

FT-757GX II

FOR SERVICE MANUALS
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YAESU MUSEN CO., LTD.

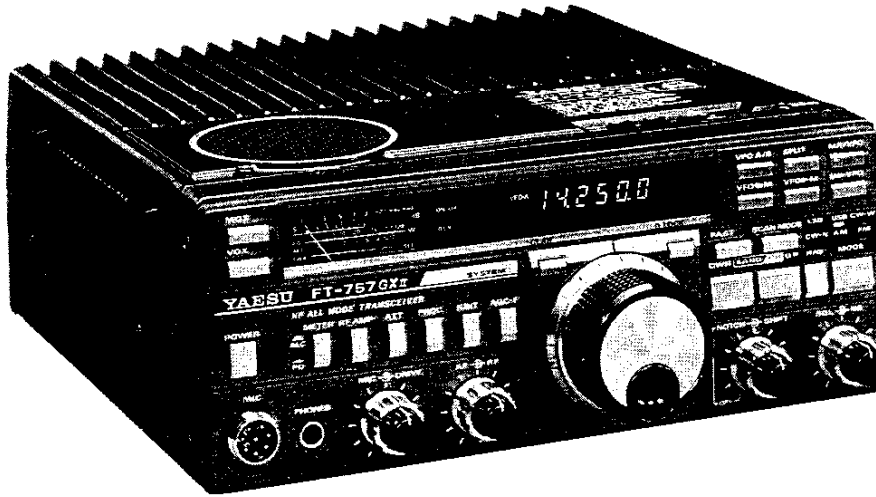
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TOKYO, JAPAN

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FT-757GX II TECHNICAL SUPPLEMENT

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This manual is intended to serve as a supplement to the FT-757GXII Operating Manual. Detailed information regarding functions, installation, interconnections and operation has been provided in the Operating Manual, and is not reprinted herein. Therefore, this supplement is not intended to serve as an independent reference, but to be used in conjunction with the information provided in the Operating Manual.

Because there are nearly four hundred and fifty semiconductor devices in the FT-757GXII, circuit description information is provided in the form of numerous block diagrams and a complete Component Applications List. We hope that this manner of providing functional information proves to be more convenient for the owner and technician than would a lengthy verbal description. Those readers unfamiliar with the basic types of analog and digital circuits that serve as the building blocks of the FT-757GXII are encouraged to study instructional material, such as that provided in handbooks on amateur radio and digital circuit design, before attempting to understand the design of the FT-757GXII. Each block in the block diagrams represents one such basic circuit, while the Component Applications List provides additional details for each semiconductor. General information on integrated circuits and their applications is available in the data provided by the IC manufacturers. Specific circuit details are provided in the schematic diagrams in this manual.

While we believe the technical information in this manual is correct, Yaesu assumes no liability for damage that may occur as a result of typographical or other errors that may be present. Your cooperation in pointing out any inconsistencies in the technical information would be appreciated.

Yaesu Musen reserves the right to make changes in the circuitry of this transceiver, in the interest of technological improvement, without obligation to notify owners or to modify any sets produced prior to the modification.

SOLDERING AND DESOLDERING TECHNIQUE

The FT-757GX II circuit boards are tough, but mishandling during soldering can cause circuit traces to "lift." While this does not cause permanent damage to the board, much servicing trouble can result, because of the tendency for this lifted trace to break. A few simple precautions will keep your circuit boards in A-1 condition.

1. Use only a 12 to 30-watt chisel-tip soldering iron, with the tip grounded or isolated from AC and DC potential. Voltage at the tip can easily destroy CMOS components.
2. Use only the minimum amount of heat necessary to remove a component, or to cause the solder to "flow" when installing a new component.
3. USE ONLY 60/40 ROSIN CORE SOLDER.
4. Use solder removing braid and flux to absorb excess solder before installing a new component. A solder sucker can also be used, but must be handled with care to avoid lifting traces.
5. Do not attempt to remove DIP ICs without first cutting all of the pins on the component side of the board, unless you have the correct desoldering equipment (spring-loaded clamp and all-pin desoldering tip).

If you do lift a trace, don't worry! Read on to find out how to repair traces like a pro.

NOTES ON USE OF CMOS COMPONENTS:

As CMOS devices are extremely sensitive to damage from static electricity, special precautions must be observed.

In storage, use only conductive sponge specially designed for CMOS components.

When installing a CMOS part in a socket, or on a circuit board, be certain that the power is off. In addition, the technician should rest his hand on the chassis as the component is inserted, so as to place his hand at the same potential as the chassis (better to discharge small amounts of static electricity through your fingers than through a \$5 IC!).

When soldering a CMOS part onto a circuit board, use a low-wattage iron, and be sure to ground the tip with a clip lead, if the tip is not grounded through a three-wire power cord.

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INSERTION OF PARTS ON CIRCUIT BOARDS

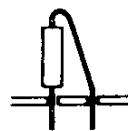
All of the below are acceptable ways of inserting components into circuit board mounting holes.



(a) Bend leads slightly



(b) Straight-in mounting



(c) Vertical mounting

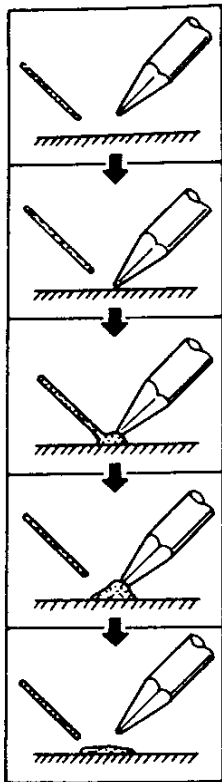


(d) Preformed disc ceramic capacitor



(e) Preformed resistor, diode, etc.

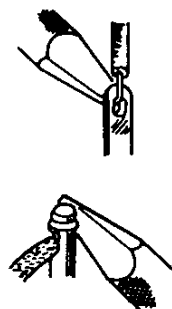
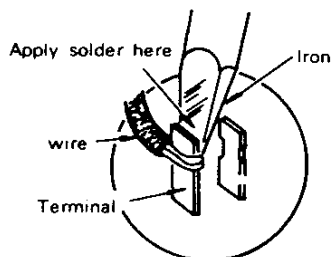
BASIC SOLDERING PRACTICE



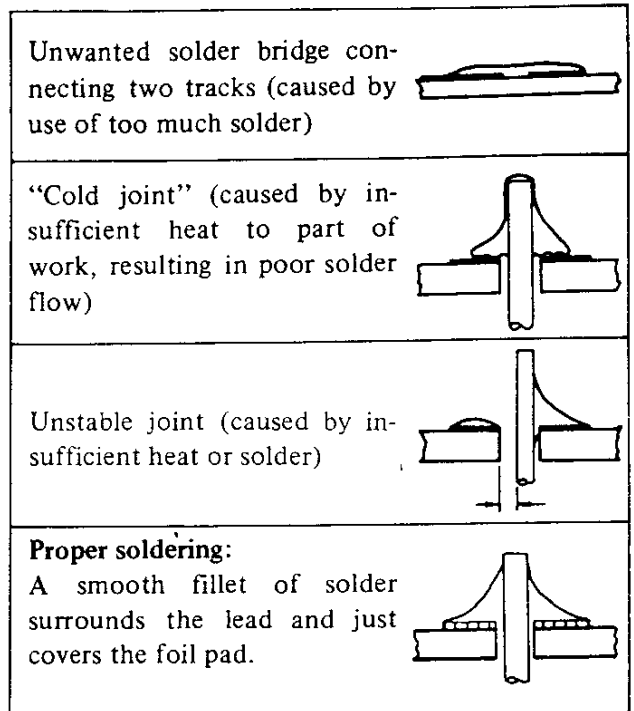
- (1) Prepare soldering iron and solder. The tip of the iron should be thoroughly tinned and wiped clean of excess solder.
- (2) Apply soldering iron to surface to be soldered. Do not press the iron into the surface.
- (3) Apply solder to junction of iron and heated surface.
- (4) When enough solder is applied, remove solder. Continue to apply heat just until solder flows cleanly.
- (5) Remove iron from work. Do not apply more heat than necessary for good solder flow.

Soldering to terminal posts:

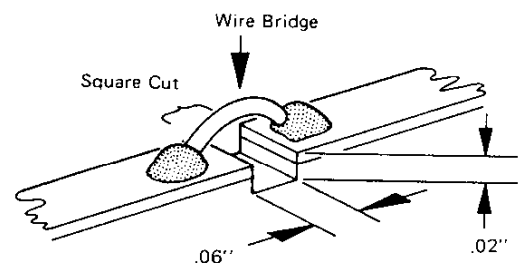
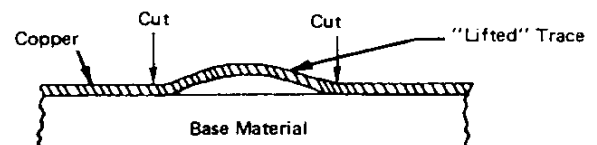
(Be certain to apply heat to both post and wire.)



EXAMPLES OF POOR SOLDERING PRACTICE

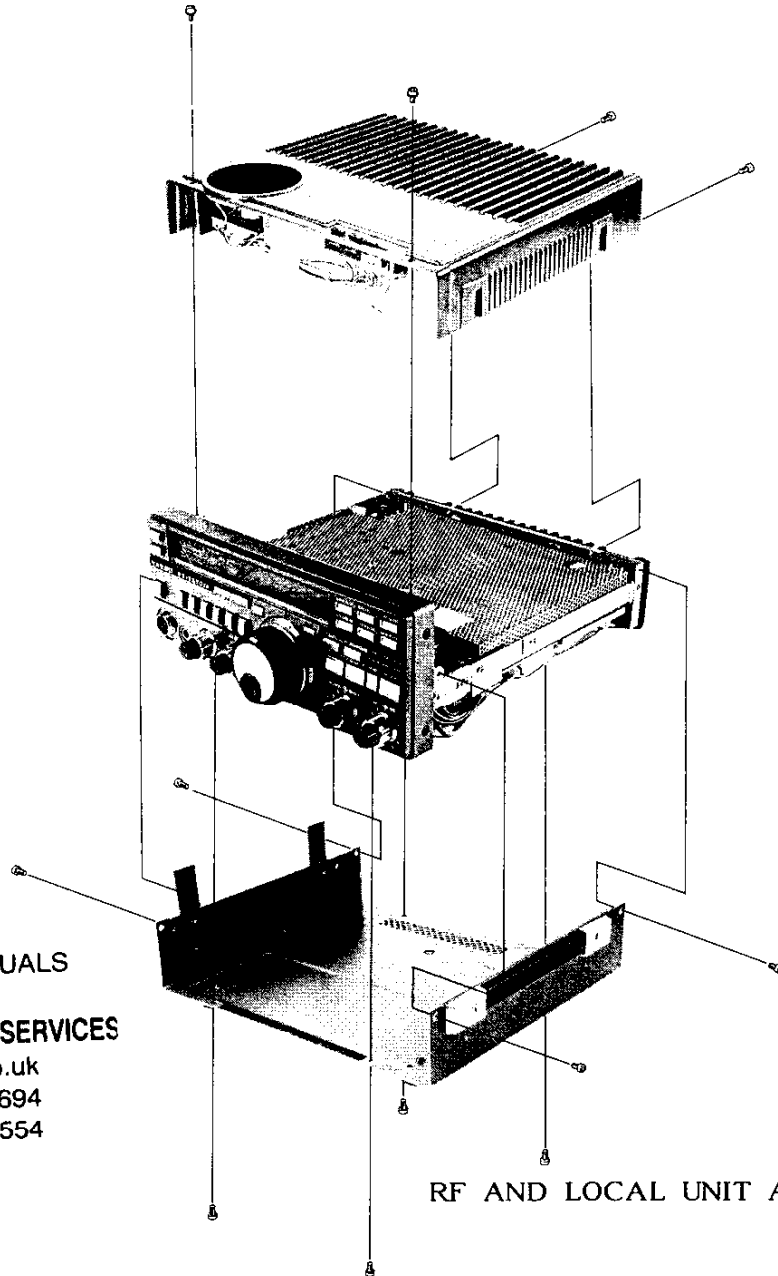


If you have previously lifted a trace, make an etch cut on each side of the lifted trace as shown in the drawing, and install a wire bridge.



Coat Cut Area With Eastman 910 After Soldering Wire Bridge

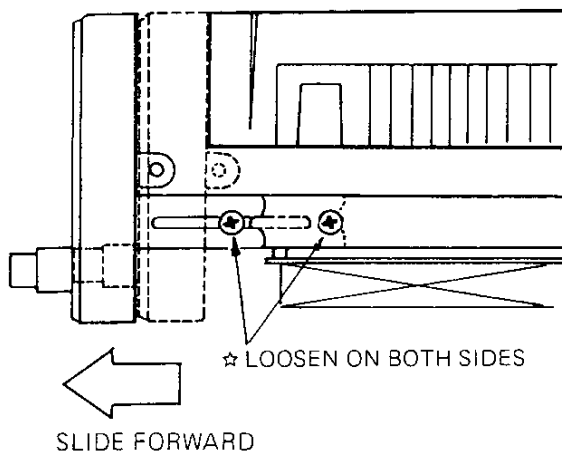
OUTER COVER REMOVAL



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RF AND LOCAL UNIT ACCESS

To access the solder sides of the RF and Local Units, loosen the screws (marked ☆) on each side and slide the front panel forward.



To remove the RF Unit, first note the positions of the DELAY, ANTI-TRIP, VOX GAIN, COMP LEVEL and FWD SET knobs on the rear panel, and remove them. Then remove the KEY jack nut using a special wrench (available from Yaesu agents). Disconnect the following plugs from their corresponding jacks on the RF Unit: J1027/P14, J1021/P08, J1029/P05, J1003/P03, J1001/P01, J1034/P3003 and J1004/P35. Remove the 5 screws in the board.

SERVICE AND ALIGNMENT

The FT-757GXII is carefully designed to allow the knowledgeable operator to make all adjustments required for various station conditions, modes and operator preferences simply from the controls on the front and rear panels, without opening the case of the transceiver. These adjustments are described in the FT-757GXII Operating Manual.

The following procedures cover the sometimes critical and tedious adjustments that are not normally required once the transceiver has left the factory. However, if damage occurs and some parts subsequently be replaced, realignment may be required. If a sudden problem occurs during normal operation, it is likely due to component failure; realignment should not be done until after the faulty component has been replaced.

We recommend that servicing be performed only by authorized Yaesu service technicians who are experienced with the circuitry and fully equipped for repair and alignment. Therefore, if a fault is suspected, contact the dealer from whom the transceiver was purchased for instructions regarding repair. Authorized Yaesu service technicians realign all circuits and make complete performance checks to ensure compliance with factory specifications after replacing any faulty components.

Those who do undertake any of the following alignments are cautioned to proceed at their own risk. Problems caused by unauthorized attempts at realignment are not covered by the warranty policy. Also, Yaesu must reserve the right to change circuits and alignment procedures in the interest of improved performance, without notifying owners.

Under no circumstances should any alignment be attempted unless the normal function and operation of the transceiver are clearly understood, the cause of the malfunction has been clearly pinpointed and any faulty components replaced, and the need for realignment determined to be absolutely necessary.

The following test equipment (and thorough familiarity with its correct use) is necessary for complete realignment. Correction of problems caused by misalignment resulting from use of improper test equipment is not covered under the warranty policy. While most steps do not require all of the equipment listed, the interactions of some adjustments may require that more complex adjustments be performed afterwards. Do not attempt to perform only a single step unless it is clearly isolated electrically from all other steps. Rather, have all test equipment ready before beginning, and follow all of the steps in a section in the order they are presented.

A 50-ohm dummy load must be connected to the antenna jack in all procedures that call for transmission (closing the PTT line), except where specified otherwise. Correct alignment is not possible with an antenna.

The SHIFT control must be set to the 12 o'clock position, the NOTCH control set fully counterclockwise to OFF, the RF gain control fully clockwise (maximum), and the SQL control must be fully counterclockwise, unless stated otherwise.

After completing one step, read the following step to determine whether the same test equipment will be required. If not, remove the test equipment (except dummy load and wattmeter, if connected) before proceeding.



Alignment Equipment

Frequency counter with accuracy of 0.1 ppm to 100 MHz

DC voltmeter with at least 10-Megohm input impedance

RF voltmeter with at least 5% accuracy to 100 MHz, high impedance, and ranging from 10 mV to 3 Vrms

AF millivoltmeter

DC milliammeter ranging to 500 mA

X-Y oscilloscope with 60 MHz bandwidth

RF in-line wattmeter

Resistive dummy load, 50 ohms, 150W; three required for SWR Turndown alignment

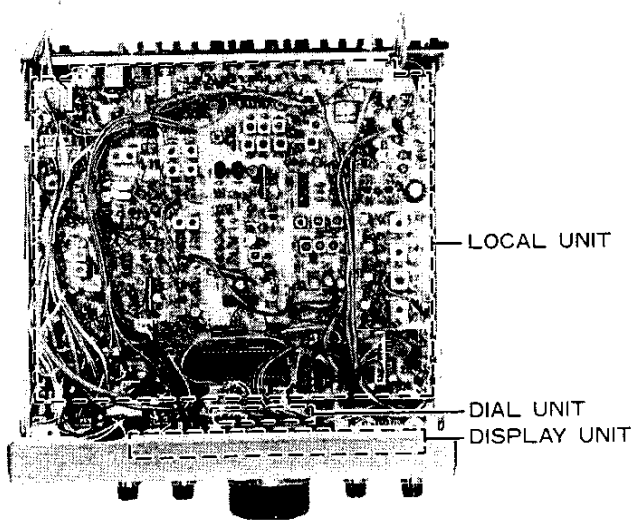
RF signal generator covering 1-30 MHz, with calibrated output levels from 5 dB μ to 100 dB μ

AF signal generator with calibrated output levels from 1 mV to 25 mV

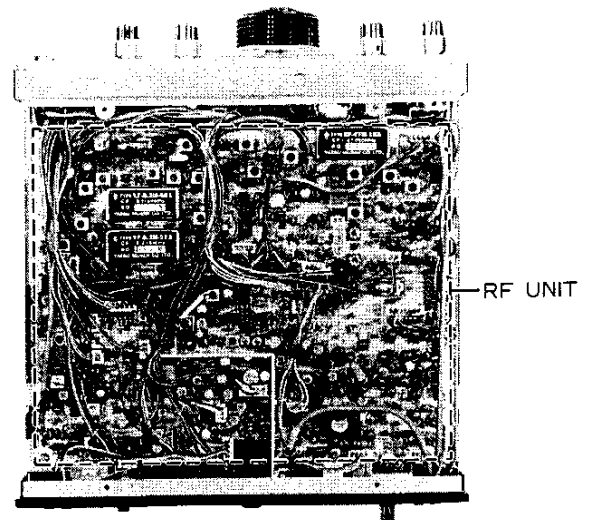
FM deviation meter/SINADer and RF sampling coupler ("T") for FM modulator alignment

Monitor scope for transmitter output display

Linear detector for 1-30 MHz

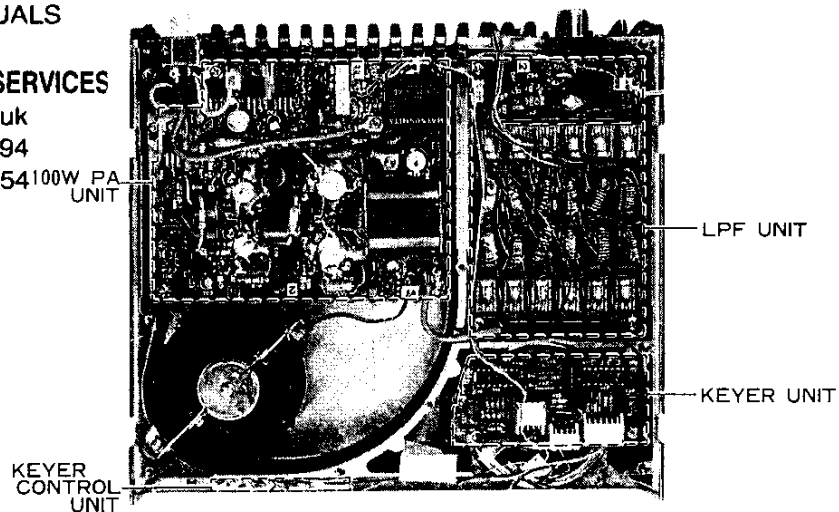


Chassis Top View



Chassis Bottom View

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Underside of Heatsink

Alignment Precautions

Correct alignment requires that the ambient temperature be the same as that of the transceiver and test equipment, and that this temperature be held constant between 20 and 30 °C (68 to 86 °F). When the transceiver is brought into the shop from hot or cold air it should be allowed some time for thermal equalization before alignment.

Alignments must only be made with oscillator shields and circuit boards firmly affixed in place. Also, the test equipment must be thoroughly warmed up before beginning.

Supply voltage during alignment must be held constant at 13.5V DC. Use a well-regulated power supply capable of at least 20A continuous load.

Note: Signal levels in dB referred to in the alignment procedure are based on 0dBu=0.5uV.

I. LOCAL Unit

A. Third LO BPF

Connect the RF voltmeter across 3rd LO OUT jack J2008. Set the transceiver to a CW mode, and while receiving, adjust T2001 and T2002 for maximum RF voltage (30 mVrms nominal).

B. SSB, AM & CW Receive LO Level

Connect the RF voltmeter to pin 2 of Q2012 and adjust TC2002 so that the difference in level between CW transmit and receive is less than 5 mVrms at this point (output level approximately 50 mVrms).

C. 45 MHz Bandpass Filter

With the transceiver set to the 14 MHz band, connect the RF voltmeter to TP2006 and adjust T2009 and T2010 for maximum voltmeter deflection (at least 80 mVrms).

D. 60 MHz Bandpass Filter

Set the transceiver to the 21 MHz band, and with the RF voltmeter connected as

in the previous step, adjust T2011 and T2012 for maximum deflection (at least 80 mVrms).

E. 45 MHz Tripler

Return the transceiver to the 14 MHz band, and connect the RF voltmeter to TP2002. Adjust T2006 and T2007 for maximum deflection (at least 80 mVrms).

F. 15 MHz Reference Oscillator

Connect the frequency counter to TP2002 and adjust TC2006 for 45 MHz \pm 20 Hz.

G. 2nd Local Oscillator Frequency

1. Connect the frequency counter to TP2007, and tune the transceiver so that the display indicates 14.000.0. Adjust VR2015 so that the counter shows 32.06000 MHz \pm 20 Hz.

2. Press the DOWN key on the microphone carefully so that the display just steps down to 13.999.9, and adjust VR2006, if necessary, to obtain 32.05901 MHz on the counter. Now press the UP key on the microphone once momentarily so that the display steps up to 14.000.0 and check that the difference in the frequencies shown on the counter are within 990 Hz \pm 5 Hz.

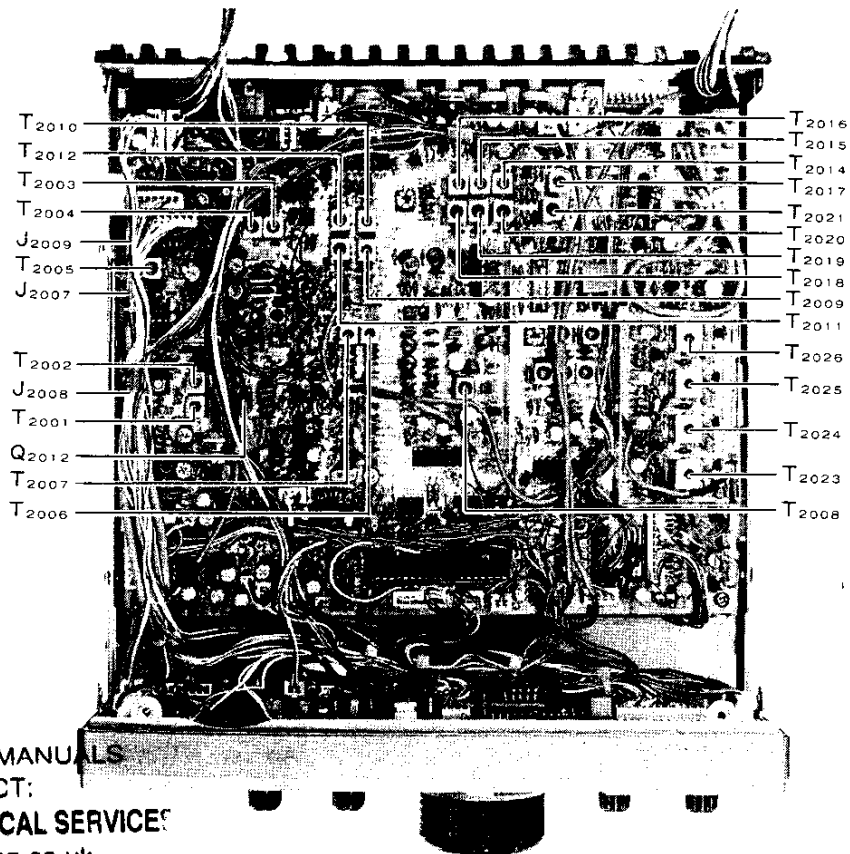
H. Carrier Point (Coarse Adj.)

Connect the counter to J2008 and adjust the point indicated in the corresponding mode for the frequency shown below:

MODE	ADJUST	COUNTER FREQUENCY
LSB	TC2005	8213.4 kHz (\pm 50 Hz)
CW	TC2004	8215.9 kHz (\pm 10 Hz)
USB	VR2005	8216.6 kHz (\pm 50 Hz)

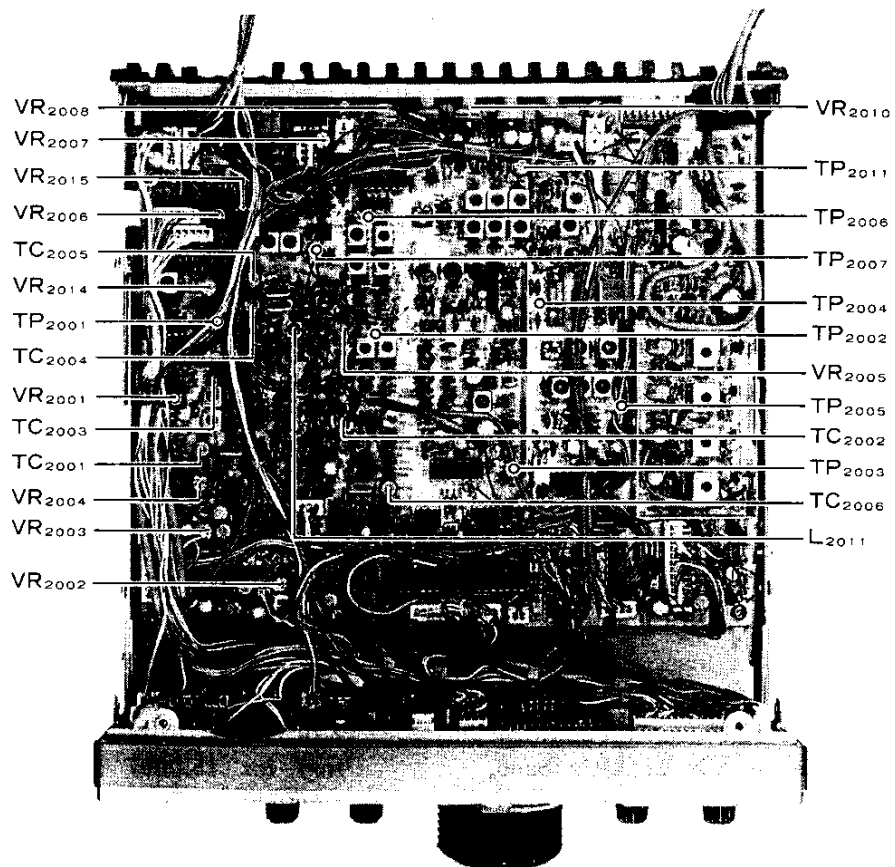
I. BFO Frequency

Set the transceiver to a CW mode, and connect the frequency counter to pin 2 of Q2012. Adjust TC2001 (while receiving) for 15.0007 MHz \pm 10 Hz on the counter.



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Chassis Top View :
 LOCAL Unit Adjustment Locations



- J. FM & AM Carrier Frequency
1. Rotate the AM CAR control (VR2008) fully clockwise, set the transceiver to the AM mode and connect the frequency counter to J2007. Close the PTT line and adjust VR2014 for 8.215 MHz \pm 100 Hz on the counter.
 2. Set the transceiver to the FM mode. Adjust VR2004 while transmitting for 8.215 MHz \pm 100 Hz on the counter.

- K. Carrier Level
- Set the transceiver to the LSB mode and connect the RF voltmeter to TP2001. Close the PTT line and adjust TC2003 for 50 \pm 5 mVrms.

- L. Carrier Balance
- With the transceiver set to LSB, connect the RF voltmeter to J2007 and adjust VR2001 for minimum voltage on the meter.

- M. AM Carrier Level
1. With the RF voltmeter connected to J2007, set the mode to CW, key the transmitter, and note the voltage indicated on the meter (approx. 80 mVrms).
 2. Return to receive, switch the mode to AM, close the PTT line and adjust AM CAR control VR2008 for exactly half of the voltage noted in the previous step.

- N. PLL SubLoop (PLL-1) VCV
1. Connect the (Hi-Z) DC voltmeter to TP2003 and tune the transceiver for 14.499.99 on the display. Adjust T2008 for 5.5 volts on the meter.
 2. Retune the transceiver for display of 14.500.00, and check for 2 to 3 volts on the meter.

- O. 41 & 56 MHz Bandpass Filters
1. Connect the RF voltmeter to TP2004 and tune the transceiver for 14.250.00 on the display. Adjust T2014 - T2017 for maximum RF voltage (at least 50 mVrms).
 2. Retune the transceiver for display of

21.250.00, and adjust T2018 - T2021 for maximum RF voltage (at least 50 mVrms).

- P. Main PLL (PLL-2) VCV
1. Connect the (Hi-Z) DC voltmeter to TP2005 and tune the transceiver to the frequencies shown in the following chart. Adjust the corresponding transformer for 1.5V on the meter. Then retune the transceiver to the corresponding 'Check' frequency, and confirm 5 to 6V on the meter.

ADJUSTMENT (for 1.5V)		CHECK (for 5-6V)
Freq. (MHz)	Transformer	Freq. (MHz)
0.500	T ₂₀₂₃	7.499
7.500	T ₂₀₂₄	14.499
14.500	T ₂₀₂₅	21.499
21.500	T ₂₀₂₆	29.999

2. Confirm proper VCV control by tuning between the 'Adjustment' and 'Check' frequencies in each of the four ranges, using the tuning knob or scanning buttons, while watching the voltmeter for smooth voltage change. Uneven or jumpy changes indicate a fault.

- Q. 2nd Local Level
- Connect the RF voltmeter to J2009. Adjust T2003 - T2005 for maximum RF voltage (at least 80 mVrms).

- R. IF Shift Zero Point Set
1. Connect the frequency counter to J2009. Confirm that the SHIFT control is centered, and close the PTT line, and note the counter frequency. Open the PTT line and adjust VR2007, if necessary, so that the counter frequency is within 50 Hz of that which was shown while transmitting.
 2. While receiving, check the total adjustment range of the SHIFT control in USB, LSB and CW, which

should be approximately ± 1.3 kHz (as shown on the counter. If not, adjust L2011 (not more than 90° in either direction), and then repeat steps H, I and J (Carrier Point, BFO Frequency and FM/AM Carrier Frequency). Then repeat this check again.

S. VOX Gain Preset

1. Press the VOX switch ON, preset VR2011 fully clockwise, and set the VOX GAIN control on the rear panel fully clockwise. Connect the AF generator to the PATCH jack, and apply 1 mV at 1 kHz to confirm that the transmitter activates.
2. Now rotate the VOX GAIN fully counterclockwise, and adjust VR2011 slowly counterclockwise until the transceiver returns to receive, and then a little further counterclockwise from that point.

T. SSB Carrier Point (Fine Adj.)

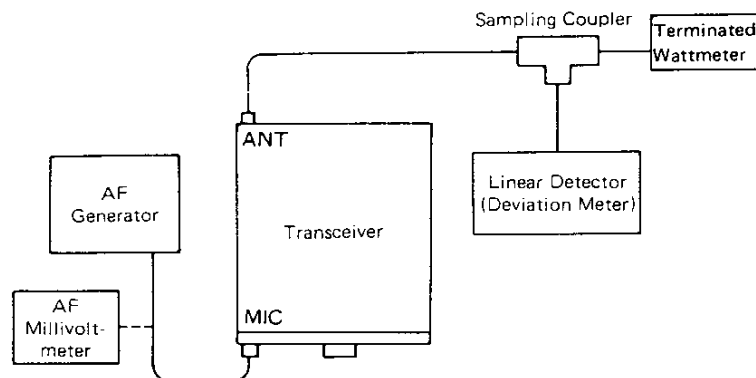
1. With the AF generator connected as in the previous step, set the transceiver to the 14 MHz band, LSB mode. Close the PTT line and adjust the MIC gain control for 80 watts output to the dummy load/wattmeter.

(For 10-watt versions, divide all power figures by 10).

2. Reduce the AF generator frequency to 350 Hz. While watching the wattmeter, adjust TC2005 slightly for 20W output.
3. Retune the AF generator to 2600 Hz and confirm at least 20W output.
4. Return to receive, switch to USB mode, and retune the AF generator to 350 Hz. Then repeat steps 2 and 3, adjusting VR2005 in step 2.

U. FM Modulation

1. With the test equipment connected as shown in the diagram below, preset VR2002 fully clockwise, and set the AF generator for 10 mV output at 1 kHz. Tune the transceiver to 29.2 MHz, FM mode.
2. Adjust VR2003 for ± 4.5 kHz deviation (within ± 100 Hz), and then reduce the AF generator level to 1.5 mV and adjust VR2002 for ± 3.5 kHz deviation (within ± 100 Hz).
3. Recheck deviation with 10 mV audio, and repeat the above steps until deviation is within the specified ranges for both audio levels.



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II. RF Unit: Receiver Circuits

A. 3rd Local Buffer

Connect the RF voltmeter to the emitter of Q1028 and adjust T1019 for maximum RF voltage (at least 300 mVrms).

B. 2nd Local Buffer

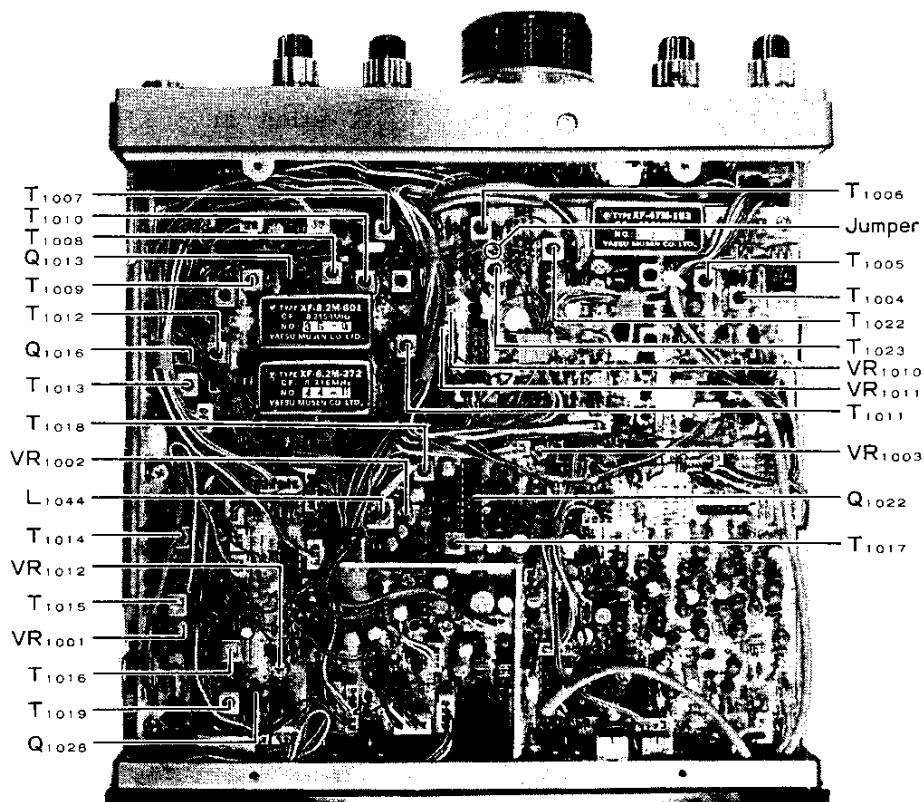
Connect the RF voltmeter to the jumper between T1006 and T1023 on the component side of the board, and adjust T1022 for maximum RF voltage (250 to 500 mVrms).

C. 8.67 MHz Oscillator

1. Connect the frequency counter through a 0.01 uF capacitor to pin 1 of Q1022. Confirm the NOTCH control is set to OFF, and adjust L1044 for 8.67 MHz \pm 100 Hz on the counter.
2. Connect the RF voltmeter to gate two of Q1016 and adjust T1018 for maximum RF voltage (at least 700 mVrms).

D. Rx IF Transformers

1. Press the MARKER switch on the rear panel, select the USB mode, and tune for peak S-meter indication on the marker signal. Preset VR1001 fully clockwise and adjust VR1012 for minimum S-meter deflection.
2. Now turn the MARKER switch OFF and adjust VR1010 so that the S-meter just begins to deflect.
3. Connect the RF signal generator to the antenna jack, and inject 0dB at 14.000 MHz. Tune the transceiver for a 1.6 kHz heterodyne on the injected signal.
4. Connect the AF voltmeter to the EXT SP jack and adjust the AF gain for mid-scale deflection. Adjust T1016 and T1015 - T1010 and T1007 - T1004, in that order, for maximum AF voltage. Reduce the RF injection level, as necessary, to keep the AF meter reading on scale.



Chassis Bottom View: RF Unit
RX Adjustment Locations

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E. IF Notch Depth

1. Inject 40 dB RF at 14.000 MHz to the antenna jack, and tune the transceiver in the USB mode for a 1.6 kHz heterodyne near this frequency.
2. With the AF voltmeter connected to the EXT SP jack, adjust VR9001 and the NOTCH control alternately for minimum AF. Resulting Notch depth should be better than 45dB.

F. Noise Pitch

Set the NOTCH control to OFF, and confirm that the SHIFT control is centered. With no signal at the antenna jack, switch the mode between LSB and USB, and adjust L1015 for the same noise pitch.

G. IF Gain and S-Meter Sensitivity

1. Inject 6dB RF at 14.000 MHz to the antenna jack and adjust VR1001 for S-1 deflection on the S-Meter.
2. Increase the signal level to 100dB and adjust VR1011 for full scale on the S-Meter.

H. Noise Blanker

Connect the DC voltmeter to gate two of Q1013, and inject 50dB RF at 14.000 MHz to the antenna jack. With the NB button depressed, adjust T1008 and T1009 for minimum DC voltage.

I. FM 3rd Local

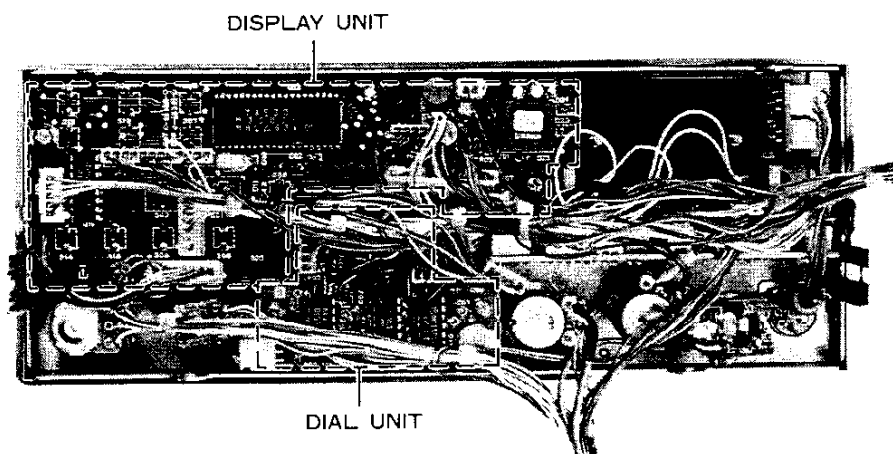
Inject 50dB RF at 14.000 MHz modulated with ± 3.5 kHz deviation of a 1 kHz tone to the antenna jack. Set the transceiver to the FM mode and tune to the injected signal. With the AF voltmeter connected to the EXT SP jack, confirm that the SQL control is fully counter-clockwise, and adjust T1017 for maximum AF voltage.

J. Squelch Threshold

Set the transceiver to the AM mode. With no signal applied at the antenna jack, turn the SQL control gradually clockwise (from the fully CCW position) until the squelch just closes. Then tch o the FM mode and adjust VR1003 so that the squelch is just closed.

K. FM RX Audio Output Level

1. Inject 40 dB RF (without modulation) at 14.000 MHz to the antenna jack, and tune the transceiver in the USB mode for a heterodyne near this frequency. Adjust the AF gain control for 0.1V on the AF voltmeter.
2. Switch to the FM mode, and modulate the injected signal with ± 5 kHz deviation at 1 kHz, without changing the injection level. Adjust VR1002 for $0.1 \pm 0.01V$ on the AF voltmeter.



III. RF Unit: Transmitter Circuits

A. ALC Meter Zero Set

With the transceiver tuned to 14 MHz, USB mode, and with no microphone input, key the transmitter and adjust VR1008 to the threshold point where ALC just starts to produce meter deflection (the METER switch must be set to the ALC position).

B. Tx IF Transformers

At 14 MHz, CW-W mode, with the METER switch set to ALC, preset VR1006 to the center of its range. Press the MOX switch and adjust T1020, T1021 and T1023 - T1025 for maximum deflection on the ALC meter.

(If no deflection is found at first, set the METER switch to PO and the rear panel FWD/REV switch to FWD. Return the METER switch to ALC when the PO indication is maximum. If the ALC indication is over-scale, reduce the setting of the DRIVE control.)

C. TX Power Output (exc. 10m)

At 14 MHz, CW mode, set the DRIVE control fully clockwise and adjust VR1006 for 100W output (10W for SXII model).

D. 10m Tx Power Output

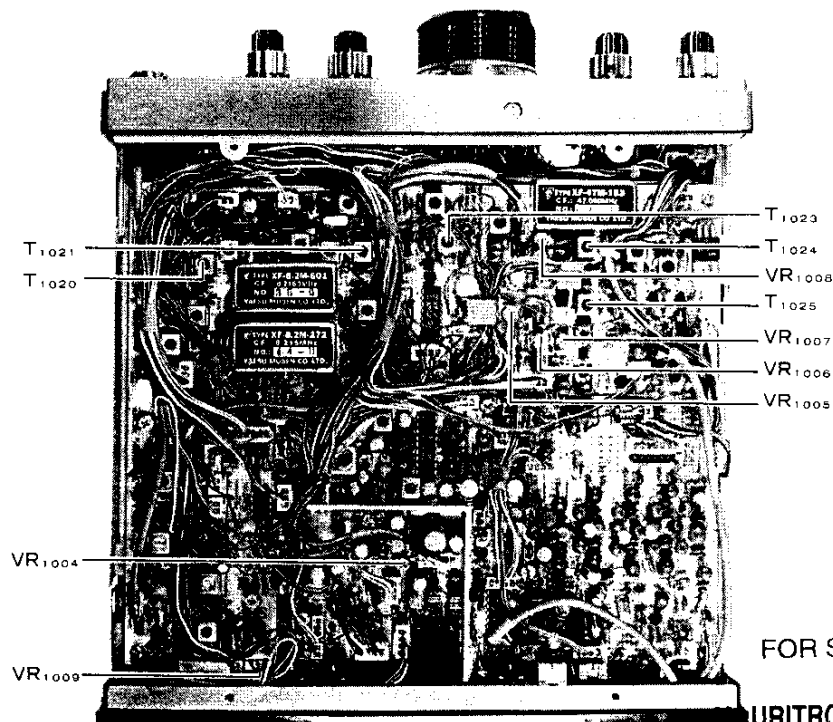
At 29 MHz, CW mode, set the DRIVE control fully clockwise and the set VR1005 fully clockwise (or for 10W output with the SXII model).

E. PO Meter Calibration

At 14 MHz, CW mode, press the MOX button and adjust the DRIVE control for 100W output on the wattmeter. Set the rear panel FWD/REV switch to FWD, and with the front panel METER switch set to PO, adjust the FWD SET control (VR1009) for 100W indication on the transceiver PO meter.

F. SWR Turndown (AFP)

At 14 MHz, CW mode, connect a 16.6-ohm dummy load (three 50-ohm loads in



Chassis Bottom View: RF Unit
TX Adjustment Locations

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parallel) and a thru-type wattmeter to the antenna jack. Rotate the DRIVE control fully clockwise, press the MOX button and adjust VR1007 to the point where power indication on the wattmeter just begins to drop.

G. CW Sidetone Level

With the AF voltmeter connected across the speaker terminals, in a CW mode with a key connected, close the key and adjust VR1004 for 0.3V sidetone output on the meter.

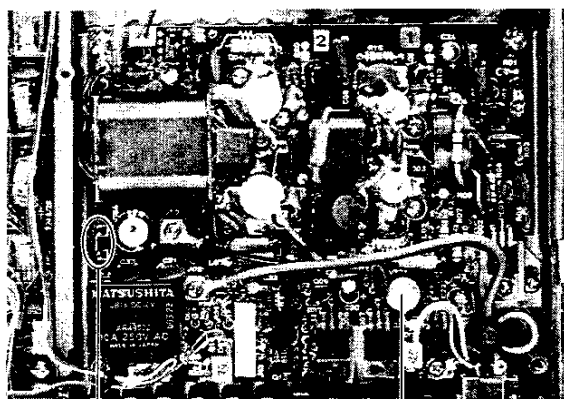
IV. LPF Unit: Directional Coupler Balance

At 14 MHz, CW mode, with the 50-ohm dummy load and wattmeter connected to

the antenna jack, connect the negative side of the DC voltmeter to pin 3 of J1027, and the positive side of the meter to chassis ground. Key the transmitter and adjust TC3001 for minimum DC voltage.

V. PA Unit: Idling Current

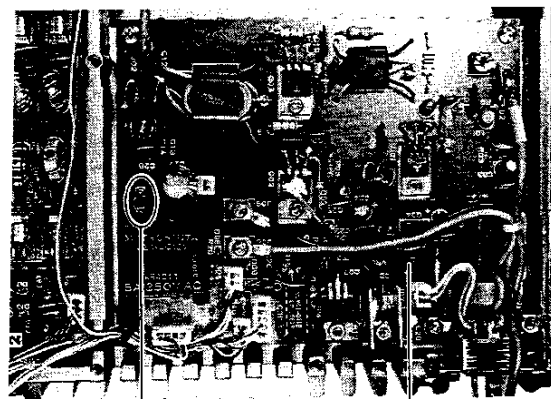
Remove the jumper shown in the figure below, and connect the DC milliammeter (500 mA range) in place of the jumper. With the transceiver set to an SSB mode and with no audio applied to the transmitter, close the PTT line and adjust VR6001 for 225 ± 75 mA on the milliammeter. (For the SXII model, adjust VR7001 for 150 ± 50 mA).



Jumper

VR6001

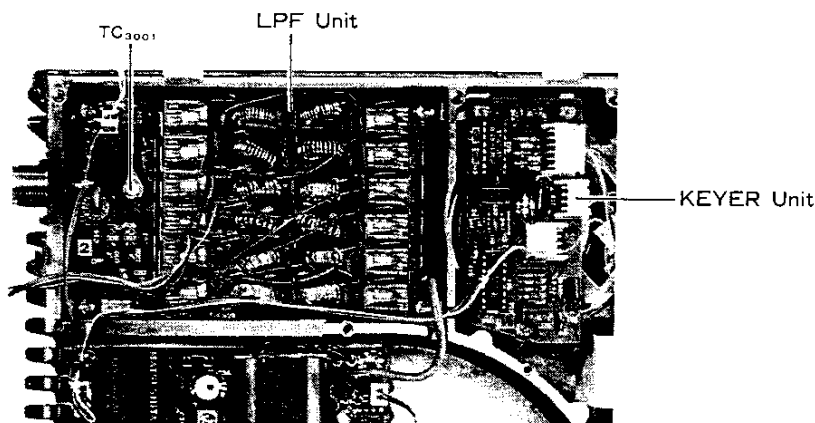
PA Unit: GXII model



Jumper

VR7001

PA Unit: SXII model



TC3001

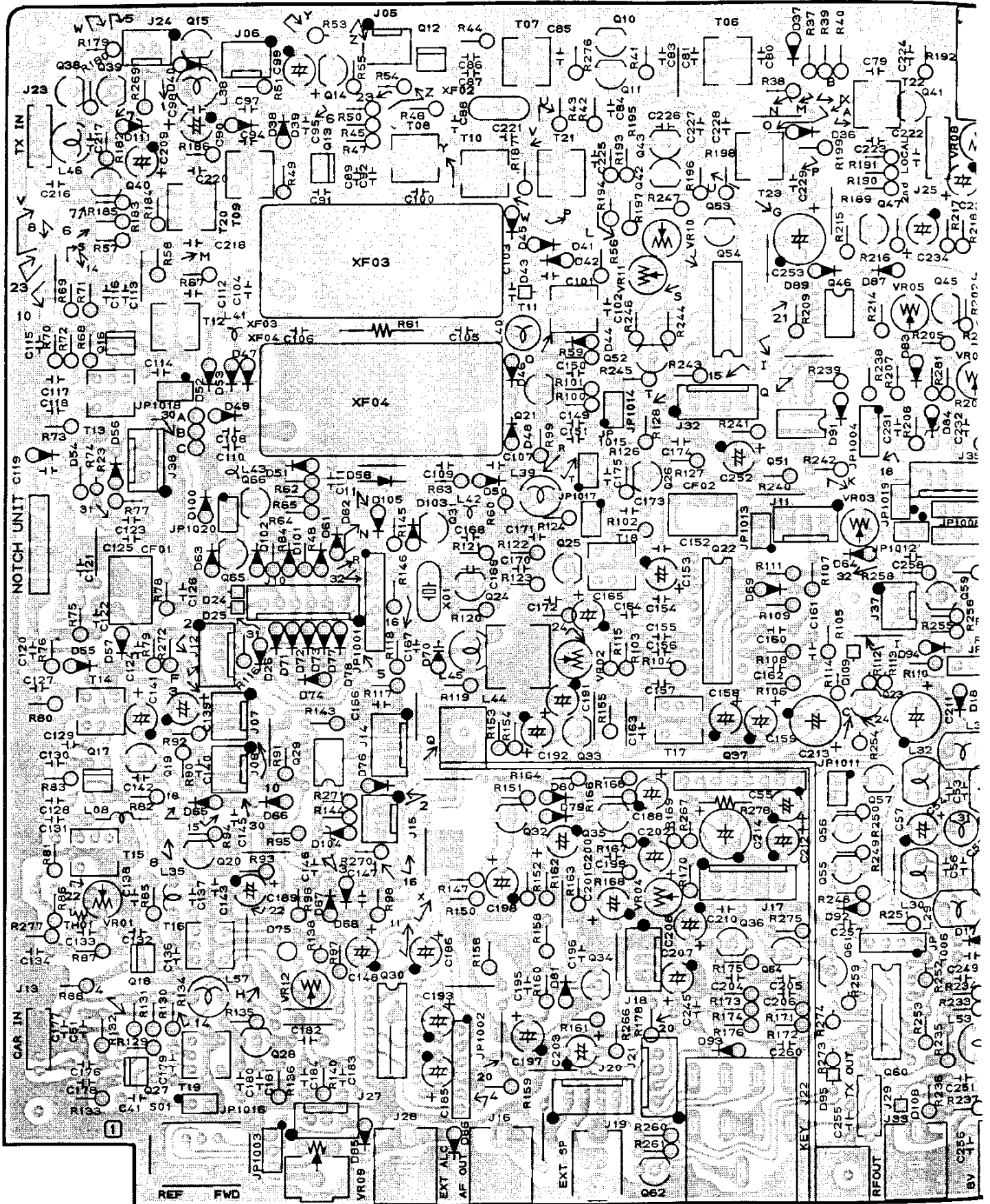
LPF Unit

KEYSER Unit

LPF Unit

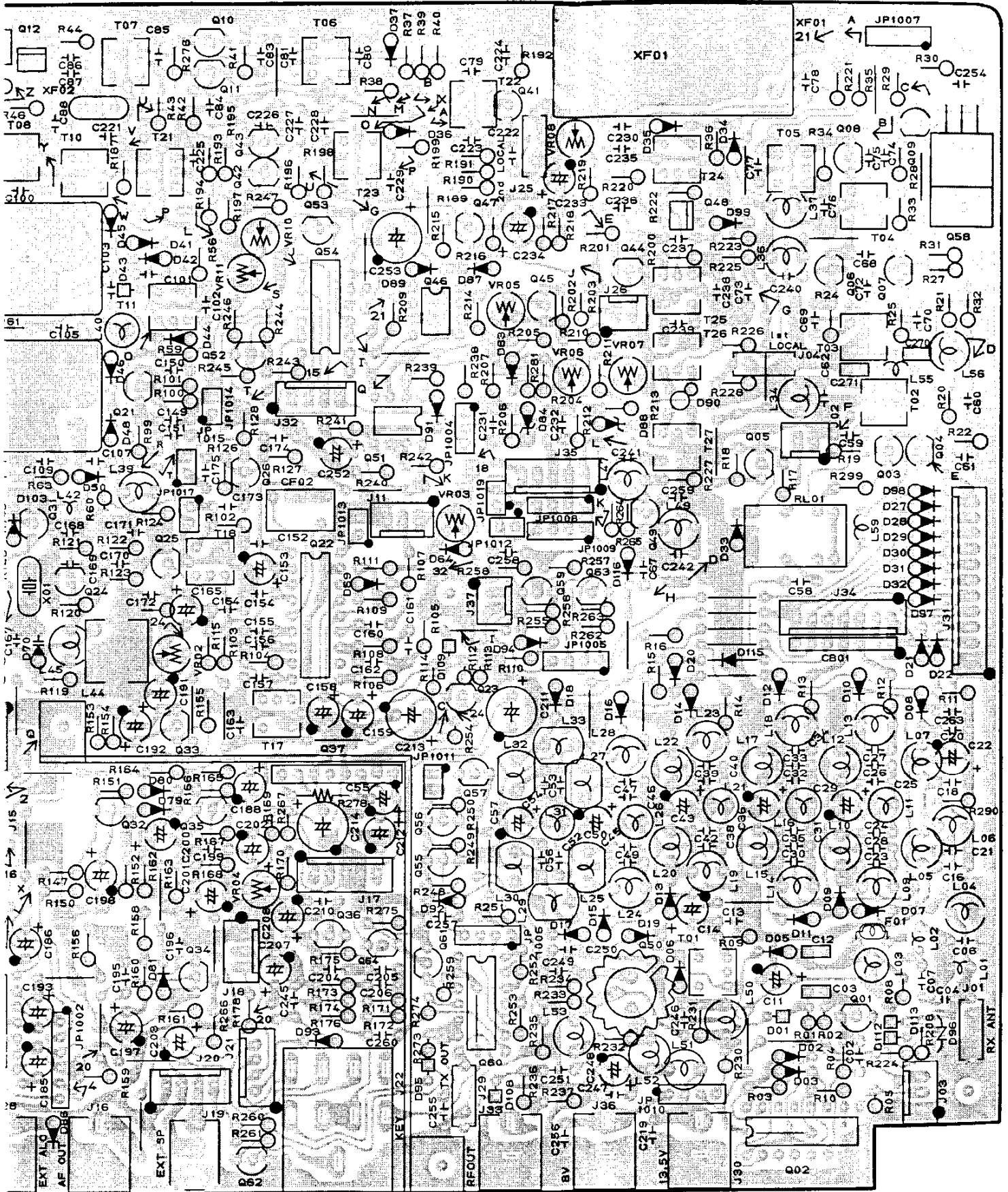
RF UNIT PARTS LAYOUT

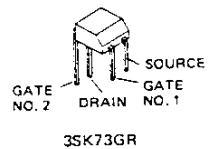
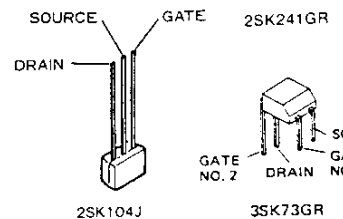
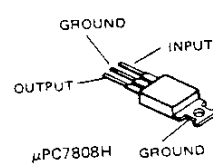
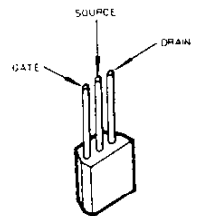
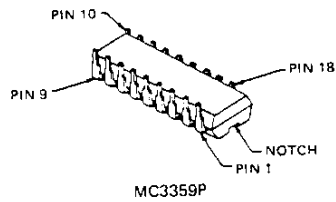
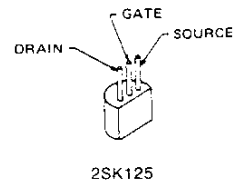
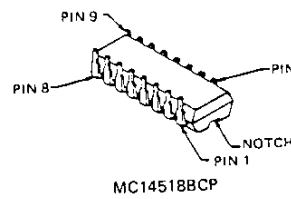
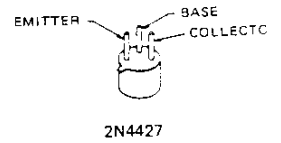
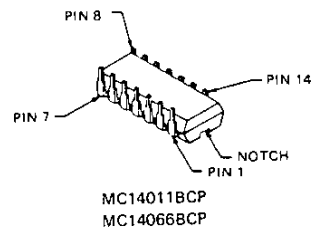
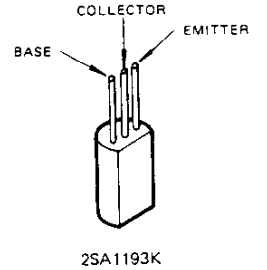
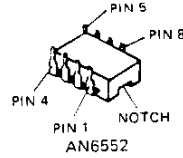
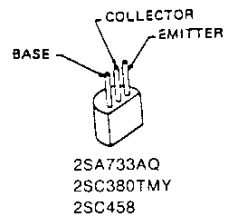
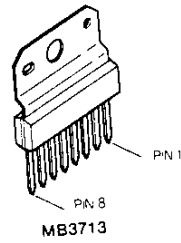
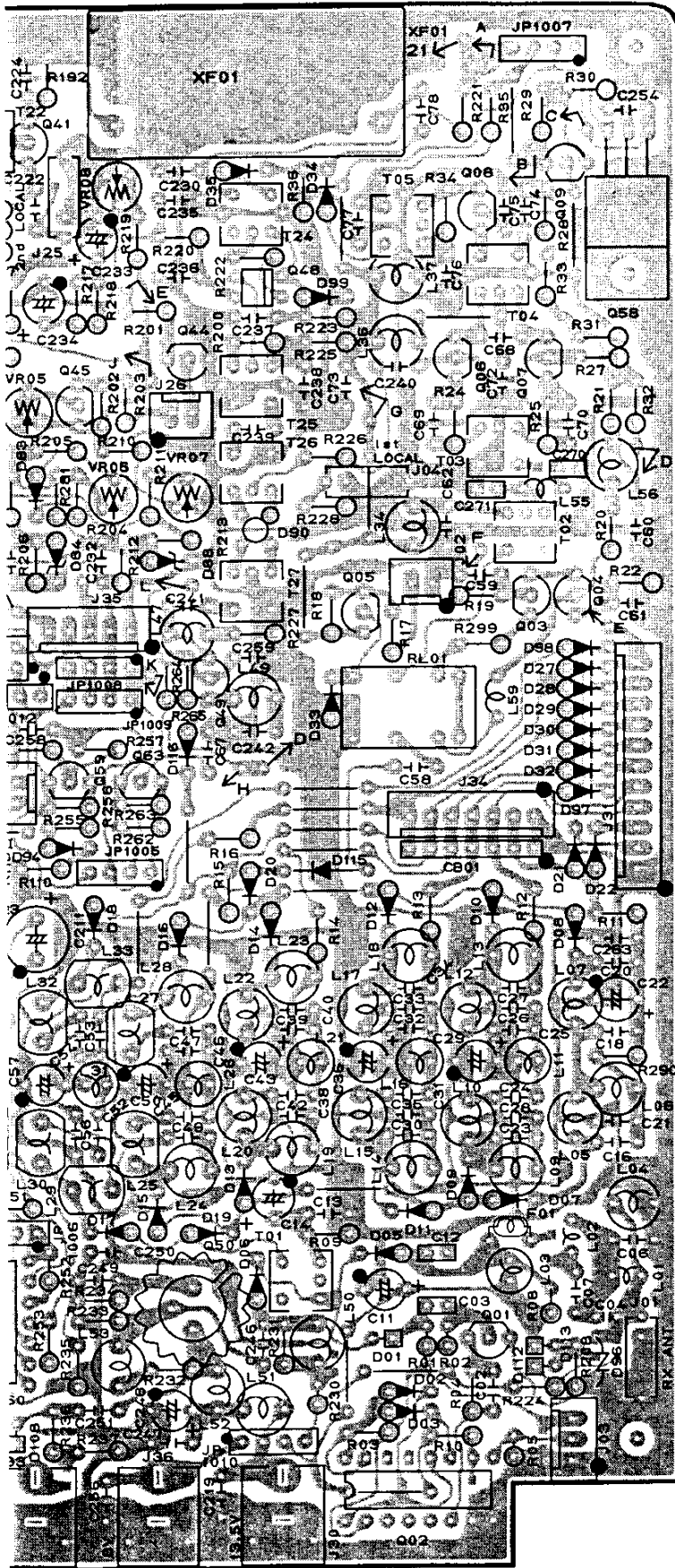
Component Side



RF UNIT PARTS LAYOUT

Component Side



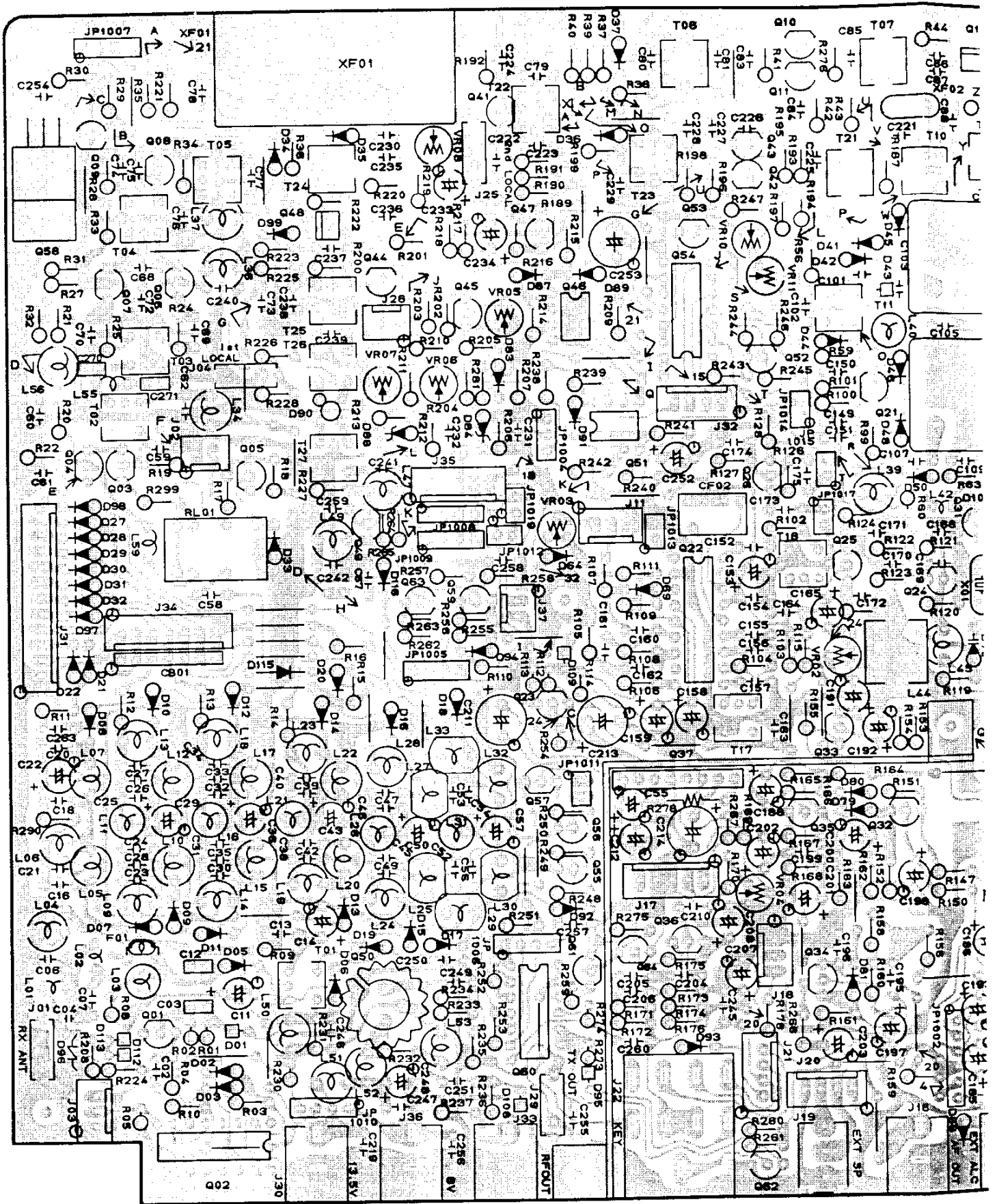


RF UNIT IC VOLTAGE CHART (DC VOLTS)

PIN No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	REMARKS
Q1002	-	8.0	-	-	-	-	0	0	-	7.3	-	-	-	-	-	8.0	-	-	MARKER ON
Q1022	-	-	7.1	7.5	1.1	1.1	1.1	-	-	-	-	-	2.5	0.7	-	-	0	-	SQL MIN
Q1029	-6.4	5.3	3.0	-7.8	3.2	3.5	6.0	8.0	-	-	-	-	-	-	-	-	-	-	SQL MAX
Q1029	7.1	5.3	3.0	-7.8	3.2	3.5	6.0	8.0	-	-	-	-	-	-	-	-	-	-	SQL MIN
Q1030	-	-	-	-	7.0 (SSB)	-	7.1	-	-	-	-	7.0 (CW)	7.8 (AM)	8.0	-	-	-	-	SQL MIN
Q1037	-	13.5	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Q1045	-0.7	-	0	-8.0	0	-	-5.0	8.0	-	-	-	-	-	-	-	-	-	-	-
Q1051	-	-	0	-8.0	-	-	-	8.0	-	-	-	-	-	-	-	-	-	-	-
Q1054	3.2	3.2	3.2	3.2	-0.9	-0.9	0	-	-	-	-	7.3	7.3	8.0	-	-	-	-	-
Q1060	0	0	7.9	8.0	0	0	0	7.3	-0.4	8.0	0.1/8.0	8.0/1.1	7.3/0.5	8.0	-	-	-	-	TX/TX MODE SSB
Q1060	7.3	7.3	0	8.0	0.6	0.6	0	7.3	1.9	8.0	8.0	1.4	0.5	8.0	-	-	-	-	MODE ON KEY DOWN

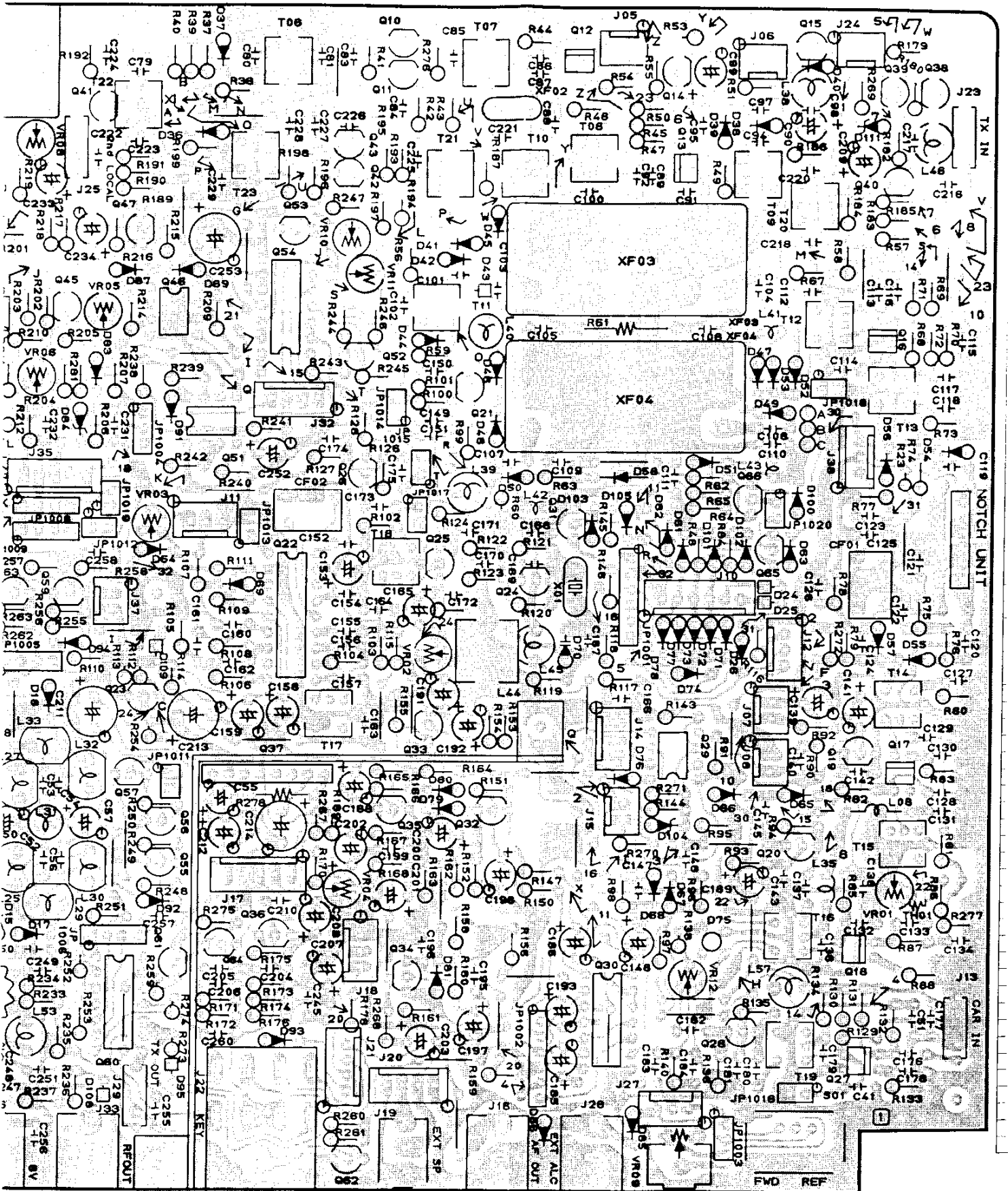
RF UNIT PARTS LAYOUT

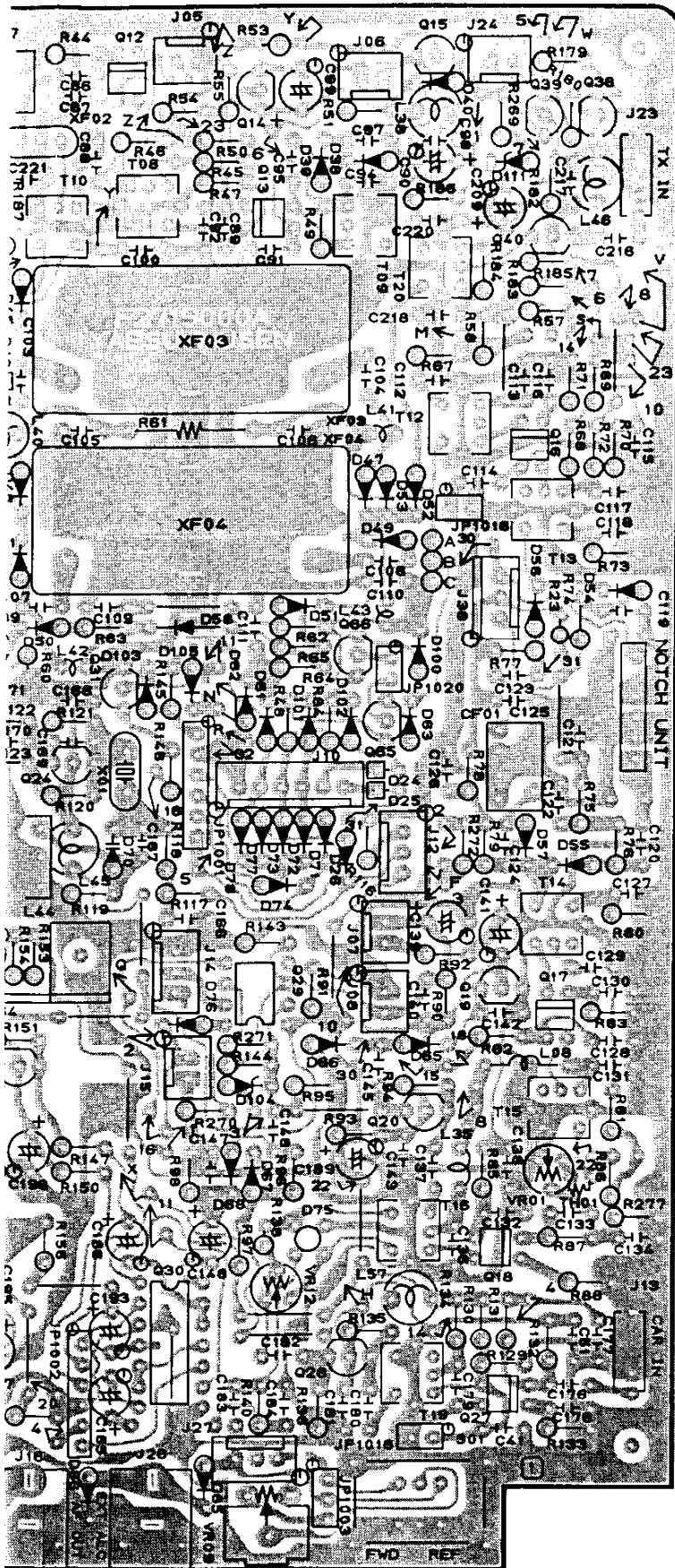
Solder Side



RF UNIT PARTS LAYOUT

Solder Side





RF UNIT VOLTAGE CHART (DC VOLTS)

Q	E (S)		C (D)		B (G ₁)		G ₂		REMARKS
	R	T	R	T	R	T	R	T	
Q1001	0.0		5.8/0.7		0.2/0				MARKER ON/OFF
Q1003	49.0		130.0		2.5/0.5				RF AMP ON/OFF
Q1004	0.5/0		4.9/0		-1.2/-1.2				RF AMP ON/OFF
Q1005	13.3/13.3		0/13.3		13.3/12.6				RF AMP ON/OFF
Q1006	2.1	-	13.3	-	-1.2	-			
Q1007	2.0	-	13.3	-	-1.2	-			
Q1008	0.7	-	13.3	-	-1.2	-			
Q1009	7.3	-	7.3	-	6.7	-			
Q1010	0.2	-	13.0	-	2.0	-			
Q1011	1.8	-	13.0	-	0.2	-			
Q1012	0/0		7.0/7.0		0/0		4.0/4.0		NB ON/OFF
Q1013	0.5/1.4		7.8/8.0		0/0		4.0/4.0		NB ON/OFF
Q1014	-6.9/-6.9		4.0/4.0		-6.9/-6.9				
Q1015	6.4/-6.4		6.2/6.2		-6.8/-6.8				NB ON/OFF
Q1016	1.7	0	12.9	13.0	1.6	-3.1	1.4	1.4	
Q1017	1.6	1.6	13.1	13.0	1.8	1.8	3.2	3.2	
Q1018	1.6	1.6	13.1	13.0	1.8	1.8	3.2	3.2	
Q1019	0	0	3.2	3.2	0	0			
Q1020	4.0	4.0	7.5	7.5	4.6	4.6			
Q1021	6.0	6.0	7.1	7.1	5.8	5.8			MODE FM
Q1023	0	0	2.5	0	0	0.7			
Q1024	1.0	1.0	8.0	8.0	1.6	1.6			
Q1025	0.8	0.8	7.4	7.4	1.4	1.4			
Q1026	3.6	3.6	7.5	7.5	4.3	4.3			
Q1027	1.6	1.6	13.0	13.0	1.8	1.8	3.2	3.2	
Q1028	3.9	3.9	8.0	8.0	4.6	4.6			
Q1031	0/0		7.2/0		4.3/4.3				SQL VR MIN/MAX
Q1032	3.0	3.0	6.0	6.0	3.7	3.7			MODE SSB
Q1033	4.3	4.3	7.3	7.3	4.9	4.9			MODE FM
Q1034	3.9	3.9	6.7	6.7	4.6	4.6			MODE CW
Q1035	1.2	1.2	4.3	4.3	1.8	1.8			
Q1036	0.8	0.8	7.0	7.0	1.2	1.2			
Q1038	0	0	-0.5	7.2	0	0			CW
Q1039	7.3/7.3		7.3/1.6		7.3/6.7				MODE SSB/CW(TX)
Q1040	0/0		130/130		-4.2/-2.3				DRIVE MIN/MAX(TX)
Q1041	1.7	1.7	7.8	7.8	2.3	2.3			
Q1042	0	0	13.0	13.0	-4.4	-4.4			
Q1043	0	0	13.0	13.0	4.4	4.4			
Q1044	0/0		0/5.5		0.7/0.6				160.80,40,20,15/10m
Q1045	8.0/8.0		8.0/8.0		7.4/7.5				160.80,40,20,15/10m
Q1047	0	0	3.2	3.2	0	0			
Q1048	1.4	1.4	12.4	12.4	1.4	1.4	3.2	3.2	
Q1049	0	0	-1.0	5.3	-4.8	-4.8			
Q1050	4.0	4.0	12.6	12.6	4.8	4.8			
Q1052	4.8	4.8	0	0	4.3	4.3			
Q1053	5.1	5.1	8.0	8.0	3.2	3.2			
Q1055	0	0	8.0	0	0	0.7			
Q1056	6.7	8.0	-9.8	7.3	8.0	6.7			
Q1057	8.0	8.0	7.3	-0.6	6.7	8.0			
Q1058		IN 13.5		OUT 8.0					
Q1059	-1.0	7.3	-0.6	7.3	-0.1	6.7			
Q1061	0/0		0/0.7		0.7/0				CW KEY UP/DOWN
Q1062	0/0		0/0		0.7/0.7				CW KEY UP/DOWN
Q1063	8.0	8.0	-4.8	-4.8	8.0	8.0			CW KEY UP/DOWN
Q1064	0/0		0.8/0		0/0.7				CW KEY UP/DOWN
Q1065	0	0	7.3/-0.6		-0.6	-0.2			
Q1066	0.3	0.3	-1.0	7.3	-0.6	-0.2			
Q1067									

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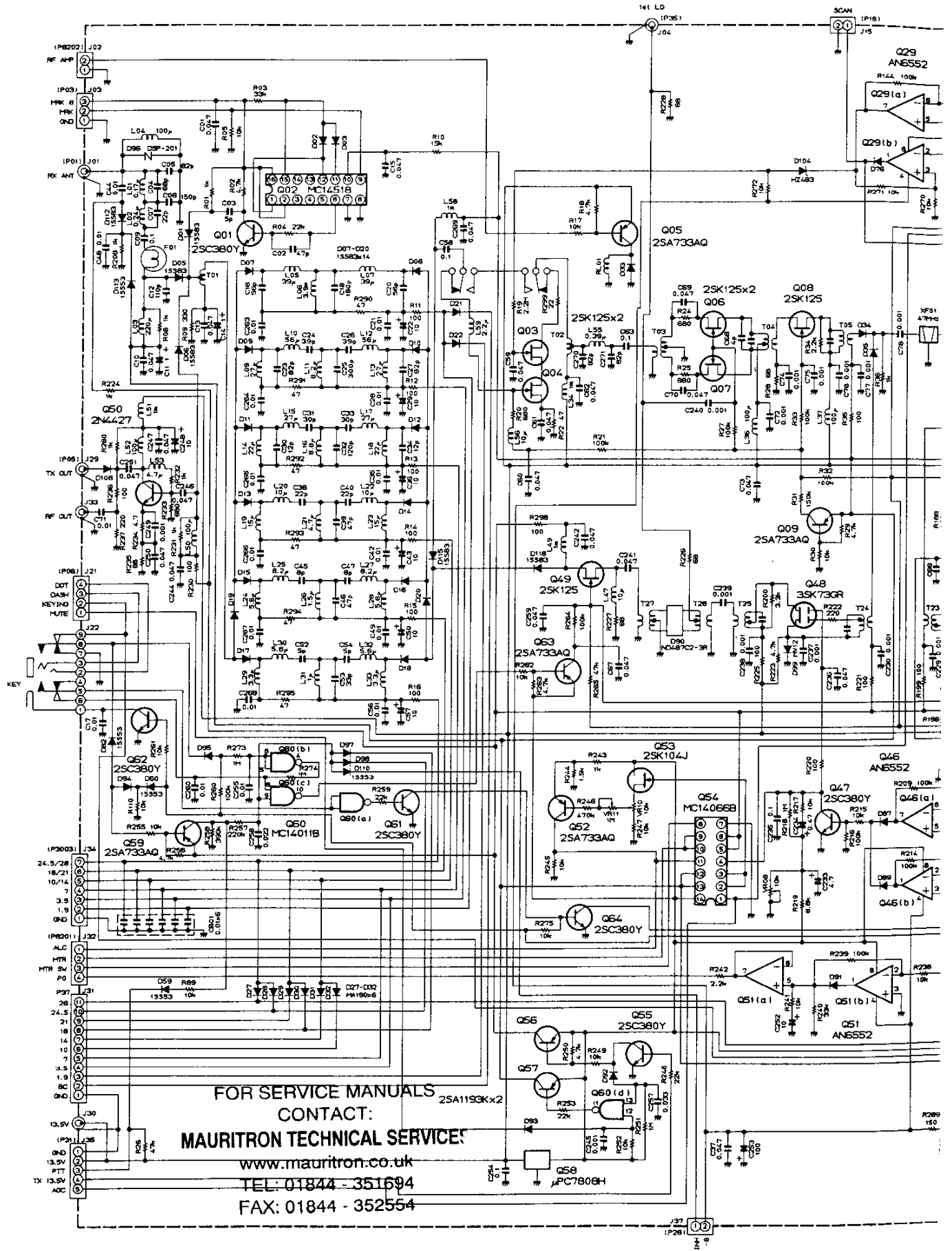
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TEL: 01844 - 351694

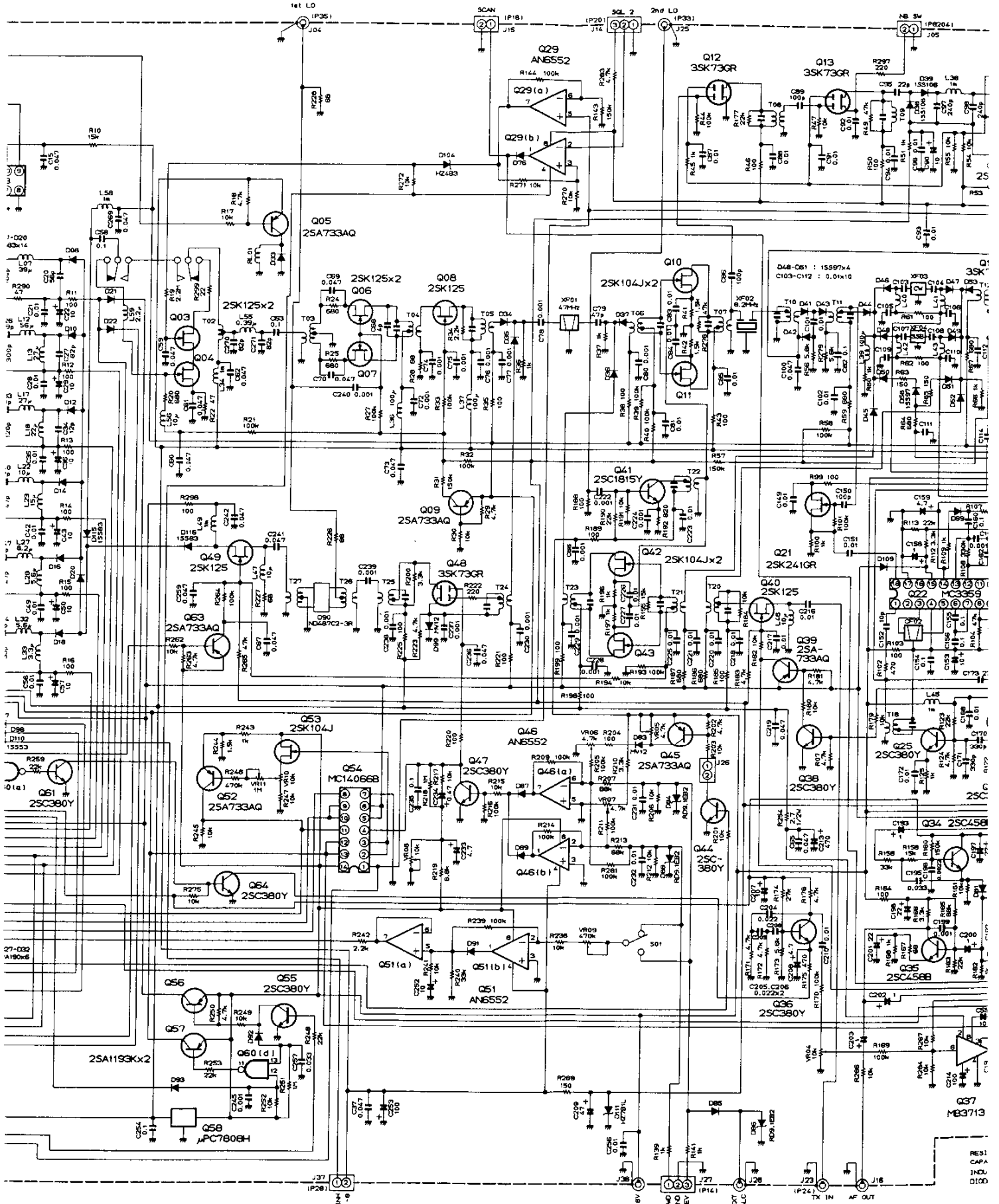
FAX: 01844 - 352554

RF UNIT SCHEMATIC DIAGRAM

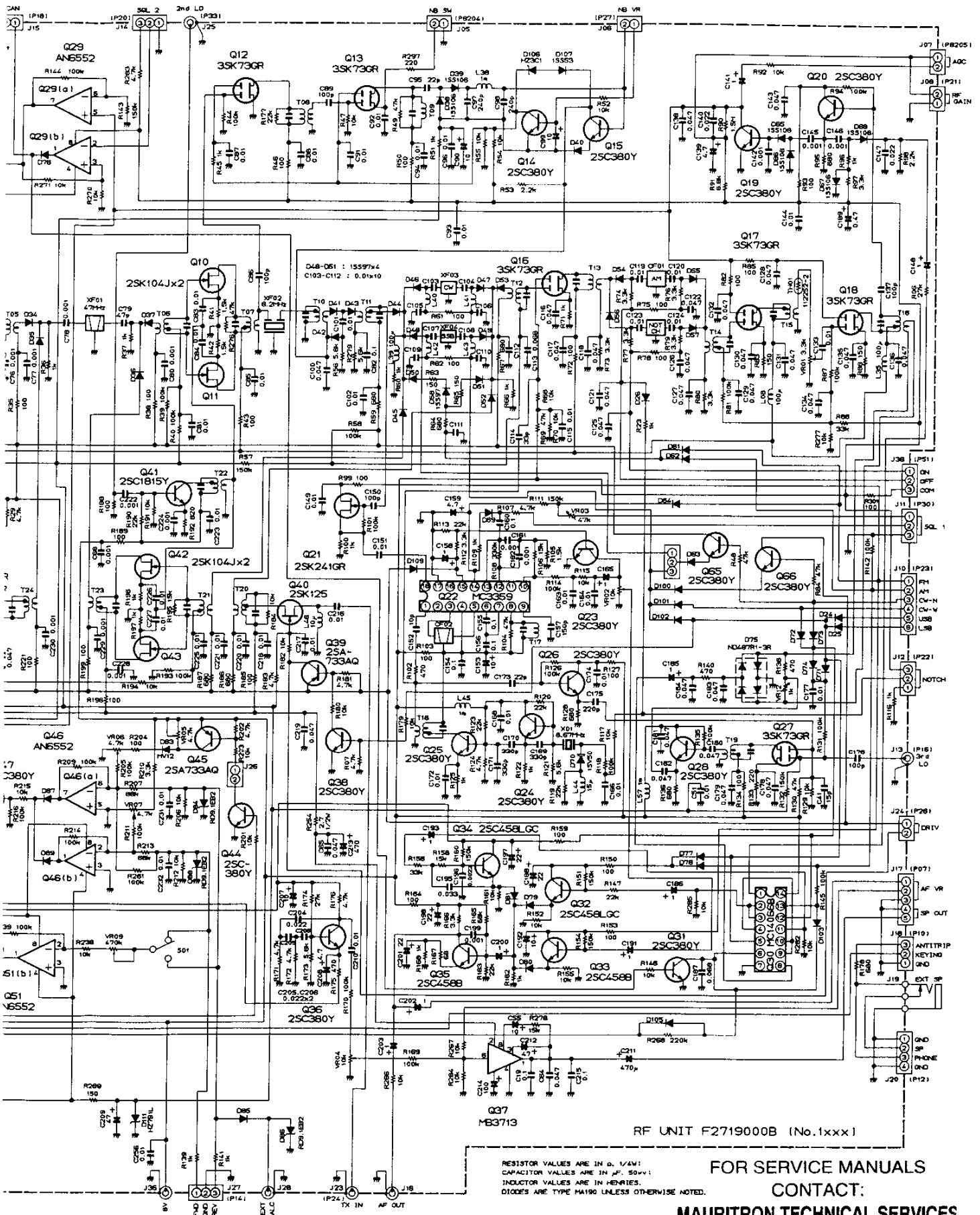


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RF UNIT SCHEMATIC DIAGRAM



DIAGRAM



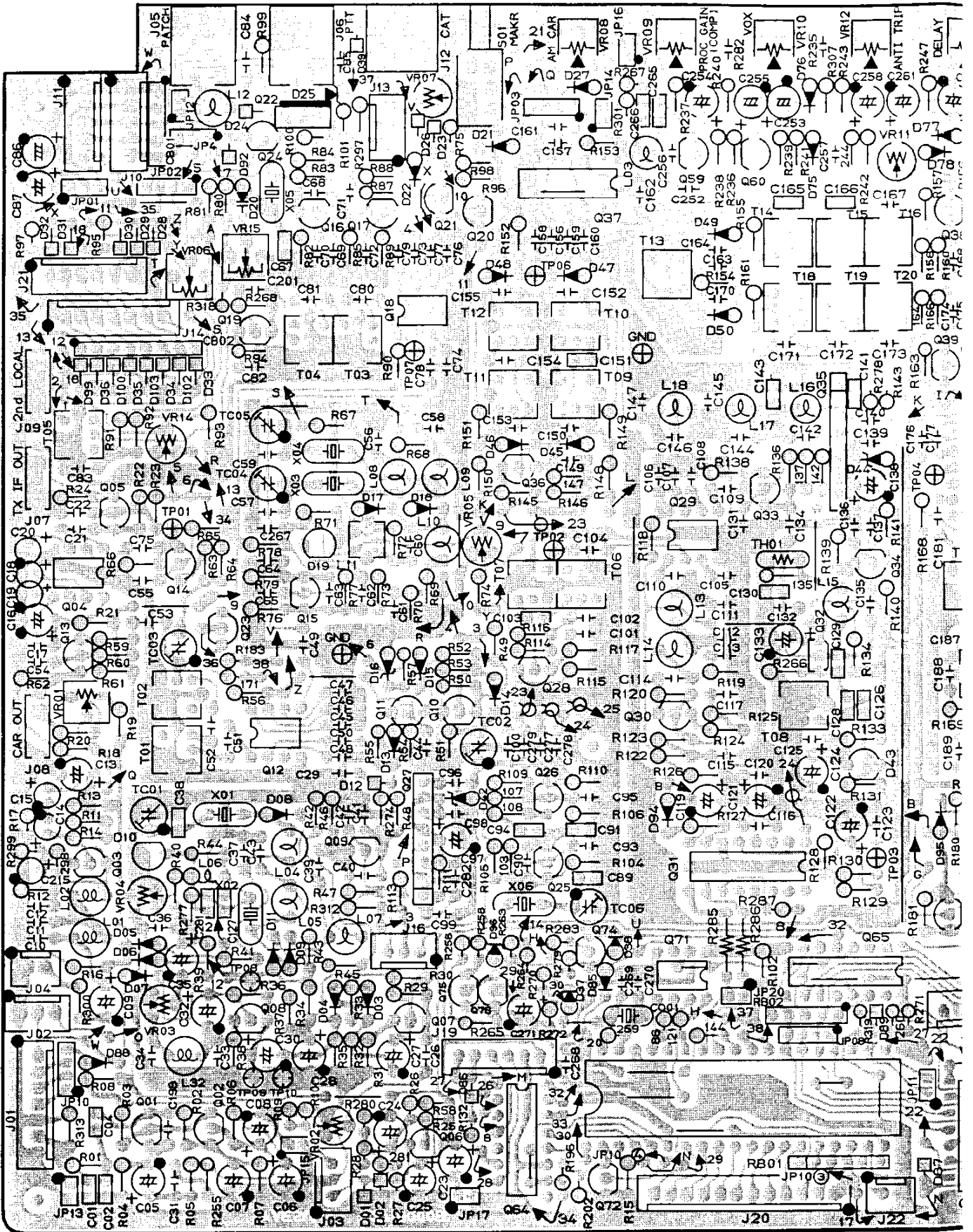
RESISTOR VALUES ARE IN Ω , μ M, K, M;
 CAPACITOR VALUES ARE IN μ F, 50 μ V;
 INDUCTOR VALUES ARE IN HENRIES.
 DIODES ARE TYPE MA190 UNLESS OTHERWISE NOTED.

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LOCAL UNIT PARTS LAY

Component Side



LOCAL UNIT PARTS LAYOUT

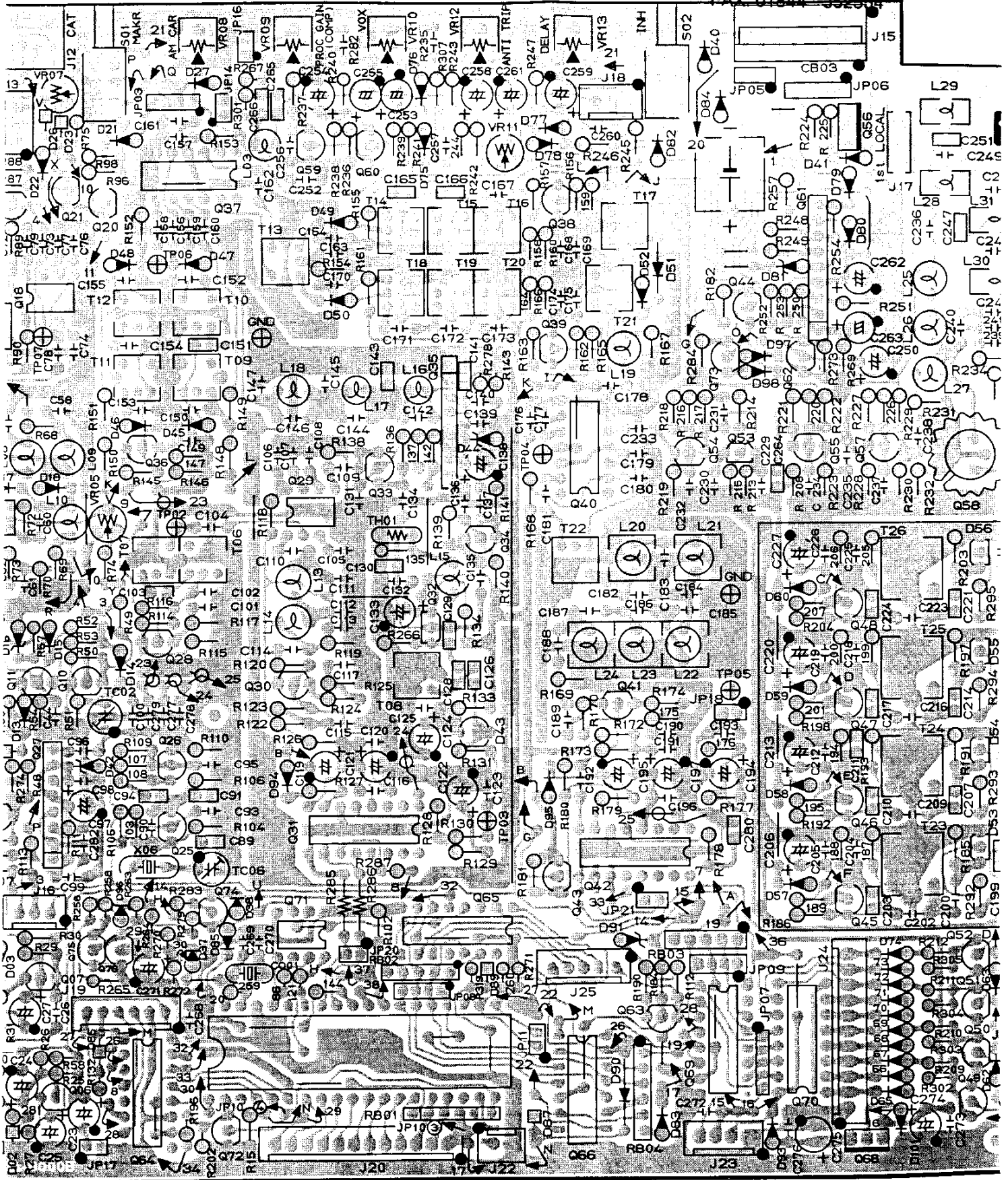
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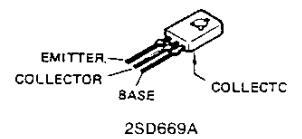
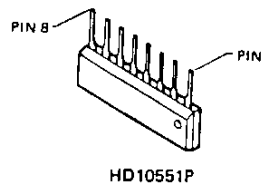
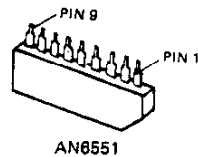
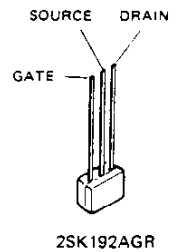
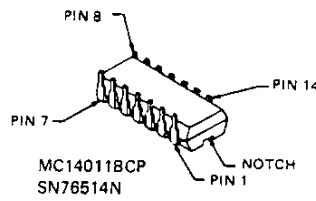
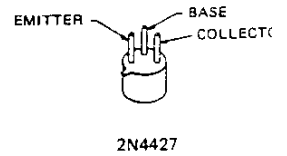
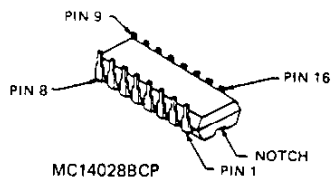
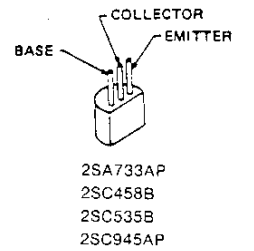
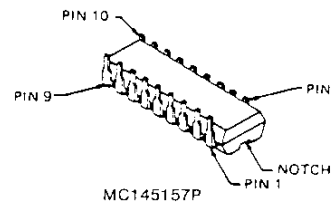
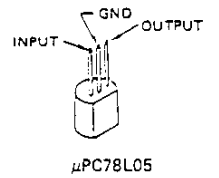
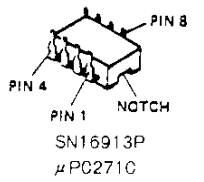
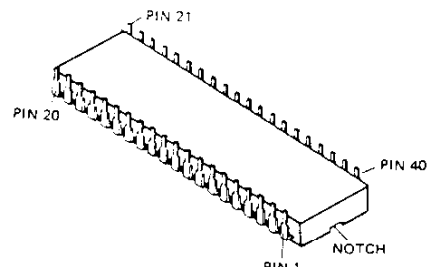
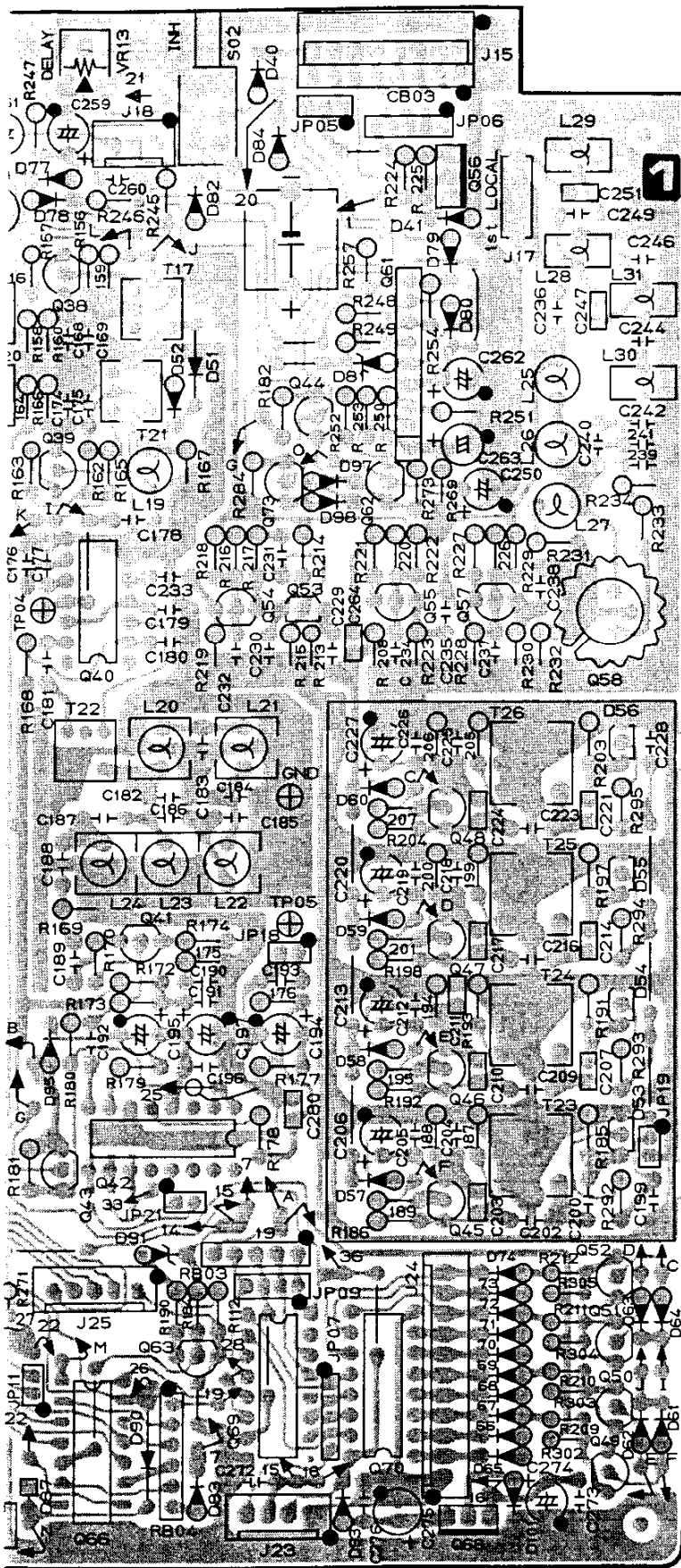
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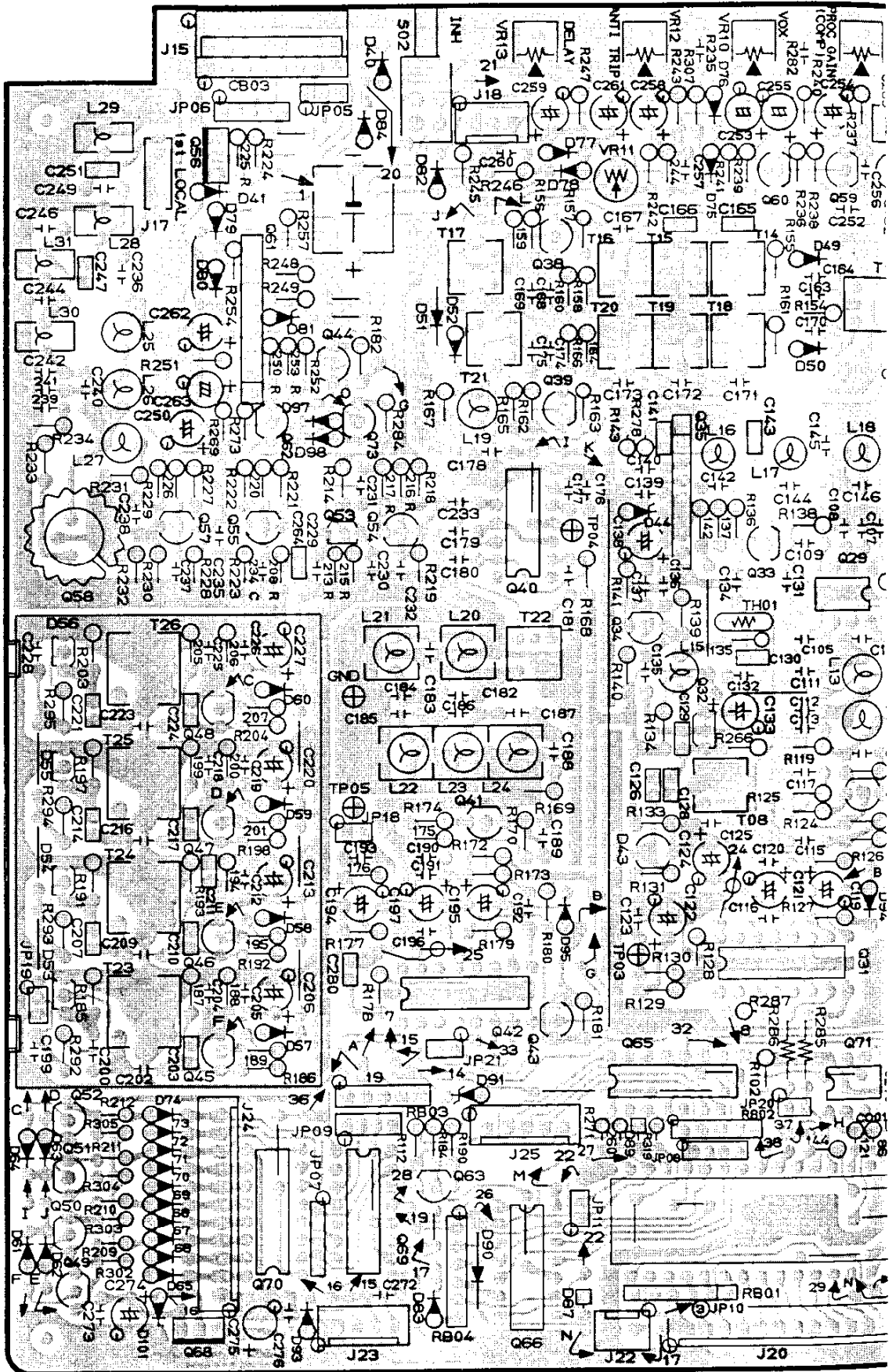
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Component Side





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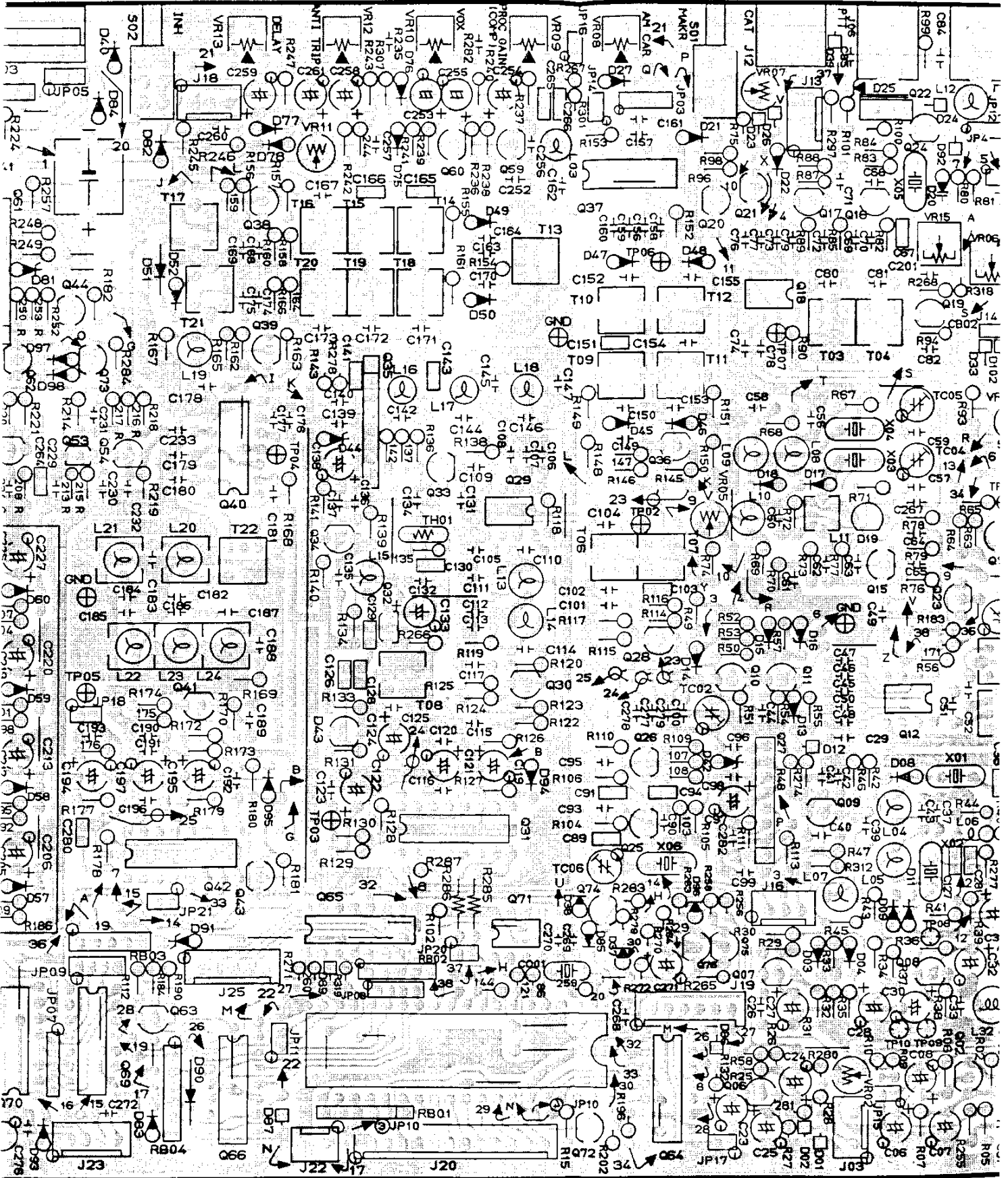
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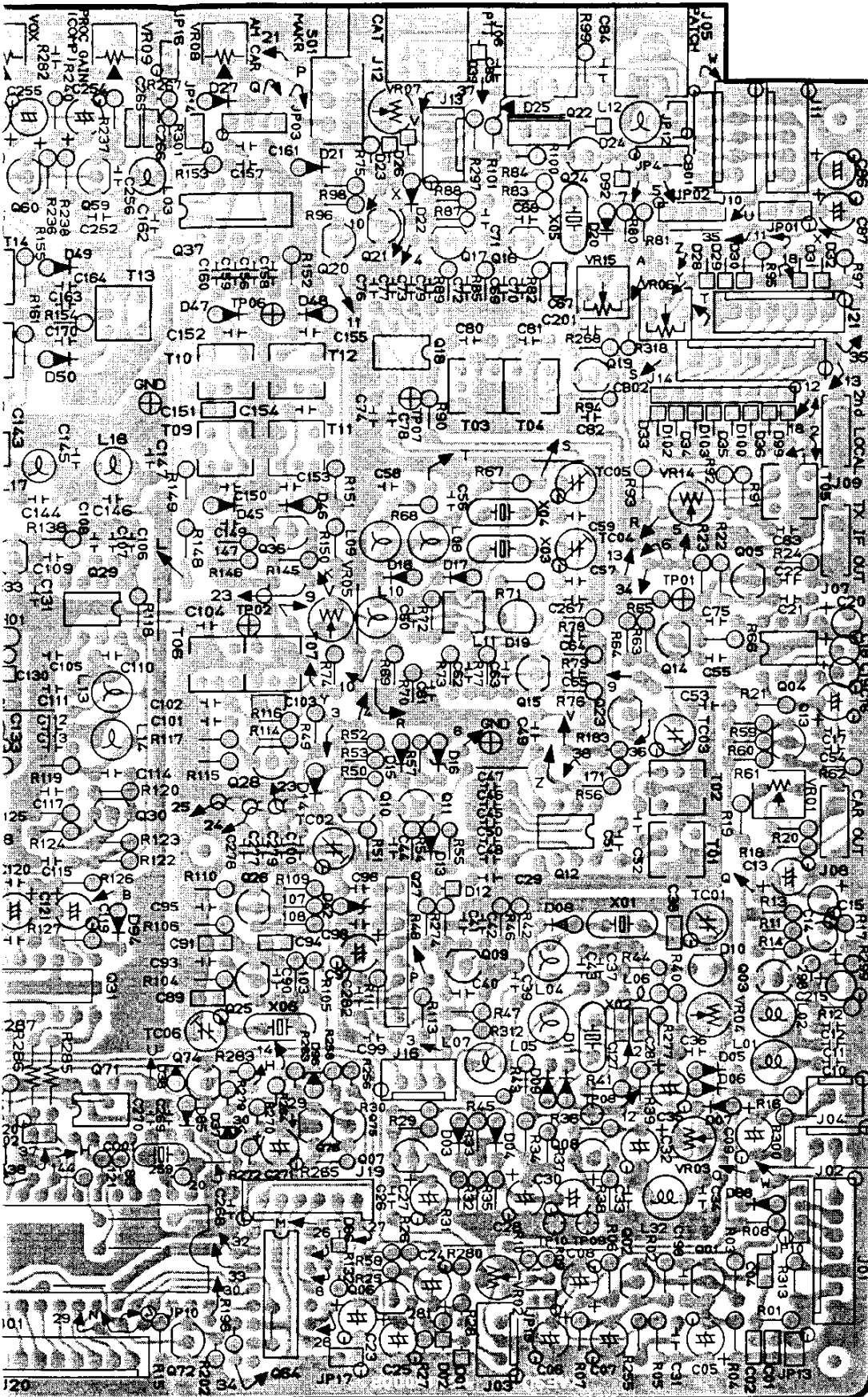
LOCAL UNIT PARTS LAYOUT

Solder Side



L UNIT PARTS LAYOUT

Solder Side



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LOCAL UNIT VOLTAGE CHART

(DC VOLTS)

	E		(S)		C		(D)		B		(G ₁)		(G ₂)		REMARKS
	R	T	R	T	R	T	R	T	R	T	R	T	R	T	
Q2001	0.1	0.1	1.6	1.6	0.8	0.8									
Q2002	0.9	0.9	3.5	3.5	1.6	1.6									
Q2003	0.7	0.7	7.3	7.3	1.4	1.4									
Q2005	0	1.6	0	12.5	0	2.3									
Q2006	0.3	0.3	1.8	1.8	1.0	1.0									
Q2007	0.2	0.2	3.1	3.1	0.9	0.9									MODE FM
Q2008	0.1	0.1	2.3	2.3	0.8	0.8									MODE FM
Q2009	0.8	3.2	0.8	6.0	1.5	3.9									MODE FM
Q2010	0	0	1.9	1.9	0	0									MODE SSB
Q2010	0	0	0.5	0	0.4	0.8									MODE FM
Q2010	0	0	0	1.8	0.8	0.3									MODE CW
Q2010	0	0	0.4	1.8	0	0									MODE AM
Q2011	1.1	1.1	7.1	7.1	1.9	1.9									MODE SSB
Q2011	0	0	0.6	6.8	0.5	0									MODE FM CW
Q2013	1.0	1.0	7.5	7.5	1.7	1.7									
Q2014	4.1	4.1	7.6	7.6	4.8	4.8									
Q2015	1.6	1.6	7.6	7.6	2.3	2.3									
Q2016	1.8	1.8	7.8	7.8	2.4	2.4									
Q2017	1.0	1.0	7.5	7.5	1.7	1.7									
Q2019	1.4	1.4	7.7	7.7	2.2	2.2									
Q2020	6.0	0.6	11.7	0.7	6.7	1.3									MODE CW
Q2020	0.8	6.3	11.7	0.1	1.0	0.6									MODE SSB,AM,FM
Q2021	0.8	6.3	0.8	12.4	1.5	7.0									MODE FM
Q2022	IN 0	IN 13.5	OUT 0	OUT 5.0											
Q2023	3.9	3.9	4.9	4.9	3.9	3.9									
Q2024	12.4	12.8	12.3	0	11.7	12.6									
Q2025	2.8	2.8	7.7	7.7	2.3	2.3									
Q2026	2.7	2.7	7.4	7.4	3.5	3.5									
Q2028	0.4	0.4	7.9	7.9	0.7	0.7									
Q2030	1.7	1.7	5.0	5.0	2.4	2.4									
Q2032	1.1	1.1	7.4	7.4	0	0									
Q2033	2.9	2.9	7.3	7.3	3.6	3.6									
Q2034	2.9	2.9	7.3	7.3	3.6	3.6									
Q2036	0.4	0.4	5.3	5.3	0.5	0.5									40m
Q2036	0.4	5.2	5.2	5.2	0.5	0.5									15m
Q2038	1.0	1.0	6.2	6.2	1.8	1.8									40m
Q2039	1.0	1.0	6.2	6.2	1.8	1.8									15m
Q2041	1.3	1.3	5.0	5.0	2.0	2.0									
Q2043	6.8	6.8	0	0	6.8	6.8									
Q2044	0	0	1.4	1.4	0.1	0.1									
Q2045	2.7	2.7	7.3	7.3	3.4	3.4									40m
Q2046	2.7	2.7	7.3	7.3	3.4	3.4									20m
Q2047	2.7	2.7	7.3	7.3	3.4	3.4									15m
Q2048	3.2	3.2	7.2	7.2	4.0	4.0									10m
Q2049	8.0	8.0	7.8	7.8	7.2	7.2									40m
Q2050	8.0	8.0	7.8	7.8	7.2	7.2									20m
Q2051	8.0	8.0	7.8	7.8	7.2	7.2									15m
Q2052	8.0	8.0	7.8	7.8	7.2	7.2									10m
Q2053	1.4	1.4	7.7	7.7	0	0									
Q2054	0.6	0.6	7.7	7.7	1.4	1.4									
Q2055	2.0	2.0	7.6	7.6	2.8	2.8									
Q2056	0	0	—	0	0	0.7									
Q2057	1.8	1.8	7.6	7.6	2.1	2.1									
Q2058	2.3	2.3	7.9	7.9	3.0	3.0									
Q2059	0.1	0.1	1.5	1.5	0.7	0.7									
Q2060	0.9	0.9	5.2	5.2	1.5	1.5									
Q2062	0	0	13.0	0	0.2	0.2									VOX SW ON
Q2063	0	0	0.1	0.1	0.7	0.7									
Q2068	IN 13.5	IN 13.5	OUT 5.8	OUT 5.8											
Q2072	0	0	4.7	0	0	0.7									
Q2073	1.4	1.4	1.4	1.4	2.1	2.1									LINER SW ON
Q2074	4.9	4.9	4.9	4.9	4.3	4.3									
Q2075	0.8	0.8	0.9	0.9	1.4	1.4									
Q2076	0.8	0.8	8.6	8.6	0.9	0.9									

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LOCAL UNIT IC VOLTAGE CHART

(DC VOLTS)

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	REMARKS
Q2004	—	—	2.5	0	—	3.5	3.5	7.0											
Q2012	—	—	2.3	0	—	3.1	3.1	6.3											
Q2018	—	—	2.5	0	—	3.5	3.5	7.0											
Q2027	0	0	—	0	48/07	0	49/06	—											MARKER ON/OFF
Q2029	—	—	2.5	0	—	3.5	3.5	7.0											
Q2031	—	—	—	6.9	—	0	—	—	—	—	—	—	—	—	—	—	—	—	
Q2040	—	7.6	—	—	—	0	—	—	—	—	—	—	—	—	—	—	—	—	
Q2042	—	—	—	6.7	—	0	—	—	—	—	—	—	—	—	—	—	—	—	
Q2061	7.6	1.3	2.7	0.7	0	3.4	6.7	1.3	—										
Q2064	—	—	—	—	—	—	—	0	—	—	0	—	—	—	—	—	—	—	4.9
Q2065	—	—	—	—	—	5.0	—	0	—	—	—	—	—	—	—	—	—	—	5.0
Q2066	—	—	—	—	—	—	—	0	0	—	—	—	—	—	—	—	—	—	4.9
Q2069	—	—	—	—	—	4.9	—	0	—	—	—	—	—	—	—	—	—	—	4.9
Q2070	12.8	12.8	13.5	13.5	2.6	0.6	12.8	0	12.8	12.3	12.2	0	5.0	0	5.0	5.0			20m
Q2071	0	—	—	—	—	—	—	4.9											

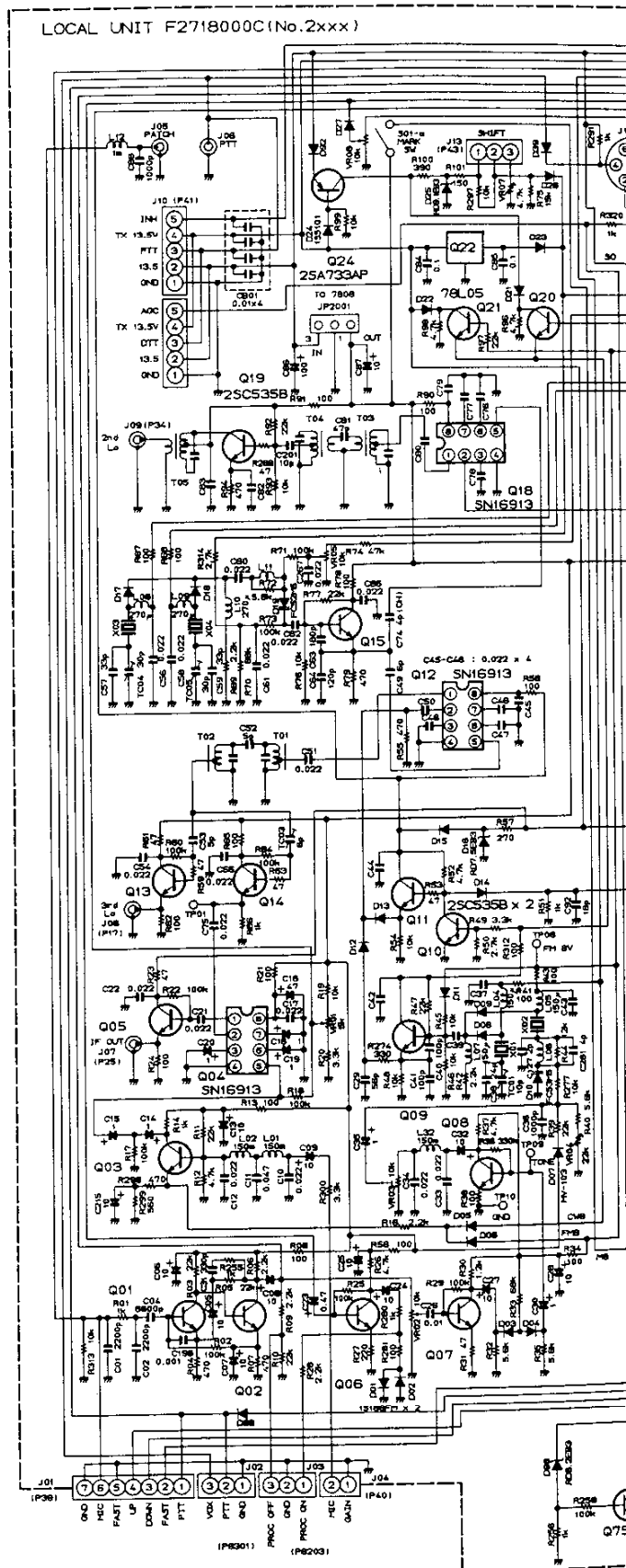
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VOLTAGE CHART

(DC VOLTS)

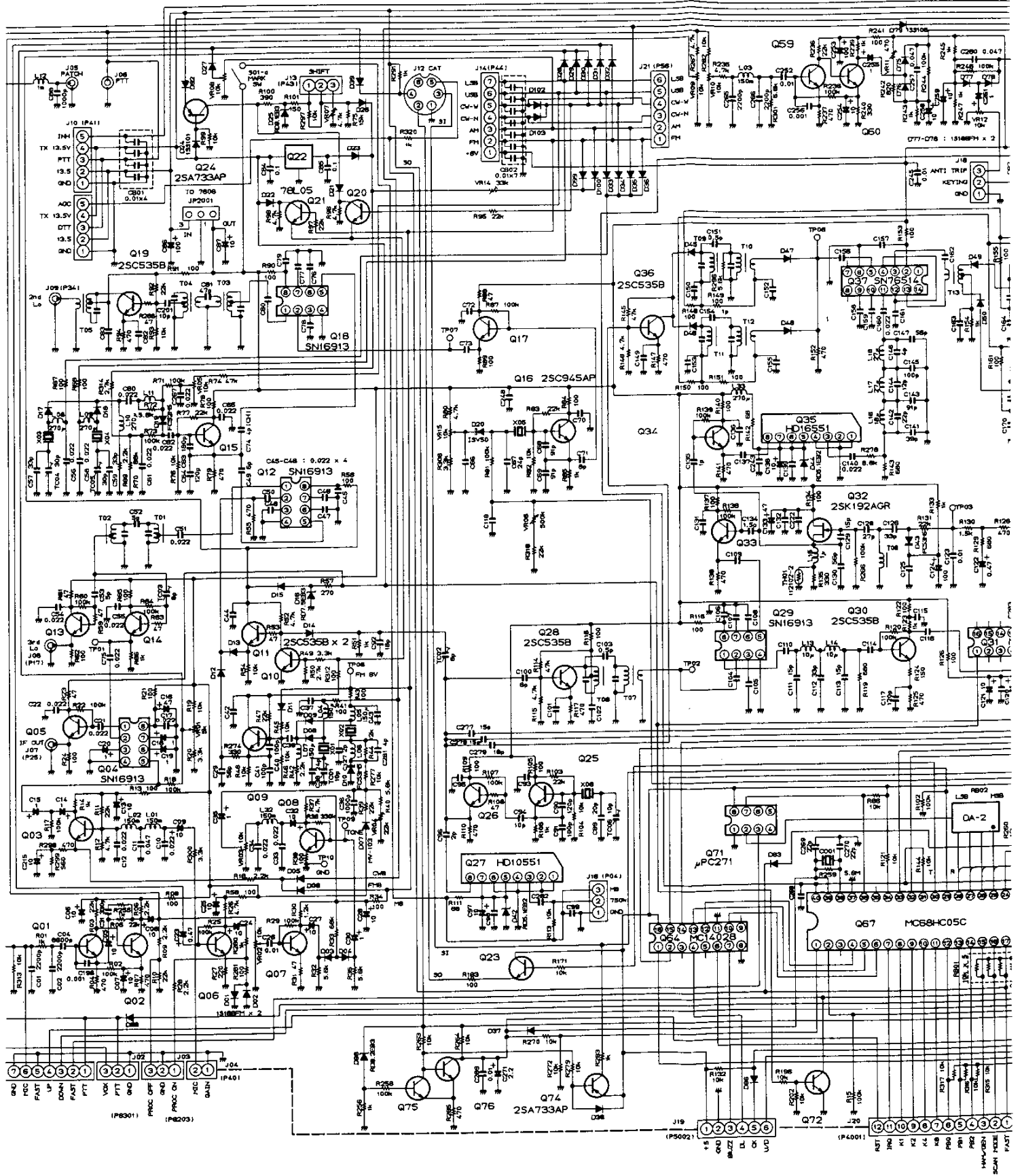
10	11	12	13	14	15	16	17	18	REMARKS
									MARKER ON/OFF
-	-	-	-	-	-	-	-	-	
-	0	-	-	-	-	4.9			
-	-	-	-	-	-	5.0			
-	-	-	-	-	-	4.9			
-	-	-	-	-	-	4.9			
3; 12.3	12.2	0	5.0	0	5.0	5.0			20m

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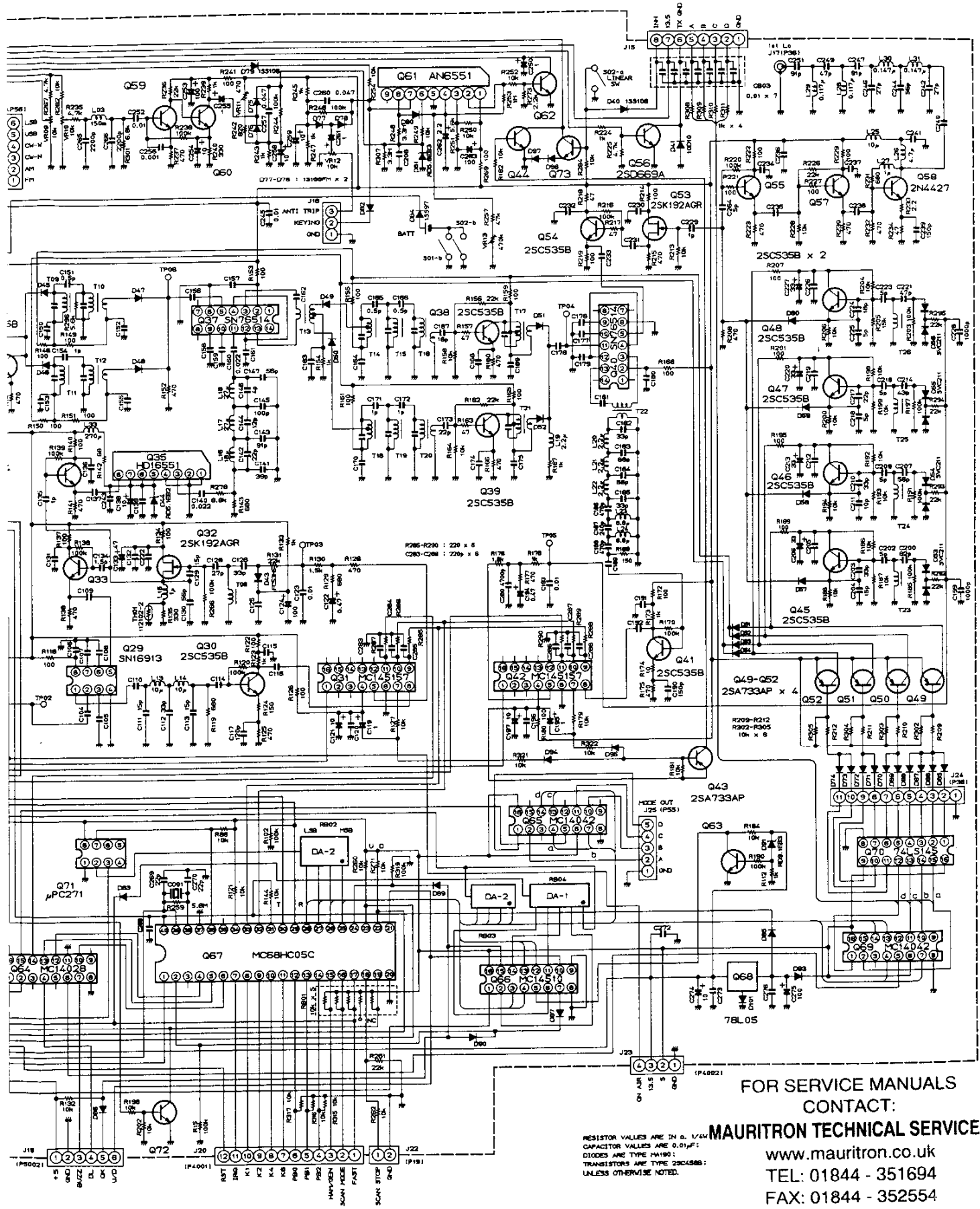


LOCAL UNIT SCHEMATIC DIAGRAM

CAL UNIT F2718000C (No. 2xxx)



SCHEMATIC DIAGRAM



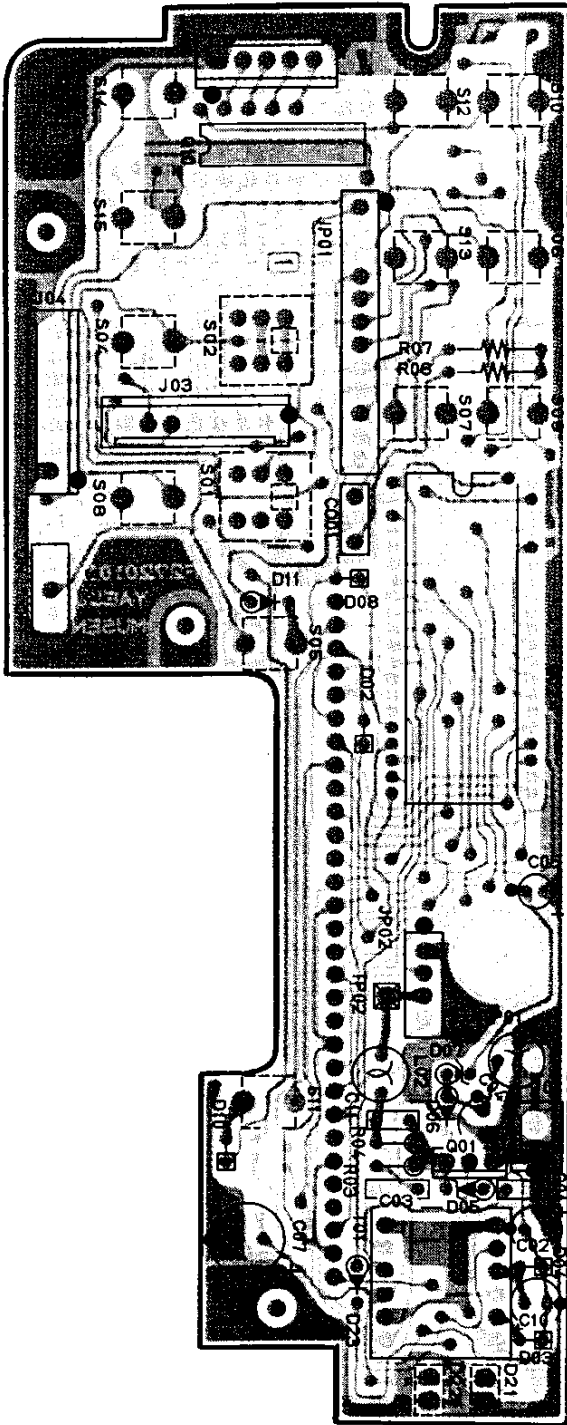
RESISTOR VALUES ARE IN Ω, 1/kΩ
 CAPACITOR VALUES ARE 0.01μF
 DIODES ARE TYPE 1N4190
 TRANSISTORS ARE TYPE 2SC458B
 UNLESS OTHERWISE NOTED.

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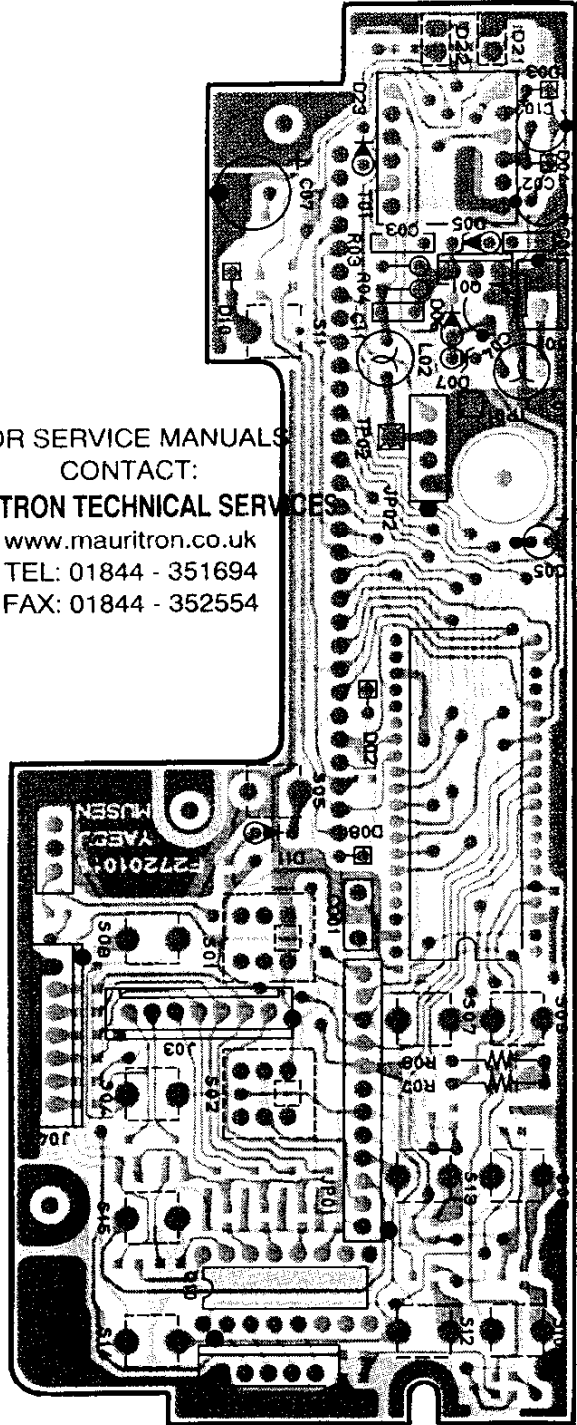
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 FAX: 01844 - 352554

DISPLAY UNIT PARTS LAYOUT

Component Side



Solder Side

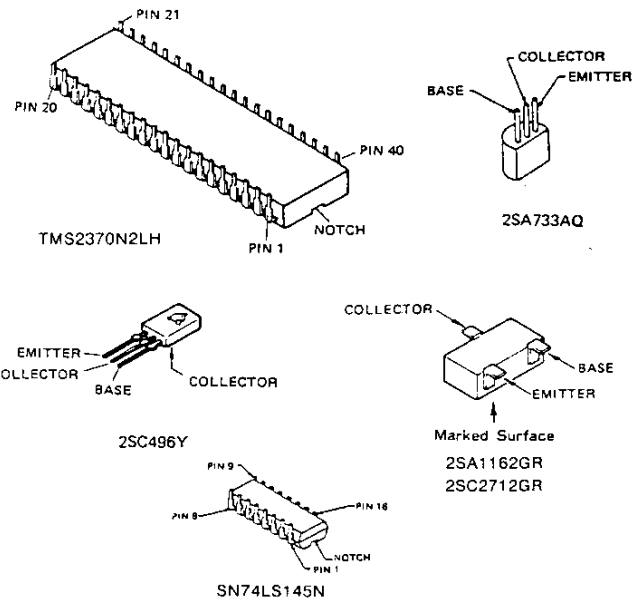
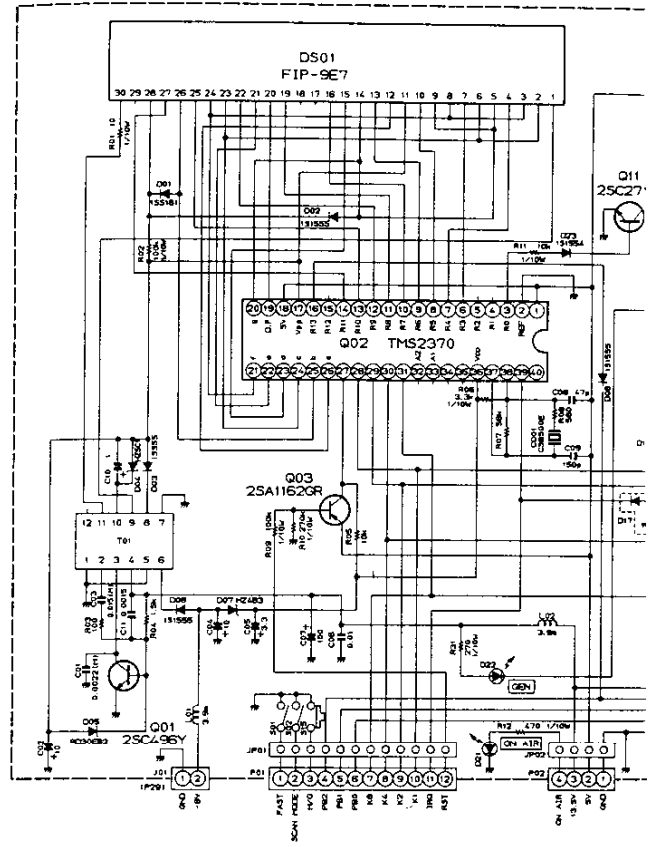
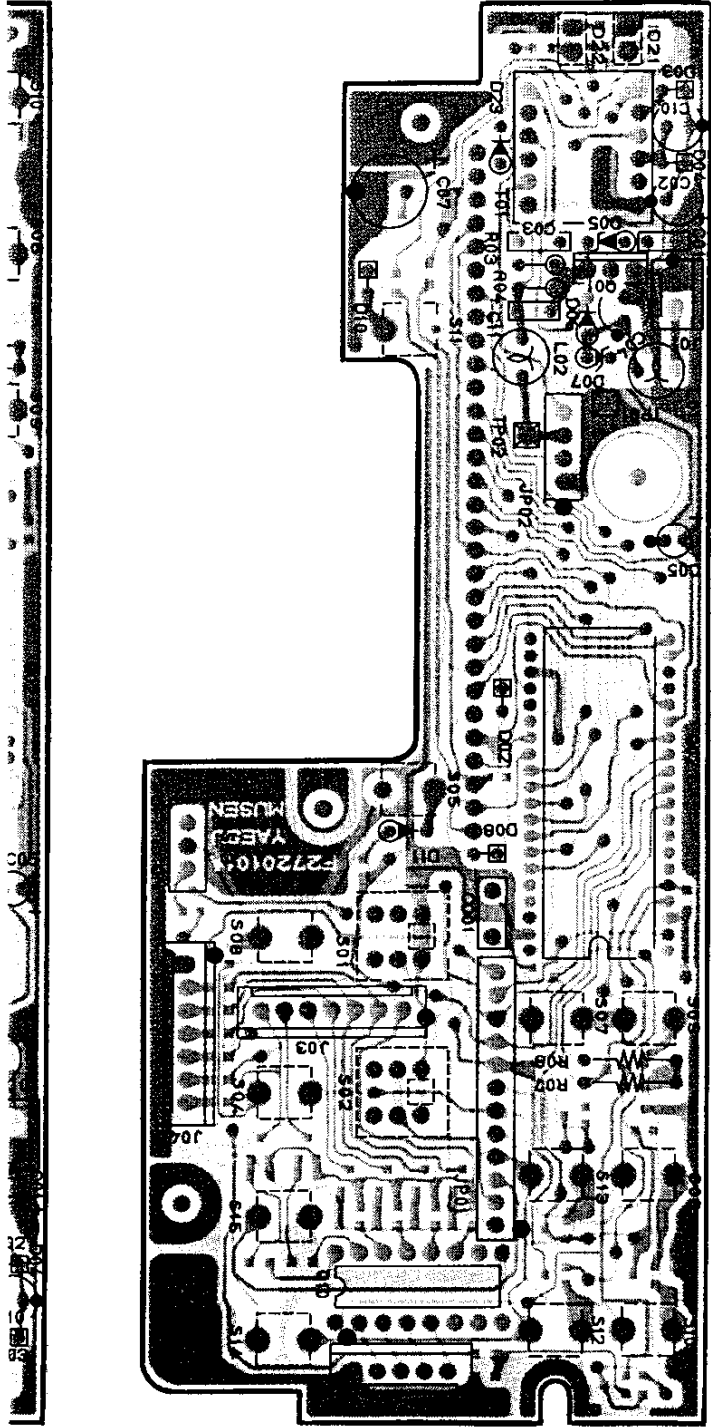


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P
E
COL:

UNIT PARTS LAYOUT

Solder Side

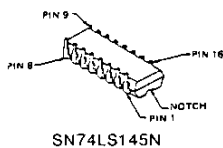
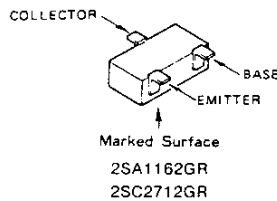
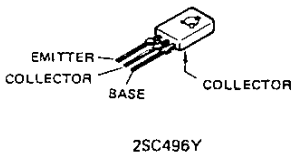
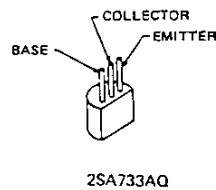
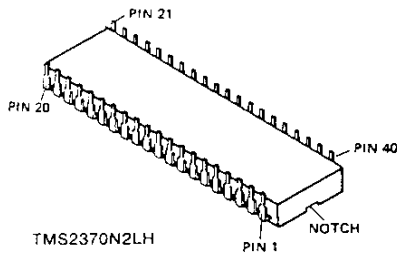
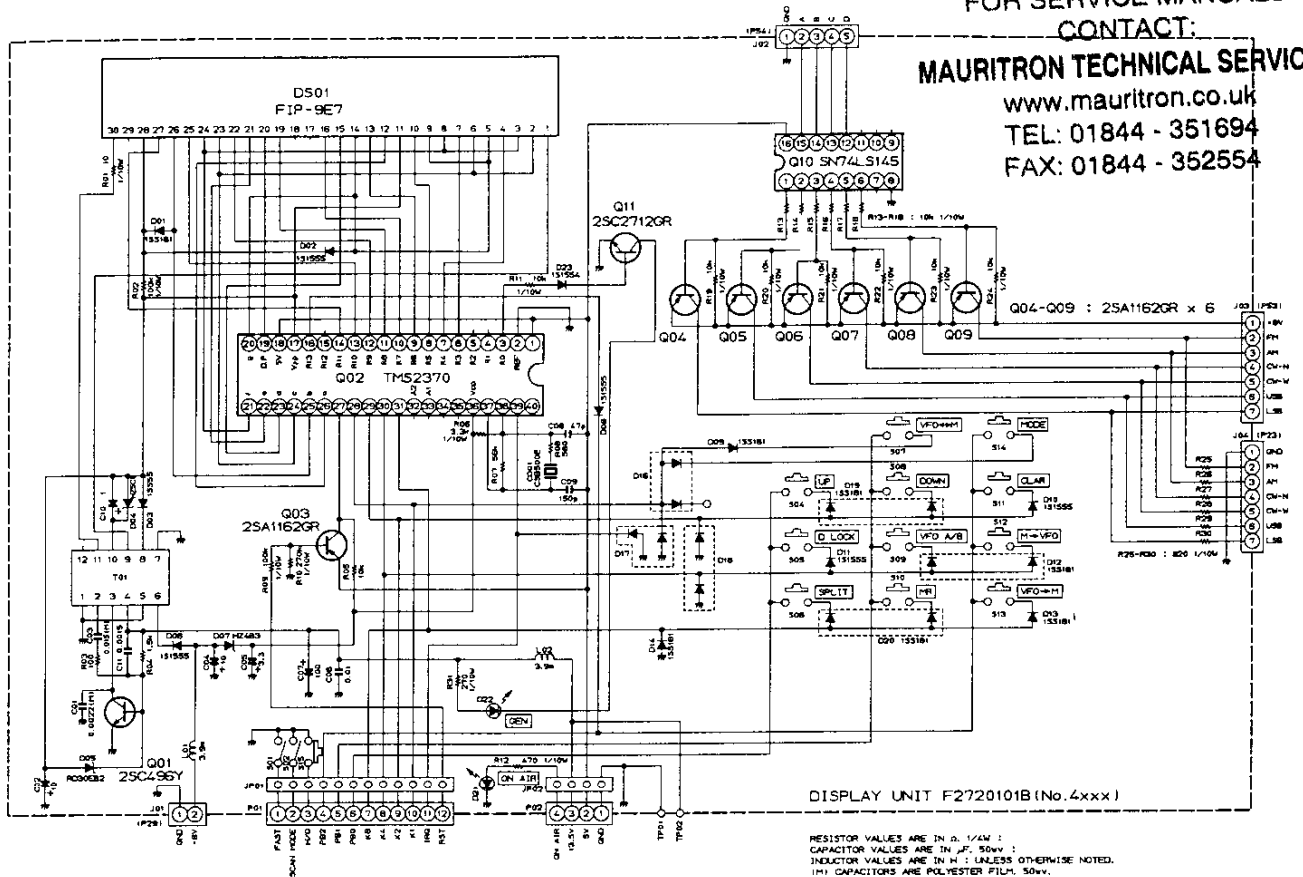


DISPLAY UNIT I

	1	2	3	4	5	6	7	8
Q4010	0.1	7.4	7.4	7.4	7.2	7.4	—	0
Q4010	7.3	0.1	7.5	7.3	7.4	7.4	—	0
Q4010	7.3	7.4	0.1	7.2	7.4	7.5	—	0
Q4010	7.4	7.2	7.3	0.1	7.5	7.5	—	0
Q4010	7.3	7.5	7.5	7.5	0.1	7.2	—	0
Q4010	7.4	7.3	7.5	7.4	7.4	0.1	—	0

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DISPLAY UNIT VOLTAGE CHART

(DC VOLTS)

	E		(S)		C		(D)		B		(G ₁)		REMARKS
	R	T	R	T	R	T	R	T	R	T			
Q4001	0	0	12.3	12.3	-0.4	-0.4							
Q4003	5.0	5.0	-4.0	-4.0	6.1	6.1							
Q4004	8.0	8.0	7.8	7.8	7.2	6.1	MODE					LSB	
Q4005	8.0	8.0	7.8	7.8	7.2	6.1	MODE					USB	
Q4006	8.0	8.0	7.8	7.8	7.2	6.1	MODE					CW-W	
Q4007	8.0	8.0	7.8	7.8	7.2	6.1	MODE					CW-N	
Q4008	8.0	8.0	7.8	7.8	7.2	6.1	MODE					AM	
Q4009	8.0	8.0	7.8	7.8	7.2	6.1	MODE					FM	
Q4011	0/0	0/0	11.0/0.3	11.0/0.3	-4.2	-4.2	HAM / GEN						

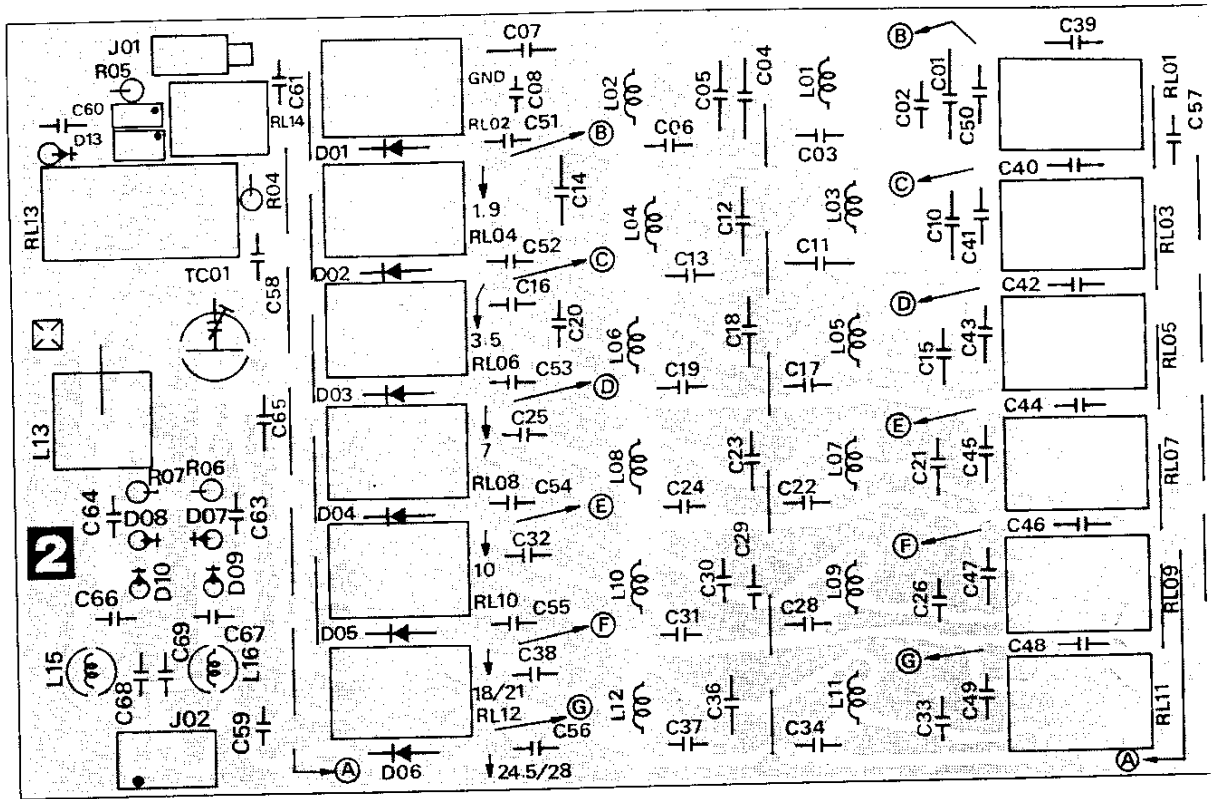
DISPLAY UNIT IC VOLTAGE CHART

(DC VOLTS)

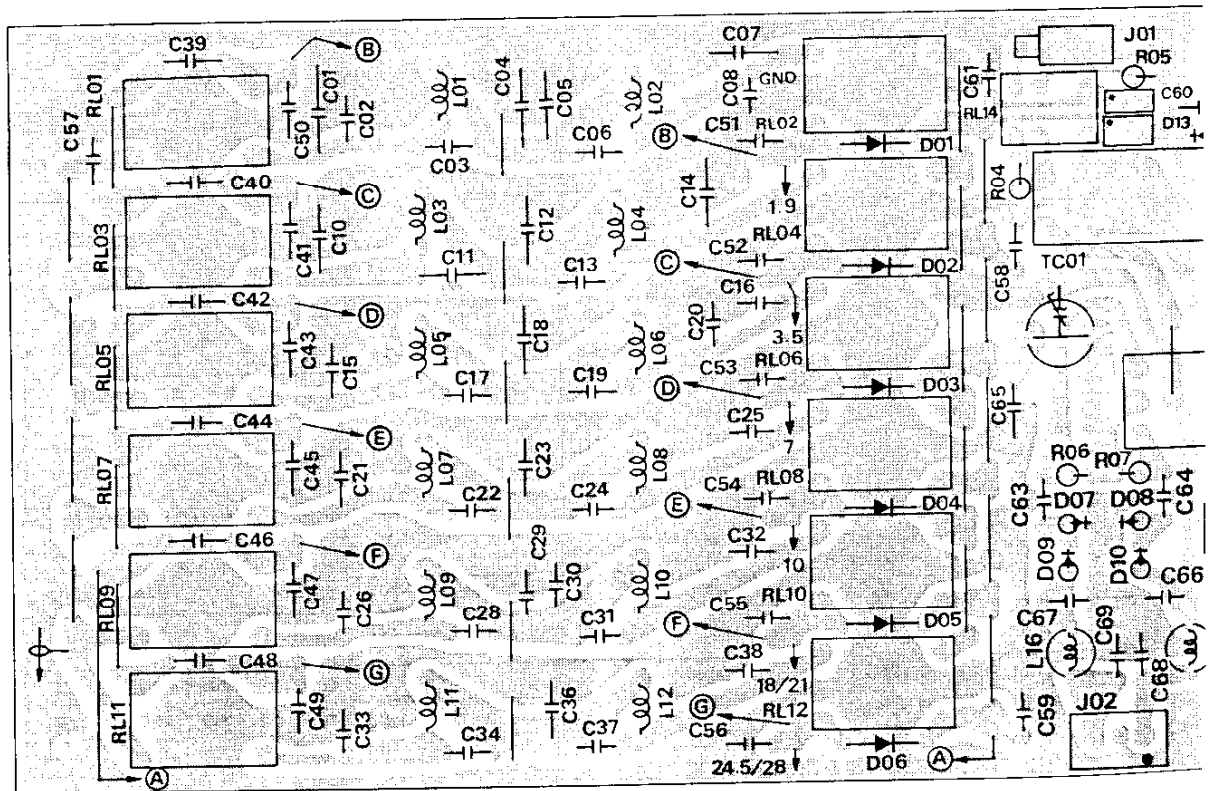
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	REMARKS
Q4010	0.1	7.4	7.4	7.4	7.2	7.4	—	0	—	—	—	0.1	0.1	0.1	0.1	5.0	MODE LSB
Q4010	7.3	0.1	7.5	7.3	7.4	7.4	—	0	—	—	—	0.1	0.1	0.1	0.1	5.0	MODE USB
Q4010	7.3	7.4	0.1	7.2	7.4	7.5	—	0	—	—	—	0.1	0.1	5.0	5.0	5.0	MODE CW-W
Q4010	7.4	7.2	7.3	0.1	7.5	7.5	—	0	—	—	—	0.1	0.1	5.0	5.0	5.0	MODE CW-N
Q4010	7.3	7.5	7.5	7.5	0.1	7.2	—	0	—	—	—	0.1	5.0	0.1	0.1	5.0	MODE AM
Q4010	7.4	7.3	7.5	7.4	7.4	0.1	—	0	—	—	—	0.1	5.0	0.1	5.0	5.0	MODE FM

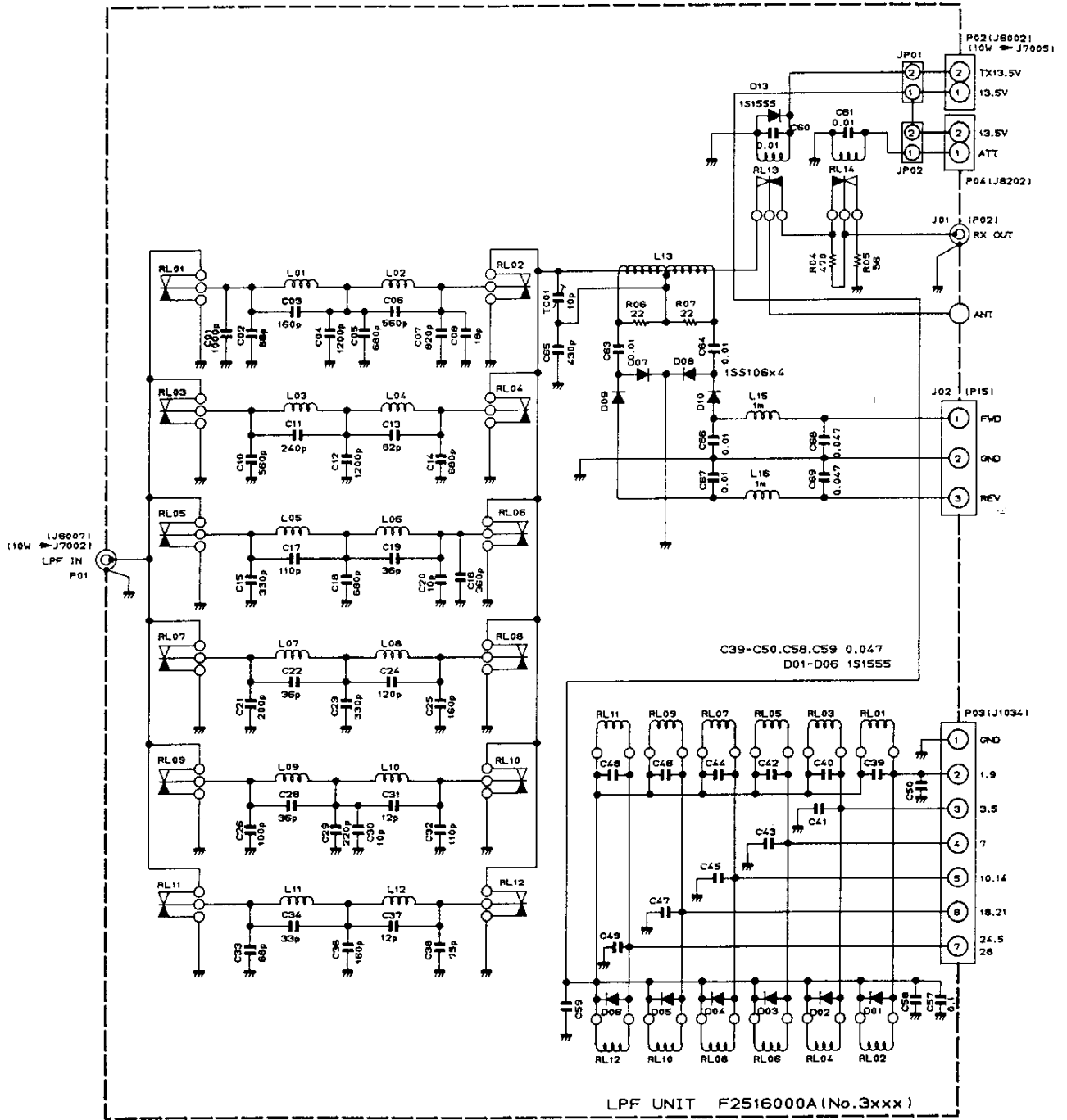
LPF UNIT PARTS LAYOUT

Component Side



Solder Side

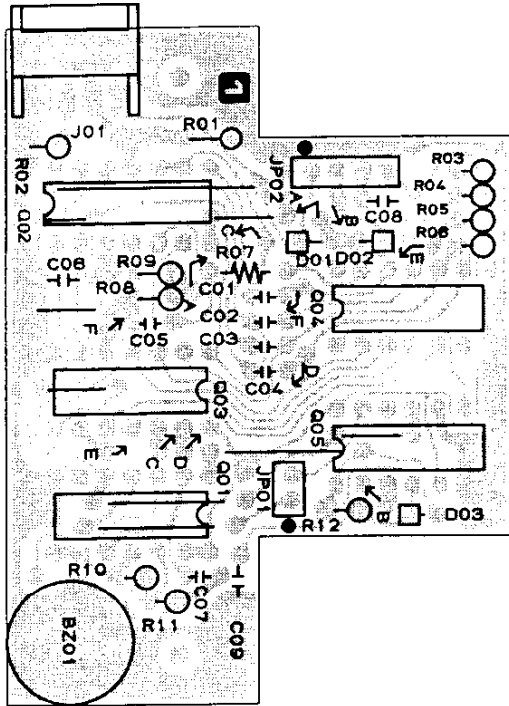




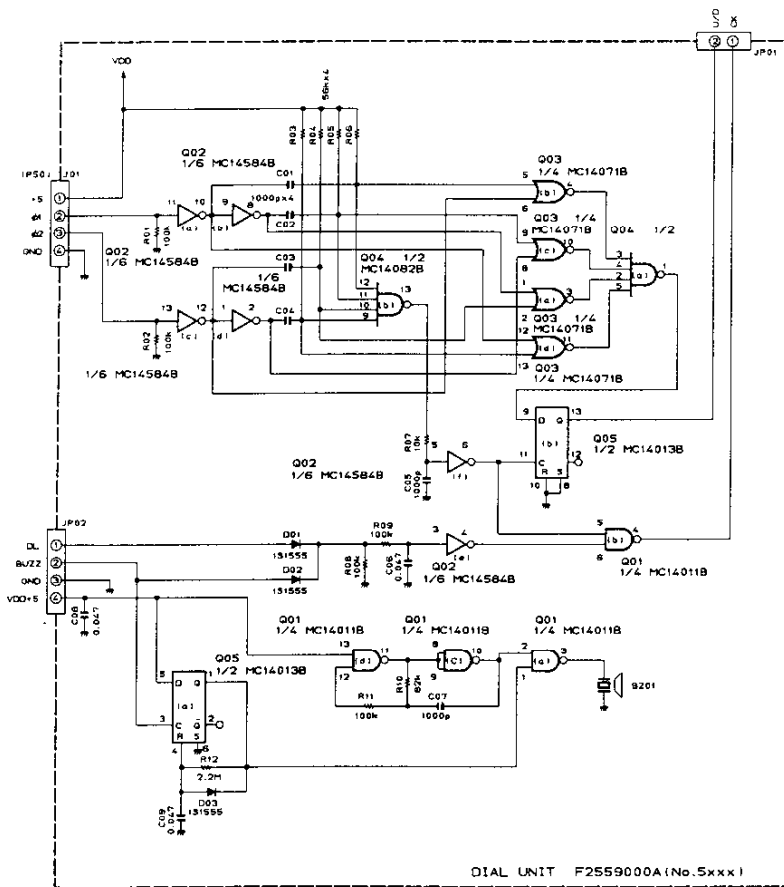
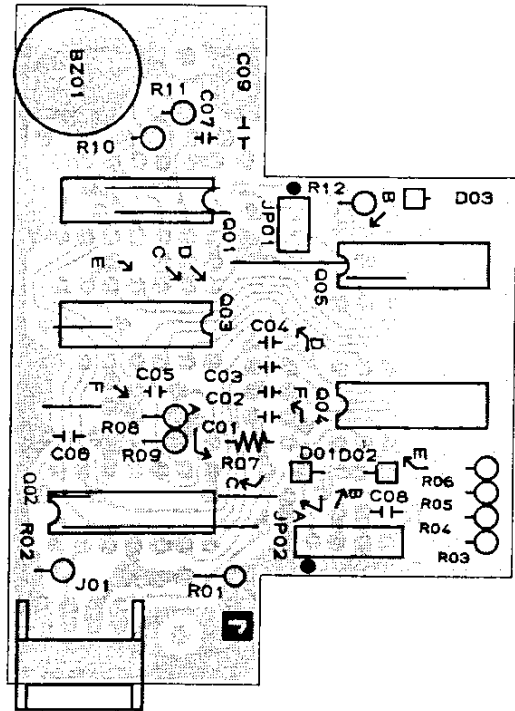
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DIAL UNIT PARTS LAYOUT

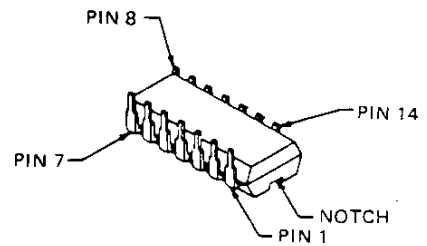
Component Side



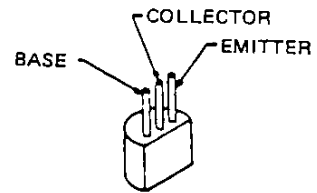
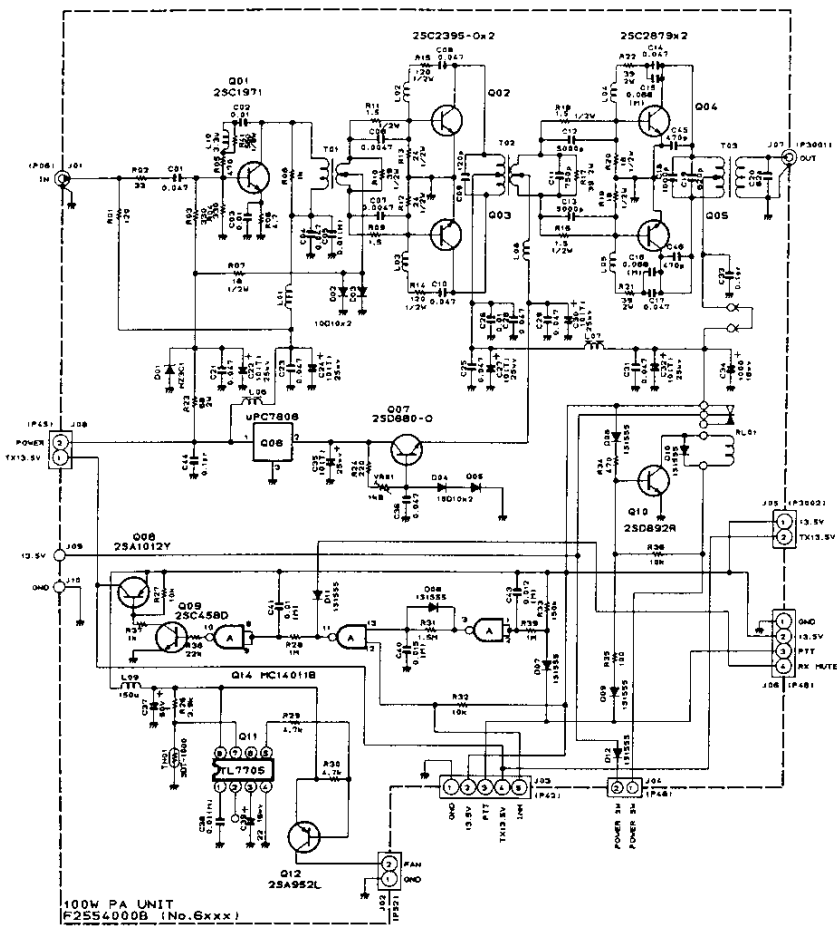
Solder Side



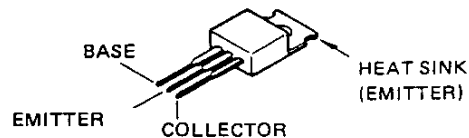
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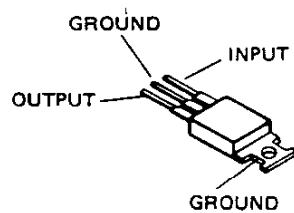
- MC14011BCP
- MC14013BCP
- MC14071BCP
- MC14082BCP
- MC14584BCP



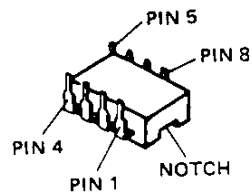
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2SC458D
2SD892R



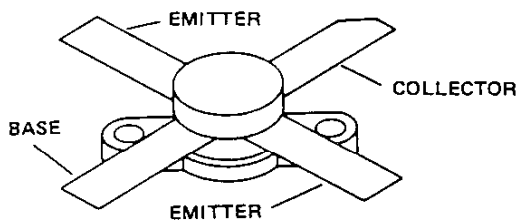
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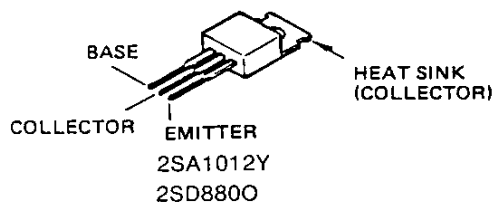
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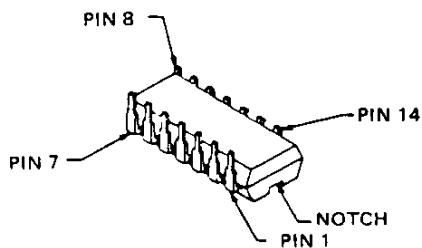
TL7705



2SC2395
2SC2879



2SA1012Y
2SD8800



MC14011BCP

100W PA UNIT VOLTAGE CHART

(DC VOLTS)

	E (S)		C (D)		B (G.)		REMARKS
	R	T	R	T	R	T	
Q6001	—	0.6	—	13.5	—	1.3	
Q6002	—	0	—	13.5	—	0.7	
Q6003	—	0	—	13.5	—	0.7	
Q6004	—	0	—	13.5	—	0.7	
Q6005	—	0	—	13.5	—	0.7	
Q6006	IN 0	IN 13.5	OUT 0	OUT 8.0	8.0		
Q6007	—	0.7	—	8.0	—	1.4	
Q6008	13.5	13.5	0	13.5	13.5	12.8	
Q6009	0	0	13.5	0	0	0.7	
Q6010	0	0	0.7	0.7	1.5	1.5	
Q6012	13.5	13.5	0	0	13.5	13.5	FAN STOP

100W PA UNIT IC VOLTAGE CHART (DC VOLTS)

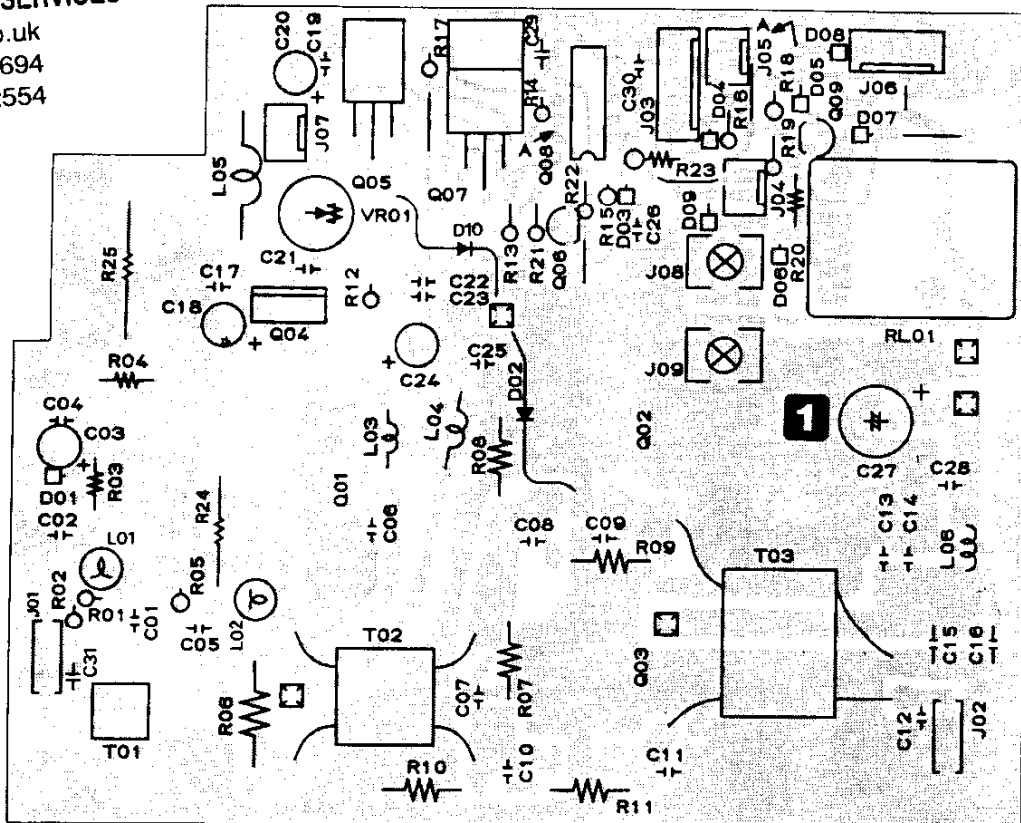
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	REMARKS
Q6011	2.5	—	3.2	0	13.5	—	—	13.5							FAN STOP
Q6014	2.3	12.3	0	—	—	0	12.3	12.3	—	13.5	13.5	0	13.5		RX
Q6014	0.5	0.5	13.4	—	—	0	0.1	0.1	13.3	0.1	13.5	12.3	13.5		TX

10W PA UNIT PARTS LAYOUT

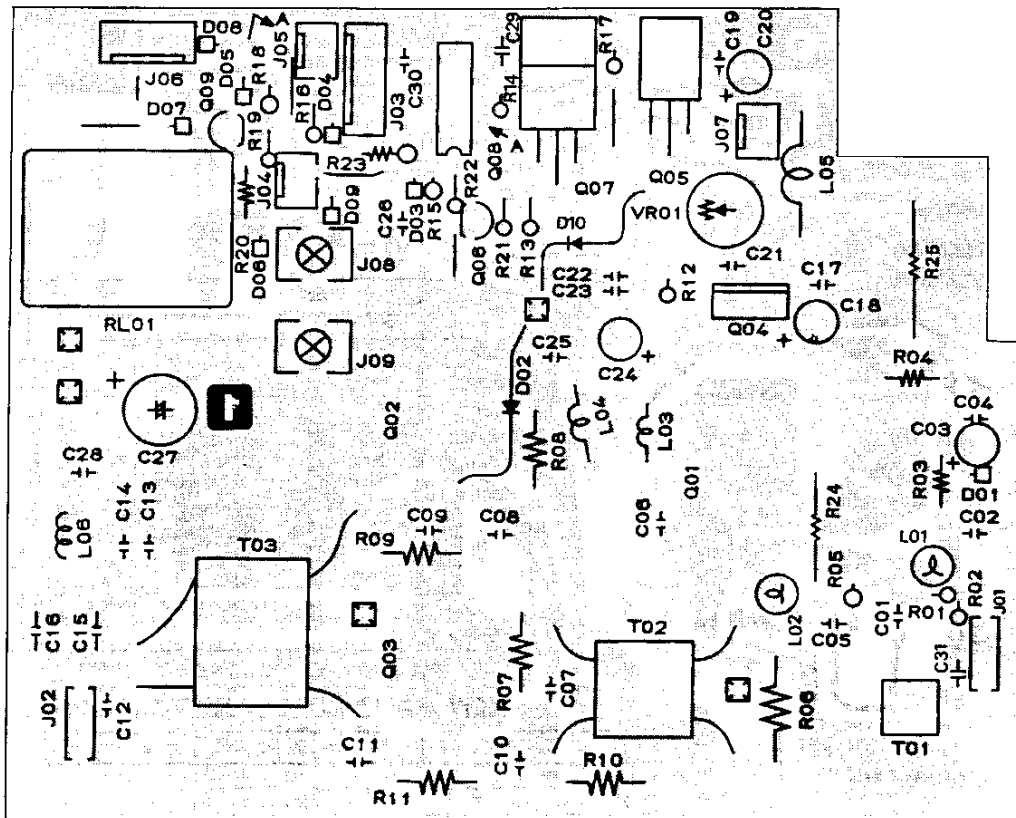
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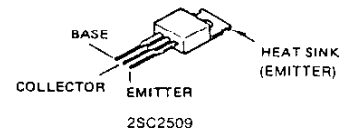
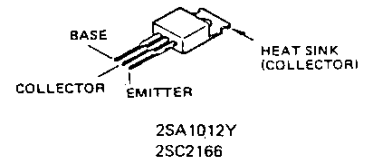
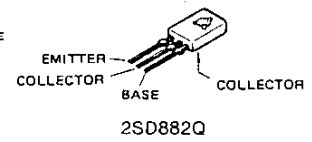
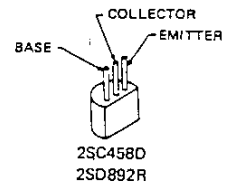
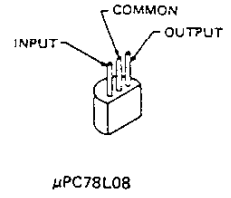
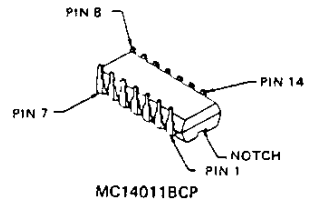
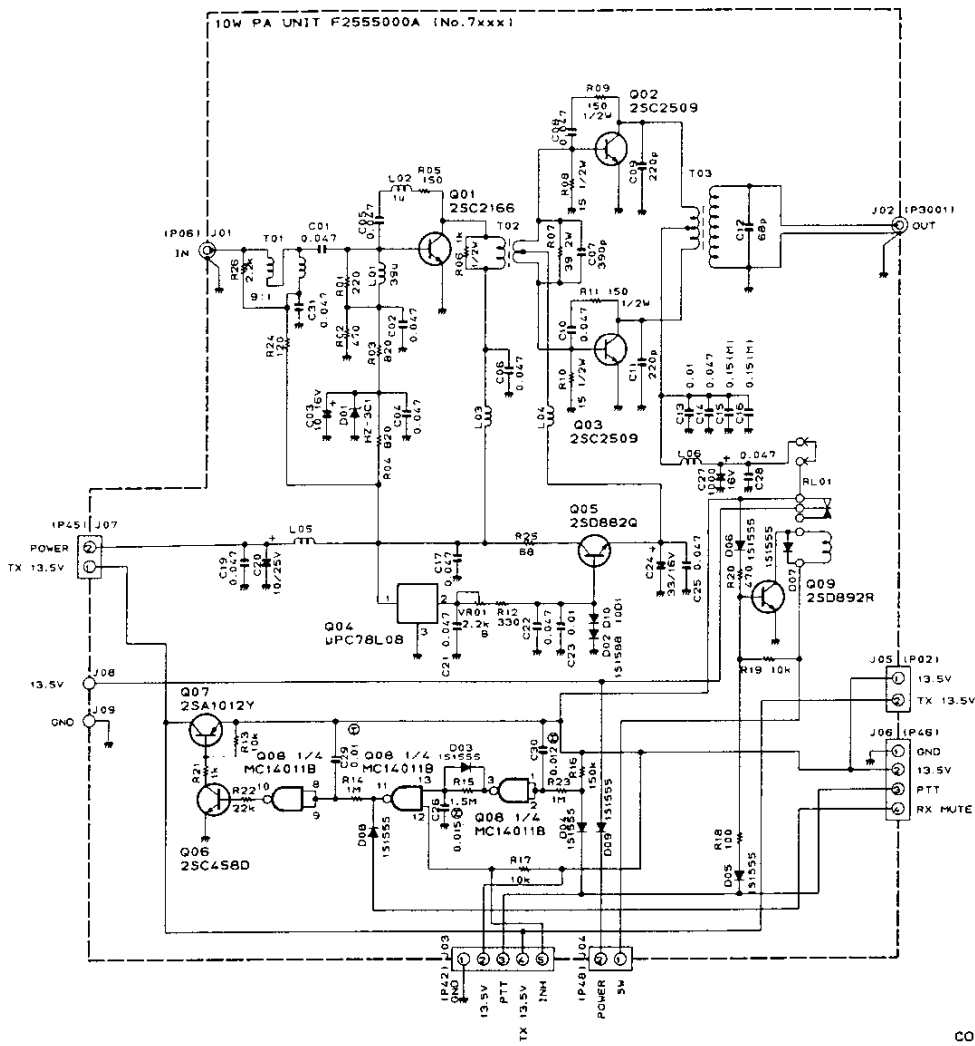
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Component Side



Solder Side





10W PA UNIT VOLTAGE CHART

(DC VOLTS)

	E		(S)		C		(D)		B		(G ₁)	REMARKS
	R	T	R	T	R	T	R	T	R	T		
Q7001	0	0	—	13.3	—	0.8						
Q7002	0	0	13.5	13.5	—	0.7						
Q7003	0	0	13.5	13.5	—	0.7						
Q7004	IN 0	IN 13.5	OUT 0	OUT 8.3								
Q7005	—	0.7	—	6.1	—	1.4						
Q7006	0	0	13.4	—	—	0.7						
Q7007	13.4	13.4	—	13.3	13.4	13.4						
Q7009	0	0	0.7	0.7	1.5	1.5						

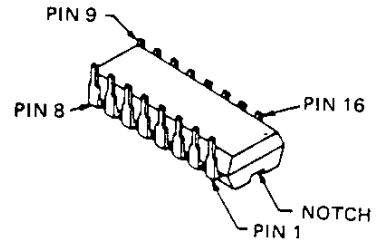
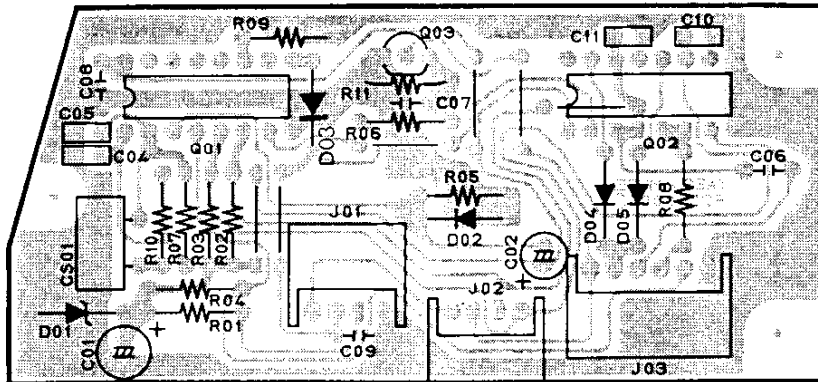
10W PA UNIT IC VOLTAGE CHART

(DC VOLTS)

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	REMARKS
Q7008	12.3	12.3	0	—	—	—	0	12.3	12.3	—	13.5	13.5	0	13.5	RX
Q7008	0.5	0.5	13.4	—	—	—	0	0.1	0.1	13.3	0.1	13.5	12.3	13.5	TX

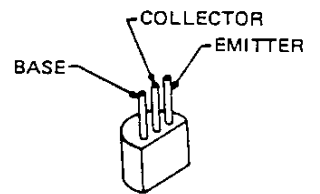
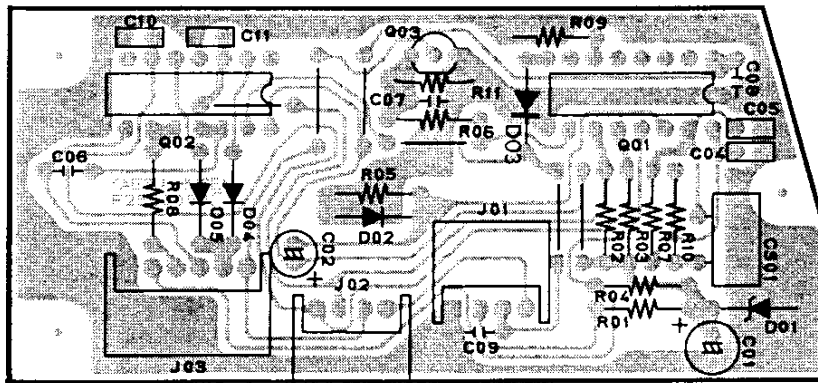
KEYER UNIT PARTS LAYOUT

Component Side



MC14049UBCP
TMS1751C

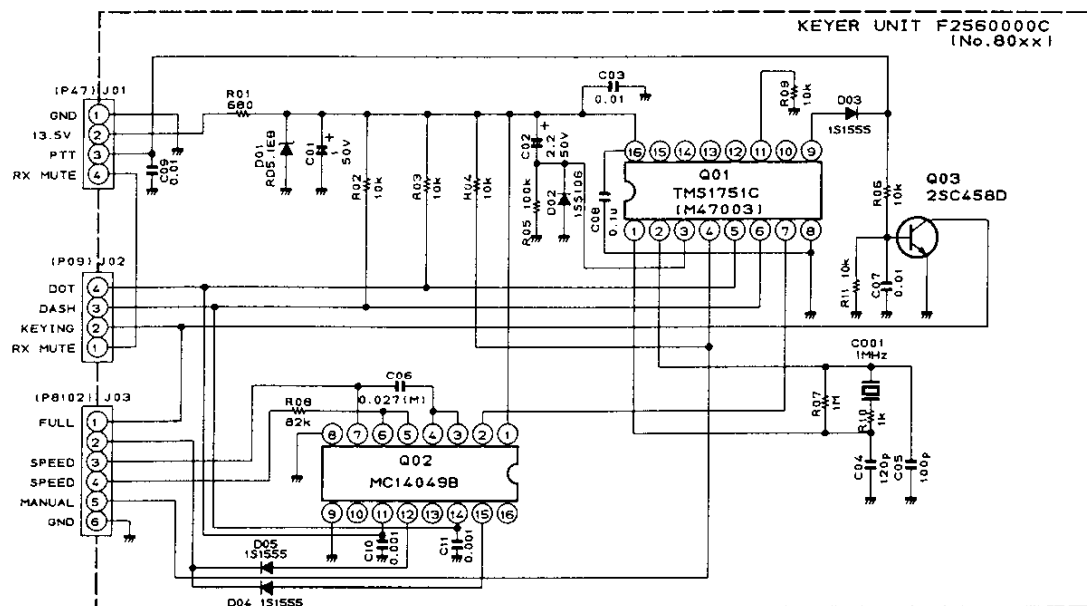
Solder Side



2SC458D
FOR SERVICE MANUALS
CONTACT:

MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554



KEYER UNIT VOLTAGE CHART

(DC VOLTS)

	E (S)		C (D)		B (G ₁)		REMARKS
	MARK	SPACE	MARK	SPACE	MARK	SPACE	
Q8003	0/0	0/0	0/0.1	6.5/12.8	0.7/0.7	0/0	SEMI/FULL

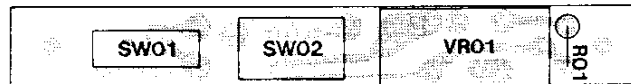
KEYER UNIT IC VOLTAGE CHART

(DC VOLTS)

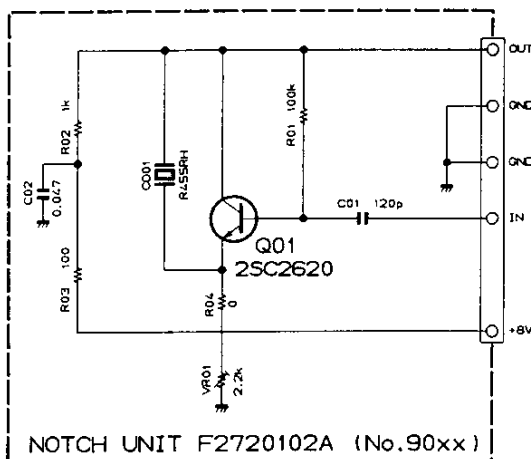
PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	REMARKS
Q8001	—	—	—	0	—	—	—	—	—	—	—	—	—	—	—	4.8	AUTO
Q8001	—	—	—	4.4	—	—	—	—	—	—	—	—	—	—	—	4.8	MANUAL
Q8001	—	—	—	—	—	—	—	—	0	—	0	—	—	—	—	4.8	SPACE
Q8001	—	—	—	—	—	—	—	—	4.8	—	4.7	—	—	—	—	4.8	MARK
Q8001	—	—	—	—	0	4.4	—	—	—	—	—	—	—	—	—	4.8	DOT
Q8001	—	—	—	—	4.4	0	—	—	—	—	—	—	—	—	—	4.8	DASH
Q8002	4.8	—	—	—	—	—	—	0	0	—	0/4.4	—	—	4.4/0	—	—	DOT / DASH

KEYER CONTROL UNIT

Component Side



Solder Side

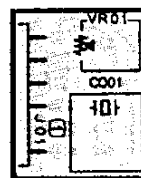


NOTCH UNIT F2720102A (No. 90xx)

RESISTOR VALUES ARE IN Ω, 1/10W ;
CAPACITOR VALUES ARE IN μF, 50V ;
UNLESS OTHERWISE NOTED.

NOTCH UNIT

Component Side

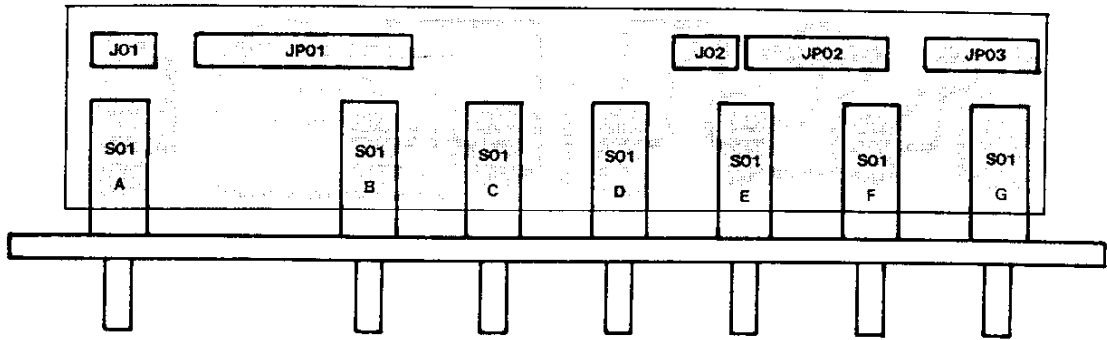


Solder Side

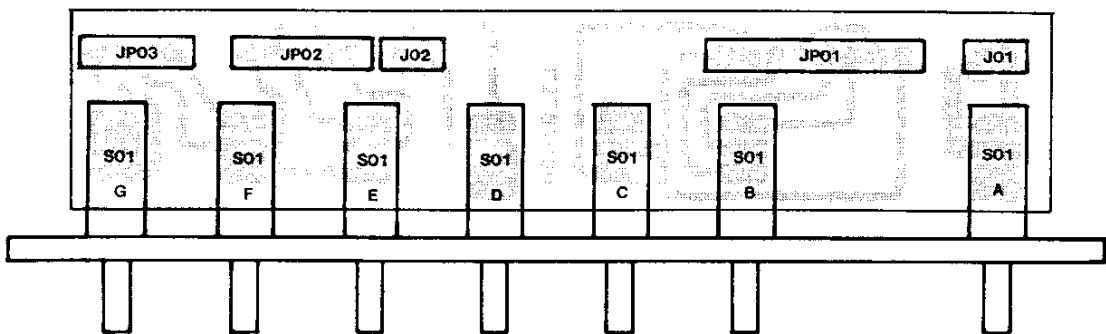


SWITCH UNIT A

Component Side

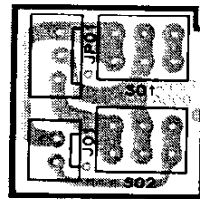


Solder Side

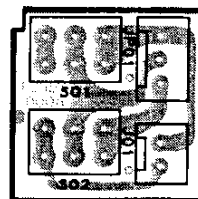


SWITCH UNIT B

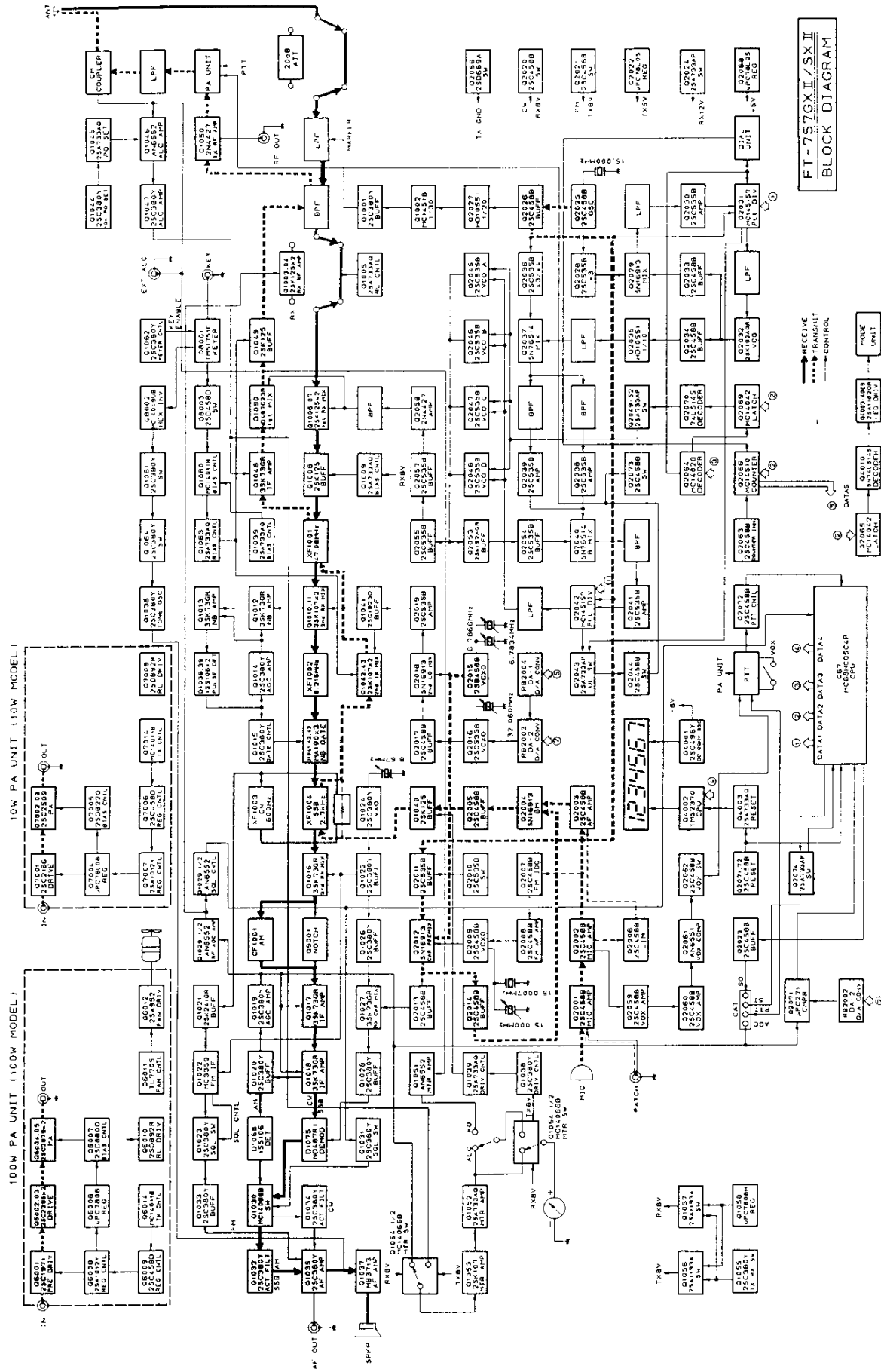
Component Side



Solder Side



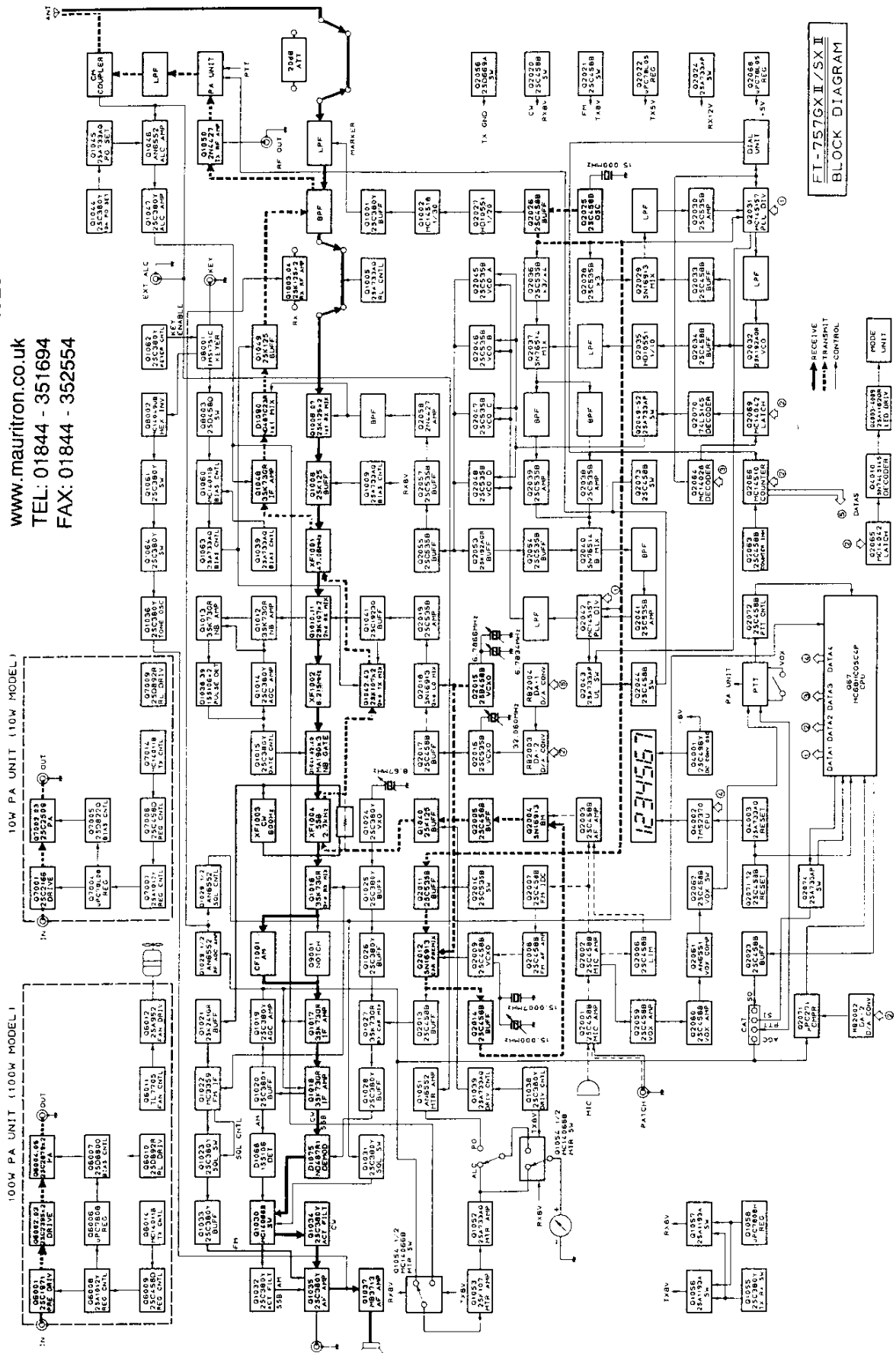
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FT-757GX II/SX II
BLOCK DIAGRAM

SIGNAL PATHS : SSB

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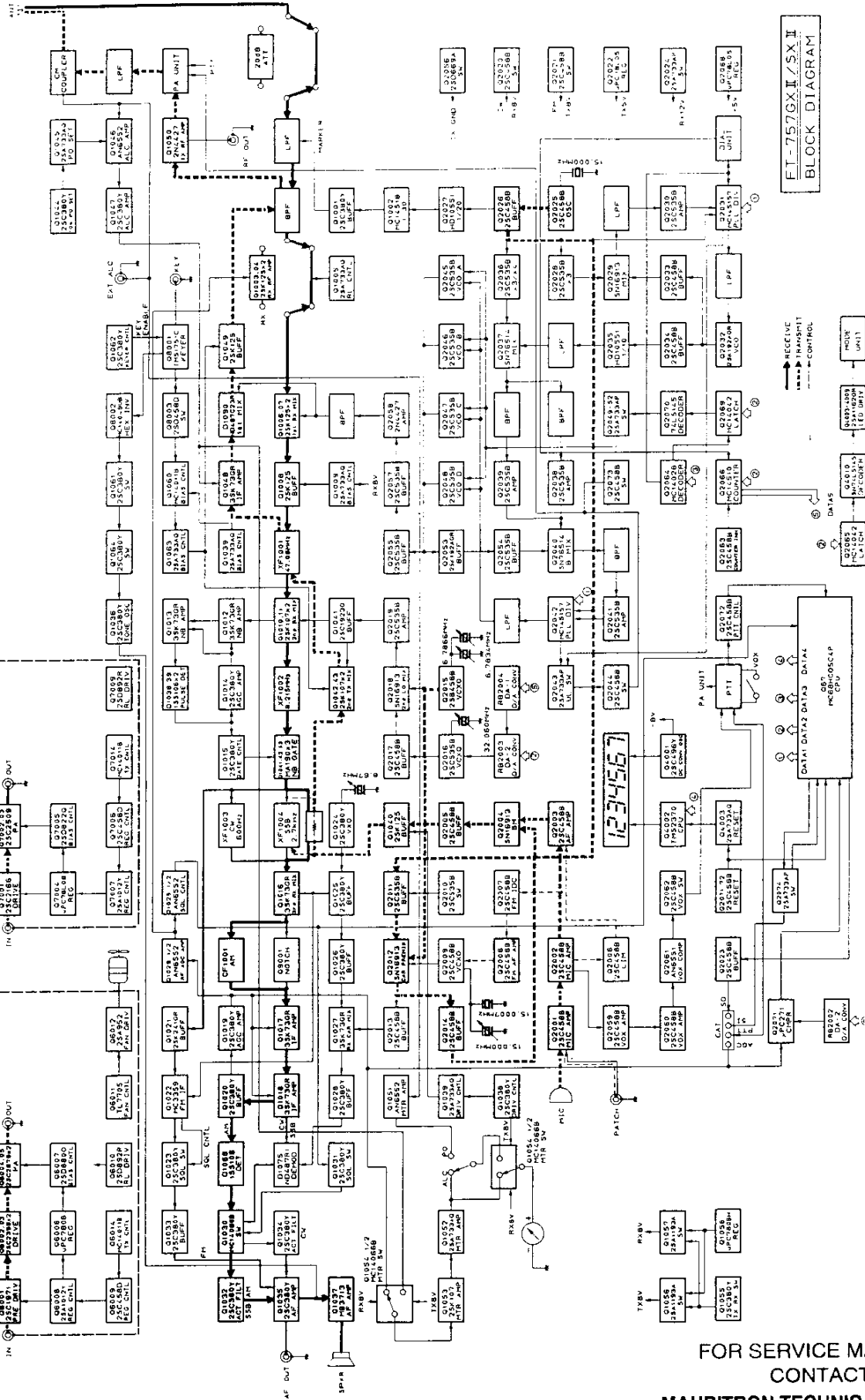


FT-757GX II/SX II
BLOCK DIAGRAM

SIGNAL PATHS : CW

100W PA UNIT (100W MODEL)

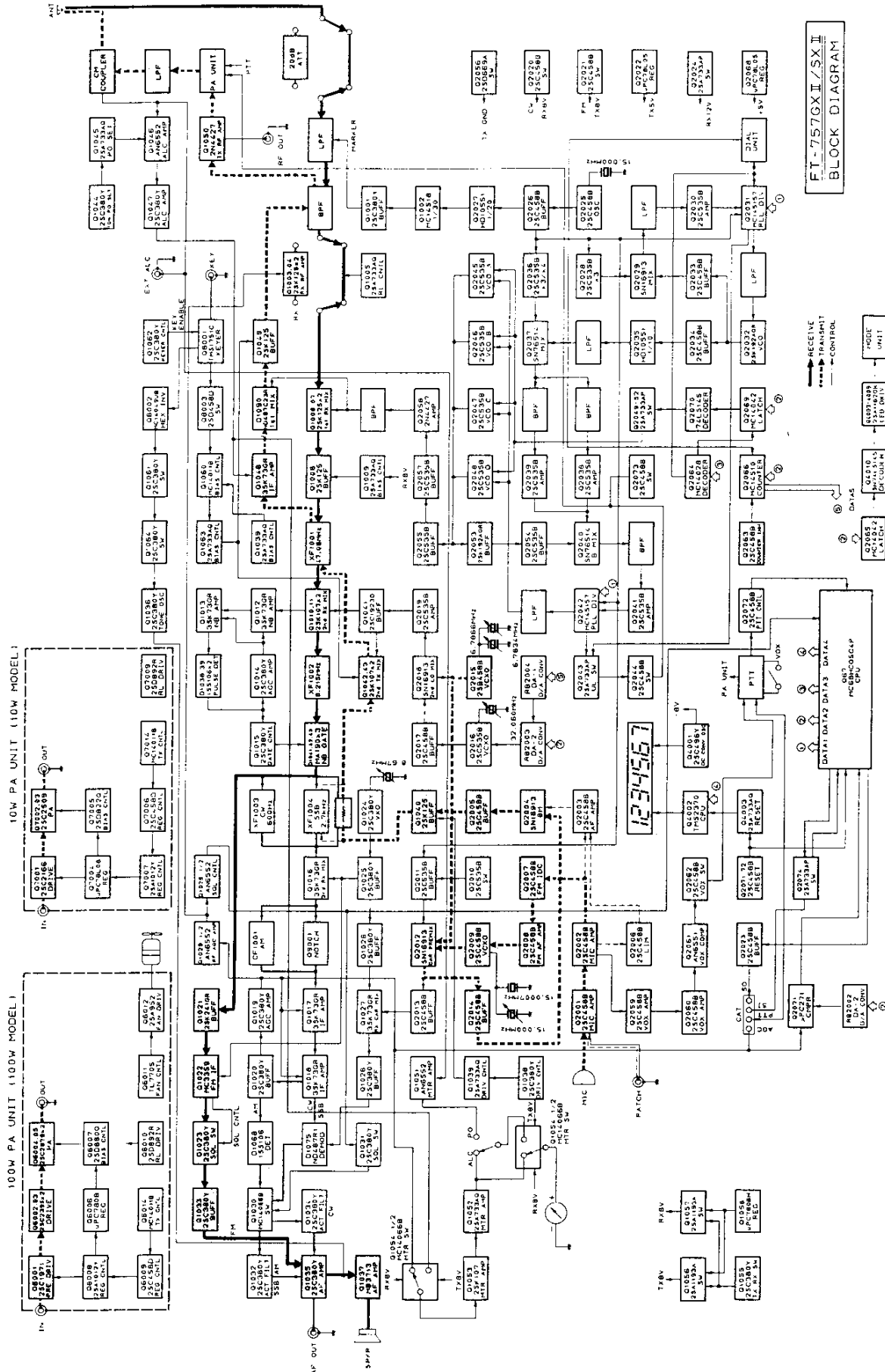
10W PA UNIT (110W MODEL)



FT-757GX II/SX II
BLOCK DIAGRAM

SIGNAL PATHS : AM

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FT-757GX II/SX II
BLOCK DIAGRAM

SIGNAL PATHS : FM

COMPONENT APPLICATIONS

MAIN CHASSIS

LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION
Q1	μPC7808H	Regulator IC	8V Reg for Local Unit

RF UNIT

LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION
Q1001	2SC380TMY	NPN Si TR	Marker Buffer Amp
Q1002	MC14518BCP	Dual BCD Counter	1/30 Divider (Marker)
Q1003	2SK125	JFET	RX RF Amplifier
Q1004	"	"	"
Q1005	2SA733AQ	PNP Si TR	Relay Driver
Q1006	2SK125	JFET	RX 1st Mixer
Q1007	"	"	"
Q1008	"	"	RX 1st IF Post-Amp
Q1009	2SA733AQ	PNP Si TR	RX Front End Mute (on TX)
Q1010	2SK107-3	JFET	RX 2nd Mixer
Q1011	"	"	"
Q1012	3SK73GR	MOSFET	RX Noise Amp
Q1013	"	"	"
Q1014	2SC380TMY	NPN Si TR	RX NB AGC Amp
Q1015	"	"	RX NB Gate Sw
Q1016	3SK73GR	MOSFET	RX 3rd Mixer
Q1017	"	"	RX 3rd IF Amp
Q1018	"	"	"
Q1019	2SC380TMY	NPN Si TR	RX AGC Amp
Q1020	"	"	RX AGC Buffer
Q1021	2SK241GR	JFET	RX 2nd IF Buffer
Q1022	MC3359P	FM RX IC	FM RX 3rd Mixer, Lim Amp, Discriminator, Noise Amp, Squelch Sw
Q1023	2SC380TMY	NPN Si TR	RX Squelch Sw
Q1024	"	"	RX IF Width LO
Q1025	"	"	RX Width Local Amp
Q1026	"	"	RX Local Buffer Amp
Q1027	3SK73GR	MOSFET	RX Carrier Mixer
Q1028	2SC380TMY	NPN Si TR	RX Carrier Buffer
Q1029	AN6552	Dual Op amp	RX RF AGC Amp
Q1030	MC14066B	Quad ANA SW IC	RX Detector Selector Switch
Q1031	2SC380TMY	NPN Si TR	RX Detector Squelch Switch
Q1032	"	"	RX AM, SSB Active LPF
Q1033	"	"	RX FM AF Buffer
Q1034	"	"	RX CW Active LPF
Q1035	"	"	RX AF Preamp
Q1036	"	"	TX Sidetone Osc
Q1037	MB3713	AF Amp IC	RX AF Power Amp
Q1038	2SC380TMY	NPN Si TR	TX SSB Drive Sw
Q1039	2SA733AQ	"	TX Drive Enable Sw (T/R)
Q1040	2SK125	JFET	TX 1st IF Buffer
Q1041	2SC19230	NPN Si TR	2nd LO Buffer (RX and TX)
Q1042	2SK107-3	JFET	TX 2nd Mixer
Q1043	"	"	"
Q1044	2SC380TMY	NPN Si TR	TX 10m PO Reduction Sw (for JAs)
Q1045	2SA733AQ	PNP Si TR	TX ALC Diff Amps
Q1046	AN6552	Dual Op amp	TX ALC Diff Amps

Q1047	2SC380TMY	NPN Si TR	TX ALC Buffer
Q1048	3SK73GR	MOSFET	TX 2nd IF Amp
Q1049	2SK125	JFET	TX RF Post-Amp
Q1050	2N4427	NPN Si TR	TX RF Preamp
Q1051	AN6552	Dual Op amp	PO Meter Amps
Q1052	2SA733AQ	PNP Si TR	RX/TX S/ALC Meter Amp
Q1053	2SK107-3	JFET	"
Q1054	MC14066B	Quad ANA SW IC	Meter Function Selector
Q1055	2SC380TMY	NPN Si TR	Inverter for TX8V Sw Q1056
Q1056	2SA1193K	PNP Si TR	T/R Sw for TX8V on RF Unit
Q1057	"	"	T/R Sw for RX8V on RF Unit
Q1058	μPC7808H	Regulator IC	8V Reg for RF Unit
Q1059	2SA733AQ	PNP Si TR	PTT Switch Buffer
Q1060	MC14011BCP	Quad NAND	T/R Switching Sync
Q1061	2SC380TMY	NPN Si TR	TX Sidetone Switch (w/Q1064)
Q1062	"	"	TX CW Key Enable Sw
Q1063	2SA733AQ	PNP Si TR	TX IF T/R Sw
Q1064	2SC380TMY	NPN Si TR	TX Sidetone Osc Sw
Q1065	2SC380TMY	NPN Si TR	CW-N Xtal Filter Sw (Rx)
Q1066	"	"	CW-N Xtal Filter Sw (Tx)
D1001	MA190	Si Diode	Marker Output Sw
D1002	"	"	Marker Divider Preset Switch
D1003	"	"	"
D1004	-	-	Not Used
D1005	"	"	"
D1006	"	"	TX Switch
D1007	1SS83	"	BPF Switch (0.15 - 2.5MHz)
D1008	"	"	"(")
D1009	"	"	"(2.5 - 4.0MHz)
D1010	"	"	"(")
D1011	"	"	"(4.0 - 7.5MHz)
D1012	"	"	"(")
D1013	"	"	"(7.5 - 14.5MHz)
D1014	"	"	"(")
D1015	"	"	"(14.5 - 21.5MHz)
D1016	"	"	"(")
D1017	"	"	"(21.5 - 30MHz)
D1018	"	"	"(")
D1019	"	"	"
D1020	"	"	"
D1021	MA190	Si Diode	BC BPF Enable Switch
D1022	"	"	1.9MHz BPF Enable Switch
D1023	-	-	Not Used
D1024	"	"	Diode OR (USB)
D1025	"	"	Diode OR (LSB)
D1026	"	"	Notch 8V Switch
D1027	MA190	Si Diode	24.5/28MHz BPF/LPF Diode OR (28MHz)
D1028	"	"	" (24.5MHz)
D1029	"	"	18/21MHz BPF/LPF Diode OR (21MHz)
D1030	"	"	" (18MHz)
D1031	"	"	10/14MHz BPF/LPF Diode OR (14MHz)
D1032	"	"	" (10MHz)
D1033	"	"	Back Pulse Canceller
D1034	"	"	RX 1st IF T/R Sw (to XF01)
D1035	"	"	TX 2nd IF T/R Sw (from XF01)
D1036	"	"	TX 2nd IF T/R Sw (to XF01)

D1037	"	"	RX 1st IF T/R Sw (from XF01)	D1086	RD9.1EB2	Zener Diode	
D1038	1SS106	Schottky Barrier Diode	NB Noise Detector	D1087	MA190	Si Diode	Fwd/Rev ALC Diode OR (Rev)
D1039	"	"	"	D1088	RD9.1EB2	Zener Diode	Fwd ALC Latchup Protector
D1040	MA190	Si Diode	Reverse Voltage Isolator	D1089	MA190	Si Diode	Fwd/Rev ALC Diode OR (Fwd)
D1041	"	"	NB Gate	D1090	ND487C2-3R	Ring Module	TX 3rd Mixer
D1042	"	"	"	D1091	MA190	Si Diode	Reverse Voltage Isolator (from Meter Amp Q1051a)
D1043	"	"	"	D1092	"	"	"(from " Q1060d)"
D1044	"	"	RX 2nd IF T/R Sw (to Xtal Filters)	D1093	"	"	"
D1045	"	"	TX 1st IF T/R Sw (from Xtal Filters)	D1094	"	"	PTT Line Switch
D1046	"	"	CW Xtal Filter Sw	D1095	"	"	CW Keying Line Sw Protect
D1047	"	"	"	D1096	DSP-201	Surge Absorber	
D1048	1SS97	Schottky Barrier Diode	SSB Xtal Filter Sw	D1-97	MA190	Si Diode	18MHz TX Disable
D1049	"	"	"	D1098	"	"	24.5MHz TX Disable
D1050	"	"	AM Attenuator Sw	D1099	MV12	Varistor Diode	ALC Preset Fwd Bias
D1051	"	"	"	D1100	MA190	Si Diode	SSB Xtal Filter Sw (CW-W)
D1052	MA190	Si Diode	TX 1st IF T/R Sw (to Xtal Filters)	D1101	"	"	" (SSB)
D1053	"	"	RX 2nd IF T/R Sw (from Xtal Filters)	D1102	"	"	AM Squelch Switch
D1054	"	"	RX 3rd IF AM Filter Switch	D1103	"	"	RF AGC Threshold Set
D1055	"	"	"	D1104	HZ4B3	Zener Diode	Non-FM Squelch Hang Timer
D1056	"	"	RX 3rd IF Notch Unit Sw	D1105	MA190	Si Diode	NB AGC Limiter
D1057	"	"	"	D1106	IIZ3C1	Zener Diode	"
D1058	1SS97	"	AM ATT Sw	D1107	MA190	Si Diode	"
D1059	1SS53	"	PTT Line Sw	D1108	"	"	TX RF OUT Switch
D1060	"	"	Key Line Sw	D1109	"	"	Demodulator FM Disable Switch (from TX 8V)
D1061	MA190	"	RX 3rd IF AM Filter	D1110	1SS53	"	INH TX Disable
D1062	"	"	Selector (AM)	D1111	HZ7B1L	"	-8V Regulate
D1063	"	"	" (FM)	D1112	1SS83	"	TX RF Sw
D1064	"	"	CW-N Xtal Filter Sw	D1113	1SS53	"	RX RF Sw
D1065	1SS106	Schottky Barrier Diode	FM Demodulator Activator Switch	D1114	-	-	Not Used
D1066	"	"	RX AGC Detector	D1115	1SS83	Si Diode	RX RF Sw
D1067	"	"	"	D1116	"	"	TX RF Sw
D1068	"	"	Forward Bias for AM Detector	XF1001	XF-47M-203-01	Crystal Filter	RX 1st IF Filter
D1069	"	"	RX AM Detector	XF1002	8.2M20	"	" 2nd IF "
D1070	1SV50	Varactor Diode	RX FM Noise Detector	XF1003	XF8.2M-601-01	"	" " " (CW-N)
D1071	MA190	Si Diode	IF Width Frequency Control	XF1004	XF8.2M-272-01	"	" " " (SSB, CW-W)
D1072	"	"	BFO Premixer Enable Sw (SSB)	CF1001	LF-H6S	Ceramic Filter	RX 3rd IF Filter (AM)
D1073	"	"	CW BFO and AF Filter Sw (CW-W)	CF1002	CFG455E1	"	(FM)
D1074	"	"	" (CW-N)	X1001	HC-18/U 8670kHz	Crystal	IF Width Oscillator
D1075	ND487R1-3R	Ring Module	BFO Premixer Enable Sw (CW)	LOCAL UNIT			
D1076	MA190	Si Diode	RX SSB, CW Demodulator	LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION
D1077	"	"	Reverse Voltage Protector (SCAN Line)	Q2001	2SC458B	NPN Si TR	TX MIC Amp
D1078	"	"	RX SSB/AM AF Filter Sw (SSB)	Q2002	"	"	"
D1079	"	"	" (AM)	Q2003	"	"	TX AF Amp (SSB/AM)
D1080	"	"	RX SSB/AM AF Filter Switch	Q2004	SN16193P	Mixer IC	TX SSB Balanced Modulator (also AM Mod)
D1081	"	"	RX FM AF Buffer Sw	Q2005	2SC458B	NPN Si TR	TX 1st IF Buffer Amp
D1082	1SS53	Si Diode	RX CW AF Filter Sw	Q2006	"	"	TX SSB PROC AF Limiter Amp
D1083	MV12	Varistor	Key Line Sw	Q2007	"	"	TX FM IDC
D1084	RD9.1EB2	Zener Diode	Temperature Comp for ALC	Q2008	"	"	TX FM AF Amp
D1085	MA190	Si Diode	Rev ALC Latchup Protector				
D1086			Reverse EXT ALC Protector				

Q2009	"	"	15MHz VCXO (TX FM/CW)	Q2056	2SD699A	NPN Si TR	TX GND Control
Q2010	2SC535B	"	FM/CW TX Carrier	Q2057	2SC535B	NPN Si TR	1st RX/3rd TX LO Preamp
Q2011	"	"	Disable Sw RX and SSB/AM TX, 15MHz Car LO Buffer	Q2058	2N4427	"	1st Local Amp
Q2012	SN16913P	Mixer IC	Carrier Premixer	Q2059	2SC458B	"	VOX Amplifier
Q2013	2SC458B	NPN Si TR	RX Carrier LO Buffer	Q2060	"	"	"
Q2014	"	"	TX Carrier LO Buffer	Q2061	AN6551	Op amp IC	VOX Comparator
Q2015	"	"	6.78MHz SSB Car and SHIFT VCXO	Q2062	2SC458B	NPN Si TR	VOX Switch
Q2016	2SC945AP	"	32.06MHz 2nd LO and WIDTH VCXO	Q2063	"	"	Counter Startup Delay Switch
Q2017	2SC458B	"	32.06MHz Buffer Amp	Q2064	MC14028BCP	BCD-Dec Decoder IC	µP PLL Div Freq Data Decoder
Q2018	SN16913	Mixer IC	2nd Local Premixer	Q2065	MC14042BCP	4 Latch	MODE Data Decoder
Q2019	2SC535B	NPN Si TR	2nd Local Buffer Amp	Q2066	14510BCP	BCD U/D Counter IC	Tuning, Pulse Counter
Q2020	2SC458B	"	Disable Sw (CW) RX and SSB/AM TX Carrier	Q2067	SC82072P	8-bit µP LSI	Freq Control CPU
Q2021	"	"	" (FM)	Q2068	µPC78L05	Regulator IC	5V Reg for Local and Dial Unit Logic
Q2022	µPC78L05	Regulator IC	Reg for RX IF Shift Preset on TX	Q2069	MC14042BCP	Quad Latch IC	µP Band Data Decoder Latch
Q2023	2SC458B	NPN Si TR	CAT SO Buffer	Q2070	SN74LS145N	BCD-Dec Decoder IC	Band Data BCD-Dec Decoder
Q2024	2SA733AP	PNP Si TR	IF Shift Disable on TX	Q2071	µPC271	Dual Compalater	AGC Voltage A/D Converter
Q2025	2SC458B	NPN Si TR	15MHz PLL Ref, RX and SSB/AM TX Car Oscillator	Q2072	2SC458	NPN Si TR	Delay PTT Control
Q2026	"	"	15MHz Buffer Amp	Q2073	"	"	TX Inhibit Switch (for MAN and EXT)
Q2027	HD10551P	Divider IC	1/20 Ref Divider for Marker	D2001	1N270	Ge Diode	TX, SSB PROC Limiter
Q2028	2SC535B	NPN Si TR	45MHz Triple for PLL1 LO	D2002	"	"	"
Q2029	SN16193P	Mixer IC	PLL1 Mixer	D2003	MA190	Si Diode	TX FM IDC Switch
Q2030	2SC535B	NPN Si TR	PLL1 IF Amp	D2004	"	"	"
Q2031	MC145157	CMOSIC	PLL1 Prog Div and Phase Detector	D2005	"	"	TX AF Amp Disable Switch (CW)
Q2032	2SK192AGR	JFET	34-39MHz VCO (PLL1)	D2006	"	"	TX AF Amp Disable Switch (FM)
Q2033	2SC458B	NPN Si TR	PLL1 VCO Feedback Buffer	D2007	MV103	Varistor Diode	Temp Compensator for FM Modulator
Q2034	"	"	PLL1 VCO Output Buffer	D2008	MA190	Si Diode	TX CW Car Osc Crystal Switch
Q2035	HD10551P	Divider IC	1/10 PLL1 Output Divider	D2009	"	"	TX FM Car Osc Crystal Switch
Q2036	2SC535B	NPN Si TR	PLL Ref Tripler/ Quadrupler	D2010	FC53M-5	Varactor Diode	FM Modulator
Q2037	SN76514N	Mixer IC	PLL2 Local Premixer	D2011	MA190	Si Diode	TX FM Car Osc Bias Sw
Q2038	2SC535B	NPN Si TR	PLL241MHz Local Amp	D2012	"	"	TX FM/CW Car Osc Disable Sw (RX)
Q2039	"	"	PLL256MHz Local Amp	D2013	"	"	RX, SSB/AM TX 15MHz Car LO Disable (FM/CW TX)
Q2040	SN76514N	Mixer IC	PLL2 Mixer	D2014	"	"	Enable Sw (")
Q2041	2SC535B	NPN Si TR	PLL2 IF Amp	D2015	"	"	Rev Voltage Isolator (SSB/CW RX)
Q2042	MC145157	CMOSIC	PLL2 Prog Div and Phase Detector	D2016	RD7.5EB3	Zener Diode	7.5V Reg for Car Sw Q2011
Q2043	2SA733AP	PNP Si TR	PLL Unlock Switch	D2017	MA190	Si Diode	USB Car LO Xtal Sw for USB, CW, AM, FM
Q2044	2SC458B	NPN Si TR	TX Inhibit Switch (for Unlock)	D2018	"	"	LSB Car LO Xtal Sw
Q2045	2SC535B	"	PLL2 1st RX, 3rd TX Local VCO (0.15 - 7.5MHz)	D2019	FC52M-5	Varactor Diode	6.78MHz VCXO IF SHIFT Control
Q2046	"	"	"(7.5 - 14.5MHz)	D2020	1SV50	"	32.06MHz 2nd LO IF WIDTH Control
Q2047	"	"	"(14.5 - 21.5MHz)	D2021	MA190	Si Diode	Rev Voltage Isolator (CW TX Sw)
Q2048	"	"	"(21.5 - 30.0MHz)	D2022	"	"	"(FM TX Sw)
Q2049	2SA733AP	PNP Si TR	PLL2 LO and VCO Bandswitch (0.15 - 7.5MHz)	D2023	"	"	"(SHIFT TX Preset)
Q2050	"	"	"(7.5 - 14.5MHz)	D2024	1SS101	Schottky Barrier Diode	"(")
Q2051	"	"	"(14.5 - 21.5MHz)	Q2054	2SC535B	NPN Si TR	Reg for SHIFT Reference
Q2052	"	"	"(21.5 - 30MHz)	Q2055	"	"	"
Q2053	2SK192AGR	JFET	PLL2 VCO Feedback Buffer Amp				
Q2054	2SC535B	NPN Si TR	"	D2025	RD9.1EB3	Zener Diode	Reg for SHIFT Reference
Q2055	"	"	PLL2 VCO Output Buffer Amp				

D2026	MA190	Si Diode	Rev Voltage Isolator	D2073	"	"	" D "
			(SHIFT TX Preset)	D2074	"	"	" D "
D2027	"	"	"(AM Car Preset)	D2075	"	"	VOX Rectifier
D2028	"	"	Carrier Premix Vcc OR	D2076	"	"	"
			(on LSB)	D2077	1N270	Ge Diode	ANTI TRIP Rectifier
D2029	"	"	"(on USB)	D2078	"	"	"
D2030	"	"	"(on CW)	D2079	MA190	Si Diode	Sidetone Enable, A-TRIP
D2031	"	"	Bal Mod Car Bias OR	D2080	"	"	Disable Switch Delay (Q2061) Rev Voltage Isolator
			(on CW)	D2081	RD6.2EB3	Zener Diode	VOX Clamp
D2032	"	"	"(on FM)	D2082	MA190	Si Diode	Sidetone Delay Enable Switch
D2033	"	"	USB Car VCXO Sw OR	D2083	"	"	FAST Enable Protector (for Q2064)
			(on USB)	D2084	1SS97	Schottky Barrier Diode	Backup Battery Protector
D2034	"	"	"(on CW)	D2085	"	"	5V Vcc Rev Voltage Protector
D2035	"	"	"(on AM)	D2086	MA190	Si Diode	5V Vcc Isolator
D2036	"	"	"(on FM)	D2087	"	"	Scan Pulse Diode OR
D2037	"	"	CPU Clock Reset Sw	D2088	"	"	PTT Jack Rev Voltage Protection for Q2064
D2038	"	"	Rev Voltage Protector	D2089	"	"	Dial Clock Enable
D2039	"	"	CAT PTT Isolater	D2090	"	"	Scan Pulse Diode OR
D2040	1SS106	Schottky Barrier Diode	INH Reverse Voltage Isolator	D2091	RD9.1EB3	Zener Diode	Counter Startup Threshold Set
D2041	10D10	Si Diode	Back Pulse Canceller	D2092	MA190	Si Diode	Sift Disable (Q2024) Switch Bias
D2042	RD5.1EB2	Zener Diode	Vcc Reg for Marker Divider	D2092	"	"	Shift Disable (Q2024) Switch Bias
D2043	FC53M5	Varacter Diode	34-39MHz VCO (PLL1)	D2093	"	"	5V Vcc Rev Voltage Protect
D2044	RD5.1EB2	Zener Diode	Vcc Reg for PLL1 Output Divider	D2094	"	"	PLL1 Unlock Diode OR
D2045	MA190	Si Diode	PLL Ref Triple In Sw	D2095	"	"	PLL2 Unlock Diode OR
D2046	"	"	PLL Ref Quadruple Input Switch	D2096	RD8.2EB3	Zener Diode	CPU Startup Reset Threshold Set
D2047	"	"	45MHz PLL Ref Triple Output Switch	D2097	MA190	Si Diode	INH Sw Forward Bias
D2048	"	"	60MHz PLL Ref Quadruple Out Sw	D2098	"	"	"
D2049	"	"	41MHz PLL2 LO BPF Input Switch	D2099	"	"	FM Shift Diode OR
D2050	"	"	56MHz PLL2 LO BPF Input Switch	D2100	"	"	AM "
D2051	"	"	41MHz PLL2 LO BPF Output Switch	D2101	MA190-TR	Si Diode	78L05 Voltage UP
D2052	"	"	56MHz PLL2 LO BPF Output Switch	D2102	MA190	"	CW8V OR (CW-W)
D2053	SVC211SP	Varactor Diode	PLL 2 VCO A Control (0.15 - 7.5MHz)	D2103	"	"	" (CW-N)
D2054	"	"	" B Control (7.5 - 14.5MHz)	X2001	15.0007MHz	HC-18/U Crystal	CW BFO Carrier Oscillator
D2055	"	"	" C Control (14.5 - 21.5MHz)	X2002	15.000MHz	"	FM Carrier Oscillator
D2056	"	"	" D Control (21.5 - 30.0MHz)	X2003	6.7834MHz	"	USB Carrier Oscillator
D2057	MA190	Si Diode	" A Out Sw	X2004	6.7866MHz	"	LSB Carrier Oscillator
D2058	"	"	" B "	X2005	32.060MHz	HC-43/U	2nd LO and WIDTH VCXO
D2059	"	"	" C "	X2006	15.000MHz	"	PLL Ref and AM Car Oscillator
D2060	"	"	" D "				
D2061	"	"	PLL2 41MHz BPF OR (with VCO A on)				
D2062	"	"	"(" B on)				
D2063	"	"	PLL2 56MHz BPF OR (with VCO C on)				
D2064	"	"	"(" D on)				
D2065	"	"	Dec Band Data-to-VCO A Decoder OR				
D2066	"	"	"				
D2067	"	"	"				
D2068	"	"	Dec Band Data-to-VCO A Decoder OR				
D2069	"	"	" B "				
D2070	"	"	" B "				
D2071	"	"	" C "				
D2072	"	"	" C "				
				LPF UNIT			
				LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION
				D3001	1S1555	Si Diode	Back Pulse Canceller
				D3002	"	"	"
				D3003	"	"	"
				D3004	"	"	"
				D3005	"	"	"
				D3006	"	"	"

D3007	1SS106	Schottky Barrier Diode	Rev ALC/SWR Detector
D3008	"	"	Fwd ALC/SWR Detector
D3009	"	"	Rev ALC/SWR Detector
D3010	"	"	Fwd ALC/SWR Detector
D3011	"	"	RF Pickup Rectifier
D3012	1S1555	Si Diode	RF Pickup Detector Bias
D3013	"	"	Back Pulse Cancellor

DISPLAY UNIT

LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION
Q4001	2SC496Y	NPN Si TR	DC-DC Converter Oscillator
Q4002	TMS2370	4-bit CPU	Display Control CPU
Q4003	2SA1162GR	PNP Si Chip TR	CPU Reset Switch
Q4004	"	"	MODE LED DRIVE
Q4005	"	"	"
Q4006	"	"	"
Q4007	"	"	"
Q4008	"	"	"
Q4009	"	"	"
Q4010	SN74LS145N	BCD to Decimal Decoder	MODE Data Decoder
Q4011	2SC2712GR	NPN Si Chip TR	CEN LED DRIVE
D4001	1S1555	Si Diode	Display "CH" Diode OR (b-seg)
D4002	"	"	" (g-seg)
D4003	1SS55	"	-30V Rectifier
D4004	HZ5C1	Zener Diode	-25V Bias
D4005	RD30EB2	"	-30V Regulator
D4006	1S1555	Si Diode	-8V Rectifier
D4007	HZ4B3	Zener Diode	-4V Regulator
D4008	1S1555	Si Diode	CLAR, M → VFO, VFO → M, PB2 Sw
D4009	1SS181	Si Chip Diode	VFO ↔ M Sw
D4010	1SS555	"	CLAR Switch
D4011	"	"	D LOCK Switch
D4012	1SS181	"	VFO A/B, M → VFO Switch
D4013	"	"	VFO → M Switch
D4014	"	"	SPLIT, MR, VFO → M Clamp
D4015	-	-	Not Used
D4016	"	"	MODE, INH Switch
D4017	"	"	VFO ↔ M, MODE INH, IRQ, Clamp
D4018	"	"	UP, DOWN, CLAR D LOCK, VFO A/B, M → VFO Clamp
D4019	"	"	UP, DWN Switch
D4020	"	"	SPLIT, MR Sw
D4021	GL9PR4	LED	ON AIR Indicator
D4022	GL9PG4	"	GEN Indicator
D4023	1S1554	Si Diode	Reverse Voltage Isolator
D4024	-	-	Not Used
D4025	-	-	Not Used

DIAL UNIT

LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION
Q5001	MC14011BCP	Quad NAND IC	Beeper Multivibrator
Q5002	MC14584BCP	Hex Schmitt Trig IC	Pulse Shapers
Q5003	MC14071BCP	Quad OR IC	Up/Down Logic
Q5004	MC14071BCP	Dual 4 AND IC	"
Q5005	MC14013BCP	Dual "D" F-F	Up/Down Logic, Buzzer Switch
D5001	1S1555	Si Diode	Tune Disable by Buzzer Diode OR
D5002	"	"	Tune Disable by D LOCK Diode OR
D5003	"	"	Buzzer Timer

100W PA UNIT

LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION
Q6001	2SC1971	NPN Si TR	Tx Predriver
Q6002	2SC2395	"	Tx Driver
Q6003	"	"	"
Q6004	2SC2879	"	TX Final Amplifier
Q6005	"	"	"
Q6006	μPC7808H	Regulator IC	Final Bias Reg
Q6007	2SD880-O	NPN Si TR	"
Q6008	2SA1012Y	PNP Si TR	TX13.5V Sw
Q6009	2SC458D	NPN Si TR	TX 13.5V Sw Driver
Q6010	2SD892R	"	Power ON Relay Driver
Q6011	TL7705	OP Amp IC	Fan Switching Comparator
Q6012	2SA952L	PNP Si TR	Fan Driver
Q6013	MC14011BCP	Quad NAND IC	TX/RX Sw and Delay (for TX 13.5V)
D6001	HZ3C1	Zener Diode	Predriver Bias Regulator
D6002	10D10	Si Diode	Temp Compensator (for Driver Bias)
D6003	"	"	"
D6004	"	"	Temp Compensator (for Final Amp Bias)
D6005	"	"	"
D6006	1S1555	"	PTT T/R Delay Trigger
D6007	"	"	PTT Delay Gate OR
D6008	"	"	Reverse Voltage Isolator
D6009	"	"	PTT 13.5V Diode OR
D6010	"	"	PWR Relay Back Pulse Cancellor
D6011	"	"	RX Mute Diode OR
D6012	"	"	PWR ON Rev Voltage Isolator

10W PA

LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION
Q7001	2SC2166	NPN Si TR	TX Driver
Q7002	2SC2509	"	TX Final Amplifier
Q7003	"	"	"

CO4001	CSB500E	Ceramic Resonator	500kHz Display CPU Clock Oscillator
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Q7004	µPC78L08	Regulator IC	Final Bias Regulator
Q7005	2SD882Q	NPN Si TR	"
Q7006	2SC458D	"	TX13.5V Sw Driver
Q7007	2SA1012Y	PNP Si TR	TX13.5V Switch
Q7008	MC14011BCP	Quad NAND IC	TX/RX SW and Delay (for TX 13.5V)
Q7009	2SD892R	NPN Si TR	Relay Driver
D7001	HZ3C1	Zener Diode	Driver Bias Regulator
D7002	MV11	Varistor Diode	Temp Compensator (for Final Bias)
D7003	1S1555	Si Diode	PTT T/R Delay Trigger
D7004	"	"	PTT Delay Gate OR
D7005	"	"	PTT 13.5V Diode OR
D7006	"	"	Reverse Voltage Isolator
D7007	"	"	PWR Relay Back Pulse Cancellor
D7008	"	"	RX Mute Diode OR
D7009	"	"	PWR ON Rev Voltage Isolator

KEYER UNIT

Q8001	TMS1751C	4-bit CPU	Keyer Microprocessor
Q8002	MC14049UBCP	HEX Inverter	Monostable Multi-vibrator
Q8003	2SC458D	NPN Si TR	Keying Line Driver
D8001	RD5.1EB	Zener Diode	Vcc Regulator
D8002	1SS106	Schottky Barrier Diode	Clamp
CO8001	CSA1.00MK	Ceramic Resonator	1MHz Clock Oscillator

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FT-757GX II / SX II PARTS LIST

MAIN CHASSIS						GROUND TERMINAL
Symbol No.	Part No.	Name & Description			Q9000078	BP-19
		IC				
Q1	G1090294	μPC7808H				KNOBS
					R3116400A	FT-50V MAIN TUNING
					R6100760A	FT-18D DRIVE, RF, SHIFT, NB
		RESISTORS				
R1, 2	J01245101	Carbon Film 1/4W TJ 100Ω			R3100770B	FT-13WK MIC, AF, NOTCH, SQL
					R3100780A	FT-9 FWD SET
		POTENTIOMETER			R3100790A	Push Button A VFO+M, M VFO
VR1	J62800082	K16BA001R 5KB/10KA RF/AF			R3100800A	" " B VFO A/B, SPLIT, MR/VFO, VFO MR
VR2	J62800093	K12B6103G 10KB×2 SHIFT/NOTCH			R3100810C	" " C MOX
VR4	J62800083	K16BA001R 10KB×2 DRIVE/MIC			R3100820C	" " D VOX
VR3	J63800003	K16C2001A 50KB/10KB×2 SQL/NB			R3100830C	" " E FAST, SCAN MODE
					R3100850B	" " G METER, RF AMP, ATT, PROC, NB/T, AGC-F
		CAPACITORS			R3100870A	" " J D LOCK
C1	K13179008	Ceramic Disc 50WV 0.01μF (DD106F103Z50)			R3100880A	" " K CLAR
C2	K19179001	" " 25WV 0.1μF (RSB305YF104Z6L5)			R3100890	Slide Knob A BREAK-IN, KEYS
C3	K19149025	Semiconductor Ceramic 25WV 0.1μF (UAT10X104K-L45AE)			R3100900	" " B SPEED
					R3119810A	Knob BAND/CH, MODE
					R3113370A	" H/G
					R3056502	Push Knob A LINEAR, MAKER
					R3111170	Knob POWER
		METER				
M1	M0290054	Y-40-WN				
		SPEAKER				
SP1	M4090061	SS-70T				
			Q1002	G1090108		ICS
			Q1022	G1090389		MC3359
		INDUCTORS	Q1029, 1046, 1051	G1090246		AN6552 (LA6458D)
	L9190010	Ri 9.3×4.8-5	G1030, 1054	G1090257		MC14066B
	L9190053	D12A16-8-8	Q1037	G1090494		MB3713
			Q1058	G1090294		μPC7808H
			Q1060	G1090068		MC14011B
		LAMPS				
PL1, 2	Q1000047	BQ044-32514M				FETS
	S2000006	Color Cap	Q1003, 1004, 1006-1008, 1040, 1049	G3801250		2SK125
			Q1010, 1011, 1042, 1043, 1053	G3801040J		2SK104J
		RECEPTACLES				
J1	P0090158	FM-214-8SS MIC	Q1012, 1013, 1016-1018, 1027, 1048	G4800730G		3SK73GR
J2	P1090134	S-G7627 PHONES				
J3	P1090352	FM-MDR-MI ANT	Q1021	G3802410G		2SK241GR
J4	P0090026	QS-1B4M POWER				
J5/P12 (with wire)	T9204697	5240-021 SPEAKER				TRANSISTORS
			Q1005, 1009, 1045, 1052, 1059, 1063	G3107334Q		2SA733AQ(T)
			Q1039	G3107331Q		2SA733AQ
	Q9000249	Z99-W-09 (M8307009)	Q1056, 1057	G3111930K		2SA1193K
			Q1001, 1014, 1015, 1019, 1020, 1023, 1024, 1026, 1028, 1031, 1036, 1038, 1044, 1047, 1055, 1061, 1062, 1064-1066	G3303800Y		2SC380TMY
		MOTOR				
MOTOR 1	M2190004	MDN-7R1				
	R3500250	Radial FAN				
			Q1035, 1041	G3318150Y		2SC1815Y

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Q1050	G3090010	2N4427			RESISTORS
Q1032, 1034	G3090068	2SC458LG-C	R1254	J01275279	Carbon Film 1/2W TJ 2.7Ω
Q1033	G3304580B	2SC458B (2SC1815Y)	R1234	J02245479	" " " " 1/4W SJ 4.7Ω
			R2229	J02245220	" " " " 22Ω
			R1022, 1290	J02245470	" " " " 47Ω
			R1291-1295	J24205470	Chip Resistor 1/10W 47Ω
			R1028, 1167, 1226, 1227, 1228, 1235	J02245680	Carbon Film 1/4W SJ 68Ω
		DIODES			
D1001, 1005-1020, 1112, 1115, 1116	G2090340	Si 1SS83	R1181	J24205101	Chip Resistor 1/10W 100Ω
D1002, 1003, 1021, 1022, 1024-1037, 1040-1047, 1052-1057, 1061-1064, 1069, 1071, 1072-1074, 1076-1081, 1085, 1087, 1089, 1091-1095, 1097, 1100-1103, 1105, 1109	G2090237	" MA190	R1011-1016, 1035, 1038, 1043, 1046, 1050, 1062, 1072, 1075, 1078, 1082, 1085, 1093, 1099, 1103, 1127, 1134, 1150, 1153, 1159, 1164, 1185, 1189, 1198, 1199, 1204, 1220, 1221, 1225, 1230, 1236	J02245101	Carbon Film 1/4W SJ 100Ω
D1059, 1060, 1082, 1110, 1113	G2090027	" 1SS53	R1061	J01245101	" " " " TJ 100Ω
D1048-1051, 1058	G2090118	Schottky Barrier 1SS97	R1298	J01215101	" " " " 1/8W " 100Ω
D1038, 1039, 1065-1068	G2090244	" " 1SS106	R1063, 1065, 1083, 1088, 1269	J02245151	" " " " 1/4W SJ 150Ω
D1070	G2090023	Varactor 1SV50	R1133, 1222, 1237	J02245221	" " " " 220Ω
D1084, 1086, 1088	G2090155	Zener RD9.1EB2	R1297	J24205221	Chip Resistor 1/10W 220Ω
D1104	G2090266	" HZ4B3(RD3.9EB-2)	R1009	J02245331	Carbon Film 1/4W SJ 330Ω
D1111	G2090181	Varistor HZ7B1L	R1102, 1138, 1140, 1175	J02245471	" " " " " 470Ω
D1075	G2090220	Quad ND487R1-3R	R1020, 1024, 1025, 1059, 1064, 1067, 1095, 1128, 1136, 1178, 1186, 1187, 1233	J02245681	" " " " " 680Ω
D1090	G2090135	" ND487C2-3R	R1192	J02245821	" " " " " 820Ω
D1083, 1099	G9090007	Varistor MV12	R1001, 1008, 1023, 1036, 1037, 1045, 1051, 1060, 1071, 1096, 1100, 1109, 1116, 1122, 1125, 1162, 1168, 1196, 1197, 1208, 1224, 1231, 1232, 1243	J02245102	" " " " " 1kΩ
		SURGE ABSORBER			
D1096	G9000375	DSP-201			
		THERMISTOR			
TH1001	G9090016	33D28 (112252-2)	R1280	J01215102	" " " " 1/8W TJ 1kΩ
			R1066, 1139, 1141	J24205102	Chip Resistor 1/8W " 1kΩ
			R1105, 1244, 1041, 1042	J02245152	Carbon Film 1/4W SJ 1.5kΩ
		POSISTOR			
PTH1001	G9090034	PTH60BM330M	R1034, 1053, 1098, 1242	J02245222	" " " " " 2.2kΩ
			R1073, 1074, 1076, 1077, 1079, 1080, 1097, 1166, 1200, 1210	J02245332	" " " " " 3.3kΩ
		CRYSTAL			
X1001	H0102550	HC-18/U 8.67MHz	R1002, 1018, 1029, 1107, 1124, 1171, 1172, 1176, 1183, 1202, 1223, 1250, 1256, 1263	J02245472	" " " " " 4.7kΩ
		CRYSTAL FILTERS			
XF1001	H1102116	XF-47M-153-01	R1007, 1181, 1283	J24205472	Chip Resistor 1/10W 4.7kΩ
XF1002	H1102050	8.2M20	R1056, 1173, 1121	J02245562	Carbon Film 1/4W SJ 5.6kΩ
XF1003	H1102079	XF-8.2M-601-01 CW	R1279	J24205562	Chip Resistor 1/10W 5.6kΩ
XF1004	H1102080	XF-8.2M-272-01 SSB	R1091, 1219	J02245682	Carbon Film 1/4W SJ 6.8kΩ
		CERAMIC FILTERS			
CF1001	H3900340	LF-H6S AM			
CF1002	H3900200	CFW455E FM			

R1005, 1017, 1030, 1049, 1054, 1055, 1068, 1070, 1092, 1100, 1112, 1115, 1117, 1129, 1146, 1152, 1155, 1161, 1179, 1180, 1182, 1184, 1191, 1194, 1201, 1203, 1206, 1212, 1215, 1217, 1238, 1241, 1245, 1247, 1249, 1252, 1255, 1261, 1262, 1266, 1267, 1270-1272, 1275, 1277	J02245103	Carbon Film 1/4W SJ 10kΩ			POTENTIOMETERS	
				VR1001	J51745332	H0651A010-3.3KB 3.3kΩB
				VR1005-1007	J51745472	H0651A011-4.7KB 4.7kΩB
				VR1002, 1004, 1008, 1010	J51745103	H0651A013-10KB 10kΩB
				VR1003	J51745473	H0651A017-47KB 47kΩB
				VR1011	J51745105	H0651A025-1MB 1MΩB
				VR1009	J51757474	H1052C023-470KB 470kΩB
				VR1012	J51745102	H0651A007-10KB 1kΩ
						CAPACITORS
R1089	J01215103	" " 1/8W TJ 10kΩ	C1068	K00172040	Ceramic Disc 50WV SL 4pF (DD104SL040C50)	
R1052, 1177, 1282, 1284, 1285	J24205103	Chip Resistor 1/10W 10kΩ	C1003, 1052, 1054	K00172050	" " " " 5pF (DD104SL050C50)	
R1010, 1106, 1158, 1195	J02245153	Carbon Film 1/4W SJ 15kΩ	C1045, 1047	K00173080	" " " " 8pF (DD104SL080D50)	
R1278	J01245153	" " " TJ 15kΩ	C1152	K00173100	" " " " 10pF (DD104SL100J50)	
R1004, 1113, 1119, 1120, 1123, 1147, 1163, 1190, 1248, 1253, 1259	J02245223	" " " SJ 22kΩ	C1030, 1034	K00175120	" " " " 12pF (DD104SL120J50)	
R1006	J24205273	Chip Resistor 1/10W 27kΩ	C1041	K00175150	" " " " 15pF (DD104SL150J50)	
R1003, 1086, 1156, 1174, 1240	J02245333	Carbon Film 1/4W SJ 33kΩ	C1007, 1038, 1040, 1095, 1173	K00175220	" " " " 22pF (DD104SL220J50)	
R1048, 1069, 1084, 1104, 1130, 1265, 1276	J02245473	" " " " 47kΩ	C1031, 1033	K00179007	" " " " 30pF (DD104SL300J50)	
R1026	J24205473	Chip Resistor 1/10W 47kΩ	C1053, 1114	K00175330	" " " " 33pF (DD104SL330J50)	
R1165, 1207, 1213	J02245683	Carbon Film 1/4W SJ 68kΩ	C1024, 1026	K00175390	" " " " 39pF (DD104SL390J50)	
R1021, 1027, 1032, 1033, 1039, 1040, 1044, 1058, 1081, 1087, 1094, 1101, 1114, 1118, 1126, 1131, 1135, 1144, 1145, 1169, 1170, 1193, 1205, 1209, 1211, 1214, 1216, 1239, 1260, 1264, 1281	J02245104	" " " " 100kΩ	C1002	K00175470	" " " " 47pF (DD104SL470J50)	
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			C1016, 1020, 1272-1277	K00175560	" " " " 56pF (DD104SL560J50)	
			C1004	K00175680	" " " " 68pF (DD104SL680J50)	
			C1270, 1271	K02175820	" " " " CH 82pF (DD107CH820J50)	
R1031, 1057, 1111, 1132, 1143, 1151, 1154, 1160	J02245154	" " " " 150kΩ	C1023, 1027	K00175820	" " " " SL 82pF (DD104SL820J50)	
R1257	J02245224	" " " " 220kΩ	C1005	K22170133	Chip Capacitor 50WV SL 82pF (C2012SL1H820JFA)	
R1268	J24205224	Chip Resistor 1/10W 220kΩ	C1086, 1089, 1137, 1150, 1176	K00175101	Ceramic Disc 50WV SL 100pF (DD105SL101J50)	
R1108	J02245334	Carbon Film 1/4W SJ 330kΩ	C1012	K00179015	" " " " 110pF (DD105SL111J50)	
R1258	J02245394	" " " " 390kΩ	C1032	K00175121	" " " " 120pF (DD105SL121J50)	
R1246	J02245474	" " " " 470kΩ	C1006, 1157	K00175151	" " " " 150pF (DD106SL151J50)	
R1218, 1251, 1273, 1274	J02245105	" " " " 1MΩ	C1018	K00175181	" " " " 180pF (DD106SL181J50)	
R1090	J02245155	" " " " 1.5MΩ	C1175	K00175221	" " " " 220pF (DD107SL221J50)	
R1019	J02245225	" " " " 2.2MΩ				
R1296	J24205000	Chip Jumper				

C1097, 1098	K00179020	Ceramic Disc 50WV SL 240pF (DD107SL241J50)	C1195, 1257	K50177333	Mylar 50WV 0.033μF (50F2U333M)
C1025	K00179021	" " " " 300pF (DD107SL301J50)	C1189, 1234	K40179010	Electrolytic 50WV 0.47μF (RE-50VR47M)
C1169-1171	K06179018	" " " UJ 330pF (DD110U331J50)	C1011, 1141, 1148, 1158, 1165, 1185, 1186, 1191, 1193, 1200, 1202, 1203	K40179013	" 50WV 1μF (RE-50V010M)
C1072, 1074-1078, 1080, 1142, 1145, 1146, 1222, 1228- 1230, 1237-1240, 1249	K26170649	" " " E 0.001μF (DD104E102P50)	C1139, 1159, 1208, 1233	K40179012	" " 4.7μF (RE-50V4R7M)
C1224	K10176102	" " " B 0.001μF (DD104B102K50)	C1022, 1029, 1036, 1043, 1050, 1057, 1090, 1099, 1153, 1192, 1207, 1248, 1252	K40179014	" " 10μF (RE-50V100M)
C1066	K22170805	Chip Capacitor 50WV B 0.001μF (C2012B1H102MFA)	C1188, 1197, 1198, 1201	K40149025	" 25WV 22μF (RE-25V220M)
C1021, 1028, 1035, 1042, 1049, 1056, 1081, 1083-1085, 1087, 1088, 1091, 1092, 1094, 1101- 1112, 1115, 1119, 1120, 1123, 1124, 1133, 1149, 1151, 1166, 1168, 1172, 1174, 1177, 1216- 1218, 1220, 1221, 1223, 1225-1227, 1231, 1232, 1256, 1263	K13179008	Ceramic Disc 50WV F 0.01μF (DD106F103Z50)	C1209, 1212	K40149022	" " 47μF (RE-25V470M)
FOR SERVICE MANUALS CONTACT: MAURITRON TECHNICAL SERVICES www.mauritron.co.uk TEL: 01844 - 351694 FAX: 01844 - 352554			C1214, 1253	K40149003	" " 100μF (RE-25V101M)
C1008, 1017, 1044 1048, 1071, 1082, 1093, 1096, 1144, 1264-1268	K22170817	Chip Capacitor 50WV B 0.01μF (C2012B1H103MFA)	C1211, 1213	K40129049	" 16WV 470μF (RE-16V471M)
C1060, 1061, 1067, 1070, 1073, 1100, 1116-1118, 1121, 1122, 1125-1131, 1134-1136, 1143, 1178-1180, 1182, 1219, 1236, 1242, 1247, 1250, 1251, 1259	K13179009	Ceramic Disc 50WV F 0.047μF (DD110F473Z50)	C1055	K70127106	Tantalum 16WV 10μF (DN1C100MIS)
C1001, 1010, 1015, 1037, 1064, 1065, 1244, 1269	K22141003	Chip Capacitor 25WV F 0.047μF (C2012F1E473ZFA)			
C1009, 1063, 1215	K22141904	" " " " 0.1μF (C3216D1E104MFA)			BLOCK CAPACITOR
C1013, 1059, 1062, 1069, 1132, 1138, 1181, 1183, 1184, 1241, 1246	K19149021	Semiconductor Ceramic 25WV 0.047μF (UAT08X473K-L45AE)	CB1001	K80000002	CA1036
C1113, 1187	K19149023	" " " 0.068μF (UAT10X683K-L45AE)			INDUCTORS
C1019, 1058, 1154-1156, 1160, 1235, 1254	K19149025	" " " 0.1μF (UAT10X104K-L45AE)	L1001	L0021221	
C1161, 1162, 1199, 1245	K50177102	Mylar 50WV 0.001μF (50F2U102M)	L1002	L0021222	
C1196	K50177222	" " " 0.0022μF (50F2U222M)	L1003	L1190024	FL5H221K 220μH
C1163, 1164, 1210, 1255, 1260	K50177103	" " " 0.01μF (50F2U103M)	L1004, 1035, 1037, 1039, 1050, 1052	L1190175	LHL06NA101K 100μH
C1140, 1147, 1204-1206, 1258	K50177223	" " " 0.022μF (50F2U223M)	L1008, 1036	L1190133	LAL04NA101K 100μH
			L1005, 1007	L1190171	LHL06NA390K 39μH
			L1006	L1190035	FL7H-392J 3.9mH
			L1009, 1013, 1015, 1017	L1190168	LHL06NA270K 27μH
			L1010, 1012	L1190022	LHL06NA560K 56μH
			L1011	K1190070	FL4H-8R2K 8.2μH
			L1014, 1018	L1190167	LHL06NA220K 22μH
			L1016	K1190013	FL4H-6R8K 6.8μH
			L1019, 1023	L1190165	LHL06NA150K 15μH
			L1020, 1022, 1046, 1047, 1056	L1190163	LHL06NA100K 10μH
			L1021	L1190011	FL4H-4R7K 4.7μH
			L1024, 1028	L1190160	LHL06NA5R6K 5.6μH
			L1025, 1027	L0190050	RC3855-8R2K 8.2μH
			L1026	L1190087	FL4H-1R5M 1.5μH
			L1029, 1033	L0190045	RC3855-3R3M 3.3μH
			L1030, 1032	L0190048	RC3855-5R6K 5.6μH
			L1031	L1190005	FL4H-1R0M 1μH
			L1034, 1038, 1045, 1049, 1051, 1057	L1190187	LHL06NA102K 1mH
			L1040-1043	L1190121	S4-101K 100μH
			L1044	L0021394	

2026, 2033, 2034, 2044, 2059, 2060, 2062, 2063, 2073, 2075, 2076			CO2001	H7900170	CERAMIC RESONATOR CSA4.00MG5
Q2010, 2011, 2019, 2028, 2030, 2036, 2038, 2039, 2041, 2045-2048, 2054, 2055, 2057	G3305350B	2SC535B			
Q2058	G3090010	2N4427	R2233	J02245229	RESISTORS Carbon Film 1/4W SJ 2.2Ω
Q2016	G3309450P	2SC945AP	R2174	J02245100	" " " " 10Ω
Q2056	G3406691	2SD669A	R2023, 2031, 2053, 2059, 2061, 2063, 2088, 2108, 2157, 2163, 2217, 2218, 2234, 2268	J02245470	" " " " 47Ω
			R2111	J02245680	" " " " 68Ω
			R2142	J01245680	" " " TJ 68Ω
		DIODES	R2008, 2013, 2021, 2024, 2034, 2038, 2041, 2043, 2056, 2058, 2062, 2065, 2067, 2068, 2078, 2084, 2089-2091, 2105, 2109, 2116, 2118, 2122, 2126, 2134, 2137, 2140, 2148-2151, 2153, 2155, 2159, 2161, 2165, 2168, 2172, 2180, 2183, 2189, 2195, 2201, 2207, 2214, 2219, 2221, 2222, 2227, 2229, 2241, 2269, 2281, 2312	J02245101	" " " SJ 100Ω
D2001, 2002, 2077, 2078	G2001880F	Ge 1S188FM1			
D2003-2006, 2008, 2009, 2011-2015, 2017, 2018, 2021-2023, 2026-2039, 2045-2052, 2057-2076, 2080, 2082, 2083, 2085-2090, 2092-2095, 2097-2103	G2090237	Si MA190 (1S1555)			
D2024	G2090223	Schottky Barrier 1SS101	R2101, 2124, 2169	J02245151	" " " " 150Ω
D2040, 2079	G2090244	" " 1SS106	R2285, 2286	J01245221	" " " TJ 220Ω
D2041	G2090002	Si 10D10	R2027, 2287	J02245221	" " " SJ 220Ω
D2084	G2090118	Schottky Barrier 1SS97	R2288-2290	J24205221	Chip Resistor 1/10W 220Ω
D2010, 2043	G2090180	Varactor FC53M-5	R2057	J02245271	Carbon Film 1/4W SJ 270Ω
D2019	G2090165	" FC52M-5	R2135, 2240, 2274	J02245331	" " " " 330Ω
D2020	G2090023	" 1SV50	R2100	J02245391	" " " " 390Ω
D2053-2056	G2090316	" SVC211SC	R2317	J24205471	Chip Resistor 1/10W 470Ω
D2016	G2090192	Zener RD7.5EB3	R2004, 2007, 2055, 2079, 2094, 2110, 2117, 2125, 2128, 2138, 2141, 2147, 2152, 2160, 2166, 2175, 2177, 2208, 2215, 2223, 2230, 2232, 2237, 2265, 2298	J02245471	Carbon Film 1/4W SJ 470Ω
D2025, 2091	G2090197	" RD9.1EB3			
D2042, 2044	G2090152	" RD5.1EB2			
D2081	G2090193	" RD5.6EB3			
D2096	G2090042	" RD8.2EB3			
D2007	G9090005	Varistor MV103			
		THERMISTOR			
TH2001	G9090008	31D26	R2299	J24205561	Chip Resistor 1/10W 560Ω
			R2119, 2129, 2143, 2231	J02245681	Carbon Film 1/4W SJ 680Ω
		CRYSTALS	R2242	J02245821	" " " " 820Ω
X2001	H0102553B	HC-18/U 15.0007MHz	R2001, 2014, 2051, 2066, 2085, 2106, 2112, 2123, 2133, 2154, 2167, 2173, 2176, 2224, 2239, 2243, 2245, 2247, 2255, 2256, 2280, 2283	J02245102	" " " " 1kΩ
X2002	H0102554A	HC-18/U 15.0000MHz			
X2003	H0102555A	HC-18/U 6.7834MHz (VXO 6.7841MHz)			
X2004	H0102556A	HC-18/U 6.7866MHz			
X2005	H0102551A	HC-49/U 32.060MHz			
X2006	H0102552B	HC-49/U 15.000MHz			
			R2291, 2320	J01245221	" " " TJ 1kΩ
			R2308-2311	J24205102	Chip Resistor 1/10W 1kΩ
			R2130	J02245152	Carbon Film 1/4W SJ 1.5kΩ
			R2178	J02245182	" " " " 1.8kΩ

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R2006, 2009, 2016, 2028, 2042, 2069, 2273	J02245222	Carbon Film 1/4W SJ 2.2kΩ			BLOCK RESISTORS
			RB2001	J40900024	RK1/16B8K 10kΩ×8
			RB2002, 2003	J40900023	DA-2
R2050	J02245272	" " " " 2.7kΩ	RB2004	J40900022	DA-1
R2306	J24205332	Chip Resistor 1/10W 3.3kΩ			
R2020, 2049, 2300	J02245332	Carbon Film 1/4W SJ 3.3kΩ			
R2012, 2026, 2030, 2037, 2052, 2080, 2096, 2098, 2115, 2146, 2225, 2235, 2267	J02245472	" " " " 4.7kΩ			
					POTENTIOMETERS
			VR2001	J51760502	GF06P-5K 5kΩB
R2032, 2035, 2040, 2072, 2251	J02245562	" " " " 5.6kΩ	VR2002, 2003, 2005	J51745103	H0651A013-10KB 10kΩB
R2296, 2314	J24205562	Chip Resistor 1/10W 5.6kΩ	VR2004	J51745223	H0651A015-22KB 22kΩB
R2278, 2301	J02245682	Carbon Film 1/4W SJ 6.8kΩ	VR2006	J51769504	PK502H504H0 500kΩB
R2019, 2045, 2046, 2048, 2054, 2063, 2076, 2082, 2086, 2093, 2099, 2104, 2113, 2121, 2127, 2132, 2149, 2158, 2164, 2171, 2179, 2181, 2182, 2184, 2186-2188, 2192-2194, 2196, 2198-2200, 2202, 2204, 2206, 2209-2213, 2228, 2249, 2250, 2252, 2254, 2260, 2264, 2270, 2271, 2272, 2277, 2279, 2282-2284, 2302-2305, 2313	J02245103	" " " " 10kΩ	VR2007	J51745472	H0651A011-4.7KB 4.7kΩB
			VR2008	J50709103	H1052A013-10KB 10kΩB
			VR2009, 2010, 2012	J51757103	H1052C013-10KB 10kΩB
			VR2011	J51745471	H0651A005-470B 470ΩB
			VR2013	J51757474	H1052C023-470KB 470kΩB
			VR2014	J51745333	H0651A016-33KB 33kΩB
			VR2015	J51769103	PK502H103H0 10kΩB
					CAPACITORS
			C2103, 2151, 2165, 2166	K00179001	Ceramic Disc 50W SL 0.5pF (DD104SL0R5C50)
			C2154, 2171, 2172, 2229	K00172010	" " " " 1pF (DD104SL010C50)
			C2135	K02179001	" " " " CH 1pF (DD104CK010C50)
R2321, 2322	J01245103	" " " TJ 10kΩ	C2134	K02179002	" " " " 1.5pF (DD104CK1R5C50)
R2315-2317, 2262	J24205103	Chip Resistor 1/10W 10kΩ	C2127	K02172020	" " " " 2pF (DD104CH020C50)
R2044	J02245123	Carbon Film 1/4W SJ 12kΩ	C2096	K00172020	" " " " SL 2pF (DD104SL020C50)
R2075, 2205	J02245153	" " " " 15kΩ	C2067	K02172030	" " " " CH 3pF (DD104CH030C50)
R2261	J24205223	Chip Resistor 1/10W 22kΩ	C2146	K00172040	" " " " SL 4pF (DD104SL040C50)
R2003, 2005, 2010, 2011, 2039, 2047, 2077, 2083, 2092, 2095, 2097, 2103, 2131, 2156, 2162, 2226, 2236, 2292-2295, 2318	J02245223	Carbon Film 1/4W SJ 22kΩ	C2078	K02172040	" " " " CH 4pF (DD104CH040C50)
R2074, 2114, 2145, 2257	J02245473	" " " " 47kΩ	C2264	K02172050	" " " " 5pF (DD104CH050C50)
R2033, 2070	J02245683	" " " " 68kΩ	C2052, 2053	K00172050	" " " " SL 5pF (DD104SL050C50)
R2002, 2015, 2017, 2018, 2022, 2025, 2029, 2060, 2064, 2071, 2073, 2081, 2087, 2102, 2107, 2120, 2136, 2139, 2170, 2185, 2190, 2191, 2197, 2202, 2203, 2216, 2220, 2238, 2244, 2246, 2266, 2319	J02245104	" " " " 100kΩ	C2202, 2209, 2216, 2218, 2223, 2225	K06172050	" " " " UJ 5pF (DD104UJ050C50)
			C2100	K00173060	" " " " SL 6pF (DD104SL060D50)
			C2049	K02173060	" " " " CH 6pF (DD104CH060D50)
			C2071	K02173080	" " " " 8pF (DD104CH080D50)
			C2094	K02173100	" " " " 10pF (DD104CH100D50)
R2036	J02245224	" " " " 220kΩ	C2201	K00173100	" " " " SL 10pF (DD104SL100D50)
R2253, 2307	J02245105	" " " " 1MΩ	C2211	K06173100	" " " " UJ 10pF (DD104UJ100D50)
R2248	J02245335	" " " " 3.3MΩ			
R2259	J02245565	" " " " 5.6MΩ	C2144	K00175120	" " " " SL 12pF (DD104SL120J50)
			C2111, 2113, 2277, 2278	K00175150	" " " " 15pF (DD104SL150J50)

C2129	K02175150	Ceramic Disc 50WV CH 15pF (DD104CH150J50)	C2190	K00175151	Ceramic Disc 50WV SL 150pF (DD106SL151J50)
C2204	K06175150	" " " UJ 15pF (DD104UJ150J50)	C2239	K02175151	" " " CH 150pF (DD109CH151J50)
C2167, 2279	K00175180	" " " SL 18pF (DD104SL180J50)	C2063	K02179023	" " " " 180pF (DD110CH181J50)
C2224	K06175180	" " " UJ 18pF (DD104UJ180J50)	C2283, 2288	K22170143	Ceramic Chip 50WV SL 220pF (C2012SL1H221JFA)
C2092	K22170217	Chip Ceramic 50WV CH 18pF (C2012CH1H180JFA)	C2187	K00179020	Ceramic Disc 50WV SL 240pF (DD107SL241J50)
C2089	K02179008	Ceramic Disc 50WV CH 20pF (DD104CH200J50)	C2031	K00175331	" " " " 330pF (DD107SL331J50)
C2217	K06175220	" " " UJ 22pF (DD104UJ220J50)	C2186, 2188	K00175471	" " " " 470pF (DD109SL471J50)
C2142, 2173	K00175220	" " " SL 22pF (DD104SL220J50)	C2088	K22170805	Chip Ceramic 50WV B 0.001µF (C2012BIH102MFA)
C2038, 2067	K02179010	" " " CH 24pF (DD104CH240J50)	C2036, 2198, 2199, 2228, 2256	K12171102	Ceramic Disc 50WV E 0.001µF (DD104EL102P50)
C2128	K06175270	" " " UJ 27pF (DD104UJ270J50)	C2001, 2002	K12171222	" " " " 0.0022µF (DD105E222P50)
C2242, 2246	K00175270	" " " SL 27pF (DD104SL270J50)	C2037, 2039, 2042-2044, 2050, 2070, 2072-2074, 2076, 2077, 2079, 2082, 2083, 2093, 2095, 2098, 2099, 2101, 2102, 2104- 2110, 2114-2116, 2120, 2125, 2131, 2132, 2136, 2137, 2139, 2149, 2150, 2152, 2153, 2155- 2159, 2161-2164, 2168-2170, 2174- 2181, 2189, 2191, 2192, 2196, 2205, 2212, 2219, 2226, 2230-2238, 2240, 2241, 2243, 2245, 2248, 2268, 2272, 2273, 2276, 2282	K13179008	" " " " F 0.01µF (DD106F103Z50)
C2269, 2270	K00179007	" " " " 30pF (DD104SL300J50)			
C2112, 2182, 2185	K00175330	" " " " 33pF (DD104SL330J50)			
C2126, 2203, 2210,	K06175330	" " " UJ 33pF (DD104UJ330J50)			
C2057, 2059	K02175330	" " " CH 33pF (DD105CH330J50)			
C2141	K00175390	" " " SL 39pF (DD104SL390J50)			
C2214	K06175390	" " " UJ 39pF (DD104UJ390J50)			
C2214	K06179008	" " " " 43pF (DD104UJ430J50)			
C2081, 2249	K00175470	" " " SL 47pF (DD104SL470J50)			
C2221	K06175470	" " " UJ 47pF (DD104UJ470J50)			
C2147, 2244	K00175560	" " " SL 56pF (DD104SL560J50)			
C2029	K02175560	" " " CH 56pF (DD106CH560J50)	C2066, 2080, 2118, 2208, 2222, 2289	K22170817	Chip Capacitor 50WV B 0.01µF (C2012BIH103MFA)
C2130	K05175560	" " " RH 56pF (DD106RH560J50)	C2017, 2021, 2022, 2045-2048, 2051, 2054-2056, 2058, 2060-2062, 2065, 2075, 2140, 2160, 2267	K13179010	Ceramic Disc 50WV F 0.022µF (DD108F223Z50)
C2207	K06179009	" " " UJ 56pF (DD104UJ560J50)			
C2183, 2184	K00175680	" " " SL 68pF (DD104SL680J50)	C2265, 2266	K19149005	Semiconductor Ceramic 25WV 0.0022µF (UAT04X222K-L05AE)
C2200	K06175820	" " " UJ 82pF (DD106UJ820J50)			
C2143, 2247, 2251	K00179013	" " " SL 91pF (DD105SL910J50)	C2280	K19149009	" " " 0.0047µF (UAT05X472K-L05AE)
C2068, 2069	K06179012	" " " UJ 91pF (DD106UJ910J50)			
C2145	K00175101	" " " SL 100pF (DD105SL101J50)	C2004	K19149011	" " " 0.0068µF (UAT05X682K-L05AE)
C2040, 2041	K02175101	" " " CH 100pF (DD107CH101J50)	C2026, 2123, 2193, 2252	K19149013	" " " 0.01pF (UAT05X103K-L05AE)
C2091	K06175101	" " " UJ 100pF (DD107UJ101J50)			
C2090	K06175121	" " " " 120pF (DD107UJ121J50)	C2010, 2012, 2033, 2034	K19149017	" " " 0.022µF (UAT06X223K-L45AE)
C2064, 2117	K02175121	" " " CH 120pF (DD109CH121J50)	C2011, 2257, 2260	K19149021	" " " 0.047µF (UAT08X473K-L45AE)

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C2084, 2085	K19149025	Semiconductor Ceramic 25WV 0.1µF (UAT10X104K-L46AE)	T2001 T2002	L0021197 L0021199	TRANSFORMERS
C2014, 2015, 2018-2020	K70167105	Tantalum 35WV 1µF (DN1V010MIS)	T2003-2005 T2006, 2007, 2009, 2010	L0021337 L0020909	
C2215	K70127106	" 16WV 10µF (DN1C100MIS)	T2008	L0021205	
C2023, 2122, 2194	K40179010	Electrolytic 50WV 0.47µF (RE-50VR47M)	T2011, 2012, 2018-2021	L0020805	
C2030, 2035, 2119, 2195, 2250, 2255, 2261	K40179013	" " 1µF (RE-50V010M)	T2013, 2022 T2014-2017 T2023	L0020788A L0021338 L0021398	
C2262, 2271	K40179009	" " 2.2µF (RE-50V2R2M)	T2024 T2025	L0021399 L0021400	
C2005-2009, 2013, 2024, 2025, 2027, 2028, 2032, 2087, 2097, 2121, 2138, 2197, 2254, 2258, 2259, 2274	K40179014	" " 10µF (RE-50V100M)	T2026	L0021401	
				L9190016	Shield Case
					SWITCHES
C2206, 2213, 2220, 2227	K40129008	" 16WV 33µF (RE-16V330M)	S2001, 2002	N4090012	SPJ-22-A01
C2016	K40109002	" 10WV 47µF (RE-10V470M)			
C2133	K40109010	" " 47µF (RC2-10V470M)	J2004, 2022	P0090191	CONNECTORS B2B-XHA
C2124	K40109001	" " 100µF (RE-10V101M)	J2002, 2003, 2013, 2016, 2018	P0090192	B3B-XHA
C2086, 2253, 2263, 2275	K40129038	" 16WV 100µF (RC2-16V101M)	J2012 J2023 J2010, 2011, 2025 J2019, 2021 J2001, 2014 J2015 J2024 J2020	P0090204 P0090193 P0090194 P0090195 P0090196 P0090209 P0090200 P0090201	S3B-XHA B4B-XHA B5B-XHA B6B-XHA B7B-XHA S8B-XHA B11B-XHA B12B-XHA
		BLOCK CAPACITORS			
CB2001	K80000001	CA1034 0.01×4	J2007-2009, 2017	P1090255	TMP-JA
CB2002, 2003	K80000003	CA1037 0.01×7	J2005 J2006 P2001 with wire	P1090348 P1090296 T9204722A	S-Q3097-01 Black S-Q3097-02 Red 3021-03
		TRIMMER CAPACITORS			
TC2001, 2006	K91000085	CTZ51C122 10pF			
TC2002, 2003	K91000108	CTZ51A 6pF			LITHIUM BATTERY
TC2004, 2005	K91000093	CTZ51F 30pF	BAT2001	Q9000248	CR-1/3N-P
		INDUCTORS			TP TERMINALS
L2001, 2002, 2003, 2032	L1190115	S-154K 150mH		Q5000050 Q5000037	TR-K TP-H
L2004, 2005, 2007	L1190177	LHL06NA151K 150µH			
L2006	L0021206B			R5047912C	HEATSINK
L2008-2010	L1190180	LHL06NA271K 270µH		R0100940B	Shield Case
L2011	L0020746			R0100950	Shield Cover
L0212	L1190017	FL5H102K 1mH		R0102280	Shield Plate A
L2013, 2014, 2025	L1190163	LHL06NA100K 10µH		R0103060	Shield Plate B
L2015, 2027	L1190151	LHL06NA1ROM 1µH		R0103190A	Plate Spring
L2016	L1190134	S4-180K 18µH			
L2017, 1028	L2290147	S4-270K 27µH			
L2019-2022	L1190155	LHL06NA2R2M 2.2µH			
L2022, 2023	L1190161	LHL06NA6R8K 6.8µH			
L2026	L1190159	LHL06NA4R7K 4.7µH			
L2028, 2029	L0021409				
L2030, 2031	L0021410				
L2033	L1190336	LAL04NA271K 270µH			
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		TRANSISTORS		C4005	K40179011	Electrolytic 50WV 3.3 μ F (RE-50V3R3M)
Q4003-4009	G3111627G	2SA1162GRTE85R				
Q4001	G3304960Y	2SC496Y		C4002	K40179014	" " 10 μ F (RE-50V100M)
Q4011	G3327127G	2SC2712GRTE85R		C4004	K40129004	" 16WV 10 μ F (RE-16V100M)
				C4007	K40129007	" " 100 μ F (RE-16V101M)
		DIODES				
D4001, 4009, 4012-4014, 4016-4020	G2070001	Si	1S181TE85R			
D4003	G2090132	"	1SS55			INDUCTORS
D4004	G2090188	Zener	HZ5C1	L4001, 4002	L1190123	S6-392K 3.9 μ H
D4005	G2090265	"	RD30EB2			
D4007	G2090266	"	HZ4B3			
D4020	G2090202	LED	LN410YP			
D4002, 4006, 4008, 4010, 4011	G2015550	Si	1S1555	T4001	L3030106	DC-DC TRANSFORMER MPS-162
D4021	G2090375	LED	GL9PR4 (Red)			
D4022	G2090374	"	GL9PG4 (Green)			
D4023	G2015540	Si	1S1554			SWITCHES
				S4001, 4002	N4090081	SPH121C16 (Lock)
				S4003	N6090008	SSS012148
		DISPLAY		S4004-4015	N5090010	KEG10904
DS4001	G6090033	FIP9E7				
						CONNECTORS
		CERAMIC RESONATOR		J4001	P0090191	B2B-XHA
CO4001	H7900150	CSB500E		J4002	P0090194	B5B-XHA
				J4003, 4004	P0090196	B7B-XH9
				P4001 (with wire)	T9205451A	XHP-12
				P4002 "	TP204727A	XHP-4
		RESISTORS				
R4003	J02245101	Carbon Film 1/4W SJ 100 Ω				
R4008	J01245561	" " "	TJ 560 Ω		Q5000037	TERMINAL TP-H
R4004	J02245152	" " "	SJ 1.5k Ω			
R4007	J01245563	" " "	TJ 56k Ω			
R4001	J24205100	Chip Resistor 1/10W 10 Ω				
R4031	J24205271	" " "	270 Ω			DIAL UNIT
R4012	J24205471	" " "	470 Ω	Symbol No.	Part No.	Name & Description
R4025-4030	J24205821	" " "	820 Ω		F2559000A	Printed Circuit Board
R4006	J24205332	" " "	3.3k Ω		C025590A	PCB with Components
R4005, 4011, 4013-4024	J24205103	" " "	10k Ω			
R4009	J24205104	" " "	100k Ω			ICS
R4010	J24205274	" " "	270k Ω	Q5001	G1090068	MC14011BCP
				Q5002	G1090224	MC14584BCP
				Q5003	G1090029	MC14071BCP
				Q5004	G1090548	MC14082BCP
				Q5005	G1090067	MC14013BCP
		CAPACITORS				
C4008	K22170127	Chip Capacitor 50WV SL 47pF (C2012SL1H470JFA)				
C4009	K22170139	" " "	150pF (C2012SL1H151JFA)			DIODES
C4006	K22170817	" " " B	0.01 μ F (C2012B1H103MFA)	D5001-5003	G2015550	Si 1S1555 (1S1554, 1SS53)
C4011	K50177152	Mylar 50WV 0.0015 μ F (50F2U152M)				
C4001	K50177222	" " "	0.0022 μ F (50F2U222M)			BUZZER
C4003	K50177153	" " "	0.015 μ F (50F2U153M)	BZ5001	M4290001	EFB-RE25D02
C4010	K40179013	Electrolytic 50WV 1 μ F (RE-50V010M)				

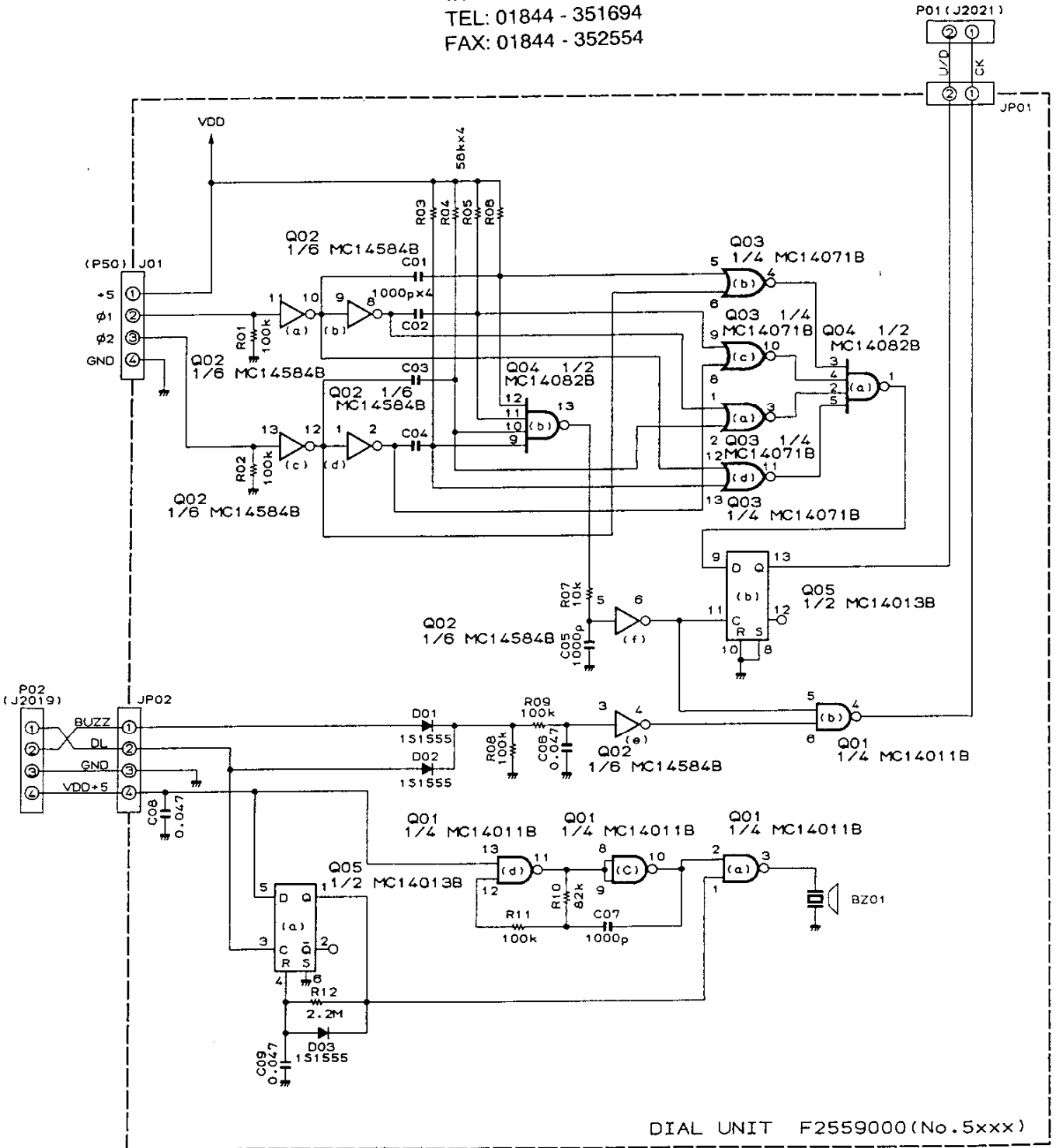
			10W PA UNIT				
			Symbol No.	Part No.	Name & Description		
C6002, 6003, 6026	K13179008	Ceramic Disc 50WV F 0.01 μ F (DD106F103Z50)					
C6001, 6004, 6008, 6010, 6014, 6017, 6021, 6023, 6025, 6028, 6029, 6031, 6036	K13179009	" " " " 0.047 μ F (DD110F473Z50)		F2555000A	Printed Circuit Board		
				C025550A	PCB with Components		
C6033, 6044	K19149025	Semiconductor Ceramic 25WV 0.1 μ F (UAT13X104-L46AE)			ICS		
			Q7004	G1090080	μ PC78L08		
			Q7008	G1090068	MC14011BCP		
C6005, 6038, 6041	K50177103	Mylar 50WV 0.01 μ F (50F2U103M)					
C6043	K50177123	" " 0.012 μ F (50F2U123M)			TRANSISTORS		
C6040	K50177153	" " 0.015 μ F (50F2U153M)	Q7007	G3110120Y	2SA1012Y		
			Q7006	G3304580D	2SC458D		
C6015, C6016	K50177683	" " 0.068 μ F (50F2U683M)	Q7001	G3321660	2SC2166		
			Q7002, 7003	G3325090	2SC2509		
C6022, 6024, 6027, 6030, 6032, 6035	K70140013	Tantalum 25WV 10 μ F (489D106X0025D1)	Q7005	G3408820Q	2SD882Q		
			Q7009	G3408920R	2SD892R		
C6037	K40179013	Electrolytic 50WV 1 μ F (RE-50V010M)					
C6039	K40129016	" " 16WV 22 μ F (RE-16V220M)			DIODES		
C6034	K40129021	" " 1000 μ F (16R102S)	D7003-7009	G2015550	Si 1S1555		
			D7001	G2090217	Zener HZ3C1		
			D7002	G2015880	Si 1S1588		
			D7010	G2090001	Si 10D1		
		INDUCTORS					
L6001, 6006, 6007	L1020015				RESISTORS		
L6002-6005	L1020035A						
L6009	L1190020	150 μ H	R7008, 7010	J01275150	Carbon Film 1/2W TJ 15 Ω		
L6010	L1190009	FL4H-3R3M 3.3 μ H	R7007	J01275390	" " " " 39 Ω		
L6008	L0021432		R7025	J20336680	Metallic Film 2W 68 Ω		
			R7018	J02245101	Carbon Film 1/4W SJ 100 Ω		
			R7024	J01245121	" " " TJ 120 Ω		
			R7009, 7011	J01275151	" " 1/2W " 150 Ω		
			R7005	J02245151	" " 1/4W SJ 150 Ω		
			R7001	J02245221	" " " " 220 Ω		
			R7012	J02245331	" " " " 330 Ω		
T6001	L0021402		R7002	J02245471	" " " " 470 Ω		
			R7020	J01245471	" " " TJ 470 Ω		
			R7003, 7004	J01245821	" " " " 820 Ω		
			R7006	J01275102	" " 1/2W " 1k Ω		
			R7021	J02245102	" " 1/4W SJ 1k Ω		
			R7026	J01215222	" " 1/8W TJ 2.2k Ω		
			R7013, 7017, 7019	J02245103	" " 1/4W SJ 10k Ω		
T6002	L0021403A		R7022	J02245223	" " " " 22k Ω		
			R7016	J02245154	" " " " 150k Ω		
			R7014	J01245105	" " " TJ 1M Ω		
			R7023	J02245105	" " " SJ 1M Ω		
			R7015	J02245155	" " " " 1.5M Ω		
T6003	L0021404						
		RELAY					
RL6001	M1190055	JB1a-DC12V	R7026	J01215222	" " 1/8W TJ 2.2k Ω		
			R7013, 7017, 7019	J02245103	" " 1/4W SJ 10k Ω		
			R7022	J02245223	" " " " 22k Ω		
			R7016	J02245154	" " " " 150k Ω		
		CONNECTORS					
J6002, 6004, 6005, 6008	P0090191	B2B-XHA	R7014	J01245105	" " " TJ 1M Ω		
			R7023	J02245105	" " " SJ 1M Ω		
			R7015	J02245155	" " " " 1.5M Ω		
J6006	P0090193	B4B-XHA					
J6003	P0090194	B5B-XHA					
J6001, 6007	P1090255	TMP-JA					
	Q5000011	TERMINAL C			POTENTIOMETER		
			VR7001	J51727222	H1021A309-2.2KB 2.2k Ω B		
	R0100960A	HEATSINK					
	Q9000192	THERMAL CONDUCTOR					
	Q9000284	INSULATOR					
	R0100970	TERMINAL			CAPACITORS		
			C7012	K30276680	Dipped Mica 500WV 68pF (LCQ12680K5)		
			C7009, 7011	K30276221	" " " " 220pF (LCQ17221K5)		

FP-757HD PARTS LIST

MAIN CHASSIS					JACK
Symbol No.	Part No.	Description		P0090093	XG-9242 (FAN)
		TRANSISTORS			
Q1-3	G3407170	2SD7170 or Y			PLUG
				P1090140	PJ-2 (FAN)
		DIODE			THERMAL SWITCH
D1	G2090121	S25VB10	TS1	N7090027	OHD-50M
		RESISTORS			RECEPTACLE
R1	J30379002	Cement 5 W 10 Ω (SQ5L 10)		P0090094	PA125
R2-4	J30379001	" " 0.05 Ω (SQ5L R05)			FUSES
				Q0000012	6A 100V-117VAC
				Q0000004	3A 200V-234VAC
		CAPACITORS			AVR UNIT
C1,2	K12329001	Ceramic disc 1.4 KV 0.01 μ F (ECK-DAL103PE)		F0002156	Printed Circuit Board
				C021561A	PCB with Components
C6	K13179009	" " 50 WV 0.047 μ F (DD110F473Z50V)			FET
C3-5	K43140005	Electrolytic 25 WV 33000 μ F (25LE33000)	Q101	G3801920B	2SK192BL
		POWER TRANSFORMER	Q103	G3109500Y	2SA950Y
PT1	L3030081A		Q102	G3110120Y	2SA1012Y
		SPEAKER			DIODES
SP1	M4090048	SA-128D1	D101,102,105	G2090001	Si 10D1
			D104	G2015550	Si 1S1555
		RELAY	D103	G2090246	Zener RD6.2EB2
RL1	M1090016	FRL263D012/01CS-0E			RESISTORS
		SWITCH	R106	J00275270	Carbon film $\frac{1}{2}$ W 27 Ω VJ
SW1	N2090024	8H2011	R101	J02245560	$\frac{1}{2}$ W 56 Ω SJ
	S6000026	Switch lever	R102	J02245821	" " " 820 Ω "
			R105	J02245222	" " " 2.2 k Ω "
		OUTPUT TERMINALS	R103,104	J02245332	" " " 3.3 k Ω "
	Q5000044	T1 (Red)			POTENTIOMETER
	Q5000045	T1 (Black)			
		OUTPUT CABLE	VR101	J50735472	H1022A 311-4.7KB 4.7 k Ω B
	T9203030D				CAPACITORS
		FUSES	C104	K50177223	Mylar 50 WV 0.022 μ F (50F2U223M)
F1	Q0000012	6A (100-117 VAC)			
F1	Q0000004	3A (200-234 VAC)	C103	K50177473	" " 0.047 μ F (50F2U473M)
F2	Q0000033	25A (MF-60) DC			
		FUSE HOLDERS	C101	K40149010	Electrolytic 25 WV 330 μ F (25RE330)
FH1	P20000012	SN2059	C102,105	K40129011	" 16 WV 1000 μ F (16RE1000)
FH2	Q2000001	SN1101			ACCESSORIES
		LED			AC CORD
PL1	G2090141	DB20 (Red)		T9013280	2 wire, 2 prong plug (YFC-13K)
				T9013282	3 wire, 3 prong UL plug(YFC-03K)
		TERMINAL BOARDS		T9013283	3 wire, 3 prong Australian plug (YFC-07K)
	Q6000013	1L5PS (2-0-3)			
	Q6000014	1L5PS (3-0-2)		T9013284	3 wire, 2 prong EU plug(YFC-09K)
		FAN/MOTOR			SPARE FUSES
	M2090006	FBS-08A12LZNA		Q0000012	6A 100V-117VAC
				Q0000004	3A 200V-234VAC
	R7080690	FAN PACKING		Q0000033	25A DC

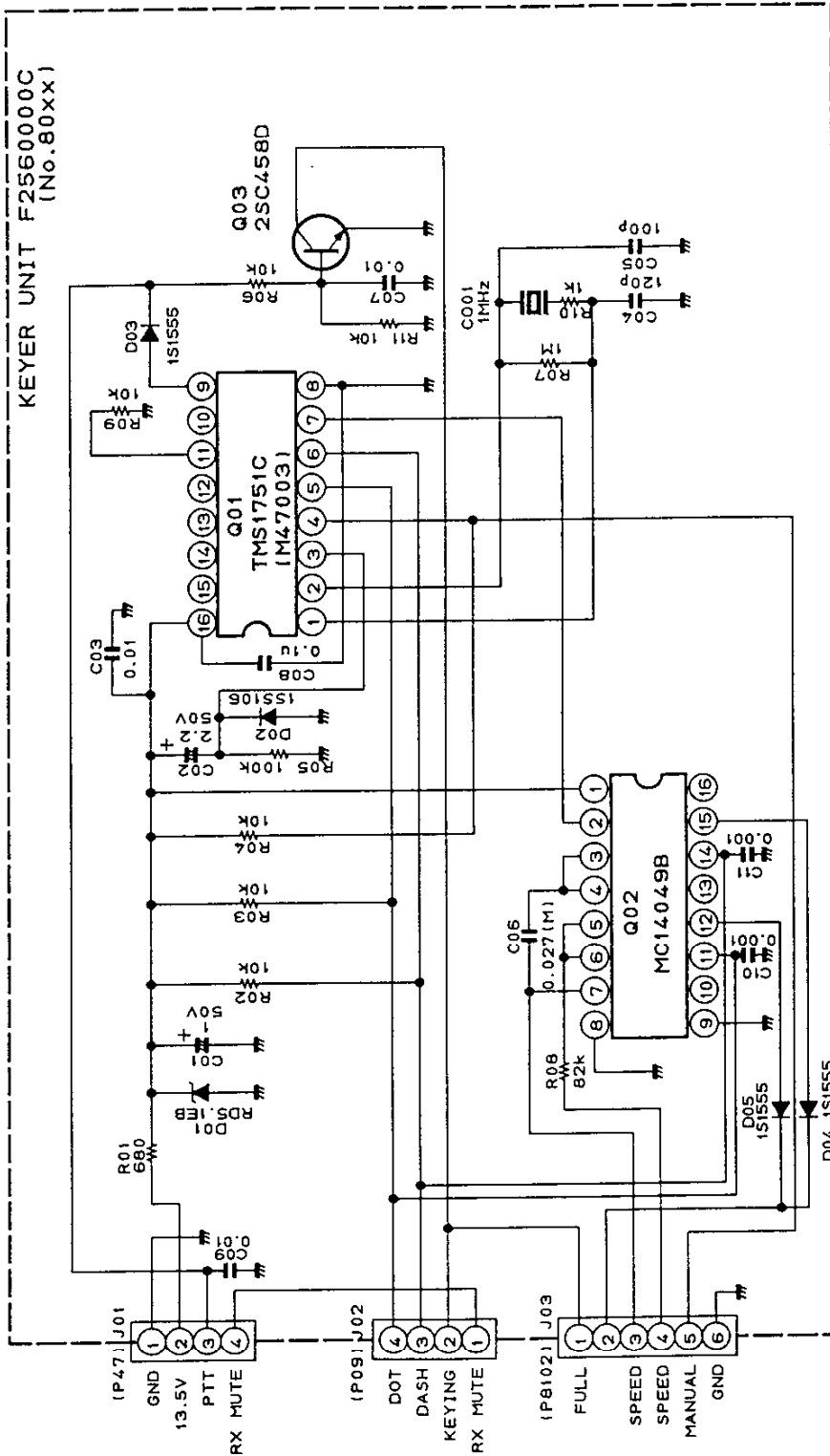
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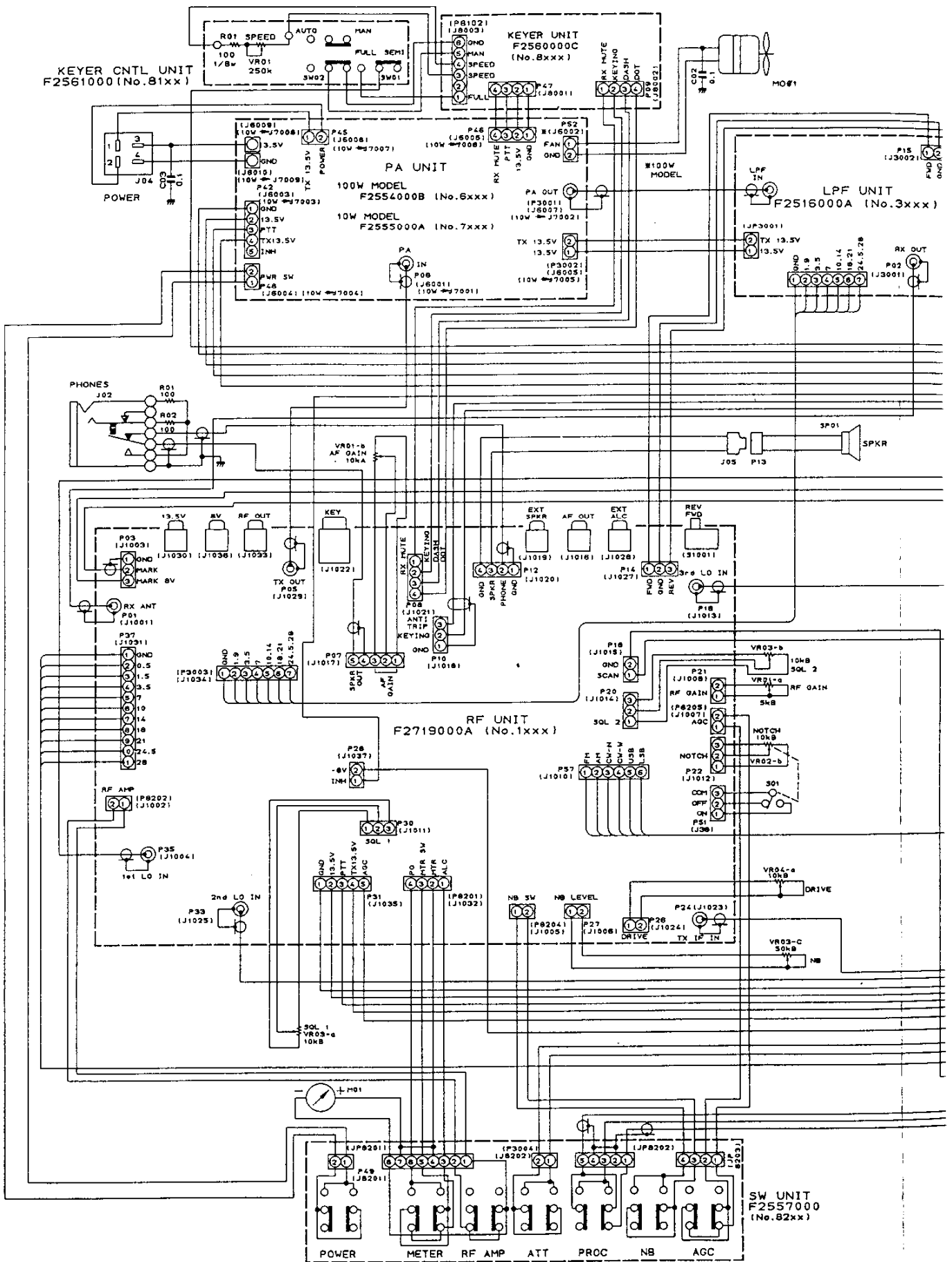
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DIAL UNIT F2559000 (No. 5xxx)

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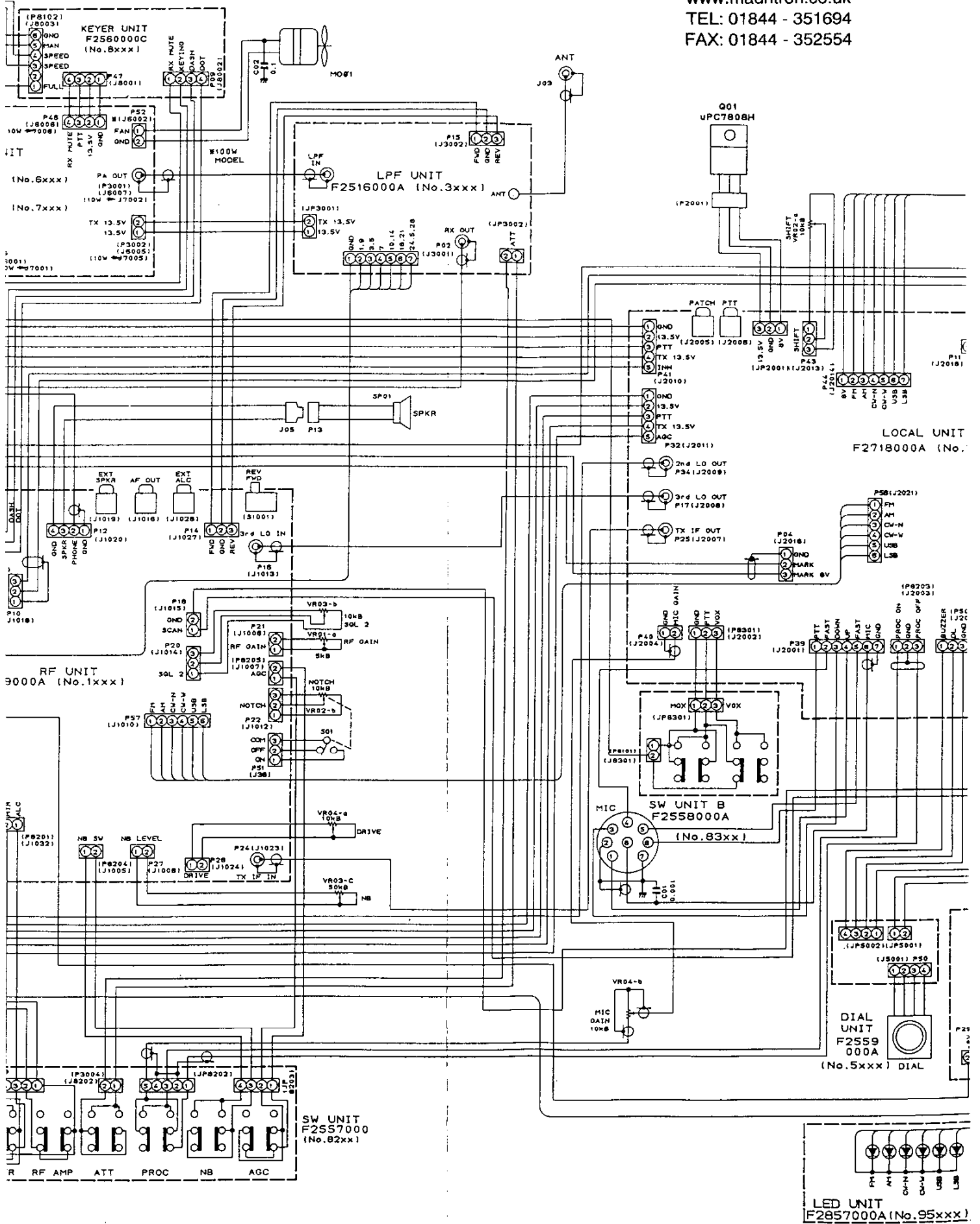


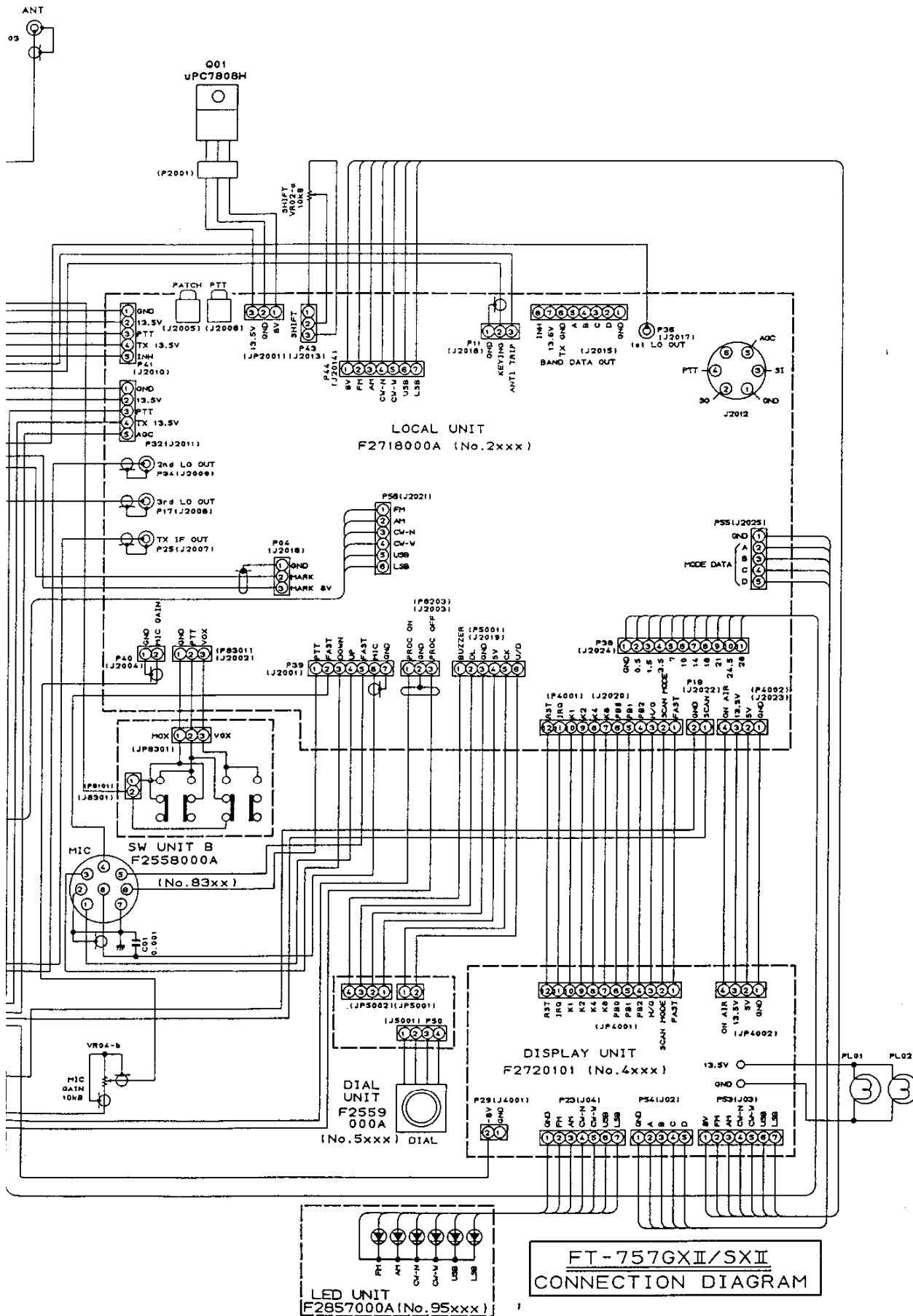
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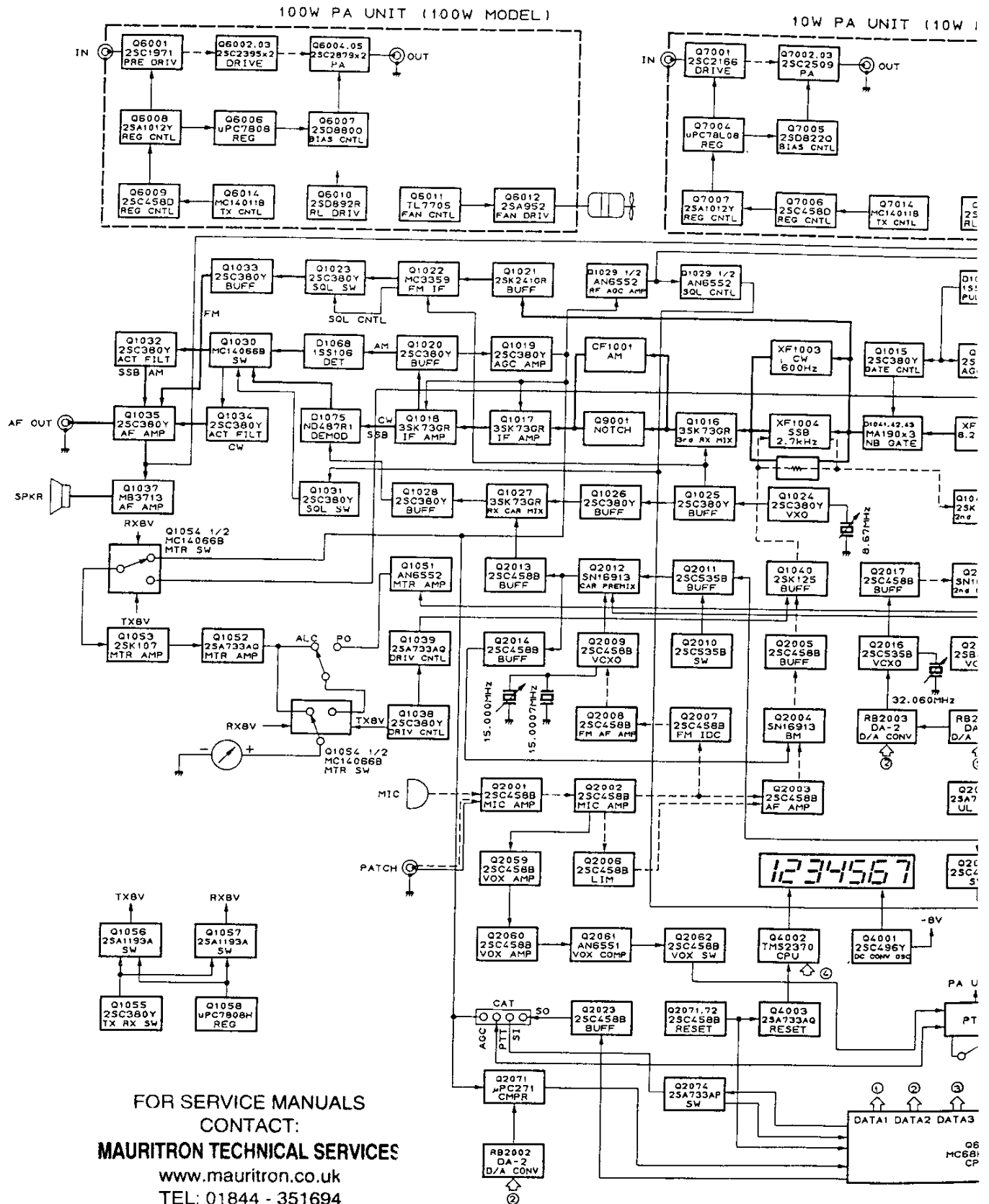
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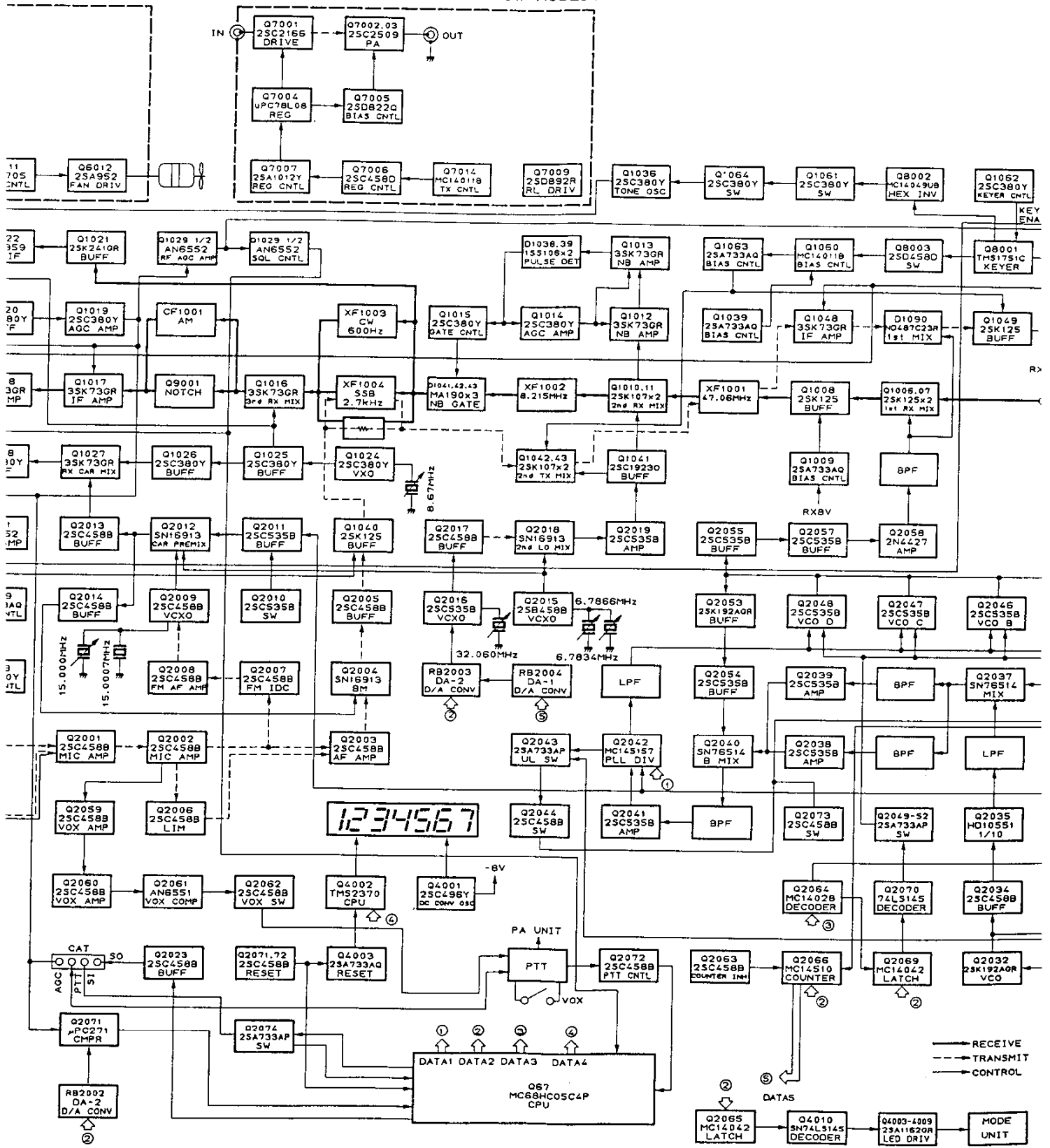


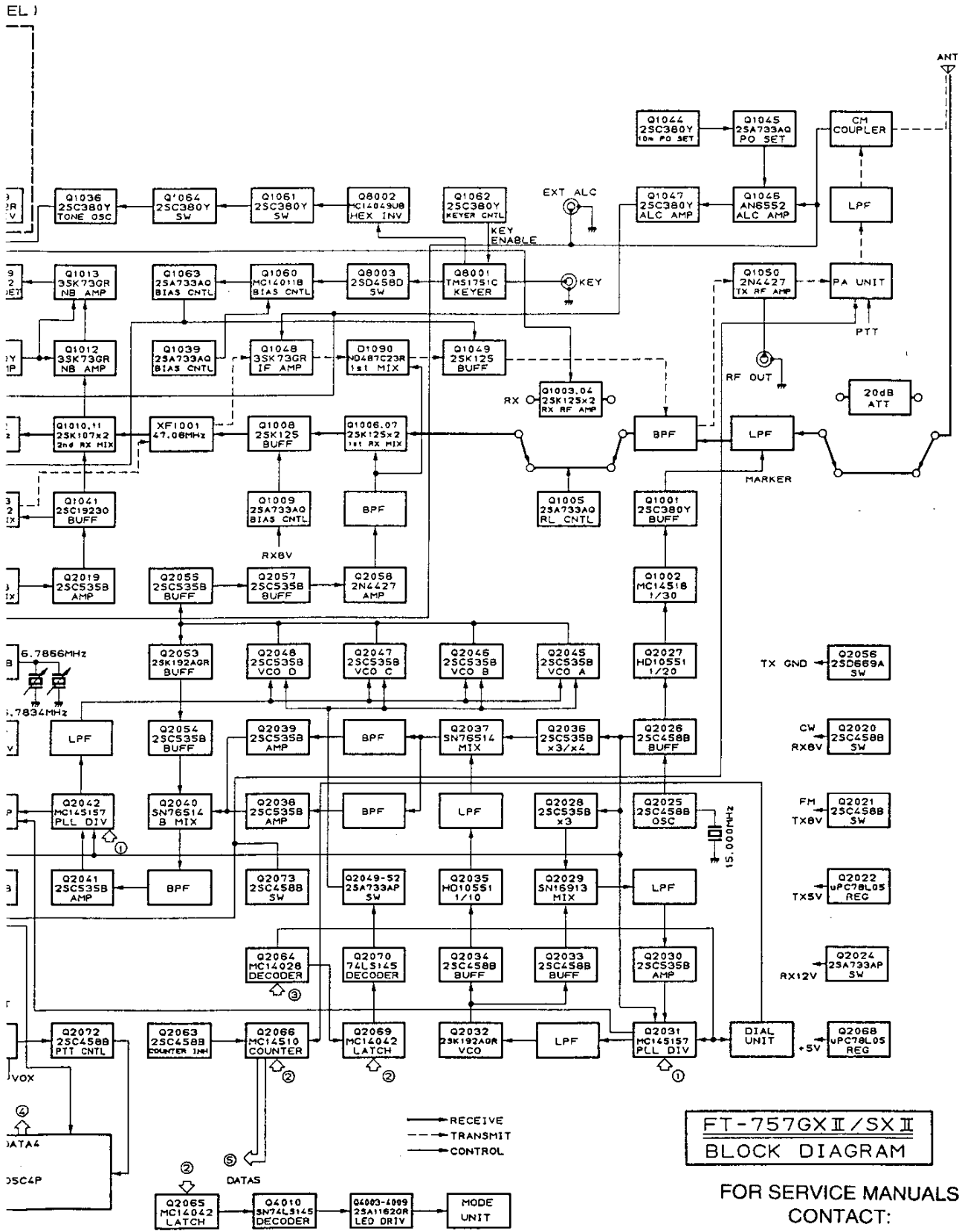


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100W MODEL)

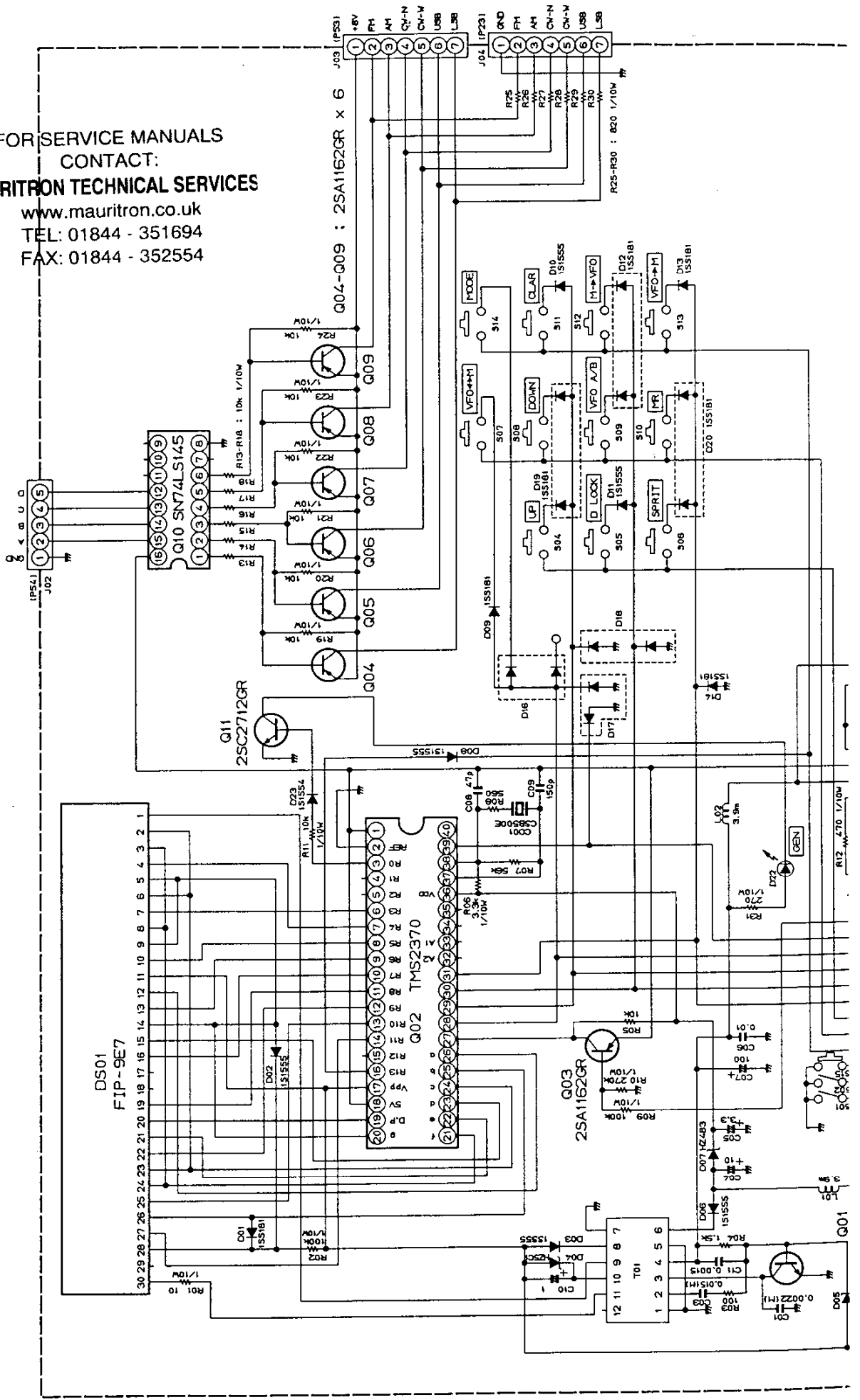
10W PA UNIT (10W MODEL)

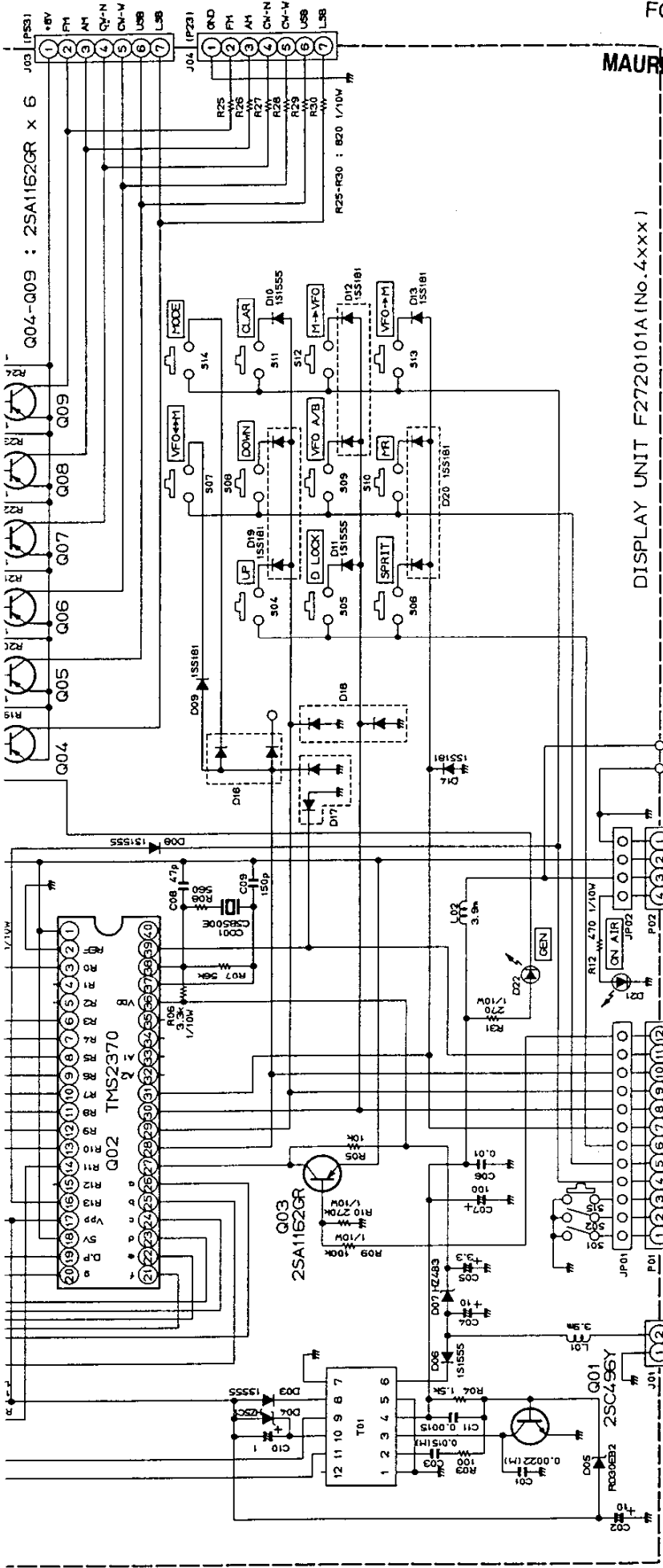




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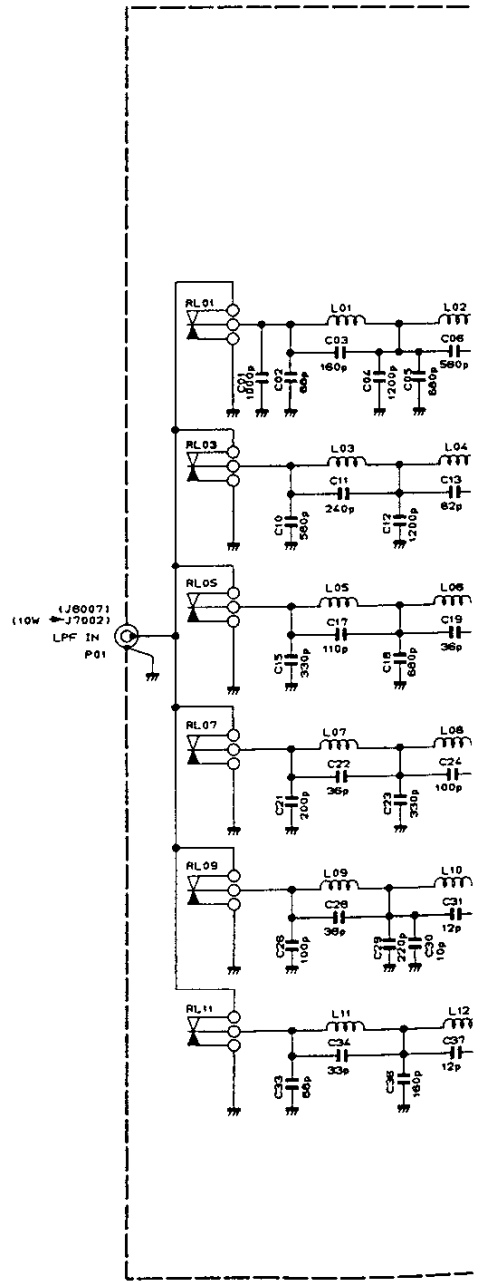
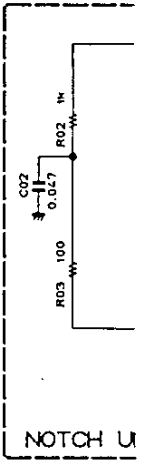




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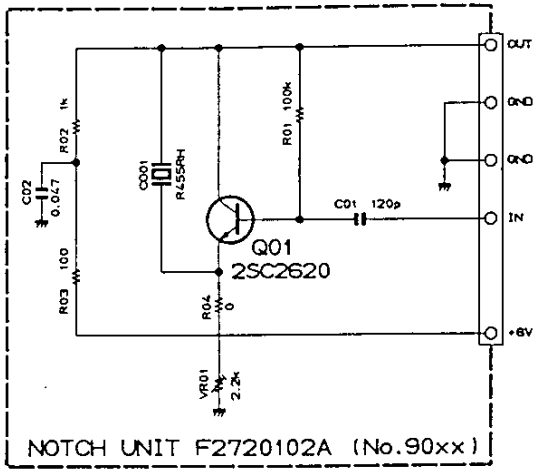
DISPLAY UNIT F2720101A (No. 4xxx)

RESISTOR VALUES ARE IN Ω, 1/4W ;
 CAPACITOR VALUES ARE IN μF, 50V ;
 INDUCTOR VALUES ARE IN H ; UNLESS OTHERWISE NOTED.
 (M1) CAPACITORS ARE POLYESTER FILM, 50V.

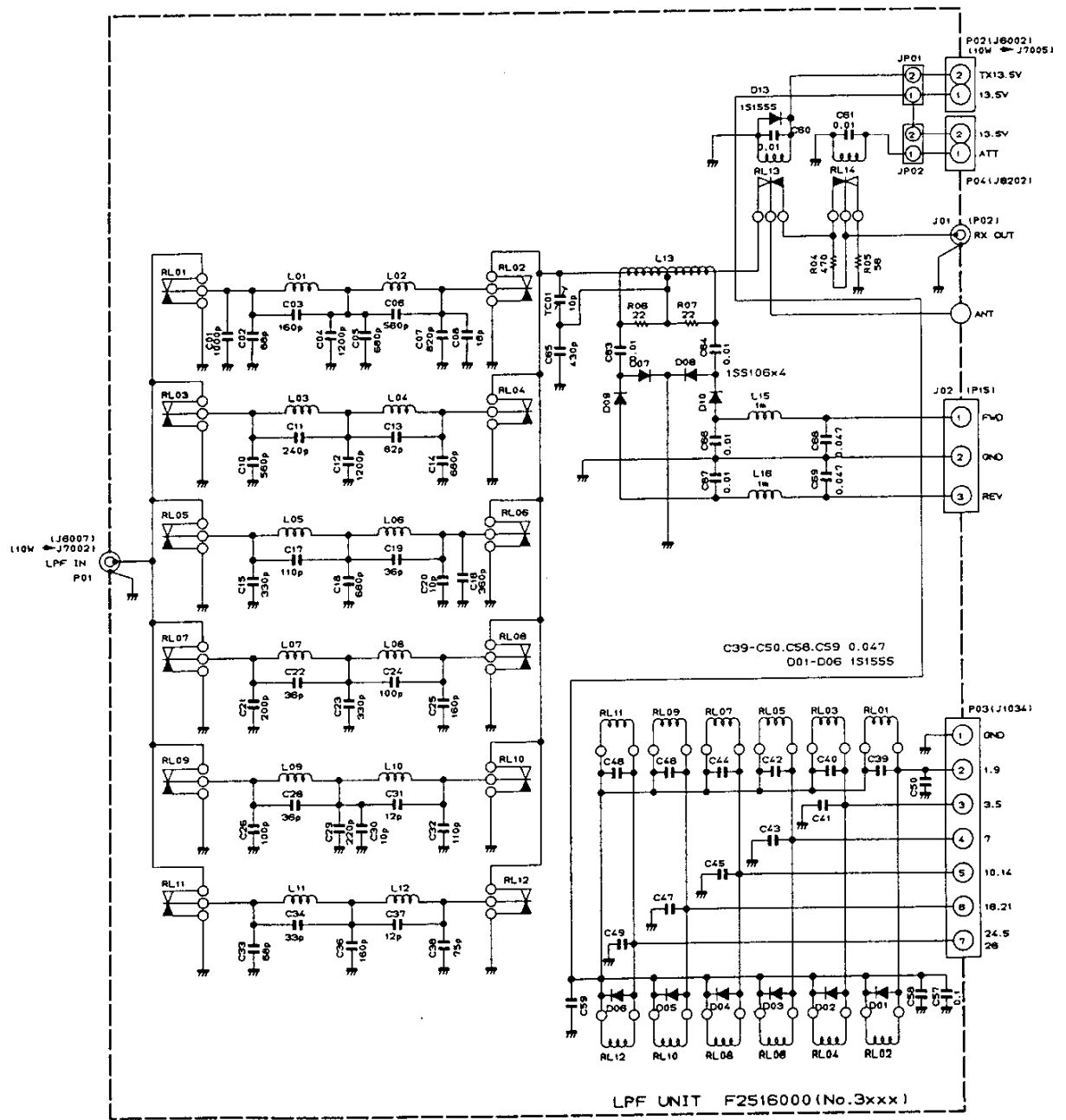


RESISTOR VALUES ARE IN Ω , 1/4W ;
 CAPACITOR VALUES ARE IN μ F, 50V ;
 INDUCTOR VALUES ARE IN H ; UNLESS OTHERWISE NOTED,
 (M) CAPACITORS ARE POLYESTER FILM, 50WV.

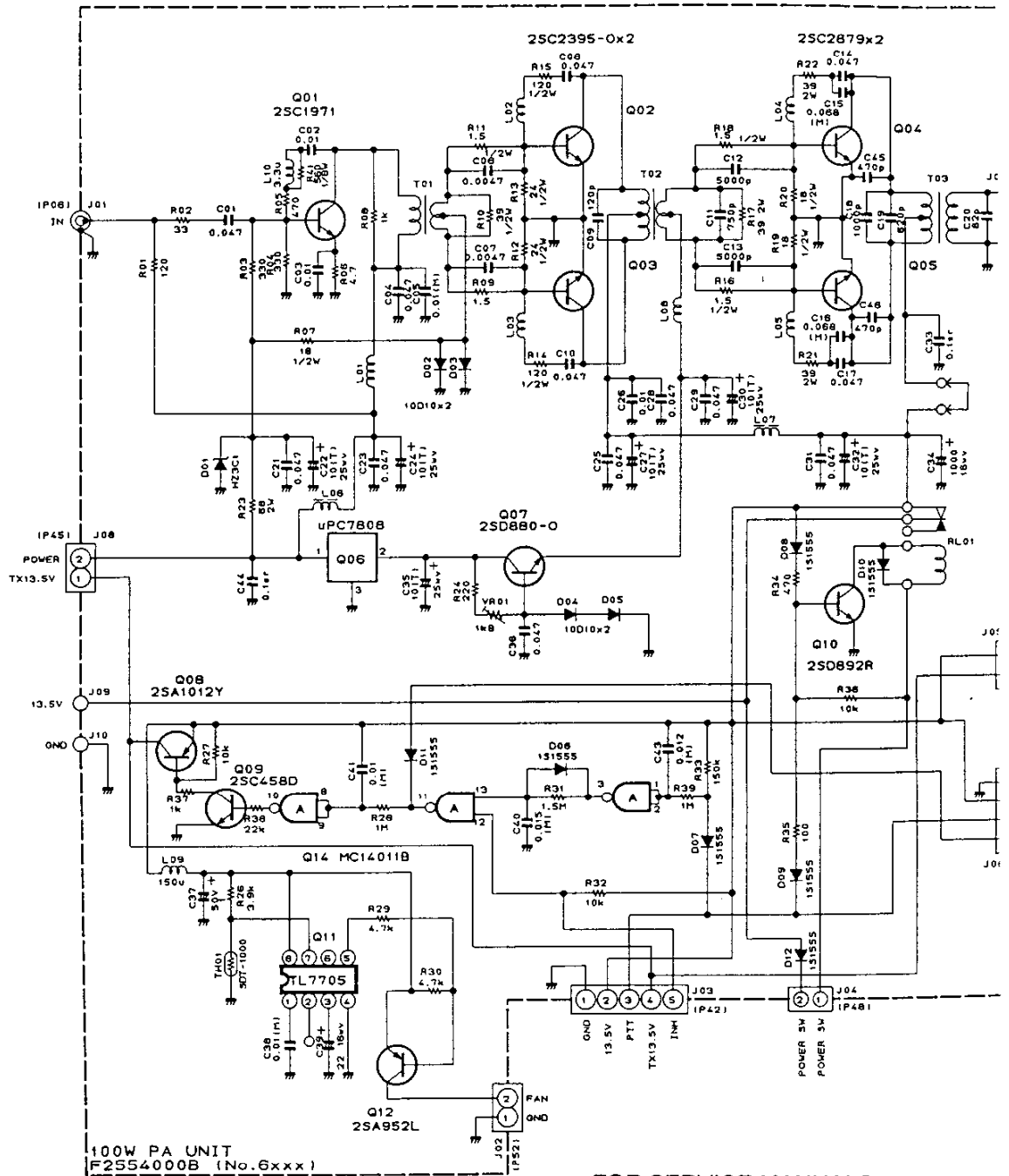
FAST
 SCAN MODE
 H/V
 PB2
 PB1
 PB0
 K4
 K3
 K2
 K1
 IR0
 RST
 13.5V
 5V
 GND
 TR0
 TR1



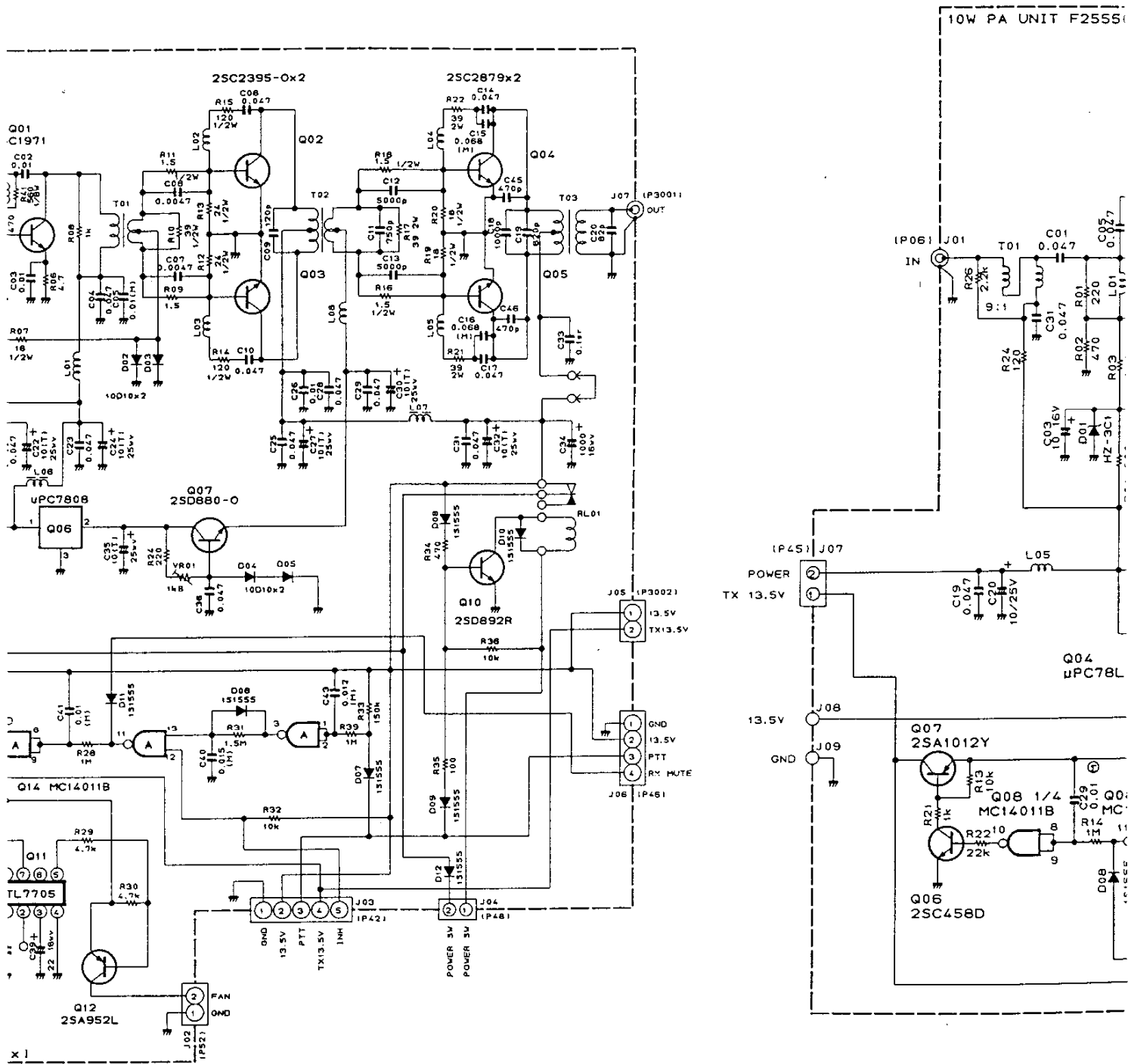
RESISTOR VALUES ARE IN Ω , 1/10W ;
 CAPACITOR VALUES ARE IN μ F, 50V ;
 UNLESS OTHERWISE NOTED.



LPF UNIT F2516000 (No.3xxx)



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211

TX 13.5V

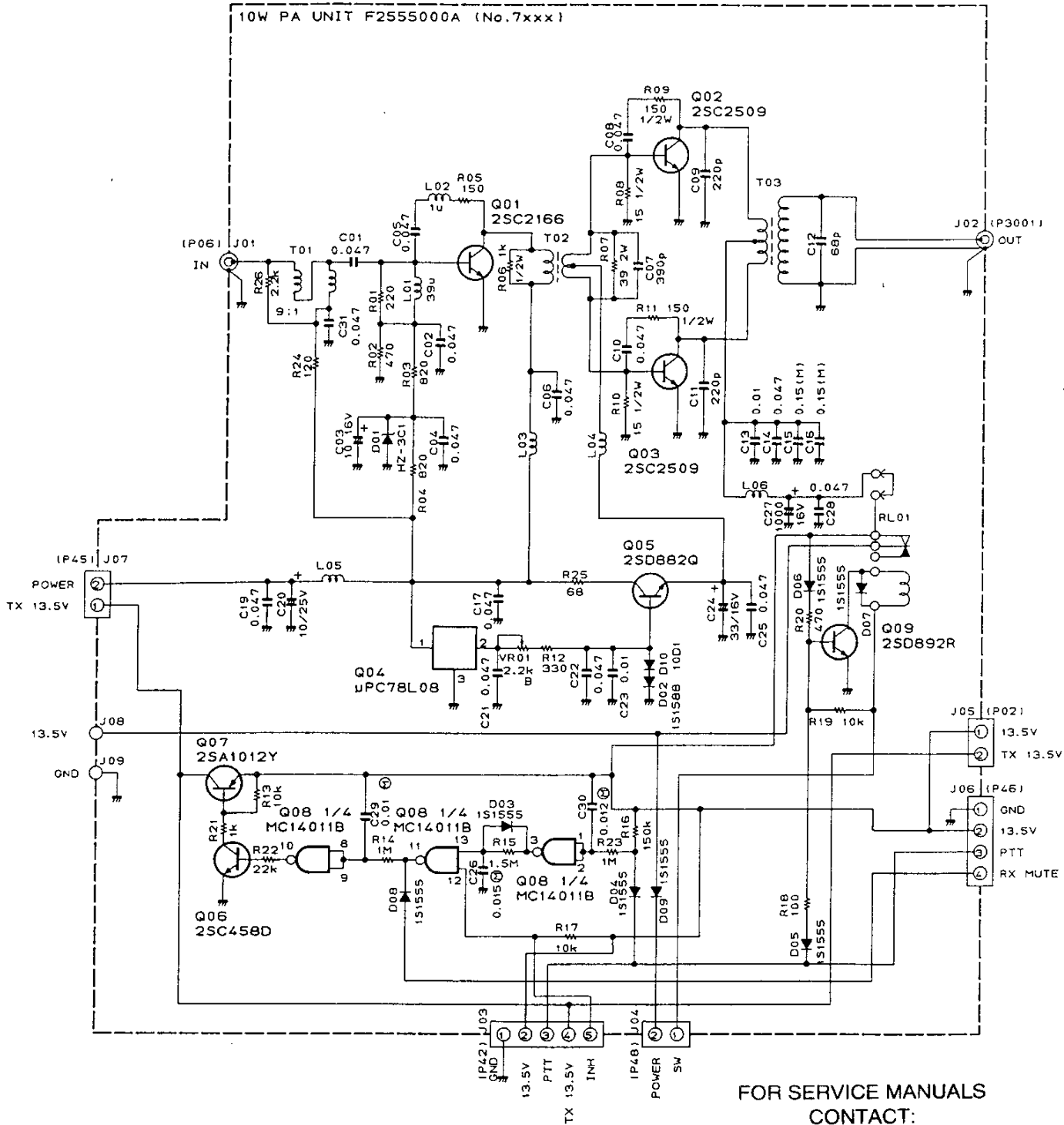
13.5V

GND

MUTE

4/4

10W PA UNIT F2555000A (No.7xxx)



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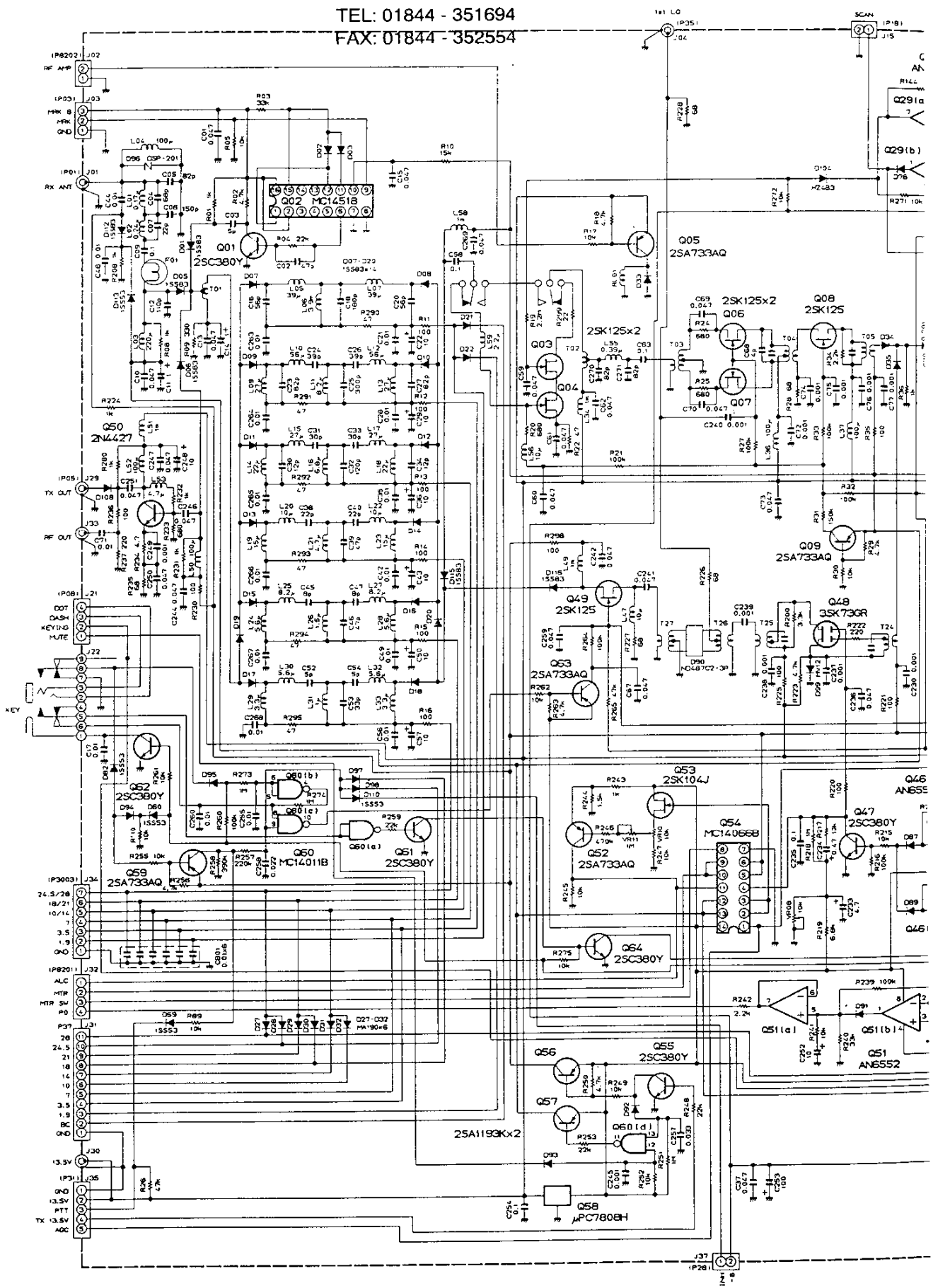


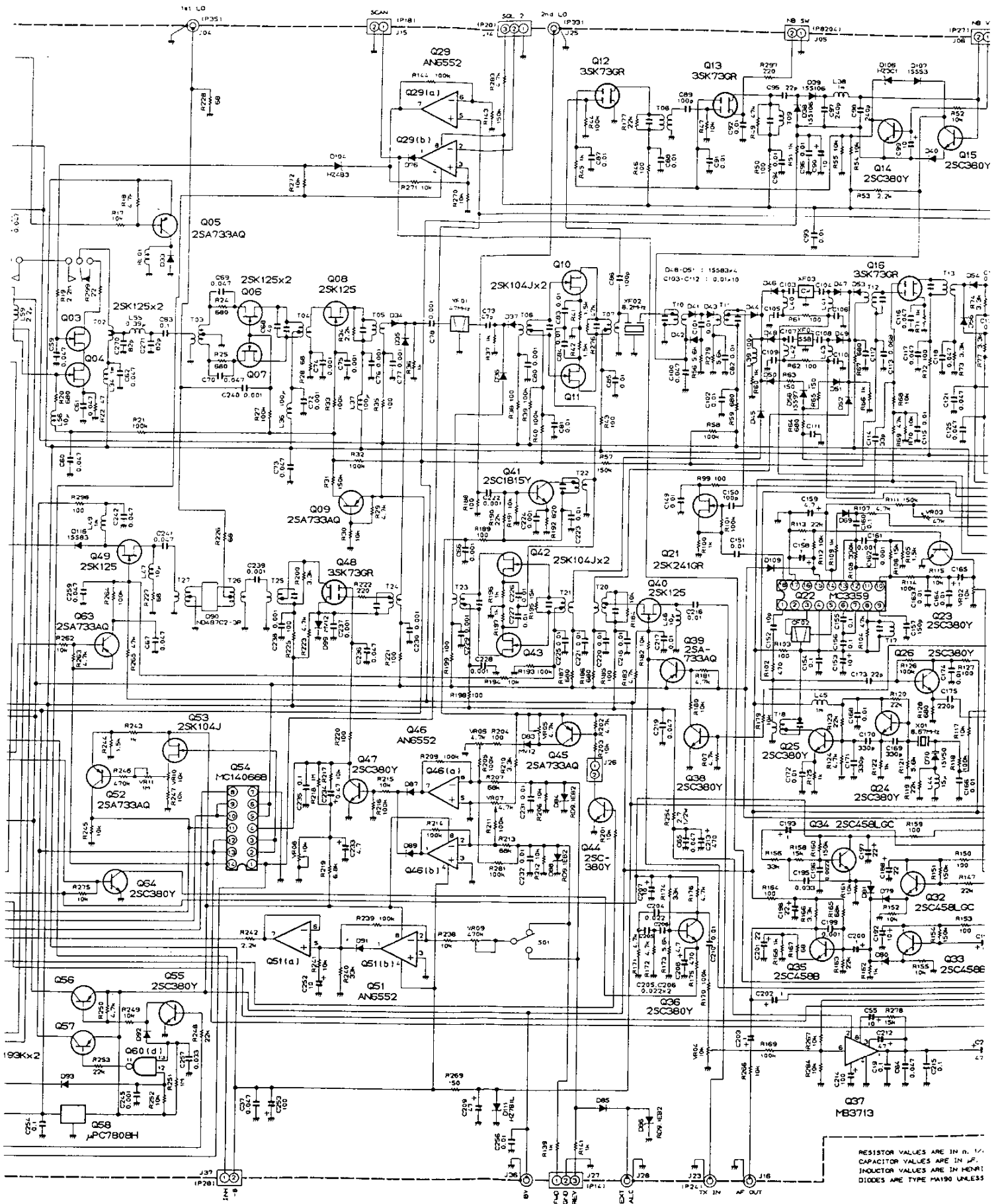
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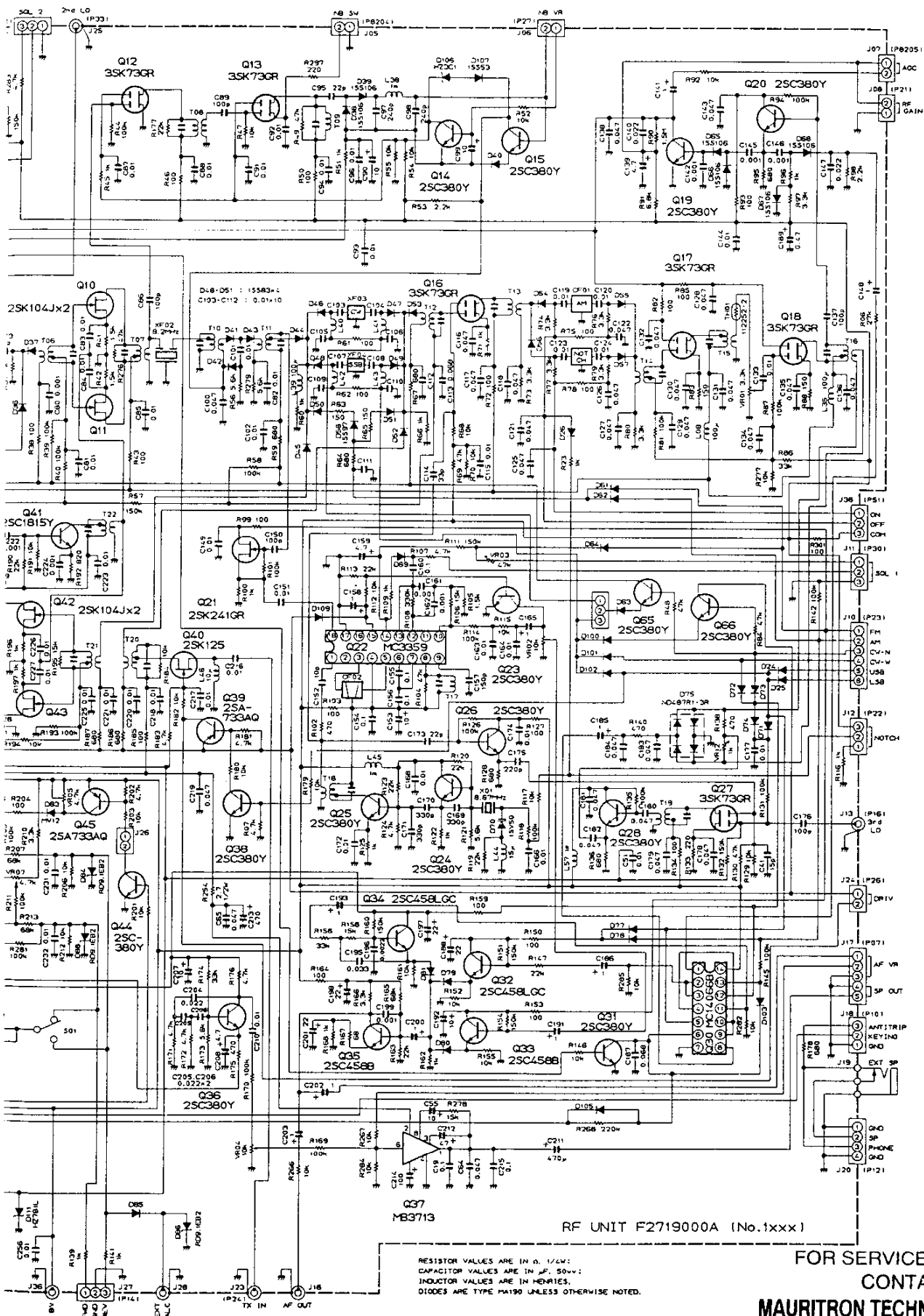
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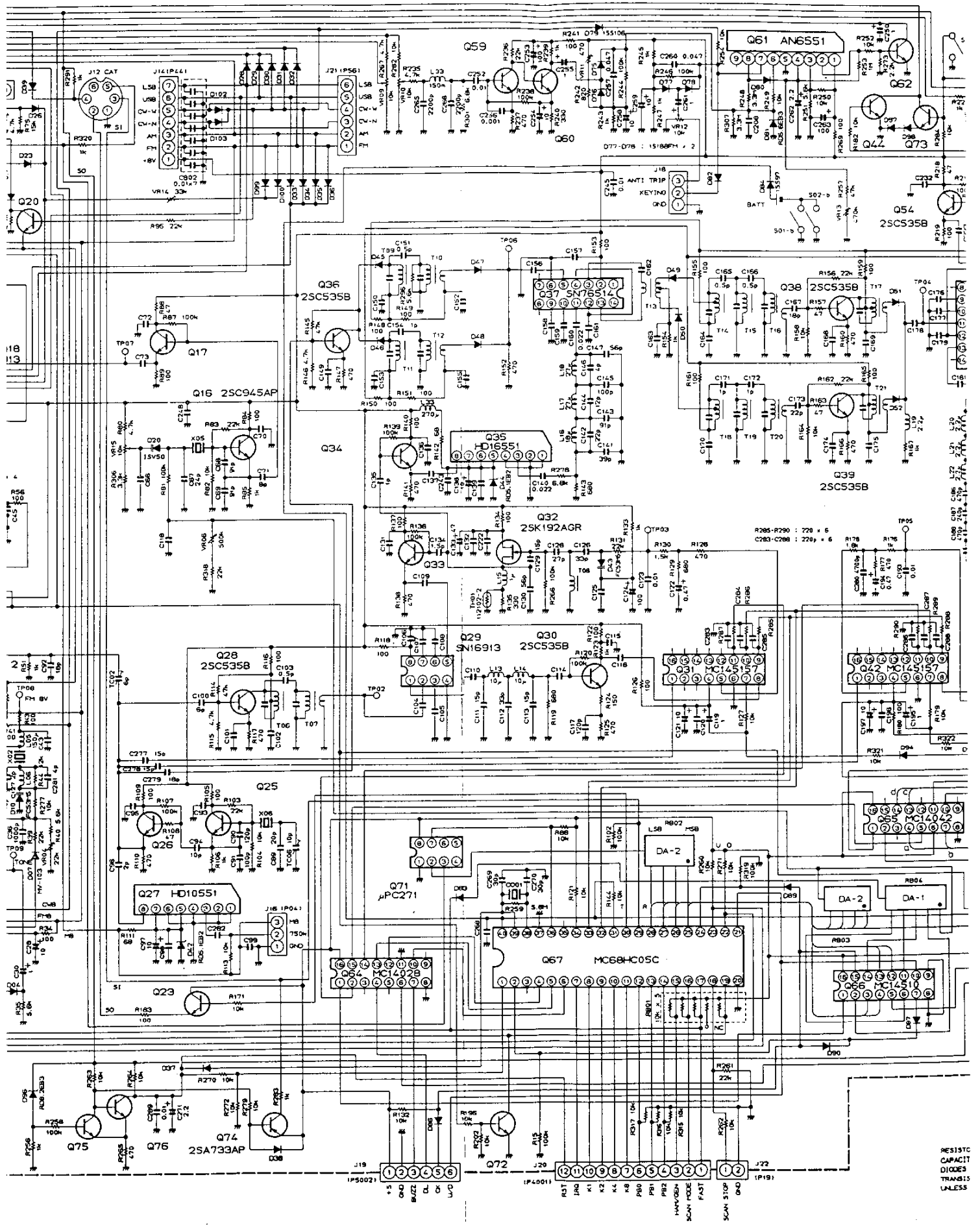
RESISTOR VALUES ARE IN Ω, K, M.
 CAPACITOR VALUES ARE IN pF, μF.
 INDUCTOR VALUES ARE IN HENRY.
 DIODES ARE TYPE 1N4190 UNLESS



RESISTOR VALUES ARE IN Ω, 1/4W;
 CAPACITOR VALUES ARE IN μF, 50V;
 INDUCTOR VALUES ARE IN HENRIES.
 DIODES ARE TYPE M190 UNLESS OTHERWISE NOTED.

RF UNIT F2719000A (No.1xxx)

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RESISTOR
CAPACITOR
DIODE
TRANSISTOR
UNLESS
NOTED

