000500 7510000310	S.RESISTOR THERMISTOR	MCR10EZHJ 10 kΩ (103) ERT-D2ZHL 802S
R101	7030000580	S.RESISTOR	MCR10EZHJ 47 kΩ (473)
R102	7030000580	S.RESISTOR	MCR10EZHJ 47 kΩ (473)
R105	7030000360	S.RESISTOR	MCR10EZHJ 680 Ω (681)
R120 R121	7030000580 7030000580	S.RESISTOR S.RESISTOR	MCR10EZHJ 47 kΩ (473) MCR10EZHJ 47 kΩ (473)
R122	7030000580	S.RESISTOR	MCR10EZHJ 47 kΩ (473)
R123	7030000500	S.RESISTOR	MCR10EZHJ 10 kΩ (103)
R124	7030000300	S.RESISTOR	MCR10EZHJ 220 Ω (221)
R125 R133	7030000460 7030000580	S.RESISTOR S.RESISTOR	MCR10EZHJ 4.7 kΩ (472) MCR10EZHJ 47 kΩ (473)
R134	7030000580	S.RESISTOR	MCR10EZHJ 47 kΩ (473)
R135	7030000580	S.RESISTOR	MCR10EZHJ 47 kΩ (473)
R136	7030000580	S.RESISTOR	MCR10EZHJ 47 kΩ (473)
R137 R138	7030000580 7030000580	S.RESISTOR S.RESISTOR	MCR10EZHJ 47 kΩ (473) MCR10EZHJ 47 kΩ (473)
R139	7030000580	S.RESISTOR	MCR10EZHJ 47 kΩ (473)
R141	7030000220	S.RESISTOR	MCR10EZHJ 47 Ω (470)
R142	7030000220	S.RESISTOR	MCR10EZHJ 47 Ω (470)
R143 R144	7030000580 7030000500	S.RESISTOR S.RESISTOR	MCR10EZHJ 47 kΩ (473) MCR10EZHJ 10 kΩ (103)
R144	7030000500	S.RESISTOR	MCR10EZHJ 10 kΩ (103)
R146	7030000380	S.RESISTOR	MCR10EZHJ 1 kΩ (102)
R150	7030000380	S.RESISTOR	MCR10EZHJ 1 kΩ (102)
R151	7010001150	RESISTOR	R25XJ 1 kΩ
R152 R153	7030000380 7030000380	S.RESISTOR S.RESISTOR	MCR10EZHJ 1 kΩ (102) MCR10EZHJ 1 kΩ (102)
R154	7030000380	S.RESISTOR	MCR10EZHJ 1 kΩ (102)
R155	7030000380	S.RESISTOR	MCR10EZHJ 1 kΩ (102)
R156	7030000380	S.RESISTOR	MCR10EZHJ 1 kΩ (102)
R157 R158	7030000380 7030000380	S.RESISTOR S.RESISTOR	MCR10EZHJ 1 kΩ (102) MCR10EZHJ 1 kΩ (102)
R159	7030000380	S.RESISTOR	MCR10EZHJ 1 kΩ (102)
R160	7030000220	S.RESISTOR	MCR10EZHJ 47 Ω (470)
R161	7030000210	S.RESISTOR	MCR10EZHJ 39 Ω (390)
R162 R163	7010004680 7030000660	RESISTOR S.RESISTOR	R50XJ 33 Ω MCR10EZHJ 220 kΩ (224)
R164	7030000440	S.RESISTOR	MCR10EZHJ 3.3 kΩ (332)
R166	7030000680	S.RESISTOR	MCR10EZHJ 330 kΩ (334)
R167	7030000700	S.RESISTOR	MCR10EZHJ 470 kΩ (474)
R168 R170	7030000680 7030000700	S.RESISTOR S.RESISTOR	MCR10EZHJ 330 kΩ (334) MCR10EZHJ 470 kΩ (474)
R171	7030003890	S.RESISTOR	MCR10EZHFX 1 M Ω (105)
R172	7030004640	S.RESISTOR	MCR10EZHFX 432 kΩ
R173	7030000220	S.RESISTOR	MCR10EZHJ 47 Ω (470)
R174 R175	7030000220 7030000460	S.RESISTOR S.RESISTOR	MCR10EZHJ 47 Ω (470) MCR10EZHJ 4.7 kΩ (472)
R176	7030000400	S.RESISTOR	MCR10EZHJ 10 kΩ (103)
R177	7030000560	S.RESISTOR	MCR10EZHJ 33 kΩ (333)
R178	7030000620	S.RESISTOR	MCR10EZHJ 100 kΩ (104)
C1	4030004630	S.CERAMIC	C2012 SL 1H 151J-T-A
C2	4030004720	S.CERAMIC	C2012 JB 1H 102K-T-A
C11	4610001120	TRIMMER	CVSSC2001
C12 C13	4030004720 4510003790	S.CERAMIC ELECTROLITIC	C2012 JB 1H 102K-T-A 16 MV 10 SW
C14	4510003790	ELECTROLITIC	16 MV 10 SW
C15	4030005110	S.CERAMIC	C2012 JB 1E 473K-T-A
C16	4030005110	S.CERAMIC	C2012 JB 1E 473K-T-A
C17 C18	4610001000 4010004000	TRIMMER CERAMIC	CVSSA0701 DD09 SL 820K 500V
C19	4030004750	S.CERAMIC	C2012 JB 1H 103K-T-A
C20	4030004750	S.CERAMIC	C2012 JB 1H 103K-T-A
C21	4510004990	ELECTROLITIC	16 MV 100 HC
C22	4030004660	S.CERAMIC	C2012 SL 1H 221J-T-A
C23 C24	4030004760 4510003910	S.CERAMIC ELECTROLITIC	C2012 JF 1E 104Z-T-A 16 MV 47 HW
C25	4030005110	S.CERAMIC	C2012 JB 1E 473K-T-A
C26	4030004740	S.CERAMIC	C2012 JB 1H 472K-T-A
C27	4510003790		
C29	4030004760	S.CERAMIC	C2012 JF 1E 104Z-T-A

[CTRL UNIT]

ORDER REF. DESCRIPTION NO. NO. S.CERAMIC C2012 JF 1E 104Z-T-A C30 4030004760 4030004750 S.CERAMIC C2012 JB 1H 103K-T-A C31 C2012 JB 1H 103K-T-A 4030004750 S.CERAMIC C32 C2012 SL 1H 221J-T-A S.CERAMIC C33 4030004660 S.CERAMIC C2012 JB 1H 472K-T-A C34 4030004740 4010003800 CERAMIC DD06 SL 030C 500V C36 S.CERAMIC C2012 SL 1H 560J-T-A C37 4030004580 4610000480 TRIMMER BW 3P 210P C38 S.CERAMIC C2012 JB 1H 472K-T-A C39 4030004740 S CERAMIC C2012 JB 1H 472K-T-A C40 4030004740 C41 4030004720 S.CERAMIC C2012 JB 1H 102K-T-A 4030004740 S.CERAMIC C2012 JB 1H 472K-T-A C42 4030004740 S.CERAMIC C2012 JB 1H 472K-T-A C43 C2012 JB 1E 473K-T-A 4030005110 S.CERAMIC C44 C2012 SL 1H 221J-T-A 4030004660 S.CERAMIC C45 S CERAMIC C2012 JB 1H 471K-T-A C46 4030004710 4030005110 S.CERAMIC C2012 JB 1E 473K-T-A C47 C49 4030004760 S.CERAMIC C2012 JF 1E 104Z-T-A 4030004760 S.CERAMIC C2012 JF 1E 104Z-T-A C50 C2012 JB 1E 473K-T-A C51 4030005110 S.CERAMIC C2012 JB 1E 473K-T-A S.CERAMIC C52 4030005110 S.CERAMIC C53 4030005110 C2012 JB 1E 473K-T-A C54 4030004660 S.CERAMIC C2012 SL 1H 221J-T-A C2012 JB 1H 471K-T-A 4030004710 S.CERAMIC C55 4030004740 S.CERAMIC C2012 JB 1H 472K-T-A C56 C2012 JB 1H 472K-T-A S.CERAMIC C57 4030004740 ELECTROLITIC 16 MV 220 HC C58 4510005000 C59 4030004740 S.CERAMIC C2012 JB 1H 472K-T-A S.CERAMIC C2012 JB 1E 473K-T-A C60 4030005110 4510003850 **ELECTROLITIC 50 MV 2R2 SW** C61 4510003850 **ELECTROLITIC 50 MV 2R2 SW** C62 C2012 SL 1H 221J-T-A 4030004660 S.CERAMIC C63 C2012 SL 1H 221J-T-A C64 4030004660 S.CERAMIC 4030005110 S.CERAMIC C2012 JB 1E 473K-T-A C67 4510004990 **ELECTROLITIC 16 MV 100 HC** C68 C2012 JB 1H 472K-T-A C69 4030004740 S.CERAMIC 4030004760 S.CERAMIC C2012 JF 1E 104Z-T-A C75 C2012 JB 1H 472K-T-A 4030004740 S.CERAMIC C76 C2012 JF 1E 104Z-T-A C77 4030004760 S.CERAMIC C2012 JB 1E 473K-T-A C80 4030005110 S.CERAMIC C81 4030005110 S.CERAMIC C2012 JB 1E 473K-T-A 4030004760 S.CERAMIC C2012 JF 1E 104Z-T-A C83 C2012 JF 1E 104Z-T-A S.CERAMIC 4030004760 C84 C2012 JF 1E 104Z-T-A S.CERAMIC C85 4030004760 C2012 JF 1E 104Z-T-A C86 4030004760 S.CERAMIC C87 4030004760 S.CERAMIC C2012 JF 1E 104Z-T-A C88 4010004010 CERAMIC DD09 SL 101K 500V S.CERAMIC C2012 JF 1E 104Z-T-A 4030004760 C89 C2012 JF 1E 104Z-T-A 4030004760 S.CERAMIC C90 C2012 JF 1E 104Z-T-A 4030004760 S.CERAMIC C91 C2012 JF 1E 104Z-T-A S.CERAMIC C92 4030004760 C2012 JF 1E 104Z-T-A C93 4030004760 S.CERAMIC S.CERAMIC C2012 JB 1H 102K-T-A C94 4030004720 C2012 JF 1E 104Z-T-A 4030004760 S.CERAMIC C95 C2012 JB 1H 102K-T-A S.CERAMIC C96 4030004720 C2012 JB 1H 102K-T-A 4030004720 S.CERAMIC C97 C2012 JF 1E 104Z-T-A C98 4030004760 S.CERAMIC C2012 JF 1E 104Z-T-A 4030004760 S.CERAMIC C99 C2012 JF 1E 104Z-T-A 4030004760 S.CERAMIC C100 C2012 JF 1E 104Z-T-A 4030004760 S.CERAMIC C101 4030004760 S.CERAMIC C2012 JF 1E 104Z-T-A C102 C2012 JF 1E 104Z-T-A S.CERAMIC C103 4030004760 C2012 JF 1E 104Z-T-A C109 4030004760 S CERAMIC 4010003860 CERAMIC DD06 SL 100D 500V C110 **ELECTROLITIC 16 MV 10 SW** 4510003790 C111 4030004740 S.CERAMIC C2012 JB 1H 472K-T-A C112 **ELECTROLITIC 16 MV 100 HC** 4510004990 C113 C2012 JB 1H 472K-T-A C114 4030004740 S.CERAMIC **ELECTROLITIC 16 MV 10 SWNP** C115 4510004910 S.CERAMIC C2012 JF 1E 104Z-T-A C120 4030004760 S.CERAMIC C2012 JF 1E 104Z-T-A C121 4030004760 S.CERAMIC C2012 JF 1E 104Z-T-A 4030004760 C122 S.CERAMIC C2012 JF 1E 104Z-T-A 4030004760 C123 S CERAMIC C2012 JF 1E 104Z-T-A C124 4030004760 S.CERAMIC 4030004760 C2012 JF 1E 104Z-T-A C125 S.CERAMIC C2012 JF 1E 104Z-T-A C126 4030004760

ICTRL UNIT

NO. NO. S.CERAMIC C2012 JF 1E 104Z-T-A	
C128	
C129	
C130	
C131	
C132	
C133	
C134	
C135	
C136	
C137	
C138	
C139	
C140	
C141	
C142	
C143	
C144	
C145 4510003840 ELECTROLITIC 50 MV 1 SW RL1 6330000890 RELAY FX-12 RL2 6330000890 RELAY FX-12 RL3 6330000830 RELAY JY-12H-K-DW BT1 3020000020 LITHIUM BR2032-1T2 W1 7120000010 JUMPER JPW 02A W2 7120000010 JUMPER JPW 02A W4 7120000010 JUMPER JPW 02A W4 7120000010 JUMPER JPW 02A W6 7120000010 JUMPER JPW 02A W8 7120000010 JUMPER JPW 02A W8 7120000010 JUMPER JPW 02A W25 7120000010 JUMPER JPW 02A W26 7120000010 JUMPER JPW 02A W27 7120000010 JUMPER JPW 02A W28 7120000010 JUMPER JPW 02A W29 7120000010 JUMPER JPW 02A W29 7120000010 JUMPER JPW 02A W29 7120000010 JUMPER JPW 02A	
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RL2 6330000890 RELAY FX-12 RELAY BT-12 8330000830 RELAY JY-12H-K-DW BT1 3020000020 LITHIUM BR2032-1T2 W1 7120000010 JUMPER JPW 02A JUMPER JPW 02H	
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RL3 6330000830 RELAY JY-12H-K-DW BT1 3020000020 LITHIUM BR2032-1T2 W1 7120000010 JUMPER JPW 02A W2 7120000010 JUMPER JPW 02A W3 7120000010 JUMPER JPW 02A W4 7120000010 JUMPER JPW 02A W6 7120000010 JUMPER JPW 02A W25 7120000010 JUMPER JPW 02A W26 7120000020 JUMPER JPW 02A W27 7120000010 JUMPER JPW 02A W28 7120000020 JUMPER JPW 02A	
BT1 3020000020 LITHIUM BR2032-1T2 W1 7120000010 JUMPER JPW 02A W2 7120000010 JUMPER JPW 02A W3 7120000010 JUMPER JPW 02A W4 7120000010 JUMPER JPW 02A W6 7120000010 JUMPER JPW 02A W25 7120000010 JUMPER JPW 02A W26 7120000020 JUMPER JPW 02A W27 7120000010 JUMPER JPW 02A W28 7120000020 JUMPER JPW 02A	
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W4 7120000010 JUMPER JPW 02A W6 7120000010 JUMPER JPW 02A W25 7120000010 JUMPER JPW 02A W26 7120000020 JUMPER JPW 02H	
W8 7120000010 JUMPER JPW 02A W25 7120000010 JUMPER JPW 02A W28 7120000020 JUMPER JPW 02H	
W25 7120000010 JUMPER JPW 02A W26 7120000020 JUMPER JPW 02H	
W26 7120000020 JUMPER JPW 02H	
W27 7030000010 S.JUMPER MCH10EZHJ JPW (000)	
.11 6510007020 CONNECTOR TMP-J01X-V6	
J2 6510003390 CONNECTOR B03B-EH-S	
J3 6510003400 CONNECTOR B04B-EH-S 6510003400 CONNECTOR B04B-EH-S	
The state of the s	
J14 6510003080 CONNECTOR RT011-1.0B	
J15	
J17 6510003440 CONNECTOR B08B-EH-S	
J18 6510003440 CONNECTOR B08B-EH-S	
J19 6510007020 CONNECTOR TMP-J01X-V6	
J20 6510003250 CONNECTOR TMP-J01X-A2	
ONINESTON TIMESTATE	
EP1 0910037584 PCB B 3668D	

[SWR BOARD]

REF. NO.	ORDER NO.		DESCRIPTION
IC1	1110000960	S.IC	NJM4558M(T1)
IC2	1110000960	S.IC	NJM4558M(T1)
Q1	1560000360	S.FET	2SK209-Y (TE85R)
Q2	1560000360	S.FET	2SK209-Y (TE85R)
D1	1750000030	S.DIODE	1SS187 (TE85R)
R1	7030000620	S.RESISTOR	MCR10EZHJ 100 kΩ (104)
R2	7030000500	S.RESISTOR	MCR10EZHJ 10 kΩ (103)

[SWR BOARD]

REF. NO.	ORDER NO.		DESCRIPTION
R3	7030000500	S.RESISTOR	MCR10EZHJ 10 kΩ (103)
R4	7030000500	S.RESISTOR	MCR10EZHJ 10 kΩ (103)
R5	7030000600	S.RESISTOR	MCR10EZHJ 68 kΩ (683)
R6	7030000570	S.RESISTOR	MCR10EZHJ 39 kΩ (393)
R7	7030000580	S.RESISTOR	MCR10EZHJ 47 kΩ (473)
R8	7030000580	S.RESISTOR	MCR10EZHJ 47 kΩ (473)
R9	7030000540	S.RESISTOR	MCR10EZHJ 22 kΩ (223)
R10	7030000620	S.RESISTOR	MCR10EZHJ 100 kΩ (104)
R11	7030000500	S.RESISTOR	MCR10EZHJ 10 kΩ (103)
R12	7030000500	S.RESISTOR	MCR10EZHJ 10 kΩ (103)
R13	7030000630	S.RESISTOR	MCR10EZHJ 120 kΩ (124)
R14	7030000500	S.RESISTOR	MCR10EZHJ 10 kΩ (103)
R15	7030000480	S.RESISTOR	MCR10EZHJ 6.8 kΩ (682)
R16	7030000500	S.RESISTOR	MCR10EZHJ 10 kΩ (103)
R17	7030000570	S.RESISTOR	MCR10EZHJ 39 kΩ (393)
R18	7030000740	S.RESISTOR	MCR10EZHJ 1 M Ω (105)
R19	7030000570	S.RESISTOR	MCR10EZHJ 39 kΩ (393)
''''			
C1	4030005110	S.CERAMIC	C2012 JB 1E 473K-T-A
C2	4030004750	S.CERAMIC	C2012 JB 1H 103K-T-A
СЗ	4030005110	S.CERAMIC	C2012 JB 1E 473K-T-A
C4	4030005110	S.CERAMIC	C2012 JB 1E 473K-T-A
C5	4030005110	S.CERAMIC	C2012 JB 1E 473K-T-A
Св	4030004710	S.CERAMIC	C2012 JB 1H 471K-T-A
C7	4030008670	S.CERAMIC	C2012 JB 1H 562K-T-A
J1	6510006670	CONNECTOR	50002-8104
J2	6510006660	CONNECTOR	50002-8103
EP1	0910014862	РСВ	B 1332B

[VR-D UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
R1	7210001860	VARIABLE	EVU-F2AF20 B14 (10KB)
EP1	0910037591	PCB	B 3673A

[VR-E UNIT]

REF. NO.	ORDER NO.	DESCRIPTION				
R1	7210001860	VARIABLE	EVU-F2AF20 B14 (10KB)			
EP1	0910037601	PCB	B 3734A			

[ANT SW UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
D1	1710000030	DIODE	1S1555
D2	1710000030	DIODE	1\$1555
 L1	6140001460	COIL	LR-170
			LR-170
L2	6140001460	COIL	
L3	6180000880	COIL	LAL 03NA 100K
L4	6180000880	COIL	LAL 03NA 100K
R1	7540000010	ABSORBER	DSA-301LA
R2	7540000100	ABSORBER	SRYH-350L
C1	4010000330	CERAMIC	DD105 SL 101J 50V
C2	4010000120	CERAMIC	DD104 SL 100D 50V
C3	4010000370	CERAMIC	DD106 SL 201J 50V
C4	4010000120	CERAMIC	DD104 SL 100D 50V

REF. NO.	ORDER NO.		DESCRIPTION
C5	4010000330	CERAMIC	DD105 SL 101J 50V
C6	4010000530	CERAMIC	DD103 SE 1013 30V
C7	4010000520	CERAMIC	DD108 B 472K 50V
	6330000470	RELAY	NR-HD (12V) AE5343
RL1 RL2	6330000470	RELAY	G5A-237P DC12V
W1	7120000380	JUMPER	JPW 01 R-01
W2 W3	7120000380 7120000380	JUMPER JUMPER	JPW 01 R-01 JPW 01 R-01
N3 N4	7120000380	JUMPER	JPW 01 R-01
V5	7120000380	JUMPER	JPW 01 R-01
V6	7120000380	JUMPER	JPW 01 R-01
4 5	6510000410 6510000410	CONNECTOR	MR-DS-E 02 [ANT 2] MR-DS-E 02 [ANT 1]
			, ,
P1	0910037256	РСВ	B 3669F
]	
		1	

SECTION 7 MECHANICAL PARTS

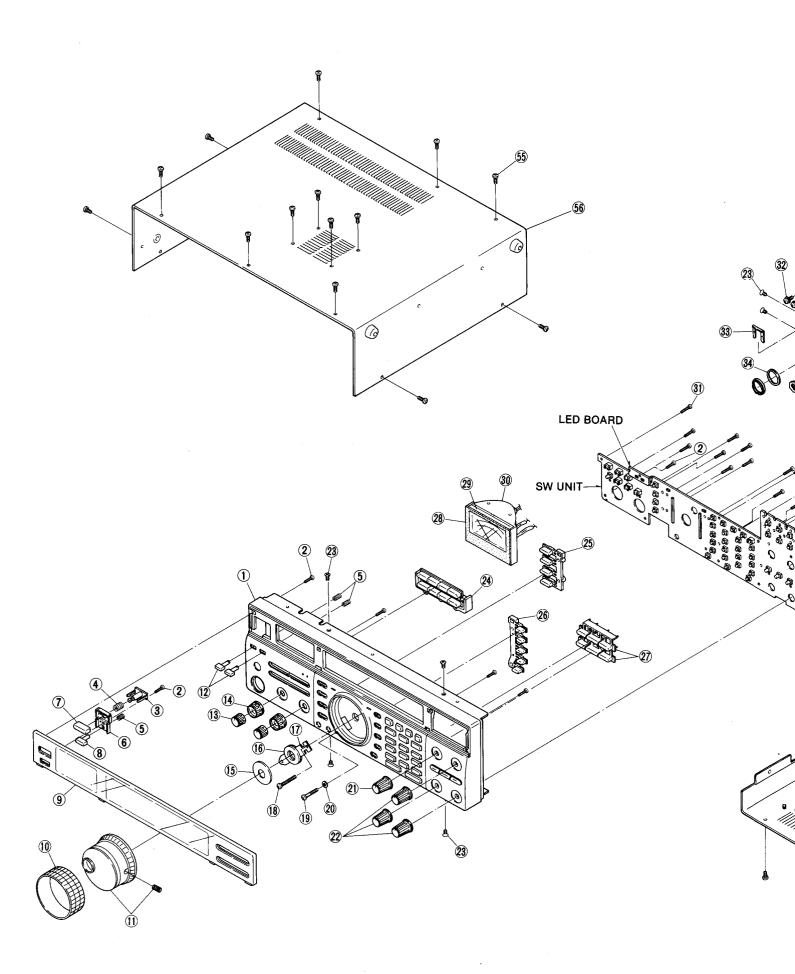
7-1 FRONT AND CABINET PARTS

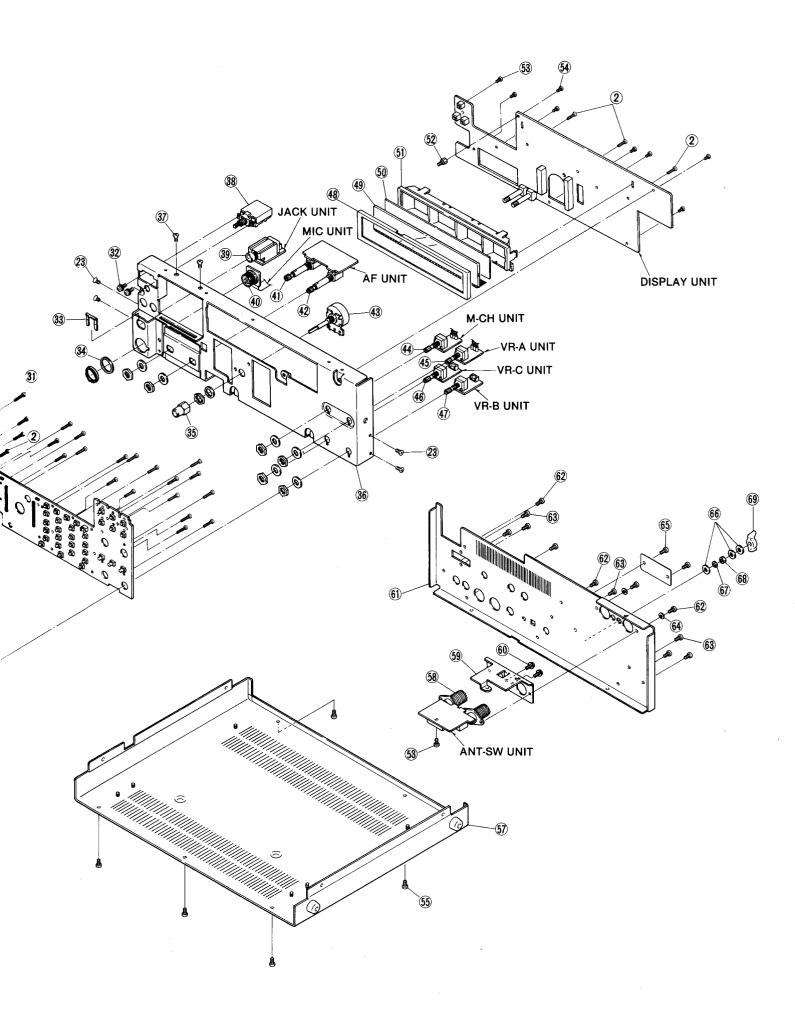
LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.	LABEL Number	ORDER NO.	DESCRIPTION	QTY.
1	8210009271	1296 front panel (D) -1 complete (incl. ② - ②)	1	40	6510000190	Connector FM214-8SS (P) [MICROPHONE] (incl. nut)	1
2	8810000990	Screw PH B0 M2×5	9			Variable resistor RV-233 (RK1242210)	
3	8610008440	Button spacer for K201	1	41)	7210001990	10KB/10KA [SQL/AF]	1
4	8930027110	Push spring (P)	1			(incl. nut, washer)	
(5)	8930027960	1296 push spring	3			Variable resistor RV-279 (RK1242210)	
6	8930027120	1296 knob plate	1	42	7210002270	250KC/10KB [KEY SPEED/MIC]	1
1	8610008420	Button K201 [POWER]	1			(incl. nut, washer)	
8	8610008430	Button K202 [TRANSMIT]	1		0050000110	Encoder SW-147 (EC24B50B)	
9	8210009330	1296 front glass (A)	1	43	2250000110	[MAIN DIAL] (incl. nut, washer)	1
10	8610008450	Knob cover for N96	1		0000001070	Switch SW-146 (SRBMIL) [M-CH]	1
(1)	8610008570	Knob N96 (A) assembly [MAIN DIAL]	1	44	2260001870	(incl. nut, washer)	1
(12)	8610008410	Button K200 [BK-IN (VOX), FULL]	2		701000000	Variable resistor RV-282 (RK0971110)	_
13	8610008500	Knob N69 (A) [AF, MIC]	2	45	7210002300	10KB [PBT] (incl. nut, washer)	1
(14)	8610008510	Knob N45 (D) [SQL, KEY SPEED]	2		701000000	Variable resistor RV-281 (RK0971110)	
(15)	8930027460	1296 knob sheet	1	46	7210002280	10KB [RIT/ΔTX] (incl. nut, washer)	1
16	8930027470	1296 brake pad	1		701000000	Variable resistor RV-280 (RK0971110)	1
17	8930027090	1296 brake plate	1	47	7210002290	100KC [NOTCH] (incl. nut, washer)	1
(18)	8810007750	Screw PH B1 M3×18 ZK	1	48	8930027140	1296 LCD rubber	1
19	8820000770	1296 screw	1		5000000040	LCD FTD-11668AAPH	1
20	8850001330	Insulate flat washer (M)	1	49	5030000910	[FUNCTION DISPLAY]	1
21)	8610008470	Knob N113 (C) [M-CH]	1	50	8930027390	1296 A-LCD filter (A)	1
22	8610008460	Knob N113 (B) [PBT, NOTCH, etc.]	3	5 1)	8930027040	1296 LCD holder	1
23	8810002260	Screw FH B0 M3×6	8	52	8930000200	Stand-off (P)	1
24	8610008390	Button K-198 [TUNER, TUNE, etc.]	1	53	8810001350	Screw PH B1 M3×6	8
25	8610008370	Button K-196 [SSB, CW/N, etc.]	1	54	8810000010	Screw PH M2×4	1
26	8610008380	Button K-197 [XFC, TS, etc.]	1	55	8810004320	Screw OH M3×8 ZK BS	19
27)	8610008340	Button K-193 [SEL, SCAN, etc.]	2	56	8110004960	1296 top cover (complete)	1
28	8930027330	1296 meter sponge	1	57	8110004970	1296 bottom cover (complete)	1
<u> </u>	EE10000400	Meter ME-32 (MG-113S)	1	58	6510000410	Connector MR-DS-E 02 [ANT1, ANT2]	2
29	5510000400	[S/RF METER]	1	59	8930027350	1296 ANT plate	1
30	8010002990	Meter holder	1	60	8810006070	Setscrew A M3×6 NI	2
31)	8810004010	Screw PH B0 M2×8	21	61)	8210009340	1427 rear panel	1
32	8810003160	Setscrew A M3×6	2	62	8810002910	Screw BiH M3×8 NI BS	4
33	6450001230	Snap plate HLJ0999-01-480	1	63	8810001420	Screw PH B1 M3×8 NI	8
34	8930003200	Spacer (P)	1	64	8850000420	Spring washer M3 NI	2
35	8950002970	1296 bushings nut	1	(65)	8810005530	Screw PH ST M2.6 × 6 NI (OTH)	2
36	8010014221	1296 sub chassis	1	W9	8860000040	Rivet M2×6 No.2 NI (FRA)	2
37	8810002250	Screw FH B0 M2.6×6	2	66	8850000150	Flat washer M5 NI BS	3
(38)	2260001580	Switch JPZ2120-0101 (TV-3)		67	8850000440	Spring washer M5 NI	1
90	2200001300	[POWER]	1	68	8830000210	Nut M5 NI BS	1
39	6450000191	Connector HLJ4815-01-030 [PHONES]	1	69	8830000360	Wing nut M5 NI	1

Screw abbreviations

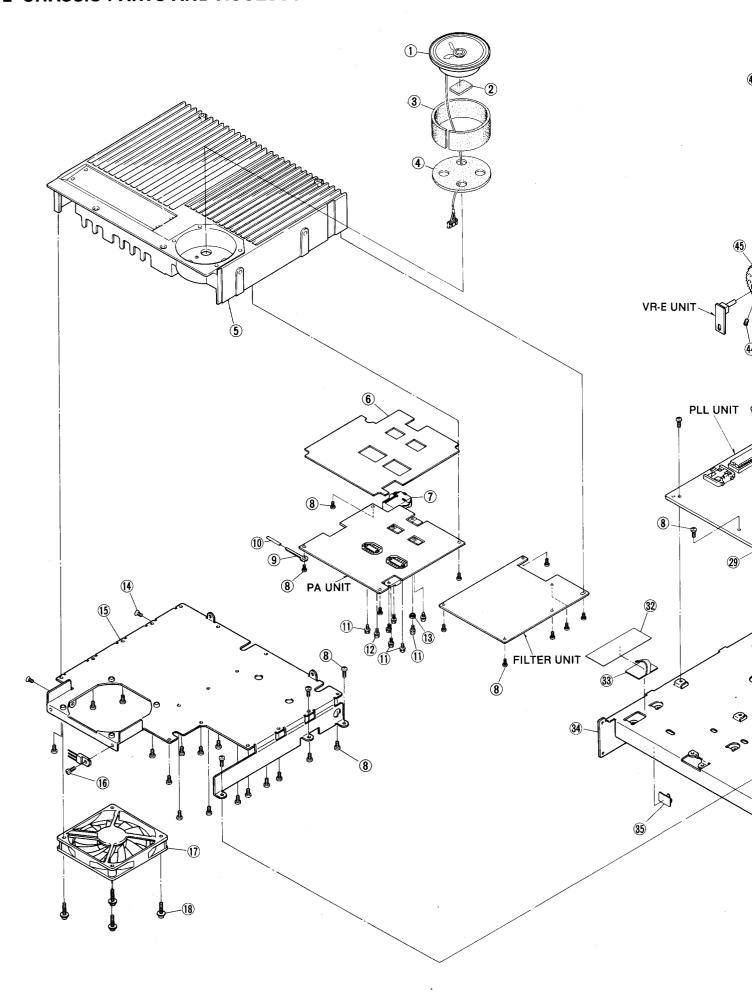
PH: Pan head FH: Flat head OH: Oval countersunk head BiH: Binding head

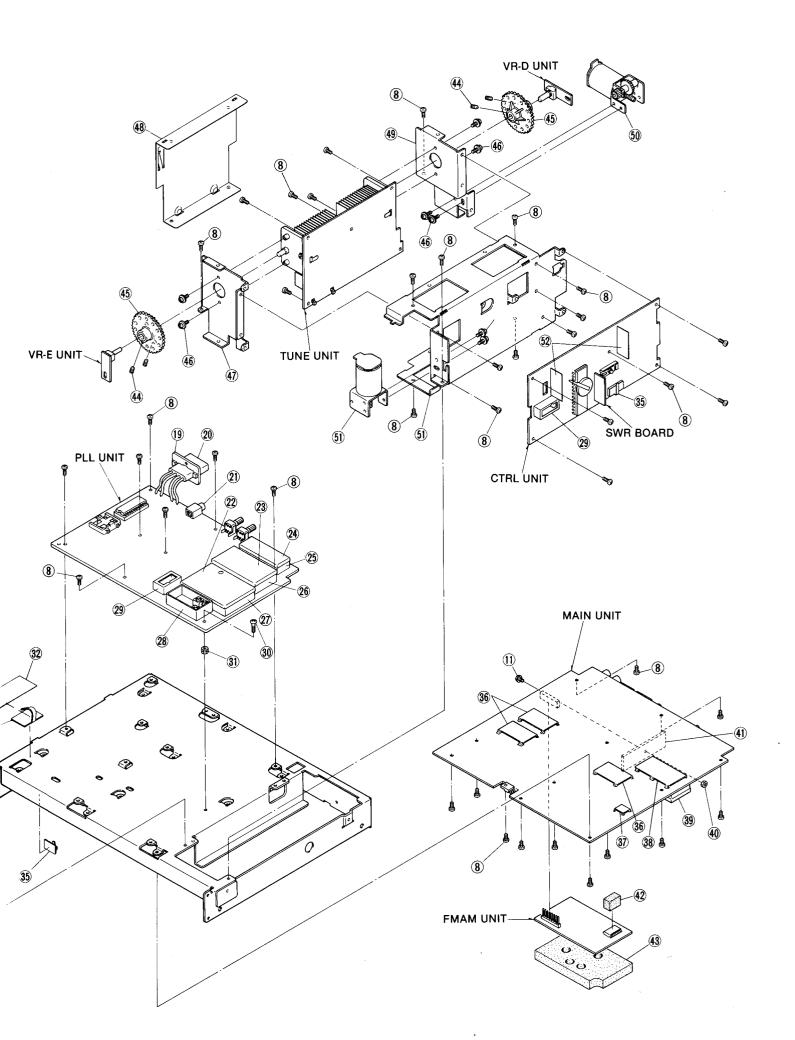
B0, B1, ST: Self-tapping BS: Brass NI: Nickel ZK: Black





7-2 CHASSIS PARTS AND ACCESSORIES





• CHASSIS PARTS

LABEL Number	ORDER NO.	DESCRIPTION	QTY.	LABEL Number	ORDER NO.	DESCRIPTION	QTY.
1	2510000040	Speaker C065K12I0810	1	27	8510006000	724 PLL case	1
2	8930006610	Sponge (AH)	1	28	8510000230	220 shield case	1
3	8930007831	401 sponge (C) -1	1	29	8510002200	VCO case	2
4	8930007821	401 sponge (B) -1	1	30	8810003750	Icom screw (C) 9	1
(5)	8410000783	401 heatsink-3	1	31)	8930006080	Half thread spacer (C)	, 1
6	8930007620	PA insulate plate	1	32	8930005180	Aluminum sheet G	1
7	6510003780	Connector LLR-06 [DC13.8V]	1	33	6910003450	Wire sticker S-50	1
8	8810001350	Screw PH B1 M3×6	69	34	8010014201	1296 main chassis -1	1
9	6910000690	Clip 59TC4772	1	35	8950002460	Wire sticker S-10 silver	2
10	9034003901	Tube D=2.0 L=30mm	1	36	8510003160	VCO shield plate	3
①	8810003170	Setscrew A M3×8	8	37	8510002280	VCO shield plate (A)	1
(12)	8810003210	Setscrew A M3 × 15	1	38	8510004370	506 shield plate	1
(13)	6910000310	Insulate bush B312D	1	39	8510001101	Shield case (A) cover (A) -1	1
14	8810002260	Screw FH B0 M3×6	2	40	8830000100	Nut M3	1
(15)	8510007870	1296 PA cover	1	41)	8410000910	Heatsink	1
16	8810001360	Screw PH B1 M3×8	1	42	8930014500	Sponge (BN)	1
①	2710000390	Fan FBA08T12L	1	43	8930027130	1296 AM sponge	1
(18)	8810007740	Setscrew C M4 × 20	4	44)	8810003540	Screw enameled M4×6 ZK	4
19	8930026960	1296 connector plate	1	45	8930005940	Gear G-16	2
20	6510001920	Connector 1490R [TUNER]	1	46	8810003360	Setscrew C M3×6	8
		Connector HSJ0807-01-010		47	8010014230	1296 B-chassis	1
21)	6450000140	[REMOTE]	1	48	8110005000	1296 shield cover	1
22	8510003510	406 shield case cover	1	49	8010014240	1296 C-chassis	1
23	8510004050	DDS shield case cover	1	50	8930000880	Motor HMK2601-01-030 (incl. gear)	2
24	8510001740	Shield case cover	1	<u>(51)</u>	8010014210	1296 A-chassis	1
25	8510001060	Shield case	1	(52)	8510000500	PA shield plate B	2
26	8510003500	406 shield case	1				

Screw abbreviations

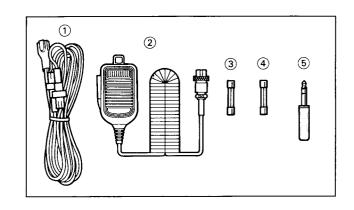
PH: Pan head FH: Flat head

B0, B1: Self-tapping

ZK: Black

• ACCESSORIES

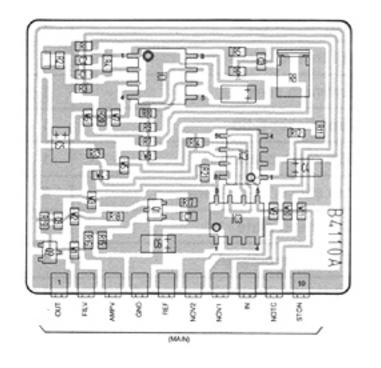
LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.
1	8900000220	DC power cable OPC-025 A	1
2	Optional product	HM-36 HAND MICROPHONE	1
3	5210000080	Spare fuse FGB 20A	1
4	5210000130	Spare fuse FGB 4A	1
(5)	5610000050	CW keyer plug AP330	1

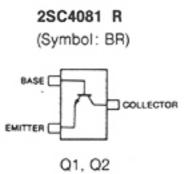


SECTION 8 BOARD LAYOUTS

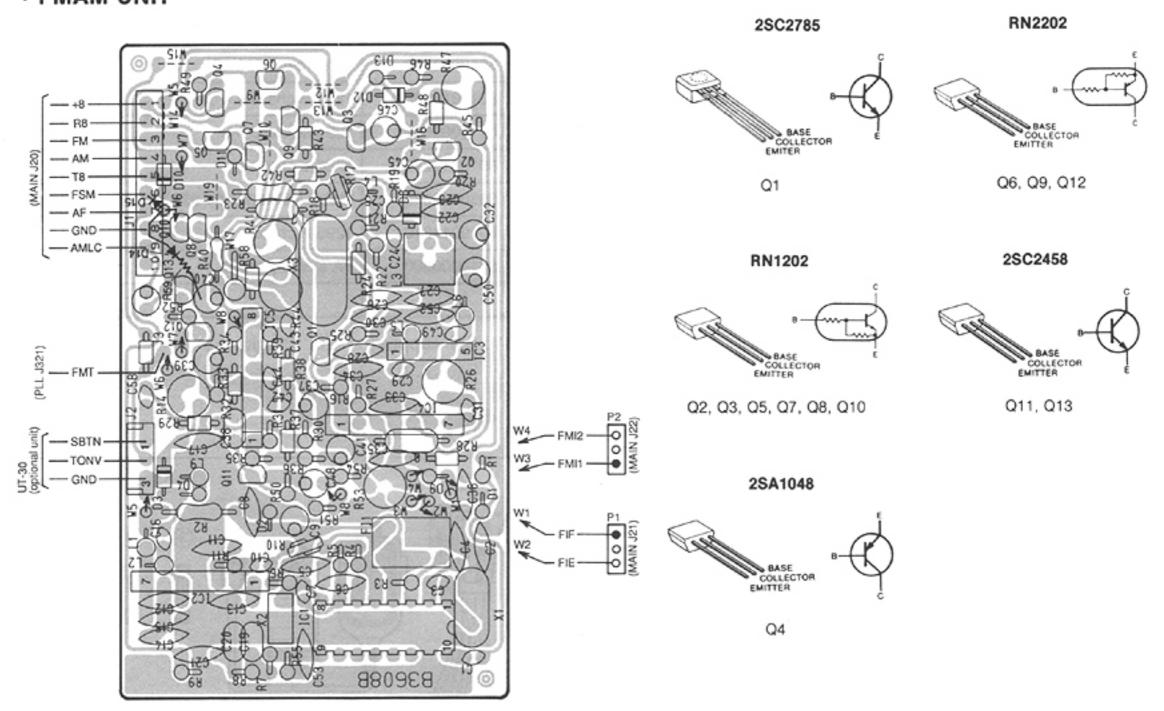
8-1 MAIN UNIT

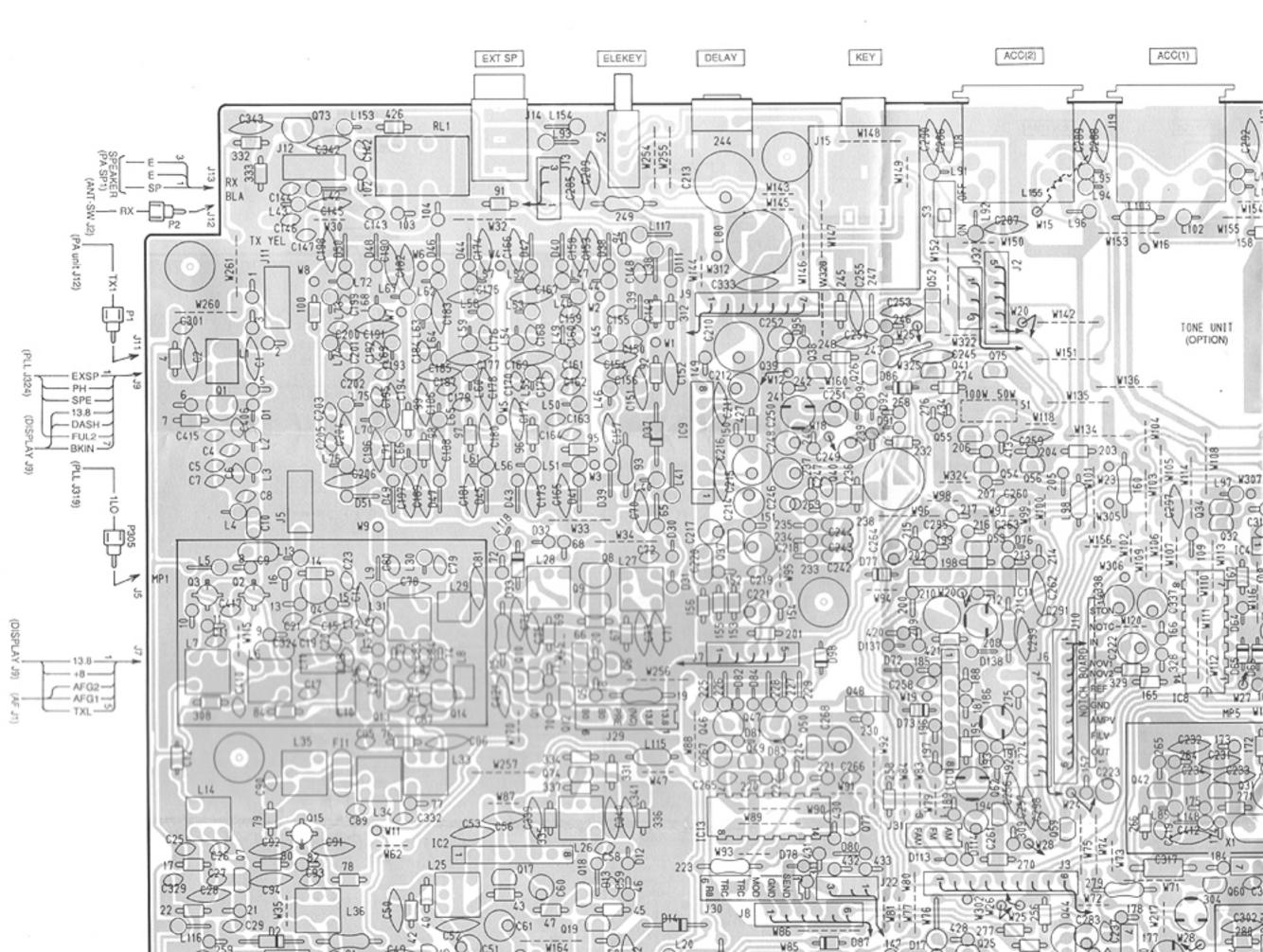
NOTCH BOARD

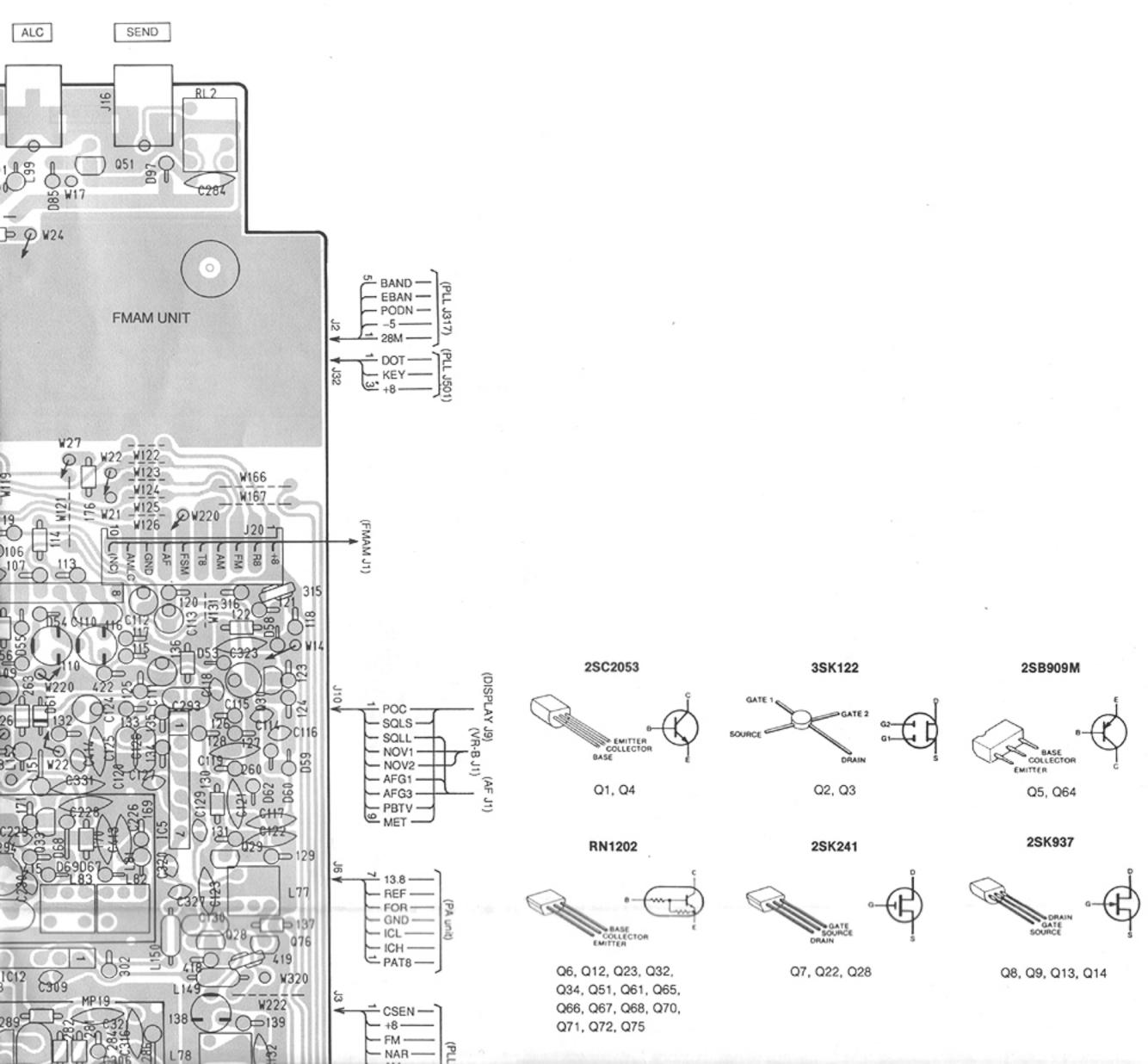


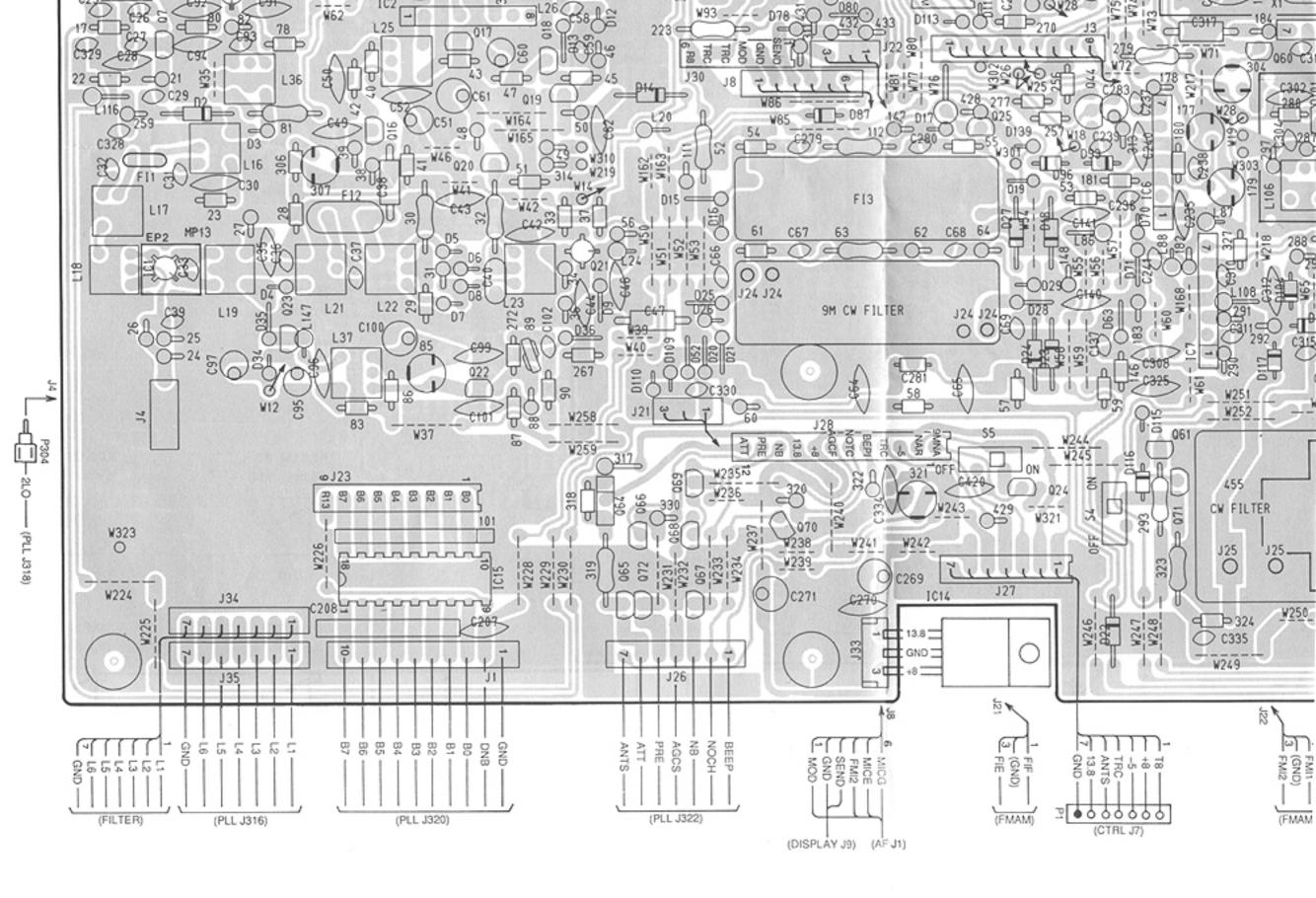


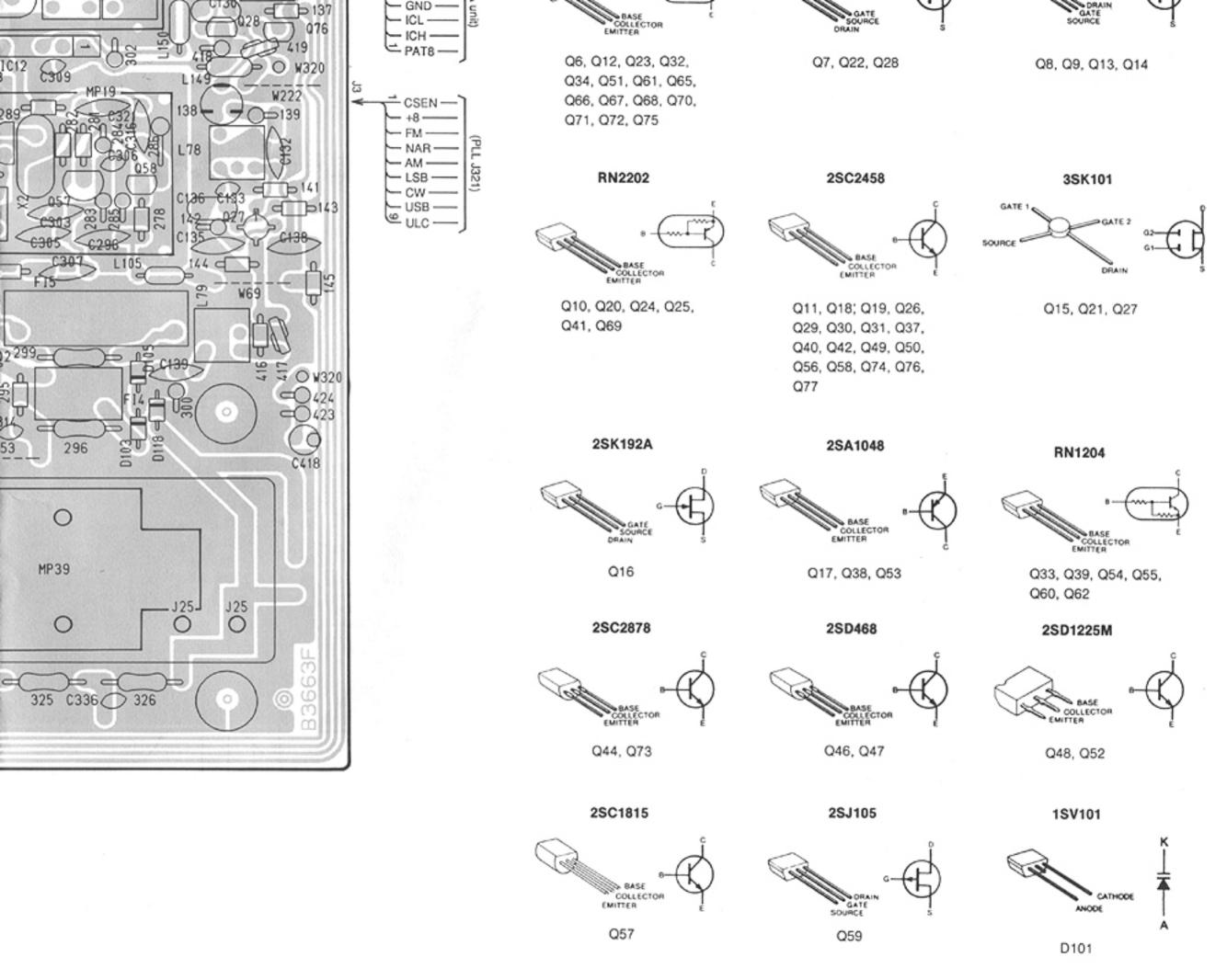
FMAM UNIT

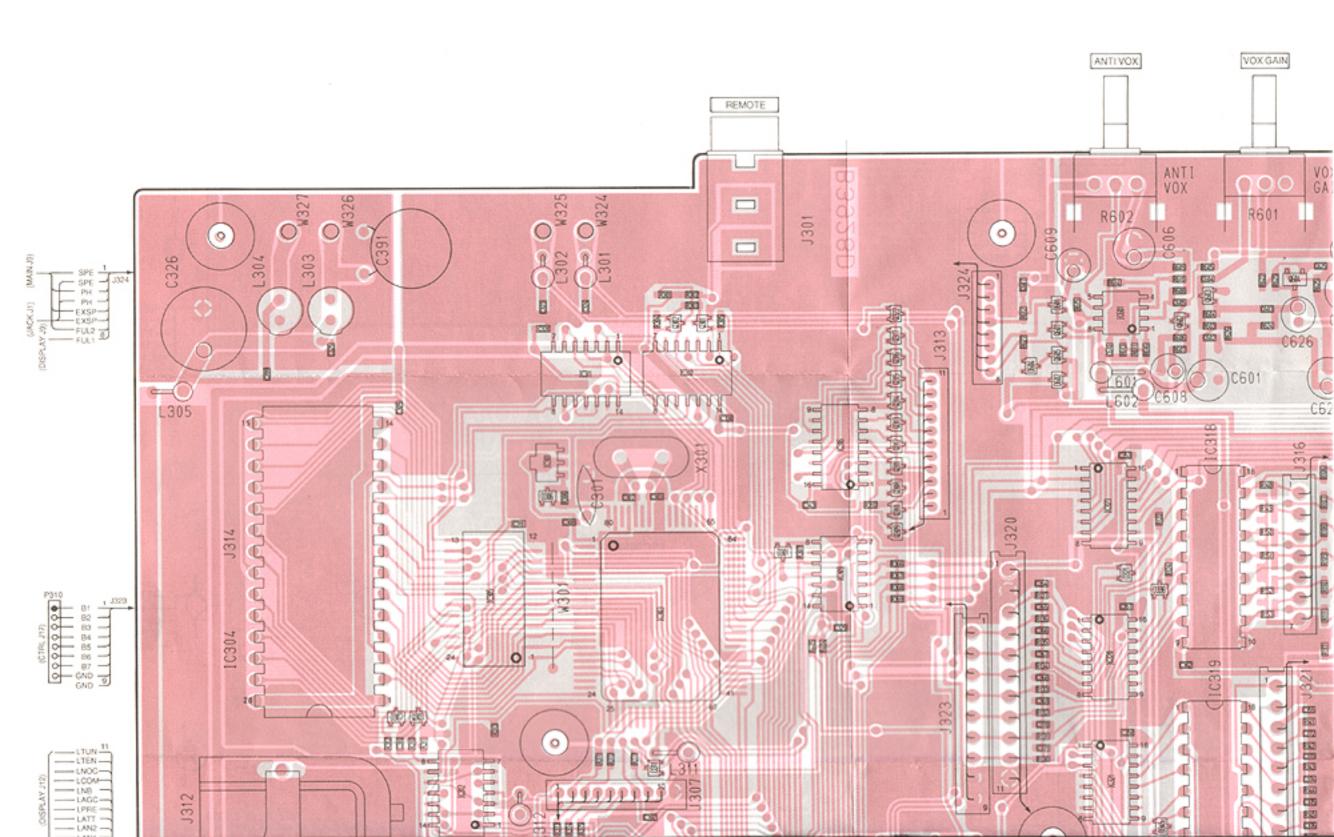


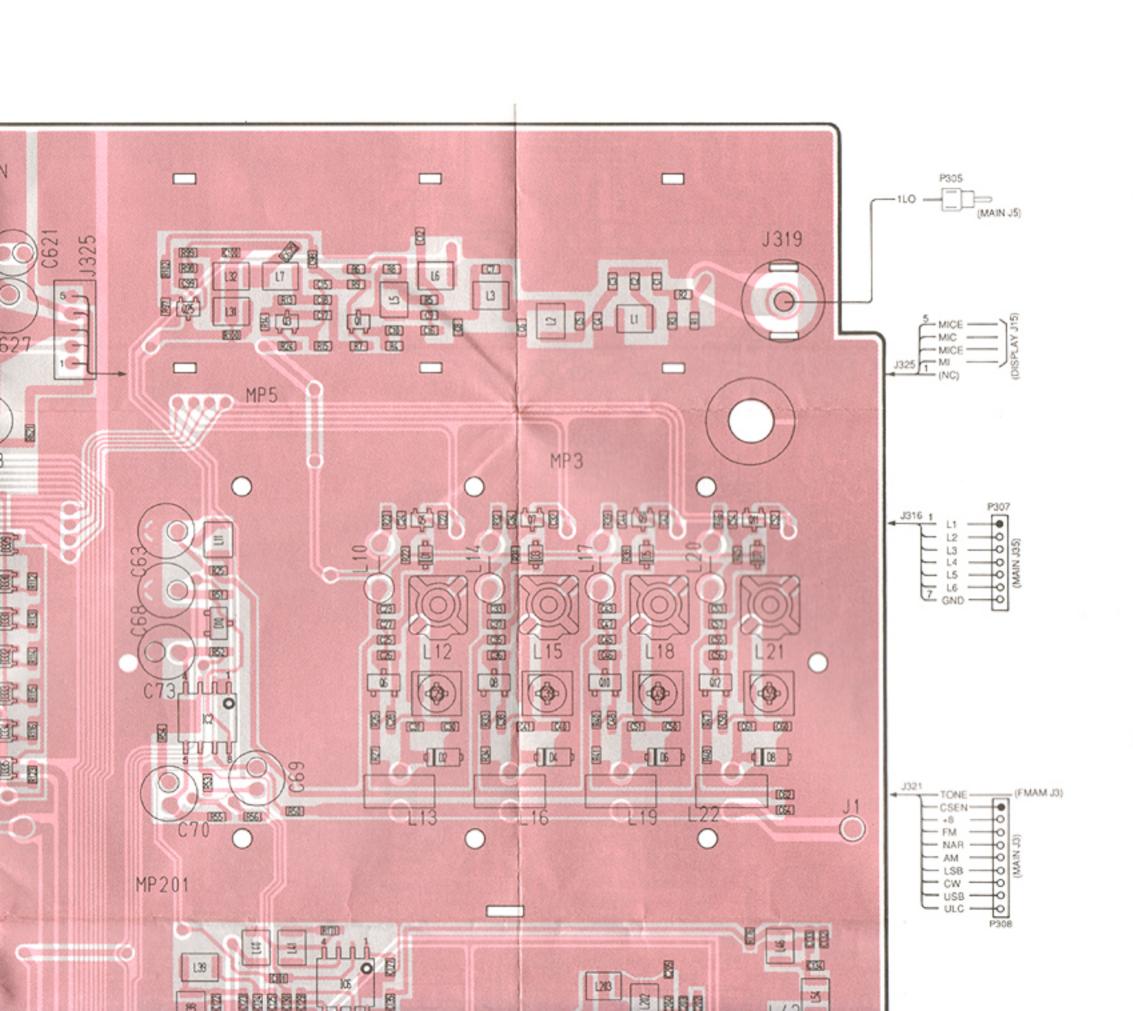






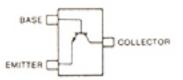






2SC4215 O

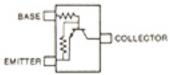
(Symbol: QO)



Q1, Q3, Q21, Q22, Q23, Q24, Q25, Q26, Q32

DTC114EU

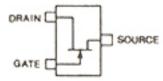
(Symbol: 24)



Q5, Q7, Q9, Q11, Q31, Q306, Q307, Q308, Q309, Q310, Q311, Q312, Q313, Q314, Q315, Q316, Q317, Q322, Q327, Q328, Q329, Q501, Q605

2SK210 GR

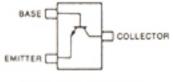
(Symbol: YG)



Q6, Q8, Q10, Q12

2SC4081 R

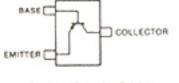
(Symbol: BR)



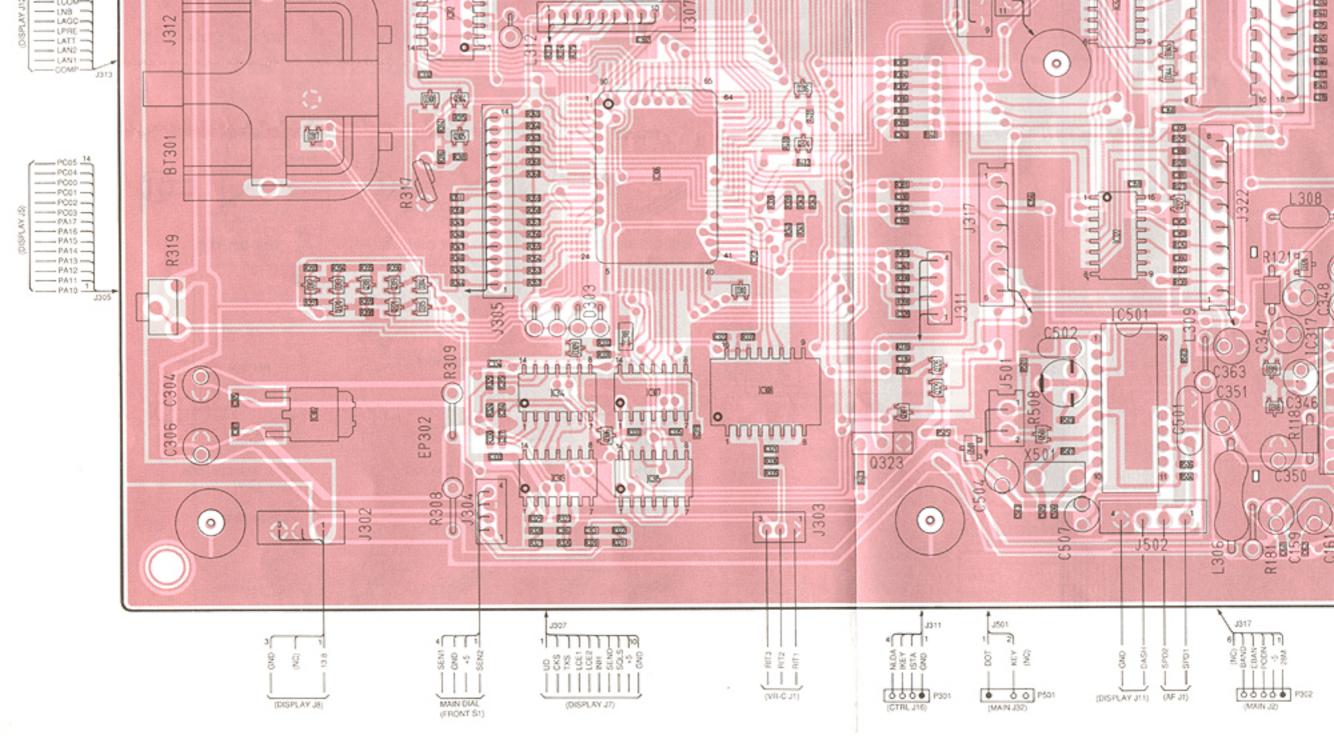
Q30, Q301, Q302, Q303, Q305, Q318, Q324, Q602, Q603

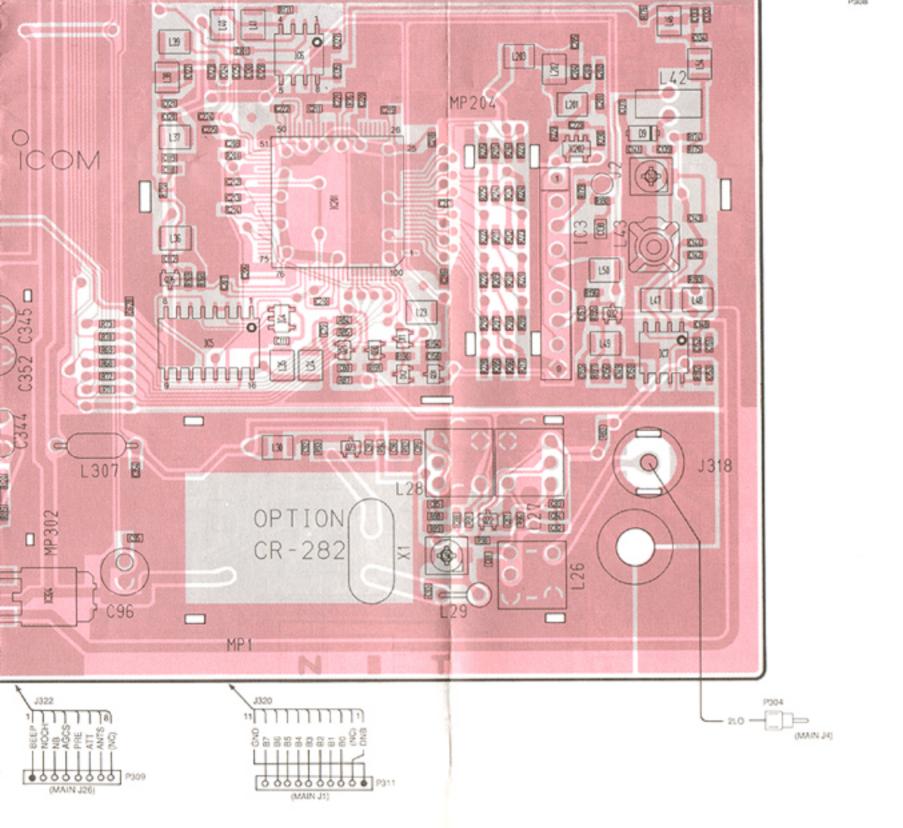
2SA1576 R

(Symbol: FR)



Q304, Q319, Q320,







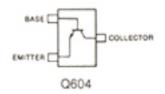
Q304, Q319, Q320, Q321, Q601

2SD1225M



Q323

2SC3324 BL (Symbol: CBL)



RD9.1M B3

(Symbol: 913)



D10

DAN202U (Sumbol: N)



D11, D12, D301, D306, D307, D308, D309, D310, D311, D312, D313, D314, D315, D316, D317, D318, D319, D321, D335, D336, D344, D345, D601, D602, D604

RD5.1M B2





D320, D501

DAP202U



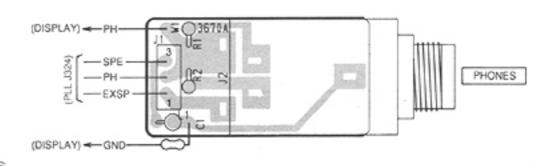
D329, D330, D331, D332, D333, D334

8-3 SW AND DISPLAY UNITS

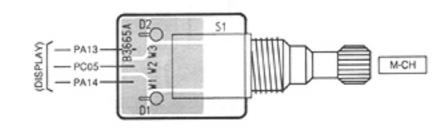
AF UNIT

(PLL J502) (MAIN J10) (MAIN J7) (MAI

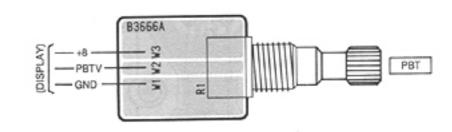
JACK UNIT



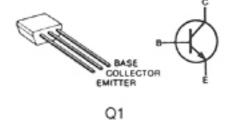
M-CH UNIT



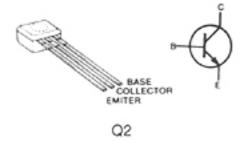
VR-A UNIT



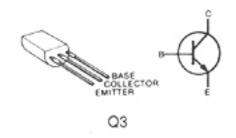
2SC2458 • 1



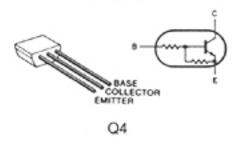
2SC2785



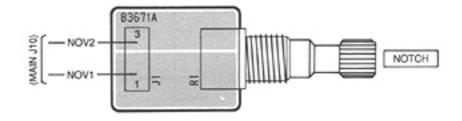
2SC2878



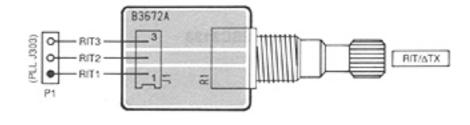
RN1202



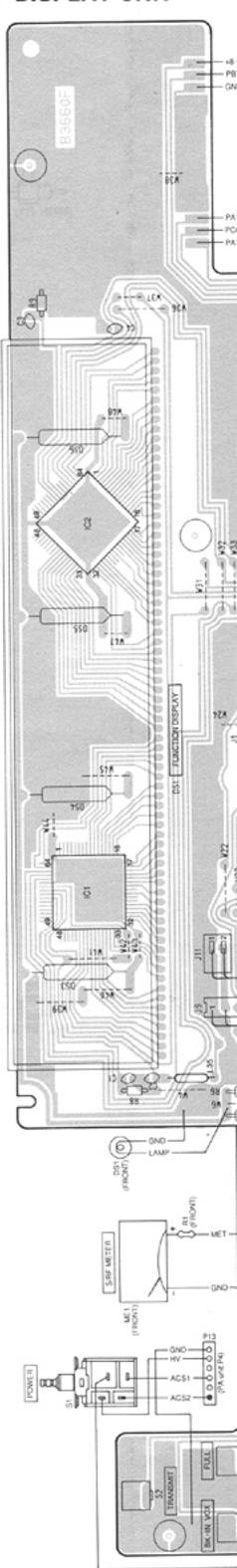
VR-B UNIT

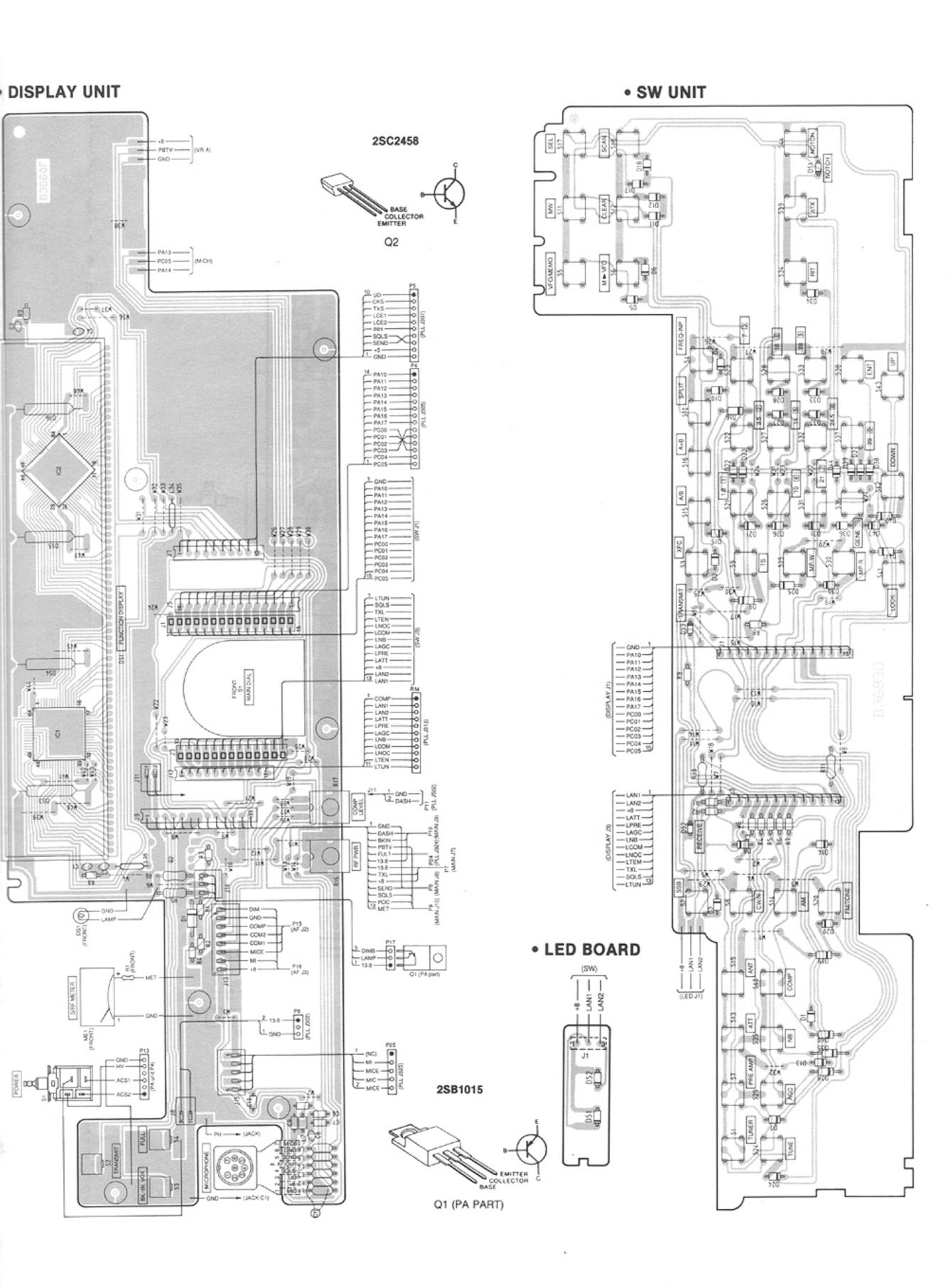


VR-C UNIT



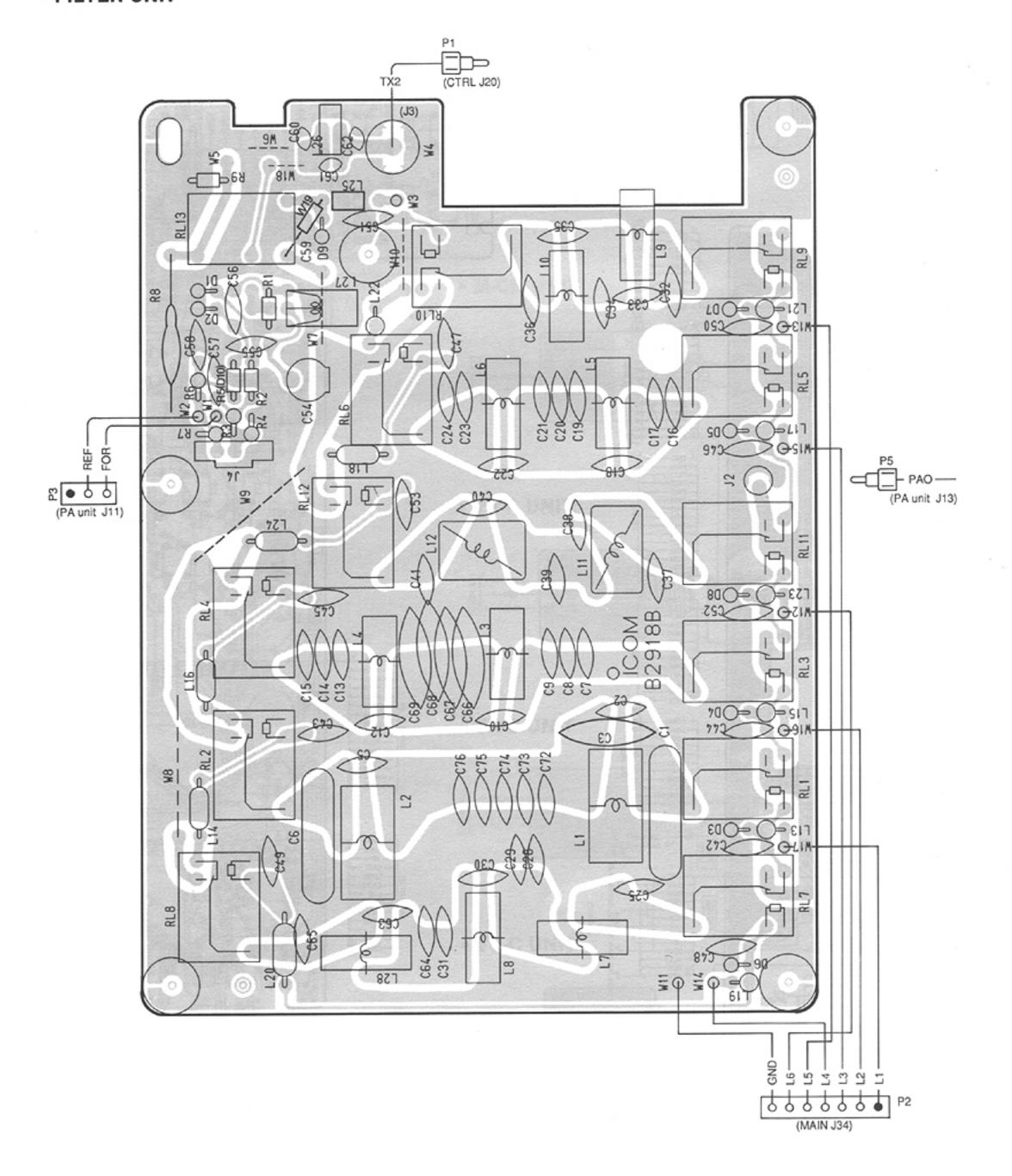
DISPLAY UNIT



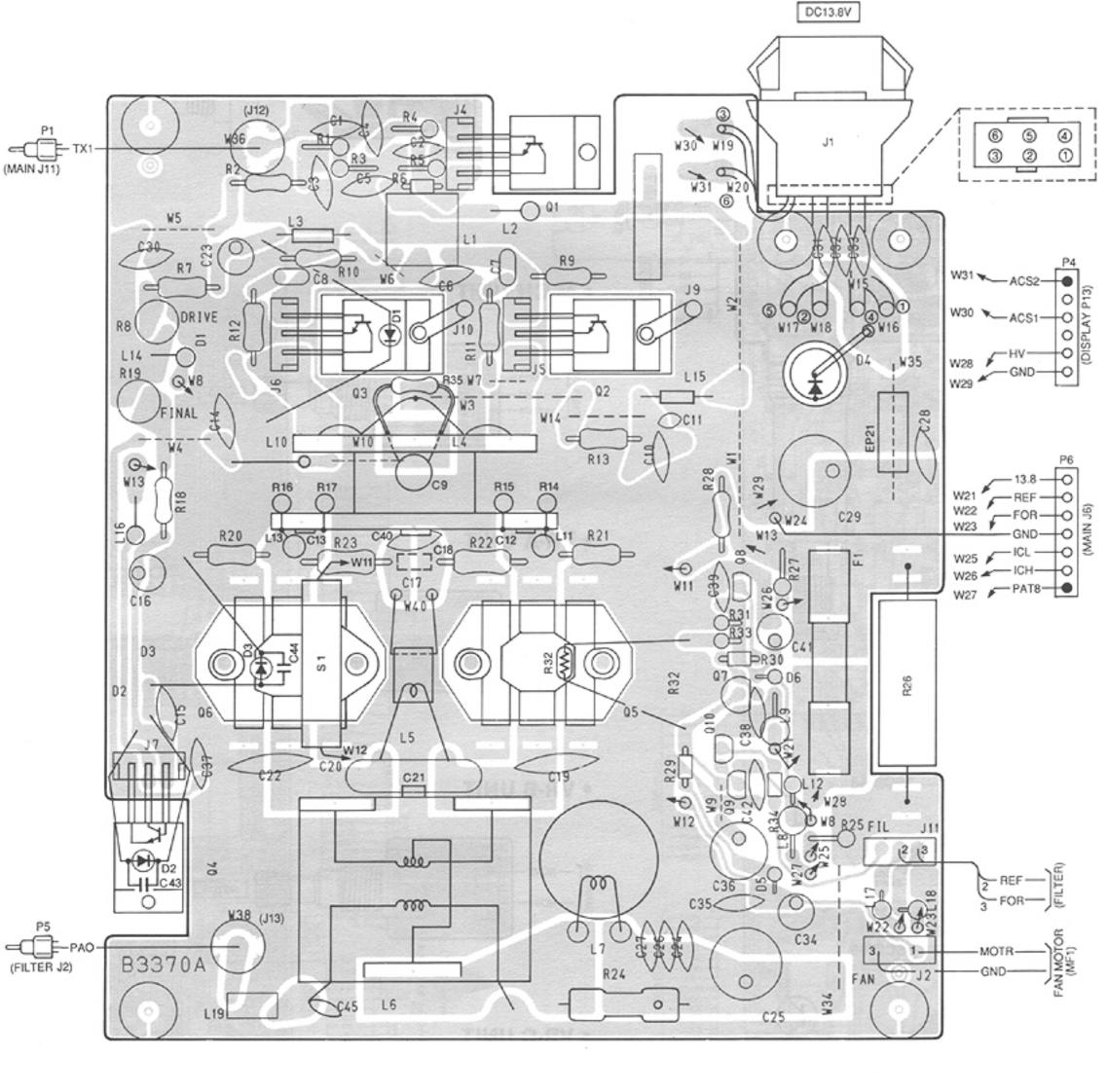


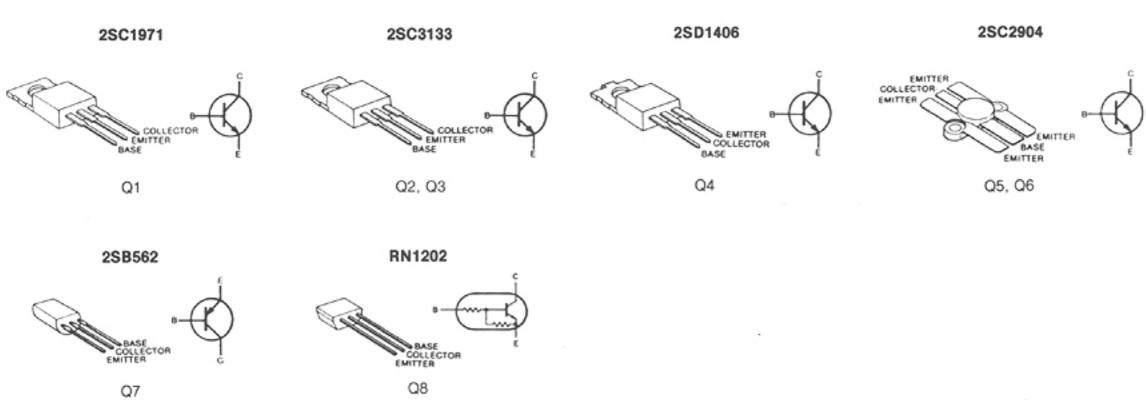
8-4 FILTER AND PA UNITS

• FILTER UNIT



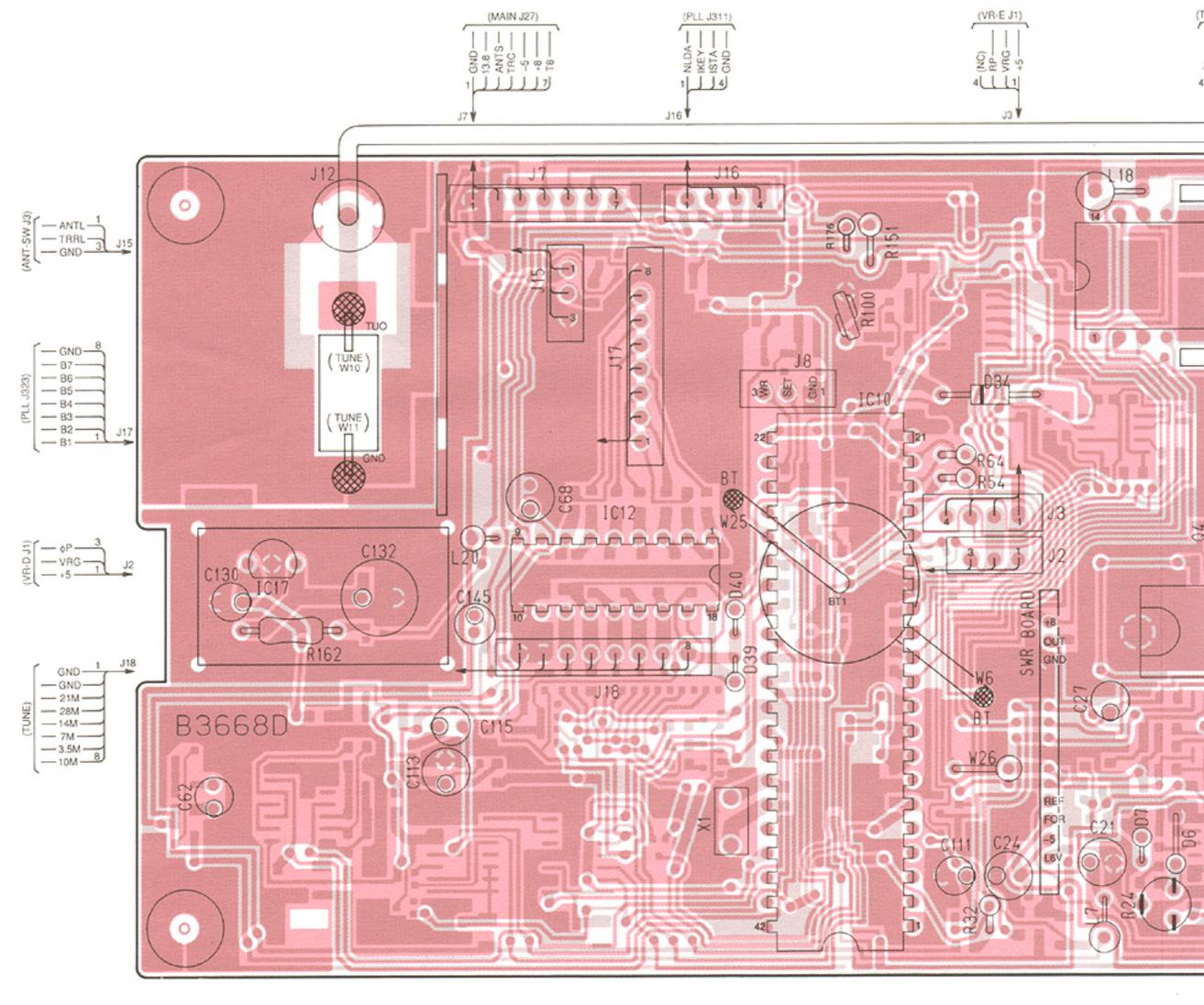
PA UNIT

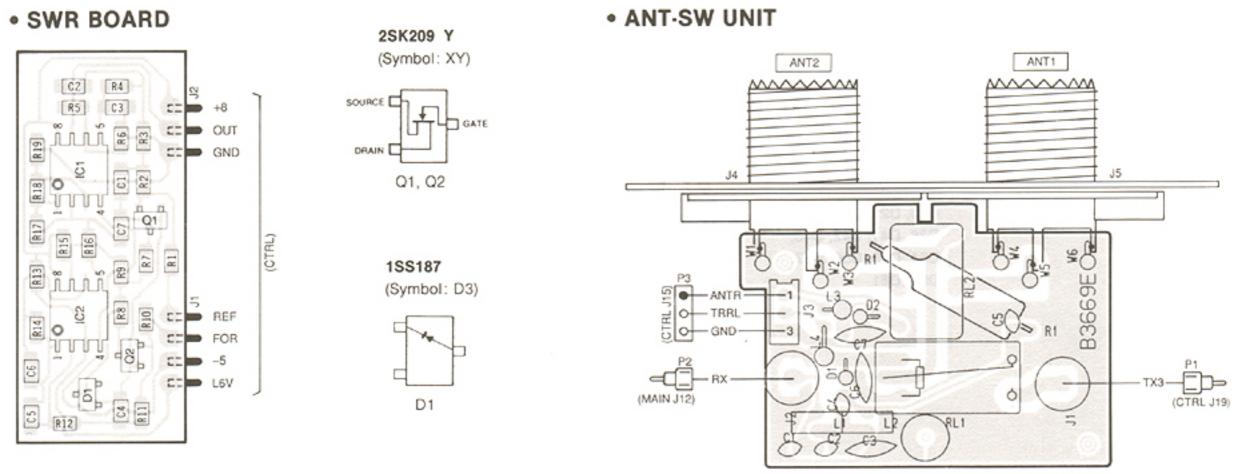




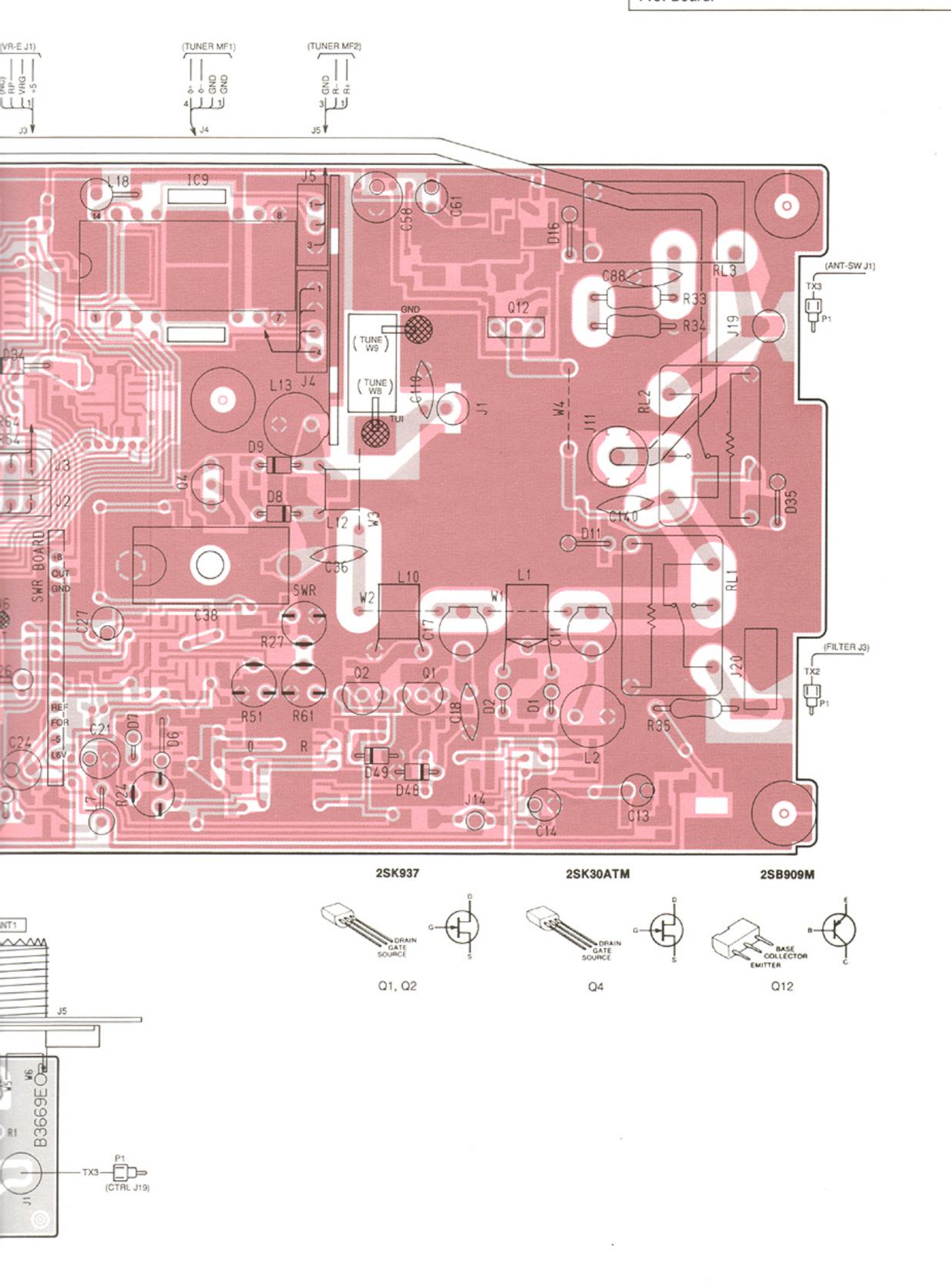
8-5 CTRL UNIT

• CTRL UNIT



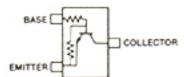


The combination of this page and the next page show the unit layout in the same configuration as the actual P.C. Board.



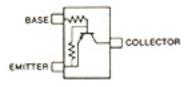
• CTRL UNIT

RN1402 (Symbol: XB)



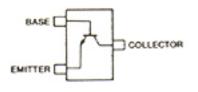
Q3, Q5, Q8, Q10, Q11, Q34, Q35, Q43, Q45

> RN2402 (Symbol: YB)



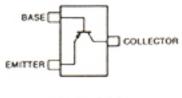
Q7, Q9, Q40, Q42, Q44

2SC2712 GR (Symbol: LG)



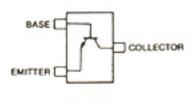
Q13, Q23

2SA1162 GR (Symbol: SG)



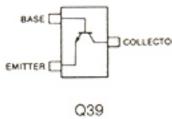
Q19, Q22

2SC3770 3 (Symbol: JY3)

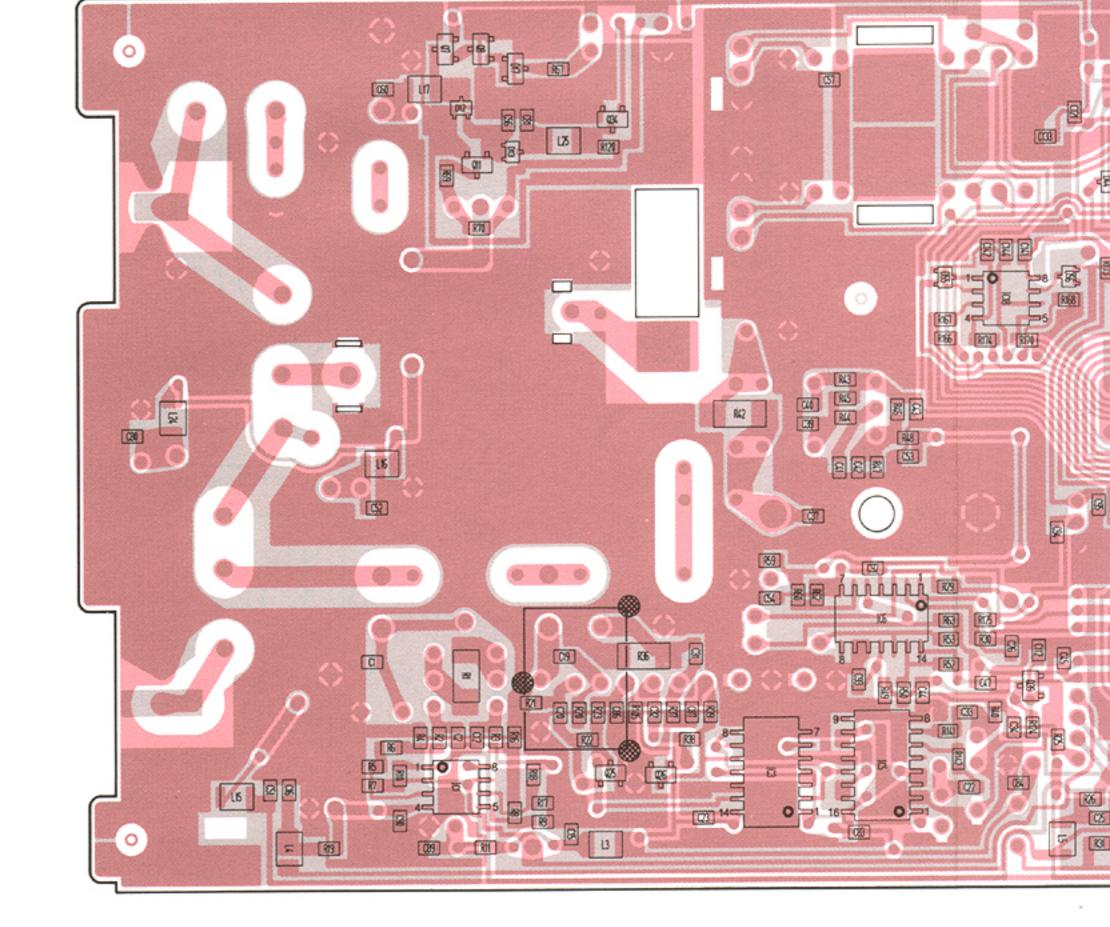


Q25, Q26

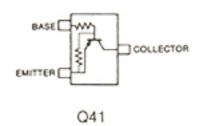




COLLECTOR



RN2404 (Symbol: YD)



BASE -COLLECTOR EMITTER [Q46

(Symbol: XD)

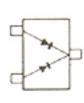
RN1404

DA113W (Symbol: AY)



D10, D12, D13, D19, D22, D27, D30, D45, D47, D51

DAN202U (Symbol: N)

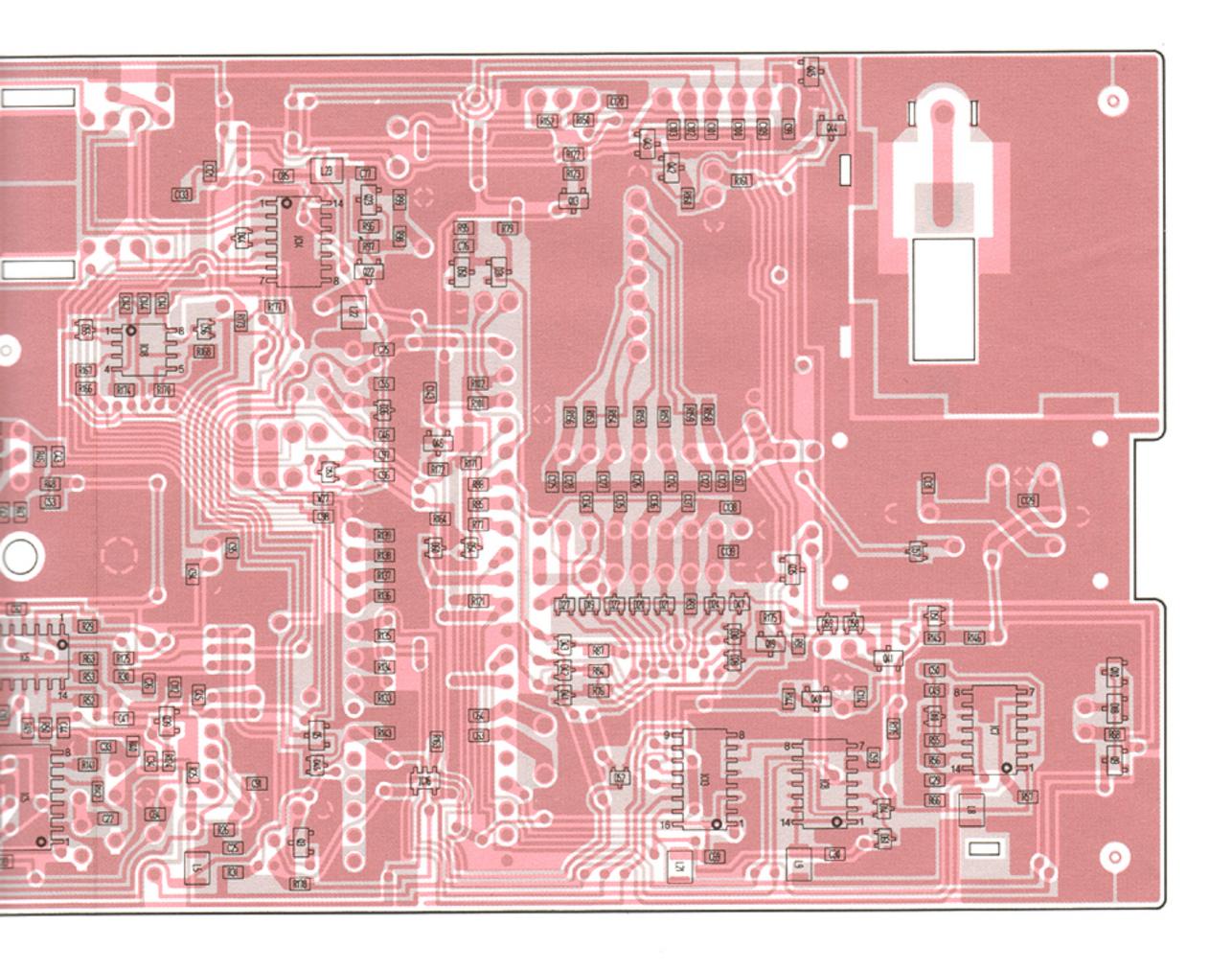


D14, D44, D52, D53, D59, D60

RD5.1N (Symbol

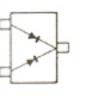


D17, D1



AN202U

Symbol: N)



D44, D52, D53,

RD5.1M B2 (Symbol: 512)



D17, D18, D50

DAP202U (Symbol: P)

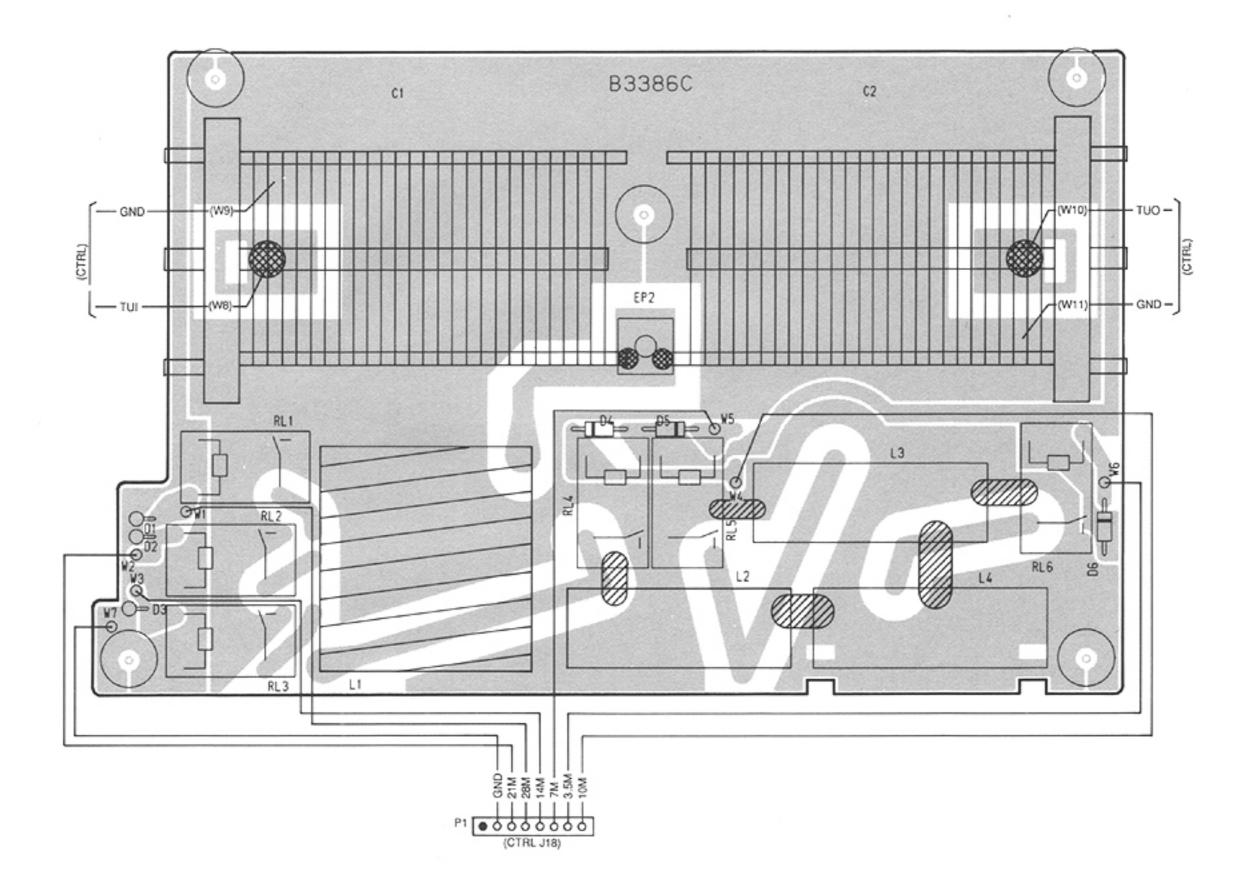


D20, D21, D24, D28, D36, D41, D42, D43, D54, D55, D56, D57, D58, D61 RD6.2M B2 (Symbol: 622)

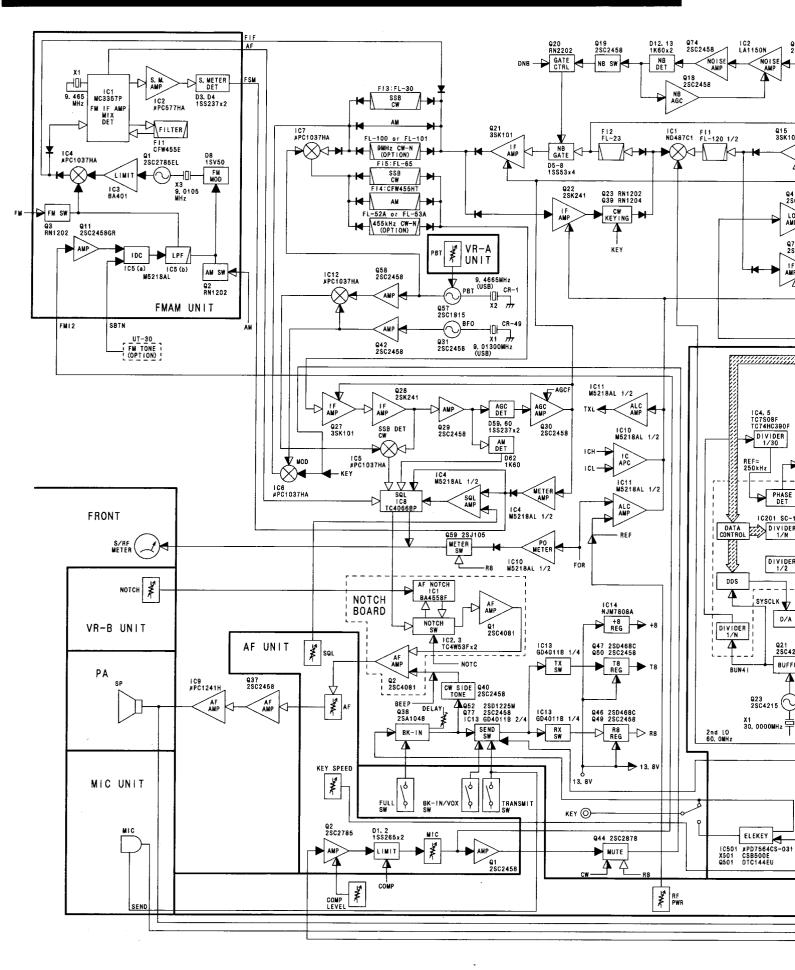


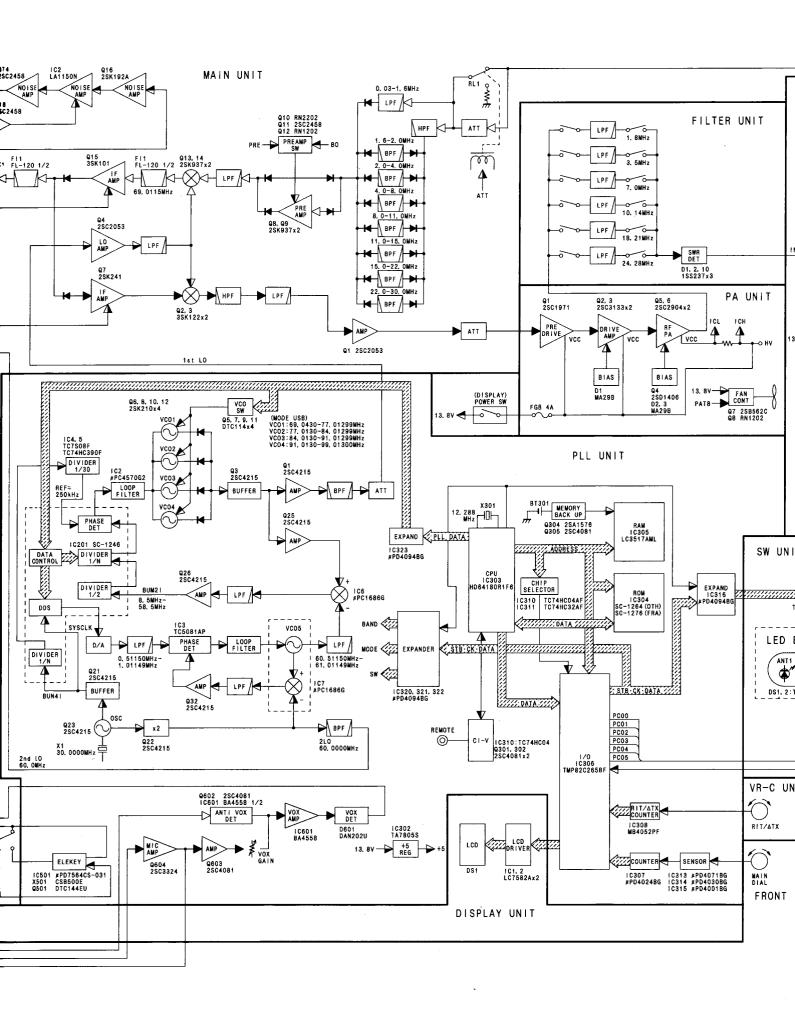
D31

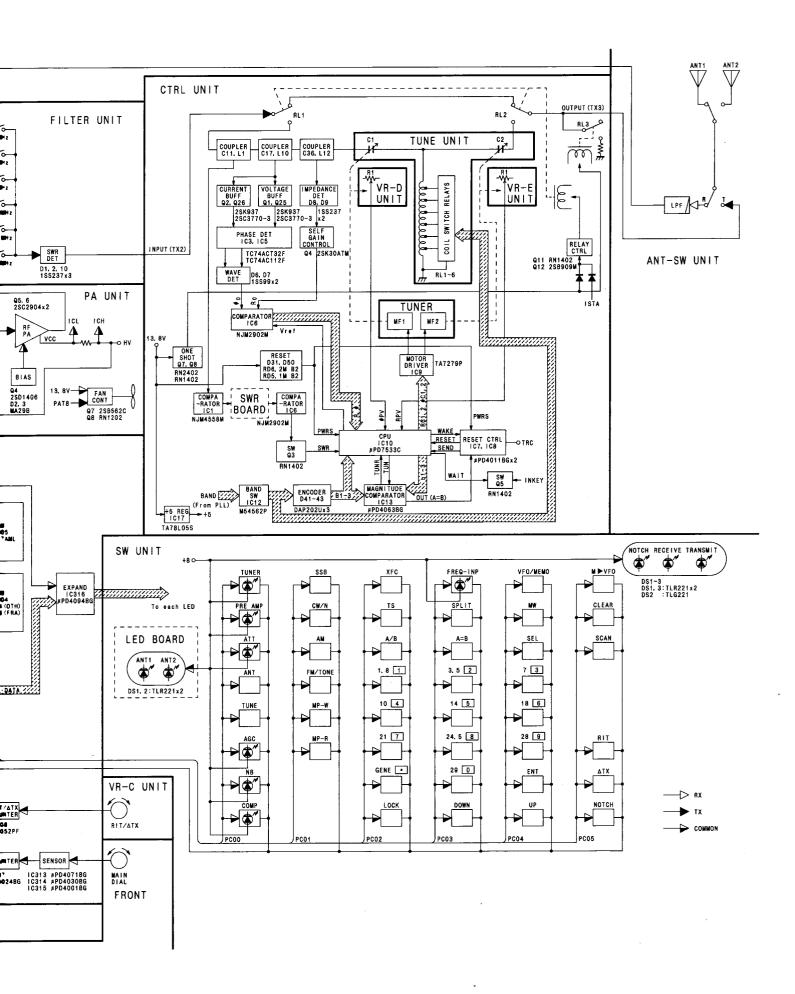
8-6 TUNE UNIT



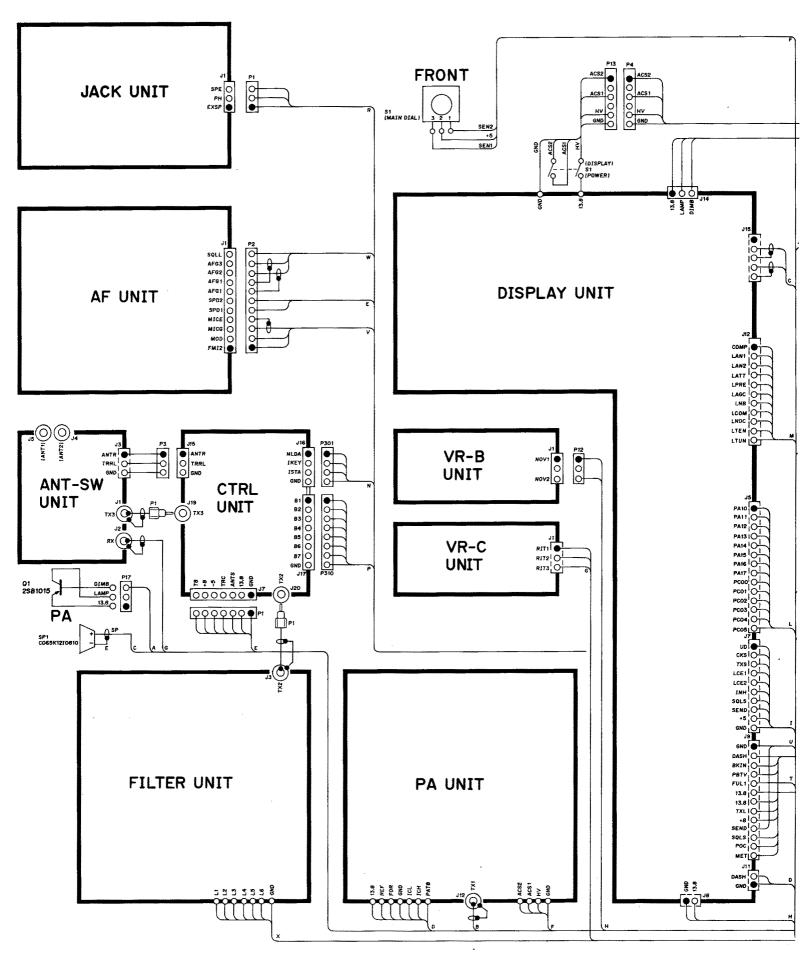
SECTION 9 BLOCK DIAGRAM

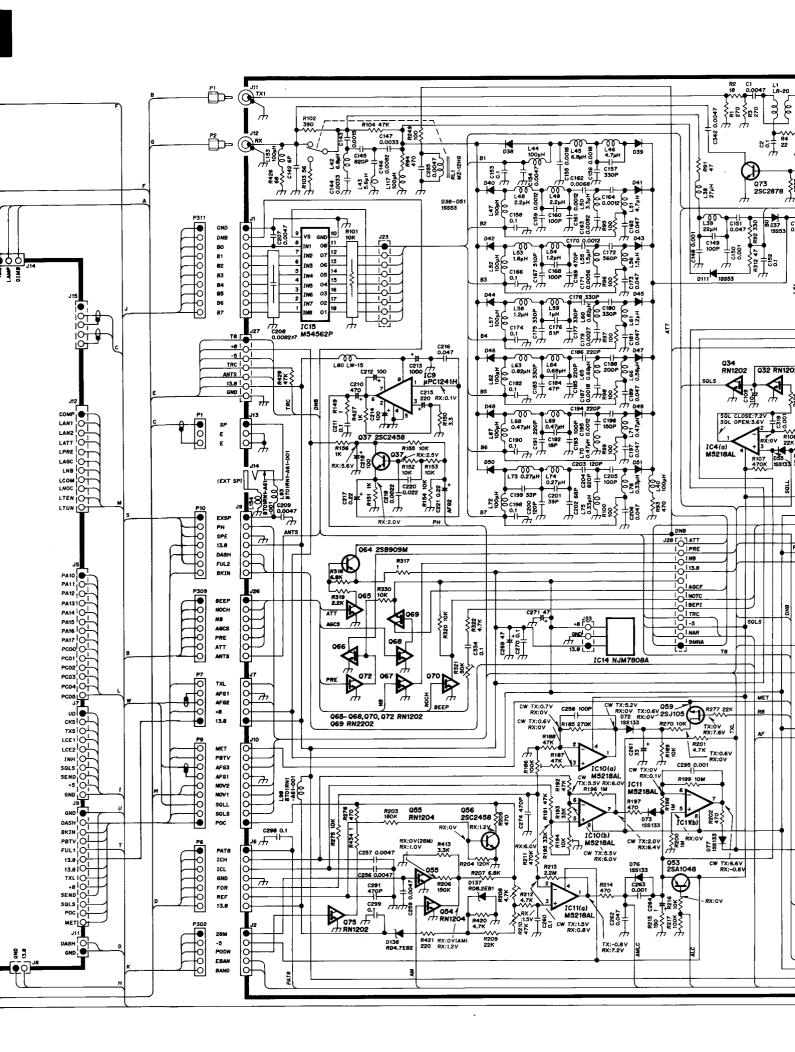


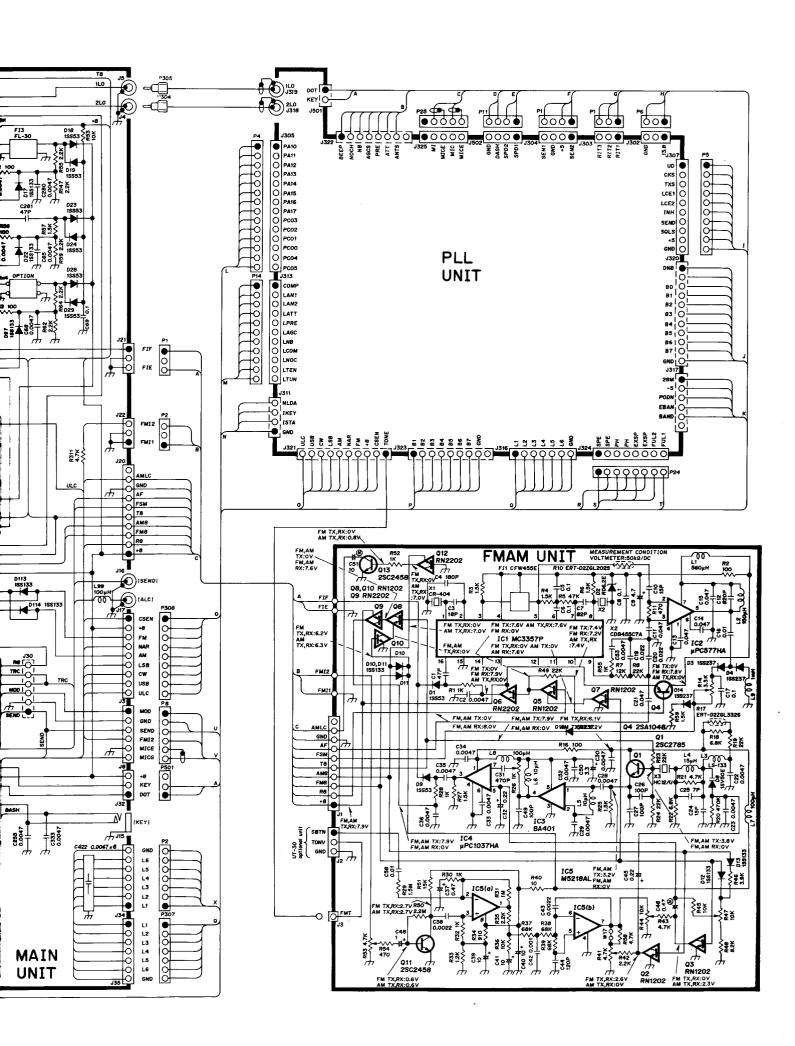


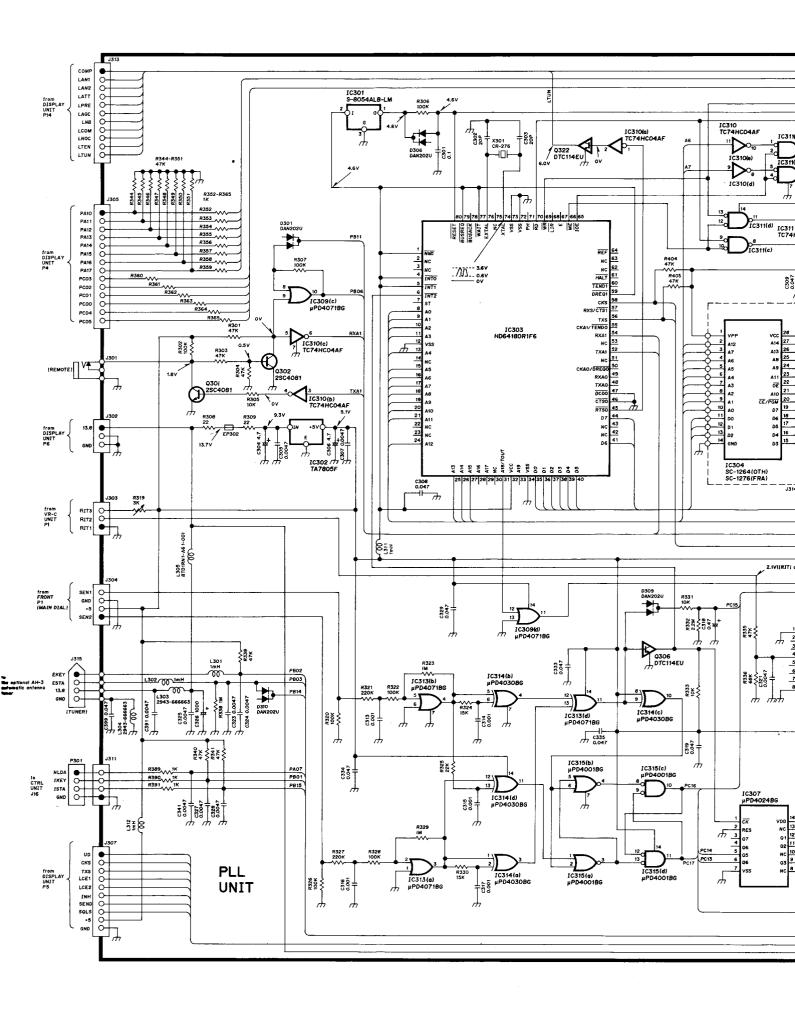


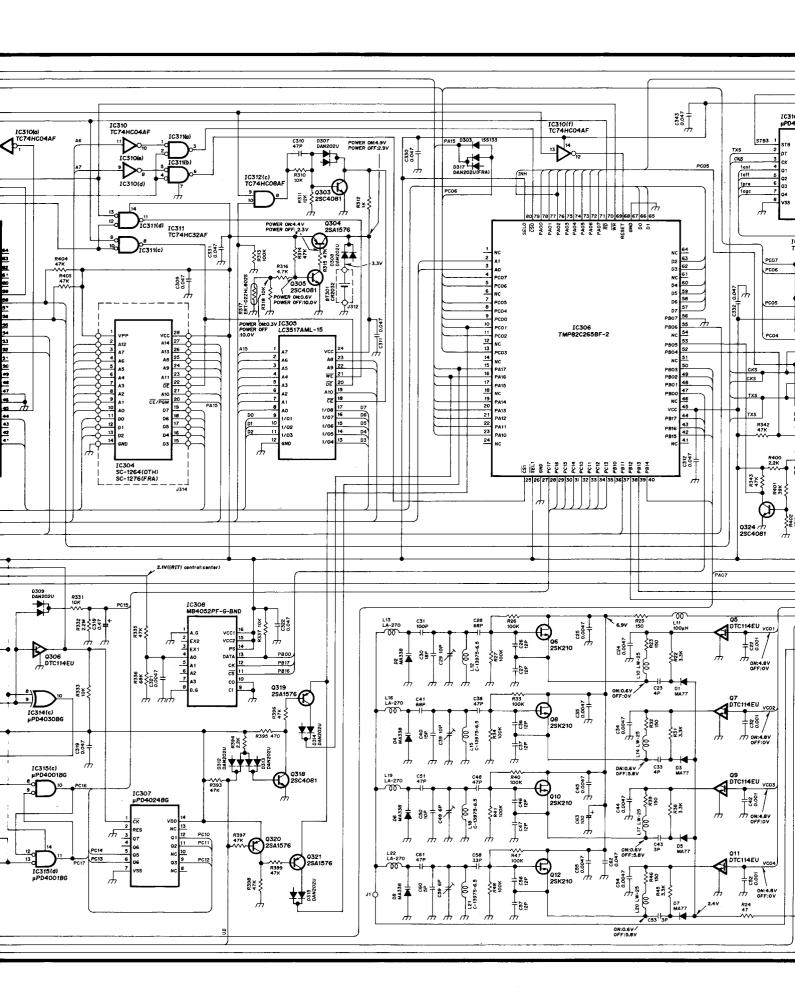
SECTION 10 VOLTAGE DIAGRAM

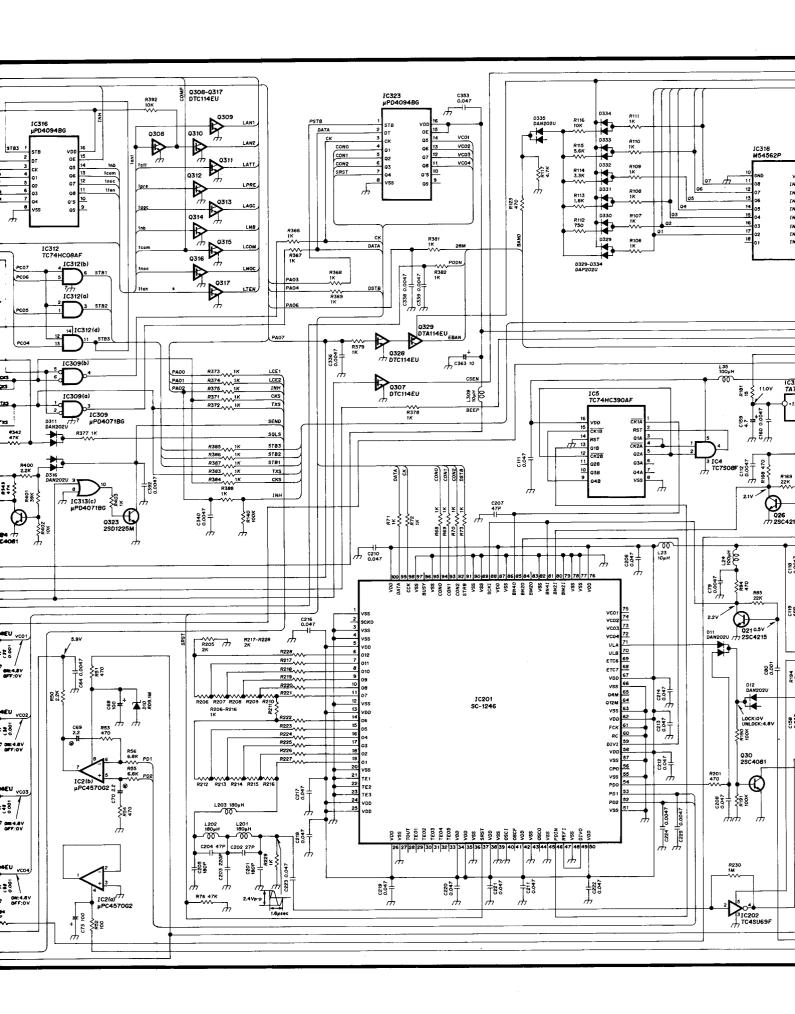


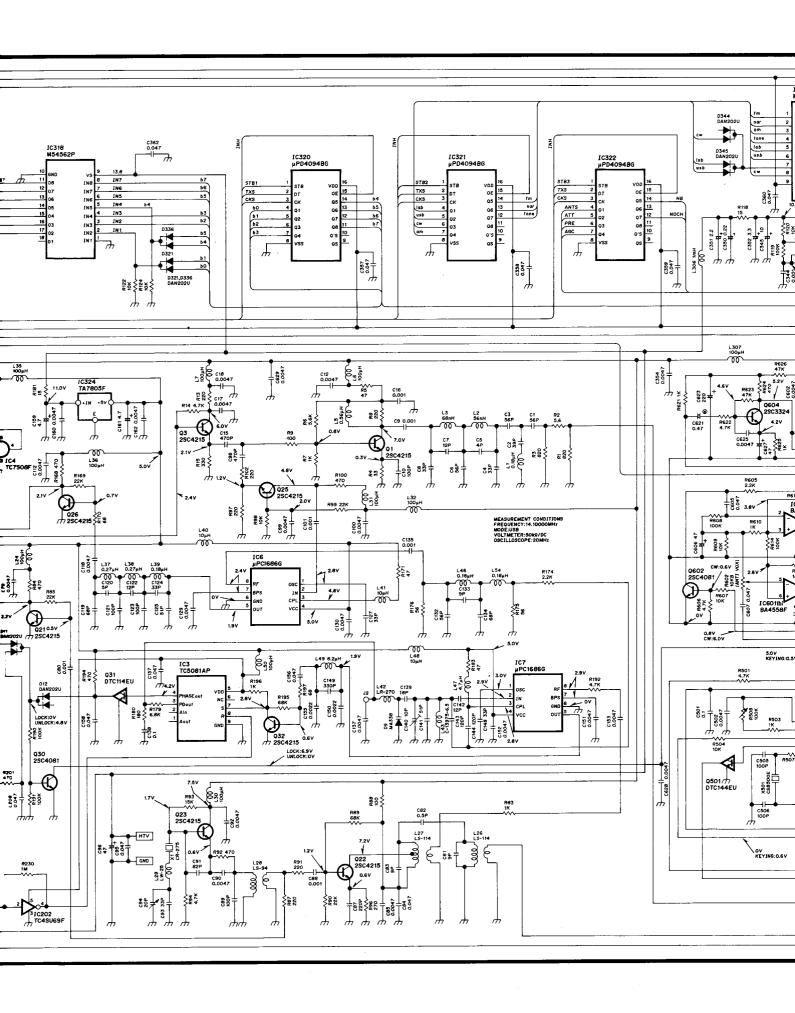


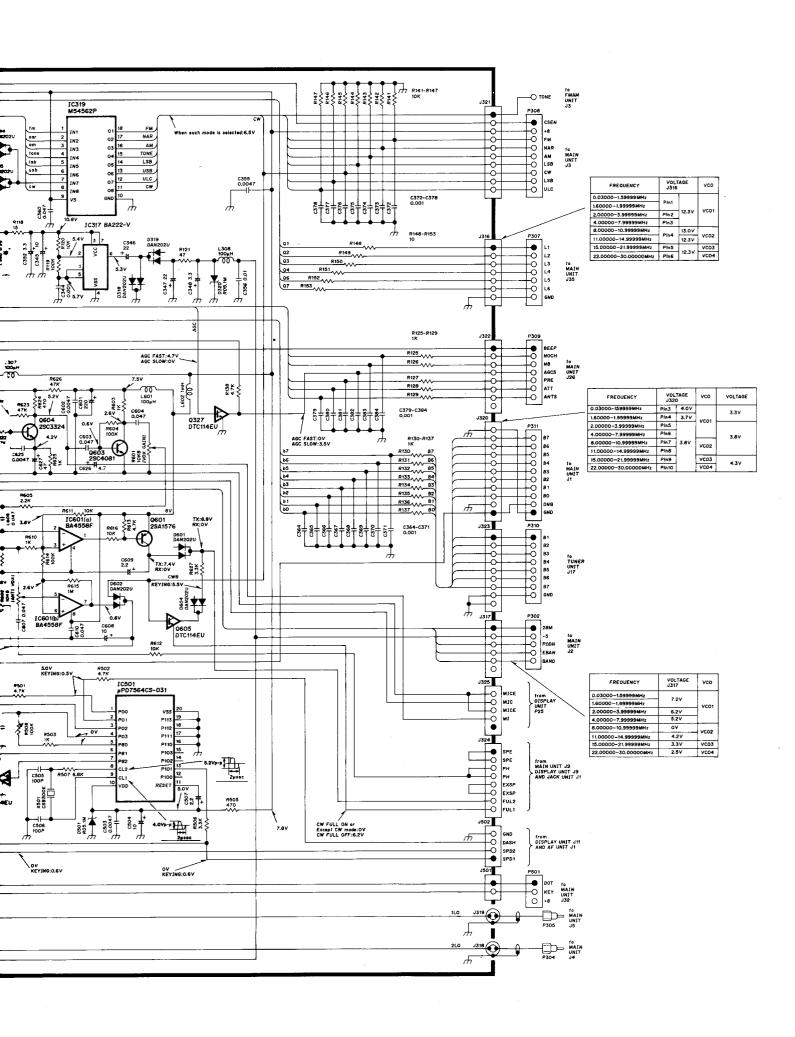


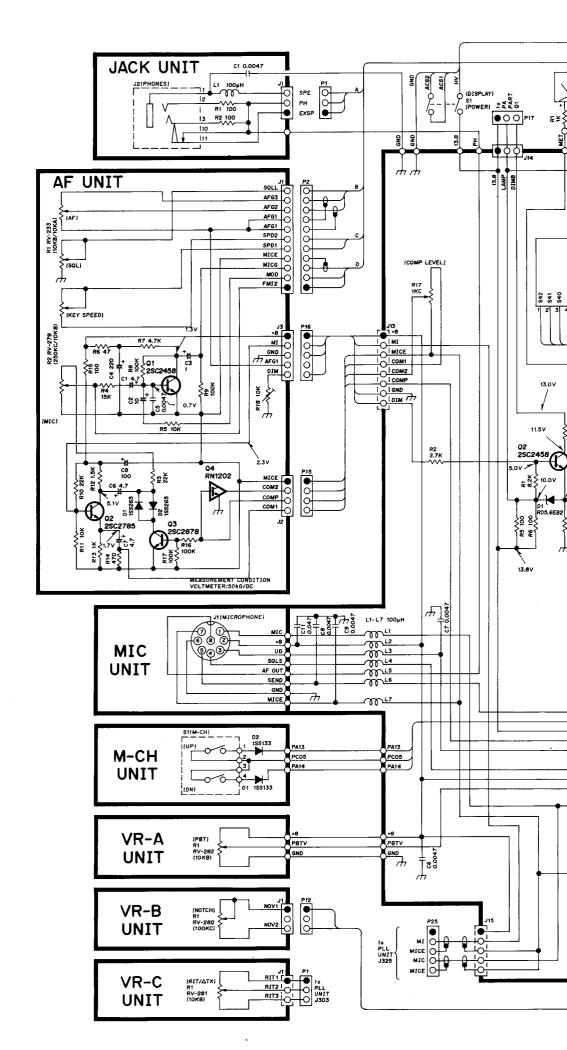


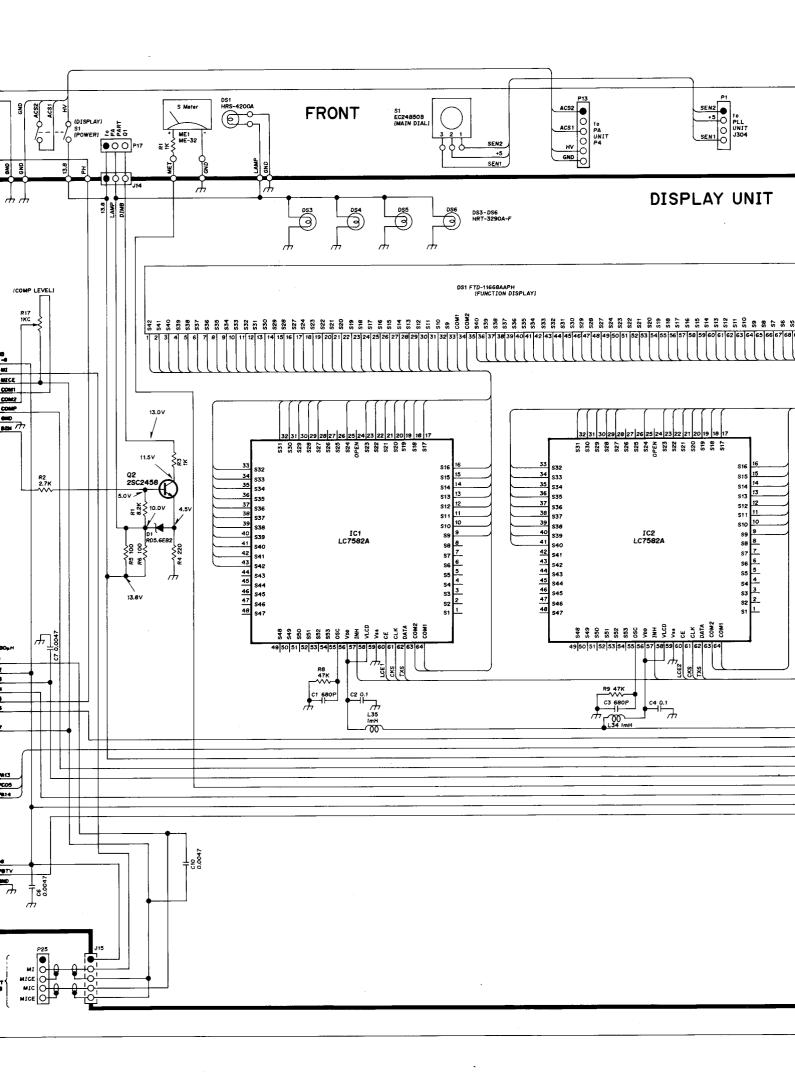


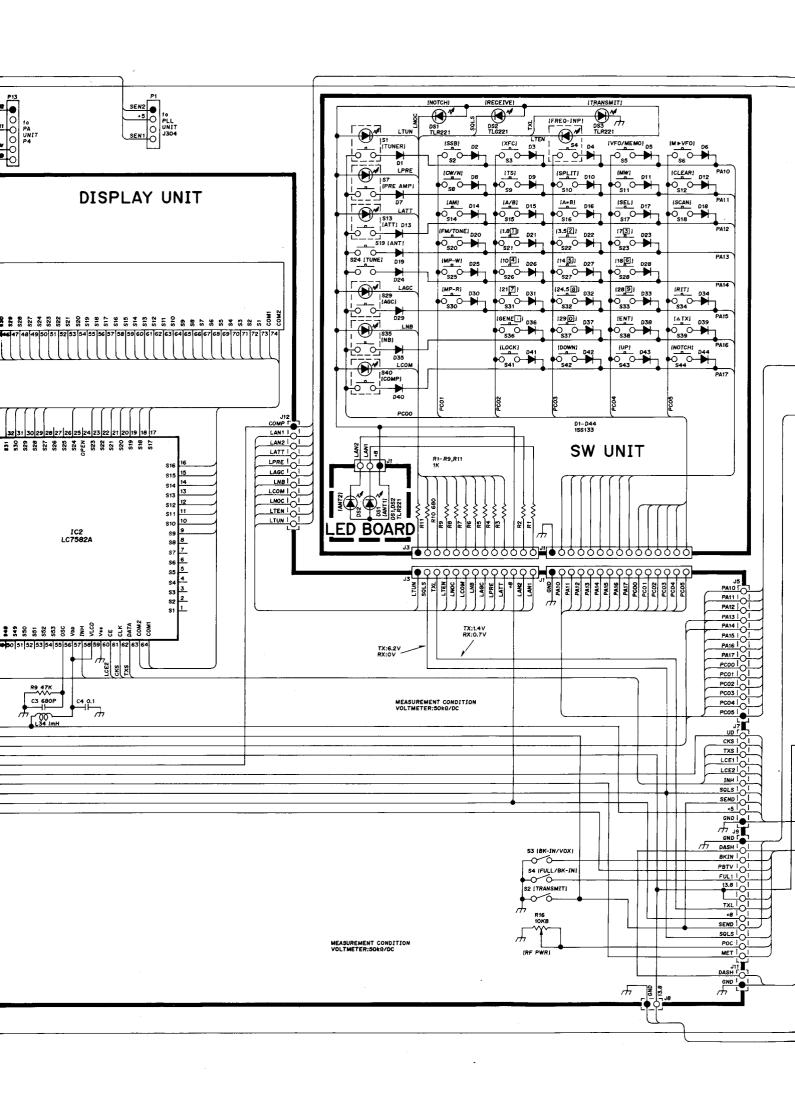


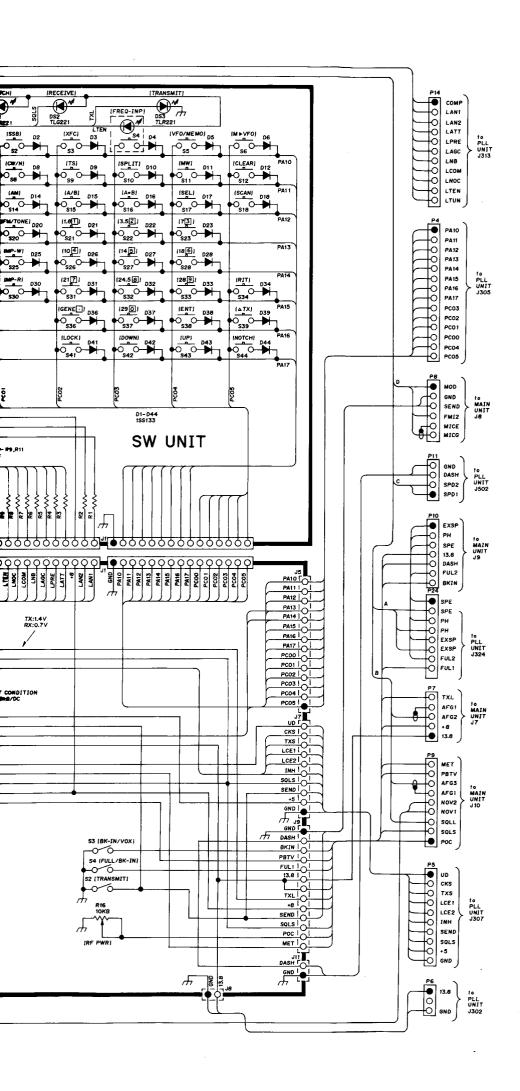


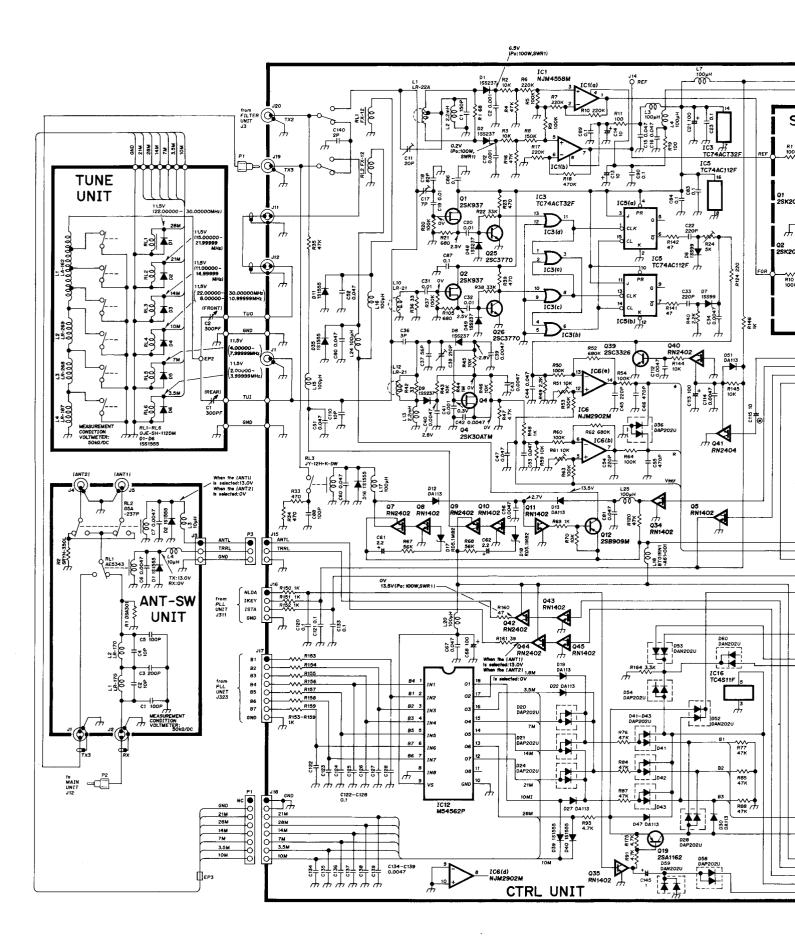


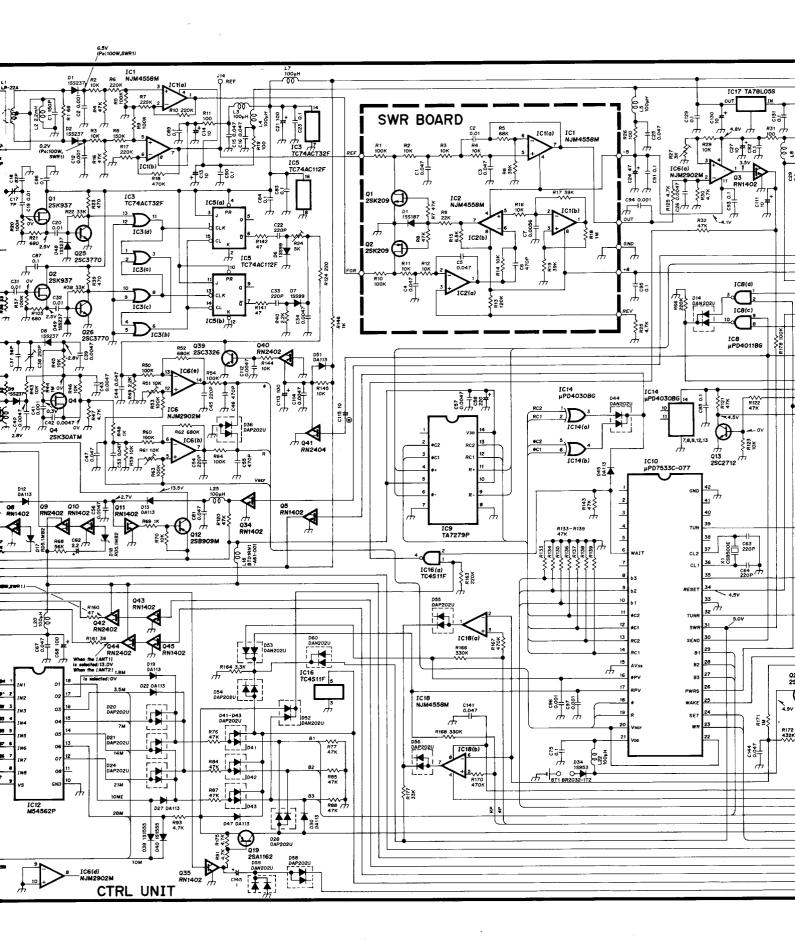


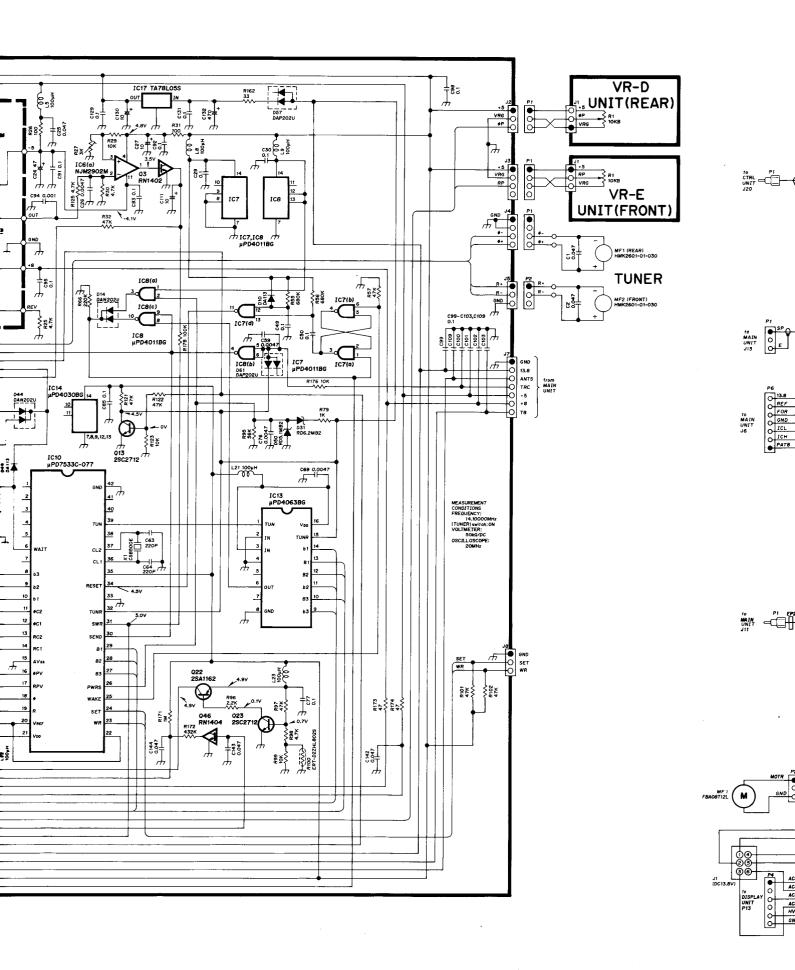


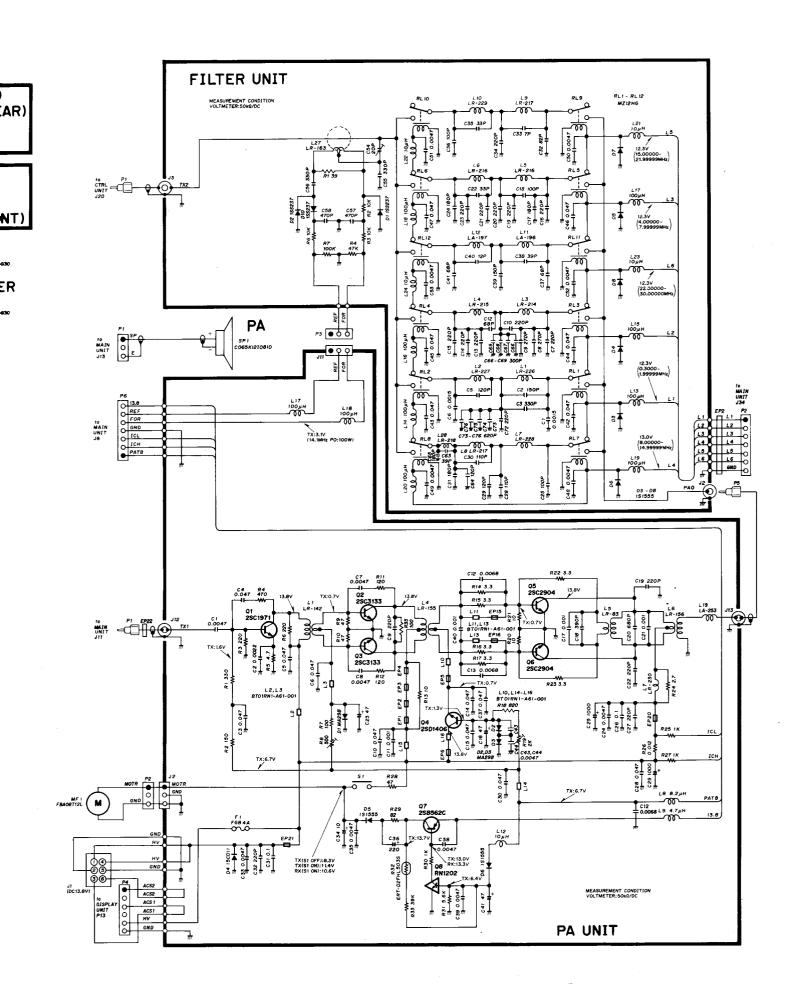












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