



SERVICE MANUAL

HF MARINE TRANSCEIVER

IC-M800

INTRODUCTION

This service manual describes the latest service information for the **IC-M800** HF MARINE TRANSCEIVER at the time of going to press.

If you require assistance or further information regarding the operation and capabilities of the **IC-M800**, contact your nearest authorized Icom Dealer or Icom Service Center.

DANGER

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

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

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

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



ORDERING PARTS

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

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

<SAMPLE ORDER>

1110000540 IC NJM4558D IC-M800 MAIN UNIT 5 pieces
8810000230 Screw PH M3×6 IC-M800 Back panel 10 pieces

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

REPAIR NOTE

1. Make sure a problem is internal before disassembling the transceiver.
2. **DO NOT** open the transceiver until the transceiver is disconnected from a power source.
3. **DO NOT** force any of the variable components. Turn them slowly and smoothly.
4. **DO NOT** short any circuits or electronic parts. An insulated tuning tool **MUST** be used for all adjustments.
5. **DO NOT** keep power ON for a long time when the transceiver is defective.
6. **DO NOT** transmit power into a signal generator or a sweep generator.
7. **ALWAYS** connect a 30 dB~40 dB attenuator between the transceiver and a deviation meter or spectrum analyzer when using such test equipment.
8. **READ** the instructions of test equipment thoroughly before connecting equipment to the transceiver.

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SECTION 1 SPECIFICATIONS

■ GENERAL

- Frequency coverage : Receive : 0.5~30.0 MHz continuously
Transmit : 2.0000~2.9999 MHz
4.0000~4.9999 MHz
6.0000~6.9999 MHz
8.0000~8.9999 MHz
12.0000~13.9999 MHz
16.0000~16.9999 MHz
22.0000~22.9999 MHz
- Mode : J3E (USB, LSB), H3E, R3E, A3E (receive only), A1A, J2B
- Antenna impedance : 50 Ω (unbalanced)
- Power supply requirement : 13.6 V \pm 15 % DC (negative ground)
- Current drain : Receive : 2 A at max. audio output
Transmit : 30 A at max. RF output power
- Usable temperature range : $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$ ($-22^{\circ}\text{F} \sim +140^{\circ}\text{F}$)*
- Frequency stability : ± 15 Hz for 0.5~23 MHz ($-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$; $-22^{\circ}\text{F} \sim +140^{\circ}\text{F}$)
- Dimensions : Transceiver : 287 (W) \times 112 (H) \times 325 (D) mm
11.3 (W) \times 4.4 (H) \times 12.8 (D) in
Remote controller: 287 (W) \times 112 (H) \times 62 (D) mm
11.3 (W) \times 4.4 (H) \times 2.4 (D) in (Projections not included)
- Weight : Transceiver : 6.5 kg (14.3 lb)
Remote controller: 1.0 kg (2.2 lb)

■ TRANSMITTER

- Output power : 150 W
- Spurious emissions : 65 dB below peak output power
- Carrier suppression (SSB) : 50 dB below peak output power
- Unwanted sideband suppression : 55 dB below peak output power (with 1000 Hz AF input)
- Microphone impedance : 600 Ω

■ RECEIVER

- Sensitivity (for 12 dB SINAD) : SSB, CW, FSK : 0.5~1.8 MHz 6.3 μV (-91 dBm)
1.8~30.0 MHz 0.5 μV (-113 dBm)
AM : 0.5~1.8 MHz 30 μV (-77 dBm)
1.8~30.0 MHz 3.16 μV (-97 dBm)
- Spurious response rejection : -70 dB
- Audio output power : 5.0 W with a 4 Ω load
- Audio output impedance : 4~8 Ω
- Clarity variable range : ± 150 Hz in 10 Hz steps

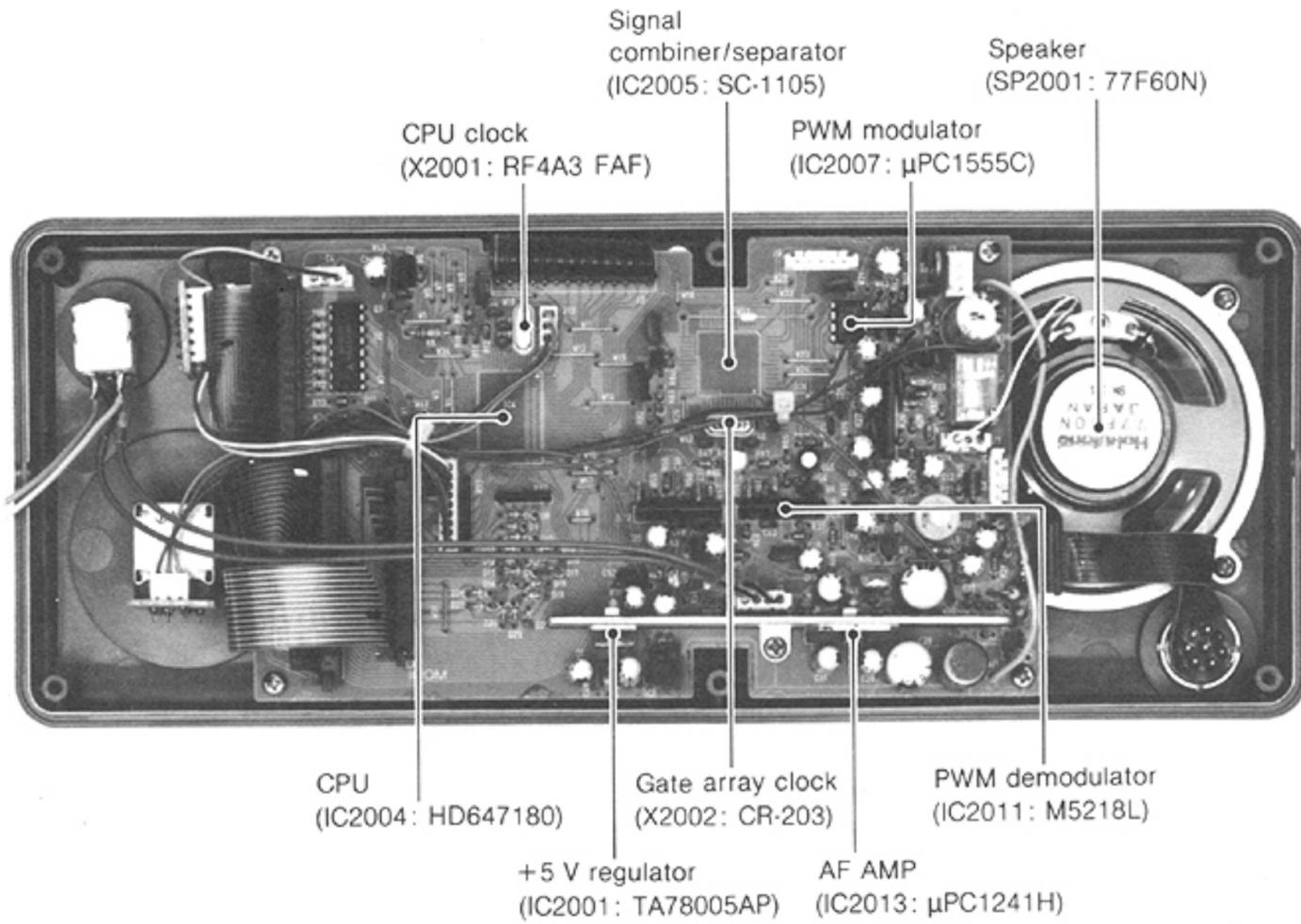
* The function display on the remote controller may not indicate characters clearly under extremely low temperatures around -30°C (-22°F) due to LCD characteristics. However, transmitting and receiving with the IC-M800 function normally around this temperature.

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

SECTION 2 INSIDE VIEWS

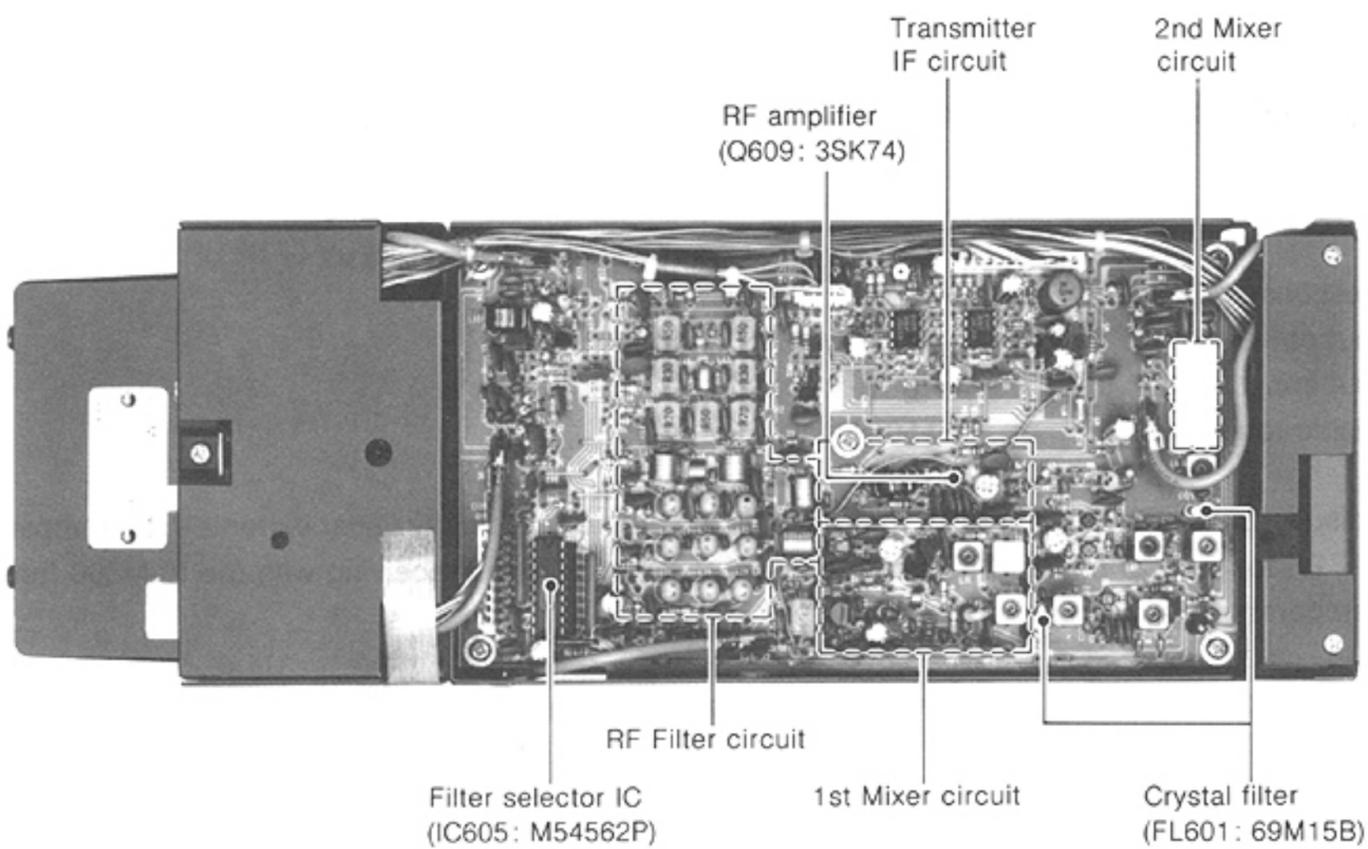
2-1 REMOTE CONTROLLER

• IF UNIT

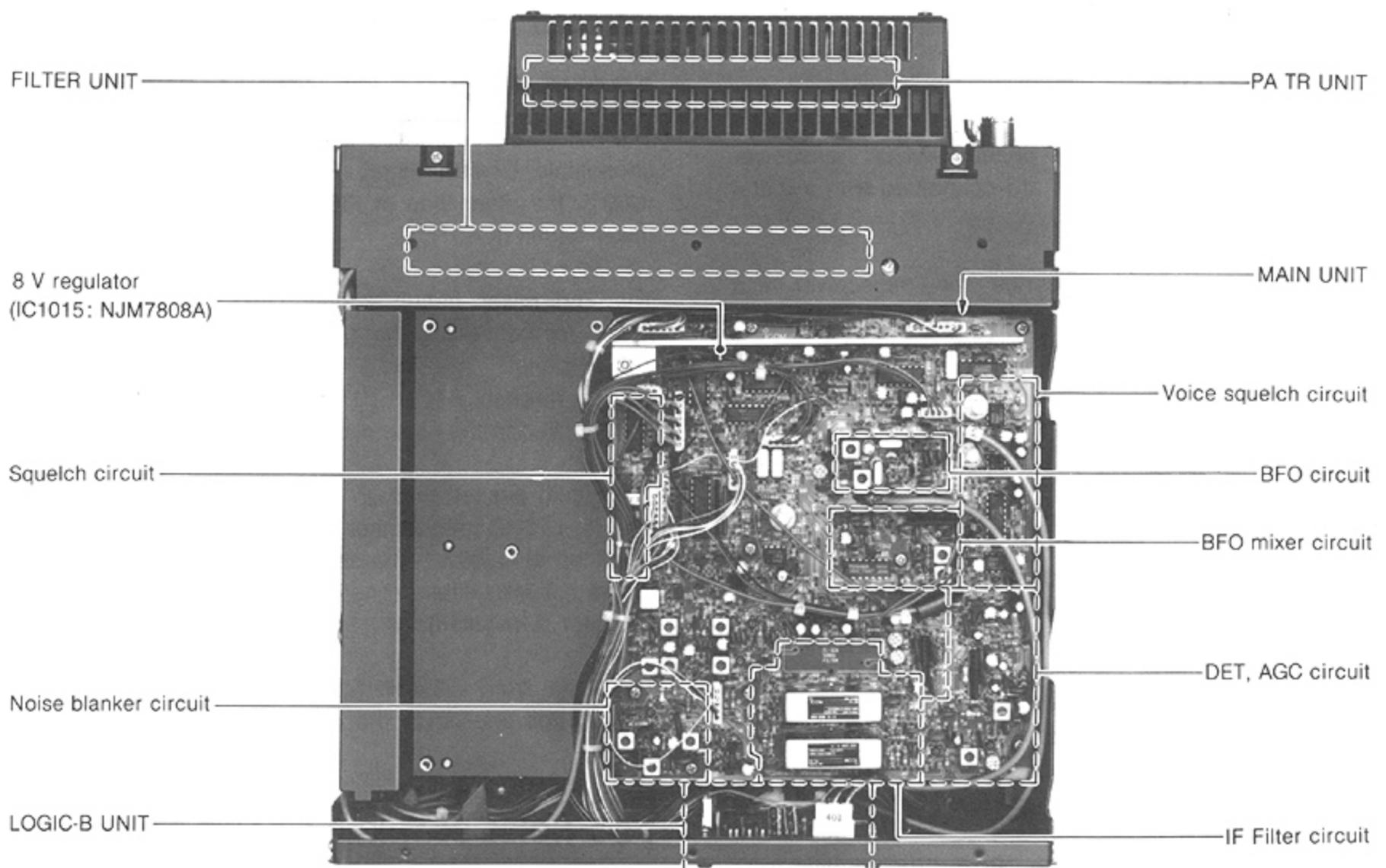


2-2 TRANSCEIVER

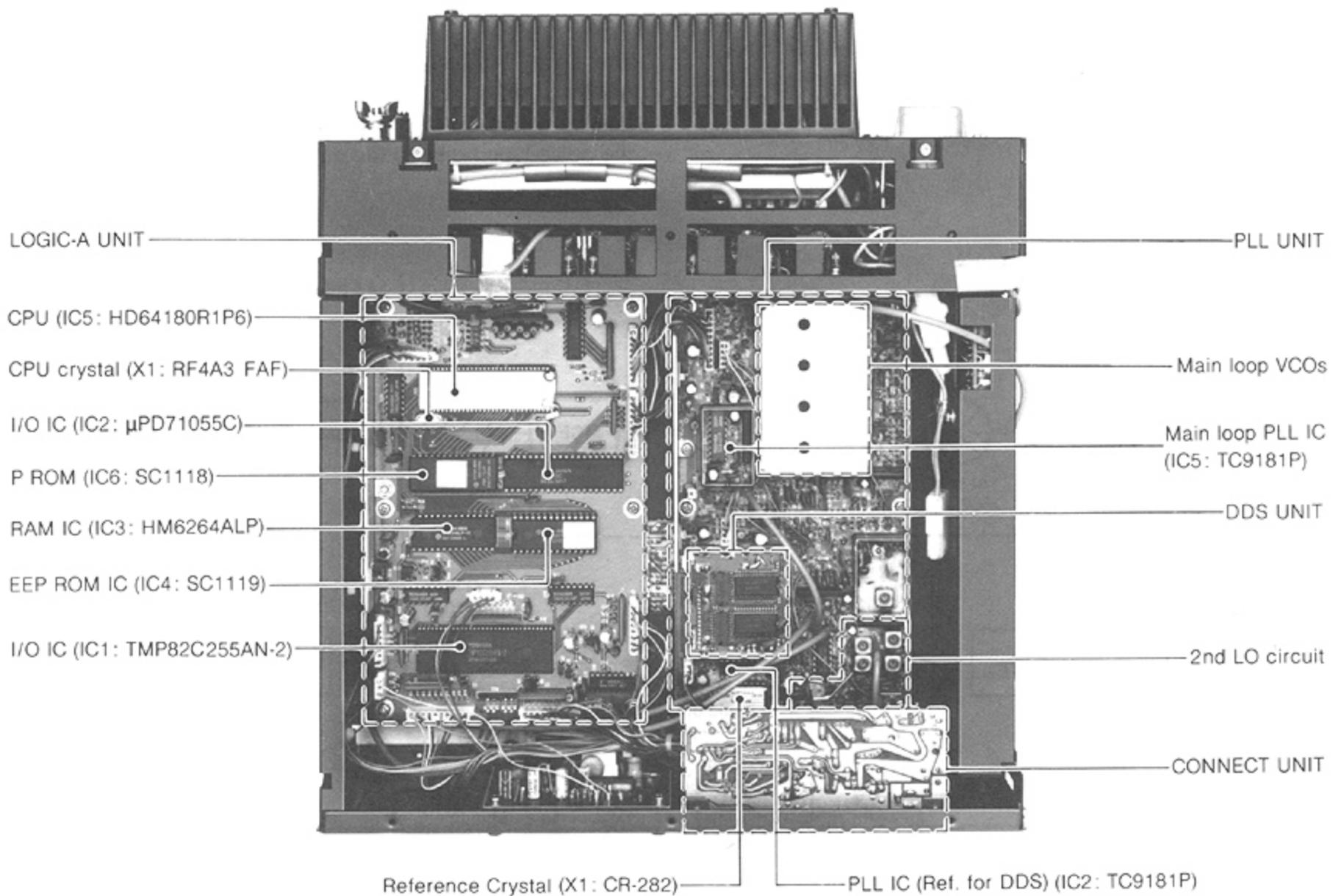
• SIDE VIEW



• TOP VIEW



• BOTTOM VIEW



SECTION 3 CIRCUIT DESCRIPTION

3-1 GENERAL

The IC-M800 mainly consists of the IC-M800 transceiver and remote controller, which are connected with a state-of-the-art optical fiber cable.

The following sections describe the transceiver and remote controller.

3-2 RECEIVER CIRCUITS

3-2-1 RF CIRCUITS (RF UNIT)

Incoming signals pass through the FILTER and ANT SW UNITS and then enter the RF UNIT via J604. The incoming signals are applied to the 1.6 MHz cut-off high-pass filter and the signals below 1.6 MHz are attenuated at 20 dB by L678 and R624. The RF UNIT has 8 RF high-pass filters for signals above 2 MHz and 1 low-pass filter for signals below 2 MHz. The incoming signals pass through one of the high-pass filters or low-pass filter.

These filters are selected with "B0"~"B8" signals from the CPU via the voltage buffer (IC605).

The filtered signals are applied to the 30 MHz cut-off low-pass filter to suppress the image signals. The signals then enter the 1st mixer circuit (Q602, Q603) to be converted to a 69.0115 MHz 1st IF signal. The 1st mixer circuit employs a balanced mixer using low-noise junction FETs (2SK125 x 2) to expand the dynamic range.

3-2-2 IF CIRCUITS (RF AND MAIN UNITS)

The 1st IF signal passes through one of a pair of MCF (Monolithic Crystal Filter; FI601), the 1st IF amplifier (Q601), the other side of FI601 and then enters the 2nd mixer circuit (IC601).

The 2nd mixer circuit adopts DBM (Double Balanced Mixer) for converting the 1st IF signal to a 9.0115 MHz 2nd IF signal. The 2nd IF signal enters the MAIN UNIT, passes through D1007 (D1008 for transmitting) and is then applied to the noise blanker circuits.

The signal passes through the double resonance circuit (L1005, L1006), the blanker gate (D1009~D1012), and is amplified at Q1007. The signal is then applied to one of the two 9 MHz filters (one of 3 filters when an optional CW filter is installed).

The signal from a 9 MHz filter is amplified at Q1045 and Q1046, and applied to the demodulator circuit and AGC circuit.

3-2-3 NOISE BLANKER CIRCUIT (MAIN UNIT)

The IC-M800 uses the noise trigger noise blanker circuit. A portion of the signal from L1005 is amplified at the noise amplifier (Q1001~Q1003), detected at the noise detector (D1001, D1002), and is then separately applied to the noise AGC circuit (Q1004) and the noise gate control.

The noise AGC circuit does not operate for pulse-type noise. The noise AGC circuit reduces the gain of the noise amplifier with only normal signal strength by applying the pulse-type noise to the noise gate control.

RECEIVER CIRCUITS

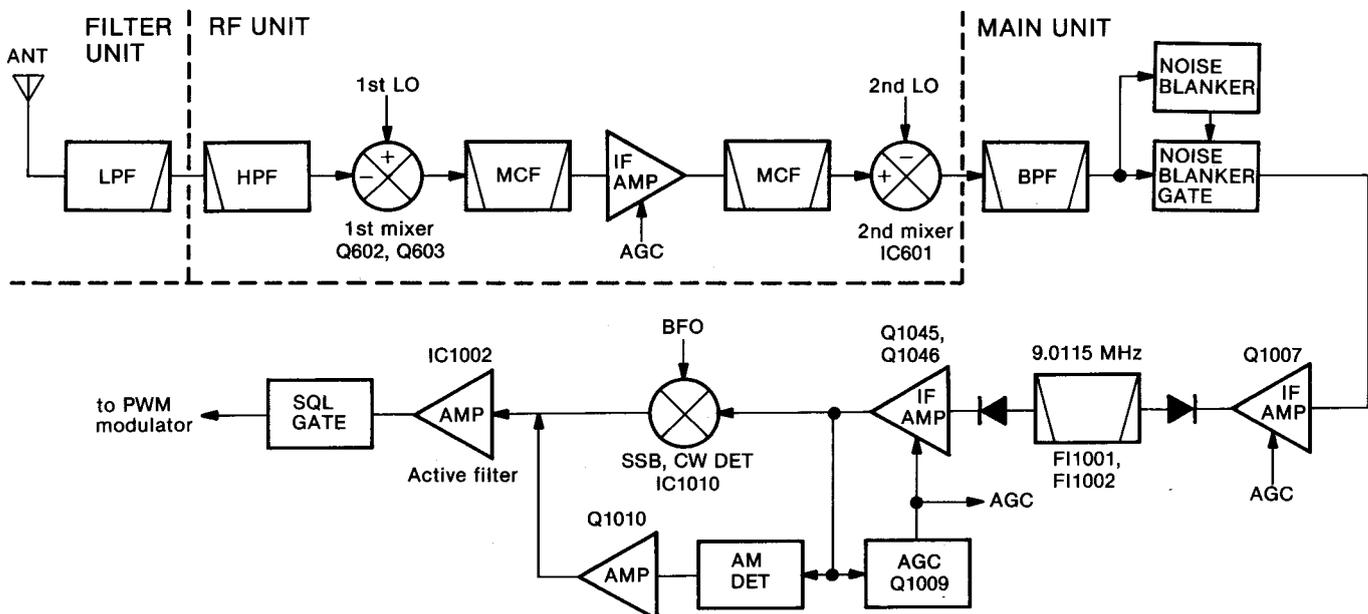


Fig. 1

The noise gate control consists of a pulse amplifier (Q1005) and gate drive (Q1006). When the detected voltage exceeds a threshold level, Q1006 outputs a blanking signal to activate the noise blanker gate (D1009~D1012).

3-2-4 AF CIRCUITS (MAIN UNIT)

The 2nd IF signal from the 9 MHz filter is applied to the product detector (IC1010) while in SSB, CW or FSK mode or to the diode detector (D1006) while in AM mode. The detected AF signal is applied to the active low-pass filter (IC1002b) where 3 kHz signals and above are attenuated. The AF signal enters the LOGIC B UNIT via the squelch gate (IC1008a).

The squelch gate is controlled by the voice squelch control circuit in AM and SSB modes, or the S-meter squelch circuit in CW and FSK modes.

3-2-5 OPTICAL INTERFACE CIRCUIT (LOGIC B UNIT)

The AF signal from the MAIN UNIT is modulated into a PWM (Pulse Width Modulation) signal at IC402, IC404, Q401 and Q402. A PWM modulation trigger signal, generated at IC401, is applied to IC402 pin 2. The resulting PWM signal is re-applied to IC401 to be combined with the serial data from the transceiver CPU (LOGIC A UNIT, IC305).

IC401 is a gate array IC and contains a PWM signal/serial data separator and mixer, PWM modulation trigger signal generator, clock generator, etc.

3-2-6 AF AMPLIFIER (IF UNIT)

The combined signal (PWM signal and serial data) from IC401 on the LOGIC B UNIT is converted into an optical signal at IC503 in the CONNECTOR UNIT to apply the signal to the IC-M800 remote controller. The optical signal is re-converted to the combined signal in the remote controller and is then separated to the PWM signal and serial data at the gate array IC (IC2005).

The PWM signal is demodulated at the active low-pass filters (IC2011a, IC2012b, IC2012a). The demodulated signal passes through the mute switch (Q2010) and the volume control (R2091) and is then power-amplified at IC2013 to drive the speaker.

3-2-7 BFO OSCILLATOR (MAIN UNIT)

The BFO oscillator circuit consists of Q1038, X1001, X1002. The BFO-oscillated frequency is a 5.26 MHz band signal (5.260~5.263) and is mixed with a 3.75 MHz frequency to obtain a 9.01 MHz BFO frequency. The 3.75 MHz frequency is obtained by dividing the 7.5 MHz signal from the PLL UNIT by 2.

This BFO frequency is used for the product detector (IC1010) and balanced modulator (IC1007). The oscillated frequency is shifted by the mode voltages using Q1040 ~Q1043.

3-2-8 VOICE SQUELCH CIRCUIT (MAIN UNIT)

This circuit detects the audio signal during AM or SSB mode receiving, and squelches inconvenient signals such as signals with no modulation, beat signals and noise component signals.

A portion of the AF signal from the active filter (IC1002b) is limiter-amplified at IC1002a and triggers the one-shot multivibrator (IC1004). IC1004 functions as an F-V converter and outputs a voltage corresponding to pulse numbers.

The output from IC1004 is applied to the 3 Hz cut-off low-pass filter (IC1003a) to detect audio signals. The resulting signal is applied to the comparator (IC1003b). IC1003b outputs a "HIGH" signal when an audio signal is detected.

AF CIRCUITS

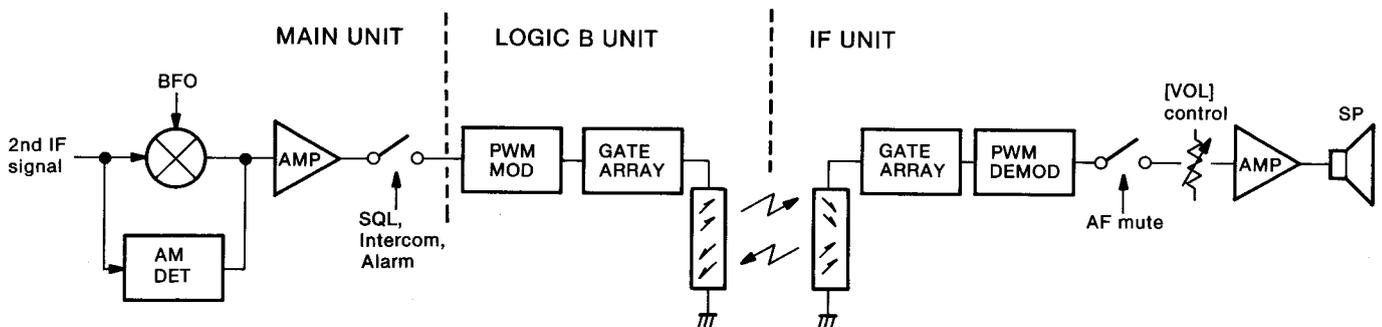


Fig. 2

3-3 TRANSMITTER CIRCUITS

3-3-1 MIC AMPLIFIER (IF UNIT)

Audio signals from the [MIC] connector are amplified at the mic amplifier (IC2010b) in the remote controller and applied to the active low-pass filter (IC2010a) where the 3 kHz signals and above are attenuated. Microphone gain is controlled by the mic AGC circuit (D2005, D2006, Q2007).

The resulting signals are modulated into a PWM signal at IC2007, IC2011a, Q2008 and Q2009, and applied to the gate array IC (IC2005) to be combined with the serial data from the remote controller CPU (IC2004). The combined signal is applied to IC2015 to be converted to optical signals. The optical signal is then applied to the IC-M800 transceiver and then enters the gate array IC (IC401) after converting to an electric signal. IC401 separates the PWM signal and serial data in the signal.

The PWM signal is demodulated at the active low-pass filters (IC403b, IC403a, IC404b) and is then applied to the MAIN UNIT.

3-3-2 BALANCED MODULATOR (MAIN UNIT)

The signal passes through the modulation gate (IC1009a), and is applied to the balanced modulator circuit (IC1007) to be converted to a 9.01 MHz IF signal.

R1136 and R1138 adjust the balance level of IC1007 for maximum carrier suppression. In CW or while tuning the antenna, a mode voltage (CW or TUNE) upsets the balance to create a carrier signal.

IC1007 outputs a double sideband signal and passes through a 9.01 MHz filter to create an SSB signal. The signal is amplified at the IF amplifiers (Q1013~Q1015) and is then applied to the RF UNIT via P1001 (RF UNIT, J601).

In H3E (AM) or R3E (USB) mode, the 9.01 MHz BFO signal amplified at Q1016, is applied to the IF amplifier (Q1014) as a carrier signal. In R3E, Q1044 is turned ON, and the gain of Q1016 is reduced to obtain an appropriate carrier level.

In CW mode, a keying control signal from IC1005 is applied to the IF amplifiers (Q1014, Q1015) and intermits the IF signal to obtain a CW signal.

3-3-3 IF CIRCUITS (RF UNIT)

The 9.01 MHz IF signal enters the RF UNIT, passes through a 10 MHz cut-off low-pass filter, and is then converted to a 69.0115 MHz IF signal at IC601. IC601 is also used in receiving.

The IF signal passes through the MCF (F1601) and is then converted to the displayed frequency (RF signal) at the balanced mixer (Q607, Q608).

3-3-4 RF CIRCUITS (RF, PA TR AND PA UNITS)

The RF signal from Q607 and Q608 is amplified at Q609. The 1st and 2nd gate bias voltages of Q609 are controlled by the transmit gain control and APC circuits respectively. The amplified signal passes through one of the 7 high-pass filters (2.0~22.999 MHz HF marine bands), is amplified at the predrive amplifier (Q618), and is then applied to the PA TR UNIT. Output level from the RF UNIT is approx. +6 dBm.

The entering signal from the RF UNIT is amplified at the 1st drive amplifier (Q801), the 2nd drive amplifier (Q802, Q803) and the power amplifier (Q804, Q805) to obtain stable 150 W RF output power. The 1st drive amplifier consists of a class A amplifier, and both the 2nd drive amplifier and the power amplifier consist of a class AB push-pull amplifier.

TRANSMITTER CIRCUITS

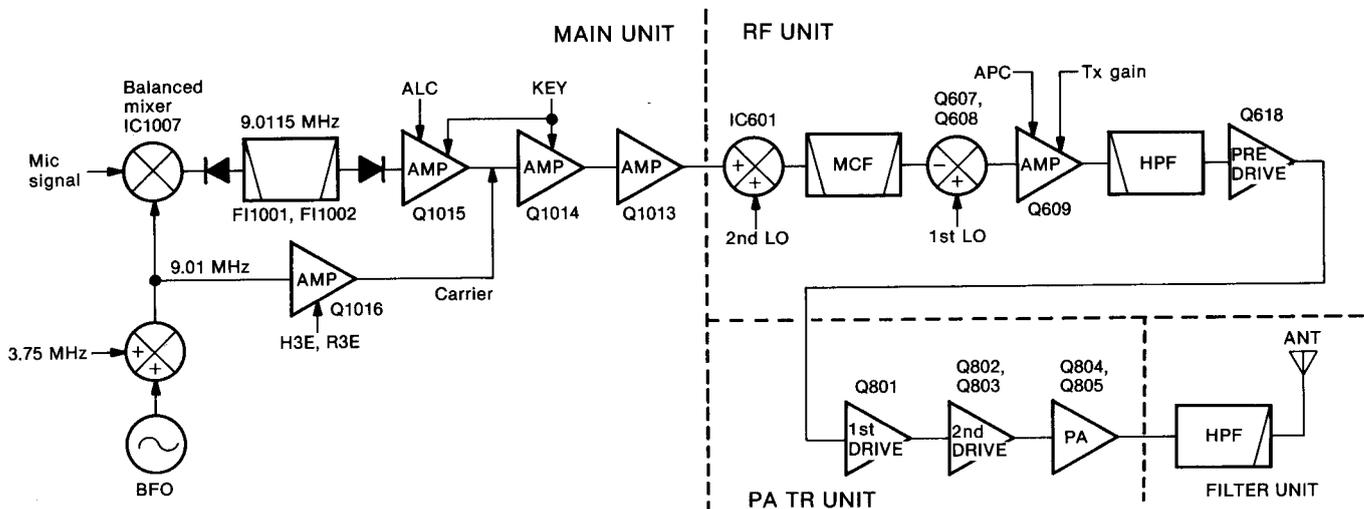


Fig. 3

The resulting signal is applied to the ANT SW UNIT, FILTER UNIT and then to the antenna connector.

A 0.012 Ω resistor (PA UNIT, R871), inserted in the HV line, is provided for the IC APC circuit. A voltage generated at both terminals of R871 is applied to the RF UNIT via the "IC+" and "IC-" signal line.

Thermal switches S801 and S802 detect the temperature of the power amplifier (Q804, Q805), and control the cooling fan speed.

| TEMPERATURE °C (°F) | | Below 50 (122) | 50~90 (122~194) | Above 90 (194) |
|---------------------|----------|-------------------|--------------------|-------------------|
| THERMAL SWITCH | S801 | OFF | OFF | ON |
| | S802 | OFF | ON | ON |
| COOLING FAN SPEED | RECEIVE | STOP | LOW | MID LOW |
| | TRANSMIT | STOP | MID HIGH | HIGH |

Table 1

3-3-5 ANTENNA SWITCHING CIRCUIT (ANT SW UNIT)

The RF signal from the PA TR UNIT passes through a diode switch (D921) and the FILTER UNIT, and is then applied to the antenna connector through this unit again. Approx. 200 mA bias current is supplied from Q922 and Q924 to D921 to prevent rectification of the RF signal. A surge absorber (R933) protects the transceiver from a lightning surge voltage.

3-3-6 FILTER UNIT

The FILTER UNIT has 8 low-pass filters. The signal from the PA TR UNIT, applied to one of the low-pass filters depending on the transmit frequency range, suppresses high harmonic components.

The filtered signal passes through the SWR detector circuit (L1521) and is then applied to the ANT SW UNIT. The forward signal from L1521 is detected at D1508 and applied to the IF UNIT as the "FOR" voltage. The reflection signal from L1521 is detected at D1508 and applied to the IF UNIT as the "REF" voltage.

SWR DETECTOR CIRCUIT

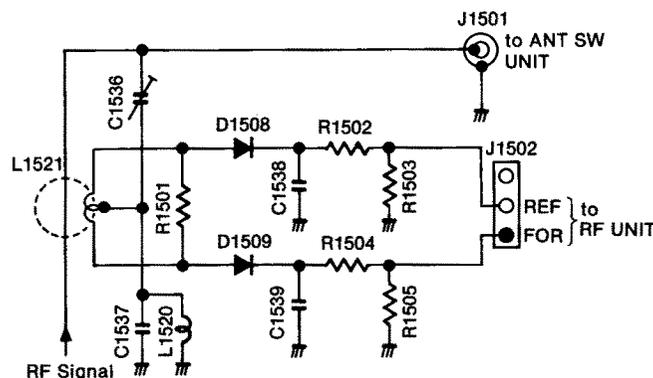


Fig. 4

3-3-7 ALC CIRCUIT (MAIN UNIT)

A portion of the IF signal from the IF amplifier (Q1013) is detected at D1044 and D1045, amplified at IC1006a, and is applied to IC1006b pin 2. The reference voltage, determined by R1187, is applied to IC1006b pin 3. The output voltage from IC1006b pin 1 is applied to the 1st gate of Q1015.

The output voltage from IC1006a (pin 7) is applied to the RF UNIT as a reference voltage for the transmit gain control circuit via J1002 ("FORA" line).

An external ALC input from the [ACC] sockets is applied to Q1020. ALC operation is identical to that of the internal ALC.

3-3-8 TRANSMIT GAIN CONTROL CIRCUIT (RF UNIT)

The "FOR" voltage from the FILTER UNIT is applied to IC603 pin 3. To control the RF output power in some versions, the "POL" or "LOW2" signal is also applied to IC603 pin 2 as the reference voltage.

IC603 pin 1 outputs RF meter voltage, and is applied to both the transmit gain control circuit (IC603 pin 6) and meter switching IC (MAIN UNIT, IC1016). The "FORA" voltage from the MAIN UNIT is also applied to IC603 pin 5 as the reference voltage.

When the "FOR" voltage exceeds the reference voltage, IC603 controls the RF amplifier (Q609) to reduce the output power until the "FOR" and reference voltages are equalized.

3-3-9 APC CIRCUITS (RF UNIT)

The APC circuits protect the final transistors from high SWR and excessive current. The "REF" voltage from the FILTER UNIT is applied to Q613. The amplified signal is applied to IC604 pin 2. The reference voltage, determined by R661 and R662, is applied to IC604 pin 3. The output voltage from IC604 pin 1 is applied to the 2nd gate of Q609 via D631 to reduce the output power.

The output voltage of the IC APC amplifier (IC604 pin 7) is also applied to IC604 pin 2 to prevent the excessive current.

3-4 PLL CIRCUITS

3-4-1 GENERAL DESCRIPTION

The IC-M800 uses a dual loop PLL system. A main loop PLL uses 4 VCO circuits for all HF marine frequency coverage within 500 kHz steps. A sub loop PLL uses DDS (Direct Digital Synthesizer) System for 500 kHz coverage within 10 Hz steps. The DDS System provides a rapid lockup time and high quality frequency oscillation.

3-4-6 SUB LOOP (PLL UNIT)

The sub loop uses the DDS (Direct Digital Synthesizer) System to generate a 66.0115~66.5115 MHz signal in 10 Hz steps. The BFO shift signal is mixed in the sub loop for compensating for the center frequency.

The generated signal at the VCO (Q9) is amplified at Q6 and is mixed with the 60 MHz signal (reference oscillator multiplied by 2) to be converted into a 6.0115~6.5115 MHz signal at IC4.

The converted signal passes through a bandpass filter and is then mixed with the BFO oscillator signal to obtain a 748.5~1248.5 kHz signal. The signal is then applied to the DDS UNIT to be converted to the lock voltage using N-data from the LOGIC A UNIT. The BFO oscillator signal, "5.3M" line, is 5.2630 MHz \pm mode shift frequency.

3-4-7 DDS REFERENCE OSCILLATOR (PLL UNIT)

X2 oscillates a 10.48575949 MHz signal as a DDS reference frequency. The PLL circuit provides frequency control and consists of the PLL IC (IC2), loop filter (R34, C48) and varactor diode (D2). The PLL reference frequency (7.5 MHz) is obtained from dividing the 30 MHz signal by 4 at IC1.

3-5 LOGIC CIRCUITS

3-5-1 TRANSCEIVER LOGIC CIRCUIT (LOGIC A UNIT)

IC311 resets the CPU (IC305) when the power is turned ON. The CPU starts working after reading a program from the PROM (IC306). The RAM (IC303) provides a CPU working area.

IC304 is an EEPROM (Electrically Erasable and Programmable ROM) which stores memory information with no backup power source.

IC308 is an A/D converter and converts an S/RF indicator signal into 8-bit serial data. The serial data are applied to the gate array IC (LOGIC B UNIT, IC401) and then to the remote controller.

3-5-2 REMOTE CONTROLLER LOGIC CIRCUIT (IF UNIT)

IC2006 resets the CPU (IC2004) when the power is turned ON. The CPU starts working after reading an inside program.

The CPU receives the control signals from the front panel switches and controls. The signals are converted into serial data to send to the IC-M800 transceiver.

The CPU also receives serial data from the IC-M800 transceiver and outputs signals such as an S/RF indicator signal or AF mute signal.

3-5-3 ALARM CIRCUIT (LOGIC B UNIT)

IC407 is an IC chip for generating alarm signals (1300 Hz and 2200 Hz). The frequency is changed in 250 msec. cycles and is generated for 50 sec. "ALM" and "ALH" signals are applied to IC407 for controlling.

3-6 GATE ARRAY PORT ALLOCATIONS (LOGIC B UNIT IC401 AND IF UNIT IC2005)

• INPUT PORT

| PORT NAME | PIN NUMBER | DESCRIPTION |
|------------|------------|---|
| OPT IN | 1 | Inputs a signal from the photocoupler. |
| XT1, XT2 | 4, 5 | Connects a crystal for generating a gate array clock signal. |
| RST | 18 | Inputs a reset signal for initializing the gate array. |
| AFS | 24 | Inputs a sampling signal for transferring the PWM signals. |
| DATA IN | 34 | Inputs serial data from the transceiver or remote controller CPU. |
| PWMA, PWMB | 40, 41 | Inputs a PWM signal received or a microphone signal. |

• OUTPUT PORT

| PORT NAME | PIN NUMBER | DESCRIPTION |
|-----------|------------|--|
| MIC | 29 | Outputs a PWM signal separated from the photocoupler signal. |
| DATA OUT | 38 | Outputs separated serial data from the transceiver or remote controller CPU. |
| Q14B | 47 | Outputs a trigger signal to the PWM modulator. |
| OPT OUT | 48 | Outputs serial data combined with a PWM signal to the photocoupler. |

SECTION 4 MECHANICAL PARTS AND DISASSEMBLY

4-1 REMOTE CONTROLLER AND ACCESSORIES

• REMOTE CONTROLLER

| LABEL NUMBER | ORDER NO. | DESCRIPTION | QTY. | LABEL NUMBER | ORDER NO. | DESCRIPTION | QTY. |
|--------------|------------|----------------------------------|------|--------------|------------|---------------------------------|------|
| ① | 8810000610 | PH M3 × 12 SUS | 2 | ⑰ | 8930015270 | LCD cover | 1 |
| ② | 8930016950 | Interface plate | 1 | ⑱ | 8810001000 | PH B0 M2 × 6 | 4 |
| ③ | 8810000600 | PH M3 × 10 SUS | 2 | ⑲ | 8810001100 | PH B0 M3 × 5 | 4 |
| ④ | 8930015240 | Connector plate | 1 | ⑳ | 8930015220 | Speaker plate | 1 |
| ⑤ | 8810005940 | PH A0 M3 × 30 SUS | 6 | ㉑ | 8930017110 | MIC connector plate | 1 |
| ⑥ | 8850000690 | Flat washer M3 (3 × 7 × 0.5) SUS | 6 | ㉒ | 8830000050 | VR nut (B) | 2 |
| ⑦ | 8810002170 | FH M3 × 6 | 2 | ㉓ | 8830000040 | VR nut (A) | 1 |
| ⑧ | 8010008740 | Controller rear panel | 1 | ㉔ | 8210004760 | Controller front panel | 1 |
| ⑨ | 8930015230 | Lock plate | 2 | ㉕ | 8610005760 | Knob N149 [CLARITY, PWR/VOL] | 2 |
| ⑩ | 8930015250 | Panel rubber seal | 1 | ㉖ | 8610005770 | knob N148 [MAIN] | 1 |
| ⑪ | 8930015210 | JACK P.C. Board plate | 1 | ㉗ | 8210004741 | 611 Membrane switch-1 | 1 |
| ⑫ | 8810003360 | Set screw (C) M3 × 6 | 2 | ㉘ | 2510000440 | Speaker 77F60N | 1 |
| ⑬ | 8930002970 | Rubber seal (B) | 1 | ㉙ | 2210000590 | Switch SRRS1S017A | 1 |
| ⑭ | 8930004220 | Rubber seal plate (B) | 1 | ㉚ | 7210000330 | Variable resistor RK1241212005A | 1 |
| ⑮ | 8810001110 | PH B0 M3 × 6 | 4 | ㉛ | 2250000020 | Rotary encoder SRB18100 25KC | 1 |
| ⑯ | 8850000110 | Flat washer M2 Ni BS | 4 | ㉜ | 9061100120 | Flat cable UL2468 | 1 |

Screw abbreviations PH: Pan head FH: Flat head A0, B0: Self-tapping screw
ZK: Black Ni: Nickel

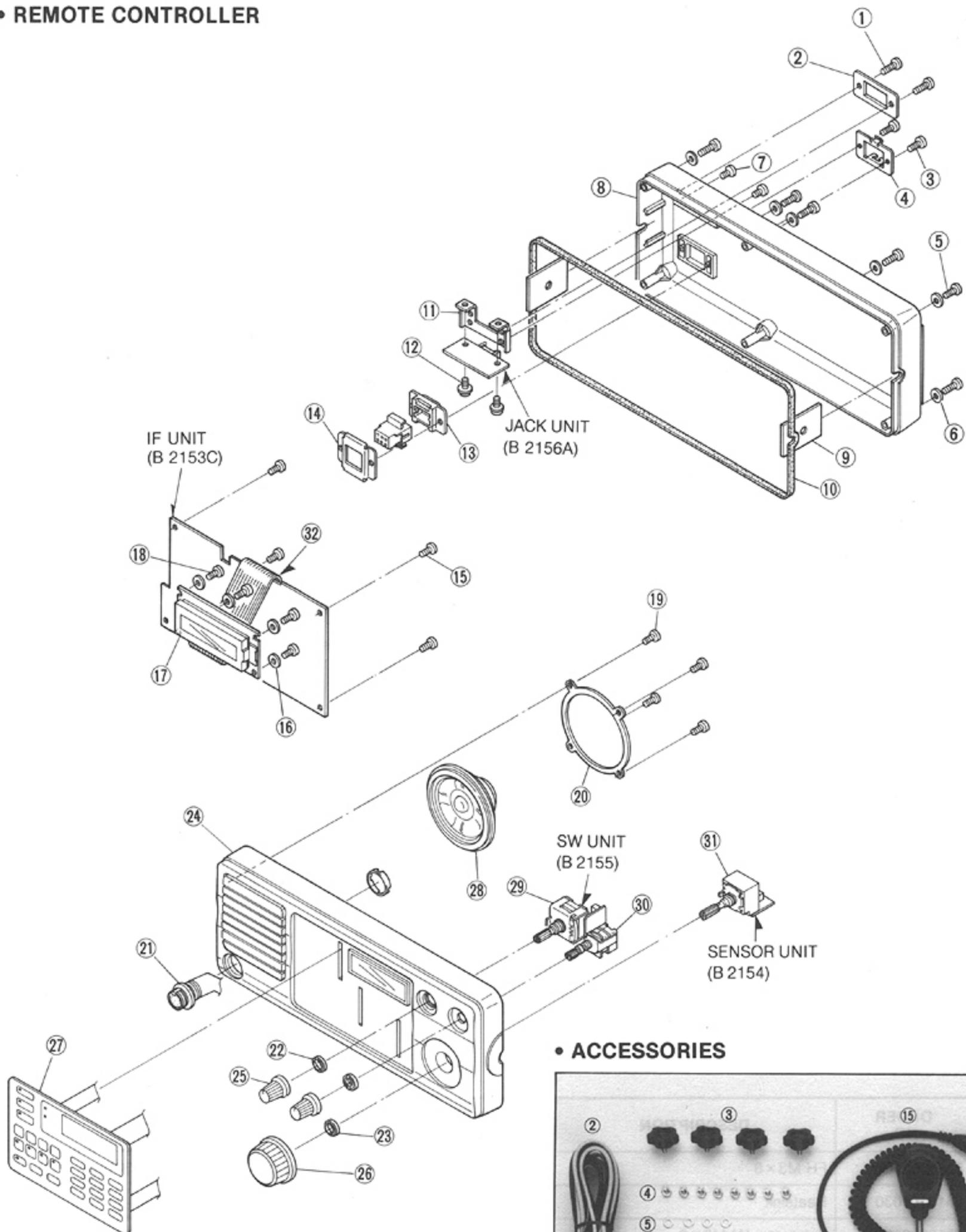
• Accessories for the transceiver

• Accessories for the remote controller

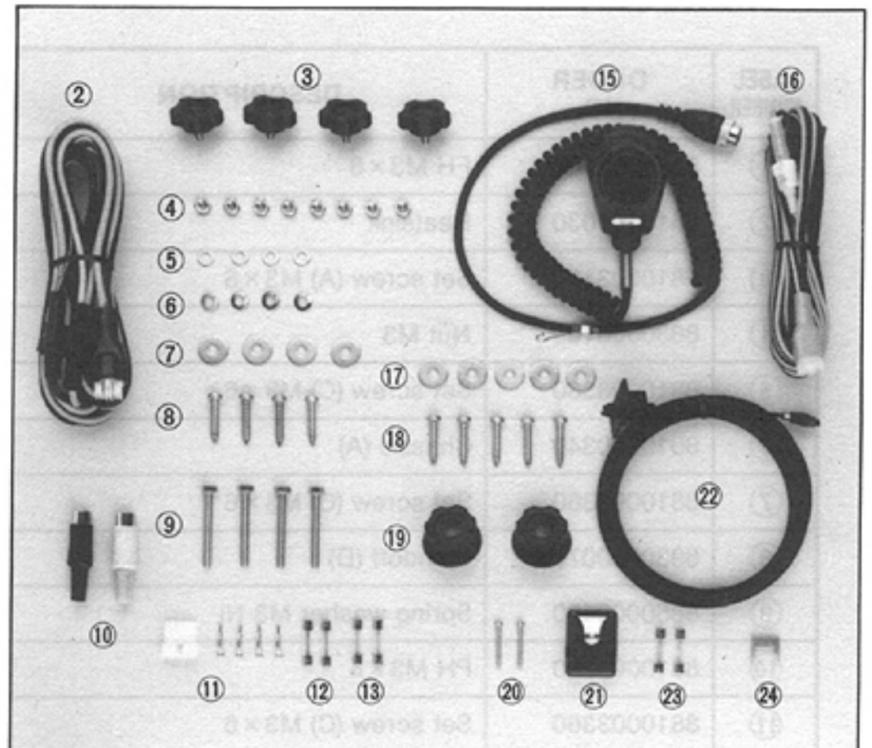
| LABEL NUMBER | ORDER NO. | DESCRIPTION | QTY. |
|--------------|------------------|-----------------------------------|------|
| ① | 8010001810 | Mounting bracket | 1 |
| ② | Optional product | DC power cable (OPC-077) | 1 |
| ③ | 8820000170 | Mounting knobs (A) M5 × 10 SUS | 4 |
| ④ | 8830000260 | Nut M6 SUS | 8 |
| ⑤ | 8850000180 | Flat washer M5 SUS | 4 |
| ⑥ | 8850000510 | Spring washer M6 SUS | 4 |
| ⑦ | 8850000200 | Flat washer M6 (6 × 20 × 1.5) SUS | 4 |
| ⑧ | 8810001500 | PH A M6 × 30 SUS | 4 |
| ⑨ | 8810003500 | Hex bolt M6 × 50 SUS | 4 |
| ⑩ | 6450000440 | DIN plug 7-pin (TCP0577-01-0201) | 1 |
| | 6450000450 | DIN plug 8-pin (TCP0587-01-0401) | 1 |
| ⑪ | 6510002050 | 4-pin connector (1190T L) | 4 |
| ⑫ | 5210000090 | Spare fuse FGB 30A | 2 |
| ⑬ | 5210000060 | Spare fuse FGB 5A | 2 |

| LABEL NUMBER | ORDER NO. | DESCRIPTION | QTY. |
|--------------|------------------|--|------|
| ⑭ | 8010008730 | Mounting bracket | 1 |
| ⑮ | Optional product | Microphone EM-48 | 1 |
| ⑯ | Optional product | DC power cable (OPC-089A) | 1 |
| ⑰ | 8850000200 | Flat washer M6 (6 × 20 × 1.5) SUS | 5 |
| ⑱ | 8810001500 | PH A0 M6 × 30 SUS | 5 |
| ⑲ | 8820000570 | Mounting knobs G1-5-15 | 2 |
| ⑳ | 8810001470 | PH A0 M3.5 × 30 SUS | 2 |
| ㉑ | 8930009120 | Microphone hanger | 1 |
| ㉒ | 8900001841 | Optical fiber cable (OPC-172A) (GP-1C205B) | 1 |
| ㉓ | 5210000050 | Spare fuse FGB 3A | 2 |
| ㉔ | 8930010820 | Cable stopper | 1 |
| ㉕ | 8930016940 | Cable clamp | 1 |

• REMOTE CONTROLLER

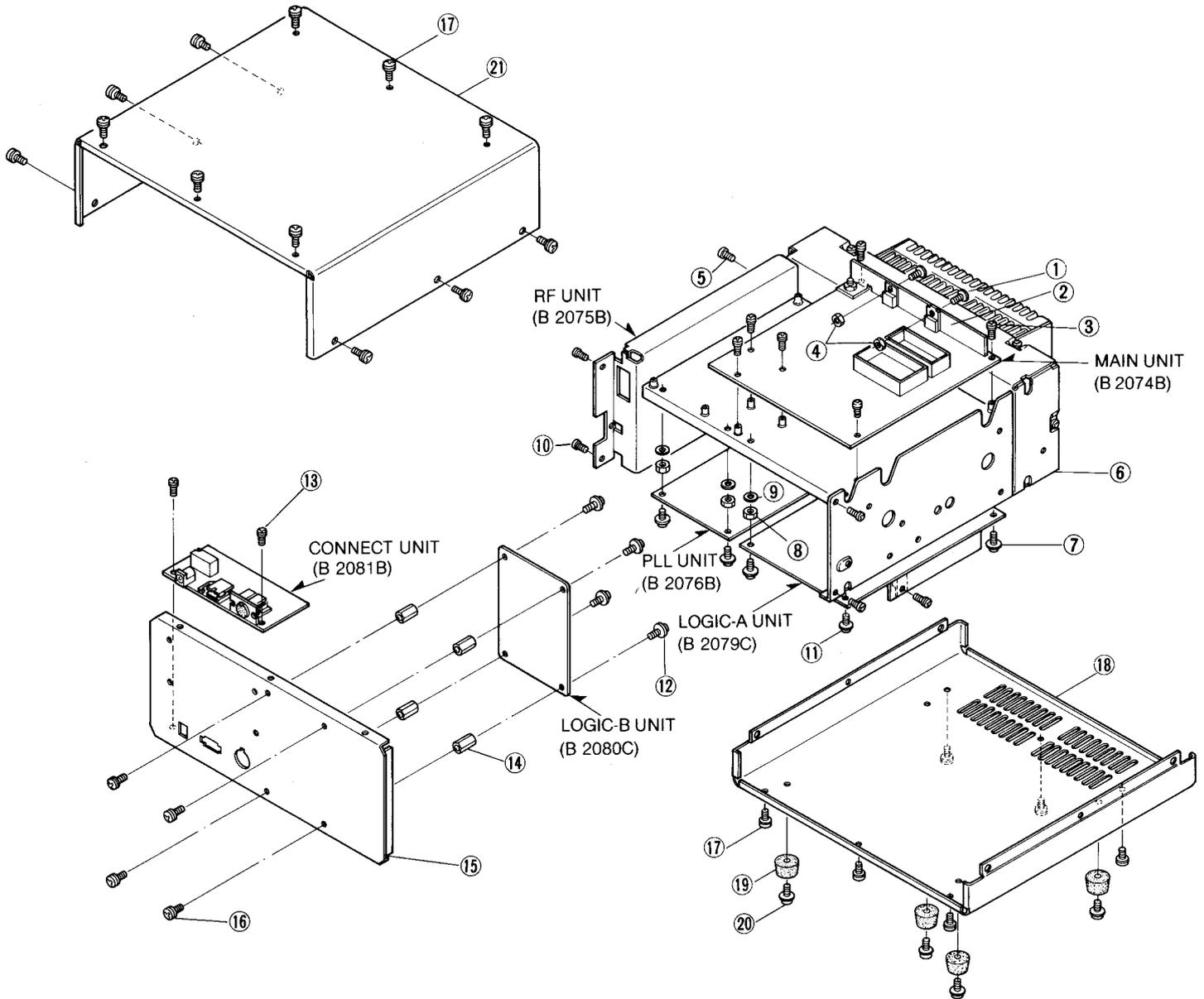


• ACCESSORIES



Mounting brackets for the transceiver ① and remote controller and the cable clamp ⑫ are not shown in the picture above.

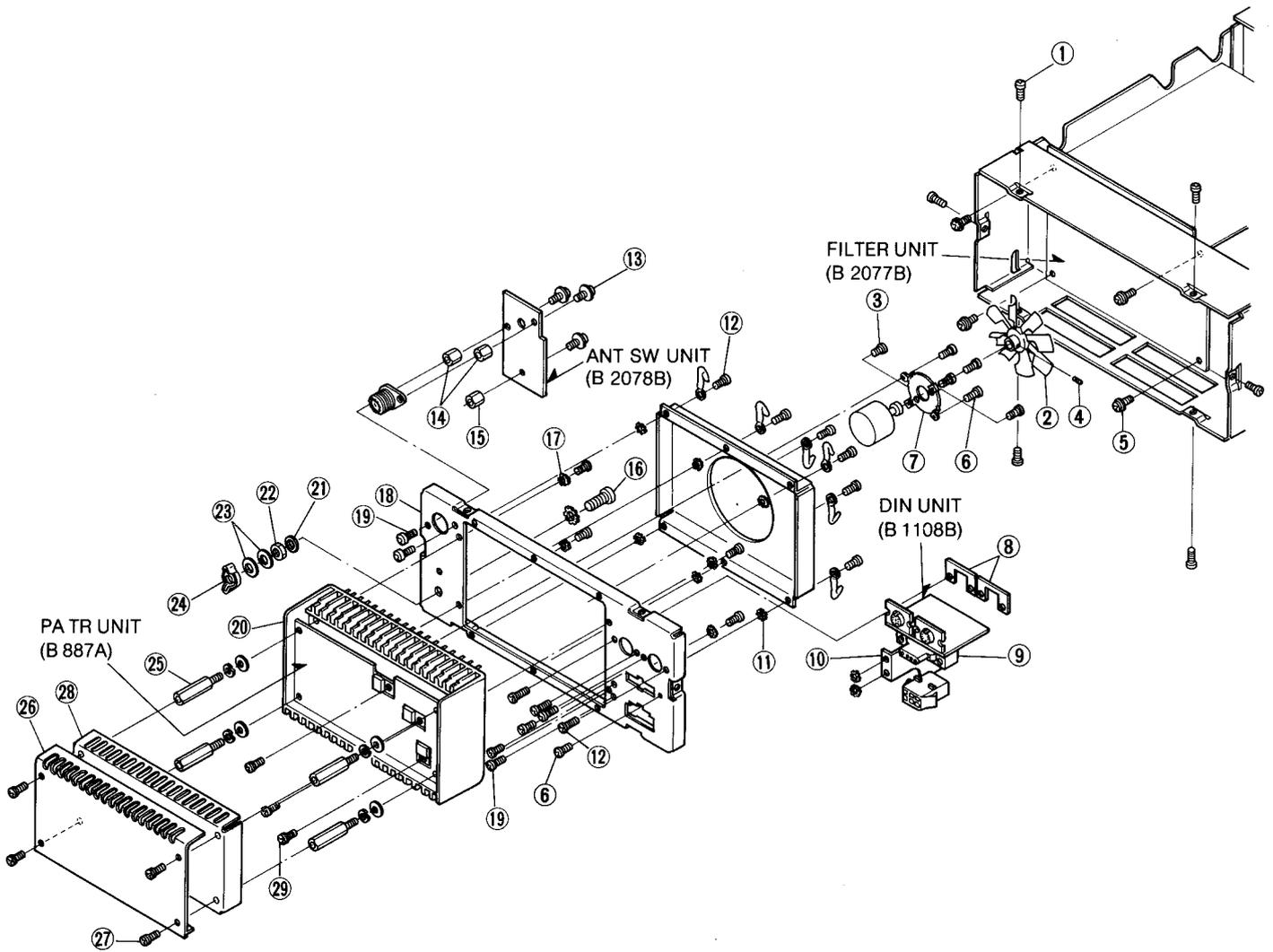
4-2 TRANSCEIVER AND REAR PANEL



• TRANSCEIVER

| LABEL NUMBER | ORDER NO. | DESCRIPTION | QTY. | LABEL NUMBER | ORDER NO. | DESCRIPTION | QTY. |
|--------------|------------|----------------------|------|--------------|------------|-----------------------------|------|
| ① | 8810002180 | FH M3 × 8 | 2 | ⑫ | 8810004140 | Set screw (F) M3 × 7 ZK SUS | 4 |
| ② | 8410001030 | Heatsink | 1 | ⑬ | 8810003160 | Set screw (A) M3 × 6 | 2 |
| ③ | 8810003160 | Set screw (A) M3 × 6 | 10 | ⑭ | 8930000540 | Thread spacer (D) | 4 |
| ④ | 8830000100 | Nut M3 | 2 | ⑮ | 8010008720 | Blind panel | 1 |
| ⑤ | 8810003360 | Set screw (C) M3 × 6 | 5 | ⑯ | 8810003350 | Set screw (C) M3 × 5 | 4 |
| ⑥ | 8010000340 | Chassis (A) | 1 | ⑰ | 8810004140 | Set screw (F) M3 × 7 ZK SUS | 18 |
| ⑦ | 8810003360 | Set screw (C) M3 × 6 | 6 | ⑱ | 8930002900 | Rubber foot (A) SK1912A | 4 |
| ⑧ | 8930000070 | Standoff (D) | 12 | ⑳ | 8810001550 | PH B1 M4 × 10 SUS | 4 |
| ⑨ | 8850000420 | Spring washer M3 Ni | 12 | ㉑ | 8110003380 | Top cover | 1 |
| ⑩ | 8810000220 | PH M3 × 5 | 4 | | | | |
| ⑪ | 8810003360 | Set screw (C) M3 × 6 | 6 | | | | |

Screw abbreviations PH: Pan head FH: Flat head B0: Self-tapping screw
ZK: Black Ni: Nickel



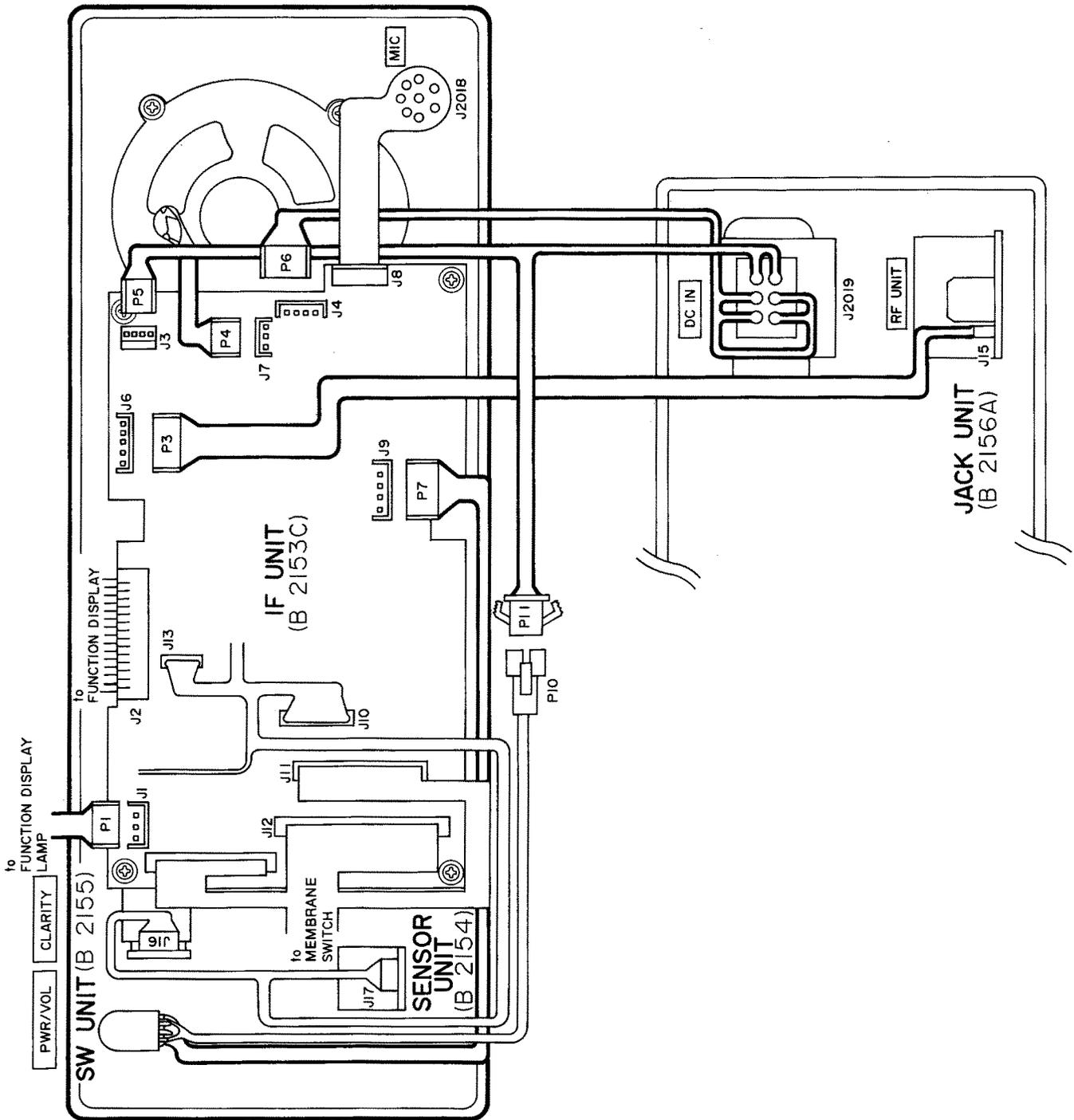
• REAR PANEL

| LABEL NUMBER | ORDER NO. | DESCRIPTION | QTY. | LABEL NUMBER | ORDER NO. | DESCRIPTION | QTY. |
|--------------|------------|--------------------------|------|--------------|------------|-----------------------------|------|
| ① | 8810000230 | PH M3 × 6 | 6 | ⑬ | 8810000690 | PH M5 × 16 SUS | 1 |
| ② | 8010002470 | Propeller (A) | 1 | ⑭ | 8850000590 | Star washer M5 | 1 |
| ③ | 8810001810 | Motor screw (A) M2 × 2.3 | 2 | ⑮ | 8010008670 | Rear panel (A) | 1 |
| ④ | 8810003520 | HS M3 × 3 ZK | 1 | ⑯ | 8810002950 | BiH M3 × 6 SUS | 4 |
| ⑤ | 8810003360 | Set screw (C) M3 × 6 | 4 | ⑰ | 8410000411 | 263 Heatsink-2 | 1 |
| ⑥ | 8810000140 | PH M2.6 × 5 | 6 | ⑱ | 8850000500 | Spring washer M5 SUS | 1 |
| ⑦ | 8010002070 | Motor plate | 1 | ⑲ | 8830000210 | Nut M5 Ni BS | 1 |
| ⑧ | 8930008230 | DIN plate | 2 | ⑳ | 8850000150 | Flat washer M5 Ni BS | 2 |
| ⑨ | 8930004150 | Connector plate | 1 | ㉑ | 8830000360 | Wing nut M5 Ni | 1 |
| ⑩ | 8310004880 | C plate | 1 | ㉒ | 8930000140 | Standoff (J) | 4 |
| ⑪ | 8850000570 | Star washer M3 | 12 | ㉓ | 8510001660 | PA cover | 1 |
| ⑫ | 8810000240 | PH M3 × 8 | 10 | ㉔ | 8810004140 | Set screw (F) M3 × 7 ZK SUS | 4 |
| ⑬ | 8810003360 | Set screw (C) M3 × 6 | 3 | ㉕ | 8510001590 | PA shield plate | 1 |
| ⑭ | 8930000660 | Thread spacer (P) | 2 | ㉖ | 8810003160 | Set screw (A) M3 × 6 | 4 |
| ⑮ | 8930000540 | Thread spacer (D) | 1 | | | | |

Screw abbreviations PH: Pan head BiH: Binding head HS: Hex socket
 BO: Self-tapping screw
 ZK: Black Ni: Nickel

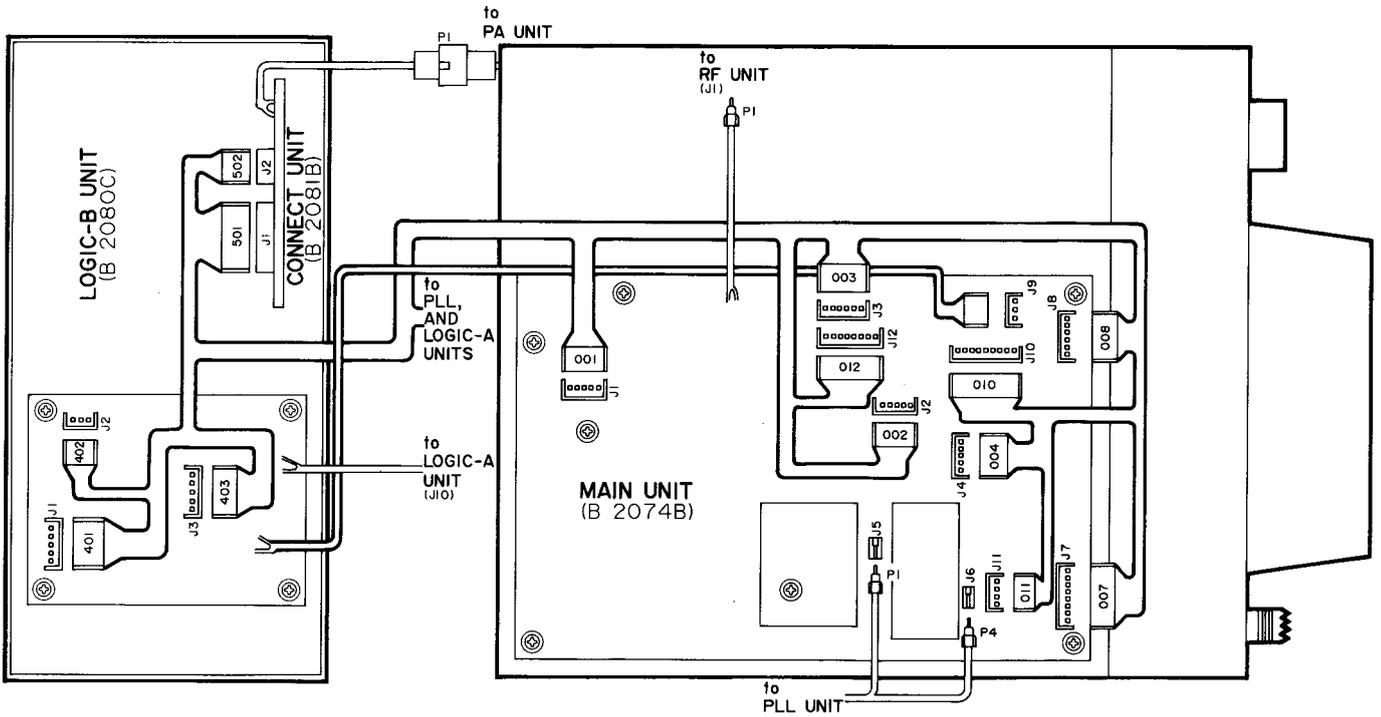
4-3 REMOTE CONTROLLER AND TRANSCIVER CONNECTOR ASSEMBLY

• REMOTE CONTROLLER

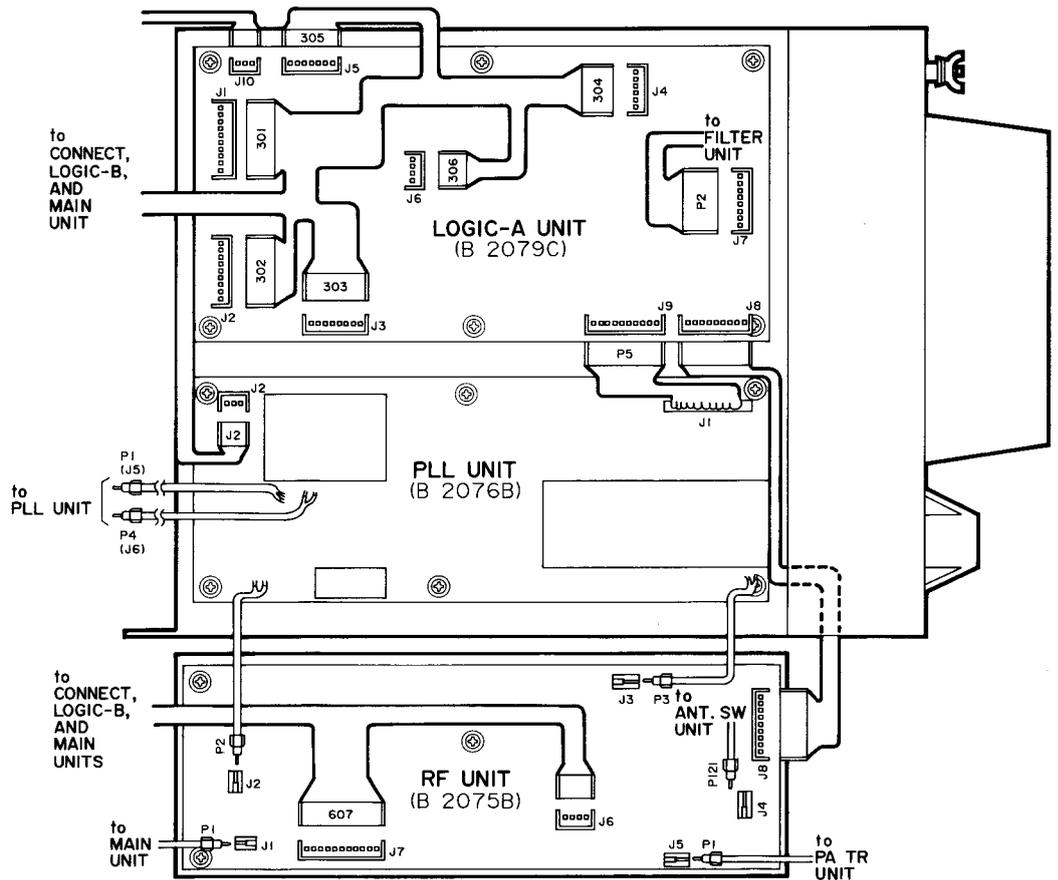


• TRANSCEIVER

TOP



BOTTOM



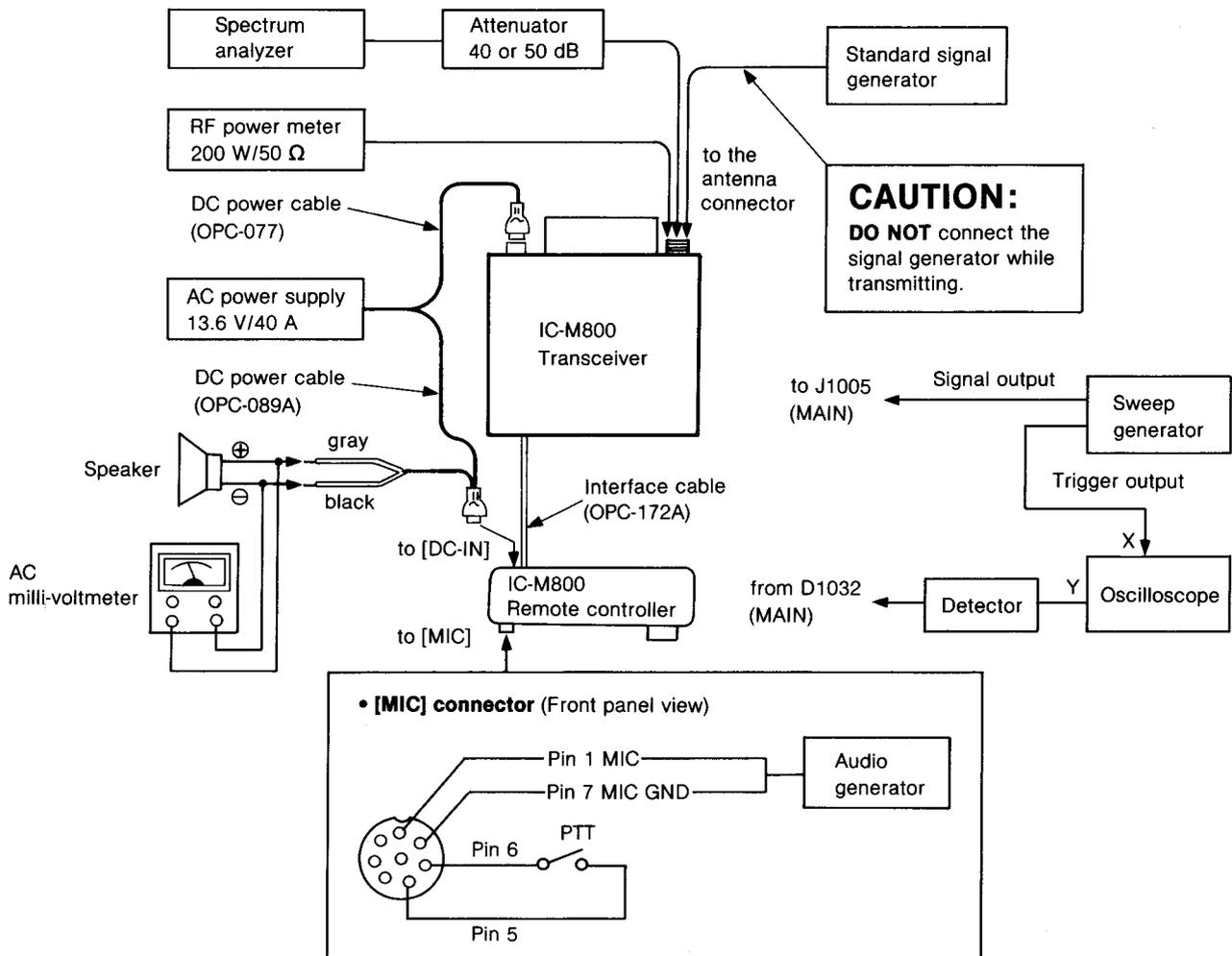
SECTION 5 ADJUSTMENT PROCEDURES

5-1 PREPARATION BEFORE SERVICING

REQUIRED TEST EQUIPMENT

| EQUIPMENT | GRADE AND RANGE | EQUIPMENT | GRADE AND RANGE |
|----------------------------------|---|-------------------|---|
| AC power supply | Output voltage : 13.6 V DC Current capacity : 40 A or more | External speaker | Impedance : 4 Ω |
| RF power meter (terminated type) | Measuring range : 10~200 W Frequency range : 1.8~30 MHz Impedance : 50 Ω SWR : Less than 1.2 : 1 | Ammeter | Measurement capability: 1 A |
| Frequency counter | Frequency range : 0.1~100 MHz Frequency accuracy : ±1 ppm or better Sensitivity : 100 mV or better | Audio generator | Frequency range : 300~3000 Hz Output level : 1~500 mV |
| RF voltmeter | Frequency range : 0.1~100 MHz Measuring range : 0.01~10 V | Attenuator | Power attenuation : 40 or 50 dB Capacity : 150 W or more |
| Oscilloscope | Frequency range : DC~20 MHz Measuring range : 0.01~10 V | Spectrum analyzer | Frequency minimum : At least 30 MHz Spectrum bandwidth : ±100 kHz or more |
| Standard signal generator (SSG) | Frequency range : 0.1~30 MHz Output level : -127~-17 dBm (0.1 μV~32 mV) | Sweep generator | Frequency range : 0.1~100 MHz Sweep bandwidth : At least 10 MHz Output impedance : 50 Ω |
| DC voltmeter | Input impedance : 50 kΩ/DC or better | Detector | |
| AC milli-voltmeter | Measuring range : 10 mV~10 V | | |

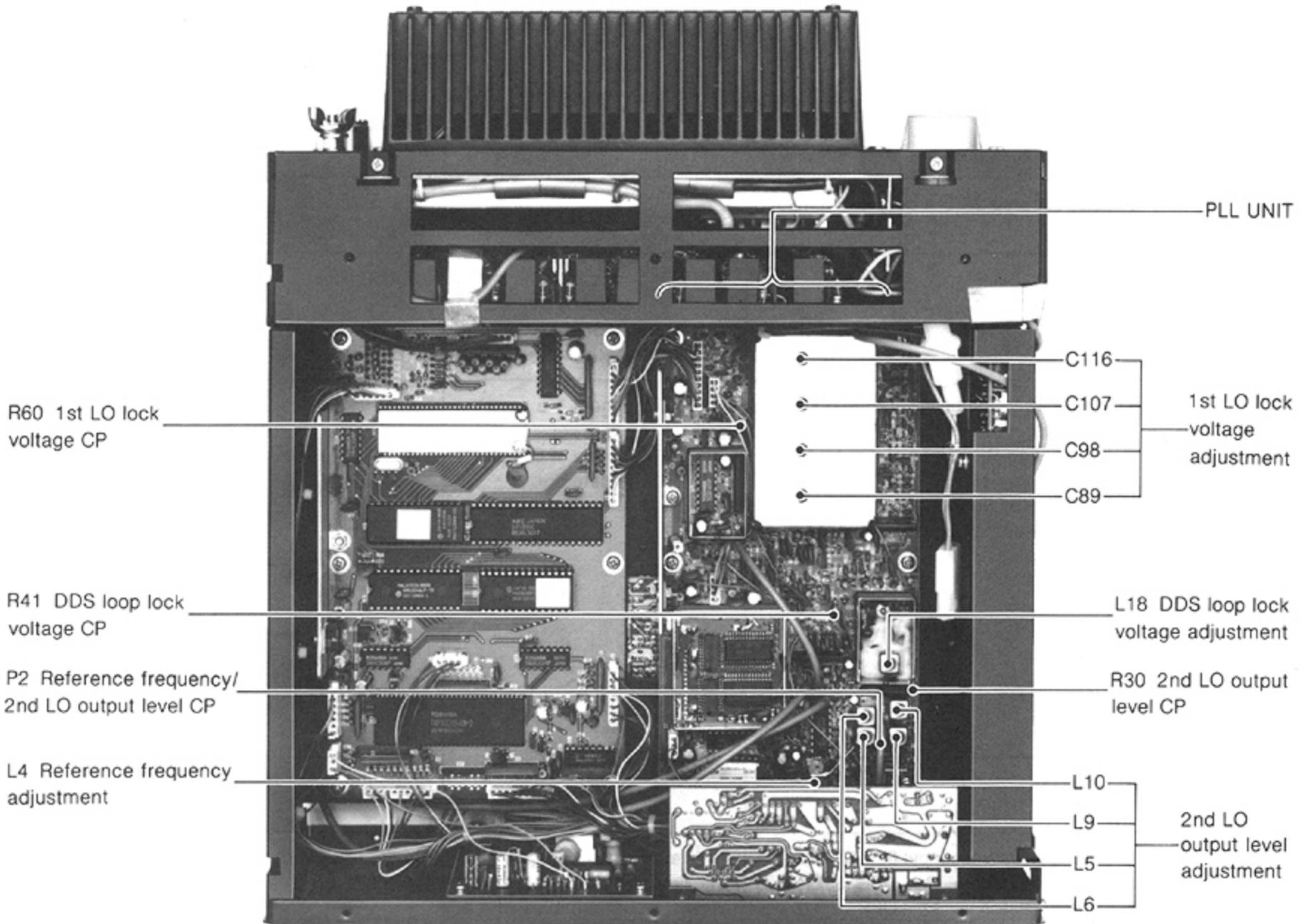
CONNECTION



5-2 PLL ADJUSTMENT

| ADJUSTMENT | ADJUSTMENT CONDITIONS | MEASUREMENT | | VALUE | ADJUSTMENT POINT | |
|-----------------------|--|---|--|--|------------------|---------|
| | | UNIT | LOCATION | | UNIT | ADJUST |
| REFERENCE FREQUENCY | 1 <ul style="list-style-type: none"> Displayed frequency: 2182.0 kHz Mode : USB (J3E) Unplug P2 from J602 (RF UNIT). Receiving | PLL | Terminate P2 to ground with a 50 Ω resistor. Connect the frequency counter to P2. | 60.000020 MHz | PLL | L4 |
| 2ND LO OUTPUT LEVEL | 1 <ul style="list-style-type: none"> Displayed frequency: 2182.0 kHz Mode : USB (J3E) Unplug P2 from J602 (RF UNIT). Receiving | PLL | Terminate P2 to ground with a 50 Ω resistor. Connect the RF voltmeter to P2. | Adjust for maximum output. (+2~+5 dBm) | PLL | L5, L6 |
| | 2 | | Connect the RF voltmeter to R30. | Maximum level | | L9, L10 |
| | 3 | After adjustment, remove the resistor and re-plug P2. | | | | |
| DDS LOOP LOCK VOLTAGE | 1 <ul style="list-style-type: none"> Displayed frequency: 7000.0 kHz Mode : USB (J3E) [CLARITY] control : Center Receiving | PLL | Connect the oscilloscope to R41. | 1.0 V DC | PLL | L18 |
| | 2 <ul style="list-style-type: none"> Displayed frequency: 6999.9 kHz | | | Approx. 3.0 V DC | | Verify |
| 1ST LO LOCK VOLTAGE | 1 <ul style="list-style-type: none"> Displayed frequency: 6999.9 kHz Mode : USB (J3E) Receiving | PLL | Connect the oscilloscope to R60. | 6.5 V DC | PLL | C89 |
| | 2 <ul style="list-style-type: none"> Displayed frequency: 13999.9 kHz | | | 6.5 V DC | | C98 |
| | 3 <ul style="list-style-type: none"> Displayed frequency: 21999.9 kHz | | | 6.5 V DC | | C107 |
| | 4 <ul style="list-style-type: none"> Displayed frequency: 30000.0 kHz | | | 6.5 V DC | | C116 |
| | 5 <ul style="list-style-type: none"> Displayed frequencies: 500.0 kHz, 7000.0 kHz, 14000.0 kHz and 22000.0 kHz | | | More than 1.0 V DC (PLL is locked.) | | Verify |

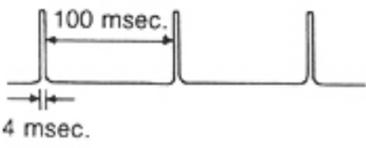
PLL UNIT



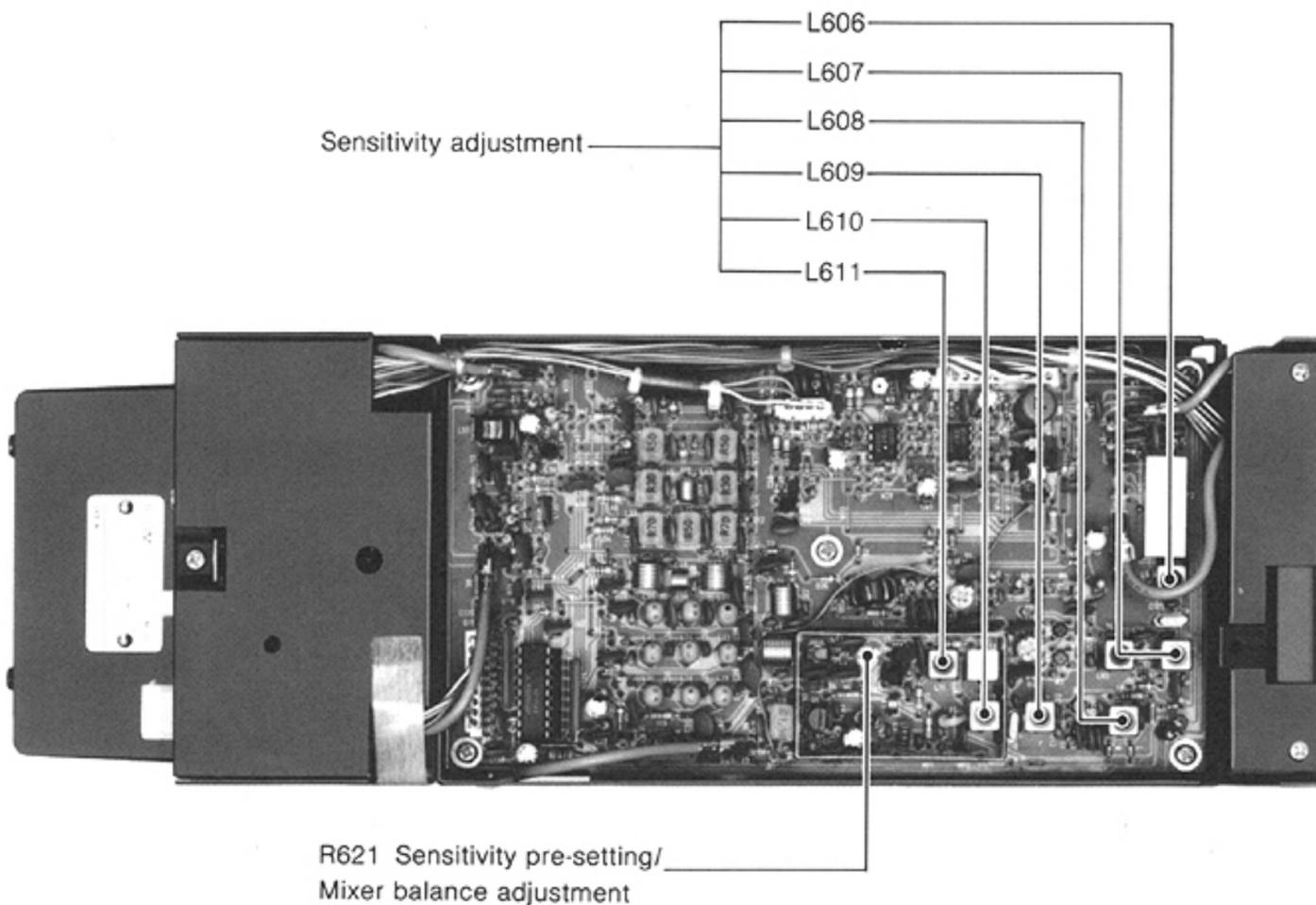
5-3 RECEIVER ADJUSTMENT

| ADJUSTMENT | ADJUSTMENT CONDITIONS | MEASUREMENT | | VALUE | ADJUSTMENT POINT | | | | |
|------------------|-----------------------|---|------------------------------|---|--------------------|--------|--|-------------|---|
| | | UNIT | LOCATION | | UNIT | ADJUST | | | |
| BFO FREQUENCY | 1 | <ul style="list-style-type: none"> Displayed frequency: 12500.0 kHz Mode : FSN (J2B) Receiving | MAIN | Connect the frequency counter to J1006. | Pre-set to center. | MAIN | C1160 | | |
| | 2 | | | | | | 5.26230 MHz | L1019 | |
| | 3 | | | | | | <ul style="list-style-type: none"> Mode : USB (J3E) | 5.26300 MHz | R1264 |
| | 4 | | | | | | <ul style="list-style-type: none"> Mode : LSB | 5.26000 MHz | L1020 |
| | 5 | | | | | | <ul style="list-style-type: none"> Mode : CW (A1A) | 5.26160 MHz | C1160 |
| | 6 | Repeat step 2~5 a couple of times. | | | | | | | |
| | 7 | <ul style="list-style-type: none"> Mode : CW (A1A) Transmitting | MAIN | Connect the frequency counter to J1006. | 5.26060 MHz | | Verify | | |
| BFO OUTPUT LEVEL | 1 | <ul style="list-style-type: none"> Displayed frequency: 12500.0 kHz Mode : USB (J3E) Apply an RF sweep signal to J1005. <ul style="list-style-type: none"> Sweep level: 0.22 V (0 dBm) Center frequency: 7.5 MHz Sweep bandwidth: 1 MHz Receiving | MAIN | Connect the oscilloscope to the cathode of D1032 via the detector. | Adjust as follows: | MAIN | L1014, L1015 | | |
| | 2 | | | | | | <ul style="list-style-type: none"> Mode : AM (H3E) | No output | Verify |
| SENSITIVITY | 1 | <ul style="list-style-type: none"> Displayed frequency: 8200.0 kHz Mode : USB (J3E) [NB] switch : OFF [SQL] switch : OFF Set the signal generator; <ul style="list-style-type: none"> Level : 0.5 μV Modulation : OFF Connect a jumper wire between R1037 and R1038. [SP OFF] switch : ON Receiving | Remote controller rear panel | Connect the AC millivoltmeter to the AF output cables with a 4 Ω load. | Pre-set to center | RF | R621 | | |
| | 2 | | | | | | Pre-set to max. CW. | MAIN | R1144 |
| | 3 | | | | | | Maximum audio output level adjusting several times | RF | Adjust in sequence L611, L610, L609, L608, L607, L606 |
| | 4 | | | | | | Maximum audio output level adjusting several times | MAIN | Adjust in sequence L1005, L1006, L1007, L1013, L1004 |
| | 5 | | | | | | After adjustment, remove the jumper wire from R1037 and R1038. | | |

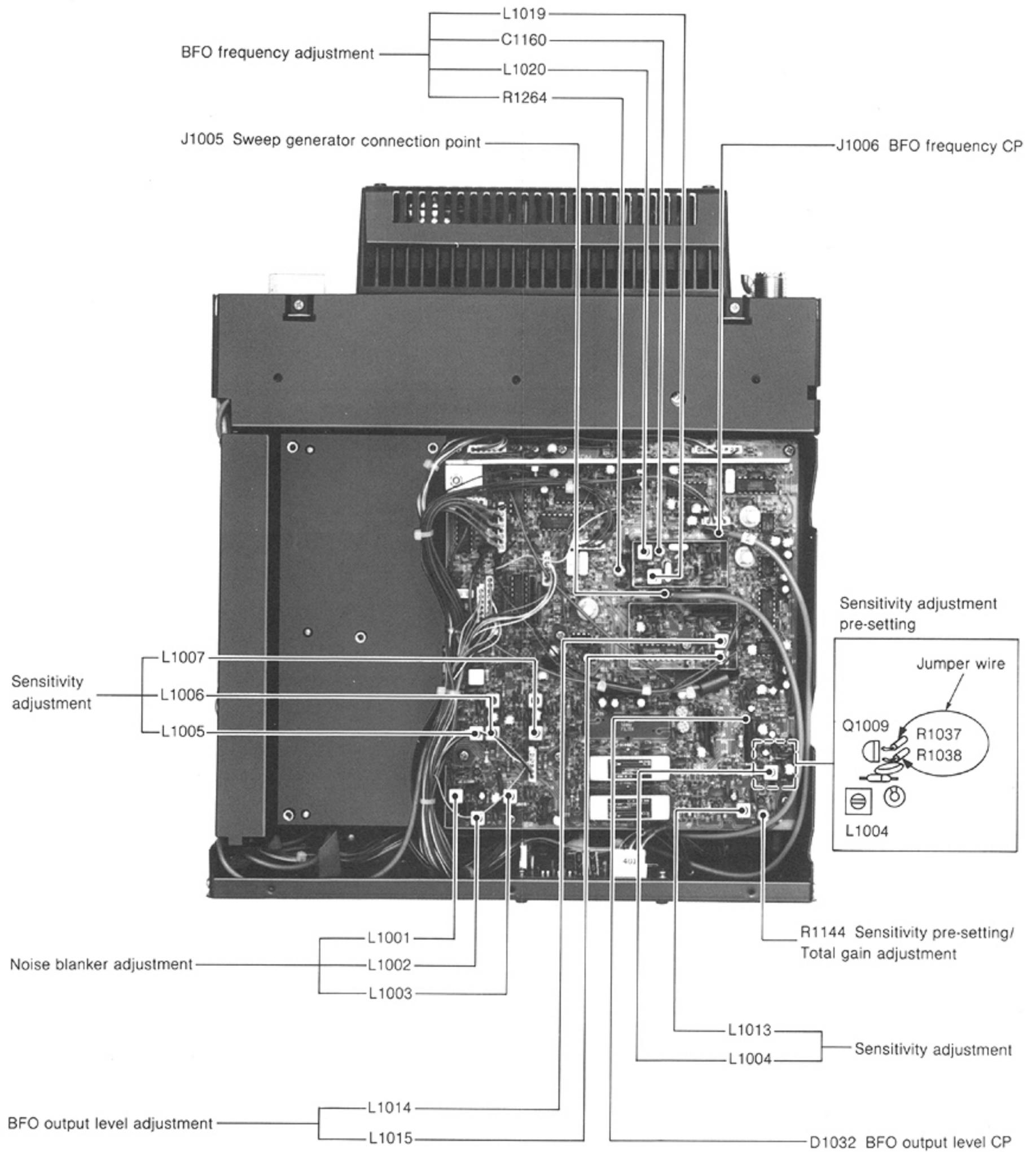
RECEIVER ADJUSTMENT (CONTINUED)

| ADJUSTMENT | ADJUSTMENT CONDITIONS | MEASUREMENT | | VALUE | ADJUSTMENT POINT | | |
|---------------|---|---|--|--|-------------------------------|---------------------|------|
| | | UNIT | LOCATION | | UNIT | ADJUST | |
| MIXER BALANCE | 1 <ul style="list-style-type: none"> • Displayed frequency: 500.0 kHz • Mode : USB (J3E) • Set the signal generator; Level : OFF • Receiving | Remote controller rear panel | Connect the AC millivoltmeter to the AF output cables with a 4 Ω load. | Minimum level | RF | R621 | |
| TOTAL GAIN | 1 <ul style="list-style-type: none"> • Displayed frequency: 8200.0 kHz • Mode : USB (J3E) • Set the signal generator; Level : 0.32 mV (-57 dBm) • Modulation : OFF | Remote controller rear panel | Connect the AC millivoltmeter to the AF output cables with a 4 Ω load. | 0 dB | Remote controller front panel | [VOL] control | |
| | 2 <ul style="list-style-type: none"> • Set the signal generator; Level : OFF | | | -30 dB | | | MAIN |
| | | When above adjustment cannot obtain -30 dB, set R1144 for maximum. (-35 dB or more) | | | | | |
| NOISE BLANKER | 1 <ul style="list-style-type: none"> • Displayed frequency: 8200.0 kHz • Mode : USB (J3E) • [NB] switch : ON • Apply an RF signal including the following pulse noise to the antenna connector. RF signal level : 3.2 μV (-97 dBm)  | Remote controller rear panel | Connect the oscilloscope to the AF output cables with a 4 Ω load. | Adjust for minimum waveform on the oscilloscope. | MAIN | L1001, L1002, L1003 | |

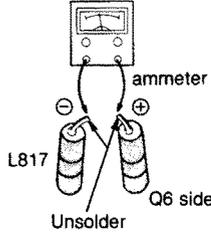
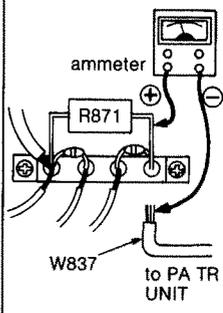
RF UNIT



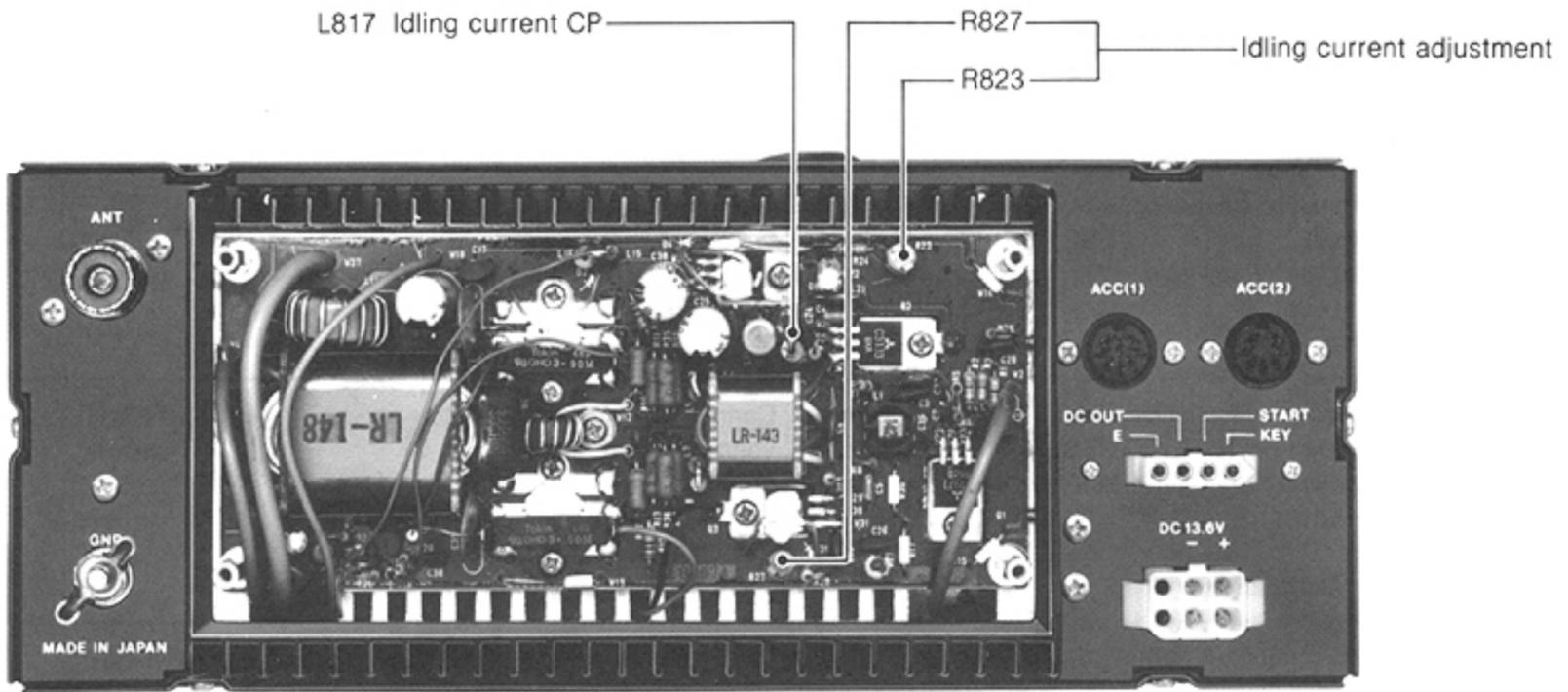
MAIN UNIT



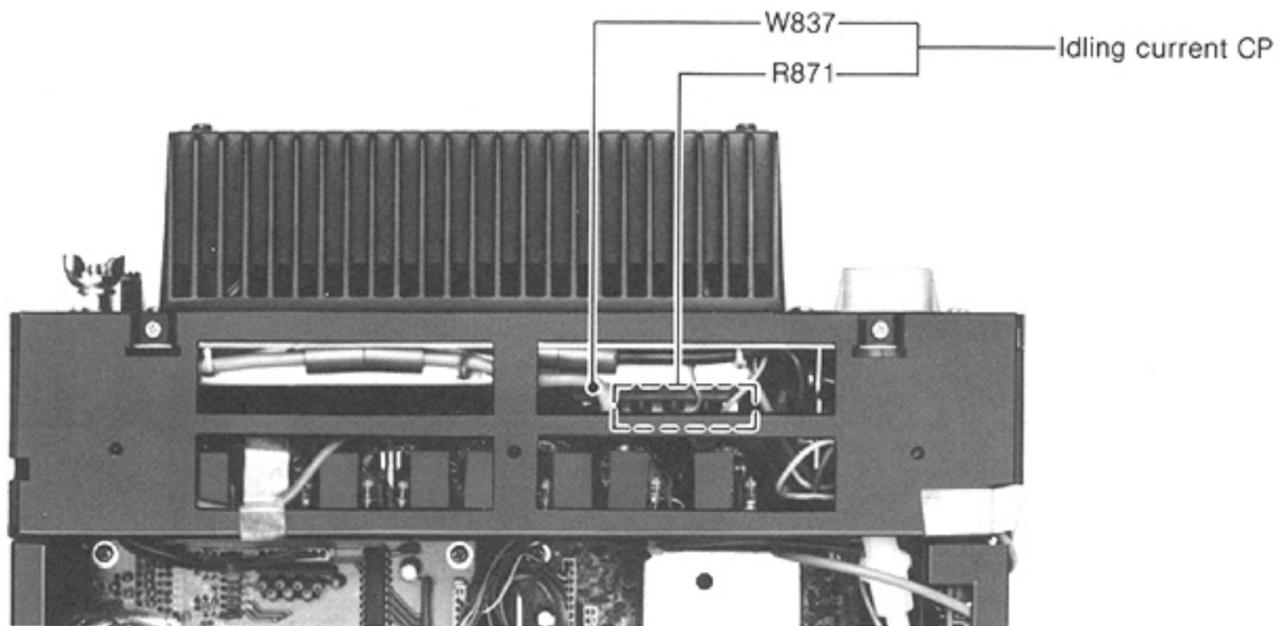
5-4 TRANSMITTER ADJUSTMENT

| ADJUSTMENT | ADJUSTMENT CONDITIONS | MEASUREMENT | | VALUE | ADJUSTMENT POINT | |
|---|--|------------------------|--|-----------------------------|------------------|--------|
| | | UNIT | LOCATION | | UNIT | ADJUST |
| IDLING CURRENT Ⓐ For drive transistors | <ul style="list-style-type: none"> • Displayed frequency: 12500.0 kHz • Mode : USB (J3E) • Apply no AF signal to the [MIC] connector. • Transmitting | PA TR | Unsolder L817 and connect the ammeter to the unsoldering points.  | 100 mA | PA TR | R827 |
| | | PA | Unsolder W837 and connect the ammeter between R871 and W837.  | 600 mA | | R823 |
| After adjustment, re-solder L817 and W837. | | | | | | |
| SWR DETECTOR | <ul style="list-style-type: none"> • Displayed frequency: 2000.0 kHz • Mode : AM (A3E) • Transmitting | RF | Connect the DC voltmeter to R659. | Minimum | FILTER | C1536 |
| TX RF FILTER | <ul style="list-style-type: none"> • Displayed frequency: 12500.0 kHz • Mode : USB (J3E) • Apply an AF signal to the [MIC] connector Level : 1~5 mV/1 kHz • Transmitting | Transceiver rear panel | Connect the RF power meter to the antenna connector. | Pre-set to max. CCW. | RF | R657 |
| | | | | Pre-set to center. | IF | R2022 |
| | | | | | RF | R681 |
| | | | | | MAIN | R1187 |
| | | | | Pre-set to 2/3 CW rotation. | RF | R688 |
| | | | | Pre-set to max. CW. | MAIN | R1290 |
| Maximum level | MAIN | L1011, L1010 | | | | |
| | | RF | L665 | | | |
| NOTE: Adjust the AG output level so that the RF output power does not become 100 W or more. | | | | | | |

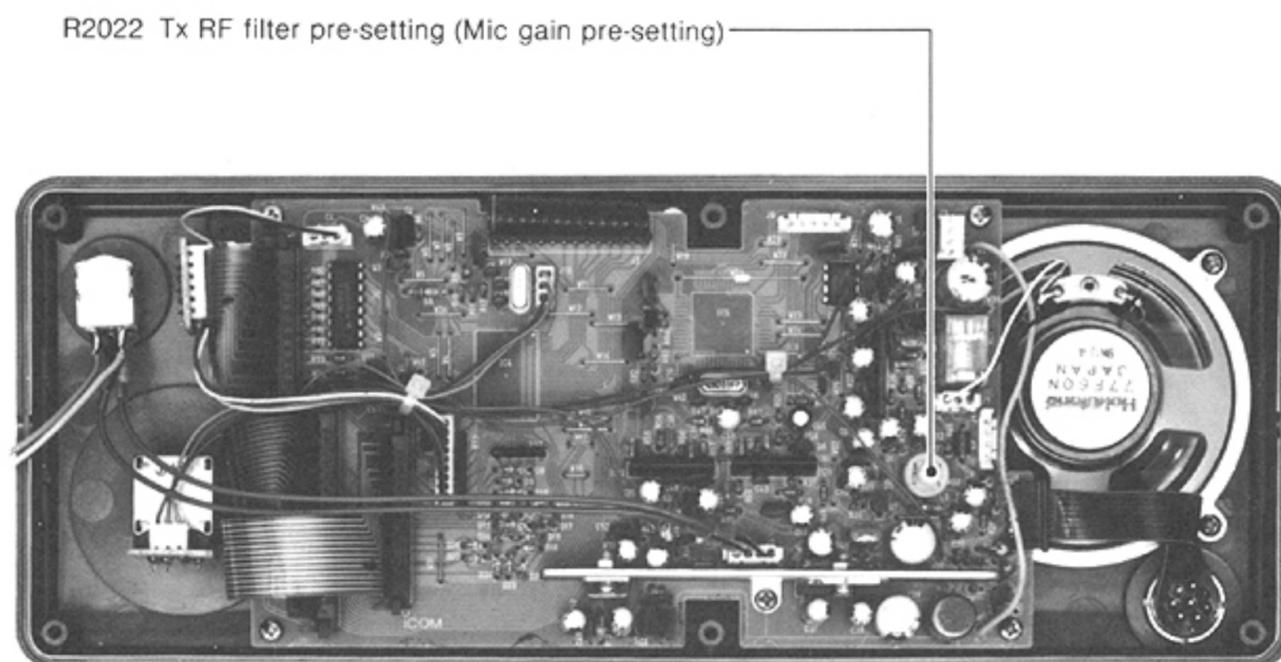
PA TR UNIT



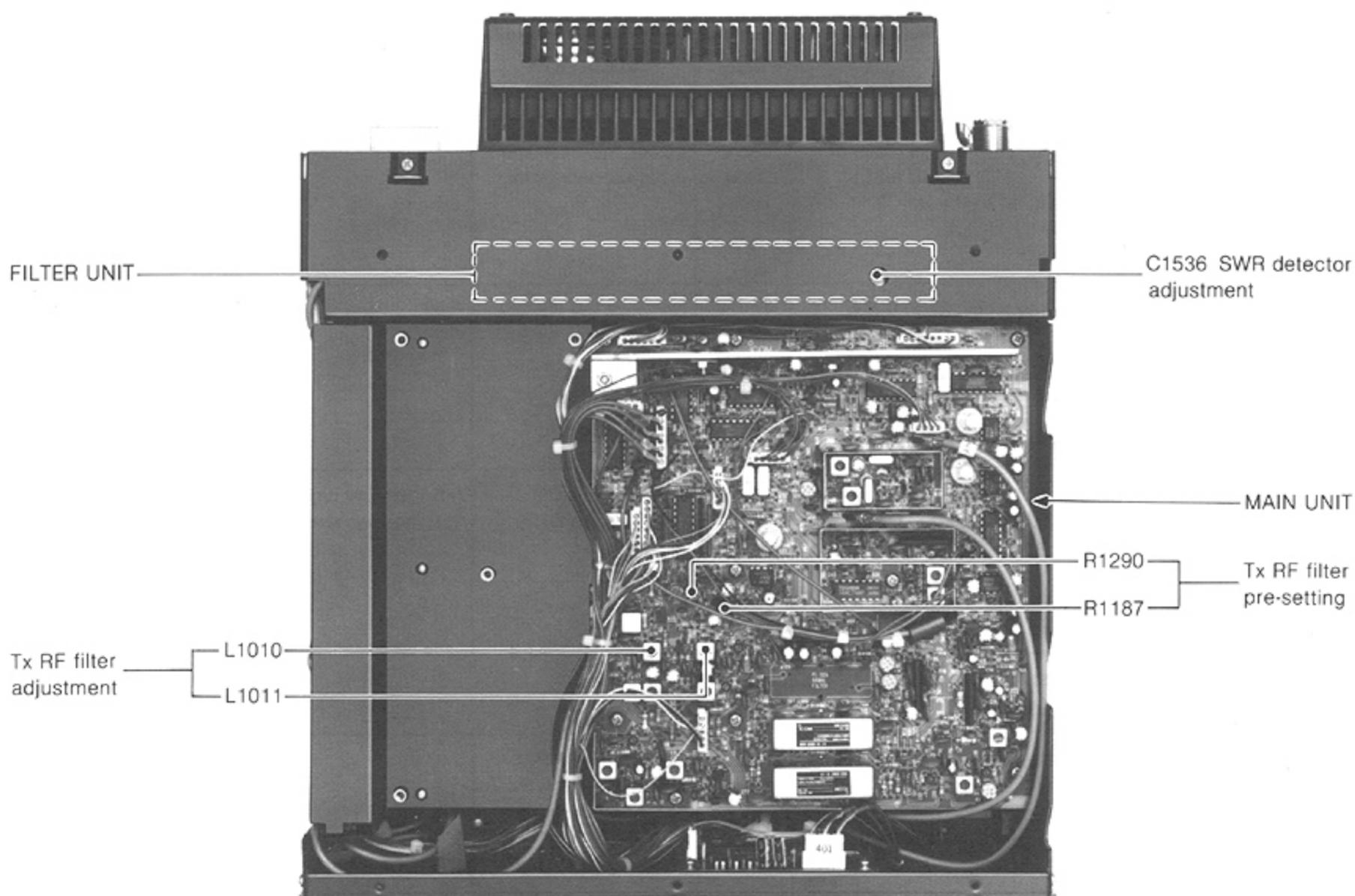
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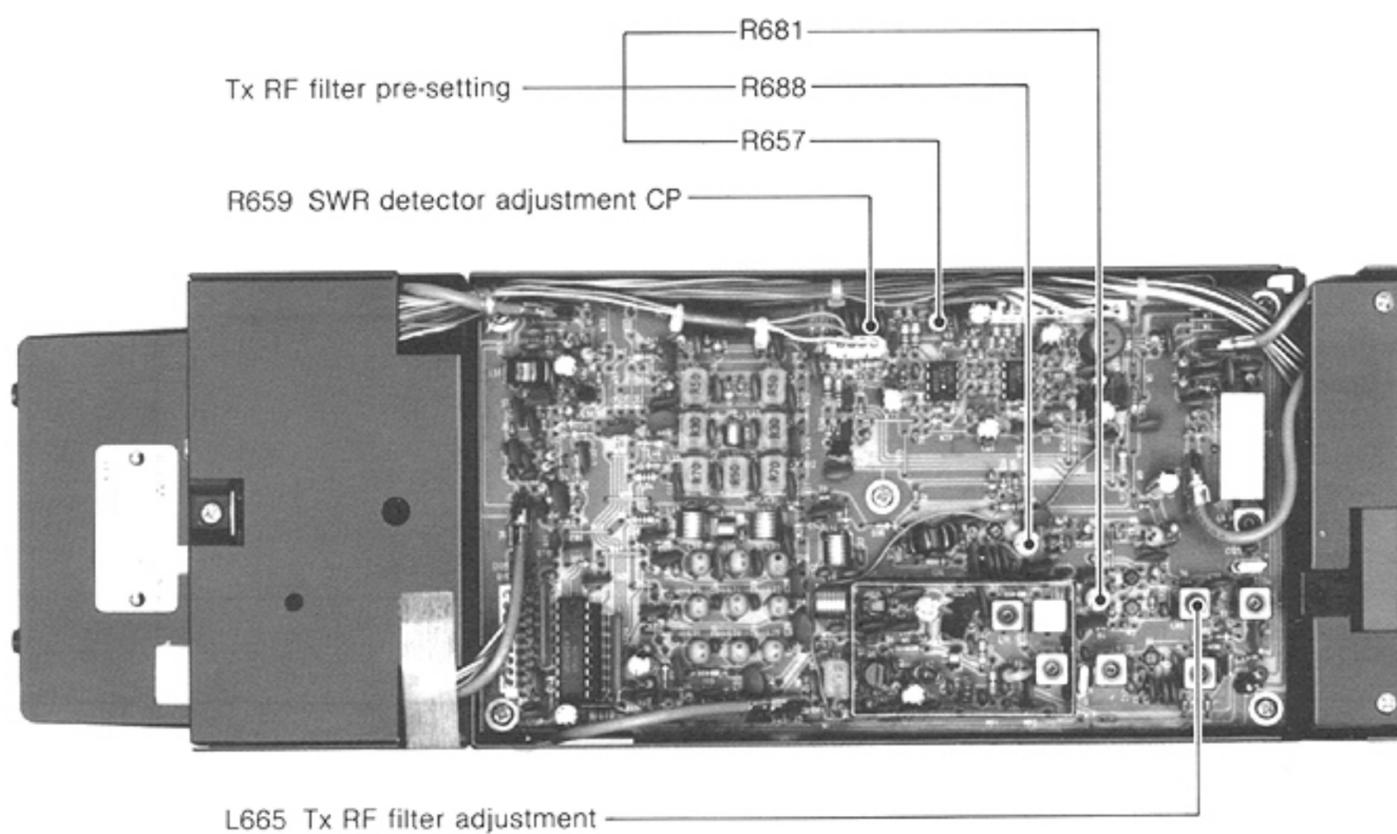
IF UNIT



FILTER AND MAIN UNITS



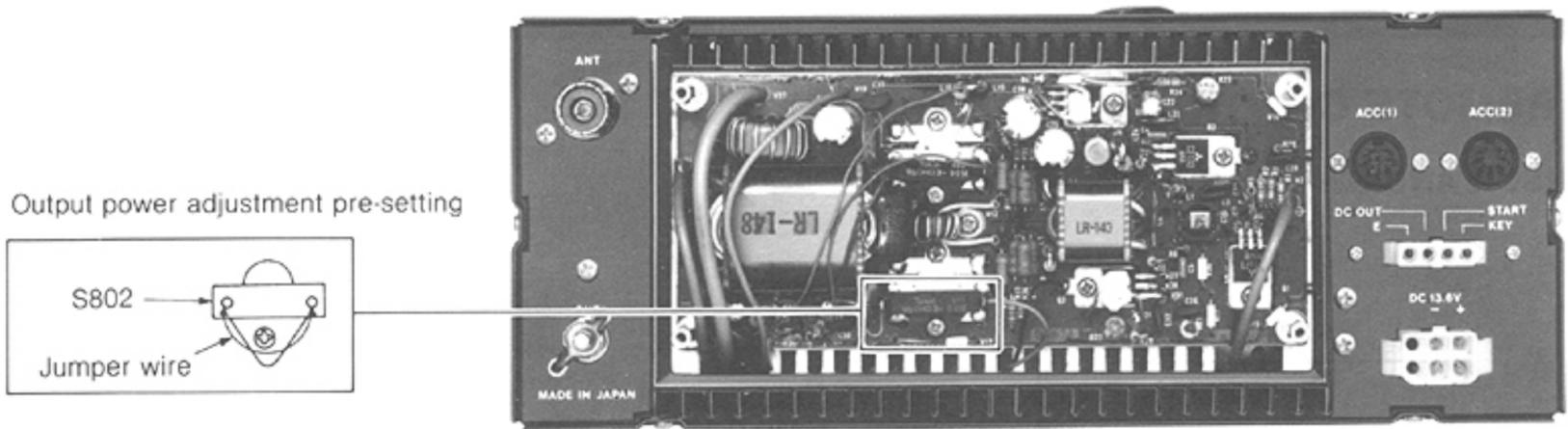
RF UNIT



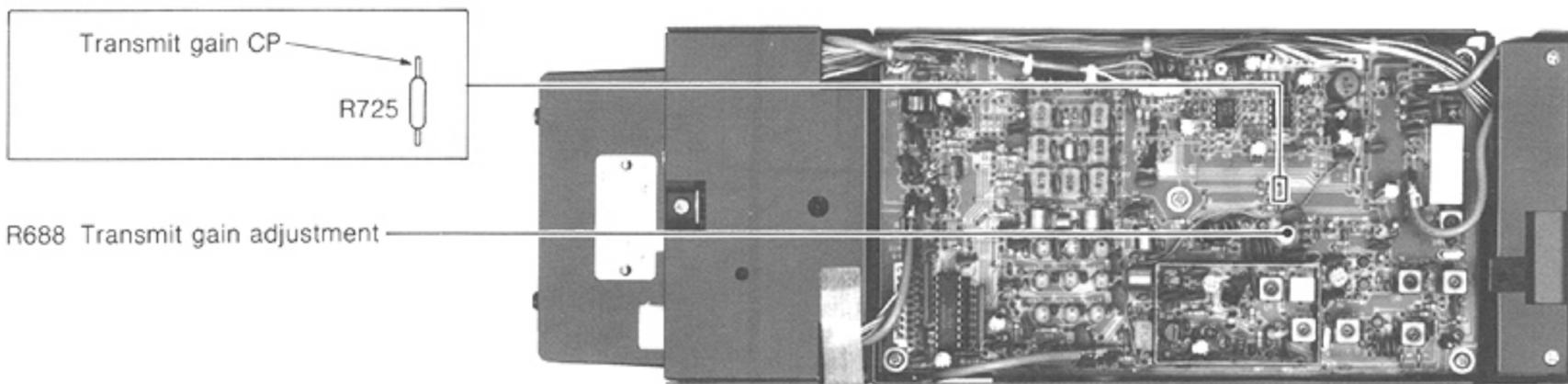
TRANSMITTER ADJUSTMENT (CONTINUED)

| ADJUSTMENT | ADJUSTMENT CONDITIONS | MEASUREMENT | | VALUE | ADJUSTMENT POINT | |
|--|---|--|--|--|------------------|-----------------------------------|
| | | UNIT | LOCATION | | UNIT | ADJUST |
| CARRIER SUPPRESSION PRE-ADJUSTMENT | 1 <ul style="list-style-type: none"> • Displayed frequency: 12500.0 kHz • Mode : FSN (J2B) or USB (J3E) • Apply no signal to the [MIC] connector. • Transmitting | Transceiver rear panel | Connect the RF power meter to the antenna connector. | Minimum level | MAIN | R1136, R1138 |
| TRANSMIT GAIN | 1 <ul style="list-style-type: none"> • Displayed frequency: 8200.0 kHz • Mode : USB (J3E) • Apply an AF signal to the [MIC] connector. Level : 0.1 mV/1 kHz • Transmitting | Transceiver rear panel | Connect the RF power meter to the antenna connector. | 5 W | Audio generator | Output level |
| | 2 <ul style="list-style-type: none"> • Displayed frequencies: 2000.0 kHz and 22000.0 kHz | RF | Connect the DC voltmeter to R725. | 0.5 V on the higher voltage frequency | RF | R688 |
| NOTE: Adjust above adjustment a couple of times. | | | | | | |
| OUTPUT POWER | 1 <ul style="list-style-type: none"> • Displayed frequency: 8200.0 kHz • Mode : CW (A1A) • Connect a key to the [ACC (1)] socket pin 1 and 2, and keep the key down. • Transmitting | Transceiver rear panel | Connect the RF power meter to the antenna connector. | 140 W | MAIN | R1187 |
| | 2 <ul style="list-style-type: none"> • Mode : AM (H3E) • Apply no AF signal to the [MIC] connector. | | | 55 W | | R1290 |
| | 3 <ul style="list-style-type: none"> • Mode : A3A (R3E) | | | 5 W | | R1291 |
| | 4 <ul style="list-style-type: none"> • Mode : CW (A1A) • Connect a jumper wire to both terminals of S802. • Connect a key to the [ACC (1)] socket pins 1 and 2, and keep the key down. | | | 60 W | | Verify |
| | 5 | After adjustment, remove the jumper wire from S802. | | | | |
| | 6 <ul style="list-style-type: none"> • Unplug J1012 (MAIN UNIT) • Connect a jumper wire between L1025 and J1012 pin 3. CAUTION: Be careful the jumper wire (13.6 V line) does not touch the heatsink. • Transmitting | Transceiver rear panel | Connect the RF power meter to the antenna connector. | 10 W | | R1190 |
| | 7 | After adjustment, remove the jumper wire from L1025 and J1012. | | | | |
| CARRIER SUPPRESSION | 1 <ul style="list-style-type: none"> • Displayed frequency: 12500.0 kHz • Mode : USB and LSB • Apply no signal to the [MIC] connector. • Transmitting | Transceiver rear panel | Connect the spectrum analyzer to the antenna connector via the attenuator. | Minimum carrier level (Less than -50 dB) | MAIN | R1136, R1138 (Alternately adjust) |

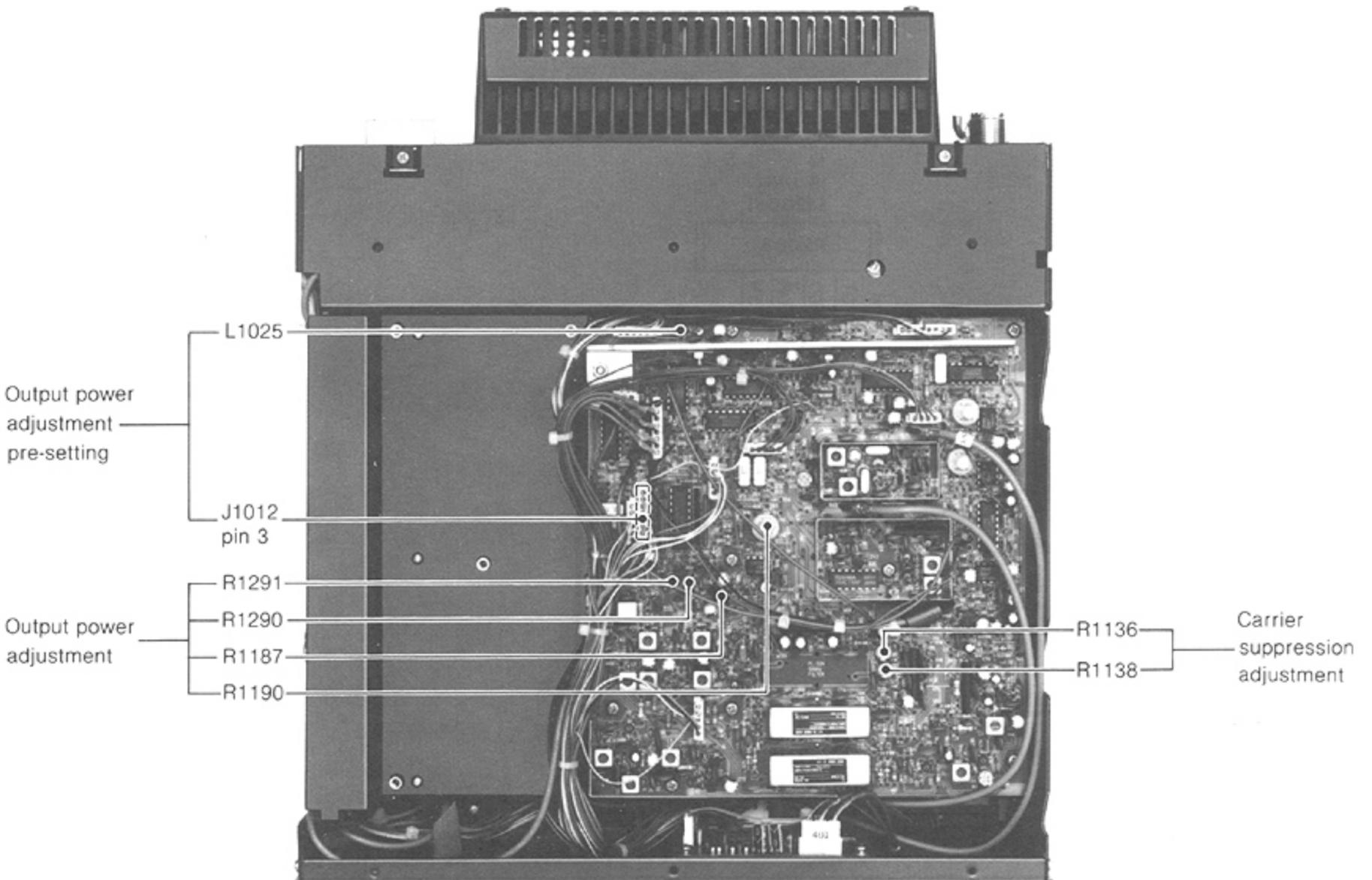
PA TR UNIT



RF UNIT



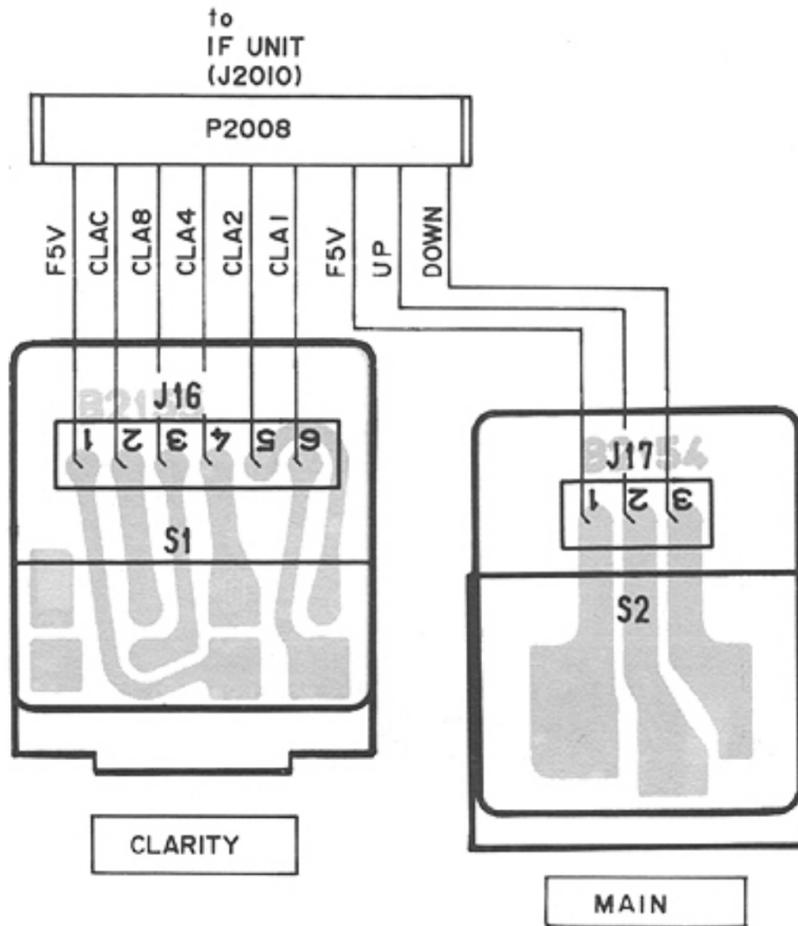
MAIN UNIT



SECTION 6 BOARD LAYOUTS

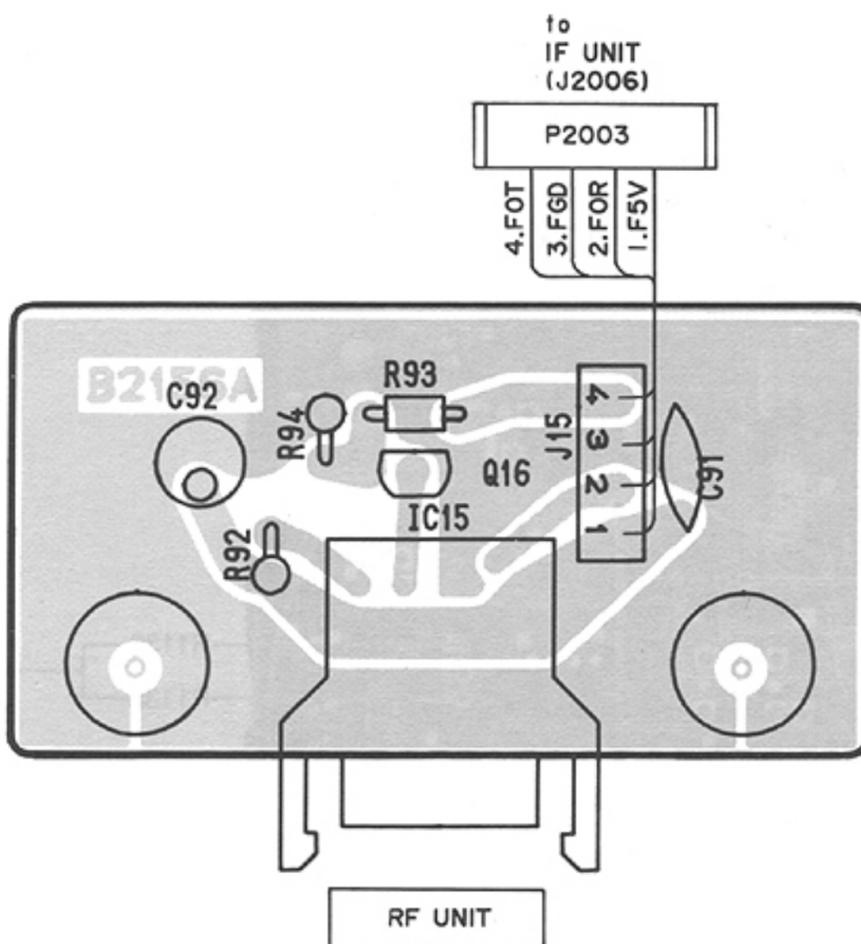
6-1 REMOTE CONTROLLER

• SENSOR AND SW UNITS

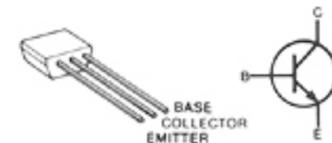


NOTE: Add "2000" to the indicated number on the unit for actual part number respectively.

• JACK UNITS

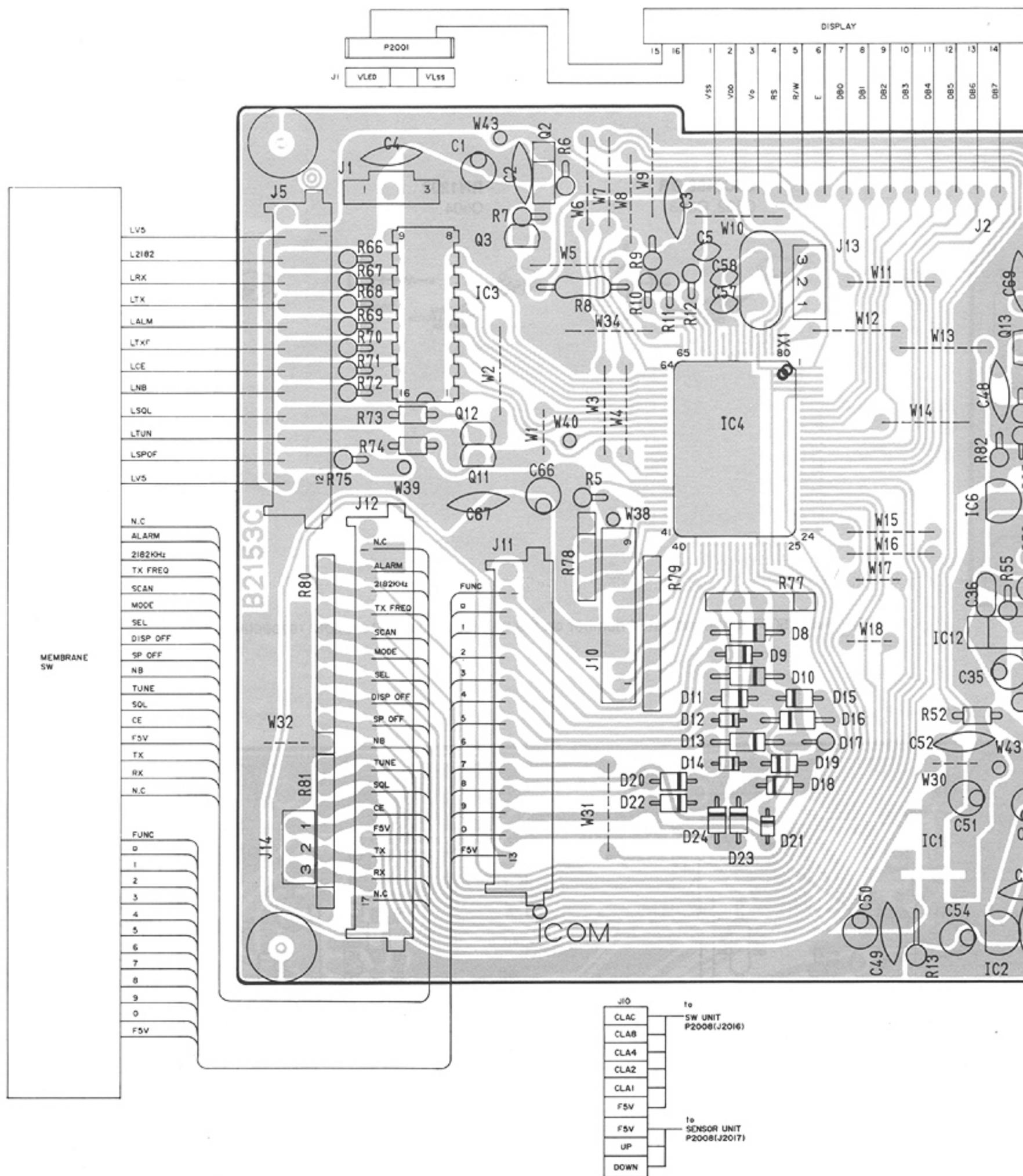


2SC2458-GR
Q2016



NOTE: Add "2000" to the indicated number on the unit for actual part number respectively.

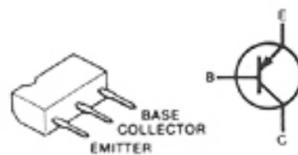
• IF UNIT



2SA1048-GR
Q2008



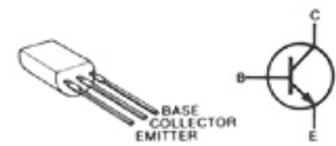
2SB909M Q
Q2002



2SC2458-Y
Q2001

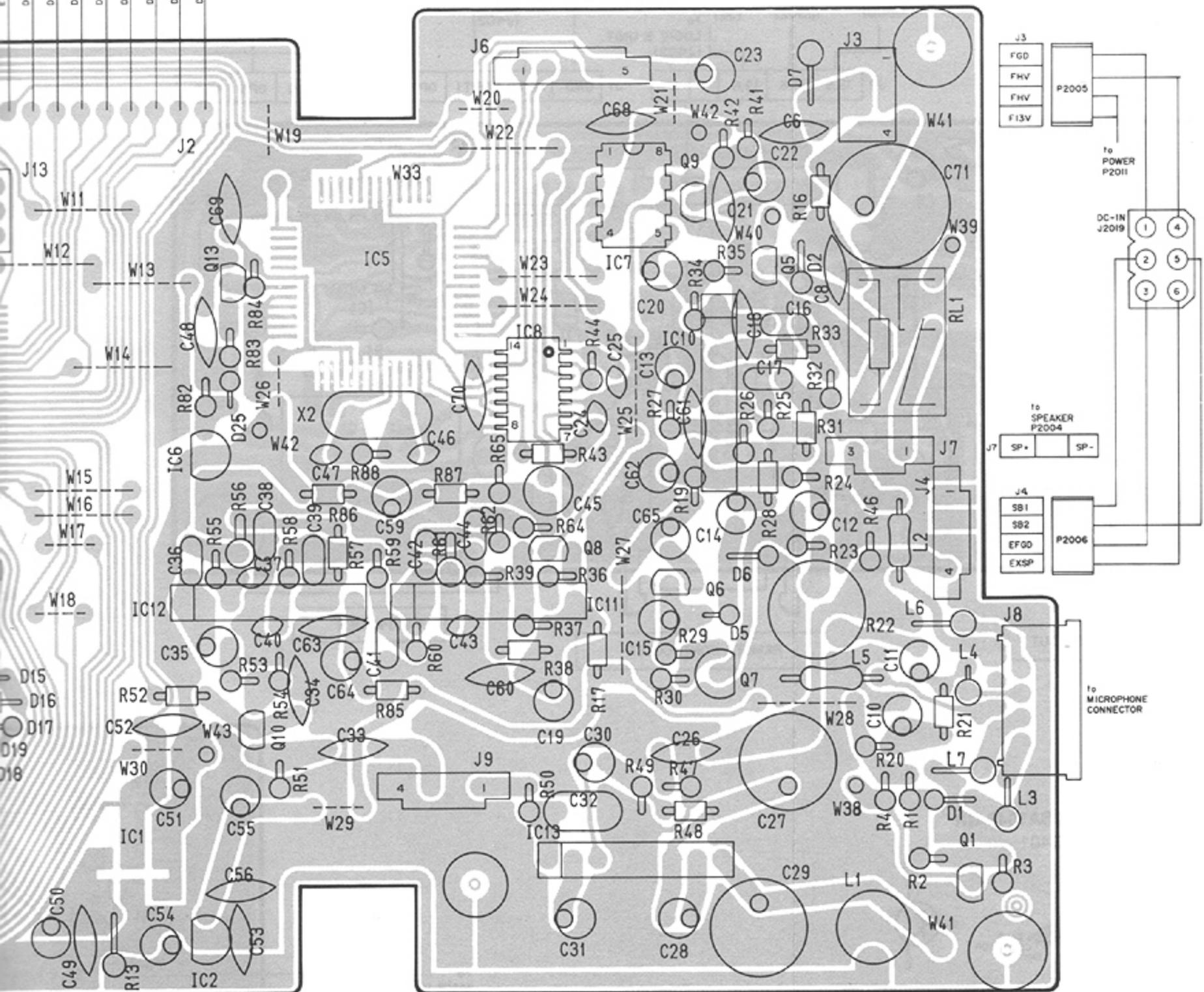


2SC2878-A
Q2007



| DISPLAY | | | | | | | | | | | | | |
|---------|-----|-----|-----|-----|-----|-----|-----|----|--|--|--|--|--|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | | | | |
| DB0 | DB1 | DB2 | DB3 | DB4 | DB5 | DB6 | DB7 | | | | | | |

| to JACK UNIT P2003(J2015) | | | | |
|---------------------------|-----|-----|-----|-----|
| J6 | F0T | F0R | F0D | F5V |



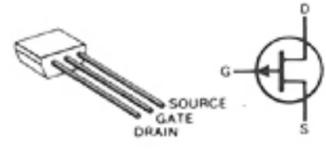
| J9 | | | |
|-----|------|-----|------|
| F0D | V0L1 | F0D | V0L2 |

to VOLUME P2007

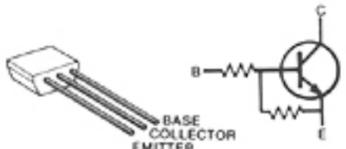
NOTE: Add "2000" to the indicated number on the unit for actual part number respectively.

A

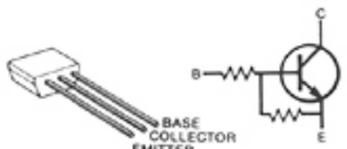
2SJ105-Y
Q2010



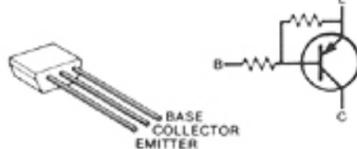
RN1202
Q2005



RN1204
Q2003, Q2006, Q2011
Q2012, Q2013

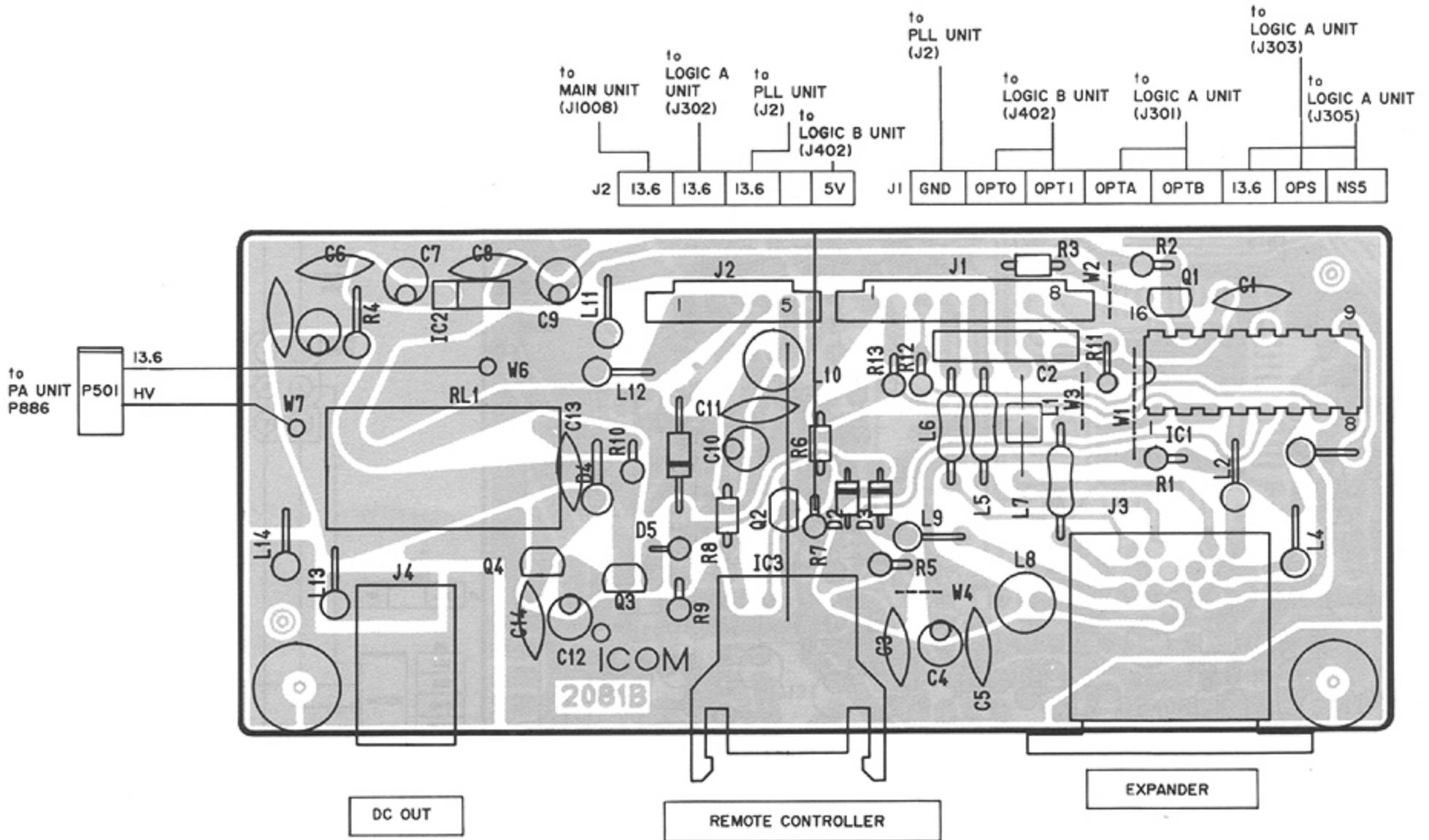


RN2202
Q2009

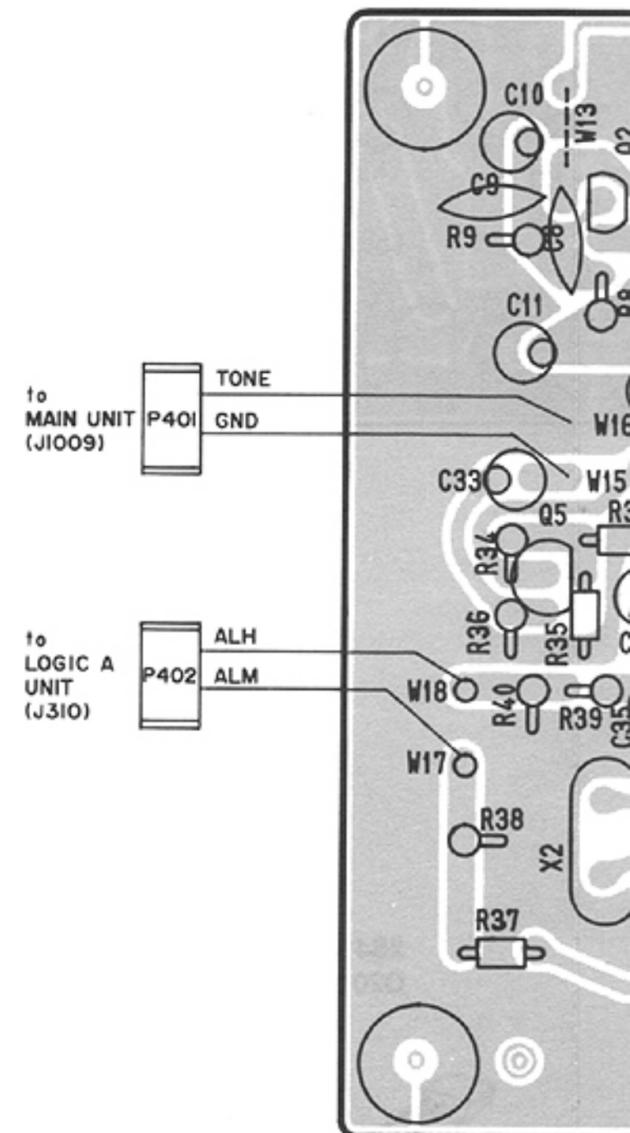
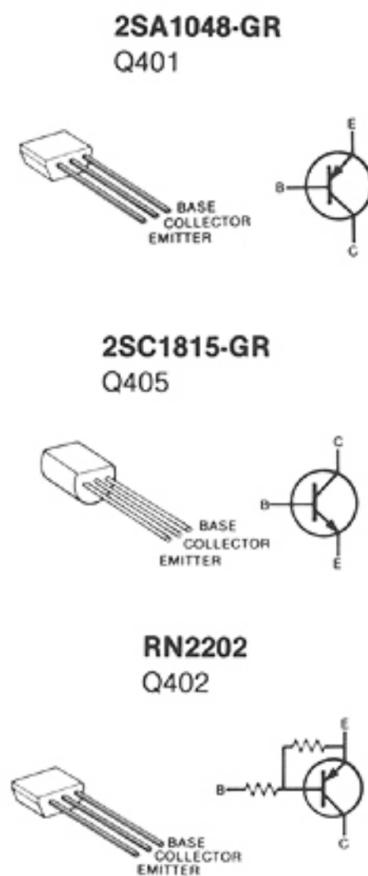


6-2 TRANSCEIVER (1)

• CONNECT UNIT



• LOGIC-B UNIT



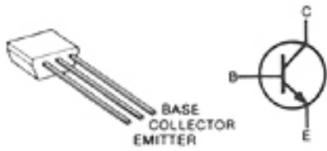
NOTE: Add "400" to the indicated number on the unit for actual part number respectively.

A UNIT

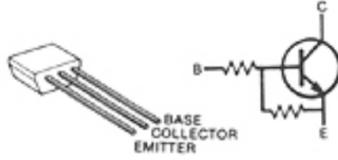
to LOGIC A UNIT (J305)

S NS5

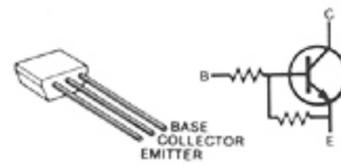
2SC2458-GR
Q502, Q503



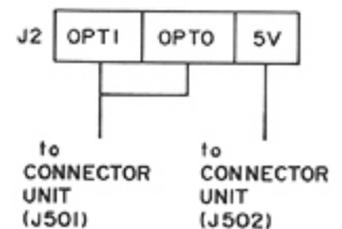
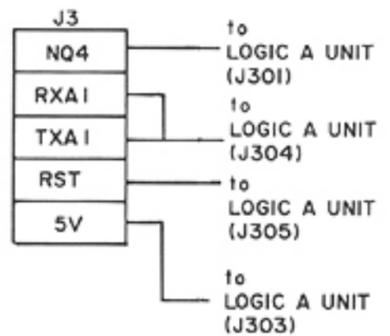
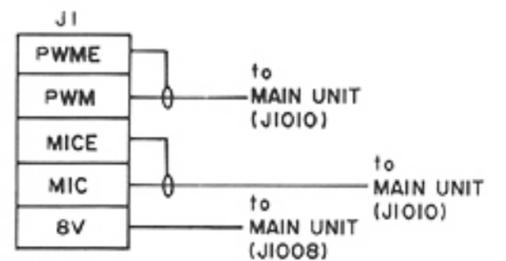
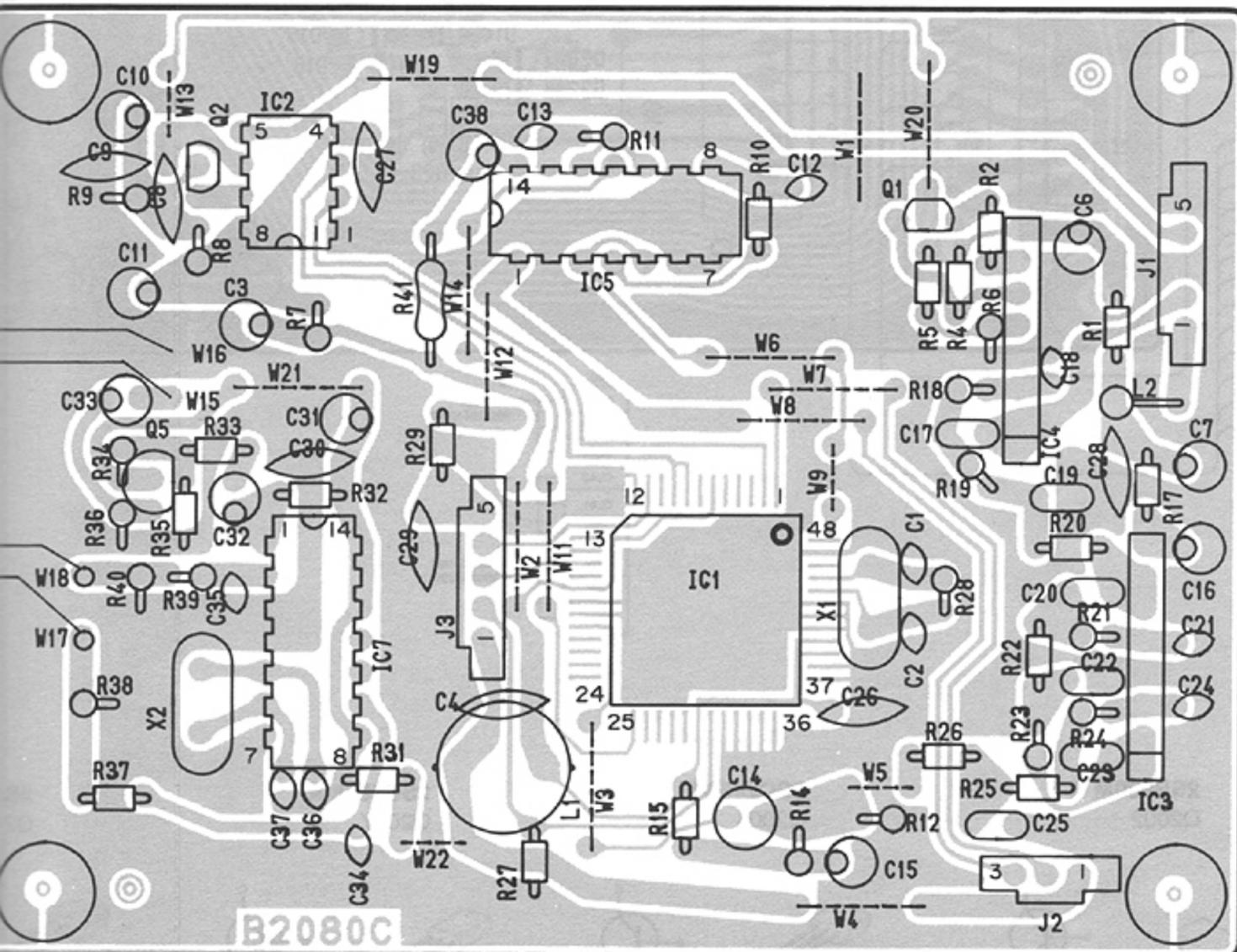
RN1202
Q504



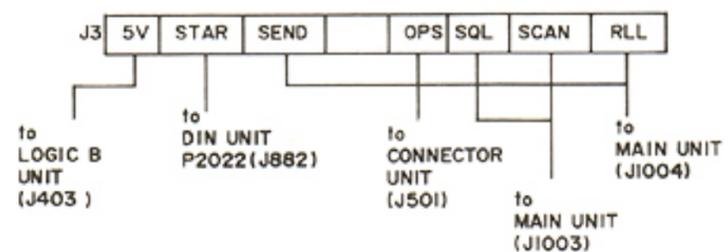
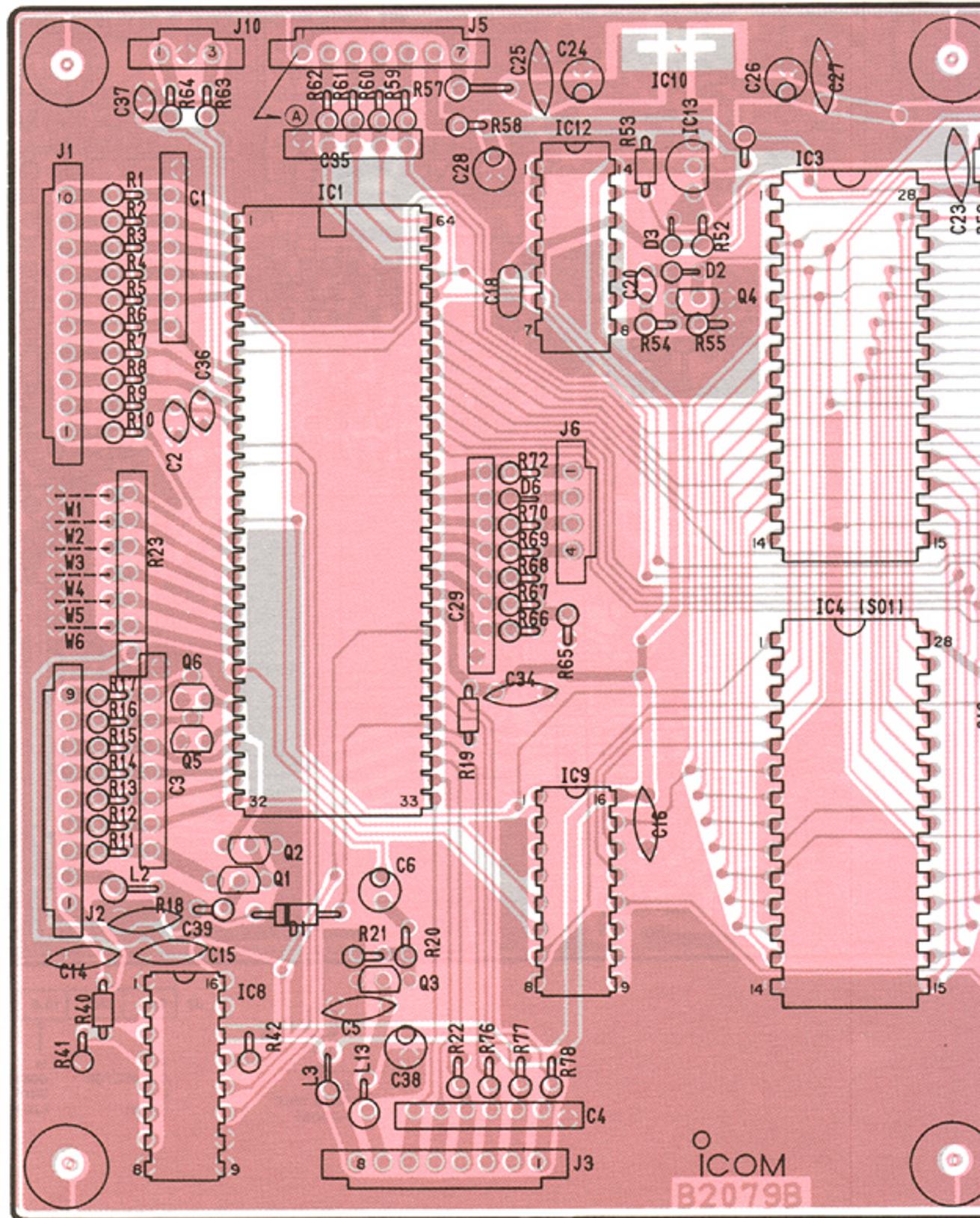
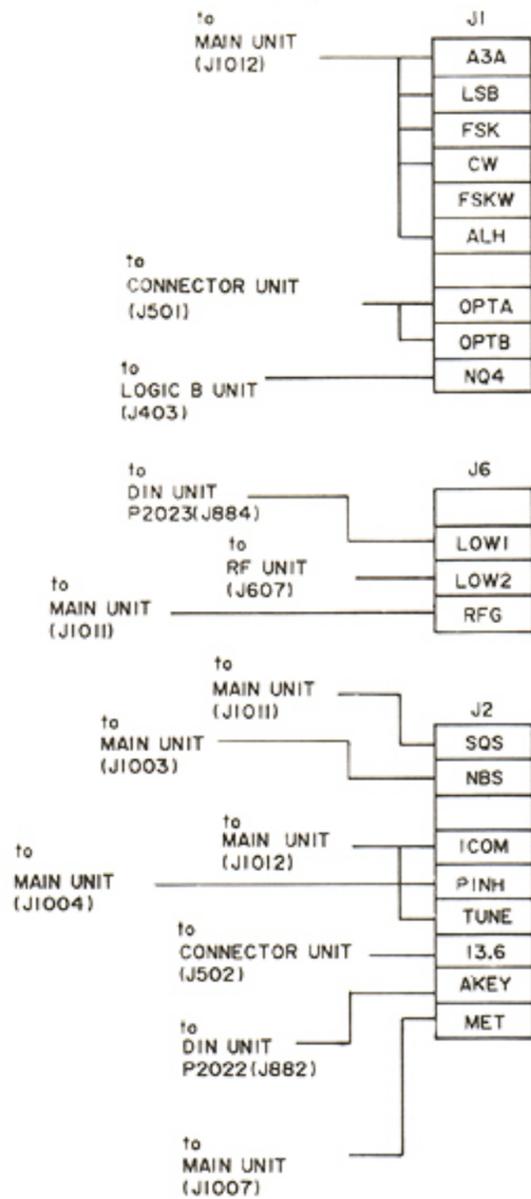
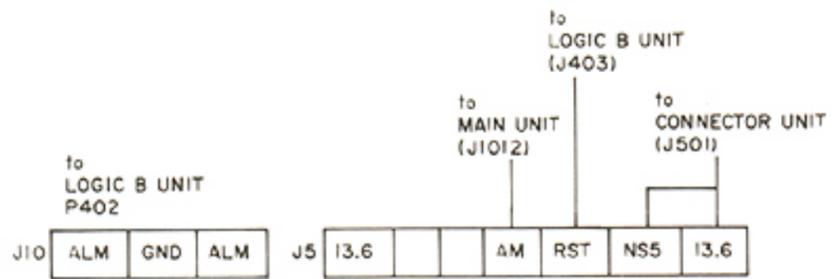
RN1204
Q501



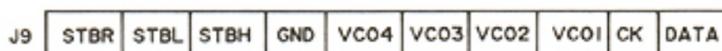
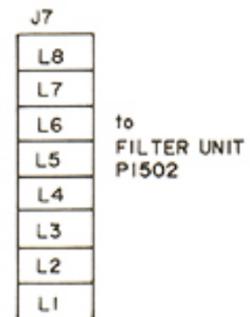
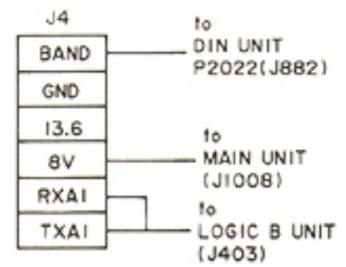
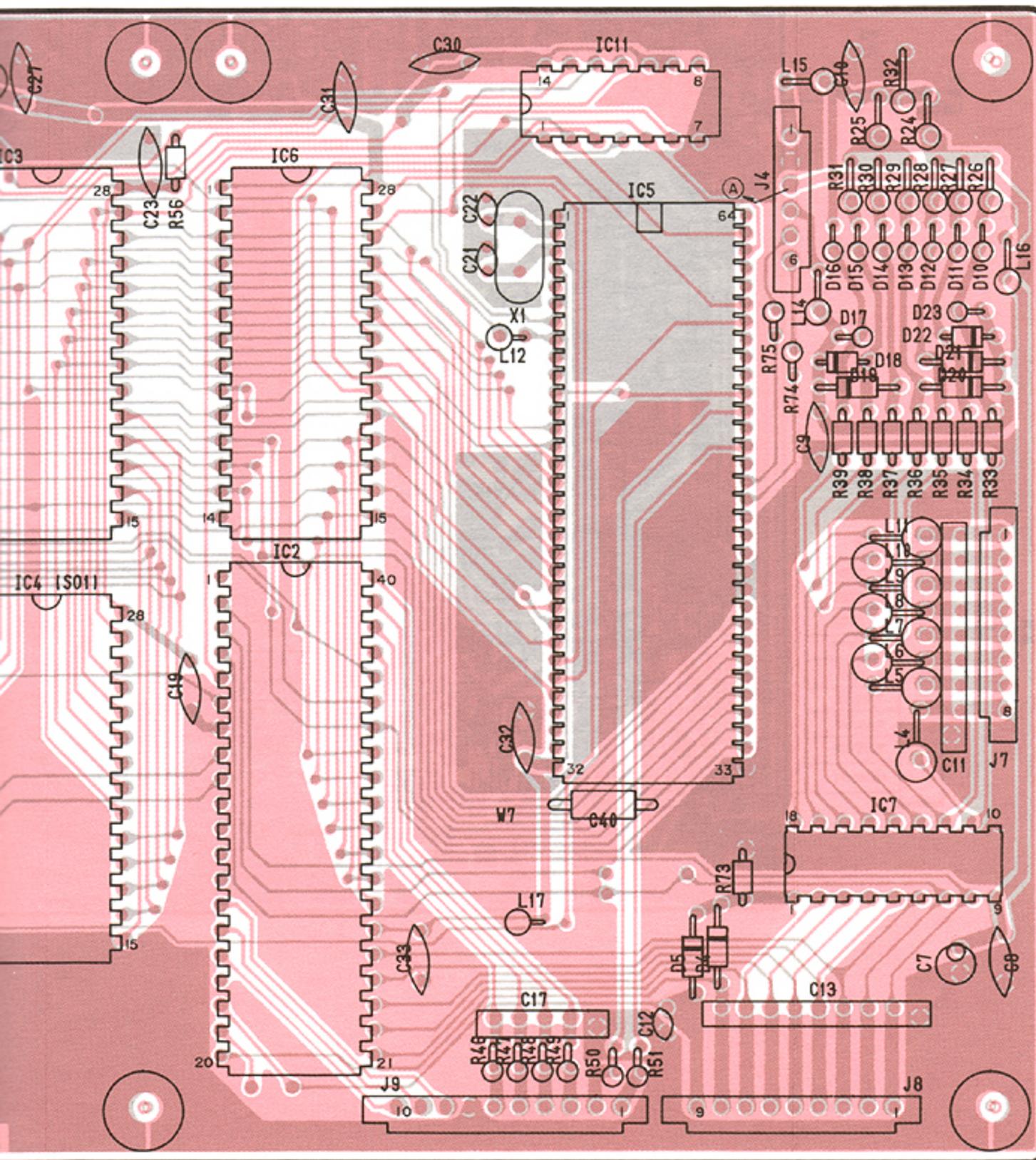
NOTE: Add "500" to the indicated number on the unit for actual part number respectively.



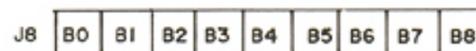
• LOGIC-A UNIT



NOTE: Add "300" to the indicated number on the unit for actual part number respectively.

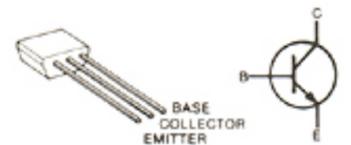


to PLL UNIT P5(J1)

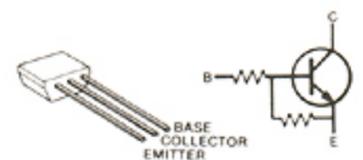


to RF UNIT (J608)

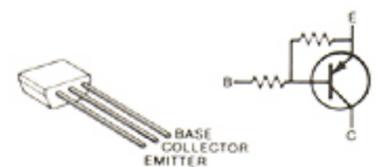
2SC2458-Y
Q303, Q304



RN1204
Q302, Q305, Q306

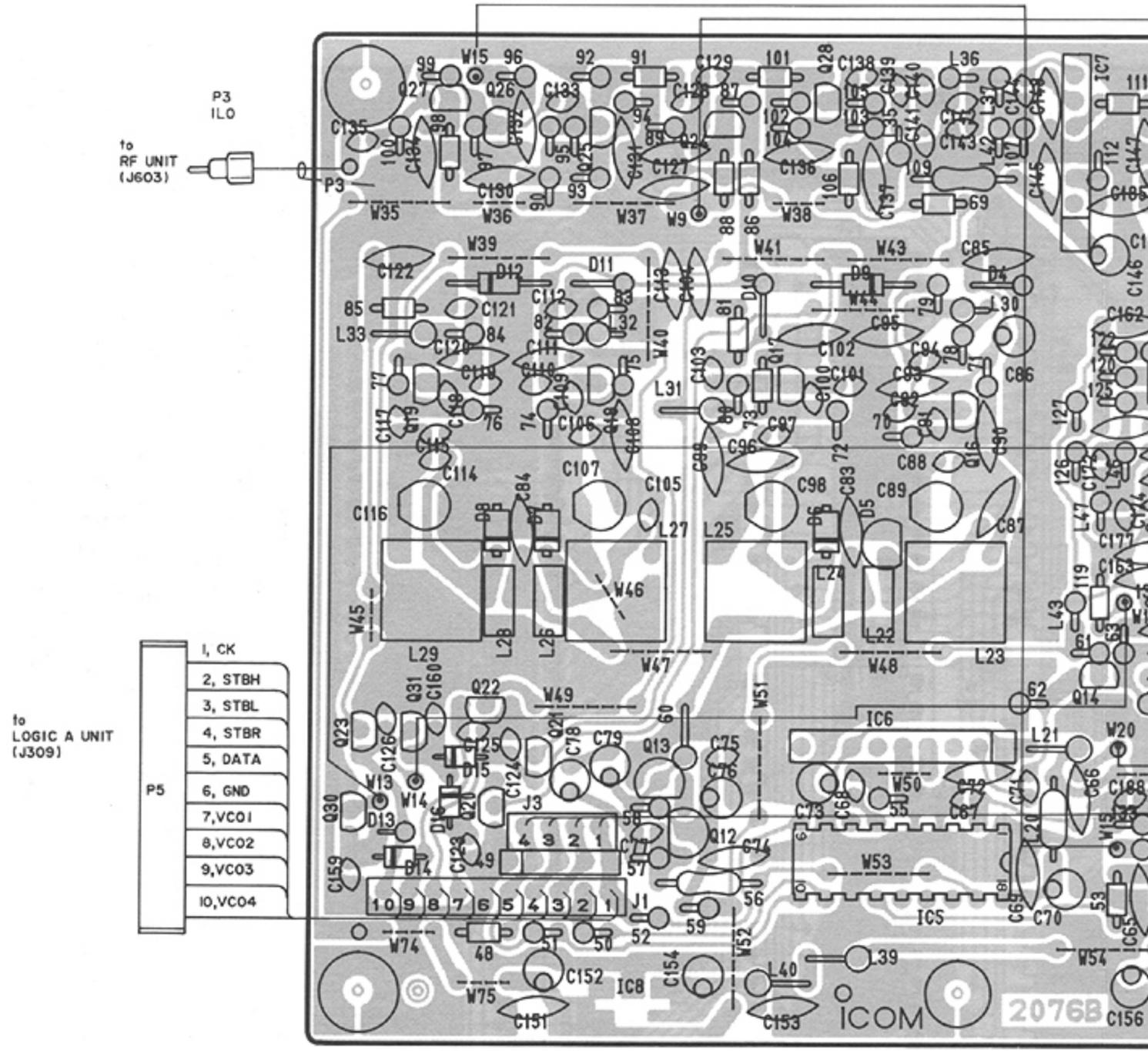


RN2202
Q301

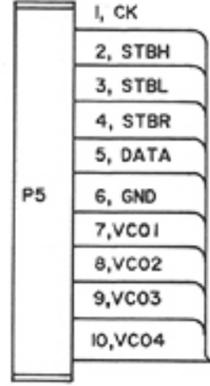


6-3 TRANSCEIVER (2)

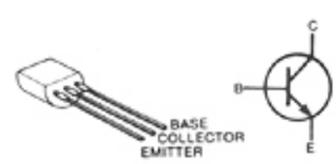
• PLL UNIT



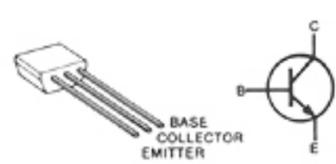
to LOGIC A UNIT (J309)



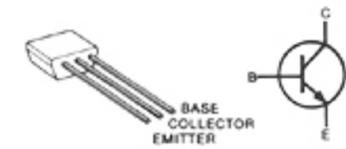
2SC1571G
Q12, Q13



2SC2458-GR
Q5

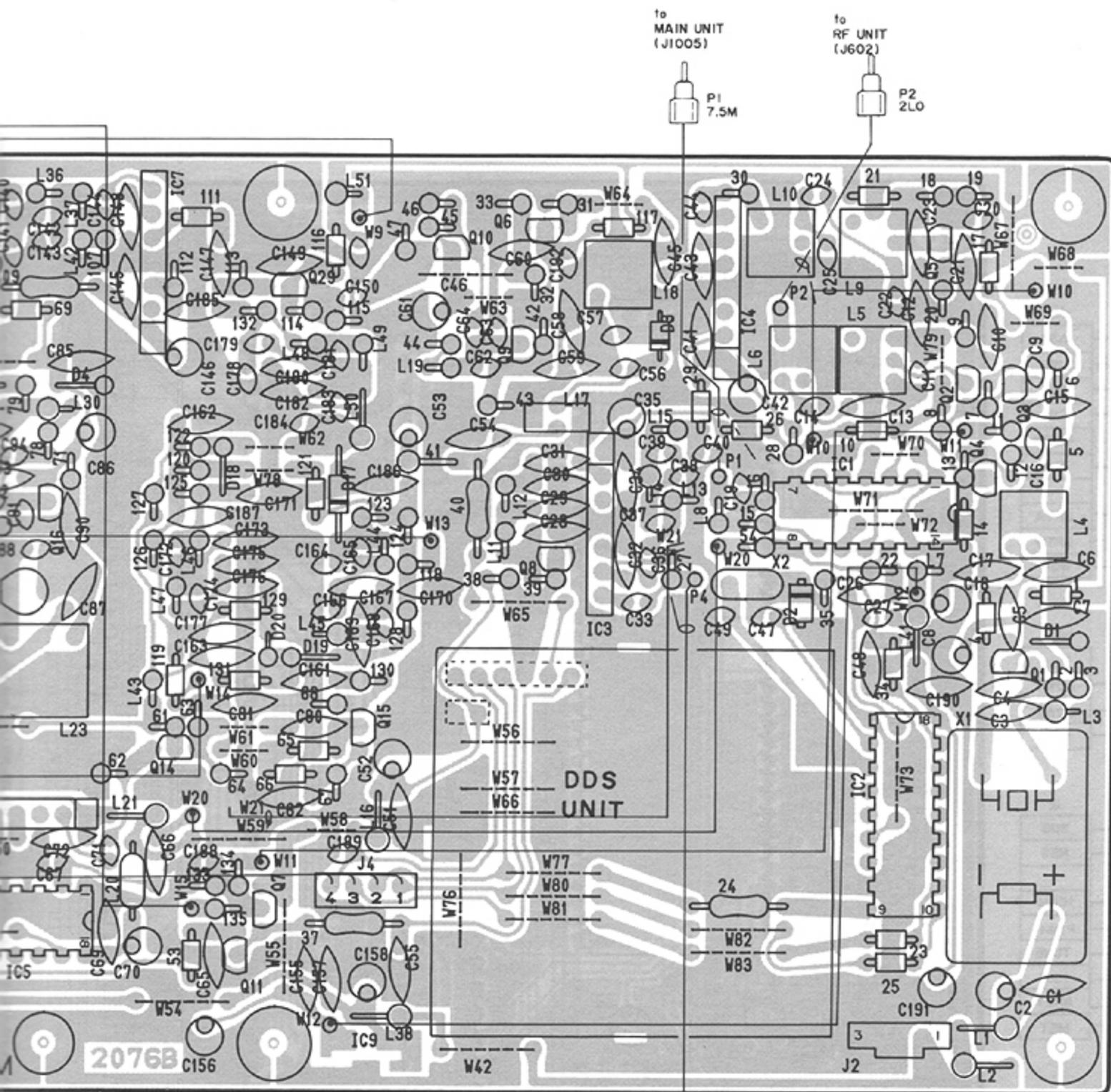


2SC2668-O
Q1, Q10, Q14
Q15, Q2, Q24
Q25, Q27, Q28
Q29, Q4, Q6
Q8



2SK192A-C
Q16, Q17, Q19, Q9





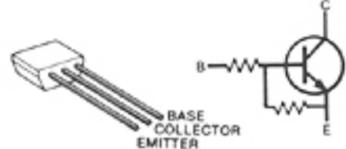
2SK192A-GR
Q16, Q17, Q18
Q19, Q9



RN1202
Q20, Q21, Q22
Q23



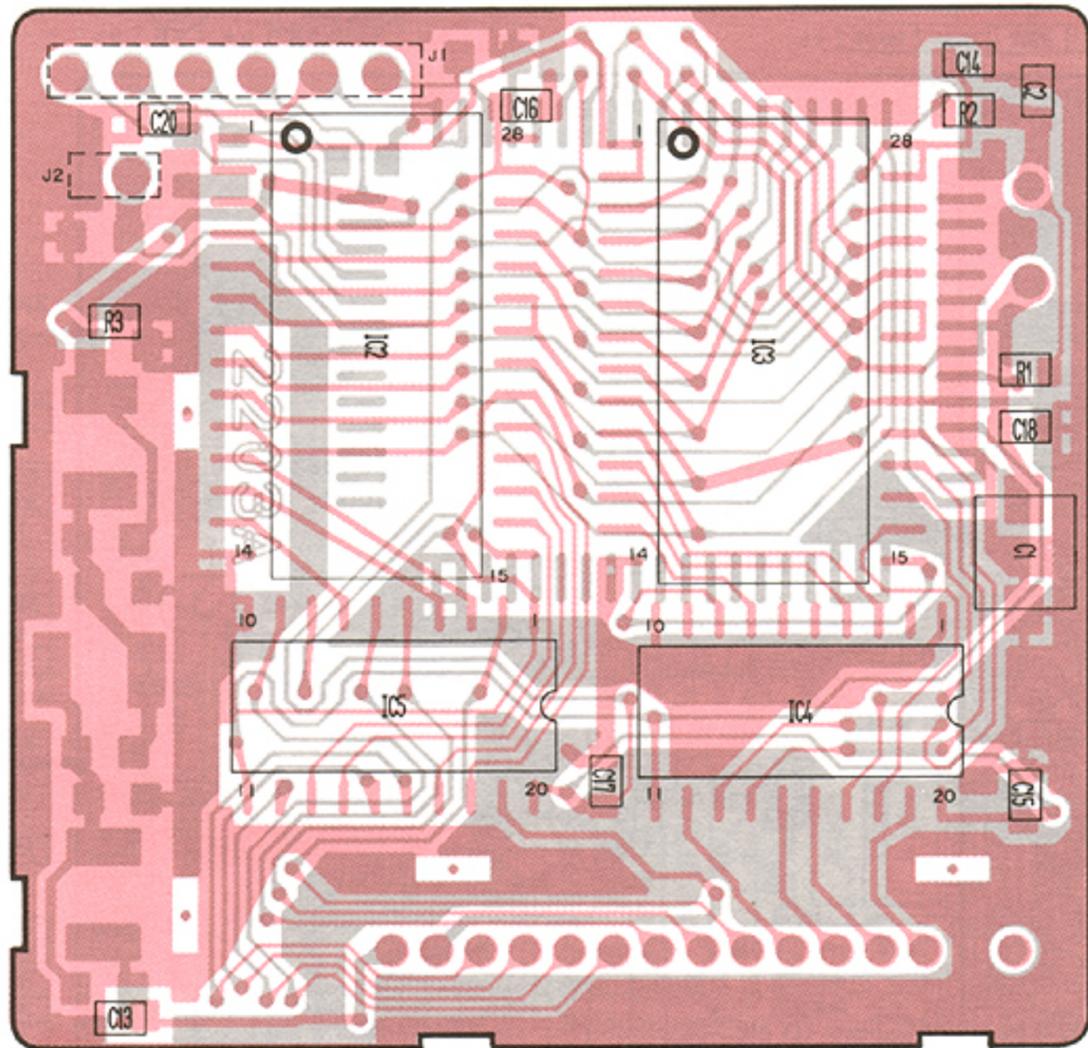
RN1204
Q11, Q26, Q3
Q30, Q31



RN2204
Q7

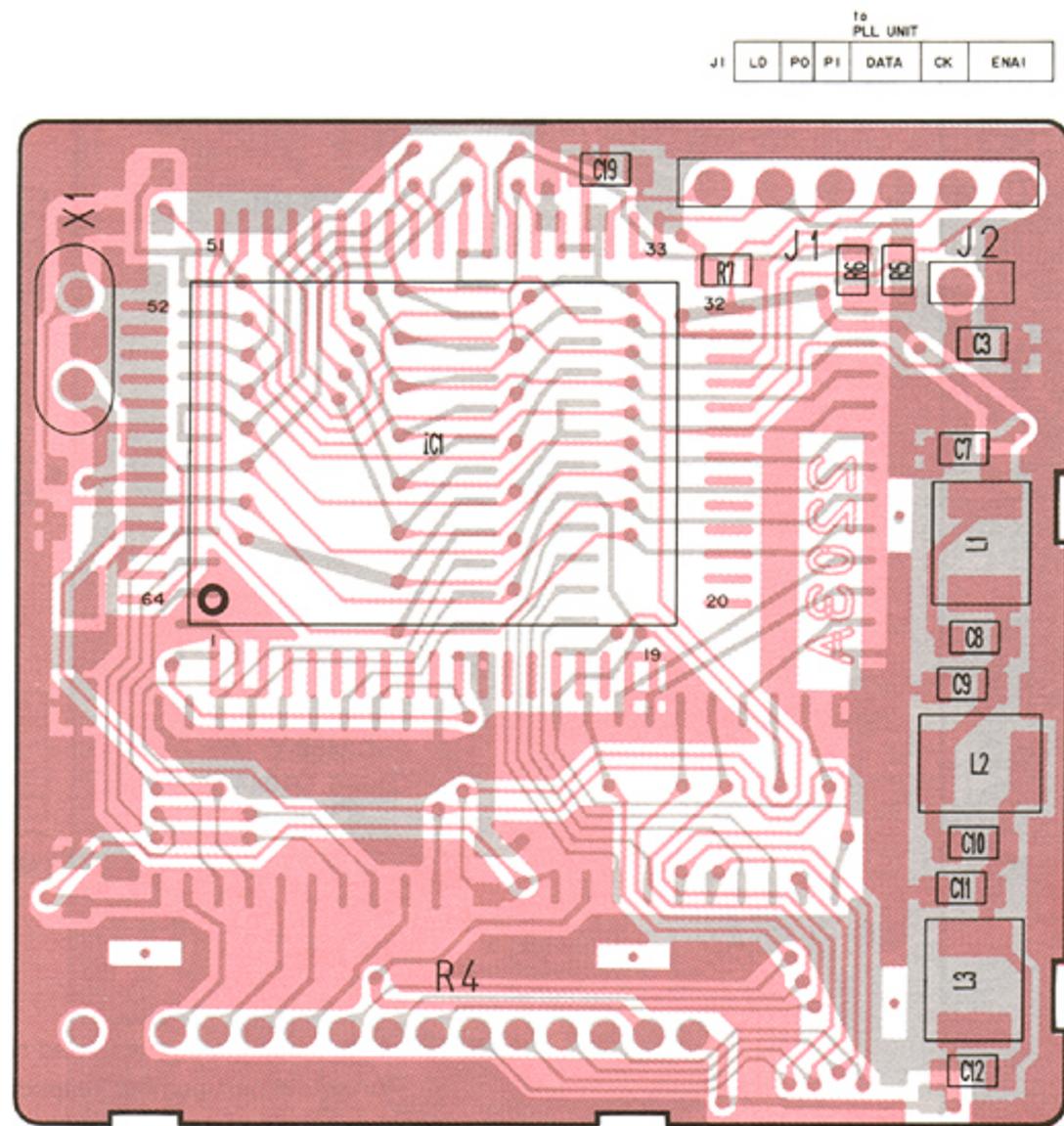


• DDS UNIT
COMPONENT SIDE



FOIL SIDE
COMPONENT SIDE

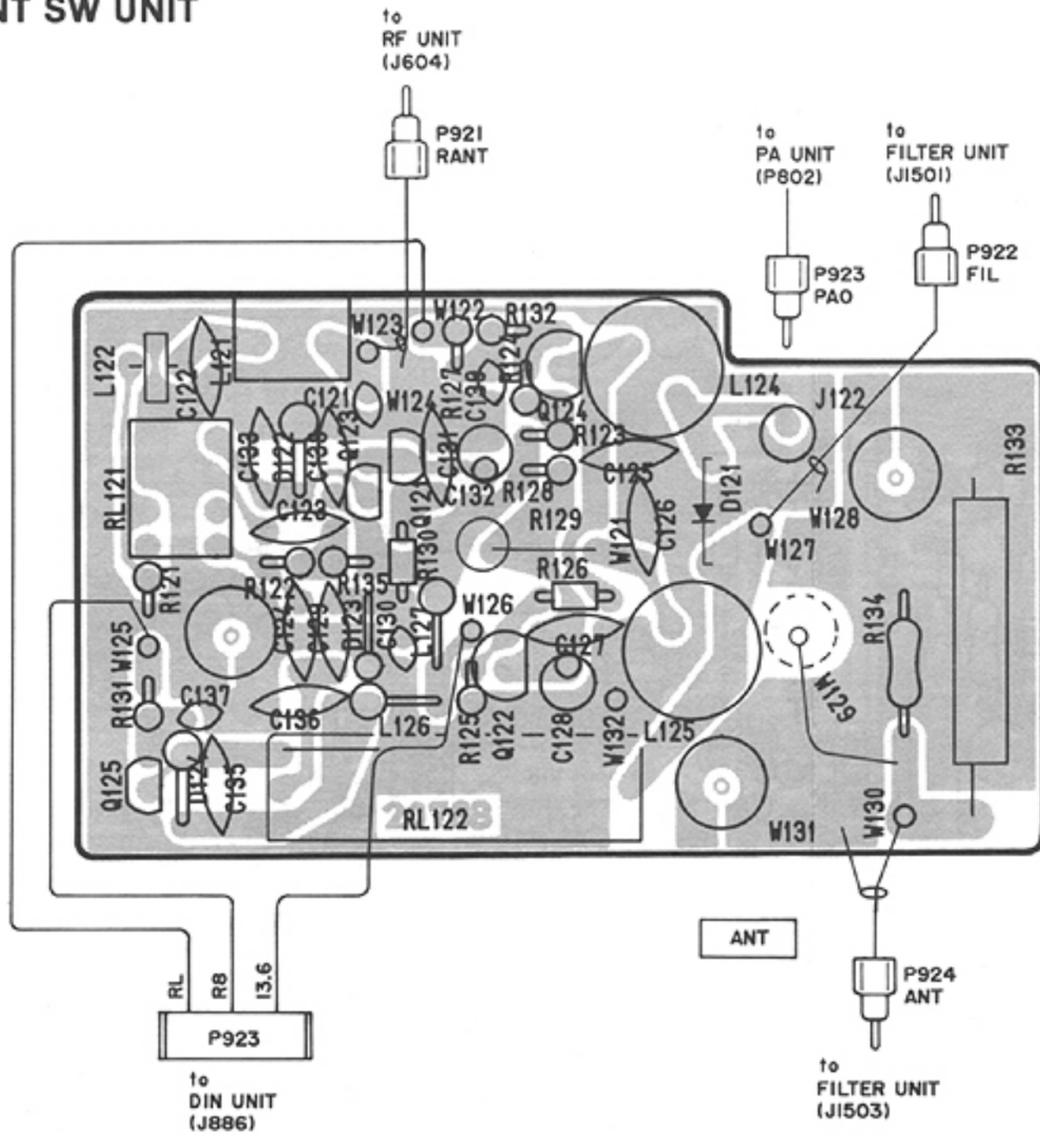
FOIL SIDE



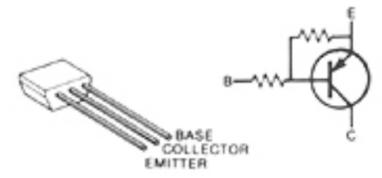
FOIL SIDE
COMPONENT SIDE

NOTE: Add "200" to the indicated number on the unit for actual part number respectively.

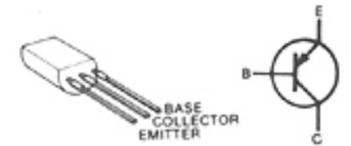
• ANT SW UNIT



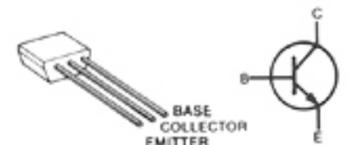
2SA1345
Q923



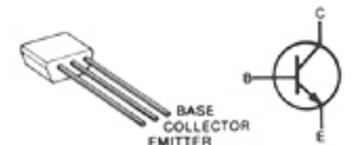
2SB562C
Q924



2SC2458-GR
Q921

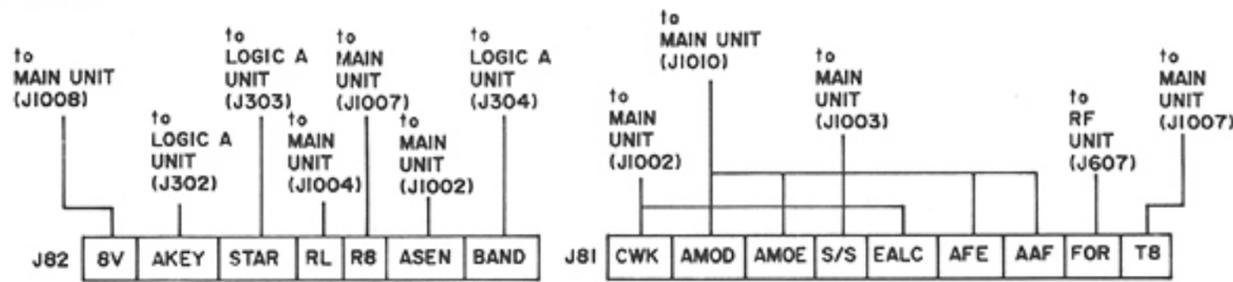


2SC3402
Q925

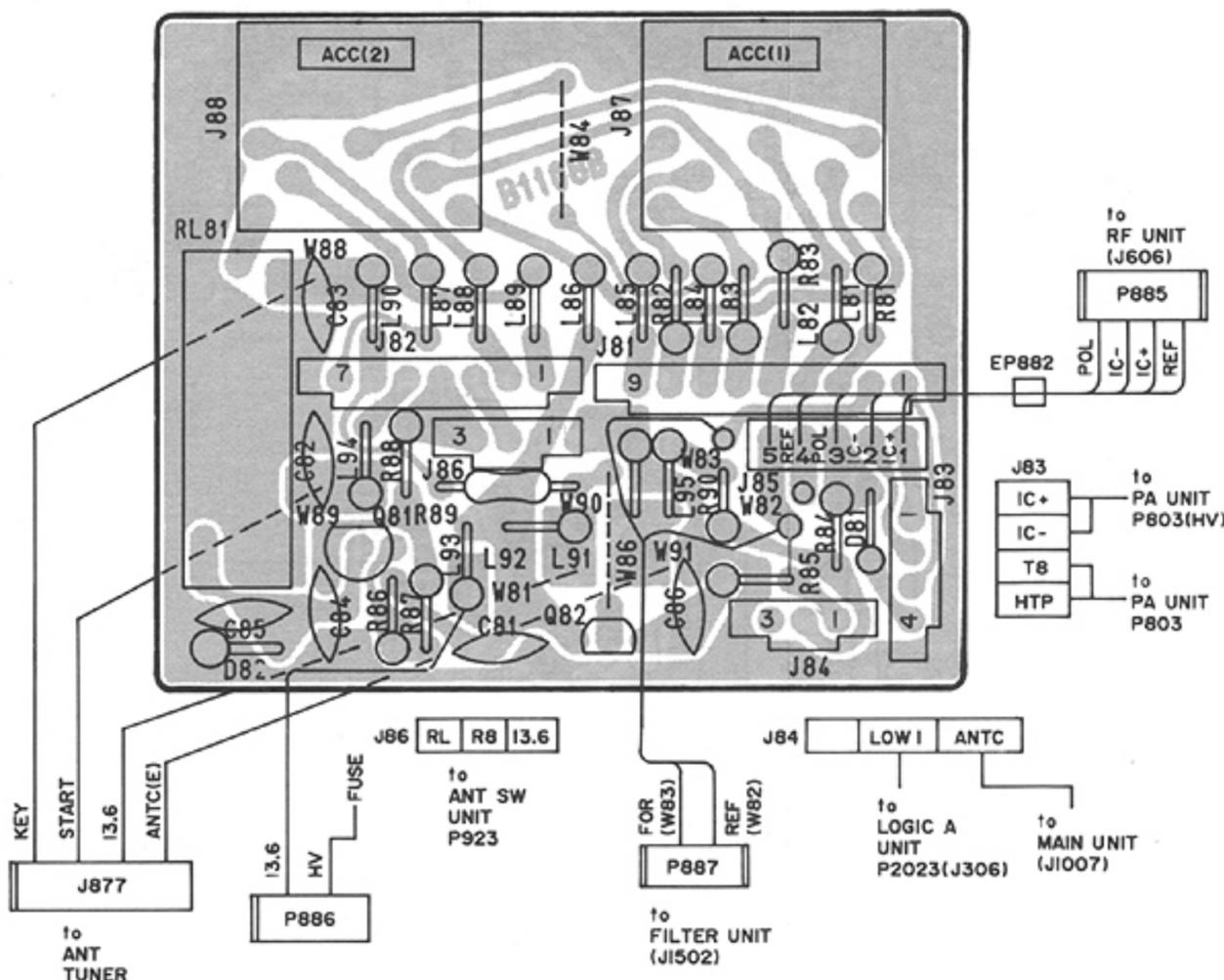
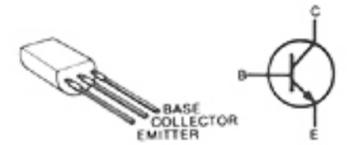


NOTE: Add "800" to the indicated number on the unit for actual part number respectively.

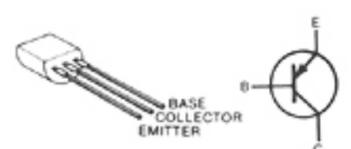
• DIN UNIT



2SD468C
Q922



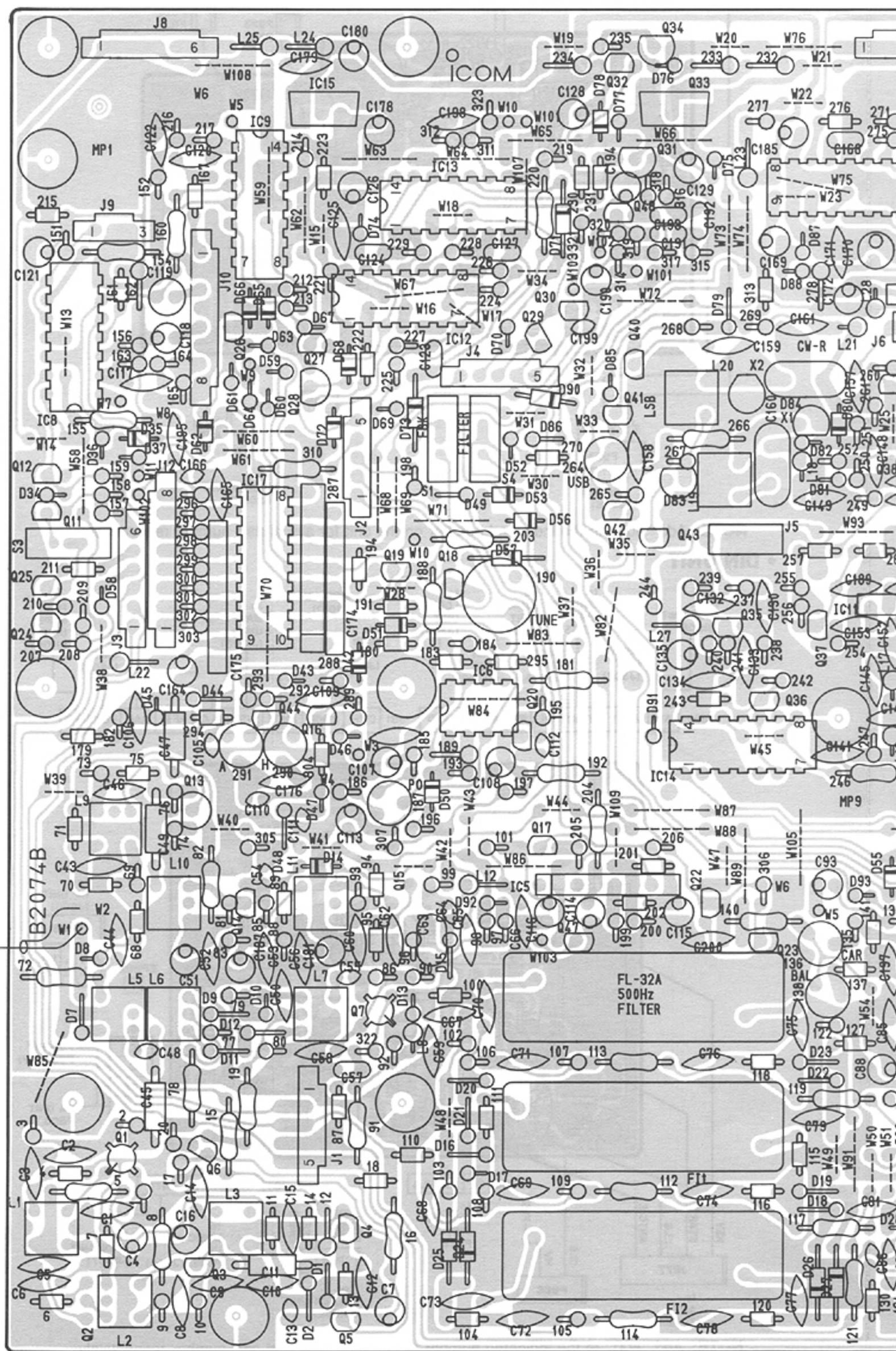
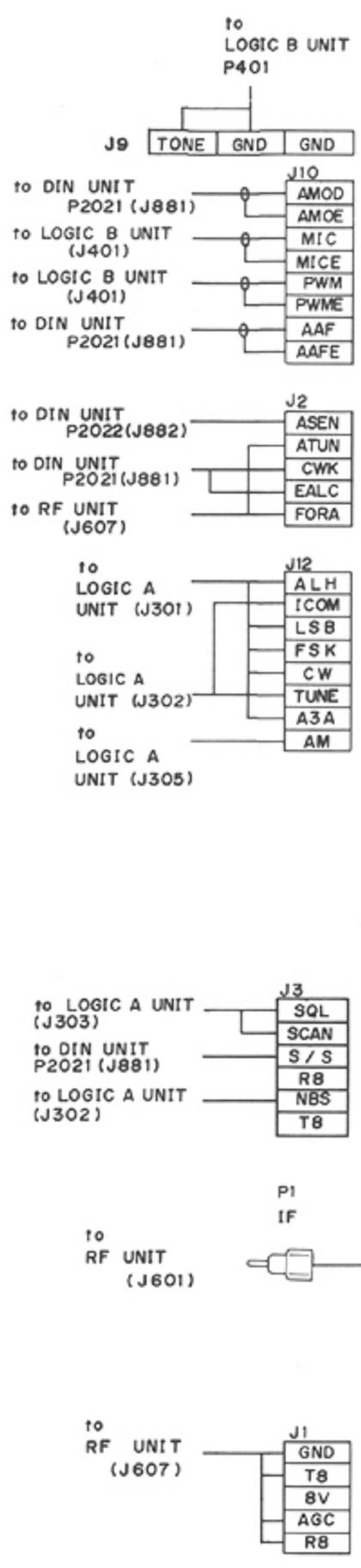
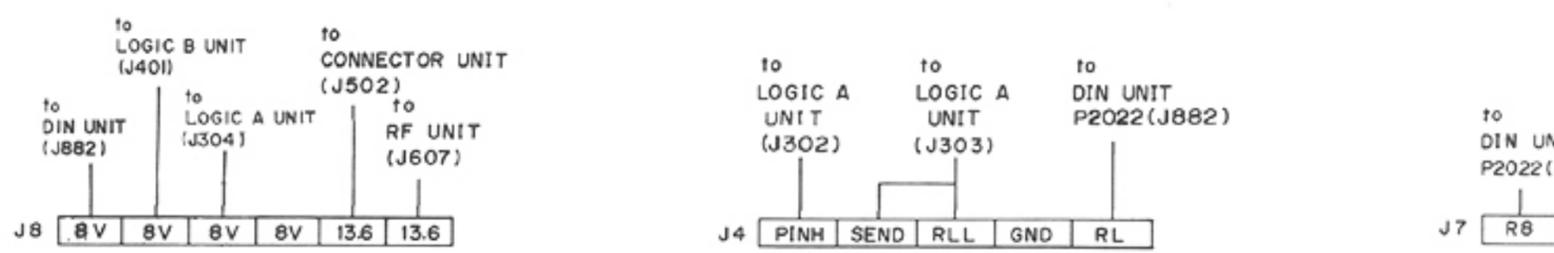
2SA1015-Y
Q881



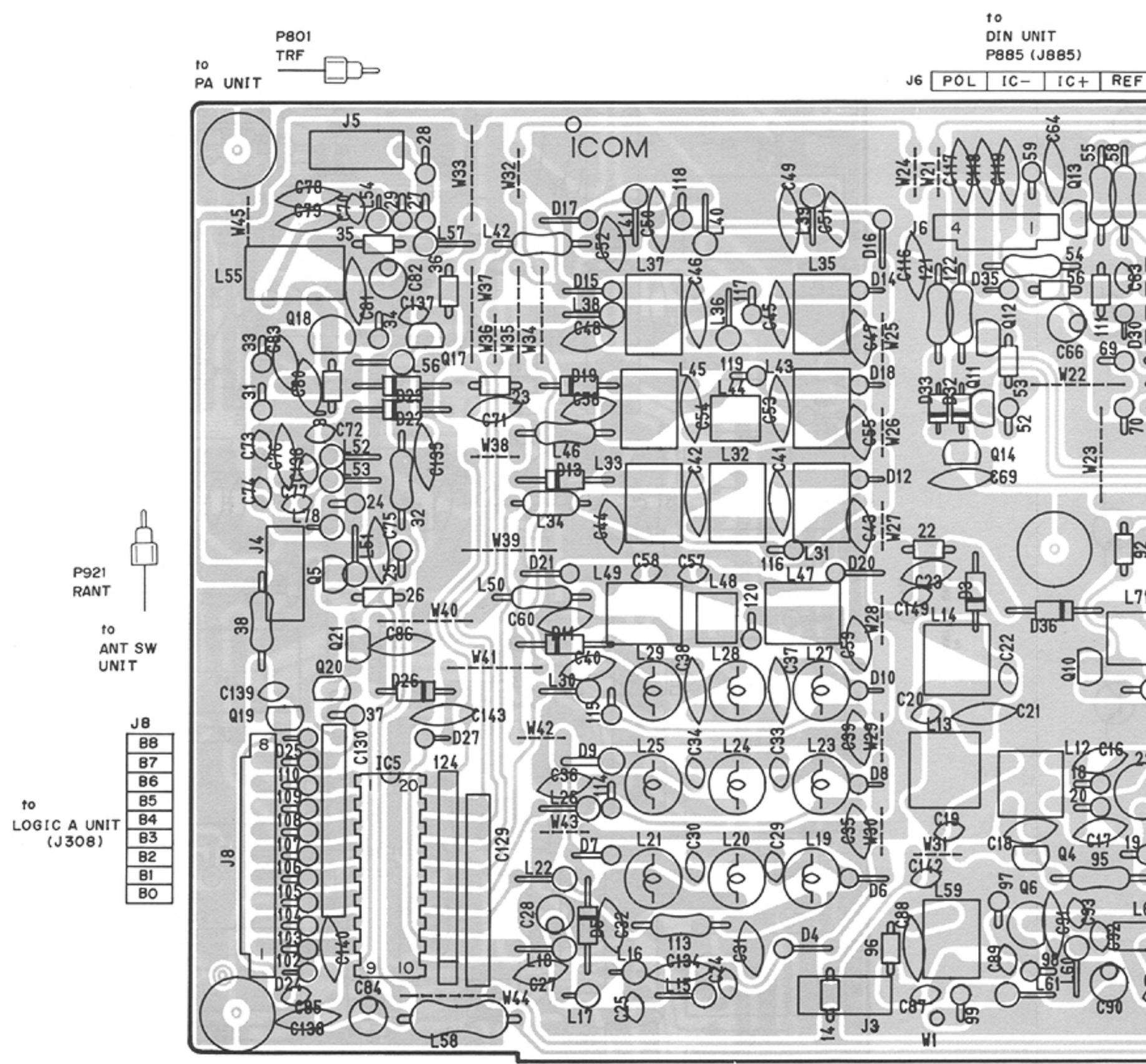
NOTE: Add "800" to the indicated number on the unit for actual part number respectively.

6-4 TRANSCEIVER (3)

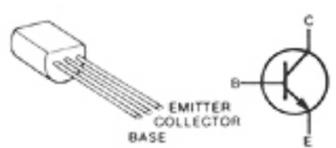
• MAIN UNIT



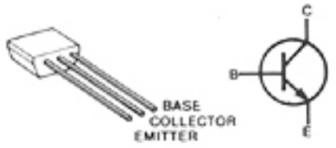
• RF UNIT



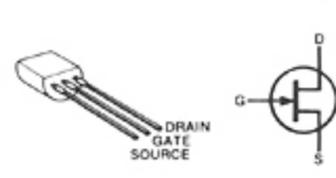
2SC2053
Q606, Q618



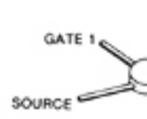
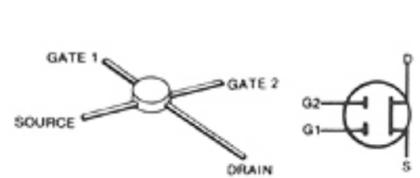
2SC2458-Y
Q613

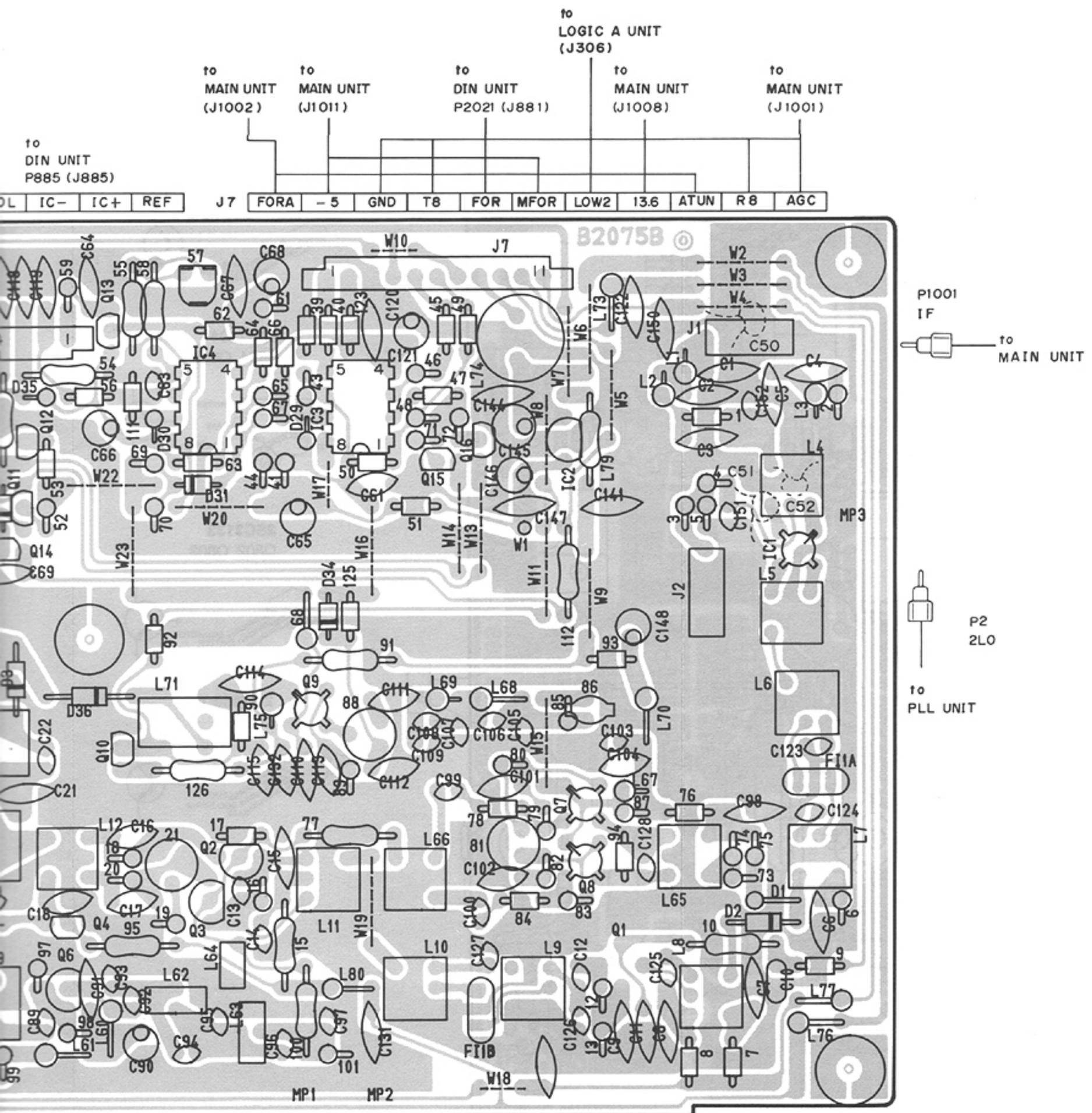


2SK125
Q602, Q603



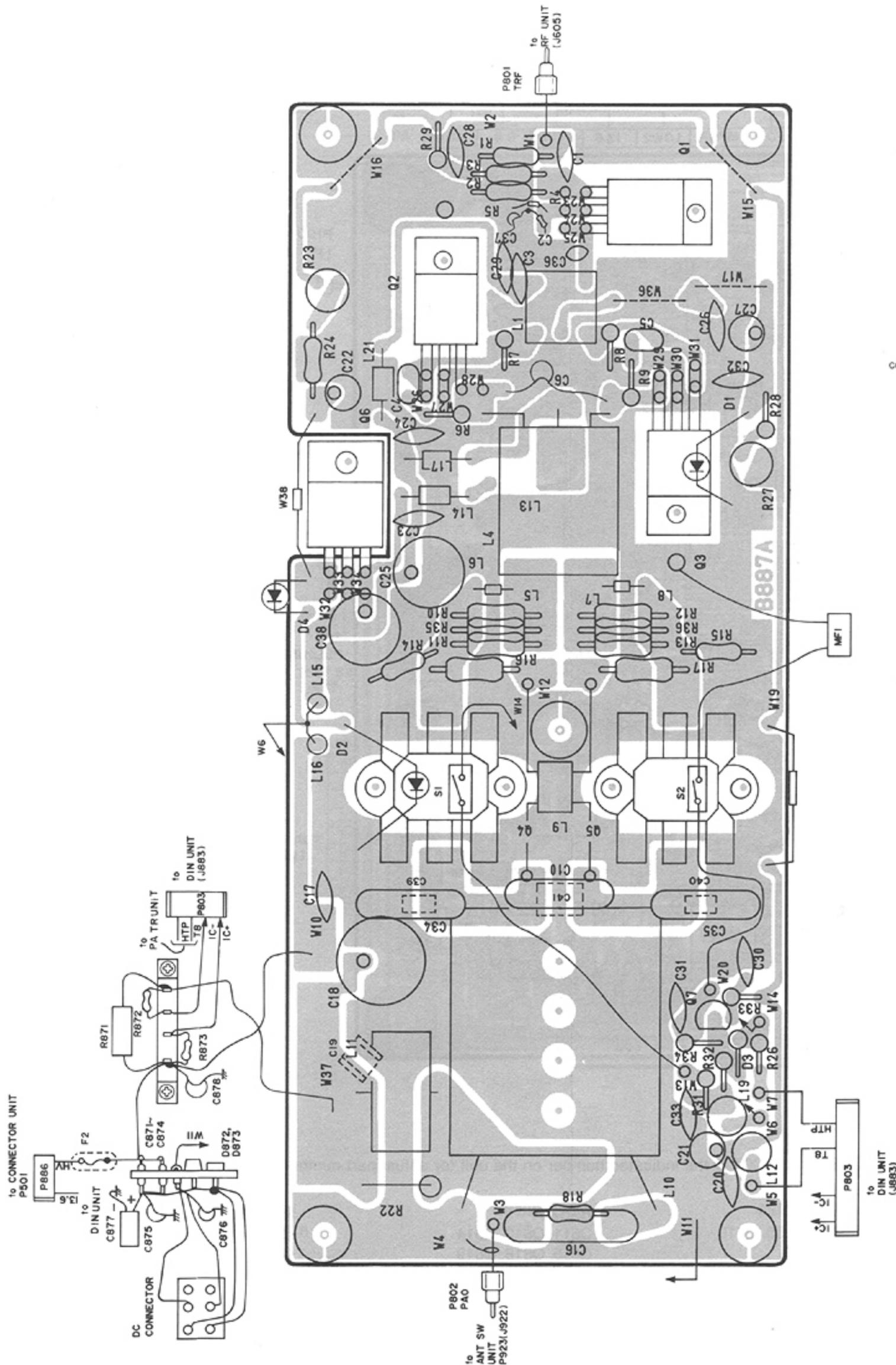
3SK74 K
Q607, Q608



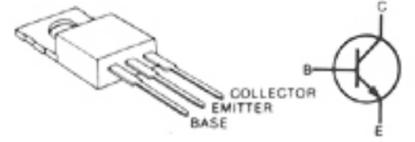


6-5 TRANSCEIVER (4)

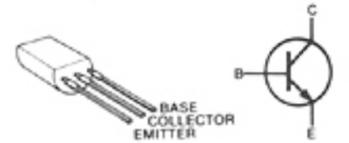
• PA TR UNIT



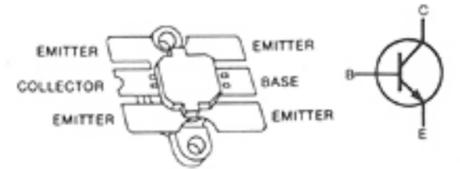
2SC1971
Q801



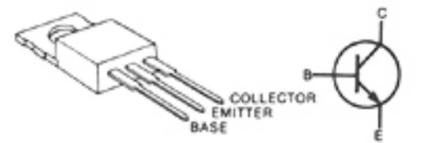
2SC2120-Y
Q807



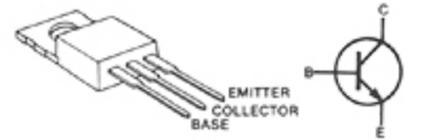
2SC2904
Q804, Q805



2SC3133
Q802, Q803

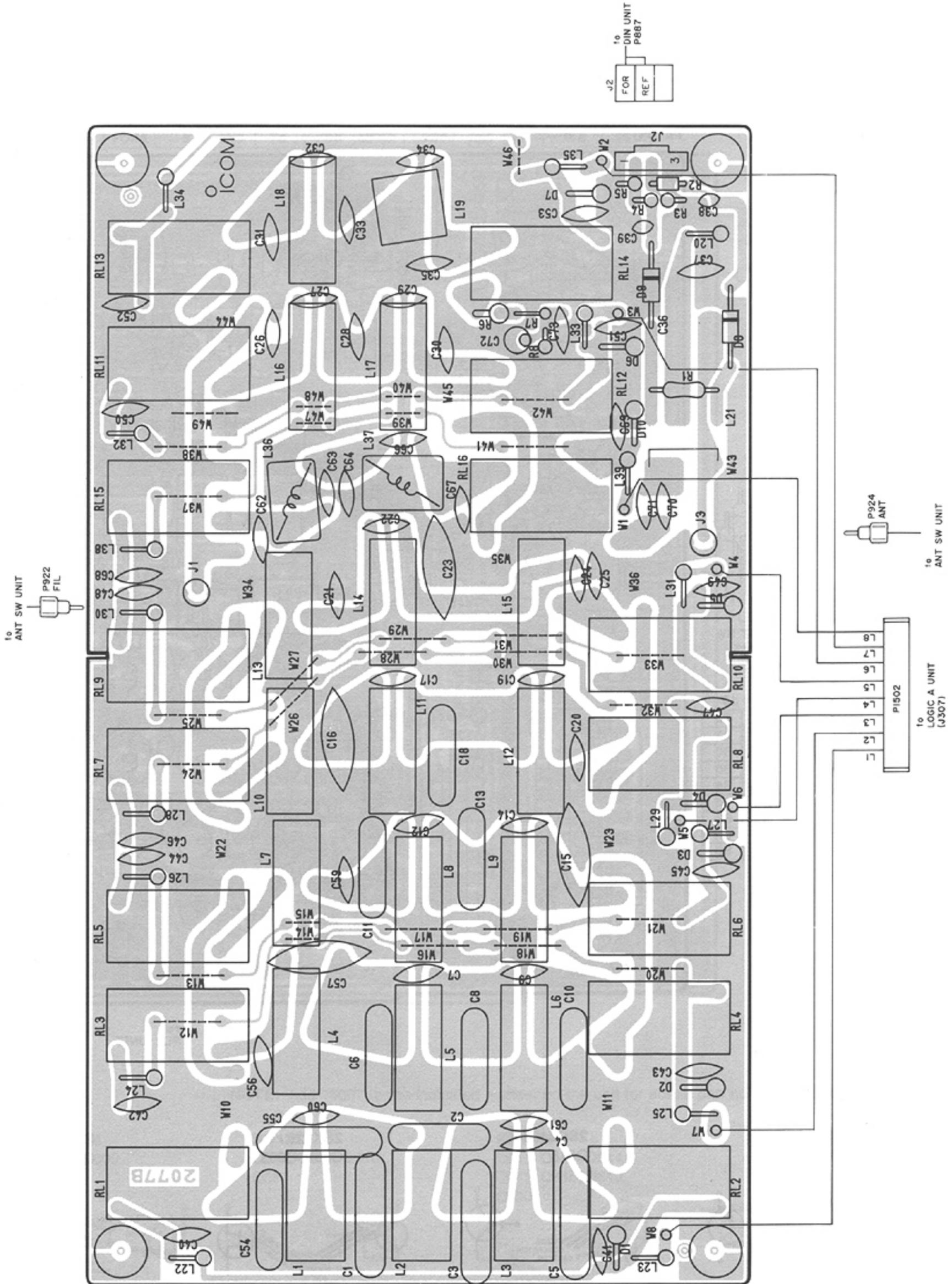


2SD880-Y
Q806



NOTE: Add "800" to the indicated number on the unit for actual part number respectively.

• FILTER UNIT



NOTE: Add "1500" to the indicated number on the unit for actual part number respectively.

SECTION 7 PARTS LIST

[SENSOR UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|---------------|
| S2002 | 2250000020 | Switch | SRB18100 25KC |
| EP2002 | 0910022670 | P.C. Board | B 2154 |

[JACK UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|--------------|------------------|
| IC2015 | 1170000110 | IC | GP-1F01D |
| Q2016 | 1530000110 | Transistor | 2SC2458-GR |
| R2092 | 7010003320 | Resistor | ELR20J 220 Ω |
| R2093 | 7010004320 | Resistor | R20J 10 kΩ |
| R2094 | 7010003530 | Resistor | ELR20J 10 kΩ |
| C2091 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C2092 | 4510003040 | Electrolytic | 16 SS 100 μF |
| EP2005 | 0910022661 | P.C. Board | B 2156A |

[SW UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|------------|
| S2001 | 2210000590 | Switch | SRRS1S017A |
| EP2003 | 0910022640 | P.C. Board | B 2155 |

[IF UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|------------|
| IC2001 | 1180000340 | IC | TA78005AP |
| IC2002 | 1180000030 | IC | TA78L008AP |
| IC2003 | 1120000240 | IC | M54519P |
| IC2004 | 1140001150 | IC | HD647180 |
| IC2005 | 1140001050 | IC | SC1105 |
| IC2006 | 1110001680 | IC | S-8054ALB |
| IC2007 | 1110001460 | IC | μPC1555C |
| IC2008 | 1130004520 | IC | TC4030BF |
| IC2010 | 1110000330 | IC | M5218L |
| IC2011 | 1110000330 | IC | M5218L |
| IC2012 | 1110000330 | IC | M5218L |
| IC2013 | 1110000890 | IC | μPC1241H |

[IF UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|-------------------------------|
| Q2001 | 1530000100 | Transistor | 2SC2458-Y |
| Q2002 | 1520000230 | Transistor | 2SB909M Q |
| Q2003 | 1590000350 | Transistor | RN1204 |
| Q2005 | 1590000340 | Transistor | RN1202 |
| Q2006 | 1590000350 | Transistor | RN1204 |
| Q2007 | 1530000170 | Transistor | 2SC2878-A |
| Q2008 | 1510000080 | Transistor | 2SA1048-GR |
| Q2009 | 1590000360 | Transistor | RN2202 |
| Q2010 | 1590000280 | FET | 2SJ105-Y |
| Q2011 | 1590000350 | Transistor | RN1204 |
| Q2012 | 1590000350 | Transistor | RN1204 |
| Q2013 | 1590000350 | Transistor | RN1204 |
| D2001 | 1710000050 | Diode | 1SS53 |
| D2002 | 1710000350 | Diode | 1N4002 |
| D2005 | 1710000160 | Diode | 1SS133 |
| D2006 | 1710000160 | Diode | 1SS133 |
| D2007 | 1710000530 | Diode | S3V-10 |
| D2008 | 1710000160 | Diode | 1SS133 |
| D2009 | 1710000160 | Diode | 1SS133 |
| D2010 | 1710000160 | Diode | 1SS133 |
| D2011 | 1710000160 | Diode | 1SS133 |
| D2012 | 1710000160 | Diode | 1SS133 |
| D2013 | 1710000160 | Diode | 1SS133 |
| D2014 | 1710000160 | Diode | 1SS133 |
| D2015 | 1710000160 | Diode | 1SS133 |
| D2016 | 1710000160 | Diode | 1SS133 |
| D2017 | 1710000160 | Diode | 1SS133 |
| D2018 | 1710000160 | Diode | 1SS133 |
| D2019 | 1710000160 | Diode | 1SS133 |
| D2020 | 1710000160 | Diode | 1SS133 |
| D2021 | 1710000160 | Diode | 1SS133 |
| D2022 | 1710000160 | Diode | 1SS133 |
| D2023 | 1710000160 | Diode | 1SS133 |
| D2024 | 1710000160 | Diode | 1SS133 |
| D2025 | 1710000160 | Diode | 1SS133 |
| X2001 | 6050003350 | Crystal | RF-4A3 FAF NKD (9.270800M) |
| X2002 | 6050003660 | Crystal | CR-203 |
| L2001 | 6170000140 | Coil | LW-15 |
| L2002 | 6910000670 | Coil | BT01RN1-A61-001 |
| L2003 | 6180000900 | Coil | LAL 03NA 101K |
| L2004 | 6180000900 | Coil | LAL 03NA 101K |
| L2005 | 6180000900 | Coil | LAL 03NA 101K |
| L2006 | 6910000670 | Coil | BT01RN1-A61-001 |
| L2007 | 6910000670 | Coil | BT01RN1-A61-001 |
| R2001 | 7010003480 | Resistor | ELR20J 4.7 kΩ |
| R2002 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R2003 | 7010003550 | Resistor | ELR20J 15 kΩ |
| R2004 | 7010003600 | Resistor | ELR20J 33 kΩ |
| R2005 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R2006 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R2007 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R2008 | 7010001400 | Resistor | R25J 100 kΩ |
| R2009 | 7010003390 | Resistor | ELR20J 820 Ω |
| R2010 | 7010003490 | Resistor | ELR20J 5.6 kΩ |
| R2011 | 7010003540 | Resistor | ELR20J 12 kΩ |
| R2012 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R2013 | 7010004830 | Resistor | R50XJ 4.7 Ω |
| R2016 | 7010004030 | Resistor | R20J 47 Ω |
| R2017 | 7010004110 | Resistor | R20J 220 Ω |
| R2019 | 7010003320 | Resistor | ELR20J 220 Ω |
| R2020 | 7010003280 | Resistor | ELR20J 100 Ω |

(IF UNIT)

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|----------------|---------------------|
| R2021 | 7010004250 | Resistor | R20J 3.3 kΩ |
| R2022 | 7310000870 | Trimmer | RH1051D14J0PA (103) |
| R2023 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R2024 | 7010003650 | Resistor | ELR20J 82 kΩ |
| R2025 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R2026 | 7010003720 | Resistor | ELR20J 330 kΩ |
| R2027 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R2028 | 7010004150 | Resistor | R20J 470 Ω |
| R2029 | 7010003710 | Resistor | ELR20J 270 kΩ |
| R2030 | 7010003640 | Resistor | ELR20J 68 kΩ |
| R2031 | 7010004320 | Resistor | R20J 10 kΩ |
| R2032 | 7010003540 | Resistor | ELR20J 12 kΩ |
| R2033 | 7010004330 | Resistor | R20J 12 kΩ |
| R2034 | 7010003520 | Resistor | ELR20J 8.2 kΩ |
| R2035 | 7010003380 | Resistor | ELR20J 680 Ω |
| R2036 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R2037 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R2038 | 7010004230 | Resistor | R20J 2.2 kΩ |
| R2039 | 7010003490 | Resistor | ELR20J 5.6 kΩ |
| R2041 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R2042 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R2043 | 7010004390 | Resistor | R20J 33 kΩ |
| R2044 | 7010003600 | Resistor | ELR20J 33 kΩ |
| R2046 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R2047 | 7010003040 | Resistor | ELR20J 1 Ω |
| R2048 | 7010004190 | Resistor | R20J 1 kΩ |
| R2049 | 7010003100 | Resistor | ELR20J 3.3 Ω |
| R2050 | 7010003280 | Resistor | ELR20J 100 Ω |
| R2051 | 7010003740 | Resistor | ELR20J 470 kΩ |
| R2052 | 7010004450 | Resistor | R20J 100 kΩ |
| R2053 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R2054 | 7010003740 | Resistor | ELR20J 470 kΩ |
| R2055 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R2056 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R2057 | 7010004420 | Resistor | R20J 56 kΩ |
| R2058 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R2059 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R2060 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R2061 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R2062 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R2064 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R2065 | 7010003740 | Resistor | ELR20J 470 kΩ |
| R2066 | 7010003340 | Resistor | ELR20J 330 Ω |
| R2067 | 7010003340 | Resistor | ELR20J 330 Ω |
| R2068 | 7010003340 | Resistor | ELR20J 330 Ω |
| R2069 | 7010003340 | Resistor | ELR20J 330 Ω |
| R2070 | 7010003340 | Resistor | ELR20J 330 Ω |
| R2071 | 7010003340 | Resistor | ELR20J 330 Ω |
| R2072 | 7010003340 | Resistor | ELR20J 330 Ω |
| R2073 | 7010004130 | Resistor | R20J 330 Ω |
| R2074 | 7010004130 | Resistor | R20J 330 Ω |
| R2075 | 7010003340 | Resistor | ELR20J 330 Ω |
| R2077 | 7410000080 | Resistor Array | RMX- 4 473K |
| R2078 | 7410000290 | Resistor Array | RMX- 3 473K |
| R2079 | 7410000150 | Resistor Array | RMX- 6 473K |
| R2080 | 7410000220 | Resistor Array | RMX- 8 473K |
| R2081 | 7410000150 | Resistor Array | RMX- 6 473K |
| R2082 | 7010003550 | Resistor | ELR20J 15 kΩ |
| R2083 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R2084 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R2085 | 7010004110 | Resistor | R20J 220 Ω |
| R2086 | 7010004310 | Resistor | R20J 8.2 kΩ |
| R2087 | 7010004190 | Resistor | R20J 1 kΩ |
| R2088 | 7010003660 | Resistor | ELR20J 100 kΩ |
| C2001 | 4510002790 | Electrolytic | 16 SS 22 μF |
| C2002 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C2003 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C2005 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C2006 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C2008 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C2010 | 4510002790 | Electrolytic | 16 SS 22 μF |
| C2011 | 4510002950 | Electrolytic | 50 SS 2R2 μF |
| C2012 | 4510002940 | Electrolytic | 50 SS 1 μF |

(IF UNIT)

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|---------------|------------------------|
| C2013 | 4510002940 | Electrolytic | 50 SS 1 μF |
| C2014 | 4510002640 | Electrolytic | 25 SS 47 μF |
| C2015 | 4510002840 | Electrolytic | 25 SS 10 μF |
| C2016 | 4310000090 | Mylar | F2D 50V 333K |
| C2017 | 4310000020 | Mylar | F2D 50V 103K |
| C2018 | 4010000430 | Ceramic | DD109 SL 471J 50V |
| C2019 | 4510002790 | Electrolytic | 16 SS 22 μF |
| C2020 | 4510002840 | Electrolytic | 25 SS 10 μF |
| C2021 | 4040000440 | Barrier Layer | RAU 06SA 561K |
| C2022 | 4510002840 | Electrolytic | 25 SS 10 μF |
| C2023 | 4510003040 | Electrolytic | 16 SS 100 μF |
| C2024 | 4010000260 | Ceramic | DD104 SL 470J 50V |
| C2025 | 4010000260 | Ceramic | DD104 SL 470J 50V |
| C2026 | 4310000030 | Mylar | F2D 50V 104K |
| C2027 | 4510002380 | Electrolytic | 16 SS 470 μF (10X12.5) |
| C2028 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C2029 | 4510002380 | Electrolytic | 16 SS 470 μF (10X12.5) |
| C2030 | 4510003040 | Electrolytic | 16 SS 100 μF |
| C2031 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C2032 | 4310000120 | Mylar | F2D 50V 473K |
| C2033 | 4310000030 | Mylar | F2D 50V 104K |
| C2034 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C2035 | 4510002940 | Electrolytic | 50 SS 1 μF |
| C2036 | 4310000170 | Mylar | F2D 50V 682K |
| C2037 | 4010000320 | Ceramic | DD104 SL 820J 50V |
| C2038 | 4310000690 | Mylar | F2D 50V 152K |
| C2039 | 4310000170 | Mylar | F2D 50V 682K |
| C2040 | 4010000320 | Ceramic | DD104 SL 820J 50V |
| C2041 | 4310000690 | Mylar | F2D 50V 152K |
| C2042 | 4310000170 | Mylar | F2D 50V 682K |
| C2043 | 4010000320 | Ceramic | DD104 SL 820J 50V |
| C2044 | 4310000690 | Mylar | F2D 50V 152K |
| C2045 | 4510001740 | Electrolytic | 50 RBP 1 μF |
| C2046 | 4010000180 | Ceramic | DD104 SL 220J 50V |
| C2047 | 4010000180 | Ceramic | DD104 SL 220J 50V |
| C2048 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C2049 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C2050 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C2051 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C2052 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C2053 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C2054 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C2055 | 4510002790 | Electrolytic | 16 SS 22 μF |
| C2056 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C2057 | 4010000150 | Ceramic | DD104 SL 150J 50V |
| C2058 | 4010000150 | Ceramic | DD104 SL 150J 50V |
| C2059 | 4510002790 | Electrolytic | 16 SS 22 μF |
| C2060 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C2061 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C2062 | 4510002790 | Electrolytic | 16 SS 22 μF |
| C2063 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C2064 | 4510002790 | Electrolytic | 16 SS 22 μF |
| C2065 | 4510002830 | Electrolytic | 25 SS 4R7 μF |
| C2066 | 4510002790 | Electrolytic | 16 SS 22 μF |
| C2067 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C2068 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C2069 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C2070 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C2071 | 4510002820 | Electrolytic | 16 SS 1000 μF |
| RL2001 | 6330000720 | Relay | DS1-M-DC12V (AG2013) |
| EP2001 | 0910022493 | P.C. Board | B 2153C |

[FRONT UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|------------------|--------------------------|-------------------------------|----------------------------|
| R2091 | 7210000330 | Variable Resistor | RK1241212005A [PWR/VOL] |
| DS2001 | 5030000450 | LCD | LM-16X21A |
| SP2001 | 2510000440 | Speaker | 77F60N |
| EP2004 EP2006 | 0910022270 8210004741 | P.C. Board Membrane Switch | B 2158 C-03481A |

[CONNECT UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|---------------|------------------|
| C507 | 4510002640 | Electrolytic | 25 SS 47 μF |
| C508 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C509 | 4510002780 | Electrolytic | 16 SS 10 μF |
| C510 | 4510002730 | Electrolytic | 10 SS 100 μF |
| C511 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C512 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C513 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C514 | 4010000520 | Ceramic | DD108 B 472K 50V |
| RL501 | 6330000820 | Relay | AJK 3341 |
| EP501 | 0910022652 | P.C. Board | B 2081B |

[CONNECT UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-----------------|------------------|
| IC501 | 1130004400 | IC | TC74HC157AP |
| IC502 | 1180000440 | IC | LVC550C |
| IC503 | 1170000110 | IC | GP-1F01D |
| Q501 | 1590000350 | Transistor | RN1204 |
| Q502 | 1530000110 | Transistor | 2SC2458-GR |
| Q503 | 1530000110 | Transistor | 2SC2458-GR |
| Q504 | 1590000340 | Transistor | RN1202 |
| D502 | 1710000160 | Diode | 1SS133 |
| D503 | 1710000160 | Diode | 1SS133 |
| D504 | 1710000350 | Diode | 1N4002 |
| D505 | 1710000160 | Diode | 1SS133 |
| L501 | 6180000880 | Coil | LAL 03NA 100K |
| L502 | 6180000850 | Coil | LAL 03NA 4R7K |
| L504 | 6180000850 | Coil | LAL 03NA 4R7K |
| L505 | 6180000880 | Coil | LAL 03NA 100K |
| L506 | 6180000880 | Coil | LAL 03NA 100K |
| L507 | 6910000670 | Coil | BT01RN1-A61-001 |
| L508 | 6180001520 | Coil | FL 5H 100K |
| L509 | 6180000880 | Coil | LAL 03NA 100K |
| L510 | 6180001520 | Coil | FL 5H 100K |
| L511 | 6910000670 | Coil | BT01RN1-A61-001 |
| L512 | 6910000670 | Coil | BT01RN1-A61-001 |
| L513 | 6910000670 | Coil | BT01RN1-A61-001 |
| L514 | 6910000670 | Coil | BT01RN1-A61-001 |
| R501 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R502 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R503 | 7010004270 | Resistor | R20J 4.7 kΩ |
| R504 | 7010004660 | Resistor | R50XJ 15 Ω |
| R505 | 7010003480 | Resistor | ELR20J 4.7 kΩ |
| R506 | 7010004320 | Resistor | R20J 10 kΩ |
| R507 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R508 | 7010004110 | Resistor | R20J 220 Ω |
| R509 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R510 | 7010003240 | Resistor | ELR20J 47 Ω |
| R511 | 7010003360 | Resistor | ELR20J 470 Ω |
| R512 | 7010003360 | Resistor | ELR20J 470 Ω |
| R513 | 7010003360 | Resistor | ELR20J 470 Ω |
| C501 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C502 | 4530000030 | Capacitor Array | B5RC0124-32N |
| C503 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C504 | 4510002720 | Electrolytic | 10 SS 47 μF |
| C505 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C506 | 4010000520 | Ceramic | DD108 B 472K 50V |

[LOGIC-B UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|---------------------|
| IC401 | 1140001050 | IC | LC92018B-286/SC1105 |
| IC402 | 1110001460 | IC | μPC1555C |
| IC403 | 1110000330 | IC | M5218L |
| IC404 | 1110000330 | IC | M5218L |
| IC405 | 1130000080 | IC | TC4030BP |
| IC407 | 1130000950 | IC | S7116A |
| Q401 | 1510000080 | Transistor | 2SA1048-GR |
| Q402 | 1590000360 | Transistor | RN2202 |
| Q405 | 1530000050 | Transistor | 2SC1815-GR |
| X401 | 6050003660 | Crystal | CR-203 |
| X402 | 6060000060 | Crystal | CSA3.58MG18 |
| L401 | 6170000110 | Coil | LW-12A |
| L402 | 6180000900 | Coil | LAL 03NA 101K |
| R401 | 7010004110 | Resistor | R20J 220 Ω |
| R402 | 7010004190 | Resistor | R20J 1 kΩ |
| R404 | 7010004430 | Resistor | R20J 68 kΩ |
| R405 | 7010004230 | Resistor | R20J 2.2 kΩ |
| R406 | 7010003490 | Resistor | ELR20J 5.6 kΩ |
| R407 | 7010003280 | Resistor | ELR20J 100 Ω |
| R408 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R409 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R410 | 7010004390 | Resistor | R20J 33 kΩ |
| R411 | 7010003600 | Resistor | ELR20J 33 kΩ |
| R412 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R414 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R415 | 7010004320 | Resistor | R20J 10 kΩ |
| R417 | 7010004110 | Resistor | R20J 220 Ω |
| R418 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R419 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R420 | 7010004420 | Resistor | R20J 56 kΩ |
| R421 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R422 | 7010004420 | Resistor | R20J 56 kΩ |
| R423 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R424 | 7010003630 | Resistor | ELR20J 56 kΩ |
| R425 | 7010004420 | Resistor | R20J 56 kΩ |
| R426 | 7010004420 | Resistor | R20J 56 kΩ |
| R427 | 7010004530 | Resistor | R20J 470 kΩ |
| R428 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R429 | 7010004320 | Resistor | R20J 10 kΩ |
| R431 | 7010004030 | Resistor | R20J 47 Ω |
| R432 | 7010004410 | Resistor | R20J 47 kΩ |
| R433 | 7010004190 | Resistor | R20J 1 kΩ |
| R434 | 7010003660 | Resistor | ELR20J 100 kΩ |

[LOGIC-B UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|---------------|-------------------|
| R435 | 7010004480 | Resistor | R20J 180 kΩ |
| R436 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R437 | 7010004190 | Resistor | R20J 1 kΩ |
| R438 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R439 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R440 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R441 | 7010004150 | Resistor | R20J 470 Ω |
| | | | |
| C401 | 4010000150 | Ceramic | DD104 SL 150J 50V |
| C402 | 4010000150 | Ceramic | DD104 SL 150J 50V |
| C403 | 4510002740 | Electrolytic | 10 SS 220 μF |
| C404 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C406 | 4510002790 | Electrolytic | 16 SS 22 μF |
| C407 | 4510002790 | Electrolytic | 16 SS 22 μF |
| C408 | 4040000440 | Barrier Layer | RAU 06SA 561K |
| C409 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C410 | 4510002840 | Electrolytic | 25 SS 10 μF |
| C411 | 4510002740 | Electrolytic | 10 SS 220 μF |
| C412 | 4010000260 | Ceramic | DD104 SL 470J 50V |
| C413 | 4010000260 | Ceramic | DD104 SL 470J 50V |
| C414 | 4510001740 | Electrolytic | 50 RBP 1 μF |
| C415 | 4510002780 | Electrolytic | 16 SS 10 μF |
| C416 | 4510002790 | Electrolytic | 16 SS 22 μF |
| C417 | 4310000170 | Mylar | F2D 50V 682K |
| C418 | 4010000320 | Ceramic | DD104 SL 820J 50V |
| C419 | 4310000690 | Mylar | F2D 50V 152K |
| C420 | 4310000170 | Mylar | F2D 50V 682K |
| C421 | 4010000320 | Ceramic | DD104 SL 820J 50V |
| C422 | 4310000690 | Mylar | F2D 50V 152K |
| C423 | 4310000170 | Mylar | F2D 50V 682K |
| C424 | 4010000320 | Ceramic | DD104 SL 820J 50V |
| C425 | 4310000690 | Mylar | F2D 50V 152K |
| C426 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C427 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C429 | 4010000530 | Ceramic | DD112 B 103K 50V |
| C430 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C431 | 4510002780 | Electrolytic | 16 SS 10 μF |
| C432 | 4510002930 | Electrolytic | 50 SS R47 μF |
| C433 | 4510002940 | Electrolytic | 50 SS 1 μF |
| C434 | 4010000460 | Ceramic | DD104 B 471K 50V |
| C435 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C436 | 4010000120 | Ceramic | DD104 SL 100D 50V |
| C437 | 4010000120 | Ceramic | DD104 SL 100D 50V |
| C438 | 4510002720 | Electrolytic | 10 SS 47 μF |
| | | | |
| EP401 | 0910022503 | P.C. Board | B 2080C |

[LOGIC-A UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|----------------|-------------------------------|
| Q303 | 1530000100 | Transistor | 2SC2458-Y |
| Q304 | 1530000100 | Transistor | 2SC2458-Y |
| Q305 | 1590000350 | Transistor | RN1204 |
| Q306 | 1590000350 | Transistor | RN1204 |
| | | | |
| D301 | 1710000050 | Diode | 1SS53 |
| D302 | 1710000160 | Diode | 1SS133 |
| D303 | 1710000160 | Diode | 1SS133 |
| D304 | 1710000160 | Diode | 1SS133 |
| D305 | 1710000160 | Diode | 1SS133 |
| D310 | 1710000160 | Diode | 1SS133 |
| D311 | 1710000160 | Diode | 1SS133 |
| D312 | 1710000160 | Diode | 1SS133 |
| D313 | 1710000160 | Diode | 1SS133 |
| D314 | 1710000160 | Diode | 1SS133 |
| D315 | 1710000160 | Diode | 1SS133 |
| D316 | 1710000160 | Diode | 1SS133 |
| D317 | 1710000160 | Diode | 1SS133 |
| D318 | 1710000160 | Diode | 1SS133 |
| D319 | 1710000160 | Diode | 1SS133 |
| D320 | 1710000160 | Diode | 1SS133 |
| D321 | 1710000160 | Diode | 1SS133 |
| D322 | 1710000160 | Diode | 1SS133 |
| D323 | 1710000160 | Diode | 1SS133 |
| | | | |
| X301 | 6050003350 | Crystal | RF-4A3 FAF NKD (9.270800M) |
| | | | |
| L301 | 6910000600 | Ferrite Bead | FSOH050RN |
| L302 | 6910000670 | Coil | BT01RN1-A61-001 |
| L303 | 6910000670 | Coil | BT01RN1-A61-001 |
| L304 | 6180000990 | Coil | LAL 04NA 101K |
| L305 | 6180000990 | Coil | LAL 04NA 101K |
| L306 | 6180000990 | Coil | LAL 04NA 101K |
| L307 | 6180000990 | Coil | LAL 04NA 101K |
| L308 | 6180000990 | Coil | LAL 04NA 101K |
| L309 | 6180000990 | Coil | LAL 04NA 101K |
| L310 | 6180000990 | Coil | LAL 04NA 101K |
| L311 | 6180000990 | Coil | LAL 04NA 101K |
| L312 | 6910000670 | Coil | BT01RN1-A61-001 |
| L313 | 6180000900 | Coil | LAL 03NA 101K |
| L314 | 6180000900 | Coil | LAL 03NA 101K |
| L315 | 6180000900 | Coil | LAL 03NA 101K |
| L316 | 6910000670 | Coil | BT01RN1-A61-001 |
| L317 | 6910000670 | Coil | BT01RN1-A61-001 |
| | | | |
| R301 | 7010003280 | Resistor | ELR20J 100 Ω |
| R302 | 7010003280 | Resistor | ELR20J 100 Ω |
| R303 | 7010003280 | Resistor | ELR20J 100 Ω |
| R304 | 7010003280 | Resistor | ELR20J 100 Ω |
| R305 | 7010003280 | Resistor | ELR20J 100 Ω |
| R306 | 7010003280 | Resistor | ELR20J 100 Ω |
| R307 | 7010003280 | Resistor | ELR20J 100 Ω |
| R308 | 7010003280 | Resistor | ELR20J 100 Ω |
| R309 | 7010003280 | Resistor | ELR20J 100 Ω |
| R310 | 7010003160 | Resistor | ELR20J 10 Ω |
| R311 | 7010003160 | Resistor | ELR20J 10 Ω |
| R312 | 7010003360 | Resistor | ELR20J 470 Ω |
| R313 | 7010003320 | Resistor | ELR20J 220 Ω |
| R314 | 7010003360 | Resistor | ELR20J 470 Ω |
| R315 | 7010003360 | Resistor | ELR20J 470 Ω |
| R316 | 7010003360 | Resistor | ELR20J 470 Ω |
| R317 | 7010003360 | Resistor | ELR20J 470 Ω |
| R318 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R319 | 7010004270 | Resistor | R20J 4.7 kΩ |
| R320 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R321 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R322 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R323 | 7410000150 | Resistor Array | RMX- 6 473K |
| R324 | 7080001150 | Resistor | CRB25FX 2.2 kΩ |
| R325 | 7080000220 | Resistor | CRB25FX 1 kΩ |

[LOGIC-A UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|-----------------|
| IC301 | 1140000940 | IC | TMP82C255AN-2-Z |
| IC302 | 1130002640 | IC | μPD71055C |
| IC303 | 1130003770 | IC | HM6264ALP15LL |
| IC304 | 1140001160 | IC | SC1119 |
| IC305 | 1140001220 | IC | HD64180R1P6 |
| IC306 | 1130004550 | IC | SC1118 |
| IC307 | 1120000970 | IC | M54562P |
| IC308 | 1130003860 | IC | MB4052M-G |
| IC309 | 1130004460 | IC | TC74HC42AP |
| IC310 | 1180000340 | IC | TA78005AP |
| IC311 | 1130002551 | IC | TC74HC32AP |
| IC312 | 1130004270 | IC | TC74HC00AP |
| IC313 | 1110001680 | IC | S-8054ALB |
| | | | |
| Q301 | 1590000360 | Transistor | RN2202 |
| Q302 | 1590000350 | Transistor | RN1204 |

[LOGIC-A UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-----------------|-------------------|
| R326 | 7080001160 | Resistor | CRB25FX 12 kΩ |
| R327 | 7080000750 | Resistor | CRB25FX 8.2 kΩ |
| R328 | 7080000260 | Resistor | CRB25FX 4.7 kΩ |
| R329 | 7080000250 | Resistor | CRB25FX 3.3 kΩ |
| R330 | 7080001140 | Resistor | CRB25FX 1.5 kΩ |
| R331 | 7080001130 | Resistor | CRB25FX 330 Ω |
| R332 | 7080000260 | Resistor | CRB25FX 4.7 kΩ |
| R333 | 7010004190 | Resistor | R20J 1 kΩ |
| R334 | 7010004190 | Resistor | R20J 1 kΩ |
| R335 | 7010004190 | Resistor | R20J 1 kΩ |
| R336 | 7010004190 | Resistor | R20J 1 kΩ |
| R337 | 7010004190 | Resistor | R20J 1 kΩ |
| R338 | 7010004190 | Resistor | R20J 1 kΩ |
| R339 | 7010004190 | Resistor | R20J 1 kΩ |
| R340 | 7010004190 | Resistor | R20J 1 kΩ |
| R341 | 7010003740 | Resistor | ELR20J 470 kΩ |
| R342 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R346 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R347 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R348 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R349 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R350 | 7010003360 | Resistor | ELR20J 470 Ω |
| R351 | 7010003360 | Resistor | ELR20J 470 Ω |
| R352 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R353 | 7010004320 | Resistor | R20J 10 kΩ |
| R354 | 7010004320 | Resistor | R20J 10 kΩ |
| R355 | 7010003480 | Resistor | ELR20J 4.7 kΩ |
| R356 | 7010004210 | Resistor | R20J 1.5 kΩ |
| R357 | 7010004830 | Resistor | R50XJ 4.7 Ω |
| R358 | 7010003160 | Resistor | ELR20J 10 Ω |
| R359 | 7010003160 | Resistor | ELR20J 10 Ω |
| R360 | 7010003280 | Resistor | ELR20J 100 Ω |
| R361 | 7010003280 | Resistor | ELR20J 100 Ω |
| R362 | 7010003280 | Resistor | ELR20J 100 Ω |
| R363 | 7010003320 | Resistor | ELR20J 220 Ω |
| R364 | 7010003320 | Resistor | ELR20J 220 Ω |
| R373 | 7010004320 | Resistor | R20J 10 kΩ |
| R374 | 7010003360 | Resistor | ELR20J 470 Ω |
| R375 | 7010003360 | Resistor | ELR20J 470 Ω |
| R376 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R377 | 7010003480 | Resistor | ELR20J 4.7 kΩ |
| R378 | 7010003480 | Resistor | ELR20J 4.7 kΩ |
| C301 | 4530000190 | Capacitor Array | B7ZC0716-32N |
| C302 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C303 | 4530000270 | Capacitor Array | B8XC0114-32N |
| C304 | 4530000190 | Capacitor Array | B7ZC0716-32N |
| C305 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C306 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C307 | 4510002870 | Electrolytic | 25 SS 100 μF |
| C308 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C309 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C310 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C311 | 4530000390 | Capacitor Array | B9HC0117-33N |
| C312 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C313 | 4530000390 | Capacitor Array | B9HC0117-33N |
| C314 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C315 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C316 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C317 | 4530000040 | Capacitor Array | B5RC0125-32N |
| C318 | 4310000060 | Mylar | F2D 50V 223K |
| C319 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C320 | 4010000260 | Ceramic | DD104 SL 470J 50V |
| C321 | 4010000150 | Ceramic | DD104 SL 150J 50V |
| C322 | 4010000150 | Ceramic | DD104 SL 150J 50V |
| C323 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C324 | 4510002640 | Electrolytic | 25 SS 47 μF |
| C325 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C326 | 4510002730 | Electrolytic | 10 SS 100 μF |
| C327 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C328 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C329 | 4530000270 | Capacitor Array | B8XC0114-32N |
| C330 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C331 | 4040000250 | Barrier Layer | UAT 08X 473M |

[LOGIC-A UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-----------------|------------------|
| C332 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C333 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C334 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C335 | 4530000030 | Capacitor Array | B5RC0124-32N |
| C336 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C337 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C338 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C339 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C340 | 4020000250 | Cylinder | UP125 X 472M |
| SO301 | 2610000200 | Socket | ICC05-028 360T |
| EP301 | 0910021513 | P.C. Board | B 2079C |

[PLL UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|------------|
| IC1 | 1120001620 | IC | M74ALS74AP |
| IC2 | 1130002960 | IC | TC9181P |
| IC3 | 1110001320 | IC | μPC1037HA |
| IC4 | 1110001320 | IC | μPC1037HA |
| IC5 | 1130002960 | IC | TC9181P |
| IC6 | 1130004120 | IC | TD6102P |
| IC7 | 1110001320 | IC | μPC1037HA |
| IC8 | 1180000090 | IC | NJM78M08A |
| IC9 | 1180000270 | IC | NJM78M05A |
| Q1 | 1530000150 | Transistor | 2SC2668-O |
| Q2 | 1530000150 | Transistor | 2SC2668-O |
| Q3 | 1590000350 | Transistor | RN1204 |
| Q4 | 1530000150 | Transistor | 2SC2668-O |
| Q5 | 1530000110 | Transistor | 2SC2458-GR |
| Q6 | 1530000150 | Transistor | 2SC2668-O |
| Q7 | 1590000370 | Transistor | RN2204 |
| Q8 | 1530000150 | Transistor | 2SC2668-O |
| Q9 | 1560000090 | FET | 2SK192A-GR |
| Q10 | 1530000150 | Transistor | 2SC2668-O |
| Q11 | 1590000350 | Transistor | RN1204 |
| Q12 | 1530000940 | Transistor | 2SC1571G |
| Q13 | 1530000940 | Transistor | 2SC1571G |
| Q14 | 1530000150 | Transistor | 2SC2668-O |
| Q15 | 1530000150 | Transistor | 2SC2668-O |
| Q16 | 1560000090 | FET | 2SK192A-GR |
| Q17 | 1560000090 | FET | 2SK192A-GR |
| Q18 | 1560000090 | FET | 2SK192A-GR |
| Q19 | 1560000090 | FET | 2SK192A-GR |
| Q20 | 1590000340 | Transistor | RN1202 |
| Q21 | 1590000340 | Transistor | RN1202 |
| Q22 | 1590000340 | Transistor | RN1202 |
| Q23 | 1590000340 | Transistor | RN1202 |
| Q24 | 1530000150 | Transistor | 2SC2668-O |
| Q25 | 1530000150 | Transistor | 2SC2668-O |
| Q26 | 1590000350 | Transistor | RN1204 |
| Q27 | 1530000150 | Transistor | 2SC2668-O |
| Q28 | 1530000150 | Transistor | 2SC2668-O |
| Q29 | 1530000150 | Transistor | 2SC2668-O |
| Q30 | 1590000350 | Transistor | RN1204 |
| Q31 | 1590000350 | Transistor | RN1204 |
| D1 | 1730000100 | Zener | RD5.1E B2 |
| D2 | 1720000050 | Varicap | 1SV50E |
| D3 | 1720000050 | Varicap | 1SV50E |
| D4 | 1730000100 | Zener | RD5.1E B2 |
| D5 | 1720000120 | Varicap | FC52M |
| D6 | 1720000050 | Varicap | 1SV50E |

[PLL UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|-----------------|
| D7 | 1720000050 | Varicap | 1SV50E |
| D8 | 1720000050 | Varicap | 1SV50E |
| D9 | 1710000050 | Diode | 1SS53 |
| D10 | 1710000050 | Diode | 1SS53 |
| D11 | 1710000050 | Diode | 1SS53 |
| D12 | 1710000050 | Diode | 1SS53 |
| D13 | 1710000160 | Diode | 1SS133 |
| D14 | 1710000160 | Diode | 1SS133 |
| D15 | 1710000160 | Diode | 1SS133 |
| D16 | 1710000160 | Diode | 1SS133 |
| D17 | 1710000050 | Diode | 1SS53 |
| D18 | 1710000050 | Diode | 1SS53 |
| D19 | 1710000050 | Diode | 1SS53 |
| D20 | 1710000050 | Diode | 1SS53 |
| X1 | 6050005770 | Crystal | CR-282 |
| X2 | 6050003230 | Crystal | CR-180 |
| L1 | 6910000670 | Coil | BT01RN1-A61-001 |
| L2 | 6910000670 | Coil | BT01RN1-A61-001 |
| L3 | 6170000230 | Coil | LW-25 |
| L4 | 6150000760 | Coil | LS-94 |
| L5 | 6150000990 | Coil | LS-114 |
| L6 | 6150000990 | Coil | LS-114 |
| L7 | 6180000900 | Coil | LAL 03NA 101K |
| L8 | 6180000830 | Coil | LAL 03NA 3R3K |
| L9 | 6150000990 | Coil | LS-114 |
| L10 | 6150000990 | Coil | LS-114 |
| L11 | 6180001500 | Coil | LAL 03NA 390K |
| L12 | 6180001500 | Coil | LAL 03NA 390K |
| L13 | 6180001480 | Coil | LAL 03NA 120K |
| L14 | 6180001480 | Coil | LAL 03NA 120K |
| L15 | 6180001480 | Coil | LAL 03NA 120K |
| L16 | 6180000990 | Coil | LAL 04NA 101K |
| L17 | 6140000580 | Coil | LR-79 |
| L18 | 6150001820 | Coil | LS-204 |
| L19 | 6180000850 | Coil | LAL 03NA 4R7K |
| L20 | 6180000900 | Coil | LAL 03NA 101K |
| L21 | 6180000900 | Coil | LAL 03NA 101K |
| L22 | 6140000580 | Coil | LR-79 |
| L23 | 6130000990 | Coil | LB-135 |
| L24 | 6140000580 | Coil | LR-79 |
| L25 | 6130000990 | Coil | LB-135 |
| L26 | 6140000580 | Coil | LR-79 |
| L27 | 6130000990 | Coil | LB-135 |
| L28 | 6140000580 | Coil | LR-79 |
| L29 | 6130000990 | Coil | LB-135 |
| L30 | 6170000230 | Coil | LW-25 |
| L31 | 6170000230 | Coil | LW-25 |
| L32 | 6170000230 | Coil | LW-25 |
| L33 | 6170000230 | Coil | LW-25 |
| L35 | 6180000740 | Coil | LAL 03NA R56M |
| L36 | 6180000700 | Coil | LAL 03NA R27M |
| L37 | 6180000710 | Coil | LAL 03NA R33M |
| L38 | 6910000670 | Coil | BT01RN1-A61-001 |
| L39 | 6910000670 | Coil | BT01RN1-A61-001 |
| L40 | 6910000670 | Coil | BT01RN1-A61-001 |
| L41 | 6180000900 | Coil | LAL 03NA 101K |
| L42 | 6180000690 | Coil | LAL 03NA R22M |
| L43 | 6180000900 | Coil | LAL 03NA 101K |
| L44 | 6180000690 | Coil | LAL 03NA R22M |
| L45 | 6180000750 | Coil | LAL 03NA R68M |
| L46 | 6180000730 | Coil | LAL 03NA R47M |
| L47 | 6180000720 | Coil | LAL 03NA R39M |
| L48 | 6180000690 | Coil | LAL 03NA R22M |
| L49 | 6180000710 | Coil | LAL 03NA R33M |
| L50 | 6180000710 | Coil | LAL 03NA R33M |
| L51 | 6180000880 | Coil | LAL 03NA 100K |
| R1 | 7010004110 | Resistor | R20J 220 Ω |
| R2 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R3 | 7010003480 | Resistor | ELR20J 4.7 kΩ |

[PLL UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|----------------|---------------|
| R4 | 7010004150 | Resistor | R20J 470 Ω |
| R5 | 7010004030 | Resistor | R20J 47 Ω |
| R6 | 7010003200 | Resistor | ELR20J 22 Ω |
| R7 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R8 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R9 | 7010003320 | Resistor | ELR20J 220 Ω |
| R10 | 7010004070 | Resistor | R20J 100 Ω |
| R11 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R12 | 7010003240 | Resistor | ELR20J 47 Ω |
| R13 | 7010003550 | Resistor | ELR20J 15 kΩ |
| R14 | 7010004190 | Resistor | R20J 1 kΩ |
| R15 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R16 | 7010003390 | Resistor | ELR20J 820 Ω |
| R17 | 7010003990 | Resistor | R20J 22 Ω |
| R18 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R19 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R20 | 7010003320 | Resistor | ELR20J 220 Ω |
| R21 | 7010004070 | Resistor | R20J 100 Ω |
| R22 | 7010003420 | Resistor | ELR20J 1.5 kΩ |
| R23 | 7010004190 | Resistor | R20J 1 kΩ |
| R24 | 7010001150 | Resistor | R25J 1 kΩ |
| R25 | 7010004190 | Resistor | R20J 1 kΩ |
| R26 | 7010004090 | Resistor | R20J 150 Ω |
| R27 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R28 | 7010003320 | Resistor | ELR20J 220 Ω |
| R29 | 7010004090 | Resistor | R20J 150 Ω |
| R30 | 7010003280 | Resistor | ELR20J 100 Ω |
| R31 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R32 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R33 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R34 | 7010004370 | Resistor | R20J 22 kΩ |
| R35 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R37 | 7010001280 | Resistor | R25J 10 kΩ |
| R38 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R39 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R40 | 7010001230 | Resistor | R25J 4.7 kΩ |
| R41 | 7010001020 | Resistor | R25J 82 Ω |
| R42 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R43 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R44 | 7010003300 | Resistor | ELR20J 150 Ω |
| R45 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R46 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R47 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R48 | 7010004410 | Resistor | R20J 47 kΩ |
| R49 | 7410000080 | Resistor Array | RMX- 4 473K |
| R50 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R51 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R52 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R53 | 7010004320 | Resistor | R20J 10 kΩ |
| R54 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R55 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R56 | 7010001210 | Resistor | R25J 3.3 kΩ |
| R57 | 7010003410 | Resistor | ELR20J 1.2 kΩ |
| R58 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R59 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R60 | 7010001190 | Resistor | R25J 2.2 kΩ |
| R61 | 7010003320 | Resistor | ELR20J 220 Ω |
| R62 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R63 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R64 | 7010003480 | Resistor | ELR20J 4.7 kΩ |
| R65 | 7010004200 | Resistor | R20J 1.2 kΩ |
| R66 | 7010004370 | Resistor | R20J 22 kΩ |
| R67 | 7010003490 | Resistor | ELR20J 5.6 kΩ |
| R68 | 7010003320 | Resistor | ELR20J 220 Ω |
| R69 | 7010004100 | Resistor | R20J 180 Ω |
| R70 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R71 | 7010003680 | Resistor | ELR20J 150 kΩ |
| R72 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R73 | 7010004470 | Resistor | R20J 150 kΩ |
| R74 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R75 | 7010003680 | Resistor | ELR20J 150 kΩ |
| R76 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R77 | 7010003680 | Resistor | ELR20J 150 kΩ |
| R78 | 7010003300 | Resistor | ELR20J 150 Ω |
| R79 | 7010003460 | Resistor | ELR20J 3.3 kΩ |

[PLL UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|--------------|-------------------|
| R80 | 7010003300 | Resistor | ELR20J 150 Ω |
| R81 | 7010004250 | Resistor | R20J 3.3 kΩ |
| R82 | 7010003300 | Resistor | ELR20J 150 Ω |
| R83 | 7010003460 | Resistor | ELR20J 3.3 kΩ |
| R84 | 7010003300 | Resistor | ELR20J 150 Ω |
| R85 | 7010004250 | Resistor | R20J 3.3 kΩ |
| R86 | 7010004010 | Resistor | R20J 33 Ω |
| R87 | 7010003480 | Resistor | ELR20J 4.7 kΩ |
| R88 | 7010004110 | Resistor | R20J 220 Ω |
| R89 | 7010003340 | Resistor | ELR20J 330 Ω |
| R90 | 7010003280 | Resistor | ELR20J 100 Ω |
| R91 | 7010003990 | Resistor | R20J 22 Ω |
| R92 | 7010003320 | Resistor | ELR20J 220 Ω |
| R93 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R94 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R95 | 7010003360 | Resistor | ELR20J 470 Ω |
| R96 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R97 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R98 | 7010004070 | Resistor | R20J 100 Ω |
| R99 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R100 | 7010003320 | Resistor | ELR20J 220 Ω |
| R101 | 7010004030 | Resistor | R20J 47 Ω |
| R102 | 7010003320 | Resistor | ELR20J 220 Ω |
| R103 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R104 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R105 | 7010003360 | Resistor | ELR20J 470 Ω |
| R106 | 7010004070 | Resistor | R20J 100 Ω |
| R107 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R109 | 7010001030 | Resistor | R25J 100 Ω |
| R111 | 7010004110 | Resistor | R20J 220 Ω |
| R112 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R113 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R114 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R115 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R116 | 7010004070 | Resistor | R20J 100 Ω |
| R117 | 7010004070 | Resistor | R20J 100 Ω |
| R118 | 7010003280 | Resistor | ELR20J 100 Ω |
| R119 | 7010004070 | Resistor | R20J 100 Ω |
| R120 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R121 | 7010004320 | Resistor | R20J 10 kΩ |
| R122 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R123 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R124 | 7010003320 | Resistor | ELR20J 220 Ω |
| R125 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R126 | 7010003320 | Resistor | ELR20J 220 Ω |
| R127 | 7010003320 | Resistor | ELR20J 220 Ω |
| R128 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R129 | 7010004230 | Resistor | R20J 2.2 kΩ |
| R130 | 7010003200 | Resistor | ELR20J 22 Ω |
| R131 | 7010004230 | Resistor | R20J 2.2 kΩ |
| R132 | 7010003200 | Resistor | ELR20J 22 Ω |
| R133 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R134 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R135 | 7010003400 | Resistor | ELR20J 1 kΩ |
| C1 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C2 | 4510001910 | Electrolytic | 25 MS7 10 μF |
| C3 | 4010000860 | Ceramic | DD106 CH 470J 50V |
| C4 | 4010003100 | Ceramic | DD106 TH 820J 50V |
| C5 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C6 | 4010003100 | Ceramic | DD106 TH 820J 50V |
| C7 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C8 | 4510003730 | Electrolytic | 10 MS7 22 μF |
| C9 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C10 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C11 | 4010000150 | Ceramic | DD104 SL 150J 50V |
| C12 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C13 | 4010003770 | Ceramic | DD06 SL 0R5C 500V |
| C14 | 4010000120 | Ceramic | DD104 SL 100D 50V |
| C15 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C16 | 4010000260 | Ceramic | DD104 SL 470J 50V |
| C17 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C18 | 4510001100 | Electrolytic | 16 MS7 10 μF |
| C19 | 4010000340 | Ceramic | DD105 SL 121J 50V |

[PLL UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|---------------|-------------------|
| C20 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C21 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C22 | 4010000150 | Ceramic | DD104 SL 150J 50V |
| C23 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C24 | 4010000010 | Ceramic | DD104 SL 0R5C 50V |
| C25 | 4010000120 | Ceramic | DD104 SL 100D 50V |
| C26 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C27 | 4010000280 | Ceramic | DD104 SL 560J 50V |
| C28 | 4010000410 | Ceramic | DD107 SL 331J 50V |
| C29 | 4010000430 | Ceramic | DD109 SL 471J 50V |
| C30 | 4010000410 | Ceramic | DD107 SL 331J 50V |
| C31 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C32 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C33 | 4040000350 | Barrier Layer | UAT 05V 472K |
| C34 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C35 | 4510001100 | Electrolytic | 16 MS7 10 μF |
| C36 | 4010000280 | Ceramic | DD104 SL 560J 50V |
| C37 | 4010000280 | Ceramic | DD104 SL 560J 50V |
| C38 | 4010000330 | Ceramic | DD105 SL 101J 50V |
| C39 | 4010000340 | Ceramic | DD105 SL 121J 50V |
| C40 | 4010000330 | Ceramic | DD105 SL 101J 50V |
| C41 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C42 | 4510001100 | Electrolytic | 16 MS7 10 μF |
| C43 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C44 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C45 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C46 | 4020000250 | Cylinder | UP125 X 472M |
| C47 | 4010000260 | Ceramic | DD104 SL 470J 50V |
| C48 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C49 | 4010000200 | Ceramic | DD104 SL 270J 50V |
| C51 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C52 | 4510003700 | Electrolytic | 25 MS7 22 μF |
| C53 | 4550000390 | Tantalum | DN 1V R22M |
| C54 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C55 | 4040000390 | Barrier Layer | UAT 06V 103K |
| C56 | 4010000770 | Ceramic | DD104 CH 200J 50V |
| C57 | 4010000640 | Ceramic | DD104 CH 040C 50V |
| C58 | 4010000900 | Ceramic | DD107 CH 680J 50V |
| C59 | 4010000870 | Ceramic | DD106 CH 510J 50V |
| C60 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C61 | 4510002840 | Electrolytic | 25 SS 10 μF |
| C62 | 4010000720 | Ceramic | DD104 CH 120J 50V |
| C63 | 4010000780 | Ceramic | DD104 CH 220J 50V |
| C64 | 4010000600 | Ceramic | DD104 CK 010C 50V |
| C65 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C66 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C67 | 4010000260 | Ceramic | DD104 SL 470J 50V |
| C68 | 4010000260 | Ceramic | DD104 SL 470J 50V |
| C69 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C70 | 4510001910 | Electrolytic | 25 MS7 10 μF |
| C71 | 4040000350 | Barrier Layer | UAT 05V 472K |
| C72 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C73 | 4510001910 | Electrolytic | 25 MS7 10 μF |
| C74 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C75 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C76 | 4510001110 | Electrolytic | 16 MS7 47 μF |
| C77 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C78 | 4550002310 | Tantalum | DN 1E 1R5M |
| C79 | 4550002310 | Tantalum | DN 1E 1R5M |
| C80 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C81 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C82 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C83 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C84 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C85 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C86 | 4510003730 | Electrolytic | 10 MS7 22 μF |
| C87 | 4010000880 | Ceramic | DD106 CH 560J 50V |
| C88 | 4010000790 | Ceramic | DD104 CH 240J 50V |
| C89 | 4610001130 | Trimmer | CVSSA1001 |
| C90 | 4010000880 | Ceramic | DD106 CH 560J 50V |
| C91 | 4010000720 | Ceramic | DD104 CH 120J 50V |
| C92 | 4010000720 | Ceramic | DD104 CH 120J 50V |
| C93 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C94 | 4010000020 | Ceramic | DD104 SL 010C 50V |
| C95 | 4010000520 | Ceramic | DD108 B 472K 50V |

[PLL UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION |
|----------|------------|----------------------------|
| C96 | 4010000880 | Ceramic DD106 CH 560J 50V |
| C97 | 4010000740 | Ceramic DD104 CH 150J 50V |
| C98 | 4610001130 | Trimmer CVSSA1001 |
| C99 | 4010000860 | Ceramic DD106 CH 470J 50V |
| C100 | 4010000720 | Ceramic DD104 CH 120J 50V |
| C101 | 4010000720 | Ceramic DD104 CH 120J 50V |
| C102 | 4010000520 | Ceramic DD108 B 472K 50V |
| C103 | 4010000020 | Ceramic DD104 SL 010C 50V |
| C104 | 4010000520 | Ceramic DD108 B 472K 50V |
| C105 | 4010000860 | Ceramic DD106 CH 470J 50V |
| C106 | 4010000700 | Ceramic DD104 CH 100D 50V |
| C107 | 4610001000 | Trimmer CVSSA0701 |
| C108 | 4010000860 | Ceramic DD106 CH 470J 50V |
| C109 | 4010000720 | Ceramic DD104 CH 120J 50V |
| C110 | 4010000720 | Ceramic DD104 CH 120J 50V |
| C111 | 4010000520 | Ceramic DD108 B 472K 50V |
| C112 | 4010000020 | Ceramic DD104 SL 010C 50V |
| C113 | 4010000520 | Ceramic DD108 B 472K 50V |
| C114 | 4010000840 | Ceramic DD105 CH 390J 50V |
| C115 | 4010000670 | Ceramic DD104 CH 070D 50V |
| C116 | 4610001000 | Trimmer CVSSA0701 |
| C117 | 4010000820 | Ceramic DD105 CH 330J 50V |
| C118 | 4010000720 | Ceramic DD104 CH 120J 50V |
| C119 | 4010000650 | Ceramic DD104 CH 050C 50V |
| C120 | 4010000520 | Ceramic DD108 B 472K 50V |
| C121 | 4010000020 | Ceramic DD104 SL 010C 50V |
| C122 | 4010000520 | Ceramic DD108 B 472K 50V |
| C123 | 4010000500 | Ceramic DD104 B 102K 50V |
| C124 | 4010000500 | Ceramic DD104 B 102K 50V |
| C125 | 4010000500 | Ceramic DD104 B 102K 50V |
| C126 | 4010000500 | Ceramic DD104 B 102K 50V |
| C127 | 4010000520 | Ceramic DD108 B 472K 50V |
| C128 | 4010000500 | Ceramic DD104 B 102K 50V |
| C129 | 4010000500 | Ceramic DD104 B 102K 50V |
| C130 | 4010000520 | Ceramic DD108 B 472K 50V |
| C131 | 4010000520 | Ceramic DD108 B 472K 50V |
| C132 | 4010000520 | Ceramic DD108 B 472K 50V |
| C133 | 4010000260 | Ceramic DD104 SL 470J 50V |
| C134 | 4010000520 | Ceramic DD108 B 472K 50V |
| C135 | 4010000500 | Ceramic DD104 B 102K 50V |
| C136 | 4010000520 | Ceramic DD108 B 472K 50V |
| C137 | 4010000520 | Ceramic DD108 B 472K 50V |
| C138 | 4010000200 | Ceramic DD104 SL 270J 50V |
| C139 | 4010000260 | Ceramic DD104 SL 470J 50V |
| C140 | 4010000100 | Ceramic DD104 SL 080D 50V |
| C141 | 4010000070 | Ceramic DD104 SL 050C 50V |
| C142 | 4010000050 | Ceramic DD104 SL 030C 50V |
| C143 | 4010000140 | Ceramic DD104 SL 120J 50V |
| C144 | 4010000500 | Ceramic DD104 B 102K 50V |
| C145 | 4010000520 | Ceramic DD108 B 472K 50V |
| C146 | 4510001100 | Electrolytic 16 MS7 10 µF |
| C147 | 4010000520 | Ceramic DD108 B 472K 50V |
| C148 | 4040000250 | Barrier Layer UAT 08X 473M |
| C149 | 4010000520 | Ceramic DD108 B 472K 50V |
| C150 | 4010000500 | Ceramic DD104 B 102K 50V |
| C151 | 4010000520 | Ceramic DD108 B 472K 50V |
| C152 | 4510001110 | Electrolytic 16 MS7 47 µF |
| C153 | 4010000520 | Ceramic DD108 B 472K 50V |
| C154 | 4510001910 | Electrolytic 25 MS7 10 µF |
| C155 | 4010000520 | Ceramic DD108 B 472K 50V |
| C156 | 4510002640 | Electrolytic 25 SS 47 µF |
| C157 | 4010000520 | Ceramic DD108 B 472K 50V |
| C158 | 4510001910 | Electrolytic 25 MS7 10 µF |
| C159 | 4010000500 | Ceramic DD104 B 102K 50V |
| C160 | 4010000500 | Ceramic DD104 B 102K 50V |
| C161 | 4040000250 | Barrier Layer UAT 08X 473M |
| C162 | 4040000250 | Barrier Layer UAT 08X 473M |
| C163 | 4040000250 | Barrier Layer UAT 08X 473M |
| C164 | 4010000340 | Ceramic DD105 SL 121J 50V |
| C165 | 4010000170 | Ceramic DD104 SL 200J 50V |
| C166 | 4010000340 | Ceramic DD105 SL 121J 50V |
| C167 | 4010000360 | Ceramic DD106 SL 181J 50V |
| C168 | 4010000500 | Ceramic DD104 B 102K 50V |
| C169 | 4010000360 | Ceramic DD106 SL 181J 50V |
| C170 | 4010000520 | Ceramic DD108 B 472K 50V |

[PLL UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION |
|----------|------------|----------------------------|
| C171 | 4010000390 | Ceramic DD107 SL 271J 50V |
| C172 | 4010000180 | Ceramic DD104 SL 220J 50V |
| C173 | 4010000420 | Ceramic DD108 SL 391J 50V |
| C174 | 4010000300 | Ceramic DD104 SL 680J 50V |
| C175 | 4010000380 | Ceramic DD107 SL 221J 50V |
| C176 | 4040000250 | Barrier Layer UAT 08X 473M |
| C177 | 4040000250 | Barrier Layer UAT 08X 473M |
| C178 | 4010000320 | Ceramic DD104 SL 820J 50V |
| C179 | 4010000180 | Ceramic DD104 SL 220J 50V |
| C180 | 4010000350 | Ceramic DD106 SL 151J 50V |
| C181 | 4010000140 | Ceramic DD104 SL 120J 50V |
| C182 | 4010000360 | Ceramic DD106 SL 181J 50V |
| C183 | 4010000080 | Ceramic DD104 SL 060D 50V |
| C184 | 4010000330 | Ceramic DD105 SL 101J 50V |
| C185 | 4040000250 | Barrier Layer UAT 08X 473M |
| C186 | 4010000520 | Ceramic DD108 B 472K 50V |
| C187 | 4040000250 | Barrier Layer UAT 08X 473M |
| C188 | 4010000500 | Ceramic DD104 B 102K 50V |
| C189 | 4010000460 | Ceramic DD104 B 471K 50V |
| C190 | 4010000520 | Ceramic DD108 B 472K 50V |
| C191 | 4510001910 | Electrolytic 25 MS7 10 µF |
| C192 | 4010000500 | Ceramic DD104 B 102K 50V |
| C193 | 4010000500 | Ceramic DD104 B 102K 50V |
| EP1 | 0910022532 | P.C. Board B 2076B |

[DDS UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION |
|----------|------------|---------------------------------|
| IC201 | 1140000500 | IC SC1051 |
| IC202 | 1130002600 | IC SC1052 |
| IC203 | 1130002610 | IC SC1053 |
| IC204 | 1130002461 | IC TC74HCT374AF |
| IC205 | 1130002461 | IC TC74HCT374AF |
| L201 | 6200000040 | Coil LQN 5N 331K |
| L202 | 6200000040 | Coil LQN 5N 331K |
| L203 | 6200000040 | Coil LQN 5N 331K |
| R203 | 7030000420 | Resistor MCR10EZHZ 2.2 kΩ (222) |
| R204 | 7410000320 | Resistor Array GF 5096 |
| R205 | 7030000500 | Resistor MCR10EZHZ 10 kΩ (103) |
| R206 | 7030000500 | Resistor MCR10EZHZ 10 kΩ (103) |
| R207 | 7030000500 | Resistor MCR10EZHZ 10 kΩ (103) |
| C203 | 4030001150 | Ceramic GRM40 F 104Z 25PT |
| C207 | 4030000720 | Ceramic GRM40 SL 680J 50PT |
| C208 | 4030000560 | Ceramic GRM40 SL 020C 50PT |
| C209 | 4030000750 | Ceramic GRM40 SL 121J 50PT |
| C210 | 4030000610 | Ceramic GRM40 SL 070D 50PT |
| C211 | 4030000750 | Ceramic GRM40 SL 121J 50PT |
| C212 | 4030000640 | Ceramic GRM40 SL 120J 50PT |
| C213 | 4030000720 | Ceramic GRM40 SL 680J 50PT |
| C214 | 4030001150 | Ceramic GRM40 F 104Z 25PT |
| C215 | 4030001150 | Ceramic GRM40 F 104Z 25PT |
| C216 | 4030001150 | Ceramic GRM40 F 104Z 25PT |
| C217 | 4030001150 | Ceramic GRM40 F 104Z 25PT |
| C219 | 4030001100 | Ceramic GRM40 B 102K 50PT |
| C220 | 4030001100 | Ceramic GRM40 B 102K 50PT |
| EP201 | 0910022511 | P.C. Board B 2203A |

[ANT SW UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|---------------|-------------------|
| Q921 | 1530000110 | Transistor | 2SC2458-GR |
| Q922 | 1540000070 | Transistor | 2SD468C |
| Q923 | 1510000220 | Transistor | 2SA1345 |
| Q924 | 1520000060 | Transistor | 2SB562C |
| Q925 | 1530000970 | Transistor | 2SC3402 |
| | | | |
| D921 | 1710000590 | Diode | GM-3B |
| D922 | 1710000350 | Diode | 1N4002 |
| D923 | 1710000330 | Diode | 1K60 |
| D924 | 1710000350 | Diode | 1N4002 |
| | | | |
| L921 | 6180000070 | Coil | LB4-R36J |
| L922 | 6140001260 | Coil | LR-151 |
| L924 | 6180001190 | Coil | FL 9H 102J |
| L925 | 6180001190 | Coil | FL 9H 102J |
| L926 | 6180000900 | Coil | LAL 03NA 101K |
| L927 | 6180000990 | Coil | LAL 04NA 101K |
| | | | |
| R921 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R922 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R923 | 7010003120 | Resistor | ELR20J 4.7 Ω |
| R924 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R925 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R926 | 7010004230 | Resistor | R20J 2.2 kΩ |
| R927 | 7010003280 | Resistor | ELR20J 100 Ω |
| R928 | 7010003380 | Resistor | ELR20J 680 Ω |
| R929 | 7100000230 | Resistor | SRW5P 56 Ω (560) |
| R930 | 7010004370 | Resistor | R20J 22 kΩ |
| R931 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R932 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R933 | 7540000010 | Absorber | DSA-301LA |
| R934 | 7010001360 | Resistor | R25J 47 kΩ |
| R935 | 7010003400 | Resistor | ELR20J 1 kΩ |
| | | | |
| C921 | 4010000330 | Ceramic | DD105 SL 101J 50V |
| C922 | 4010000360 | Ceramic | DD106 SL 181J 50V |
| C923 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C924 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C925 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C926 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C927 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C928 | 4510002840 | Electrolytic | 25 SS 10 μF |
| C929 | 4010003860 | Ceramic | DD06 SL 100D 500V |
| C930 | 4010000220 | Ceramic | DD104 SL 330J 50V |
| C931 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C932 | 4510002950 | Electrolytic | 50 SS 2R2 μF |
| C933 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C935 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C936 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C937 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C938 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C939 | 4010000500 | Ceramic | DD104 B 102K 50V |
| | | | |
| RL921 | 6330000110 | Relay | FBR22D12-P |
| RL922 | 6330000530 | Relay | UPM-12912Y |
| | | | |
| EP802 | 0910022472 | P.C. Board | B 2078B |

[DIN UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|--------------|------------------|
| Q881 | 1510000050 | Transistor | 2SA1015-Y |
| | | | |
| D881 | 1710000050 | Diode | 1SS53 |
| D882 | 1710000350 | Diode | 1N4002 |
| | | | |
| L881 | 6910000670 | Coil | BT01RN1-A61-001 |
| L884 | 6910000670 | Coil | BT01RN1-A61-001 |
| L885 | 6910000670 | Coil | BT01RN1-A61-001 |
| L886 | 6910000670 | Coil | BT01RN1-A61-001 |
| L887 | 6910000670 | Coil | BT01RN1-A61-001 |
| L888 | 6910000670 | Coil | BT01RN1-A61-001 |
| L889 | 6910000670 | Coil | BT01RN1-A61-001 |
| L890 | 6910000670 | Coil | BT01RN1-A61-001 |
| L891 | 6910000670 | Coil | BT01RN1-A61-001 |
| L892 | 6910000600 | Ferrite Bead | FSOH050RN |
| L893 | 6910000670 | Coil | BT01RN1-A61-001 |
| L894 | 6910000670 | Coil | BT01RN1-A61-001 |
| | | | |
| R881 | 7010000370 | Resistor | ELR25J 1 kΩ |
| R882 | 7010000370 | Resistor | ELR25J 1 kΩ |
| R883 | 7010000370 | Resistor | ELR25J 1 kΩ |
| R884 | 7010000290 | Resistor | ELR25J 220 Ω |
| R885 | 7010000290 | Resistor | ELR25J 220 Ω |
| R886 | 7010000290 | Resistor | ELR25J 220 Ω |
| R887 | 7010000450 | Resistor | ELR25J 4.7 kΩ |
| R888 | 7010000450 | Resistor | ELR25J 4.7 kΩ |
| R891 | 7010000290 | Resistor | ELR25J 220 Ω |
| | | | |
| C881 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C882 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C883 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C884 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C885 | 4010000520 | Ceramic | DD108 B 472K 50V |
| | | | |
| RL881 | 6330000540 | Relay | OMR-109F |
| | | | |
| EP803 | 0910012312 | P.C. Board | B 1108B |

[MAIN UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|------------|
| IC1001 | 1110000540 | IC | NJM4558D |
| IC1002 | 1110000540 | IC | NJM4558D |
| IC1003 | 1110000540 | IC | NJM4558D |
| IC1004 | 1130000600 | IC | μPD4001BC |
| IC1005 | 1110000330 | IC | M5218L |
| IC1006 | 1110000540 | IC | NJM4558D |
| IC1007 | 1110001320 | IC | μPC1037HA |
| IC1008 | 1130001000 | IC | μPD4066BC |
| IC1009 | 1130001000 | IC | μPD4066BC |
| IC1010 | 1110001320 | IC | μPC1037HA |
| IC1011 | 1110001320 | IC | μPC1037HA |
| IC1012 | 1130000600 | IC | μPD4001BC |
| IC1013 | 1130000620 | IC | μPD4011BC |
| IC1014 | 1130004480 | IC | TC74HC74AP |
| IC1015 | 1180000470 | IC | NJM7808A |
| IC1016 | 1130001000 | IC | μPD4066BC |
| IC1017 | 1120000970 | IC | M54562P |
| IC1019 | 1110001950 | IC | μPC494C |
| | | | |
| Q1001 | 1580000110 | FET | 3SK74 M |
| Q1002 | 1530000340 | Transistor | 2SC1583 G |

[MAIN UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|------------|
| Q1003 | 1530000110 | Transistor | 2SC2458-GR |
| Q1004 | 1530000110 | Transistor | 2SC2458-GR |
| Q1005 | 1530000110 | Transistor | 2SC2458-GR |
| Q1006 | 1590000360 | Transistor | RN2202 |
| Q1007 | 1580000110 | FET | 3SK74 M |
| Q1008 | 1590000350 | Transistor | RN1204 |
| Q1009 | 1530000110 | Transistor | 2SC2458-GR |
| Q1010 | 1530000940 | Transistor | 2SC1571G |
| Q1011 | 1590000350 | Transistor | RN1204 |
| Q1012 | 1590000350 | Transistor | RN1204 |
| Q1013 | 1530000810 | Transistor | 2SC2053 |
| Q1014 | 1530000110 | Transistor | 2SC2458-GR |
| Q1015 | 1580000110 | FET | 3SK74 M |
| Q1016 | 1530000110 | Transistor | 2SC2458-GR |
| Q1017 | 1530000110 | Transistor | 2SC2458-GR |
| Q1018 | 1590000350 | Transistor | RN1204 |
| Q1020 | 1510000070 | Transistor | 2SA1048-Y |
| Q1021 | 1590000360 | Transistor | RN2202 |
| Q1022 | 1530000110 | Transistor | 2SC2458-GR |
| Q1023 | 1590000350 | Transistor | RN1204 |
| Q1024 | 1530000110 | Transistor | 2SC2458-GR |
| Q1025 | 1590000350 | Transistor | RN1204 |
| Q1026 | 1590000350 | Transistor | RN1204 |
| Q1027 | 1590000350 | Transistor | RN1204 |
| Q1028 | 1530000660 | Transistor | 2SC1645B |
| Q1029 | 1590000350 | Transistor | RN1204 |
| Q1030 | 1590000340 | Transistor | RN1202 |
| Q1031 | 1530000660 | Transistor | 2SC1645B |
| Q1032 | 1530000110 | Transistor | 2SC2458-GR |
| Q1033 | 1540000200 | Transistor | 2SD1406 Y |
| Q1034 | 1540000070 | Transistor | 2SD468C |
| Q1035 | 1530000110 | Transistor | 2SC2458-GR |
| Q1036 | 1530000110 | Transistor | 2SC2458-GR |
| Q1037 | 1530000110 | Transistor | 2SC2458-GR |
| Q1038 | 1530000100 | Transistor | 2SC2458-Y |
| Q1039 | 1530000110 | Transistor | 2SC2458-GR |
| Q1040 | 1590000340 | Transistor | RN1202 |
| Q1041 | 1590000350 | Transistor | RN1204 |
| Q1042 | 1590000340 | Transistor | RN1202 |
| Q1043 | 1590000350 | Transistor | RN1204 |
| Q1044 | 1530000100 | Transistor | 2SC2458-Y |
| Q1045 | 1580000110 | FET | 3SK74 M |
| Q1046 | 1580000110 | FET | 3SK74 M |
| Q1047 | 1590000350 | Transistor | RN1204 |
| Q1048 | 1530000110 | Transistor | 2SC2458-GR |
| | | | |
| D1001 | 1710000330 | Diode | 1K60 |
| D1002 | 1710000330 | Diode | 1K60 |
| D1003 | 1710000160 | Diode | 1SS133 |
| D1004 | 1710000160 | Diode | 1SS133 |
| D1005 | 1710000330 | Diode | 1K60 |
| D1006 | 1710000330 | Diode | 1K60 |
| D1007 | 1710000050 | Diode | 1SS53 |
| D1008 | 1710000050 | Diode | 1SS53 |
| D1009 | 1710000050 | Diode | 1SS53 |
| D1010 | 1710000050 | Diode | 1SS53 |
| D1011 | 1710000050 | Diode | 1SS53 |
| D1012 | 1710000050 | Diode | 1SS53 |
| D1013 | 1710000050 | Diode | 1SS53 |
| D1014 | 1710000160 | Diode | 1SS133 |
| D1015 | 1710000270 | Diode | MI204 |
| D1016 | 1710000050 | Diode | 1SS53 |
| D1017 | 1710000050 | Diode | 1SS53 |
| D1018 | 1710000050 | Diode | 1SS53 |
| D1019 | 1710000050 | Diode | 1SS53 |
| D1020 | 1710000050 | Diode | 1SS53 |
| D1021 | 1710000050 | Diode | 1SS53 |
| D1022 | 1710000050 | Diode | 1SS53 |
| D1023 | 1710000050 | Diode | 1SS53 |
| D1024 | 1710000050 | Diode | 1SS53 |
| D1025 | 1710000050 | Diode | 1SS53 |
| D1026 | 1710000050 | Diode | 1SS53 |
| D1027 | 1710000050 | Diode | 1SS53 |
| D1028 | 1710000050 | Diode | 1SS53 |

[MAIN UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|----------------|
| D1029 | 1710000050 | Diode | 1SS53 |
| D1030 | 1710000160 | Diode | 1SS133 |
| D1031 | 1710000050 | Diode | 1SS53 |
| D1032 | 1710000050 | Diode | 1SS53 |
| D1033 | 1710000160 | Diode | 1SS133 |
| D1034 | 1710000160 | Diode | 1SS133 |
| D1035 | 1710000160 | Diode | 1SS133 |
| D1036 | 1710000160 | Diode | 1SS133 |
| D1037 | 1710000160 | Diode | 1SS133 |
| D1038 | 1710000160 | Diode | 1SS133 |
| D1039 | 1710000050 | Diode | 1SS53 |
| D1040 | 1710000160 | Diode | 1SS133 |
| D1041 | 1710000160 | Diode | 1SS133 |
| D1042 | 1710000160 | Diode | 1SS133 |
| D1043 | 1710000160 | Diode | 1SS133 |
| D1044 | 1710000330 | Diode | 1K60 |
| D1045 | 1710000330 | Diode | 1K60 |
| D1046 | 1710000050 | Diode | 1SS53 |
| D1047 | 1710000050 | Diode | 1SS53 |
| D1048 | 1710000050 | Diode | 1SS53 |
| D1049 | 1710000160 | Diode | 1SS133 |
| D1050 | 1710000160 | Diode | 1SS133 |
| D1051 | 1710000160 | Diode | 1SS133 |
| D1052 | 1710000160 | Diode | 1SS133 |
| D1053 | 1710000160 | Diode | 1SS133 |
| D1054 | 1710000160 | Diode | 1SS133 |
| D1055 | 1710000160 | Diode | 1SS133 |
| D1056 | 1710000160 | Diode | 1SS133 |
| D1057 | 1710000160 | Diode | 1SS133 |
| D1058 | 1710000160 | Diode | 1SS133 |
| D1059 | 1710000160 | Diode | 1SS133 |
| D1060 | 1710000160 | Diode | 1SS133 |
| D1061 | 1710000160 | Diode | 1SS133 |
| D1062 | 1710000160 | Diode | 1SS133 |
| D1063 | 1710000160 | Diode | 1SS133 |
| D1064 | 1710000160 | Diode | 1SS133 |
| D1065 | 1710000160 | Diode | 1SS133 |
| D1066 | 1710000160 | Diode | 1SS133 |
| D1067 | 1710000160 | Diode | 1SS133 |
| D1068 | 1710000160 | Diode | 1SS133 |
| D1069 | 1710000160 | Diode | 1SS133 |
| D1070 | 1710000160 | Diode | 1SS133 |
| D1071 | 1710000160 | Diode | 1SS133 |
| D1072 | 1710000160 | Diode | 1SS133 |
| D1073 | 1710000160 | Diode | 1SS133 |
| D1074 | 1730000070 | Zener | RD3.9E B2 |
| D1075 | 1710000050 | Diode | 1SS53 |
| D1076 | 1710000050 | Diode | 1SS53 |
| D1077 | 1710000160 | Diode | 1SS133 |
| D1078 | 1710000160 | Diode | 1SS133 |
| D1079 | 1730000070 | Zener | RD3.9E B2 |
| D1080 | 1790000250 | Diode | 1SS97 |
| D1081 | 1730000050 | Zener | RD3.0E B2 |
| D1082 | 1710000050 | Diode | 1SS53 |
| D1083 | 1720000110 | Varicap | FC51M |
| D1084 | 1720000110 | Varicap | FC51M |
| D1085 | 1710000160 | Diode | 1SS133 |
| D1086 | 1710000160 | Diode | 1SS133 |
| D1087 | 1710000040 | Diode | 1S953 |
| D1088 | 1710000040 | Diode | 1S953 |
| D1089 | 1710000050 | Diode | 1SS53 |
| D1090 | 1710000050 | Diode | 1SS53 |
| D1091 | 1710000050 | Diode | 1SS53 |
| D1092 | 1710000160 | Diode | 1SS133 |
| D1093 | 1710000160 | Diode | 1SS133 |
| | | | |
| FI1001 | 2010000320 | Filter | 9M22D2 (FL-30) |
| FI1002 | 2010000810 | Filter | 9M 6C1 (FL-33) |
| | | | |
| X1001 | 6050005810 | Crystal | CR-283 |
| X1002 | 6050005820 | Crystal | CR-284 |

[MAIN UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|---------------------|
| L1001 | 6150001590 | Coil | LS-175 |
| L1002 | 6150001590 | Coil | LS-175 |
| L1003 | 6150001590 | Coil | LS-175 |
| L1004 | 6150001250 | Coil | LS-137 |
| L1005 | 6150001470 | Coil | LS-163 |
| L1006 | 6150000700 | Coil | LS-90A |
| L1007 | 6150000700 | Coil | LS-90A |
| L1008 | 6180000900 | Coil | LAL 03NA 101K |
| L1009 | 6140001600 | Coil | LR-178 |
| L1010 | 6150001590 | Coil | LS-175 |
| L1011 | 6150001590 | Coil | LS-175 |
| L1012 | 6180000900 | Coil | LAL 03NA 101K |
| L1013 | 6150001590 | Coil | LS-175 |
| L1014 | 6150000700 | Coil | LS-90A |
| L1015 | 6150001470 | Coil | LS-163 |
| L1016 | 6180000890 | Coil | LAL 03NA 180K |
| L1017 | 6180000930 | Coil | LAL 03NA 220K |
| L1018 | 6180001710 | Coil | LAL 03NA 561K |
| L1019 | 6150002490 | Coil | LS-267 |
| L1020 | 6150002490 | Coil | LS-267 |
| L1021 | 6180001710 | Coil | LAL 03NA 561K |
| L1022 | 6180000990 | Coil | LAL 04NA 101K |
| L1023 | 6180000900 | Coil | LAL 03NA 101K |
| L1024 | 6910000670 | Coil | BT01RN1-A61-001 |
| L1025 | 6910000670 | Coil | BT01RN1-A61-001 |
| L1026 | 6180000760 | Coil | LAL 03NA R82M |
| L1027 | 6180002470 | Coil | LAL 03NA 471K |
| L1028 | 6180000900 | Coil | LAL 03NA 101K |
| R1001 | 7010003780 | Resistor | ELR20J 1 MΩ |
| R1002 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R1003 | 7010003340 | Resistor | ELR20J 330 Ω |
| R1004 | 7010004070 | Resistor | R20J 100 Ω |
| R1005 | 7010001320 | Resistor | R25J 22 kΩ |
| R1006 | 7010004190 | Resistor | R20J 1 kΩ |
| R1007 | 7010004070 | Resistor | R20J 100 Ω |
| R1008 | 7010001420 | Resistor | R25J 150 kΩ |
| R1009 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R1010 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R1011 | 7010004070 | Resistor | R20J 100 Ω |
| R1012 | 7010001260 | Resistor | R25J 6.8 kΩ |
| R1013 | 7010004410 | Resistor | R20J 47 kΩ |
| R1014 | 7010004430 | Resistor | R20J 68 kΩ |
| R1015 | 7010001090 | Resistor | R25J 330 Ω |
| R1016 | 7010001280 | Resistor | R25J 10 kΩ |
| R1017 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R1018 | 7010004450 | Resistor | R20J 100 kΩ |
| R1019 | 7010001030 | Resistor | R25J 100 Ω |
| R1020 | 7010003240 | Resistor | ELR20J 47 Ω |
| R1021 | 7010004070 | Resistor | R20J 100 Ω |
| R1022 | 7010004190 | Resistor | R20J 1 kΩ |
| R1023 | 7010004270 | Resistor | R20J 4.7 kΩ |
| R1025 | 7310000870 | Trimmer | RH1051D14J0PA (103) |
| R1026 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R1027 | 7010004400 | Resistor | R20J 39 kΩ |
| R1028 | 7010001070 | Resistor | R25J 220 Ω |
| R1029 | 7010003810 | Resistor | ELR20J 2.2 MΩ |
| R1030 | 7010003790 | Resistor | ELR20J 1.2 MΩ |
| R1031 | 7010004600 | Resistor | R20J 2.2 MΩ |
| R1032 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1033 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1034 | 7010004570 | Resistor | R20J 1 MΩ |
| R1035 | 7010003820 | Resistor | ELR20J 3.3 MΩ |
| R1036 | 7010003430 | Resistor | ELR20J 1.8 kΩ |
| R1037 | 7010001070 | Resistor | R25J 220 Ω |
| R1038 | 7010001280 | Resistor | R25J 10 kΩ |
| R1039 | 7010003480 | Resistor | ELR20J 4.7 kΩ |
| R1040 | 7010001400 | Resistor | R25J 100 kΩ |
| R1041 | 7010003480 | Resistor | ELR20J 4.7 kΩ |
| R1042 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R1043 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R1044 | 7010003610 | Resistor | ELR20J 39 kΩ |
| R1045 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R1046 | 7010004070 | Resistor | R20J 100 Ω |

[MAIN UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|---------------|
| R1047 | 7010003340 | Resistor | ELR20J 330 Ω |
| R1048 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R1049 | 7010004250 | Resistor | R20J 3.3 kΩ |
| R1050 | 7010001070 | Resistor | R25J 220 Ω |
| R1051 | 7010003550 | Resistor | ELR20J 15 kΩ |
| R1052 | 7010003420 | Resistor | ELR20J 1.5 kΩ |
| R1053 | 7010004320 | Resistor | R20J 10 kΩ |
| R1054 | 7010003480 | Resistor | ELR20J 4.7 kΩ |
| R1055 | 7010004490 | Resistor | R20J 220 kΩ |
| R1056 | 7010003300 | Resistor | ELR20J 150 Ω |
| R1057 | 7010004070 | Resistor | R20J 100 Ω |
| R1058 | 7010003700 | Resistor | ELR20J 220 kΩ |
| R1059 | 7010001110 | Resistor | R25J 470 Ω |
| R1060 | 7010003370 | Resistor | ELR20J 560 Ω |
| R1061 | 7010003550 | Resistor | ELR20J 15 kΩ |
| R1062 | 7010004320 | Resistor | R20J 10 kΩ |
| R1063 | 7010003550 | Resistor | ELR20J 15 kΩ |
| R1064 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R1065 | 7010004450 | Resistor | R20J 100 kΩ |
| R1066 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1067 | 7010004070 | Resistor | R20J 100 Ω |
| R1068 | 7010004020 | Resistor | R20J 39 Ω |
| R1069 | 7010004020 | Resistor | R20J 39 Ω |
| R1070 | 7010003970 | Resistor | R20J 15 Ω |
| R1071 | 7010004270 | Resistor | R20J 4.7 kΩ |
| R1072 | 7010001190 | Resistor | R25J 2.2 kΩ |
| R1073 | 7010003200 | Resistor | ELR20J 22 Ω |
| R1074 | 7010003150 | Resistor | ELR20J 8.2 Ω |
| R1075 | 7010004280 | Resistor | R20J 5.6 kΩ |
| R1076 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R1077 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R1078 | 7010001190 | Resistor | R25J 2.2 kΩ |
| R1079 | 7010003320 | Resistor | ELR20J 220 Ω |
| R1080 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R1081 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R1082 | 7010001030 | Resistor | R25J 100 Ω |
| R1083 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R1085 | 7010003340 | Resistor | ELR20J 330 Ω |
| R1086 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R1087 | 7010004370 | Resistor | R20J 22 kΩ |
| R1088 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1089 | 7010004390 | Resistor | R20J 33 kΩ |
| R1090 | 7010003320 | Resistor | ELR20J 220 Ω |
| R1091 | 7010001030 | Resistor | R25J 100 Ω |
| R1092 | 7010003420 | Resistor | ELR20J 1.5 kΩ |
| R1093 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1094 | 7010004070 | Resistor | R20J 100 Ω |
| R1095 | 7010004130 | Resistor | R20J 330 Ω |
| R1096 | 7010003700 | Resistor | ELR20J 220 kΩ |
| R1097 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R1098 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R1099 | 7010003420 | Resistor | ELR20J 1.5 kΩ |
| R1100 | 7010004320 | Resistor | R20J 10 kΩ |
| R1101 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R1102 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1103 | 7010003380 | Resistor | ELR20J 680 Ω |
| R1104 | 7010004210 | Resistor | R20J 1.5 kΩ |
| R1105 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R1106 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R1107 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R1108 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R1109 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R1110 | 7010004320 | Resistor | R20J 10 kΩ |
| R1111 | 7010004070 | Resistor | R20J 100 Ω |
| R1112 | 7010001030 | Resistor | R25J 100 Ω |
| R1113 | 7010001030 | Resistor | R25J 100 Ω |
| R1114 | 7010001030 | Resistor | R25J 100 Ω |
| R1115 | 7010004070 | Resistor | R20J 100 Ω |
| R1116 | 7010004230 | Resistor | R20J 2.2 kΩ |
| R1117 | 7010001030 | Resistor | R25J 100 Ω |
| R1118 | 7010004230 | Resistor | R20J 2.2 kΩ |
| R1119 | 7010001030 | Resistor | R25J 100 Ω |
| R1120 | 7010004230 | Resistor | R20J 2.2 kΩ |
| R1121 | 7010001030 | Resistor | R25J 100 Ω |
| R1122 | 7010003530 | Resistor | ELR20J 10 kΩ |

[MAIN UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION |
|----------|------------|-----------------------------|
| R1123 | 7010004110 | Resistor R20J 220 Ω |
| R1124 | 7010003530 | Resistor ELR20J 10 kΩ |
| R1125 | 7010003400 | Resistor ELR20J 1 kΩ |
| R1126 | 7010003480 | Resistor ELR20J 4.7 kΩ |
| R1127 | 7010004320 | Resistor R20J 10 kΩ |
| R1128 | 7010003440 | Resistor ELR20J 2.2 kΩ |
| R1129 | 7010004320 | Resistor R20J 10 kΩ |
| R1130 | 7010004370 | Resistor R20J 22 kΩ |
| R1131 | 7010003440 | Resistor ELR20J 2.2 kΩ |
| R1132 | 7010003320 | Resistor ELR20J 220 Ω |
| R1133 | 7010001030 | Resistor R25J 100 Ω |
| R1134 | 7010004390 | Resistor R20J 33 kΩ |
| R1135 | 7010003620 | Resistor ELR20J 47 kΩ |
| R1136 | 7310000750 | Trimmer RH0651C14J2WA (103) |
| R1137 | 7010004450 | Resistor R20J 100 kΩ |
| R1138 | 7310000750 | Trimmer RH0651C14J2WA (103) |
| R1139 | 7010003480 | Resistor ELR20J 4.7 kΩ |
| R1140 | 7010000990 | Resistor R25J 47 Ω |
| R1141 | 7010004190 | Resistor R20J 1 kΩ |
| R1144 | 7310000760 | Trimmer RH0651CJ4J01A (223) |
| R1145 | 7010003580 | Resistor ELR20J 22 kΩ |
| R1146 | 7010003280 | Resistor ELR20J 100 Ω |
| R1147 | 7010004270 | Resistor R20J 4.7 kΩ |
| R1148 | 7010001070 | Resistor R25J 220 Ω |
| R1149 | 7010003460 | Resistor ELR20J 3.3 kΩ |
| R1150 | 7010004070 | Resistor R20J 100 Ω |
| R1151 | 7010003660 | Resistor ELR20J 100 kΩ |
| R1152 | 7010003660 | Resistor ELR20J 100 kΩ |
| R1153 | 7010001210 | Resistor R25J 3.3 kΩ |
| R1154 | 7010001230 | Resistor R25J 4.7 kΩ |
| R1155 | 7010001200 | Resistor R25J 2.7 kΩ |
| R1156 | 7010003420 | Resistor ELR20J 1.5 kΩ |
| R1157 | 7010003560 | Resistor ELR20J 18 kΩ |
| R1158 | 7010003480 | Resistor ELR20J 4.7 kΩ |
| R1159 | 7010003660 | Resistor ELR20J 100 kΩ |
| R1160 | 7010001150 | Resistor R25J 1 kΩ |
| R1161 | 7010004450 | Resistor R20J 100 kΩ |
| R1162 | 7010001190 | Resistor R25J 2.2 kΩ |
| R1163 | 7010003550 | Resistor ELR20J 15 kΩ |
| R1164 | 7010003520 | Resistor ELR20J 8.2 kΩ |
| R1165 | 7010003490 | Resistor ELR20J 5.6 kΩ |
| R1166 | 7010003660 | Resistor ELR20J 100 kΩ |
| R1167 | 7010004250 | Resistor R20J 3.3 kΩ |
| R1168 | 7010003790 | Resistor ELR20J 1.2 MΩ |
| R1169 | 7010003400 | Resistor ELR20J 1 kΩ |
| R1170 | 7010003400 | Resistor ELR20J 1 kΩ |
| R1171 | 7010004520 | Resistor R20J 390 kΩ |
| R1172 | 7010003640 | Resistor ELR20J 68 kΩ |
| R1173 | 7010004390 | Resistor R20J 33 kΩ |
| R1174 | 7010003480 | Resistor ELR20J 4.7 kΩ |
| R1175 | 7010003580 | Resistor ELR20J 22 kΩ |
| R1176 | 7010003550 | Resistor ELR20J 15 kΩ |
| R1177 | 7310000870 | Trimmer RH1051D14JOPA (103) |
| R1178 | 7010004230 | Resistor R20J 2.2 kΩ |
| R1179 | 7010004370 | Resistor R20J 22 kΩ |
| R1180 | 7010004460 | Resistor R20J 120 kΩ |
| R1181 | 7010001030 | Resistor R25J 100 Ω |
| R1182 | 7010003400 | Resistor ELR20J 1 kΩ |
| R1183 | 7010004460 | Resistor R20J 120 kΩ |
| R1184 | 7010003670 | Resistor ELR20J 120 kΩ |
| R1185 | 7010003580 | Resistor ELR20J 22 kΩ |
| R1186 | 7010003550 | Resistor ELR20J 15 kΩ |
| R1187 | 7310000750 | Trimmer RH0651C14J2WA (103) |
| R1188 | 7010001070 | Resistor R25J 220 Ω |
| R1189 | 7010001400 | Resistor R25J 100 kΩ |
| R1190 | 7310000870 | Trimmer RH1051D14JOPA (103) |
| R1191 | 7010004450 | Resistor R20J 100 kΩ |
| R1192 | 7010001070 | Resistor R25J 220 Ω |
| R1193 | 7010003700 | Resistor ELR20J 220 kΩ |
| R1194 | 7010004370 | Resistor R20J 22 kΩ |
| R1195 | 7010003440 | Resistor ELR20J 2.2 kΩ |
| R1196 | 7010003320 | Resistor ELR20J 220 Ω |
| R1197 | 7010003320 | Resistor ELR20J 220 Ω |
| R1198 | 7010003440 | Resistor ELR20J 2.2 kΩ |
| R1199 | 7010003530 | Resistor ELR20J 10 kΩ |

[MAIN UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION |
|----------|------------|-----------------------------|
| R1200 | 7010003530 | Resistor ELR20J 10 kΩ |
| R1201 | 7010004320 | Resistor R20J 10 kΩ |
| R1202 | 7010004320 | Resistor R20J 10 kΩ |
| R1203 | 7010001280 | Resistor R25J 10 kΩ |
| R1204 | 7010001070 | Resistor R25J 220 Ω |
| R1205 | 7010003560 | Resistor ELR20J 18 kΩ |
| R1206 | 7010003320 | Resistor ELR20J 220 Ω |
| R1207 | 7010003550 | Resistor ELR20J 15 kΩ |
| R1208 | 7010003620 | Resistor ELR20J 47 kΩ |
| R1209 | 7010003480 | Resistor ELR20J 4.7 kΩ |
| R1210 | 7010003580 | Resistor ELR20J 22 kΩ |
| R1211 | 7010004110 | Resistor R20J 220 Ω |
| R1212 | 7010003660 | Resistor ELR20J 100 kΩ |
| R1213 | 7010003660 | Resistor ELR20J 100 kΩ |
| R1214 | 7010003660 | Resistor ELR20J 100 kΩ |
| R1215 | 7010004190 | Resistor R20J 1 kΩ |
| R1216 | 7010003400 | Resistor ELR20J 1 kΩ |
| R1217 | 7010003660 | Resistor ELR20J 100 kΩ |
| R1218 | 7010003360 | Resistor ELR20J 470 Ω |
| R1219 | 7010003710 | Resistor ELR20J 270 kΩ |
| R1220 | 7010001430 | Resistor R25J 180 kΩ |
| R1221 | 7010003390 | Resistor ELR20J 820 Ω |
| R1222 | 7010004320 | Resistor R20J 10 kΩ |
| R1223 | 7010004150 | Resistor R20J 470 Ω |
| R1224 | 7010003480 | Resistor ELR20J 4.7 kΩ |
| R1225 | 7010003580 | Resistor ELR20J 22 kΩ |
| R1226 | 7010003660 | Resistor ELR20J 100 kΩ |
| R1227 | 7010003640 | Resistor ELR20J 68 kΩ |
| R1228 | 7010004490 | Resistor R20J 220 kΩ |
| R1229 | 7010003700 | Resistor ELR20J 220 kΩ |
| R1230 | 7010004320 | Resistor R20J 10 kΩ |
| R1231 | 7010004320 | Resistor R20J 10 kΩ |
| R1232 | 7010000090 | Resistor ELR25J 4.7 Ω |
| R1233 | 7010004780 | Resistor R50XJ 470 Ω |
| R1234 | 7010000090 | Resistor ELR25J 4.7 Ω |
| R1235 | 7010003400 | Resistor ELR20J 1 kΩ |
| R1236 | 7010003400 | Resistor ELR20J 1 kΩ |
| R1237 | 7010003200 | Resistor ELR20J 22 Ω |
| R1238 | 7010003340 | Resistor ELR20J 330 Ω |
| R1239 | 7010003580 | Resistor ELR20J 22 kΩ |
| R1240 | 7010003620 | Resistor ELR20J 47 kΩ |
| R1241 | 7010003400 | Resistor ELR20J 1 kΩ |
| R1242 | 7010003690 | Resistor ELR20J 180 kΩ |
| R1243 | 7010004190 | Resistor R20J 1 kΩ |
| R1244 | 7010003320 | Resistor ELR20J 220 Ω |
| R1245 | 7010003400 | Resistor ELR20J 1 kΩ |
| R1246 | 7010001210 | Resistor R25J 3.3 kΩ |
| R1247 | 7010003370 | Resistor ELR20J 560 Ω |
| R1248 | 7010003400 | Resistor ELR20J 1 kΩ |
| R1249 | 7010003580 | Resistor ELR20J 22 kΩ |
| R1250 | 7010003580 | Resistor ELR20J 22 kΩ |
| R1251 | 7010003510 | Resistor ELR20J 6.8 kΩ |
| R1252 | 7010003360 | Resistor ELR20J 470 Ω |
| R1253 | 7010004030 | Resistor R20J 47 Ω |
| R1254 | 7010003400 | Resistor ELR20J 1 kΩ |
| R1255 | 7010003620 | Resistor ELR20J 47 kΩ |
| R1256 | 7010003580 | Resistor ELR20J 22 kΩ |
| R1257 | 7010004300 | Resistor R20J 6.8 kΩ |
| R1258 | 7010003440 | Resistor ELR20J 2.2 kΩ |
| R1259 | 7010003580 | Resistor ELR20J 22 kΩ |
| R1260 | 7010003580 | Resistor ELR20J 22 kΩ |
| R1261 | 7010003400 | Resistor ELR20J 1 kΩ |
| R1262 | 7010004110 | Resistor R20J 220 Ω |
| R1264 | 7310000750 | Trimmer RH0651C14J2WA (103) |
| R1265 | 7010003530 | Resistor ELR20J 10 kΩ |
| R1266 | 7010001400 | Resistor R25J 100 kΩ |
| R1267 | 7010003660 | Resistor ELR20J 100 kΩ |
| R1268 | 7010003530 | Resistor ELR20J 10 kΩ |
| R1269 | 7010003320 | Resistor ELR20J 220 Ω |
| R1270 | 7010004370 | Resistor R20J 22 kΩ |
| R1271 | 7010003480 | Resistor ELR20J 4.7 kΩ |
| R1272 | 7010003480 | Resistor ELR20J 4.7 kΩ |
| R1273 | 7010001300 | Resistor R25J 15 kΩ |
| R1274 | 7010003480 | Resistor ELR20J 4.7 kΩ |
| R1275 | 7010003700 | Resistor ELR20J 220 kΩ |

[MAIN UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|----------------|---------------------|
| R1276 | 7010004370 | Resistor | R20J 22 kΩ |
| R1277 | 7010003120 | Resistor | ELR20J 4.7 Ω |
| R1278 | 7010000990 | Resistor | R25J 47 Ω |
| R1279 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R1280 | 7010003720 | Resistor | ELR20J 330 kΩ |
| R1281 | 7010004110 | Resistor | R20J 220 Ω |
| R1282 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R1283 | 7010004190 | Resistor | R20J 1 kΩ |
| R1284 | 7010001340 | Resistor | R25J 33 kΩ |
| R1285 | 7010003600 | Resistor | ELR20J 33 kΩ |
| R1286 | 7010004300 | Resistor | R20J 6.8 kΩ |
| R1287 | 7410000210 | Resistor Array | RMX- 8 472K |
| R1288 | 7010003320 | Resistor | ELR20J 220 Ω |
| R1289 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R1290 | 7310000640 | Trimmer | RH0621CJ3J1GA (222) |
| R1291 | 7310001600 | Trimmer | RH0621C12J01A (101) |
| R1292 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1293 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1294 | 7010004410 | Resistor | R20J 47 kΩ |
| R1295 | 7010004610 | Resistor | R20J 3.3 MΩ |
| R1296 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1297 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1298 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1299 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1300 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1301 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1302 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1303 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R1304 | 7010004230 | Resistor | R20J 2.2 kΩ |
| R1305 | 7010003440 | Resistor | ELR20J 2.2 kΩ |
| R1306 | 7010003480 | Resistor | ELR20J 4.7 kΩ |
| R1307 | 7010003820 | Resistor | ELR20J 3.3 MΩ |
| R1308 | 7010003320 | Resistor | ELR20J 220 Ω |
| R1309 | 7010003320 | Resistor | ELR20J 220 Ω |
| R1310 | 7010001070 | Resistor | R25J 220 Ω |
| R1311 | 7010003720 | Resistor | ELR20J 330 kΩ |
| R1312 | 7010003730 | Resistor | ELR20J 390 kΩ |
| R1313 | 7010004410 | Resistor | R20J 47 kΩ |
| R1314 | 7010003320 | Resistor | ELR20J 220 Ω |
| R1315 | 7010003490 | Resistor | ELR20J 5.6 kΩ |
| R1316 | 7010003490 | Resistor | ELR20J 5.6 kΩ |
| R1317 | 7010003560 | Resistor | ELR20J 18 kΩ |
| R1318 | 7010003490 | Resistor | ELR20J 5.6 kΩ |
| R1319 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R1320 | 7010003600 | Resistor | ELR20J 33 kΩ |
| R1321 | 7010003340 | Resistor | ELR20J 330 Ω |
| R1322 | 7010003280 | Resistor | ELR20J 100 Ω |
| R1323 | 7010003530 | Resistor | ELR20J 10 kΩ |
| C1001 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C1002 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1003 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1004 | 4510001180 | Electrolytic | 50 MS7 3R3 μF |
| C1005 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1006 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1007 | 4510002840 | Electrolytic | 25 SS 10 μF |
| C1008 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1009 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1010 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1011 | 4020000250 | Cylinder | UP125 X 472M |
| C1012 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1013 | 4010000260 | Ceramic | DD104 SL 470J 50V |
| C1014 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C1015 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1016 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C1017 | 4510002790 | Electrolytic | 16 SS 22 μF |
| C1018 | 4510001140 | Electrolytic | 50 MS7 R22 μF |
| C1019 | 4510001170 | Electrolytic | 50 MS7 2R2 μF |
| C1020 | 4010000410 | Ceramic | DD107 SL 331J 50V |
| C1021 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1022 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C1023 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1024 | 4020000250 | Cylinder | UP125 X 472M |
| C1025 | 4010000410 | Ceramic | DD107 SL 331J 50V |

[MAIN UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|---------------|-------------------|
| C1026 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C1027 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C1028 | 4510001940 | Electrolytic | 16 MS7 22 μF |
| C1029 | 4510001730 | Electrolytic | 50 RBP 0.47 μF |
| C1030 | 4040000290 | Barrier Layer | UAT 04V 152K |
| C1031 | 4310000110 | Mylar | F2D 50V 472K |
| C1032 | 4010000380 | Ceramic | DD107 SL 221J 50V |
| C1033 | 4510002830 | Electrolytic | 25 SS 4R7 μF |
| C1034 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1035 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C1036 | 4310000020 | Mylar | F2D 50V 103K |
| C1037 | 4510002730 | Electrolytic | 10 SS 100 μF |
| C1038 | 4310000020 | Mylar | F2D 50V 103K |
| C1039 | 4510001770 | Electrolytic | 16 RBP 10 μF |
| C1040 | 4510001190 | Electrolytic | 50 MS7 4R7 μF |
| C1041 | 4510001730 | Electrolytic | 50 RBP 0.47 μF |
| C1042 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C1043 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1044 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1045 | 4020000050 | Cylinder | UP125 SL 4R7K |
| C1046 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1047 | 4020000810 | Cylinder | UP125 SL 121J |
| C1048 | 4010000040 | Ceramic | DD104 SL 020C 50V |
| C1049 | 4020000250 | Cylinder | UP125 X 472M |
| C1050 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1051 | 4510002790 | Electrolytic | 16 SS 22 μF |
| C1052 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1053 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1054 | 4010000260 | Ceramic | DD104 SL 470J 50V |
| C1055 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C1056 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1057 | 4310000090 | Mylar | F2D 50V 333K |
| C1058 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1059 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1060 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1062 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1063 | 4310000130 | Mylar | F2D 50V 563K |
| C1064 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C1065 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1066 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1067 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1068 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1069 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1070 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1071 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1072 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1073 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1074 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1075 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1076 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1077 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1078 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1079 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1081 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1082 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C1083 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1084 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1085 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1086 | 4040000190 | Barrier Layer | UAT 05X 103K |
| C1087 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C1088 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C1089 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1090 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1091 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C1092 | 4010000260 | Ceramic | DD104 SL 470J 50V |
| C1093 | 4510002950 | Electrolytic | 50 SS 2R2 μF |
| C1094 | 4310000020 | Mylar | F2D 50V 103K |
| C1095 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1096 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1097 | 4010000180 | Ceramic | DD104 SL 220J 50V |
| C1098 | 4020000120 | Cylinder | UP125 SL 470J |
| C1099 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C1100 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1101 | 4510002810 | Electrolytic | 16 SS 47 μF |
| C1102 | 4510001150 | Electrolytic | 50 MS7 R47 μF |

[MAIN UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-----------------|-------------------|
| C1103 | 4310000130 | Mylar | F2D 50V 563K |
| C1104 | 4510001170 | Electrolytic | 50 MS7 2R2 µF |
| C1105 | 4010000460 | Ceramic | DD104 B 471K 50V |
| C1106 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1107 | 4510002840 | Electrolytic | 25 SS 10 µF |
| C1108 | 4510001910 | Electrolytic | 25 MS7 10 µF |
| C1109 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1110 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C1111 | 4010000330 | Ceramic | DD105 SL 101J 50V |
| C1112 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C1113 | 4510002930 | Electrolytic | 50 SS R47 µF |
| C1114 | 4510001910 | Electrolytic | 25 MS7 10 µF |
| C1115 | 4510001910 | Electrolytic | 25 MS7 10 µF |
| C1116 | 4510001910 | Electrolytic | 25 MS7 10 µF |
| C1117 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C1118 | 4510002970 | Electrolytic | 50 SS 4R7 µF |
| C1119 | 4510001760 | Electrolytic | 25 RBP 4.7 µF |
| C1120 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C1121 | 4510001110 | Electrolytic | 16 MS7 47 µF |
| C1122 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1123 | 4310000060 | Mylar | F2D 50V 223K |
| C1124 | 4310000060 | Mylar | F2D 50V 223K |
| C1125 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1126 | 4510001910 | Electrolytic | 25 MS7 10 µF |
| C1127 | 4310000060 | Mylar | F2D 50V 223K |
| C1128 | 4510002950 | Electrolytic | 50 SS 2R2 µF |
| C1129 | 4510001180 | Electrolytic | 50 MS7 3R3 µF |
| C1130 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1131 | 4010000260 | Ceramic | DD104 SL 470J 50V |
| C1132 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1133 | 4010000350 | Ceramic | DD106 SL 151J 50V |
| C1134 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1135 | 4510002840 | Electrolytic | 25 SS 10 µF |
| C1136 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1137 | 4010000040 | Ceramic | DD104 SL 020C 50V |
| C1138 | 4010000400 | Ceramic | DD107 SL 301J 50V |
| C1139 | 4010000400 | Ceramic | DD107 SL 301J 50V |
| C1140 | 4040000290 | Barrier Layer | UAT 04V 152K |
| C1141 | 4010000350 | Ceramic | DD106 SL 151J 50V |
| C1142 | 4010000190 | Ceramic | DD104 SL 240J 50V |
| C1143 | 4010000380 | Ceramic | DD107 SL 221J 50V |
| C1144 | 4010000110 | Ceramic | DD104 SL 090D 50V |
| C1145 | 4010000350 | Ceramic | DD106 SL 151J 50V |
| C1146 | 4010004610 | Ceramic | DD360 YL 201J 50V |
| C1147 | 4010004610 | Ceramic | DD360 YL 201J 50V |
| C1148 | 4010000900 | Ceramic | DD107 CH 680J 50V |
| C1149 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1150 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1151 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1152 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1153 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1154 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1155 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1156 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1157 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1158 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1159 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1160 | 4610000130 | Trimmer | CV05E3001 |
| C1161 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1162 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1163 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1164 | 4510002850 | Electrolytic | 25 SS 22 µF |
| C1165 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1166 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C1167 | 4510002810 | Electrolytic | 16 SS 47 µF |
| C1168 | 4310000010 | Mylar | F2D 50V 102K |
| C1169 | 4510002850 | Electrolytic | 25 SS 22 µF |
| C1170 | 4510002730 | Electrolytic | 10 SS 100 µF |
| C1171 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1172 | 4510002810 | Electrolytic | 16 SS 47 µF |
| C1174 | 4530000350 | Capacitor Array | B8ZC0111-32N |
| C1175 | 4530000350 | Capacitor Array | B8ZC0111-32N |
| C1176 | 4010000350 | Ceramic | DD106 SL 151J 50V |
| C1178 | 4510001110 | Electrolytic | 16 MS7 47 µF |
| C1179 | 4010000520 | Ceramic | DD108 B 472K 50V |

[MAIN UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|---------------|---------------------|
| C1180 | 4510002850 | Electrolytic | 25 SS 22 µF |
| C1181 | 4510002950 | Electrolytic | 50 SS 2R2 µF |
| C1182 | 4510002810 | Electrolytic | 16 SS 47 µF |
| C1185 | 4510002850 | Electrolytic | 25 SS 22 µF |
| C1187 | 4510002850 | Electrolytic | 25 SS 22 µF |
| C1188 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1189 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1190 | 4550000340 | Tantalum | DN 1C 100M |
| C1191 | 4310000200 | Mylar | F2D 50V 153K |
| C1192 | 4310000200 | Mylar | F2D 50V 153K |
| C1193 | 4310000200 | Mylar | F2D 50V 153K |
| C1194 | 4550000340 | Tantalum | DN 1C 100M |
| C1195 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C1196 | 4510001100 | Electrolytic | 16 MS7 10 µF |
| C1197 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C1198 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1199 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C1200 | 4010000520 | Ceramic | DD108 B 472K 50V |
| S1001 | 2220000400 | Switch | SW-108 (SSSS91685A) |
| S1002 | 2220000400 | Switch | SW-108 (SSSS91685A) |
| S1003 | 2220000400 | Switch | SW-108 (SSSS91685A) |
| S1004 | 2220000400 | Switch | SW-108 (SSSS91685A) |
| EP1001 | 0910022482 | P.C. Board | B 2074B |
| EP1002 | 6910000630 | Ferrite Bead | FSOH070RN |

[RF UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|------------|
| IC601 | 1790000050 | IC | ND487C1-3R |
| IC602 | 1180000070 | IC | NJM78L08A |
| IC603 | 1110000540 | IC | NJM4558D |
| IC604 | 1110000540 | IC | NJM4558D |
| IC605 | 1120000970 | IC | M54562P |
| Q601 | 1580000110 | FET | 3SK74 M |
| Q602 | 1560000130 | FET | 2SK125 |
| Q603 | 1560000130 | FET | 2SK125 |
| Q604 | 1590000340 | Transistor | RN1202 |
| Q605 | 1590000340 | Transistor | RN1202 |
| Q606 | 1530000810 | Transistor | 2SC2053 |
| Q607 | 1580000100 | FET | 3SK74 K |
| Q608 | 1580000100 | FET | 3SK74 K |
| Q609 | 1580000110 | FET | 3SK74 M |
| Q610 | 1590000340 | Transistor | RN1202 |
| Q611 | 1590000350 | Transistor | RN1204 |
| Q612 | 1590000350 | Transistor | RN1204 |
| Q613 | 1530000100 | Transistor | 2SC2458-Y |
| Q614 | 1590000350 | Transistor | RN1204 |
| Q615 | 1590000350 | Transistor | RN1204 |
| Q616 | 1590000350 | Transistor | RN1204 |
| Q617 | 1590000340 | Transistor | RN1202 |
| Q618 | 1530000810 | Transistor | 2SC2053 |
| Q619 | 1590000350 | Transistor | RN1204 |
| Q620 | 1590000350 | Transistor | RN1204 |
| Q621 | 1590000360 | Transistor | RN2202 |
| D601 | 1710000050 | Diode | 1SS53 |
| D602 | 1710000050 | Diode | 1SS53 |
| D603 | 1710000050 | Diode | 1SS53 |
| D604 | 1710000050 | Diode | 1SS53 |
| D605 | 1710000050 | Diode | 1SS53 |
| D606 | 1710000050 | Diode | 1SS53 |
| D607 | 1710000050 | Diode | 1SS53 |

[RF UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|-----------------|
| D608 | 1710000050 | Diode | 1SS53 |
| D609 | 1710000050 | Diode | 1SS53 |
| D610 | 1710000050 | Diode | 1SS53 |
| D611 | 1710000050 | Diode | 1SS53 |
| D612 | 1710000050 | Diode | 1SS53 |
| D613 | 1710000050 | Diode | 1SS53 |
| D614 | 1710000050 | Diode | 1SS53 |
| D615 | 1710000050 | Diode | 1SS53 |
| D616 | 1710000050 | Diode | 1SS53 |
| D617 | 1710000050 | Diode | 1SS53 |
| D618 | 1710000050 | Diode | 1SS53 |
| D619 | 1710000050 | Diode | 1SS53 |
| D620 | 1710000050 | Diode | 1SS53 |
| D621 | 1710000050 | Diode | 1SS53 |
| D622 | 1710000050 | Diode | 1SS53 |
| D623 | 1710000050 | Diode | 1SS53 |
| D624 | 1710000160 | Diode | 1SS133 |
| D625 | 1710000160 | Diode | 1SS133 |
| D626 | 1710000160 | Diode | 1SS133 |
| D627 | 1710000160 | Diode | 1SS133 |
| D629 | 1710000160 | Diode | 1SS133 |
| D630 | 1710000160 | Diode | 1SS133 |
| D631 | 1710000160 | Diode | 1SS133 |
| D632 | 1710000160 | Diode | 1SS133 |
| D633 | 1710000160 | Diode | 1SS133 |
| D634 | 1710000160 | Diode | 1SS133 |
| D635 | 1710000160 | Diode | 1SS133 |
| D636 | 1710000050 | Diode | 1SS53 |
| F1601 | 2010001010 | Filter | 69M15B (FL-120) |
| L601 | 6180000780 | Coil | LAL 03NA 1R2M |
| L602 | 6180000780 | Coil | LAL 03NA 1R2M |
| L603 | 6180000700 | Coil | LAL 03NA R27M |
| L604 | 6140000930 | Coil | LR-116 |
| L605 | 6140000930 | Coil | LR-116 |
| L606 | 6150002430 | Coil | LS-254 |
| L607 | 6150002430 | Coil | LS-254 |
| L608 | 6150000990 | Coil | LS-114 |
| L609 | 6150002430 | Coil | LS-254 |
| L610 | 6150002430 | Coil | LS-254 |
| L611 | 6150001770 | Coil | LS-198 |
| L612 | 6140000930 | Coil | LR-116 |
| L613 | 6110001790 | Coil | LA-268 |
| L614 | 6110001720 | Coil | LA-258 |
| L615 | 6180000850 | Coil | LAL 03NA 4R7K |
| L616 | 6180000860 | Coil | LAL 03NA 5R6K |
| L617 | 6180001000 | Coil | LAL 04NA 102K |
| L618 | 6180001710 | Coil | LAL 03NA 561K |
| L619 | 6180002050 | Coil | EL0606SKI-2R7K |
| L620 | 6180002020 | Coil | EL0606SKI-1R5K |
| L621 | 6180002050 | Coil | EL0606SKI-2R7K |
| L622 | 6180002470 | Coil | LAL 03NA 471K |
| L623 | 6180002030 | Coil | EL0606SKI-1R8K |
| L624 | 6180002010 | Coil | EL0606SKI-1R2K |
| L625 | 6180002030 | Coil | EL0606SKI-1R8K |
| L626 | 6180000900 | Coil | LAL 03NA 101K |
| L627 | 6180002000 | Coil | EL0606SKI-1R0K |
| L628 | 6180002490 | Coil | EL0606SKI-R82K |
| L629 | 6180002010 | Coil | EL0606SKI-1R2K |
| L630 | 6180000900 | Coil | LAL 03NA 101K |
| L631 | 6180000130 | Coil | LB4-R70J |
| L632 | 6180000100 | Coil | LB4-R50J |
| L633 | 6180000130 | Coil | LB4-R70J |
| L634 | 6180000900 | Coil | LAL 03NA 101K |
| L635 | 6180000100 | Coil | LB4-R50J |
| L636 | 6180000710 | Coil | LAL 03NA R33M |
| L637 | 6180000100 | Coil | LB4-R50J |
| L638 | 6180000880 | Coil | LAL 03NA 100K |
| L639 | 6180000720 | Coil | LAL 03NA R39M |
| L640 | 6180000700 | Coil | LAL 03NA R27M |
| L641 | 6180000720 | Coil | LAL 03NA R39M |
| L642 | 6180000900 | Coil | LAL 03NA 101K |

[RF UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|---------------------|
| L643 | 6180000050 | Coil | LB4-R30J |
| L644 | 6110001650 | Coil | LA-248 |
| L645 | 6180000050 | Coil | LB4-R30J |
| L646 | 6180000900 | Coil | LAL 03NA 101K |
| L647 | 6110001780 | Coil | LA-267 |
| L648 | 6110001640 | Coil | LA-247 |
| L649 | 6110001780 | Coil | LA-267 |
| L650 | 6180000900 | Coil | LAL 03NA 101K |
| L651 | 6180001710 | Coil | LAL 03NA 561K |
| L652 | 6180000850 | Coil | LAL 03NA 4R7K |
| L653 | 6180000860 | Coil | LAL 03NA 5R6K |
| L654 | 6180000690 | Coil | LAL 03NA R22M |
| L655 | 6140000060 | Coil | LR-18 |
| L656 | 6180001710 | Coil | LAL 03NA 561K |
| L657 | 6180002510 | Coil | LAL 04NA 471K |
| L658 | 6180000990 | Coil | LAL 04NA 101K |
| L659 | 6180000030 | Coil | LB4-R15J |
| L660 | 6180000880 | Coil | LAL 03NA 100K |
| L661 | 6180000880 | Coil | LAL 03NA 100K |
| L662 | 6140001260 | Coil | LR-151 |
| L663 | 6140001460 | Coil | LR-170 |
| L664 | 6110001610 | Coil | LA-244 |
| L665 | 6150001770 | Coil | LS-198 |
| L666 | 6140001600 | Coil | LR-178 |
| L667 | 6180000960 | Coil | LAL 03NA 102K |
| L668 | 6180000820 | Coil | LAL 03NA 2R7M |
| L669 | 6180000800 | Coil | LAL 03NA 1R8M |
| L670 | 6180000900 | Coil | LAL 03NA 101K |
| L671 | 6140000060 | Coil | LR-18 |
| L673 | 6180002470 | Coil | LAL 03NA 471K |
| L674 | 6180001180 | Coil | FL 9H 471K |
| L675 | 6180002470 | Coil | LAL 03NA 471K |
| L676 | 6910000670 | Coil | BT01RN1-A61-001 |
| L677 | 6910000670 | Coil | BT01RN1-A61-001 |
| L678 | 6180000910 | Coil | LAL 03NA 121K |
| L679 | 6180000900 | Coil | LAL 03NA 101K |
| L680 | 6180000990 | Coil | LAL 04NA 101K |
| R601 | 7010004270 | Resistor | R20J 4.7 kΩ |
| R602 | 7010003240 | Resistor | ELR20J 47 Ω |
| R603 | 7010003150 | Resistor | ELR20J 8.2 Ω |
| R604 | 7010003150 | Resistor | ELR20J 8.2 Ω |
| R605 | 7010003300 | Resistor | ELR20J 150 Ω |
| R606 | 7010003480 | Resistor | ELR20J 4.7 kΩ |
| R607 | 7010004230 | Resistor | R20J 2.2 kΩ |
| R608 | 7010004070 | Resistor | R20J 100 Ω |
| R609 | 7010004570 | Resistor | R20J 1 MΩ |
| R610 | 7010001280 | Resistor | R25J 10 kΩ |
| R612 | 7010003470 | Resistor | ELR20J 3.9 kΩ |
| R613 | 7010003280 | Resistor | ELR20J 100 Ω |
| R614 | 7010004320 | Resistor | R20J 10 kΩ |
| R615 | 7010000990 | Resistor | R25J 47 Ω |
| R616 | 7010003530 | Resistor | ELR20J 10 kΩ |
| R617 | 7010004110 | Resistor | R20J 220 Ω |
| R618 | 7010003370 | Resistor | ELR20J 560 Ω |
| R619 | 7010003280 | Resistor | ELR20J 100 Ω |
| R620 | 7010003370 | Resistor | ELR20J 560 Ω |
| R621 | 7310000740 | Trimmer | RH0651CS3J2KA (472) |
| R622 | 7010004170 | Resistor | R20J 680 Ω |
| R623 | 7010004160 | Resistor | R20J 560 Ω |
| R624 | 7010003390 | Resistor | ELR20J 820 Ω |
| R625 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R626 | 7010004270 | Resistor | R20J 4.7 kΩ |
| R627 | 7010003170 | Resistor | ELR20J 12 Ω |
| R628 | 7010003350 | Resistor | ELR20J 390 Ω |
| R629 | 7010003350 | Resistor | ELR20J 390 Ω |
| R630 | 7010004170 | Resistor | R20J 680 Ω |
| R631 | 7010003490 | Resistor | ELR20J 5.6 kΩ |
| R632 | 7010001320 | Resistor | R25J 22 kΩ |
| R633 | 7010003400 | Resistor | ELR20J 1 kΩ |
| R634 | 7010003150 | Resistor | ELR20J 8.2 Ω |
| R635 | 7010003990 | Resistor | R20J 22 Ω |
| R636 | 7010004270 | Resistor | R20J 4.7 kΩ |
| R637 | 7010003580 | Resistor | ELR20J 22 kΩ |

[RF UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION |
|----------|------------|-----------------------------|
| R638 | 7010001340 | Resistor R25J 33 kΩ |
| R639 | 7010004610 | Resistor R20J 3.3 MΩ |
| R640 | 7010004490 | Resistor R20J 220 kΩ |
| R641 | 7010003610 | Resistor ELR20J 39 kΩ |
| R643 | 7010003820 | Resistor ELR20J 3.3 MΩ |
| R644 | 7010003540 | Resistor ELR20J 12 kΩ |
| R645 | 7010004110 | Resistor R20J 220 Ω |
| R646 | 7010003740 | Resistor ELR20J 470 kΩ |
| R647 | 7010004530 | Resistor R20J 470 kΩ |
| R648 | 7010003590 | Resistor ELR20J 27 kΩ |
| R649 | 7010004110 | Resistor R20J 220 Ω |
| R650 | 7010004490 | Resistor R20J 220 kΩ |
| R651 | 7010004070 | Resistor R20J 100 Ω |
| R652 | 7010003510 | Resistor ELR20J 6.8 kΩ |
| R653 | 7010004310 | Resistor R20J 8.2 kΩ |
| R654 | 7080000350 | Resistor CRB25FX 68 kΩ |
| R655 | 7080000330 | Resistor CRB25FX 39 kΩ |
| R656 | 7080000350 | Resistor CRB25FX 68 kΩ |
| R657 | 7310001840 | Trimmer RH0421CS3J08A (472) |
| R658 | 7080000330 | Resistor CRB25FX 39 kΩ |
| R659 | 7010001400 | Resistor R25J 100 kΩ |
| R661 | 7010003480 | Resistor ELR20J 4.7 kΩ |
| R662 | 7010004340 | Resistor R20J 15 kΩ |
| R663 | 7010004510 | Resistor R20J 330 kΩ |
| R664 | 7010004410 | Resistor R20J 47 kΩ |
| R665 | 7010003720 | Resistor ELR20J 330 kΩ |
| R666 | 7010004330 | Resistor R20J 12 kΩ |
| R667 | 7010003600 | Resistor ELR20J 33 kΩ |
| R668 | 7010001280 | Resistor R25J 10 kΩ |
| R669 | 7010003530 | Resistor ELR20J 10 kΩ |
| R670 | 7010003530 | Resistor ELR20J 10 kΩ |
| R671 | 7010003620 | Resistor ELR20J 47 kΩ |
| R672 | 7010003550 | Resistor ELR20J 15 kΩ |
| R673 | 7010003170 | Resistor ELR20J 12 Ω |
| R674 | 7010003350 | Resistor ELR20J 390 Ω |
| R675 | 7010003350 | Resistor ELR20J 390 Ω |
| R676 | 7010004230 | Resistor R20J 2.2 kΩ |
| R677 | 7010000970 | Resistor R25J 33 Ω |
| R678 | 7010004050 | Resistor R20J 68 Ω |
| R679 | 7010003660 | Resistor ELR20J 100 kΩ |
| R680 | 7010003280 | Resistor ELR20J 100 Ω |
| R681 | 7310000680 | Trimmer RH0651C12J04A (101) |
| R682 | 7010003280 | Resistor ELR20J 100 Ω |
| R683 | 7010003660 | Resistor ELR20J 100 kΩ |
| R684 | 7010004050 | Resistor R20J 68 Ω |
| R685 | 7010003350 | Resistor ELR20J 390 Ω |
| R686 | 7510000160 | Thermistor ERT-D2FGL301S |
| R687 | 7010003350 | Resistor ELR20J 390 Ω |
| R688 | 7310000700 | Trimmer RH0651CS2J1HA (471) |
| R689 | 7010003320 | Resistor ELR20J 220 Ω |
| R690 | 7010004150 | Resistor R20J 470 Ω |
| R691 | 7010001030 | Resistor R25J 100 Ω |
| R692 | 7010004370 | Resistor R20J 22 kΩ |
| R693 | 7010004070 | Resistor R20J 100 Ω |
| R694 | 7010004320 | Resistor R20J 10 kΩ |
| R695 | 7010001320 | Resistor R25J 22 kΩ |
| R696 | 7010004320 | Resistor R20J 10 kΩ |
| R697 | 7010003380 | Resistor ELR20J 680 Ω |
| R698 | 7010003480 | Resistor ELR20J 4.7 kΩ |
| R699 | 7010003240 | Resistor ELR20J 47 Ω |
| R700 | 7010000970 | Resistor R25J 33 Ω |
| R701 | 7010003400 | Resistor ELR20J 1 kΩ |
| R702 | 7010003530 | Resistor ELR20J 10 kΩ |
| R703 | 7010003530 | Resistor ELR20J 10 kΩ |
| R704 | 7010003530 | Resistor ELR20J 10 kΩ |
| R705 | 7010003530 | Resistor ELR20J 10 kΩ |
| R706 | 7010003530 | Resistor ELR20J 10 kΩ |
| R707 | 7010003530 | Resistor ELR20J 10 kΩ |
| R708 | 7010003530 | Resistor ELR20J 10 kΩ |
| R709 | 7010003530 | Resistor ELR20J 10 kΩ |
| R710 | 7010003530 | Resistor ELR20J 10 kΩ |
| R711 | 7010004570 | Resistor R20J 1 MΩ |
| R712 | 7010001360 | Resistor R25J 47 kΩ |
| R713 | 7010001070 | Resistor R25J 220 Ω |
| R714 | 7010003320 | Resistor ELR20J 220 Ω |

[RF UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION |
|----------|------------|-----------------------------|
| R715 | 7010003320 | Resistor ELR20J 220 Ω |
| R716 | 7010003320 | Resistor ELR20J 220 Ω |
| R717 | 7010003320 | Resistor ELR20J 220 Ω |
| R718 | 7010003320 | Resistor ELR20J 220 Ω |
| R719 | 7010003320 | Resistor ELR20J 220 Ω |
| R720 | 7010003320 | Resistor ELR20J 220 Ω |
| R721 | 7010001280 | Resistor R25J 10 kΩ |
| R722 | 7010001280 | Resistor R25J 10 kΩ |
| R723 | 7010004070 | Resistor R20J 100 Ω |
| R724 | 7410000180 | Resistor Array RMX- 8 103K |
| R725 | 7010004370 | Resistor R20J 22 kΩ |
| R726 | 7010001280 | Resistor R25J 10 kΩ |
| C601 | 4010000410 | Ceramic DD107 SL 331J 50V |
| C602 | 4010000430 | Ceramic DD109 SL 471J 50V |
| C603 | 4010000520 | Ceramic DD108 B 472K 50V |
| C604 | 4010000390 | Ceramic DD107 SL 271J 50V |
| C605 | 4010000420 | Ceramic DD108 SL 391J 50V |
| C606 | 4010000520 | Ceramic DD108 B 472K 50V |
| C607 | 4010000520 | Ceramic DD108 B 472K 50V |
| C608 | 4010000520 | Ceramic DD108 B 472K 50V |
| C609 | 4010000520 | Ceramic DD108 B 472K 50V |
| C610 | 4310000020 | Mylar F2D 50V 103K |
| C611 | 4010000520 | Ceramic DD108 B 472K 50V |
| C612 | 4010000500 | Ceramic DD104 B 102K 50V |
| C613 | 4010000060 | Ceramic DD104 SL 040C 50V |
| C614 | 4010000500 | Ceramic DD104 B 102K 50V |
| C615 | 4040000260 | Barrier Layer UZE 08X 104M |
| C616 | 4040000260 | Barrier Layer UZE 08X 104M |
| C617 | 4040000260 | Barrier Layer UZE 08X 104M |
| C618 | 4040000260 | Barrier Layer UZE 08X 104M |
| C619 | 4010000320 | Ceramic DD104 SL 820J 50V |
| C620 | 4010000120 | Ceramic DD104 SL 100D 50V |
| C621 | 4010000350 | Ceramic DD106 SL 151J 50V |
| C622 | 4010000210 | Ceramic DD104 SL 300J 50V |
| C623 | 4040000260 | Barrier Layer UZE 08X 104M |
| C624 | 4040000300 | Barrier Layer UAT 04V 182K |
| C625 | 4040000310 | Barrier Layer UAT 04V 222K |
| C627 | 4010000520 | Ceramic DD108 B 472K 50V |
| C628 | 4510002840 | Electrolytic 25 SS 10 μF |
| C629 | 4040000310 | Barrier Layer UAT 04V 222K |
| C630 | 4040000290 | Barrier Layer UAT 04V 152K |
| C631 | 4040000250 | Barrier Layer UAT 08X 473M |
| C632 | 4040000250 | Barrier Layer UAT 08X 473M |
| C633 | 4040000270 | Barrier Layer UAT 04V 102K |
| C634 | 4040000270 | Barrier Layer UAT 04V 102K |
| C635 | 4040000250 | Barrier Layer UAT 08X 473M |
| C636 | 4040000250 | Barrier Layer UAT 08X 473M |
| C637 | 4040000440 | Barrier Layer RAU 06SA 561K |
| C638 | 4010000430 | Ceramic DD109 SL 471J 50V |
| C639 | 4040000250 | Barrier Layer UAT 08X 473M |
| C640 | 4040000250 | Barrier Layer UAT 08X 473M |
| C641 | 4010000430 | Ceramic DD109 SL 471J 50V |
| C642 | 4010000410 | Ceramic DD107 SL 331J 50V |
| C643 | 4040000250 | Barrier Layer UAT 08X 473M |
| C644 | 4040000250 | Barrier Layer UAT 08X 473M |
| C645 | 4010000390 | Ceramic DD107 SL 271J 50V |
| C646 | 4010000390 | Ceramic DD107 SL 271J 50V |
| C647 | 4040000250 | Barrier Layer UAT 08X 473M |
| C648 | 4040000250 | Barrier Layer UAT 08X 473M |
| C649 | 4010000370 | Ceramic DD106 SL 201J 50V |
| C650 | 4010000370 | Ceramic DD106 SL 201J 50V |
| C651 | 4040000250 | Barrier Layer UAT 08X 473M |
| C652 | 4040000250 | Barrier Layer UAT 08X 473M |
| C653 | 4010000360 | Ceramic DD106 SL 181J 50V |
| C654 | 4010000360 | Ceramic DD106 SL 181J 50V |
| C655 | 4040000250 | Barrier Layer UAT 08X 473M |
| C656 | 4040000250 | Barrier Layer UAT 08X 473M |
| C657 | 4010000340 | Ceramic DD105 SL 121J 50V |
| C658 | 4010000340 | Ceramic DD105 SL 121J 50V |
| C659 | 4040000250 | Barrier Layer UAT 08X 473M |
| C660 | 4040000250 | Barrier Layer UAT 08X 473M |
| C661 | 4010000520 | Ceramic DD108 B 472K 50V |
| C663 | 4010000330 | Ceramic DD105 SL 101J 50V |

[RF UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-----------------|-------------------|
| C664 | 4010000380 | Ceramic | DD107 SL 221J 50V |
| C665 | 4510002850 | Electrolytic | 25 SS 22 μF |
| C666 | 4510002970 | Electrolytic | 50 SS 4R7 μF |
| C667 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C668 | 4510002840 | Electrolytic | 25 SS 10 μF |
| C669 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C670 | 4010000180 | Ceramic | DD104 SL 220J 50V |
| C671 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C672 | 4040000290 | Barrier Layer | UAT 04V 152K |
| C673 | 4040000270 | Barrier Layer | UAT 04V 102K |
| C674 | 4040000300 | Barrier Layer | UAT 04V 182K |
| C675 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C676 | 4040000390 | Barrier Layer | UAT 06V 103K |
| C677 | 4040000350 | Barrier Layer | UAT 05V 472K |
| C678 | 4010000350 | Ceramic | DD106 SL 151J 50V |
| C679 | 4010000350 | Ceramic | DD106 SL 151J 50V |
| C680 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C681 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C682 | 4510002940 | Electrolytic | 50 SS 1 μF |
| C683 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C684 | 4510002840 | Electrolytic | 25 SS 10 μF |
| C685 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C686 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C687 | 4010000240 | Ceramic | DD104 SL 390J 50V |
| C688 | 4010000380 | Ceramic | DD107 SL 221J 50V |
| C689 | 4010000240 | Ceramic | DD104 SL 390J 50V |
| C690 | 4510002980 | Electrolytic | 50 SS 10 μF |
| C691 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C692 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C693 | 4010000100 | Ceramic | DD104 SL 080D 50V |
| C694 | 4010000070 | Ceramic | DD104 SL 050C 50V |
| C695 | 4010000150 | Ceramic | DD104 SL 150J 50V |
| C696 | 4010000020 | Ceramic | DD104 SL 010C 50V |
| C697 | 4010000120 | Ceramic | DD104 SL 100D 50V |
| C698 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C699 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C700 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C701 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C702 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C703 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C704 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C705 | 4010000100 | Ceramic | DD104 SL 080D 50V |
| C706 | 4010000040 | Ceramic | DD104 SL 020C 50V |
| C707 | 4010000170 | Ceramic | DD104 SL 200J 50V |
| C708 | 4010000090 | Ceramic | DD104 SL 070D 50V |
| C709 | 4010000070 | Ceramic | DD104 SL 050C 50V |
| C710 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C711 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C712 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C713 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C714 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C715 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C716 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C717 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C718 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C719 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C720 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C721 | 4510002850 | Electrolytic | 25 SS 22 μF |
| C722 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C723 | 4010000100 | Ceramic | DD104 SL 080D 50V |
| C724 | 4010000100 | Ceramic | DD104 SL 080D 50V |
| C725 | 4010000100 | Ceramic | DD104 SL 080D 50V |
| C726 | 4010000050 | Ceramic | DD104 SL 030C 50V |
| C727 | 4010000100 | Ceramic | DD104 SL 080D 50V |
| C728 | 4010000070 | Ceramic | DD104 SL 050C 50V |
| C729 | 4530000350 | Capacitor Array | B8ZC0111-32N |
| C730 | 4530000350 | Capacitor Array | B8ZC0111-32N |
| C731 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C732 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C734 | 4010000390 | Ceramic | DD107 SL 271J 50V |
| C735 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C736 | 4040000330 | Barrier Layer | UAT 05V 332K |
| C737 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C738 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C739 | 4010000500 | Ceramic | DD104 B 102K 50V |

[RF UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|--------------|-------------------|
| C740 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C741 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C742 | 4010000500 | Ceramic | DD104 B 102K 50V |
| C743 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C744 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C745 | 4510001100 | Electrolytic | 16 MS7 10 μF |
| C746 | 4510002850 | Electrolytic | 25 SS 22 μF |
| C747 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C748 | 4510002860 | Electrolytic | 25 SS 33 μF |
| C749 | 4010000320 | Ceramic | DD104 SL 820J 50V |
| C750 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C751 | 4010000160 | Ceramic | DD104 SL 180J 50V |
| C752 | 4010000280 | Ceramic | DD104 SL 560J 50V |
| EP601 | 0910022312 | P.C. Board | B 2075B |

[PA TR UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|--------------|-----------------|
| Q801 | 1530000790 | Transistor | 2SC1971 |
| Q802 | 1530000190 | Transistor | 2SC3133 |
| Q803 | 1530000190 | Transistor | 2SC3133 |
| Q804 | 1530000200 | Transistor | 2SC2904 |
| Q805 | 1530000200 | Transistor | 2SC2904 |
| Q806 | 1540000060 | Transistor | 2SD880-Y |
| Q807 | 1530000070 | Transistor | 2SC2120-Y |
| D801 | 1790000010 | Diode | MV5 |
| D802 | 1790000010 | Diode | MV5 |
| D803 | 1710000350 | Diode | 1N4002 |
| D804 | 1790000010 | Diode | MV5 |
| L801 | 6140001170 | Coil | LR-142 |
| L804 | 6140001180 | Coil | LR-143 |
| L805 | 6910000670 | Coil | BT01RN1-A61-001 |
| L806 | 6910000670 | Coil | BT01RN1-A61-001 |
| L807 | 6910000670 | Coil | BT01RN1-A61-001 |
| L808 | 6910000670 | Coil | BT01RN1-A61-001 |
| L809 | 6140000610 | Coil | LR-83 |
| L810 | 6140001230 | Coil | LR-148 |
| L811 | 6140001210 | Coil | LR-146 |
| L812 | 6180001100 | Coil | FL 4H 100K |
| L813 | 6910000670 | Coil | BT01RN1-A61-001 |
| L814 | 6170000110 | Coil | LW-12A |
| L815 | 6910000670 | Coil | BT01RN1-A61-001 |
| L816 | 6910000600 | Ferrite Bead | FSOH050RN |
| L817 | 6910000600 | Ferrite Bead | FSOH050RN |
| L819 | 6180001120 | Coil | FL 5H 101K |
| L821 | 6910000670 | Coil | BT01RN1-A61-001 |
| R801 | 7010001020 | Resistor | R25J 82 Ω |
| R802 | 7010001060 | Resistor | R25J 180 Ω |
| R803 | 7010001110 | Resistor | R25J 470 Ω |
| R804 | 7010000850 | Resistor | R25J 3.3 Ω |
| R805 | 7010000100 | Resistor | ELR25J 5.6 Ω |
| R806 | 7010004720 | Resistor | R50XJ 100 Ω |
| R807 | 7010000210 | Resistor | ELR25J 47 Ω |
| R808 | 7010000210 | Resistor | ELR25J 47 Ω |
| R809 | 7010004720 | Resistor | R50XJ 100 Ω |
| R810 | 7080000650 | Resistor | RSS1P 3R3 Ω |
| R811 | 7080000650 | Resistor | RSS1P 3R3 Ω |
| R812 | 7080000650 | Resistor | RSS1P 3R3 Ω |
| R813 | 7080000650 | Resistor | RSS1P 3R3 Ω |
| R814 | 7010004650 | Resistor | R50XJ 10 Ω |
| R815 | 7010004650 | Resistor | R50XJ 10 Ω |

[PA TR UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|---------------|--------------------------|
| R816 | 7080000010 | Resistor | RSS1P 2R2 Ω |
| R817 | 7080000010 | Resistor | RSS1P 2R2 Ω |
| R818 | 7010001340 | Resistor | R25J 33 kΩ |
| R822 | 7070000250 | Resistor | CRH200 R-02J 4.7 Ω (4R7) |
| R823 | 7310000710 | Trimmer | RH0651C13J1YA (102) |
| R824 | 7010001050 | Resistor | R25J 150 Ω |
| R826 | 7010000500 | Resistor | ELR25J 10 kΩ |
| R827 | 7310003140 | Trimmer | RH0621CN2J (331) |
| R828 | 7010004700 | Resistor | R50XJ 68 Ω |
| R829 | 7010000130 | Resistor | ELR25J 10 Ω |
| R831 | 7010000170 | Resistor | ELR25J 22 Ω |
| R832 | 7010004720 | Resistor | R50XJ 100 Ω |
| R833 | 7010000410 | Resistor | ELR25J 2.2 kΩ |
| R834 | 7010004730 | Resistor | R50XJ 120 Ω |
| R835 | 7080000650 | Resistor | RSS1P 3R3 Ω |
| R836 | 7080000650 | Resistor | RSS1P 3R3 Ω |
| R837 | 7010001060 | Resistor | R25J 180 Ω |
| C801 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C803 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C804 | 4310000020 | Mylar | F2D 50V 103K |
| C805 | 4310000020 | Mylar | F2D 50V 103K |
| C806 | 4010000410 | Ceramic | DD107 SL 331J 50V |
| C808 | 4030001370 | Ceramic | GR44 CH 682K |
| C809 | 4030001370 | Ceramic | GR44 CH 682K |
| C810 | 4320000270 | Dip Mica | DM20C 102J5 |
| C811 | 4030001330 | Ceramic | GR43 CH 471K |
| C812 | 4030001330 | Ceramic | GR43 CH 471K |
| C813 | 4030001340 | Ceramic | GR44 CH 102K |
| C814 | 4320000290 | Dip Mica | DM20C 152J5 |
| C816 | 4320000340 | Dip Mica | DM20C 472J5 |
| C817 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C818 | 4510002820 | Electrolytic | 16 SS 1000 μF |
| C819 | 4030001420 | Ceramic | GR44 Y5V 684Z |
| C820 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C821 | 4510002840 | Electrolytic | 25 SS 47 μF |
| C822 | 4510002840 | Electrolytic | 25 SS 10 μF |
| C823 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C824 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C825 | 4510002900 | Electrolytic | 25 SS 470 μF |
| C826 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C827 | 4510002840 | Electrolytic | 25 SS 10 μF |
| C828 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C829 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C830 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C831 | 4040000260 | Barrier Layer | UZE 08X 104M |
| C832 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C833 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C834 | 4010004100 | Ceramic | DD14 SL 331K 500V |
| C835 | 4010004100 | Ceramic | DD14 SL 331K 500V |
| C836 | 4010000820 | Ceramic | DD105 CH 330J 50V |
| C837 | 4040000110 | Barrier Layer | UAT 04X 222K |
| C838 | 4510002820 | Electrolytic | 16 SS 1000 μF |
| C839 | 4030001330 | Ceramic | GR43 CH 471K |
| C840 | 4030001330 | Ceramic | GR43 CH 471K |
| C841 | 4030001340 | Ceramic | GR44 CH 102K |
| C842 | 4010000460 | Ceramic | DD104 B 471K 50V |
| S801 | 6910000060 | Thermostat | OHD-3 90M |
| S802 | 6910000050 | Thermostat | OHD-3 50M |
| MF801 | 2710000050 | Fan Motor | M6B12U22 |
| EP801 | 0910007051 | P.C. Board | B 887A |
| EP804 | 6510003080 | RT Pin | RT01T-1.0B |
| EP805 | 6510003080 | RT Pin | RT01T-1.0B |
| EP807 | 6910000970 | Ferrite Bead | DL 20P 2.6-3-1.2H |
| EP871 | 6910000640 | Ferrite Bead | FSOH090RN |
| EP872 | 6910000640 | Ferrite Bead | FSOH090RN |
| EP881 | 6910000630 | Ferrite Bead | FSOH070RN |

[PA PARTS]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|---------------|------------------|
| D872 | 1710000010 | Diode | 15CD11 |
| D873 | 1710000010 | Diode | 15CD11 |
| R871 | 7100000510 | Resistor | CP-5AJ 0.012 Ω |
| R872 | 7010001150 | Resistor | R25J 1 kΩ |
| R873 | 7010001150 | Resistor | R25J 1 kΩ |
| C871 | 4050000140 | Feed through | TF318-450E102GMV |
| C872 | 4050000140 | Feed through | TF318-450E102GMV |
| C873 | 4050000140 | Feed through | TF318-450E102GMV |
| C874 | 4050000140 | Feed through | TF318-450E102GMV |
| C875 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C876 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C877 | 4510003650 | Electrolytic | 25 SS 2200 μF |
| C878 | 4040000250 | Barrier Layer | UAT 08X 473M |
| F872 | 5210000060 | Fuse | FGB 5A |
| EP873 | 6910000640 | Ferrite Bead | FSOH090RN |
| EP874 | 6510000430 | Terminal | ML-3182 4P |

[FILTER UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|-------------|---------------|
| D1501 | 1710000350 | Diode | 1N4002 |
| D1502 | 1710000350 | Diode | 1N4002 |
| D1503 | 1710000350 | Diode | 1N4002 |
| D1504 | 1710000350 | Diode | 1N4002 |
| D1505 | 1710000350 | Diode | 1N4002 |
| D1506 | 1710000350 | Diode | 1N4002 |
| D1507 | 1710000350 | Diode | 1N4002 |
| D1508 | 1710000330 | Diode | 1K60 |
| D1509 | 1710000330 | Diode | 1K60 |
| D1510 | 1710000350 | Diode | 1N4002 |
| L1501 | 6140000310 | Coil | LR-51 |
| L1502 | 6140000300 | Coil | LR-50 |
| L1503 | 6140000290 | Coil | LR-49 |
| L1504 | 6140001160 | Coil | LR-141 |
| L1505 | 6140001130 | Coil | LR-138 |
| L1506 | 6140001130 | Coil | LR-138 |
| L1507 | 6140001150 | Coil | LR-140 |
| L1508 | 6140001240 | Coil | LR-149 |
| L1509 | 6140001240 | Coil | LR-149 |
| L1510 | 6140000330 | Coil | LR-53 |
| L1511 | 6140001150 | Coil | LR-140 |
| L1512 | 6140001150 | Coil | LR-140 |
| L1513 | 6140000340 | Coil | LR-54 |
| L1514 | 6140000690 | Coil | LR-91 |
| L1515 | 6140000690 | Coil | LR-91 |
| L1516 | 6140000350 | Coil | LR-55 |
| L1517 | 6140000360 | Coil | LR-56 |
| L1518 | 6140000360 | Coil | LR-56 |
| L1519 | 6110001280 | Coil | LA-168 |
| L1520 | 6180000450 | Coil | RFC L6 222K |
| L1521 | 6140000100 | Coil | LR-22A |
| L1522 | 6180000990 | Coil | LAL 04NA 101K |
| L1523 | 6180000990 | Coil | LAL 04NA 101K |
| L1524 | 6180000990 | Coil | LAL 04NA 101K |
| L1525 | 6180000990 | Coil | LAL 04NA 101K |
| L1526 | 6180000990 | Coil | LAL 04NA 101K |
| L1527 | 6180000990 | Coil | LAL 04NA 101K |
| L1528 | 6180000990 | Coil | LAL 04NA 101K |
| L1529 | 6180000990 | Coil | LAL 04NA 101K |

[FILTER UNIT]

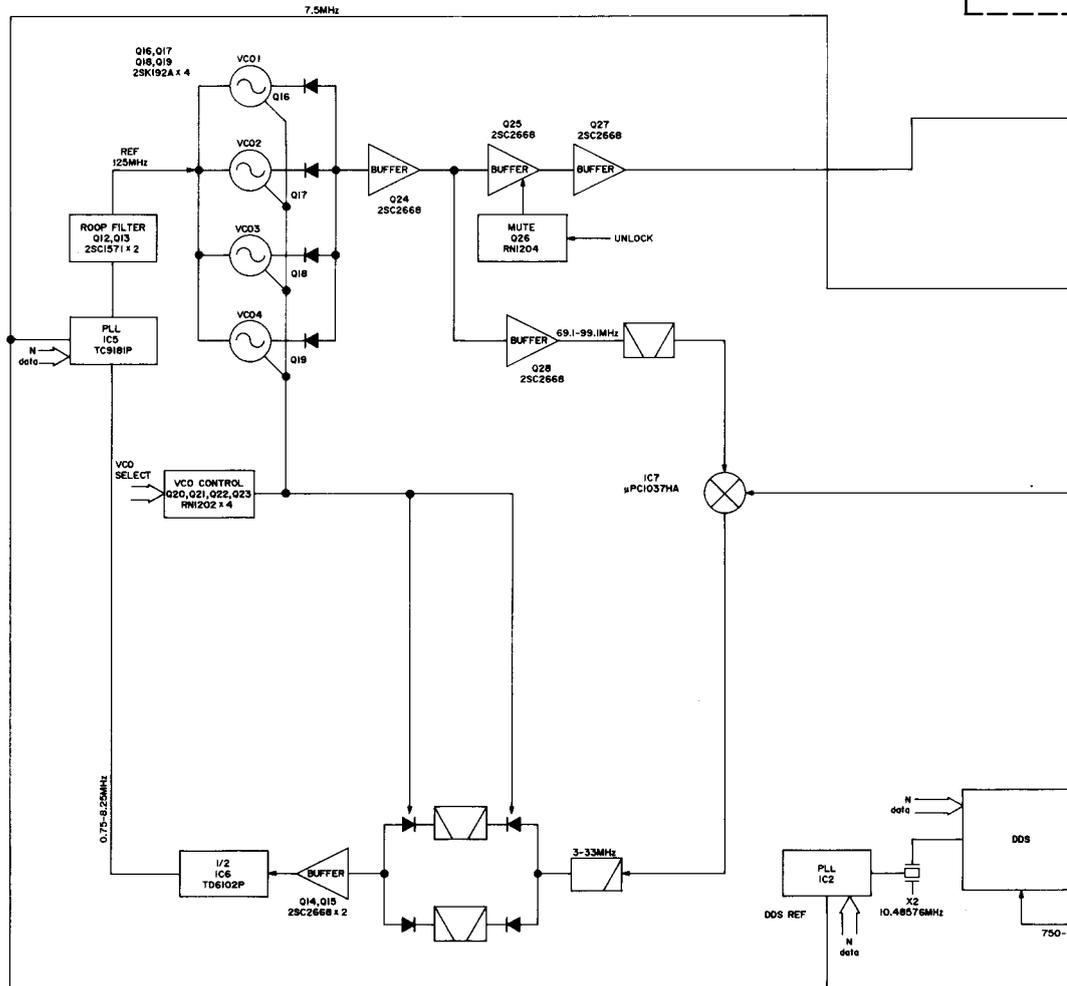
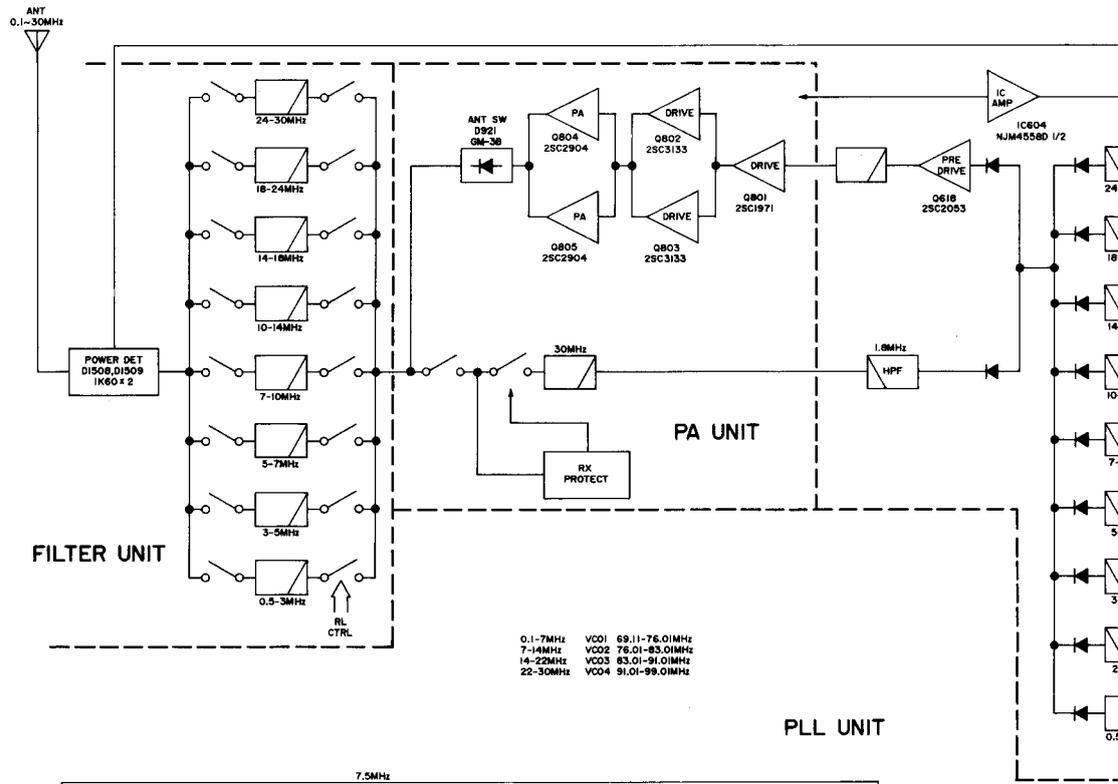
| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|---------------|-------------------|
| L1530 | 6180001220 | Coil | LAL 04NA 100K |
| L1531 | 6180001220 | Coil | LAL 04NA 100K |
| L1532 | 6180001220 | Coil | LAL 04NA 100K |
| L1533 | 6180001220 | Coil | LAL 04NA 100K |
| L1534 | 6180001220 | Coil | LAL 04NA 100K |
| L1535 | 6180001220 | Coil | LAL 04NA 100K |
| L1536 | 6110001490 | Coil | LA-196 |
| L1537 | 6110001500 | Coil | LA-197 |
| L1538 | 6180001220 | Coil | LAL 04NA 100K |
| L1539 | 6180001220 | Coil | LAL 04NA 100K |
| R1501 | 7010004700 | Resistor | R50XJ 68 Ω |
| R1502 | 7010004370 | Resistor | R20J 22 kΩ |
| R1503 | 7010003660 | Resistor | ELR20J 100 kΩ |
| R1504 | 7010003580 | Resistor | ELR20J 22 kΩ |
| R1505 | 7010003620 | Resistor | ELR20J 47 kΩ |
| R1506 | 7010005000 | Resistor | R50XJ 4.7 kΩ |
| R1507 | 7010005000 | Resistor | R50XJ 4.7 kΩ |
| R1508 | 7010003780 | Resistor | ELR20J 1 MΩ |
| C1501 | 4320000290 | Dip Mica | DM20C 152J5 |
| C1502 | 4320000210 | Dip Mica | DM19C 561J5 |
| C1503 | 4320000290 | Dip Mica | DM20C 152J5 |
| C1504 | 4010004050 | Ceramic | DD12 SL 181K 500V |
| C1505 | 4320000280 | Dip Mica | DM20C 122J5 |
| C1506 | 4320000220 | Dip Mica | DM19C 681J5 |
| C1507 | 4010004050 | Ceramic | DD12 SL 181K 500V |
| C1508 | 4320000450 | Dip Mica | DM19C 821J5 |
| C1509 | 4010004030 | Ceramic | DD10 SL 121K 500V |
| C1510 | 4320000200 | Dip Mica | DM19C 471J5 |
| C1511 | 4320000200 | Dip Mica | DM19C 471J5 |
| C1512 | 4010004030 | Ceramic | DD10 SL 121K 500V |
| C1513 | 4320000210 | Dip Mica | DM19C 561J5 |
| C1514 | 4010003990 | Ceramic | DD09 SL 680K 500V |
| C1515 | 4010004090 | Ceramic | DD14 SL 301K 500V |
| C1516 | 4010004100 | Ceramic | DD14 SL 331K 500V |
| C1517 | 4010004020 | Ceramic | DD09 SL 111K 500V |
| C1518 | 4320000190 | Dip Mica | DM19C 391J5 |
| C1519 | 4010003980 | Ceramic | DD09 SL 560K 500V |
| C1520 | 4010004070 | Ceramic | DD12 SL 221K 500V |
| C1521 | 4010004080 | Ceramic | DD12 SL 271K 500V |
| C1522 | 4010003980 | Ceramic | DD09 SL 560K 500V |
| C1523 | 4010004100 | Ceramic | DD14 SL 331K 500V |
| C1524 | 4010003950 | Ceramic | DD06 SL 330K 500V |
| C1525 | 4010004050 | Ceramic | DD12 SL 181K 500V |
| C1526 | 4010004040 | Ceramic | DD10 SL 151K 500V |
| C1527 | 4010003910 | Ceramic | DD06 SL 220K 500V |
| C1528 | 4010004080 | Ceramic | DD12 SL 271K 500V |
| C1529 | 4010003980 | Ceramic | DD09 SL 560K 500V |
| C1530 | 4010004010 | Ceramic | DD09 SL 101K 500V |
| C1531 | 4010004010 | Ceramic | DD09 SL 101K 500V |
| C1532 | 4010003860 | Ceramic | DD06 SL 100D 500V |
| C1533 | 4010004060 | Ceramic | DD12 SL 201K 500V |
| C1534 | 4010003970 | Ceramic | DD07 SL 470K 500V |
| C1535 | 4010004010 | Ceramic | DD09 SL 101K 500V |
| C1536 | 4610000240 | Trimmer | ECV1ZW 20X40 |
| C1537 | 4010000380 | Ceramic | DD107 SL 221J 50V |
| C1538 | 4010000330 | Ceramic | DD105 SL 101J 50V |
| C1539 | 4010000330 | Ceramic | DD105 SL 101J 50V |
| C1540 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1541 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1542 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1543 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1544 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1545 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1546 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1547 | 4040000250 | Barrier Layer | UAT 08X 473M |
| C1548 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1549 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1550 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1551 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1552 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1553 | 4010000520 | Ceramic | DD108 B 472K 50V |

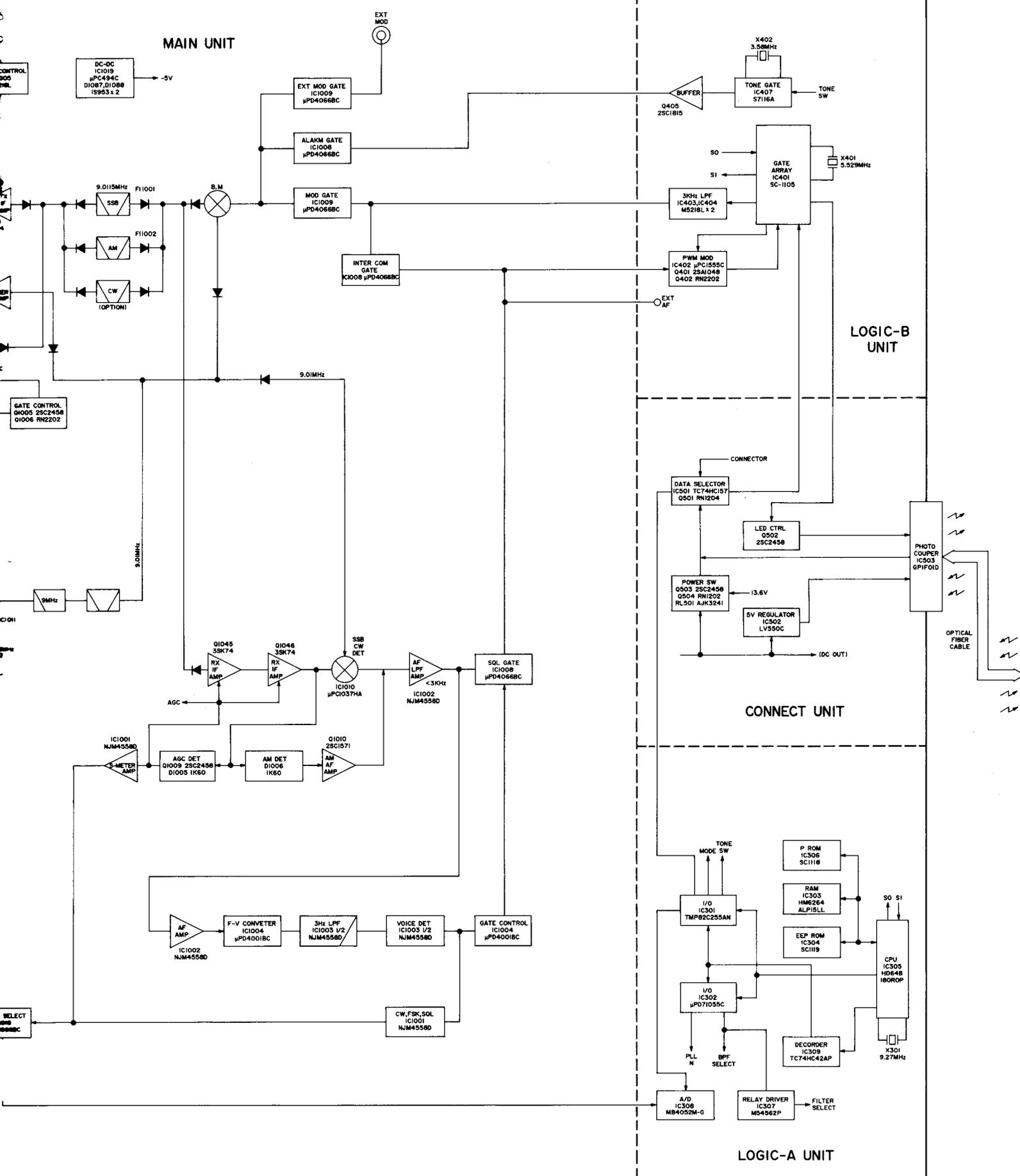
[FILTER UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | |
|----------|------------|---------------|-------------------|
| C1554 | 4320000450 | Dip Mica | DM19C 821J5 |
| C1555 | 4320000270 | Dip Mica | DM20C 102J5 |
| C1556 | 4010004080 | Ceramic | DD12 SL 271K 500V |
| C1557 | 4320000190 | Dip Mica | DM19C 391J5 |
| C1559 | 4010003980 | Ceramic | DD09 SL 560K 500V |
| C1560 | 4010004040 | Ceramic | DD10 SL 151K 500V |
| C1561 | 4010004010 | Ceramic | DD09 SL 101K 500V |
| C1562 | 4010003990 | Ceramic | DD09 SL 680K 500V |
| C1563 | 4010003960 | Ceramic | DD06 SL 390K 500V |
| C1564 | 4010004040 | Ceramic | DD10 SL 151K 500V |
| C1566 | 4010003870 | Ceramic | DD06 SL 120K 500V |
| C1567 | 4010004000 | Ceramic | DD09 SL 820K 500V |
| C1568 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1569 | 4010000520 | Ceramic | DD108 B 472K 50V |
| C1570 | 4010000590 | Ceramic | DD110 F 473Z 50V |
| C1571 | 4010000590 | Ceramic | DD110 F 473Z 50V |
| C1572 | 4510002840 | Electrolytic | 25 SS 10 μF |
| C1573 | 4040000250 | Barrier Layer | UAT 08X 473M |
| RL1501 | 6330000820 | Relay | AJK 3341 |
| RL1502 | 6330000820 | Relay | AJK 3341 |
| RL1503 | 6330000820 | Relay | AJK 3341 |
| RL1504 | 6330000820 | Relay | AJK 3341 |
| RL1505 | 6330000820 | Relay | AJK 3341 |
| RL1506 | 6330000820 | Relay | AJK 3341 |
| RL1507 | 6330000820 | Relay | AJK 3341 |
| RL1508 | 6330000820 | Relay | AJK 3341 |
| RL1509 | 6330000820 | Relay | AJK 3341 |
| RL1510 | 6330000820 | Relay | AJK 3341 |
| RL1511 | 6330000820 | Relay | AJK 3341 |
| RL1512 | 6330000820 | Relay | AJK 3341 |
| RL1513 | 6330000820 | Relay | AJK 3341 |
| RL1514 | 6330000820 | Relay | AJK 3341 |
| RL1515 | 6330000820 | Relay | AJK 3341 |
| RL1516 | 6330000820 | Relay | AJK 3341 |
| EP1501 | 0910022542 | P.C. Board | B 2077B |

SECTION 8 BLOCK DIAGRAMS

• TRANSCIVER

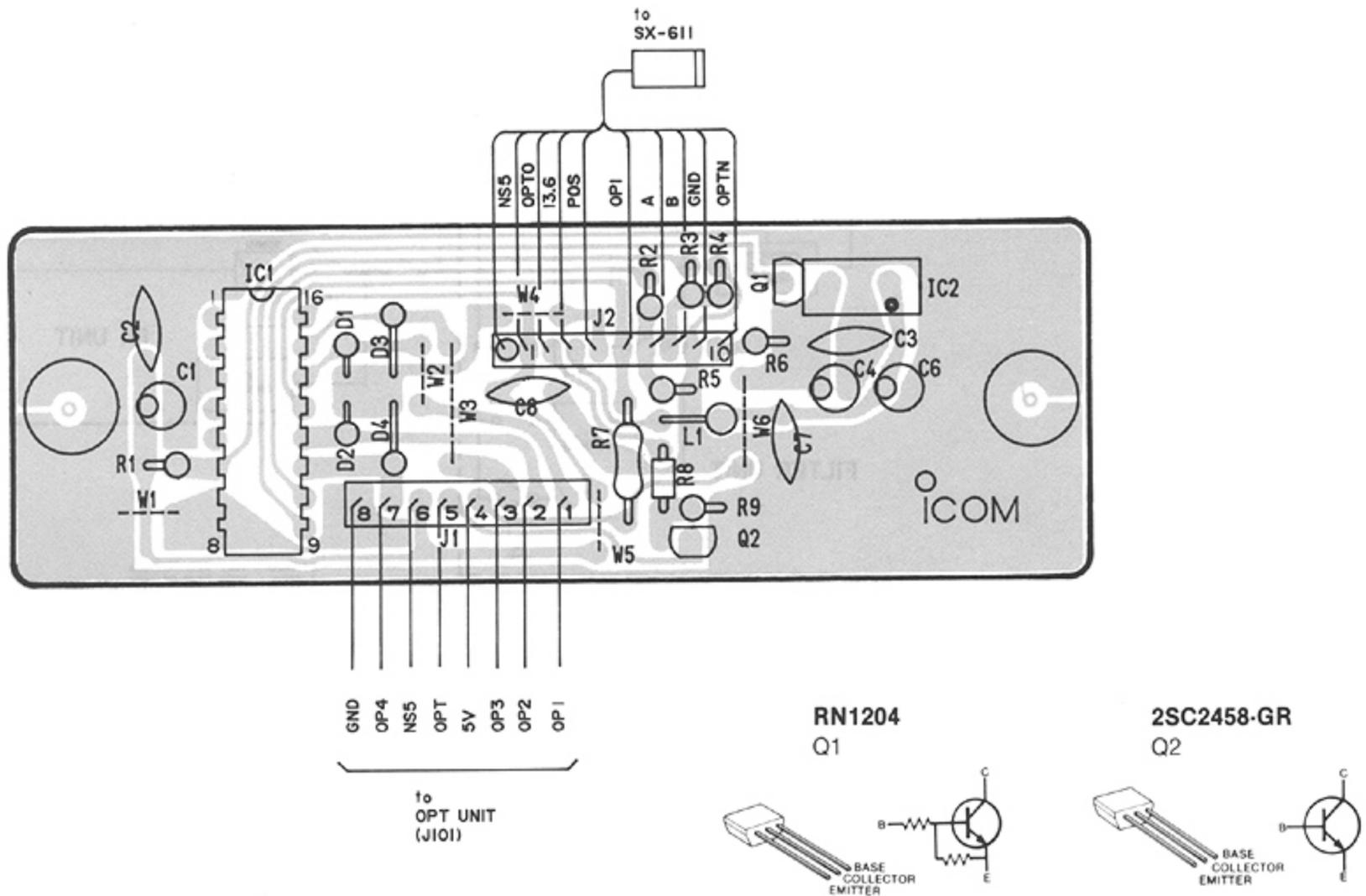




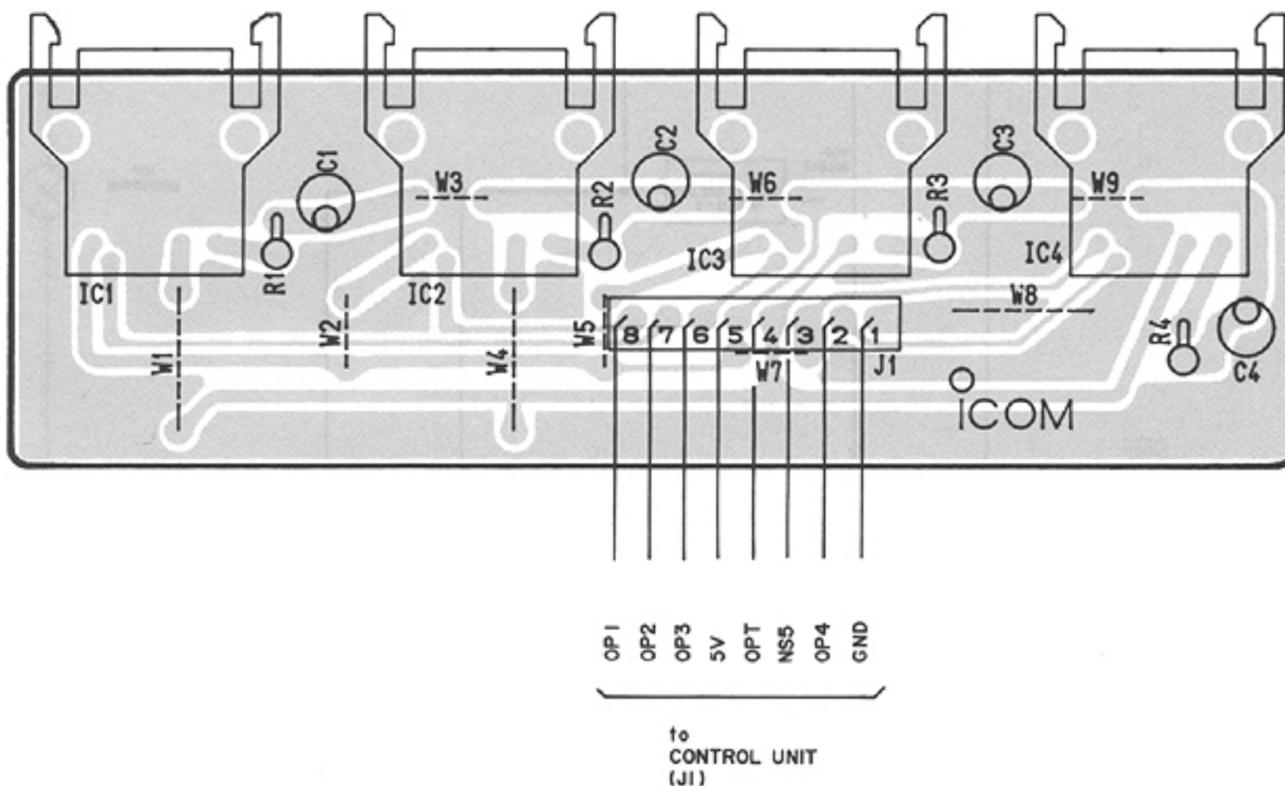
SECTION 9 EX-804 EXPANDER UNIT

9-1 BOARD LAYOUTS

• CONTROL UNIT

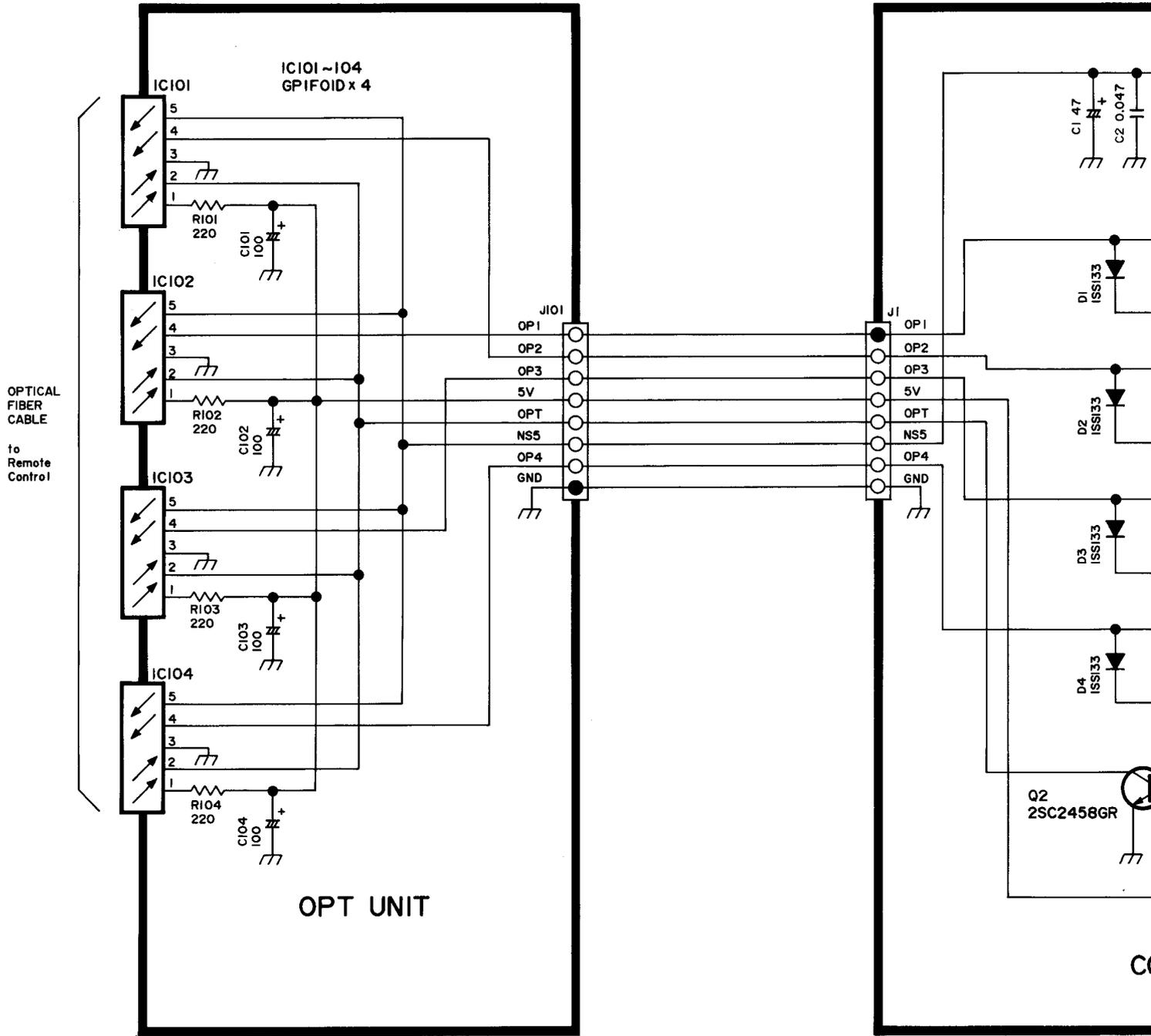


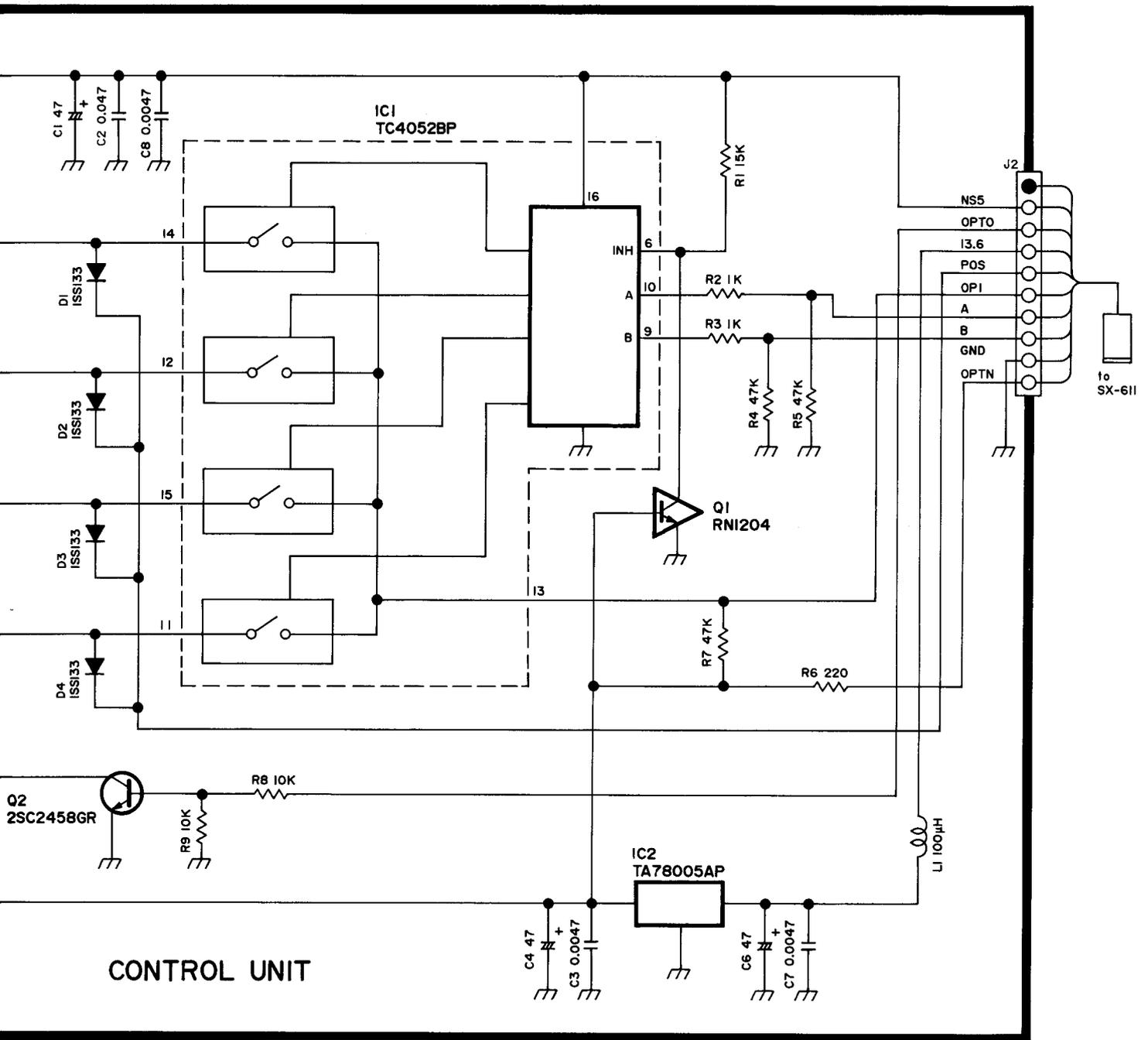
• OPT UNIT



NOTE: Add "100" to the indicated number on the unit for actual part number respectively.

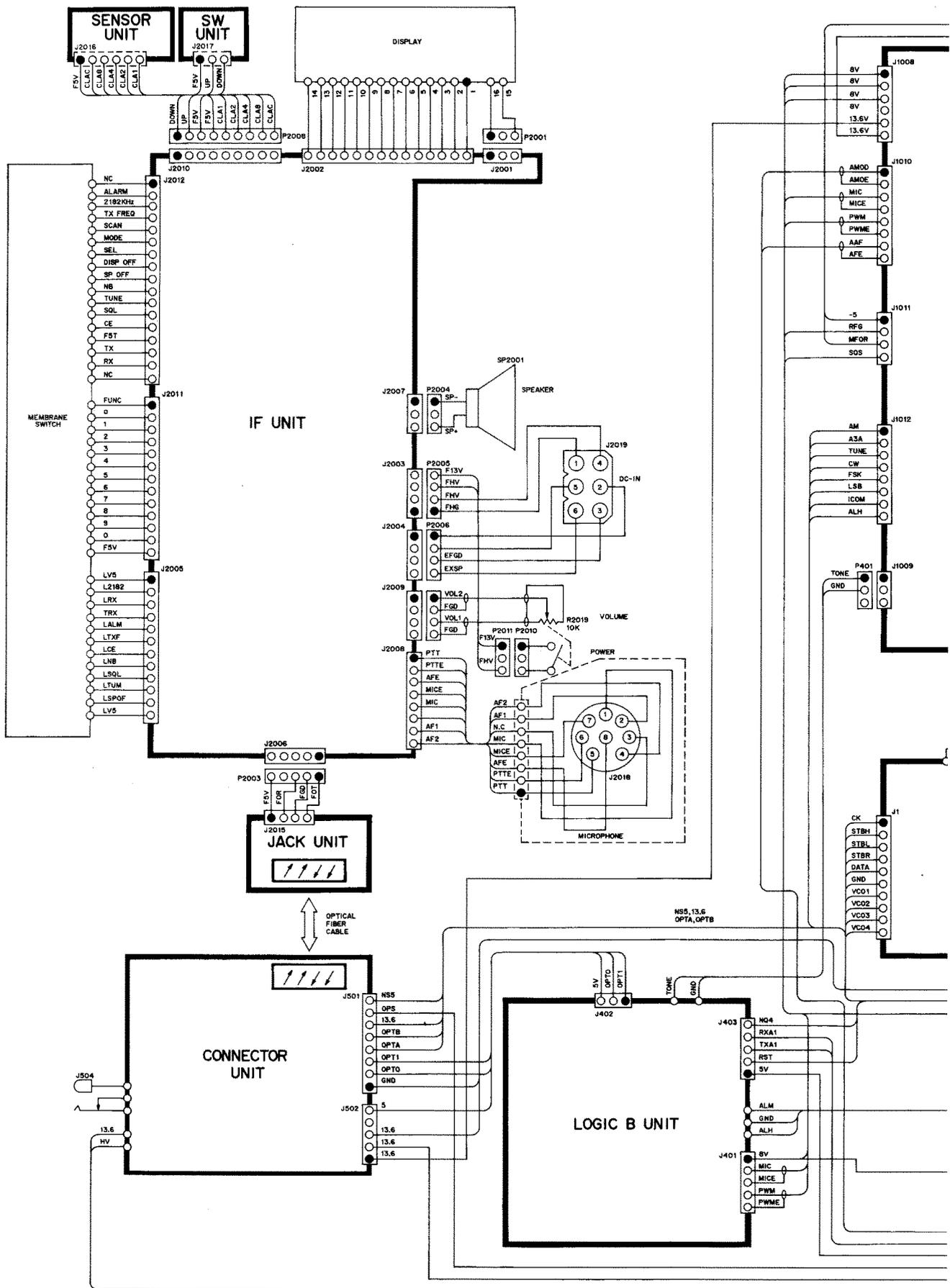
9-2 SCHEMATIC DIAGRAM

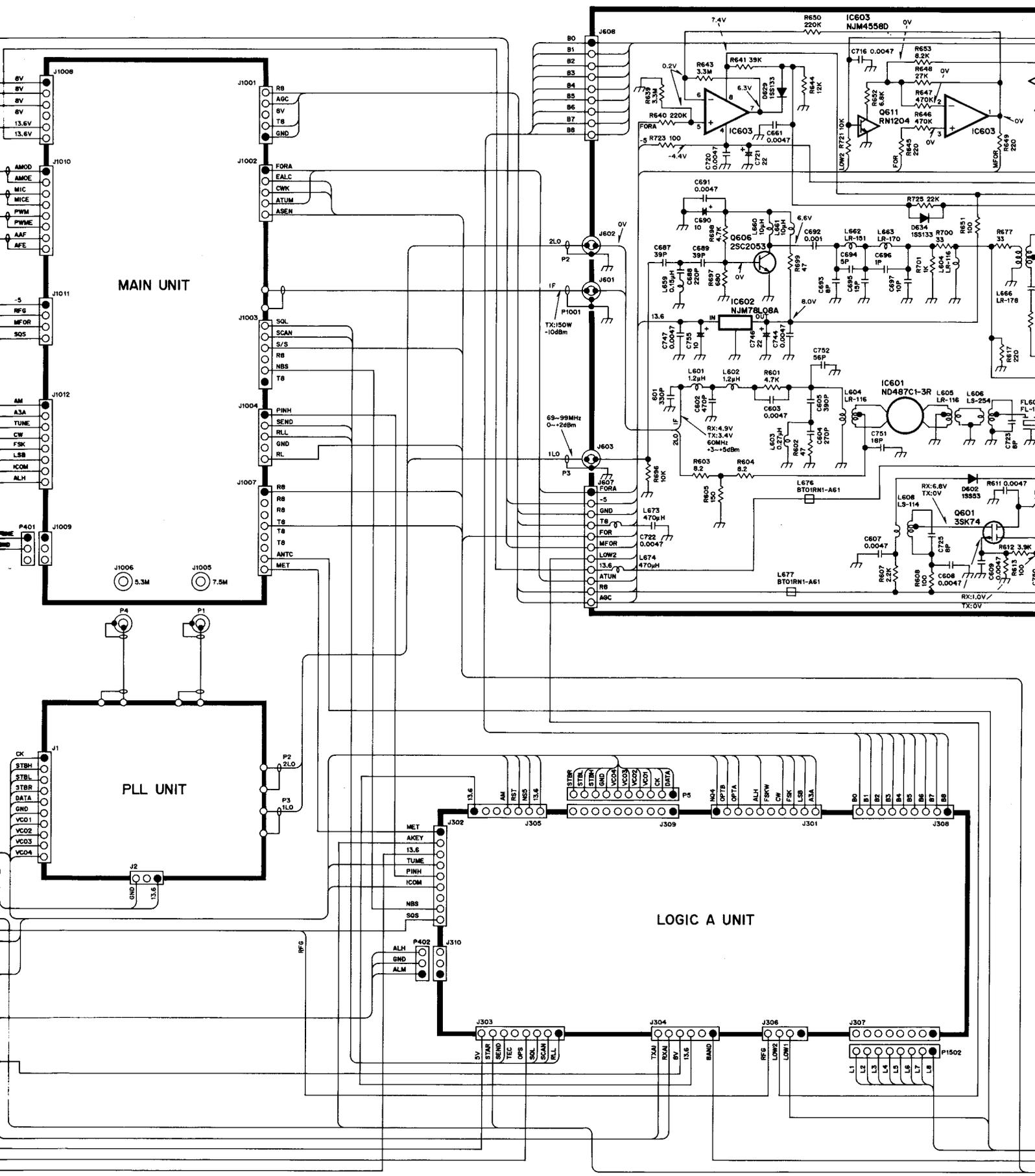




SECTION 10 VOLTAGE DIAGRAMS

10-1 CONNECTION

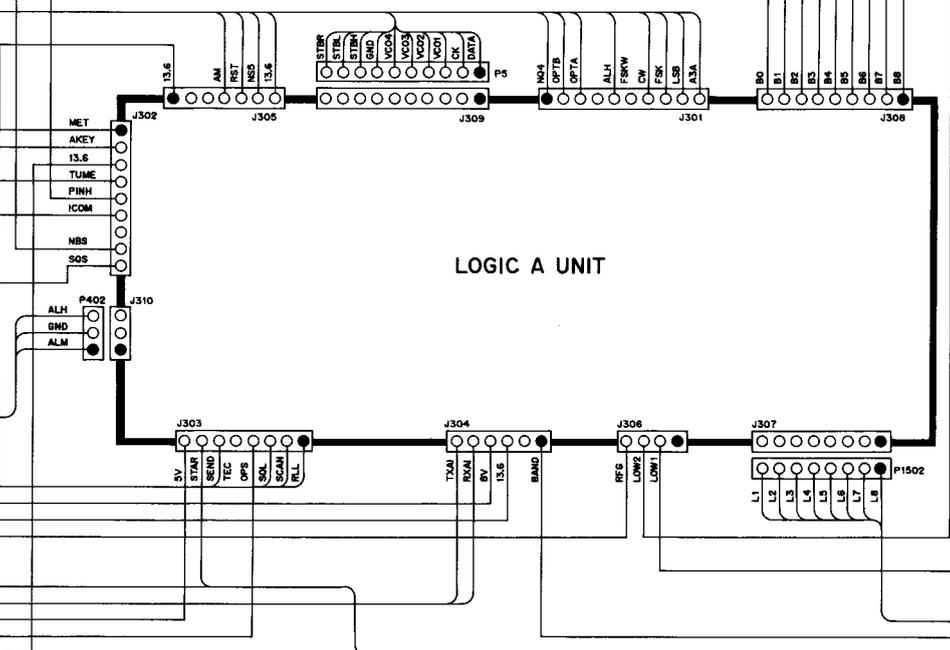
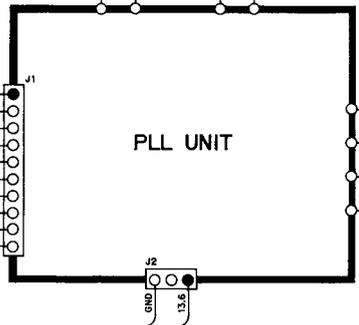
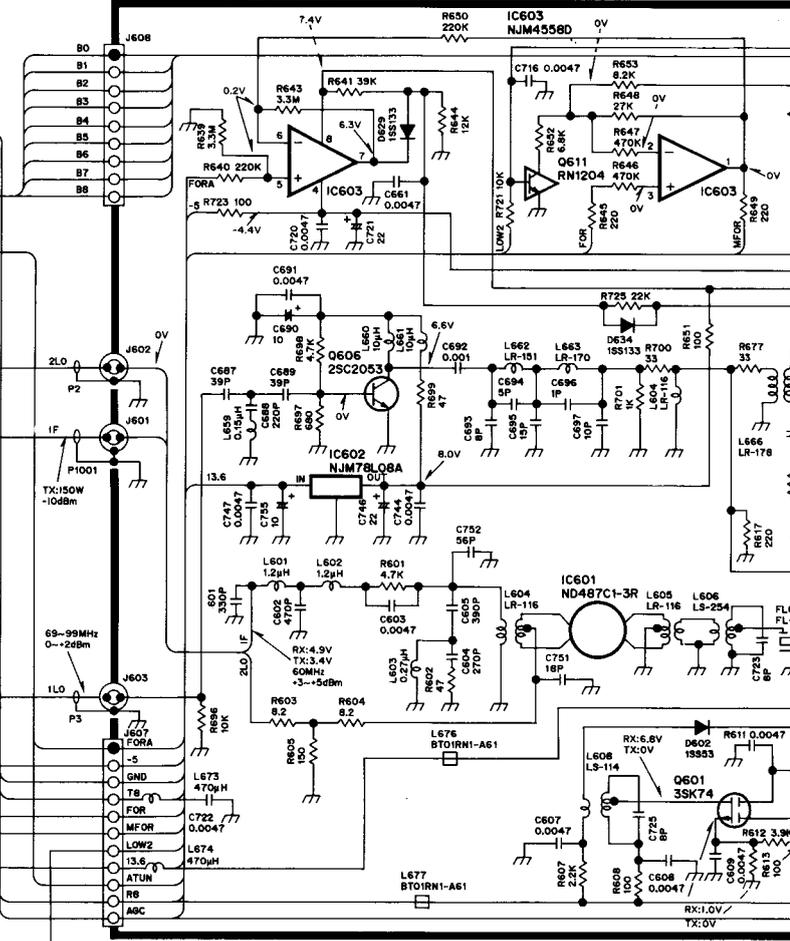
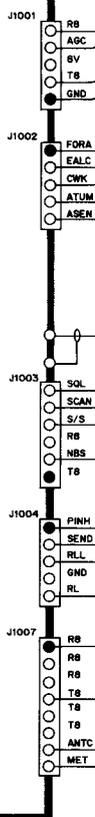
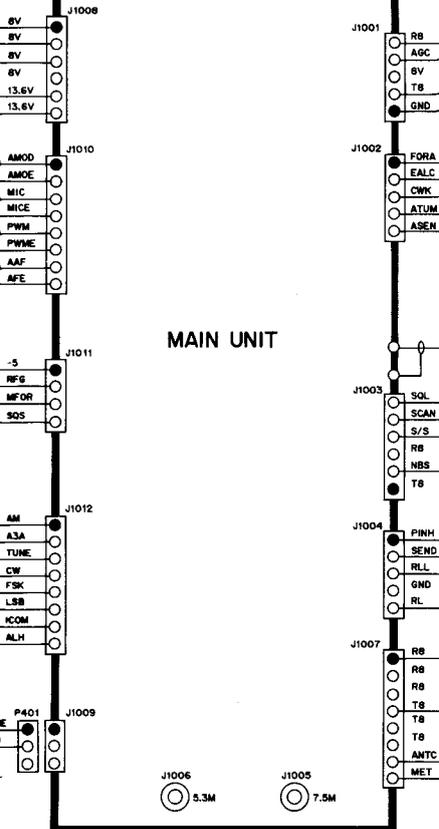


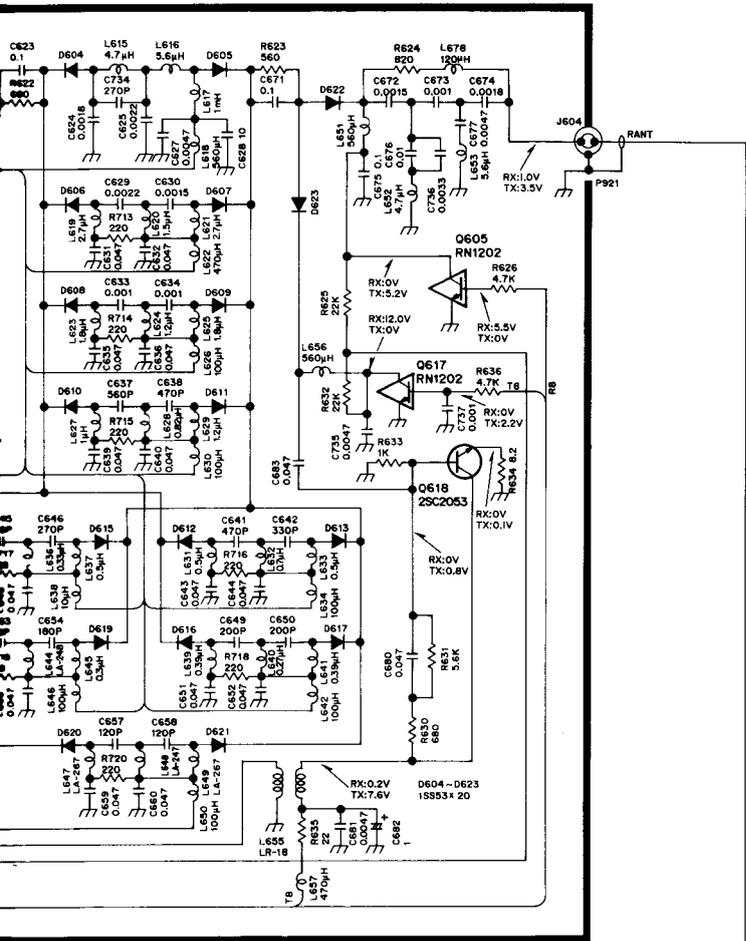


MAIN UNIT

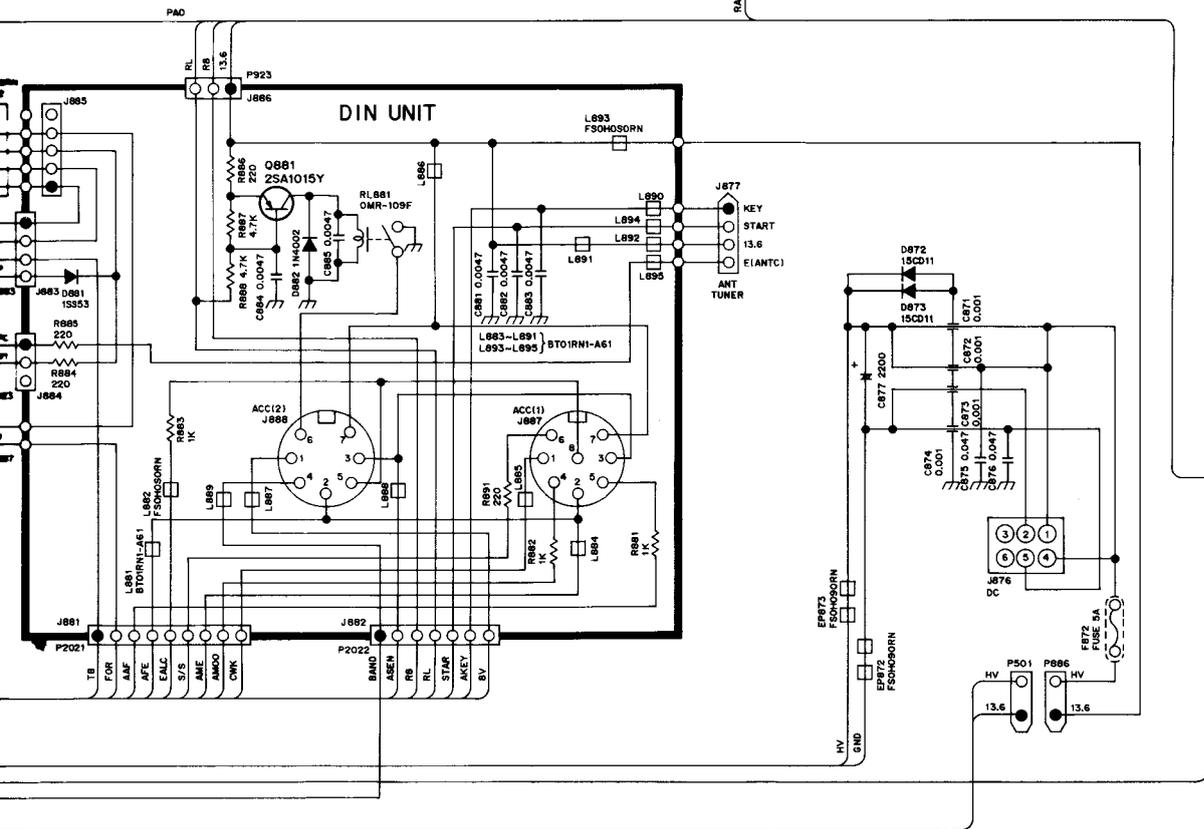
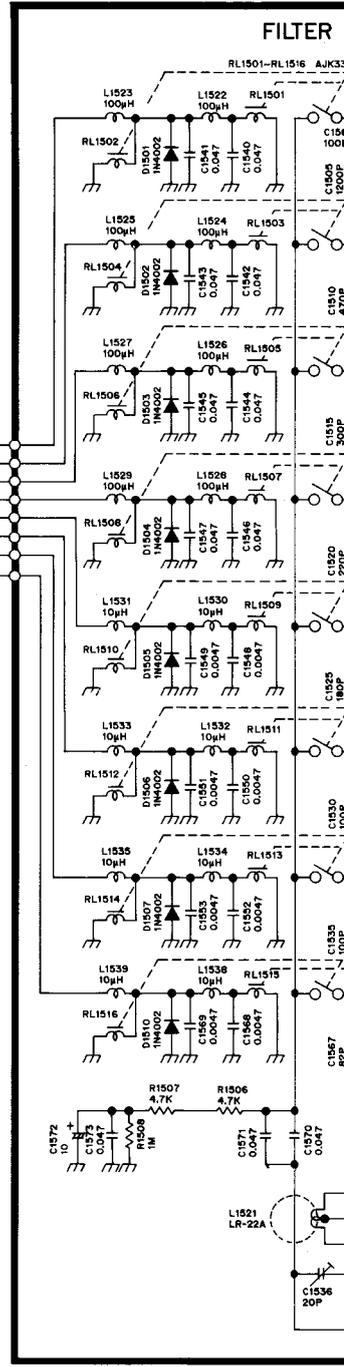
PLL UNIT

LOGIC A UNIT



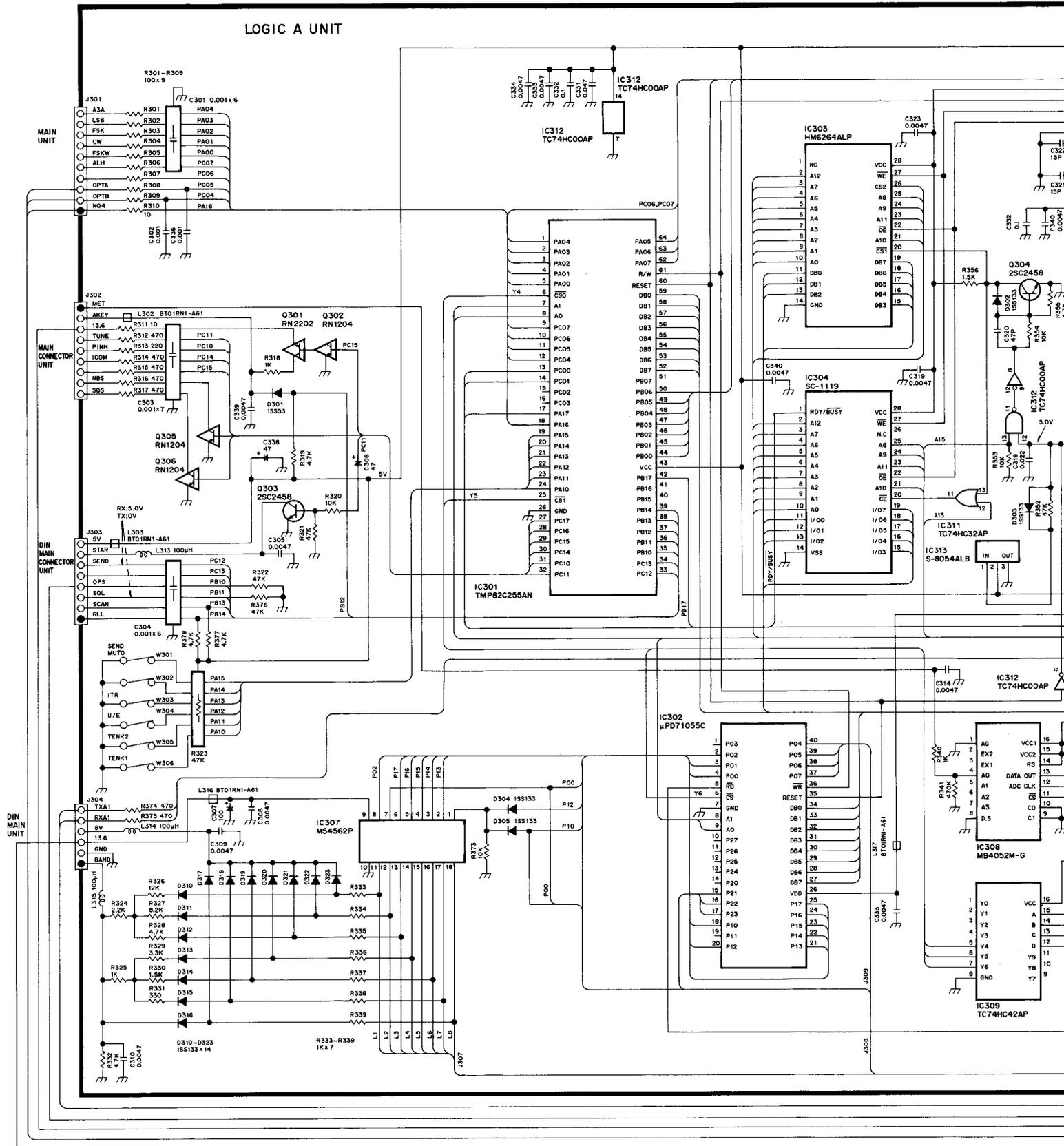


| 10.5V | |
|-------|--------------|
| L1 | 0.1-3.0MHz |
| L2 | 3.0-5.0MHz |
| L3 | 5.0-7.0MHz |
| L4 | 7.0-10.0MHz |
| L5 | 10.0-14.0MHz |
| L6 | 14.0-18.0MHz |
| L7 | 18.0-24.0MHz |
| L8 | 24.0-30.0MHz |

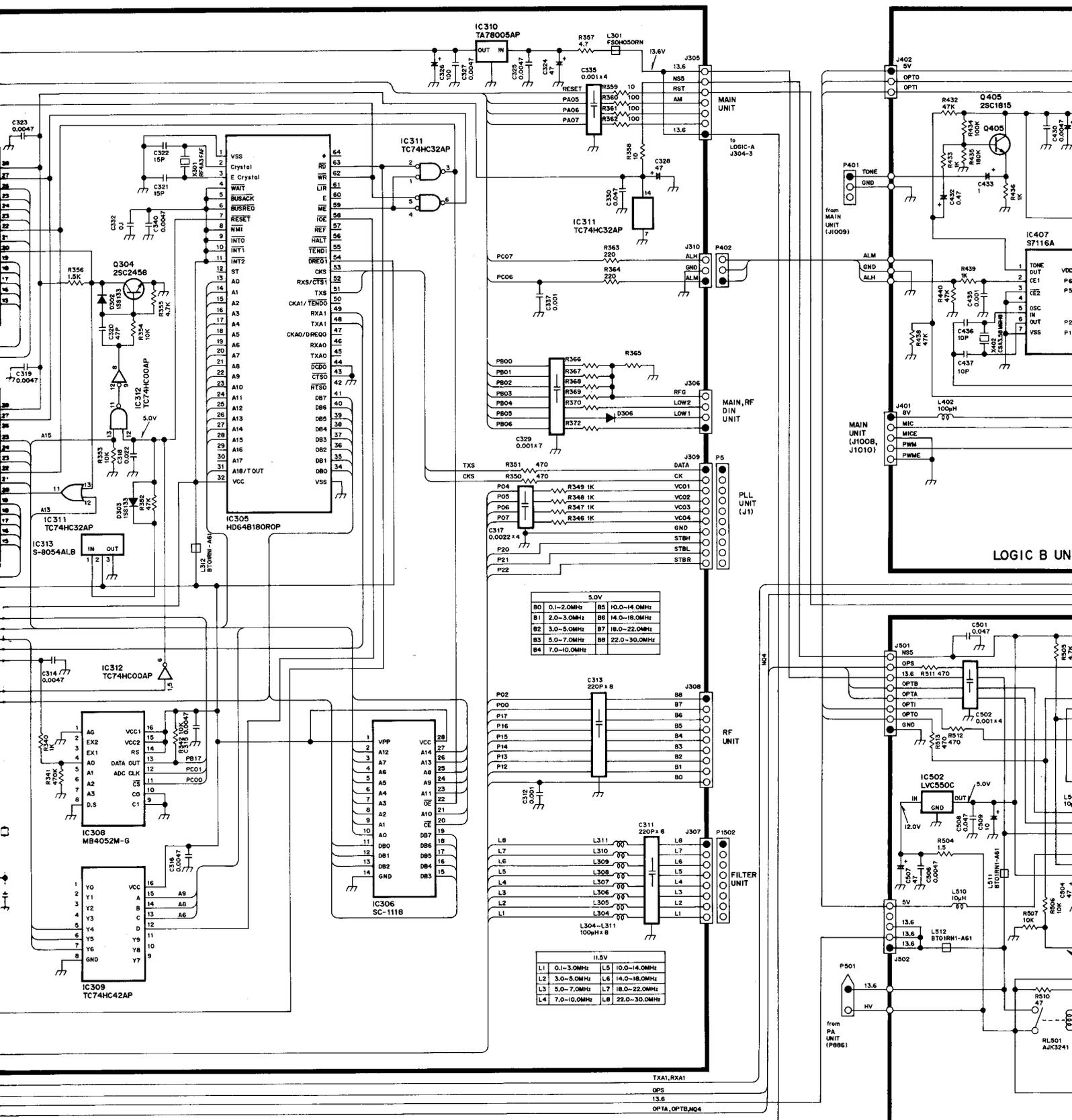


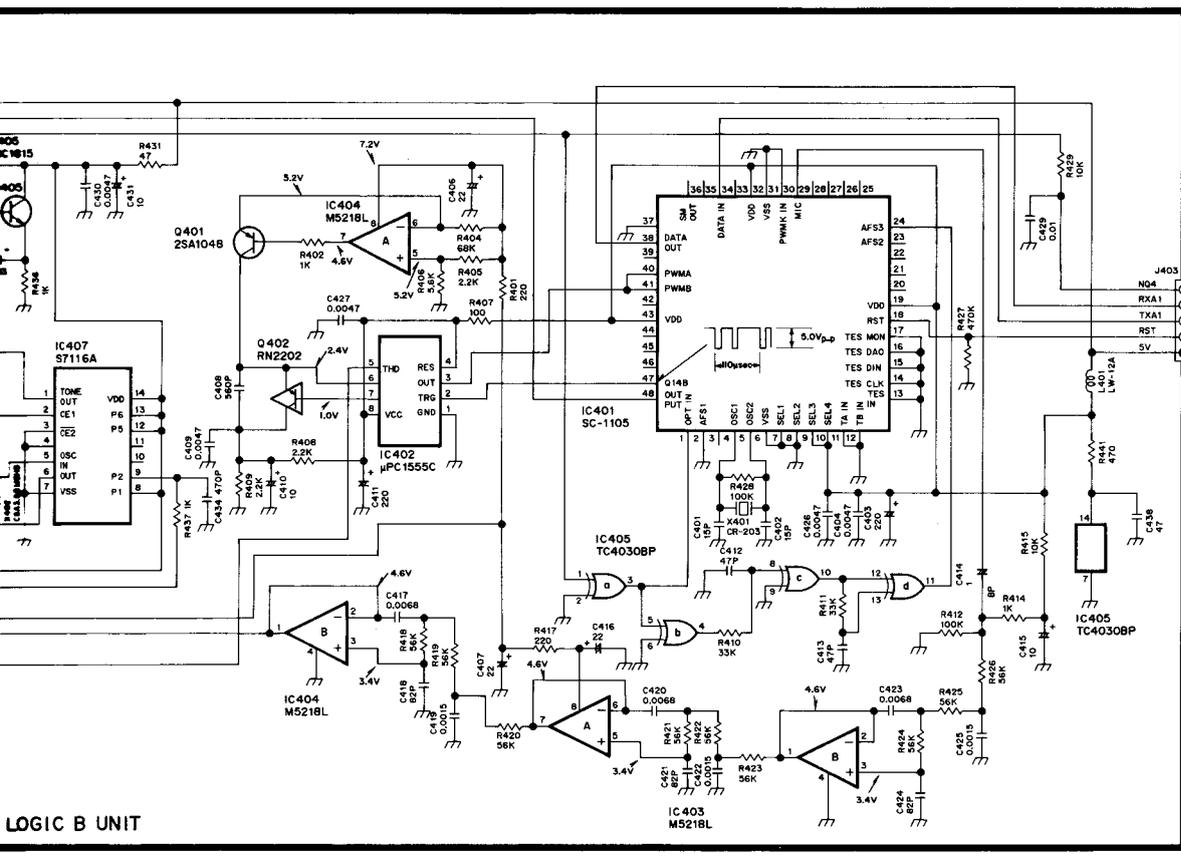
FOR REF

10-2 TRANSCEIVER (LOGIC A, B AND CONNECT UNITS) AND REMOTE CONTROLLER (IF,

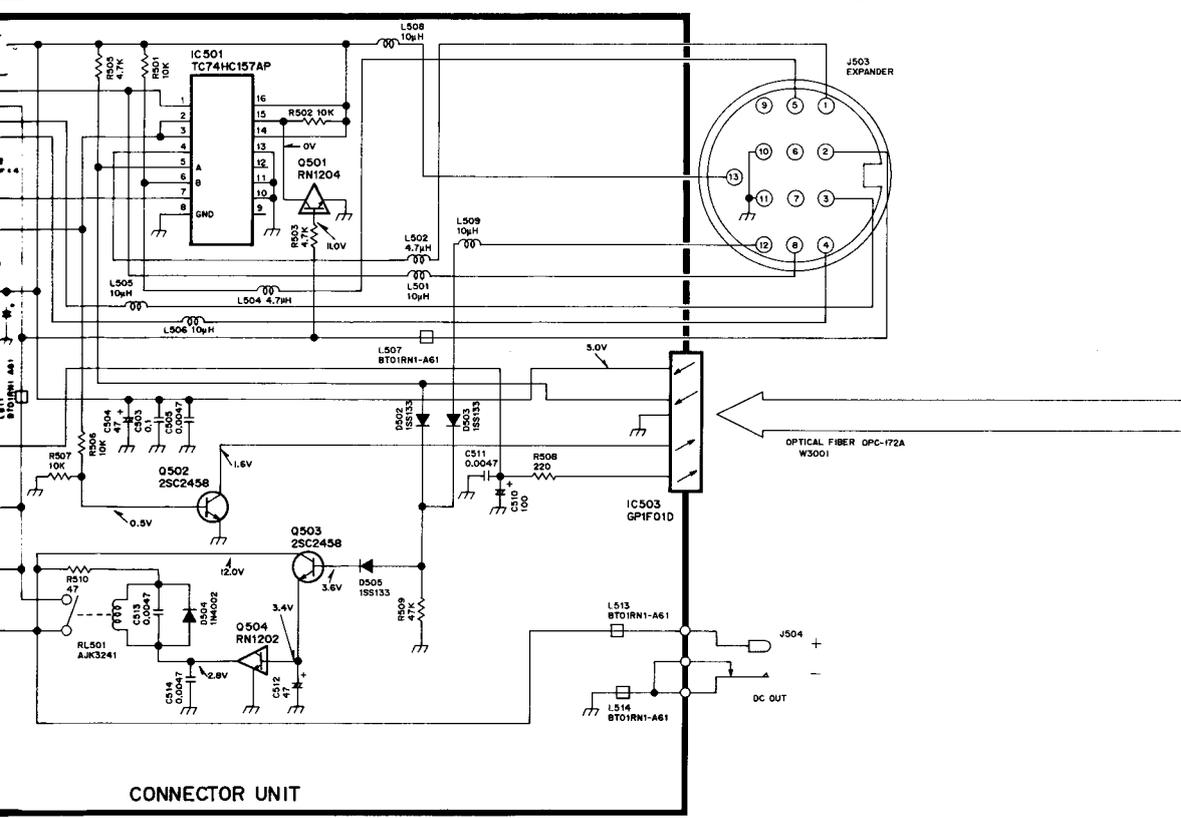


CONTROLLER (IF, JACK, SENSOR AND SW UNITS)

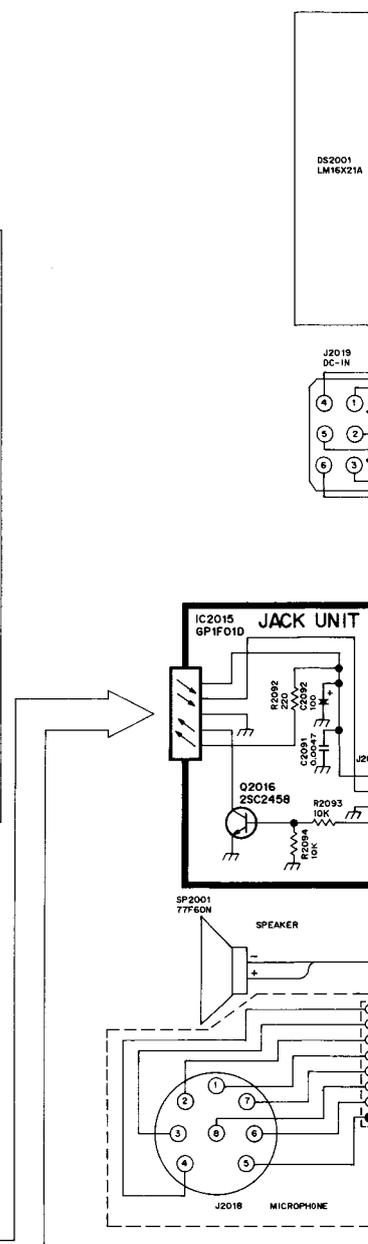




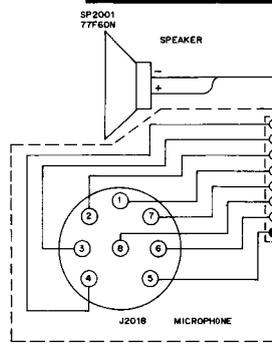
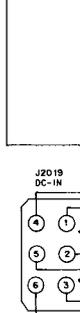
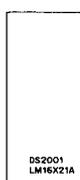
LOGIC B UNIT



CONNECTOR UNIT



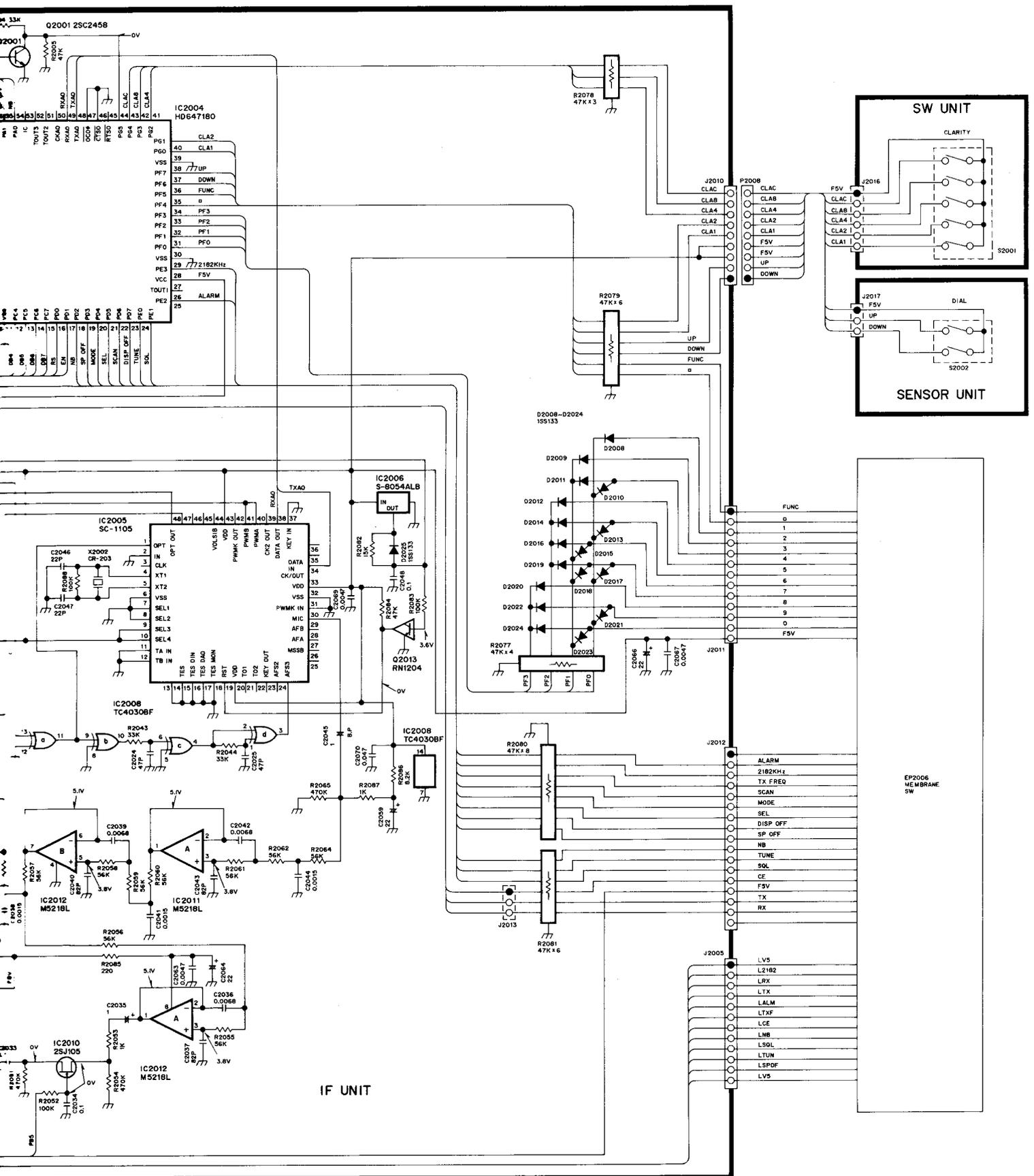
JACK UNIT



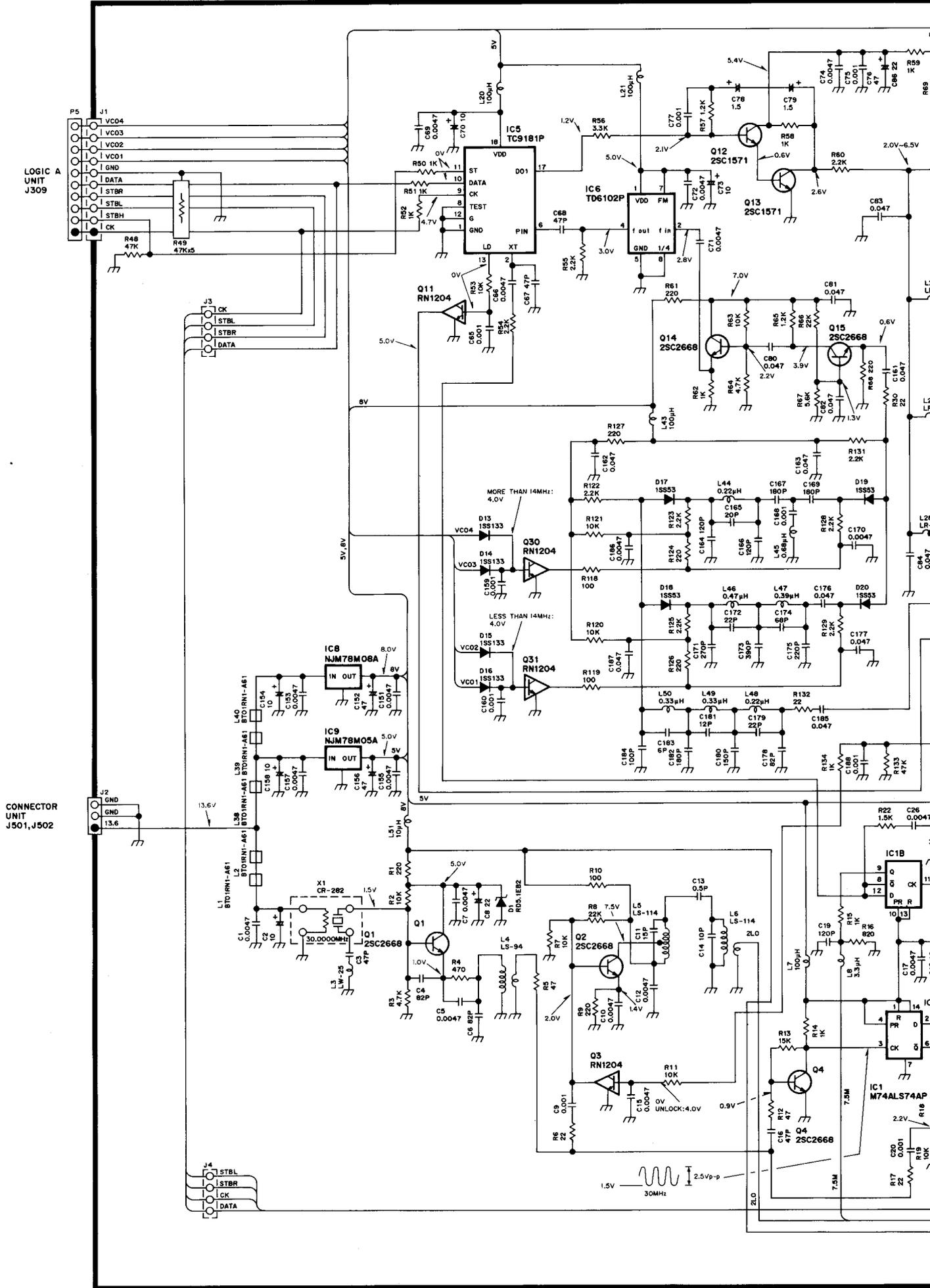
VOLUME R2091 10KA

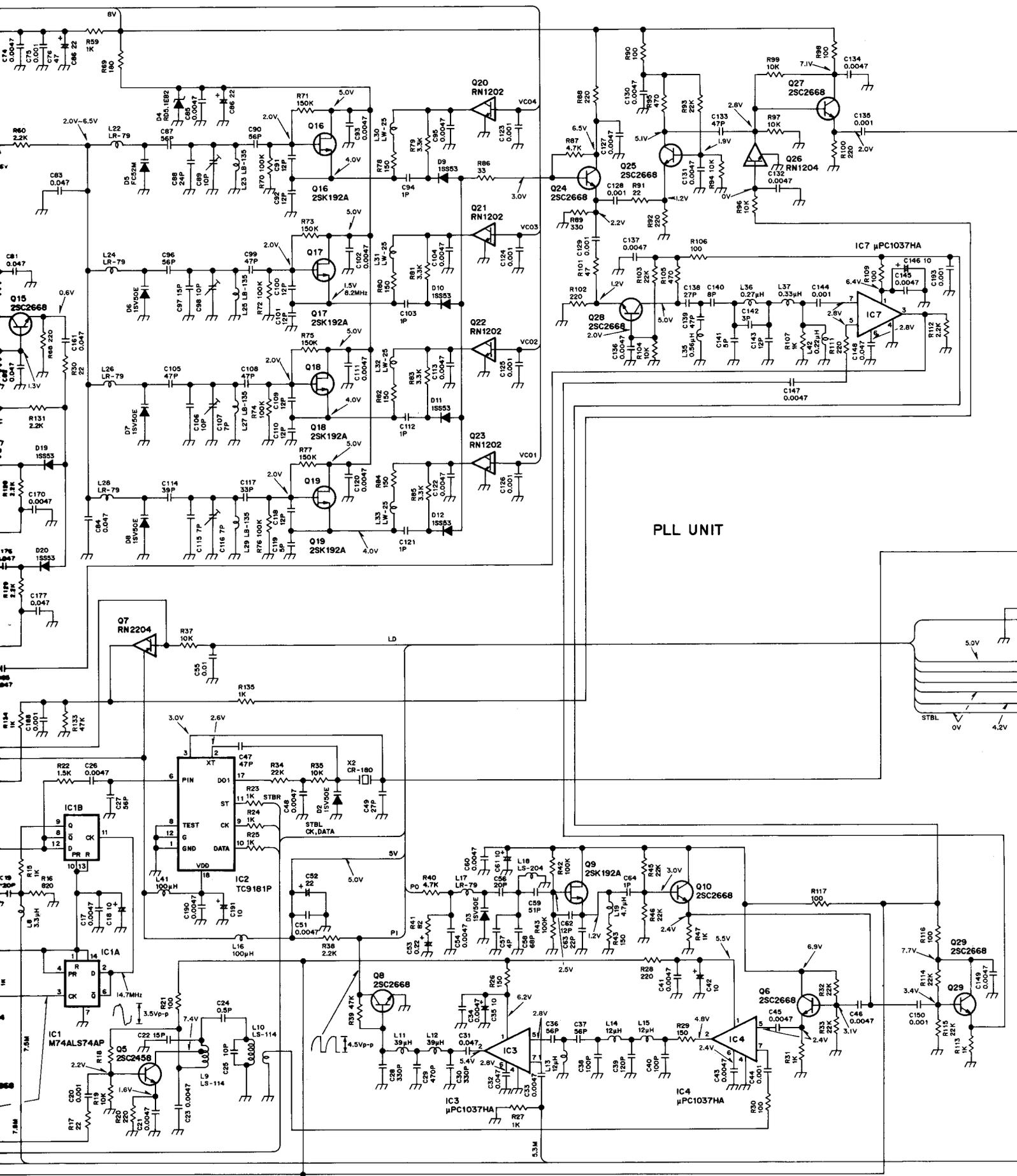
POWER

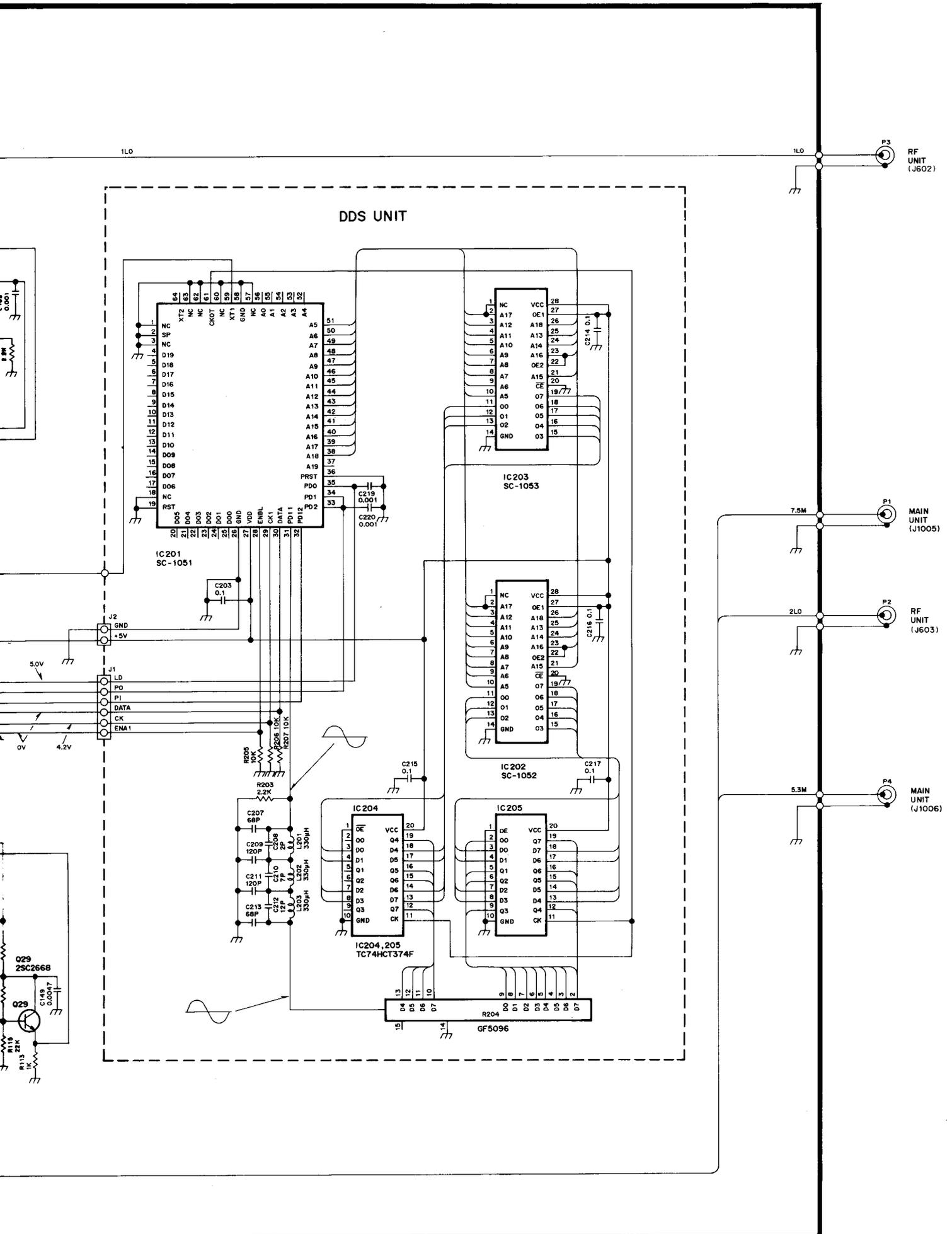
10-2 TRANSCEIVER AND REMOTE CONTROLLER



10-4 PLL UNIT







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