

FT-757GX II

FOR SERVICE MANUALS
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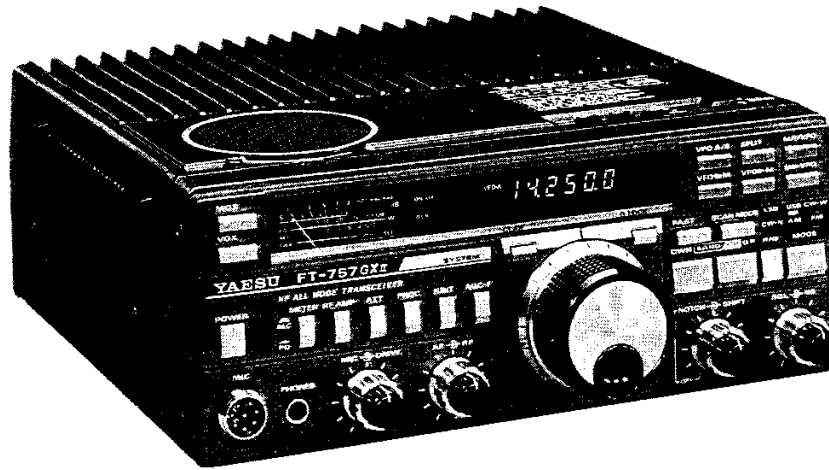
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FT-757GXII TECHNICAL SUPPLEMENT

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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 most 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

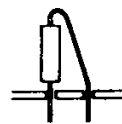
All of the below are acceptable ways of inserting components into circuit board mounting holes.



(a) Bend leads slightly



(b) Straight-in mounting



(c) Vertical mounting

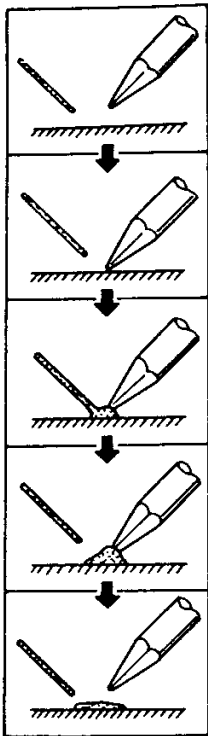


(d) Preformed disc ceramic capacitor



(e) Preformed resistor, diode, etc.

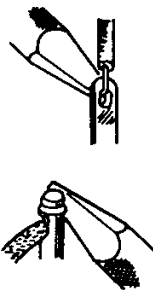
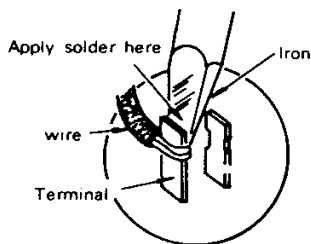
BASIC SOLDERING PRACTICE



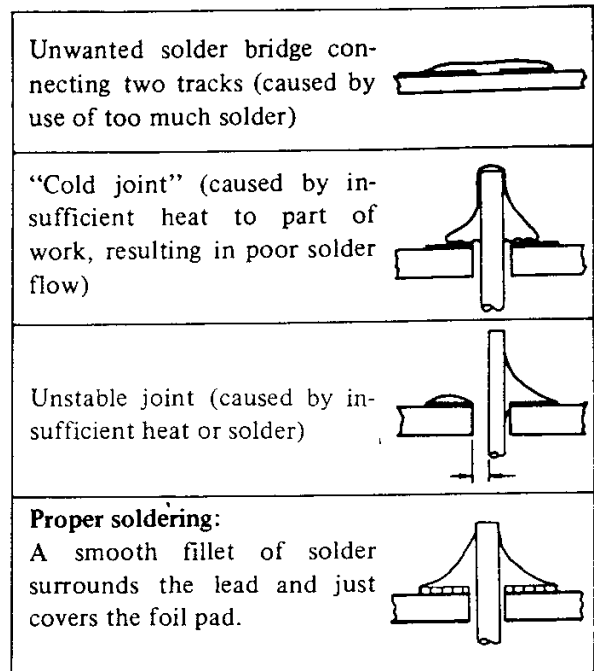
- (1) Prepare soldering iron and solder. The tip of the iron should be thoroughly tinned and wiped clean of excess solder.
- (2) Apply soldering iron to surface to be soldered. Do not press the iron into the surface.
- (3) Apply solder to junction of iron and heated surface.
- (4) When enough solder 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:

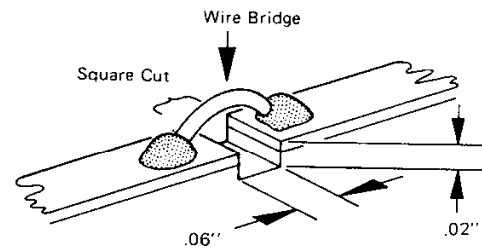
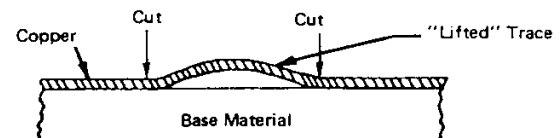
(Be certain to apply heat to both post and wire.)



EXAMPLES OF POOR SOLDERING PRACTICE

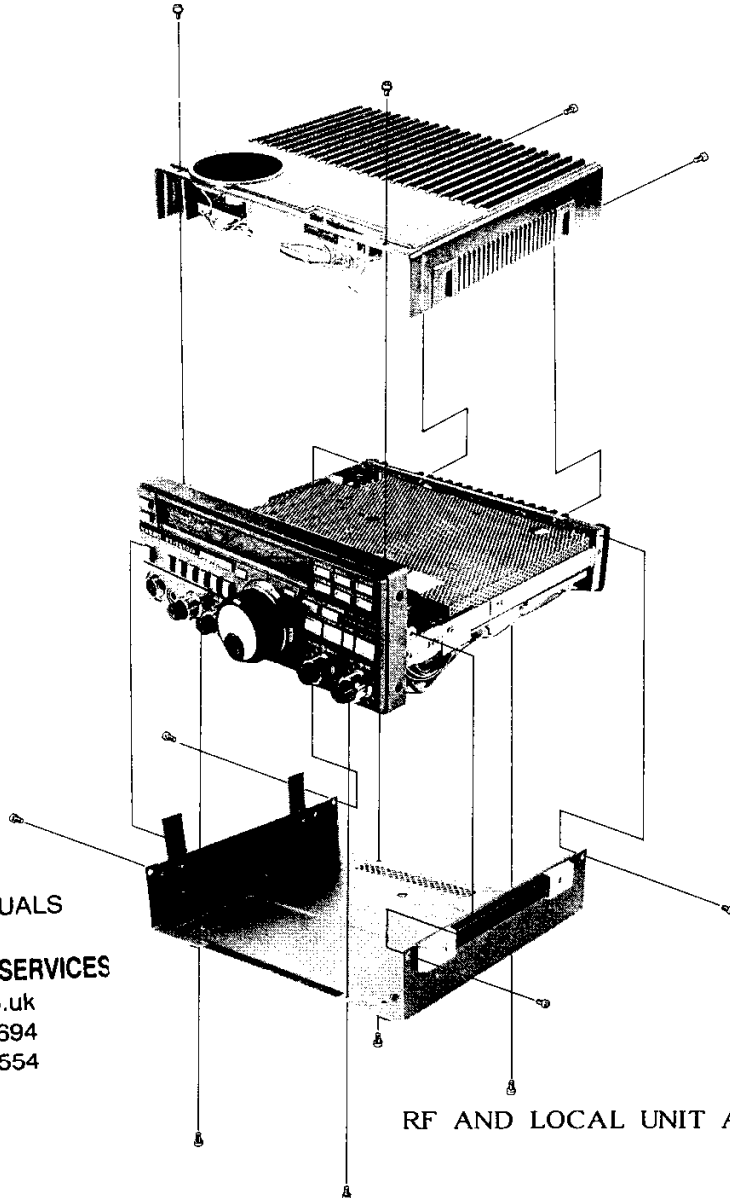


If you have previously lifted a trace, make an etch cut on each side of the lifted trace as shown in the drawing, and install a wire bridge.



Coat Cut Area With Eastman 910
After Soldering Wire Bridge

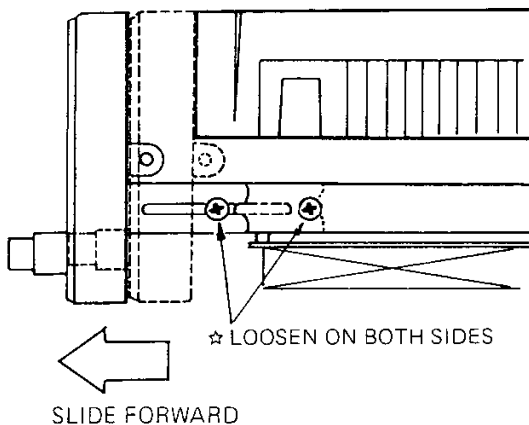
OUTER COVER REMOVAL



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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 V_{rms}

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

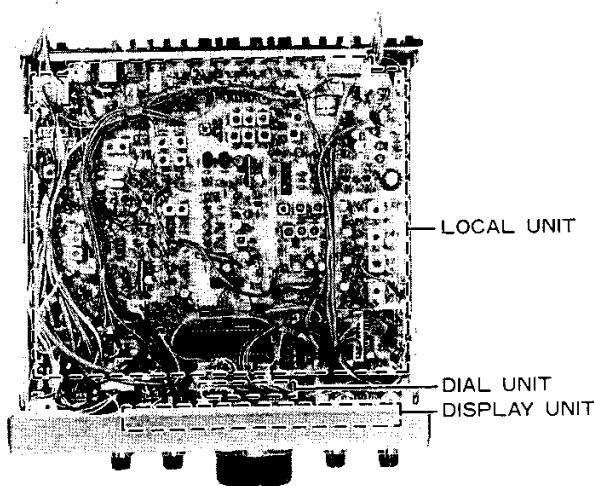
RF signal generator covering 1-30 MHz, with calibrated output levels from 5 dB μ to 100 dB μ

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

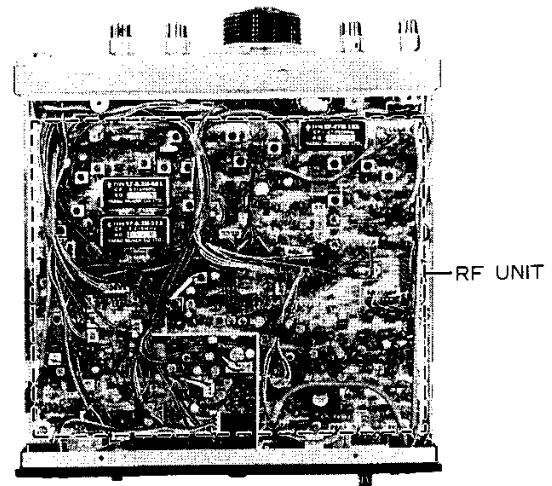
FM deviation meter/SINADer and RF sampling coupler ("T") for FM modulator alignment

Monitor scope for transmitter output display

Linear detector for 1-30 MHz

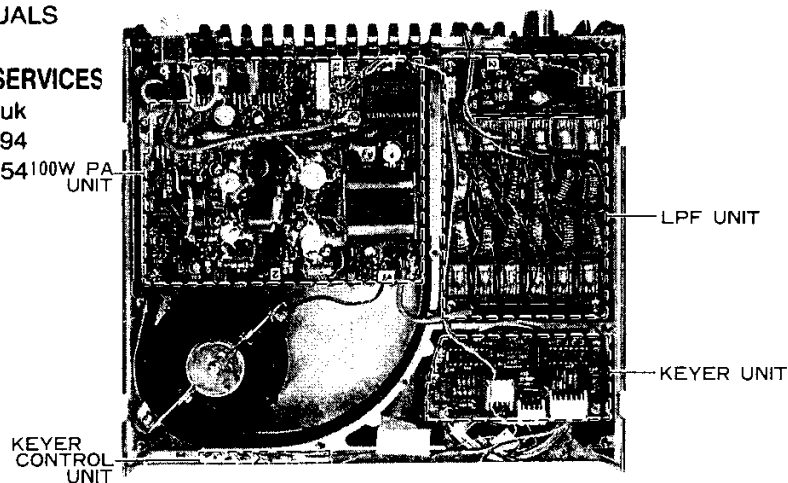


Chassis Top View



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 T2100 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.)

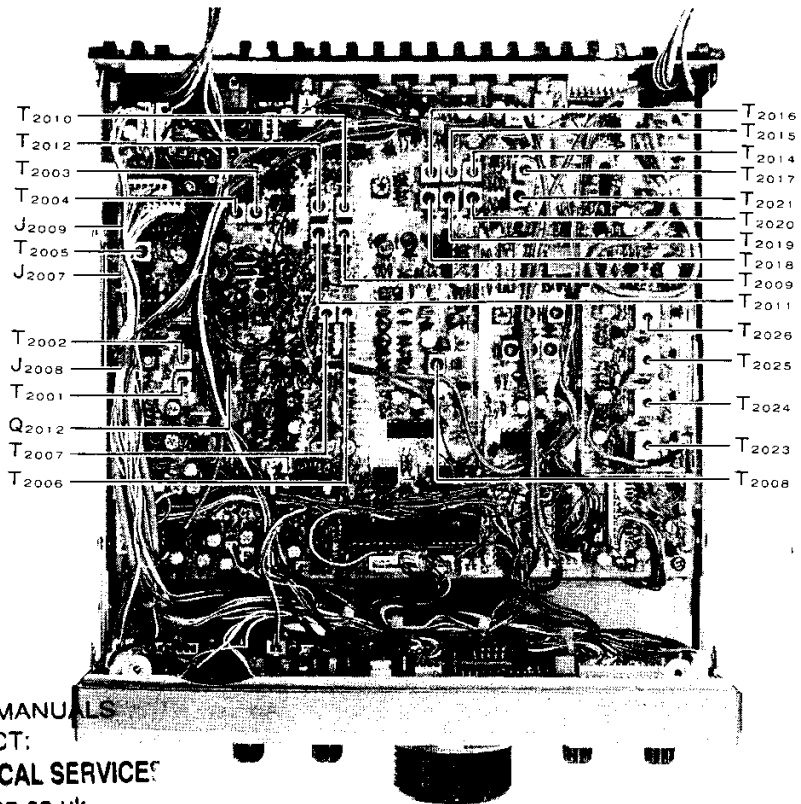
Connect the counter to J2008 and adjust the point indicated in the corresponding mode for the frequency shown below:

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.

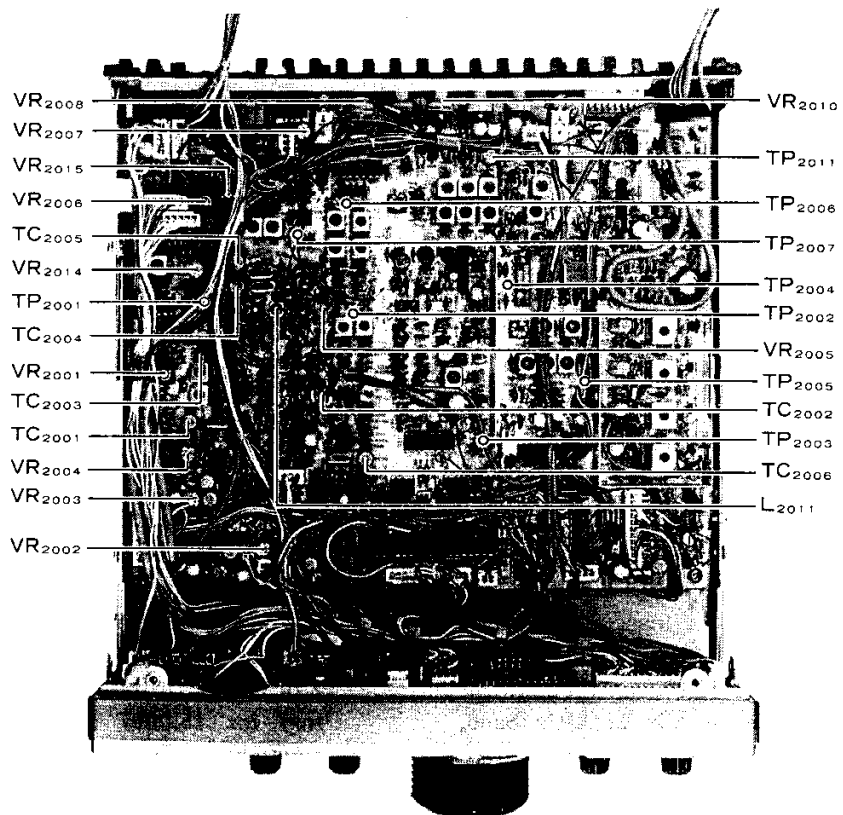




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Chassis Top View :
LOCAL Unit Adjustment Locations



- 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.)

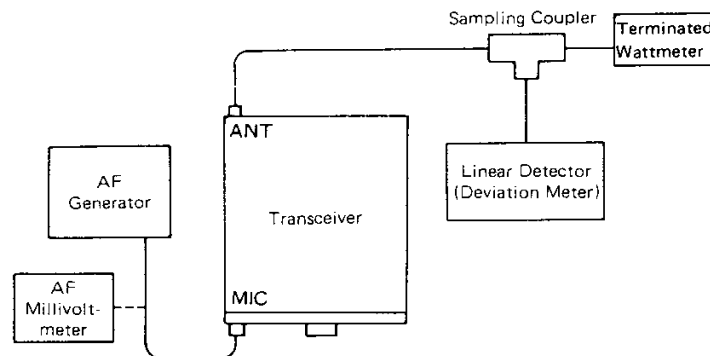
1. With the AF generator connected as in the previous step, set the transceiver to the 14 MHz band, LSB mode. Close the PTT line and adjust the MIC gain control for 80 watts output to the dummy load/wattmeter.

(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

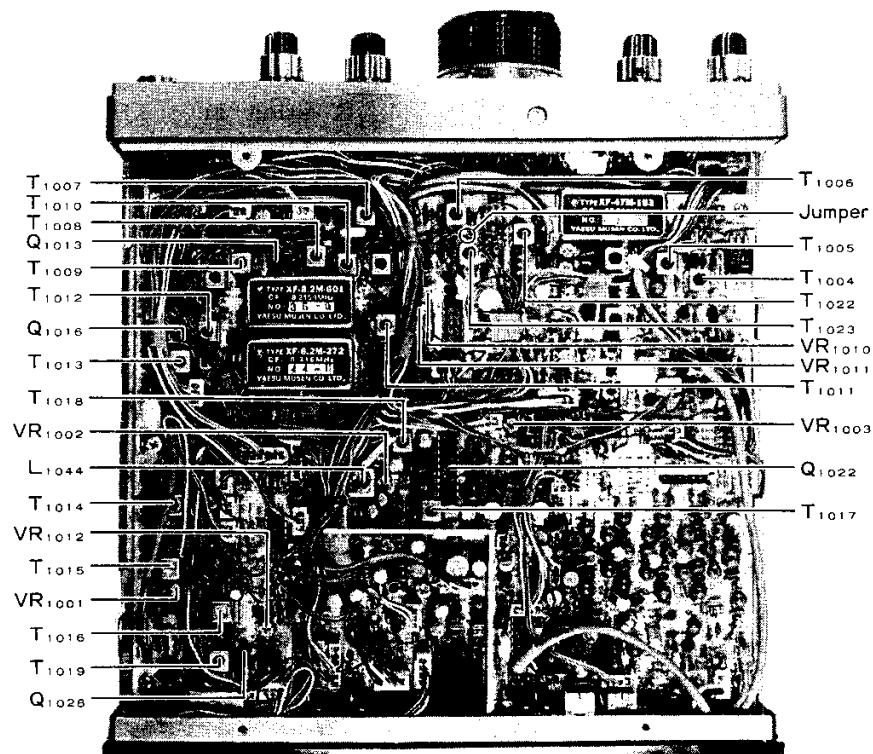
Connect the RF voltmeter to the jumper between T1006 and T1023 on the component side of the board, and adjust T1022 for maximum RF voltage (250 to 500 mVrms).

C. 8.67 MHz Oscillator

1. Connect the frequency counter through a 0.01 μ F 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

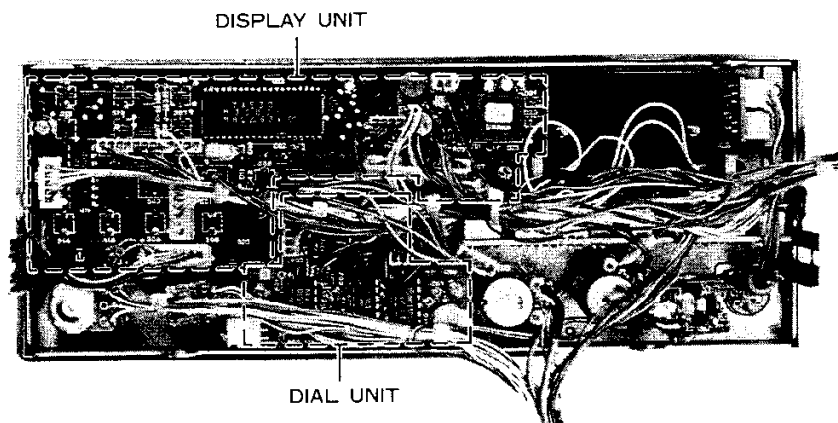
Inject 50dB RF at 14,000 MHz modulated with ± 3.5 kHz deviation of a 1 kHz tone to the antenna jack. Set the transceiver to the FM mode and tune to the injected signal. With the AF voltmeter connected to the EXT SP jack, confirm that the SQL control is fully counter-clockwise, and adjust T1017 for maximum 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

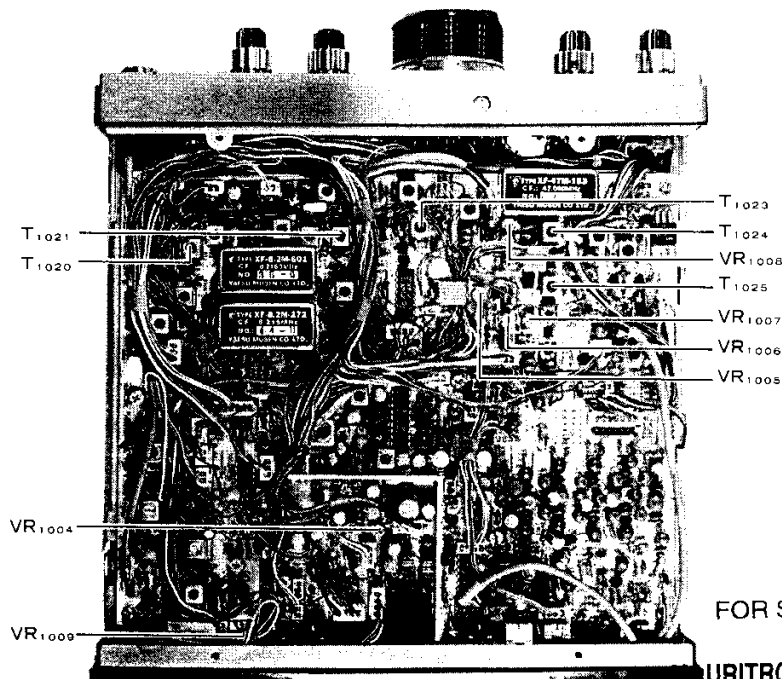
At 29 MHz, CW mode, set the DRIVE control fully clockwise and the set VR1005 fully clockwise (or for 10W output with the SXII model).

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.

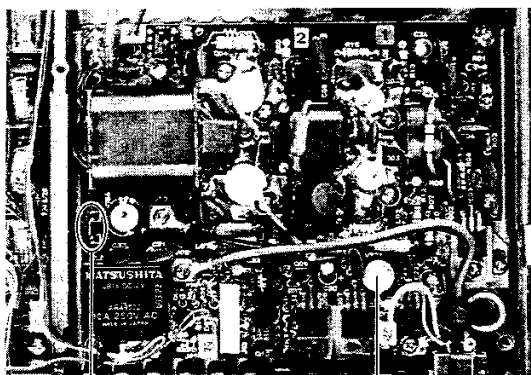
IV. LPF Unit: Directional Coupler Balance

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.

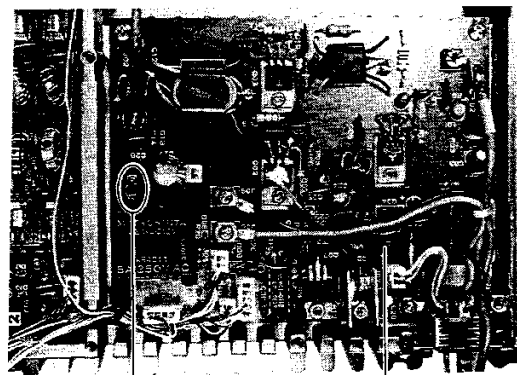
V. PA Unit: Idling Current

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).



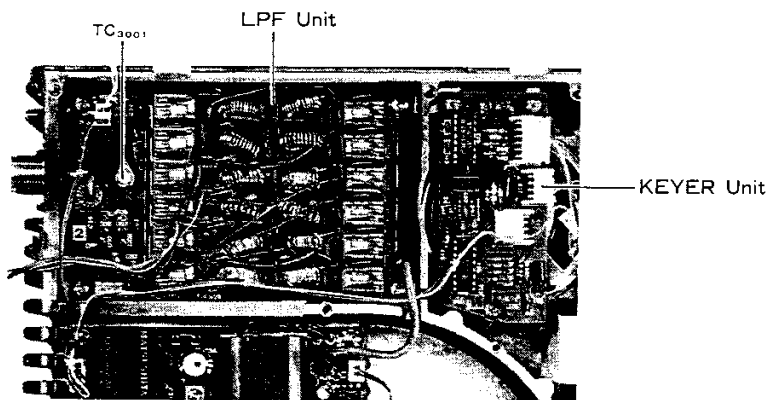
Jumper VR6001

PA Unit: GXII model



Jumper VR7001

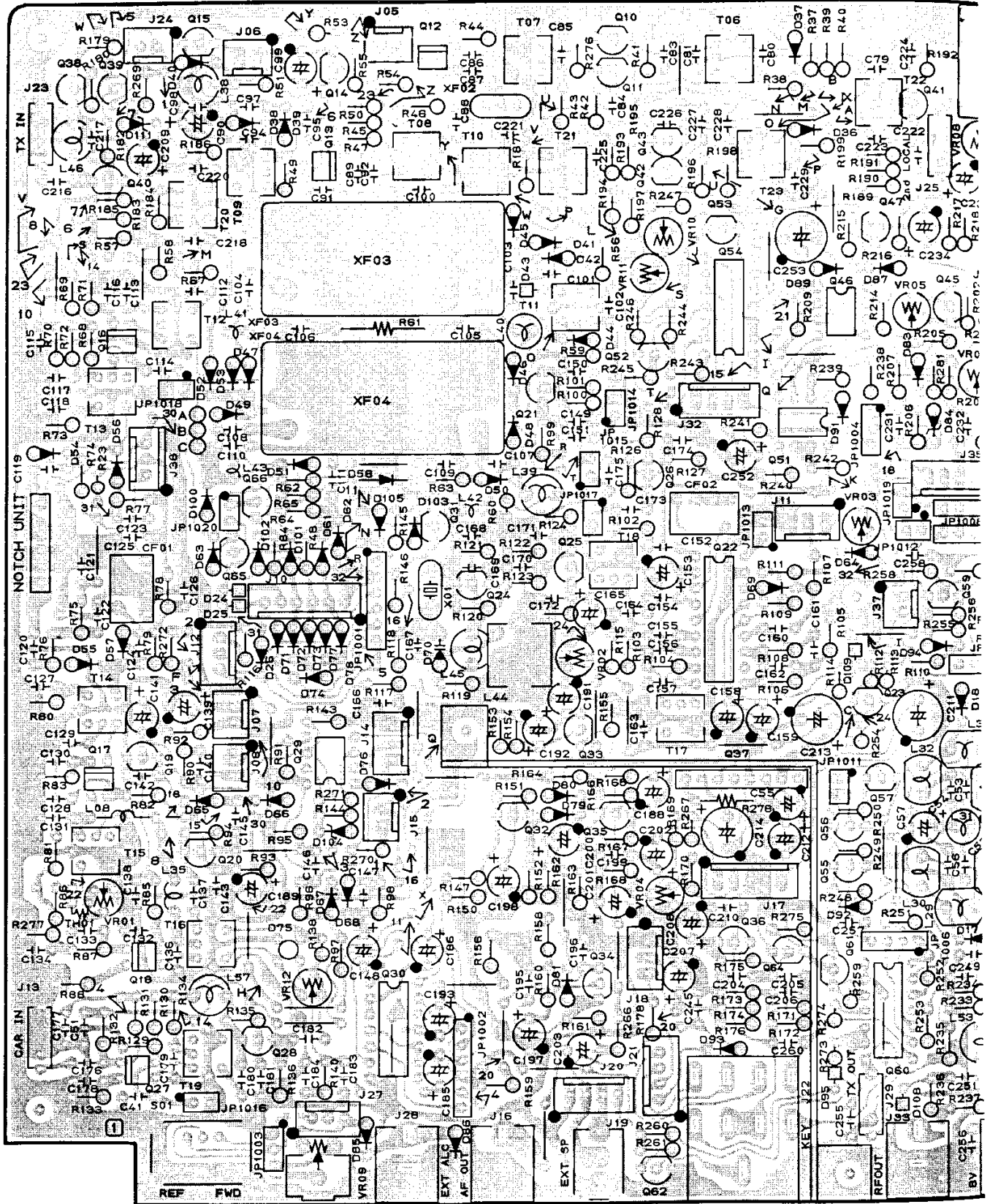
PA Unit: SXII model



LPF Unit

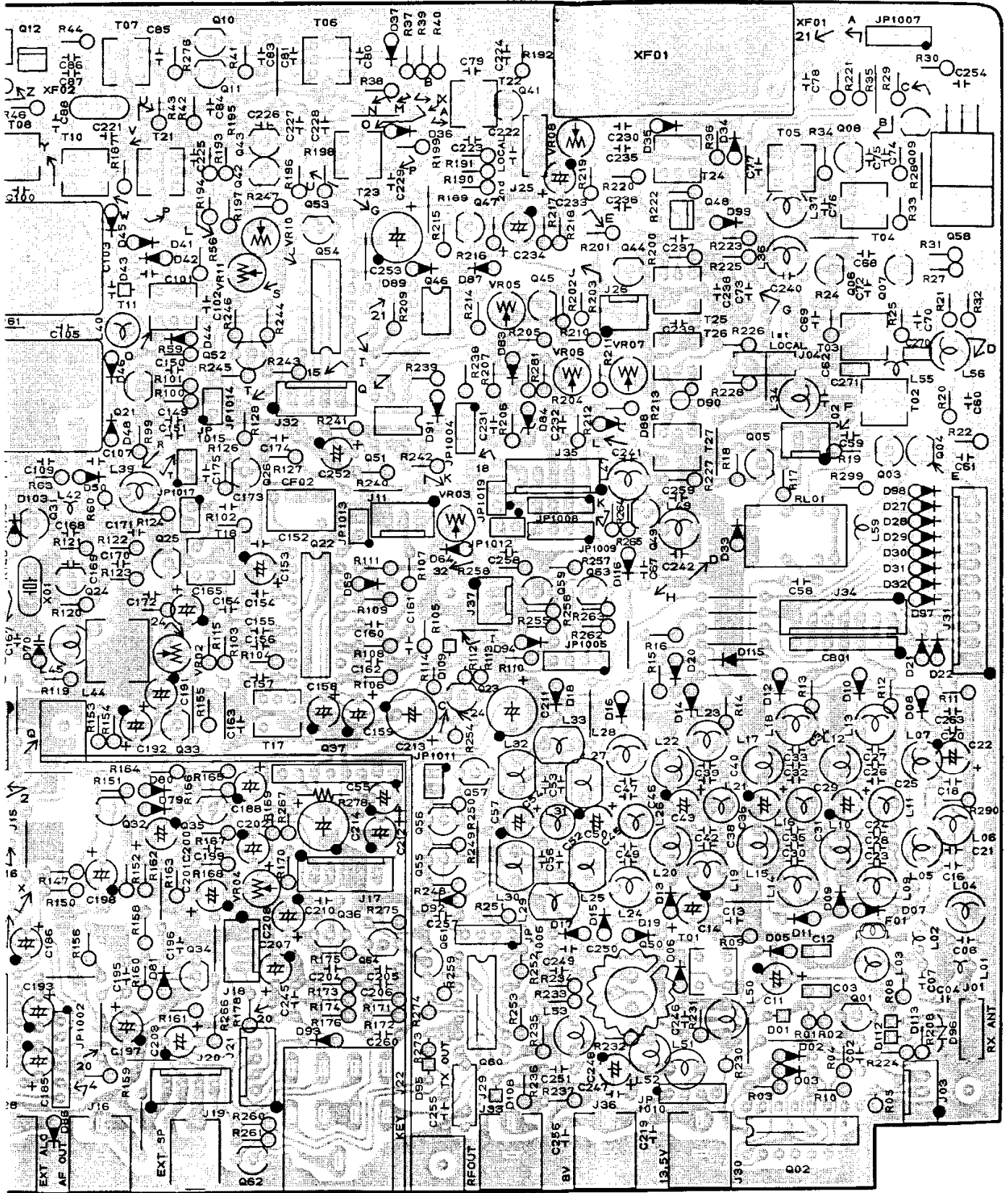
RF UNIT PARTS LAYOUT

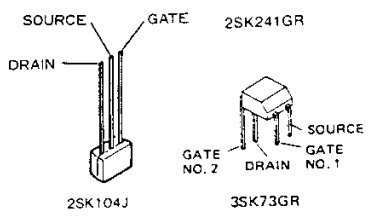
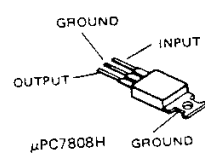
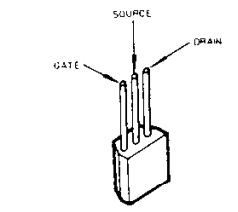
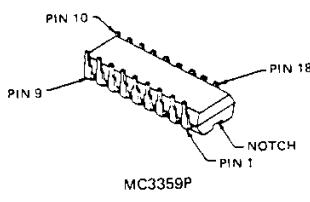
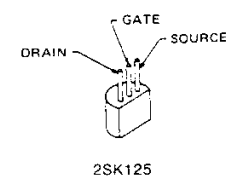
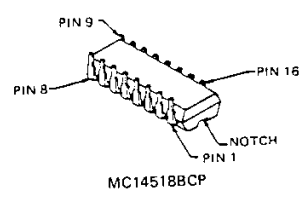
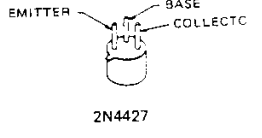
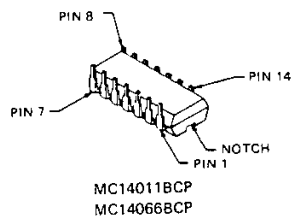
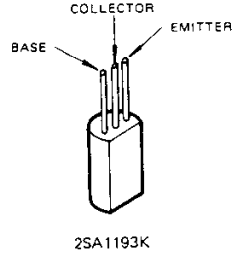
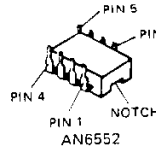
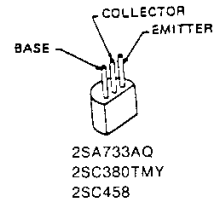
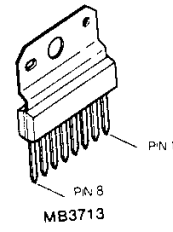
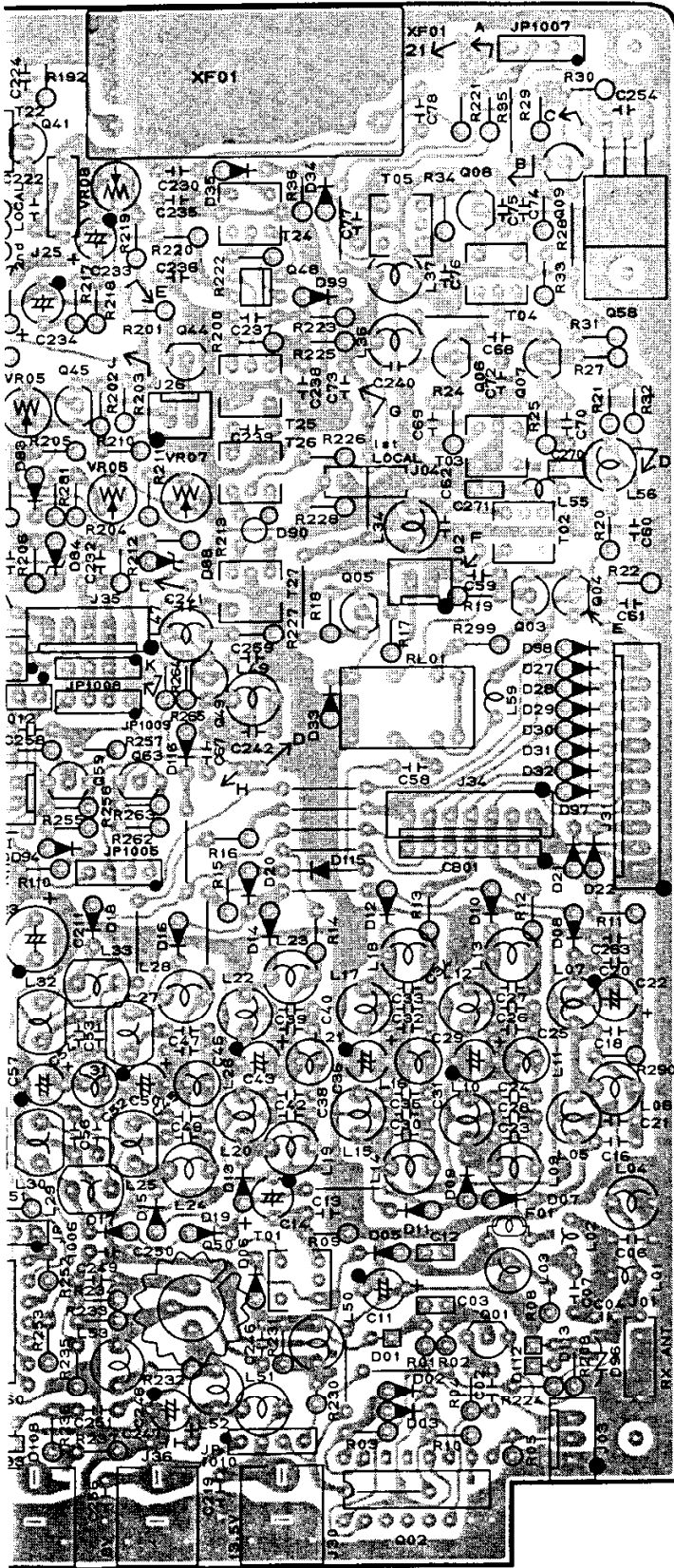
Component Side



RF UNIT PARTS LAYOUT

Component Side



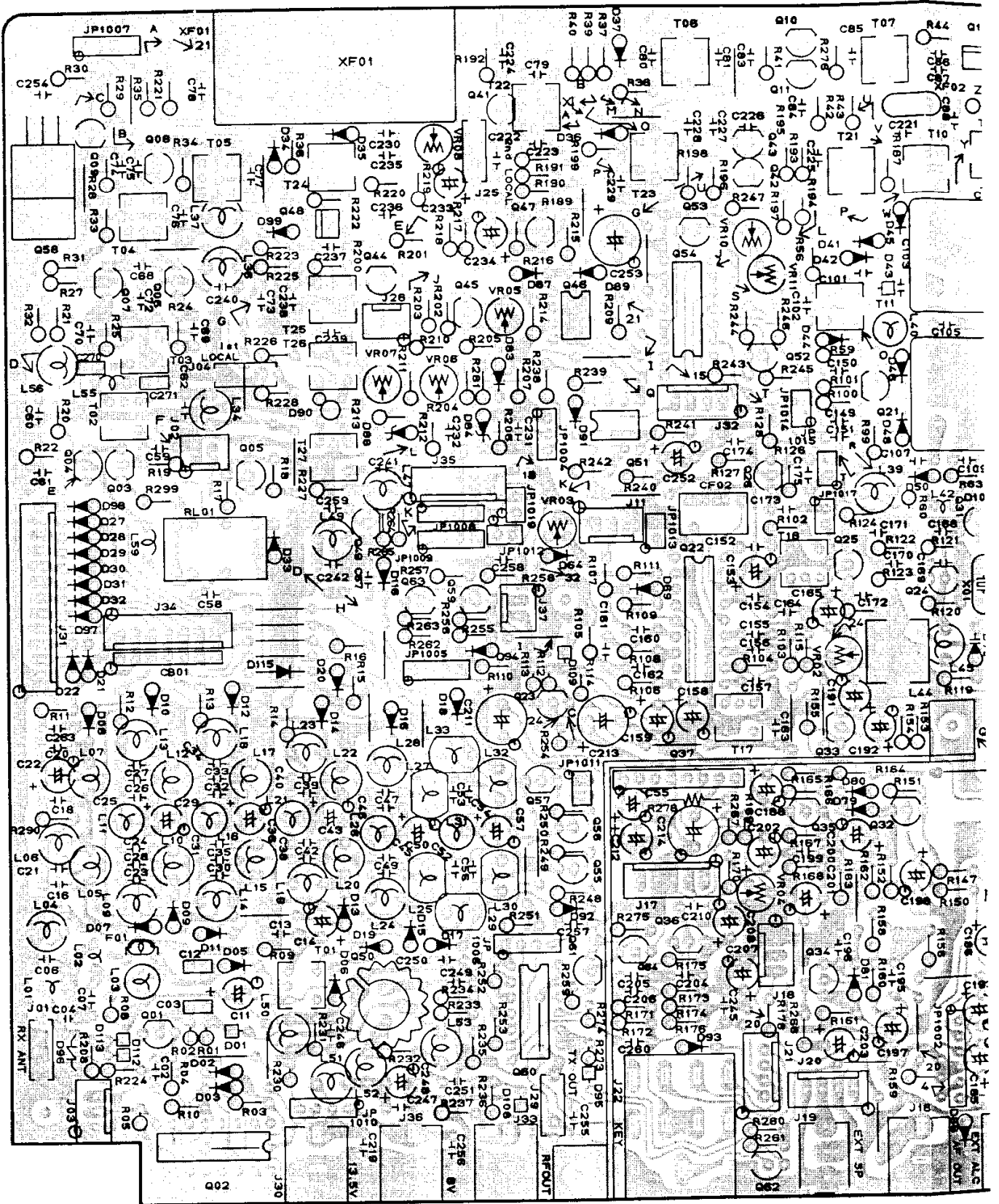


RF UNIT IC VOLTAGE CHART (DC VOLTS)

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	REMARKS
Q1002	0.0	-	-	-	-	0	0	7.9	-	-	-	-	-	-	-	8.0	-	-	MARKER ON
Q1022	-	7.1	7.5	1.1	1.1	1.1	-	-	-	-	-	-	2.5	0.7	-	-	0	-	
Q1029	-6.4	5.3	3.0	-7.8	3.2	3.5	6.0	8.0	-	-	-	-	-	-	-	-	-	-	SOL MIN
Q1029	7.1	5.3	3.0	-7.8	3.2	3.5	6.0	8.0	-	-	-	-	-	-	-	-	-	-	SOL MAX
Q1030	-	-	-	-	7.0 (SSB)	7.1	-	-	-	-	-	7.0 (CW)	7.8 (AM)	8.0	-	-	-	-	SOL MIN
Q1037	-	13.5	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Q1046	-0.7	-	0	-8.0	0	-	-5.0	8.0	-	-	-	-	-	-	-	-	-	-	
Q1051	-	0	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	0.780	8.0	7.3	8.0	-	-	-	-	RX/TX MODE SSR
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	-	-	-	-	MADE ON KEY DOWN

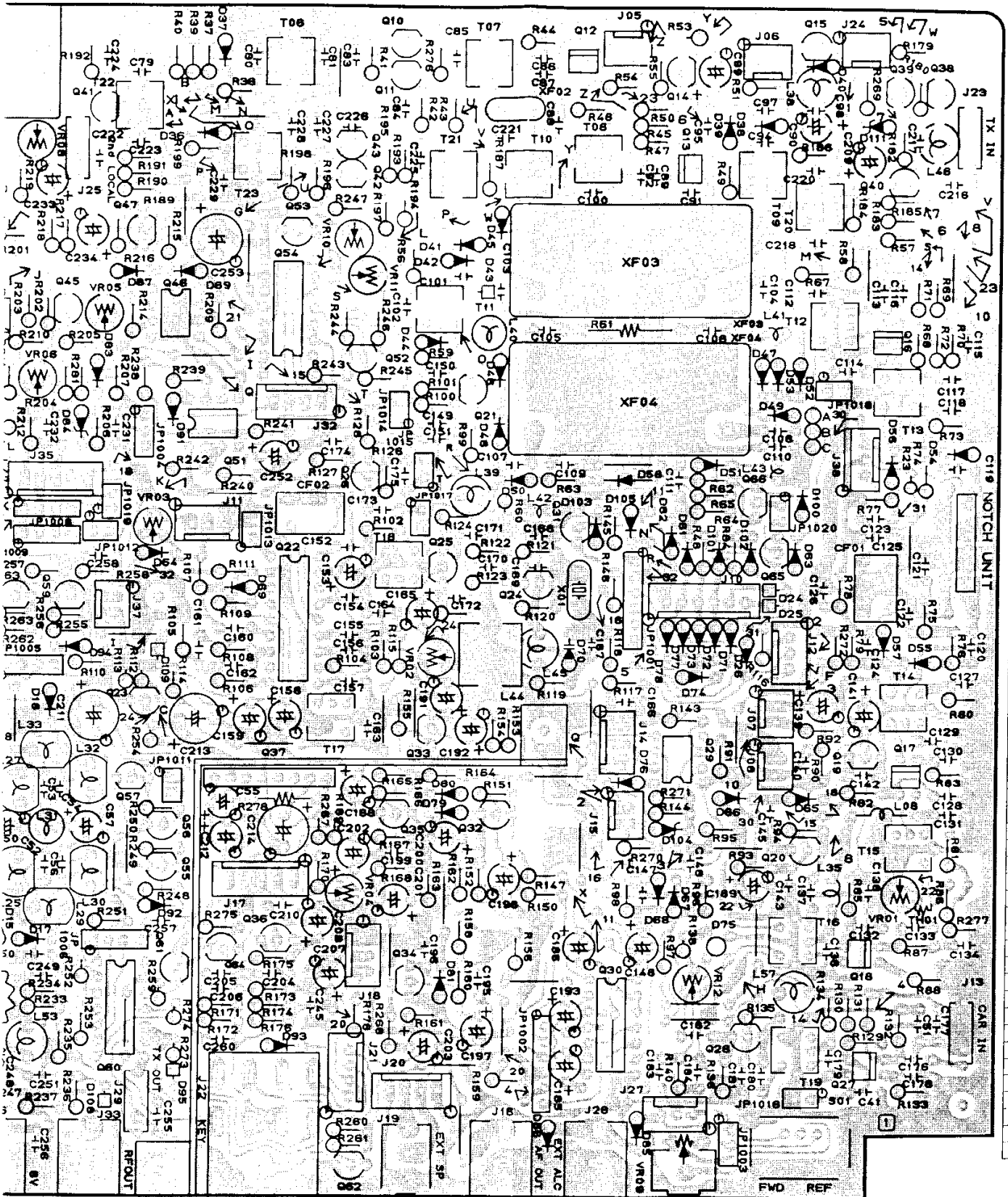
RF UNIT PARTS LAYOUT

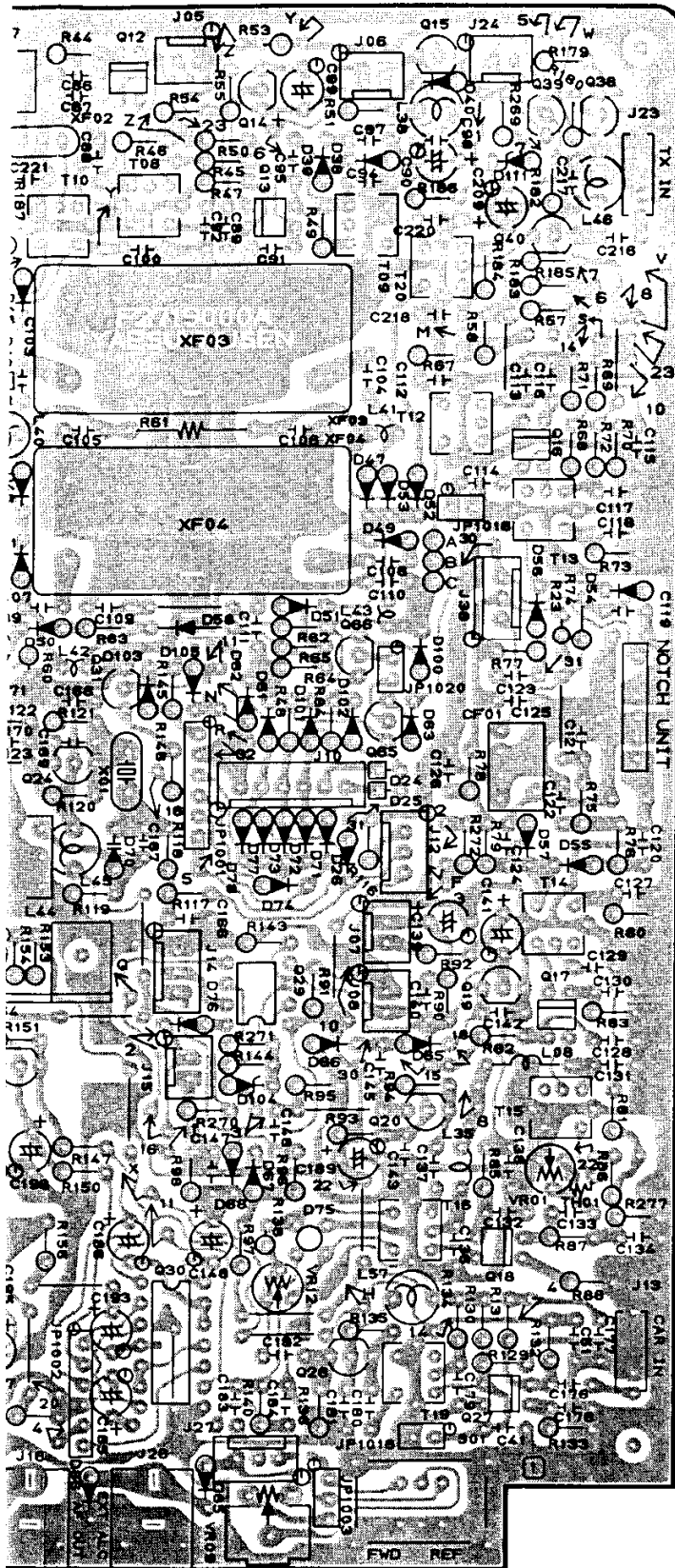
Solder Side



RF UNIT PARTS LAYOUT

Solder Side



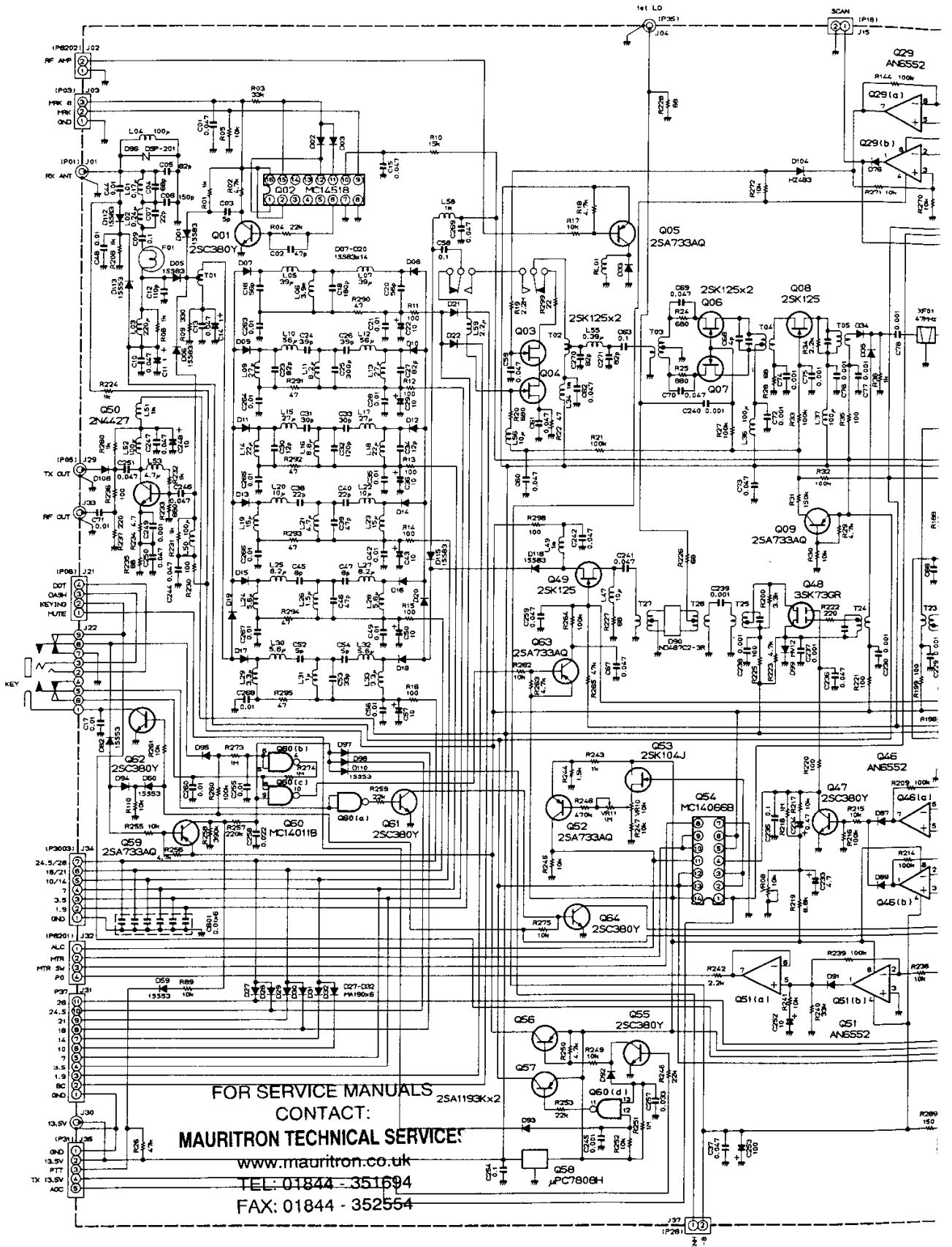


RF UNIT VOLTAGE CHART (DC VOLTS)

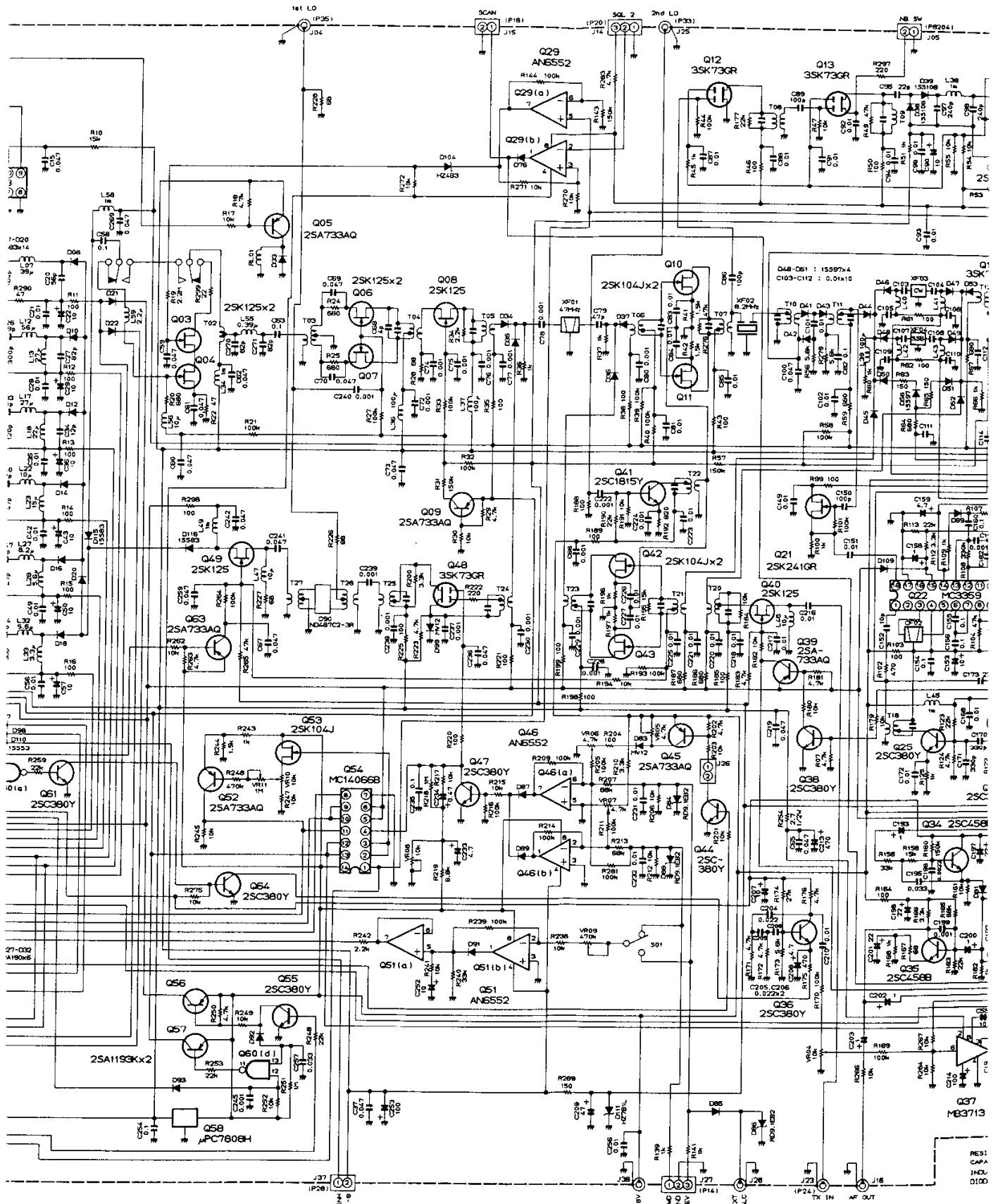
Q	E (S)		C (D)		B (G ₁)		G ₂		REMARKS
	R	T	R	T	R	T	R	T	
Q1001	0/0		5.8/0.7		0.2/0				MARKER ON/OFF
Q1003	49/0		130/0		2.5/0.5				RF AMP ON/OFF
Q1004	0.5/0		4.9/0		-1.2/-1.2				RF AMP ON/OFF
Q1005	13.3/13.3		0/13.3		13.3/12.6				RF AMP ON/OFF
Q1006	2.1	-	13.3	-	-1.2	-			
Q1007	2.0	-	13.3	-	-1.2	-			
Q1008	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		13.0/13.0		-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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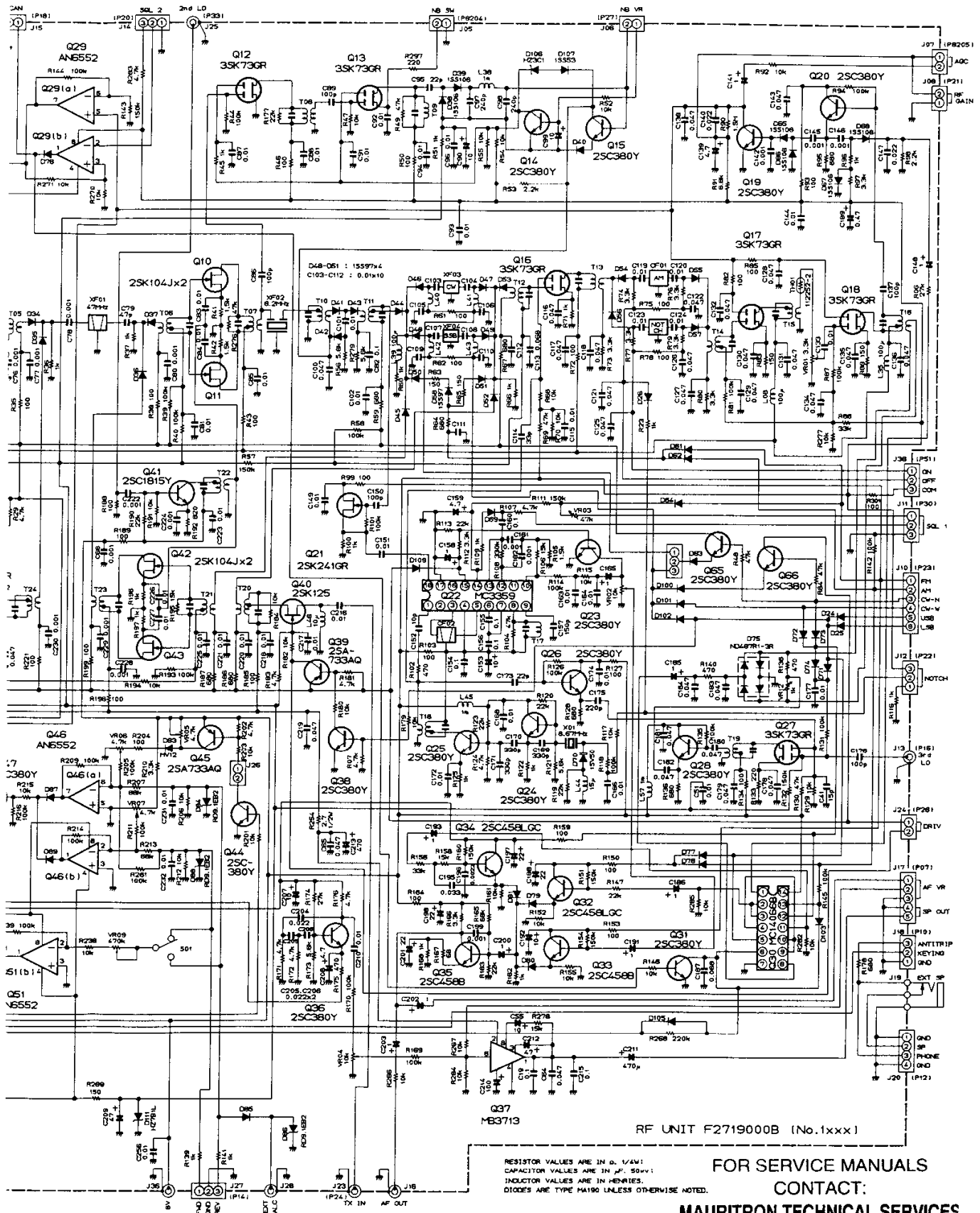
RF UNIT SCHEMATIC DIAGRAM



RF UNIT SCHEMATIC DIAGRAM



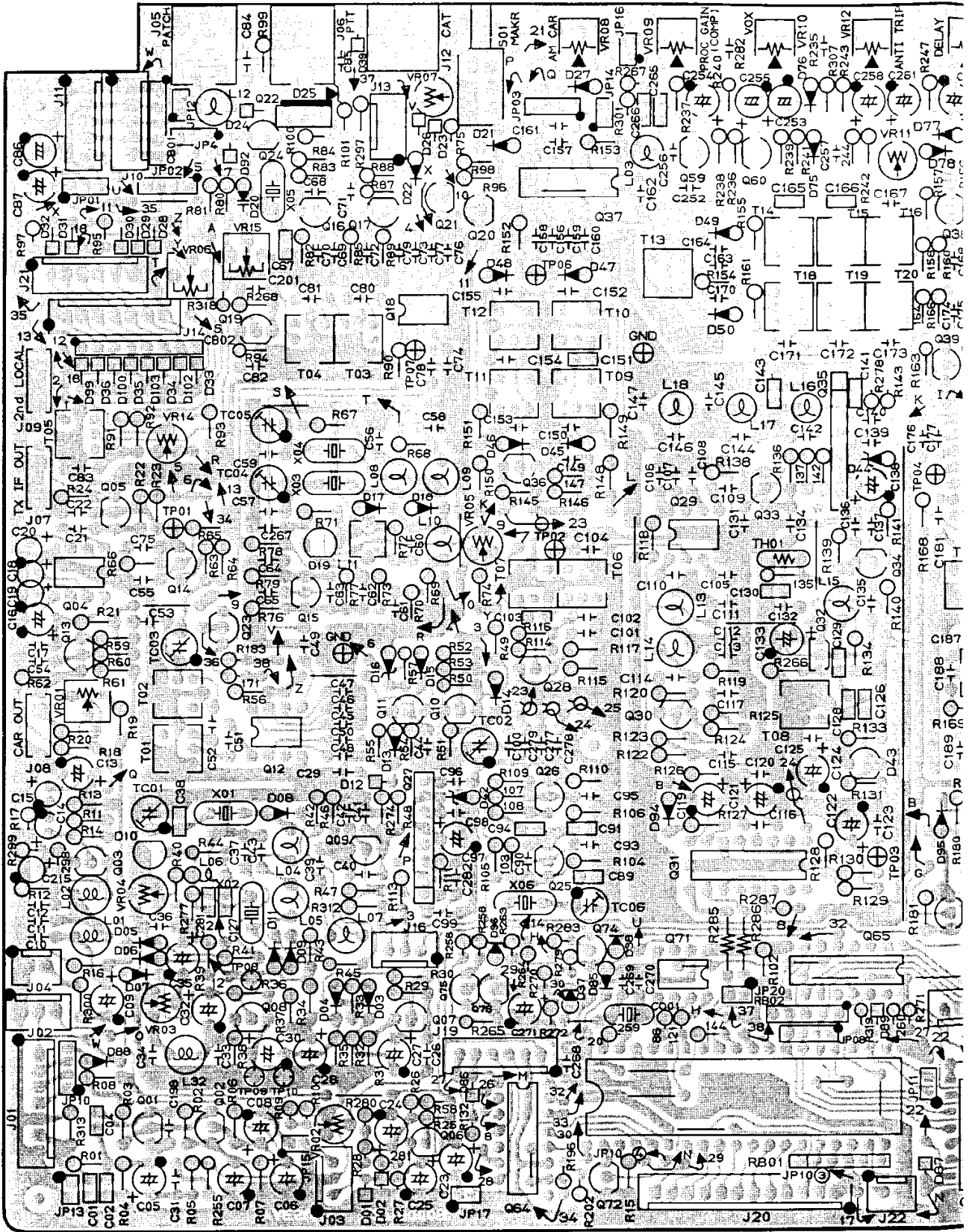
DIAGRAM



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LOCAL UNIT PARTS LAY

Component Side



LOCAL UNIT PARTS LAYOUT

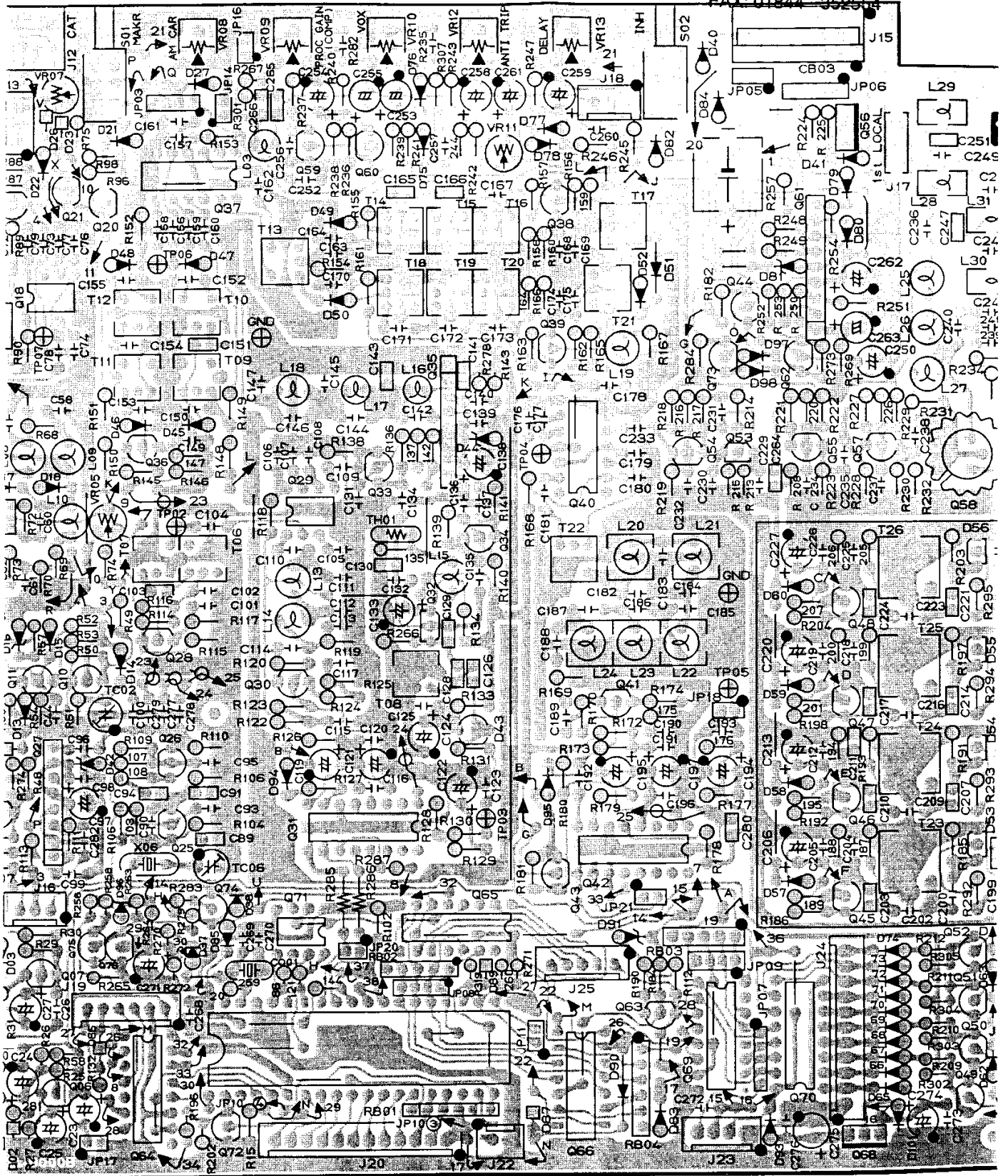
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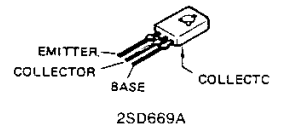
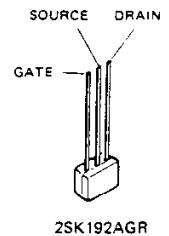
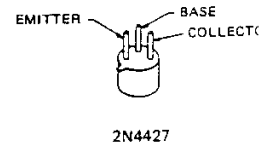
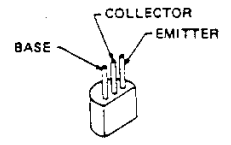
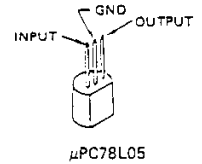
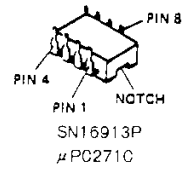
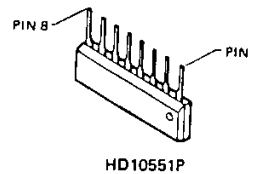
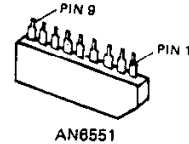
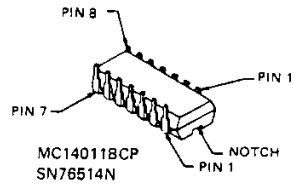
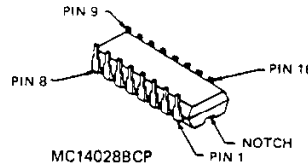
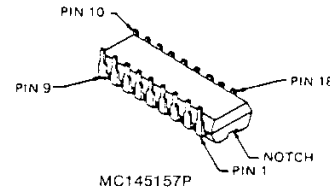
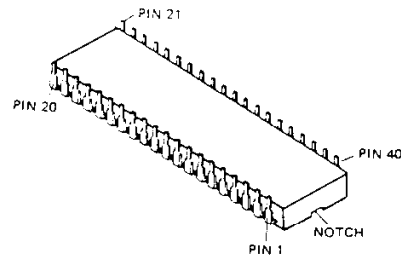
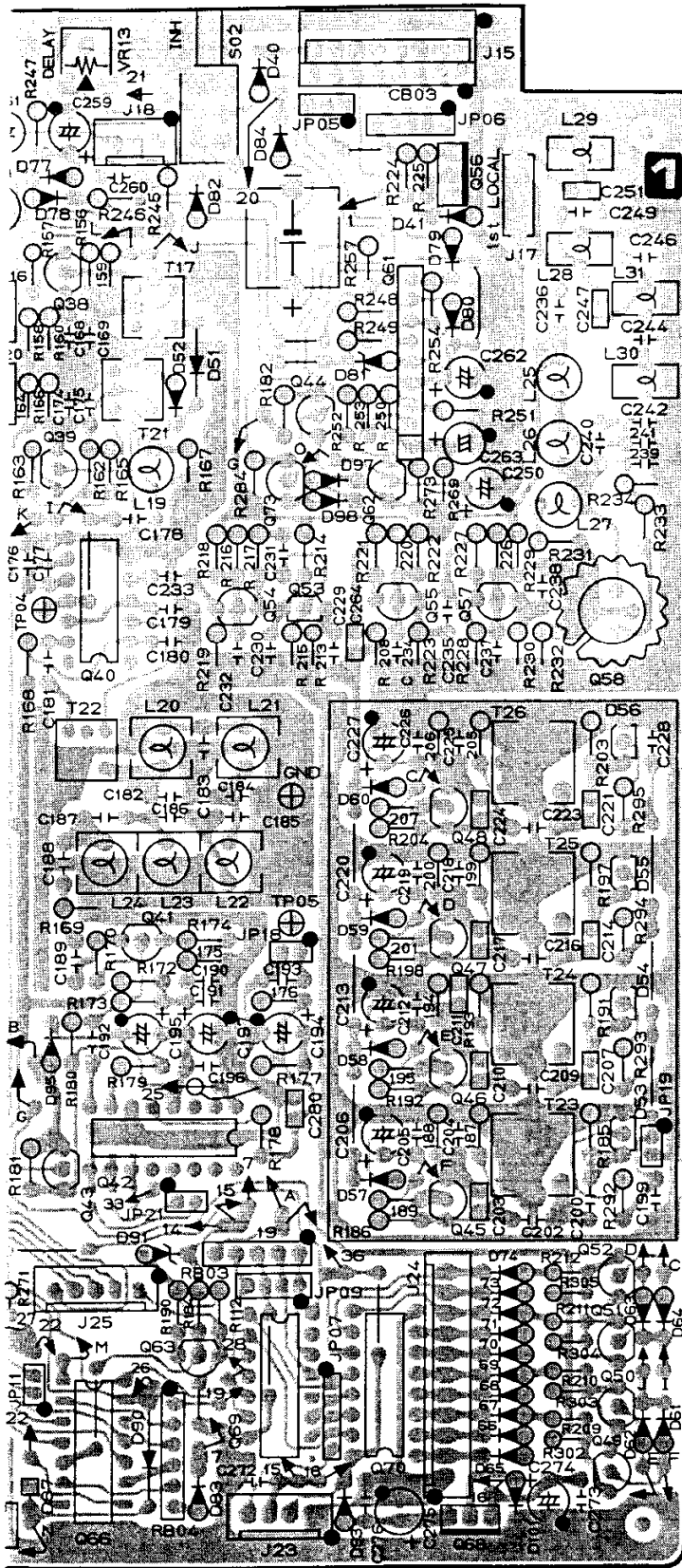
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Component Side

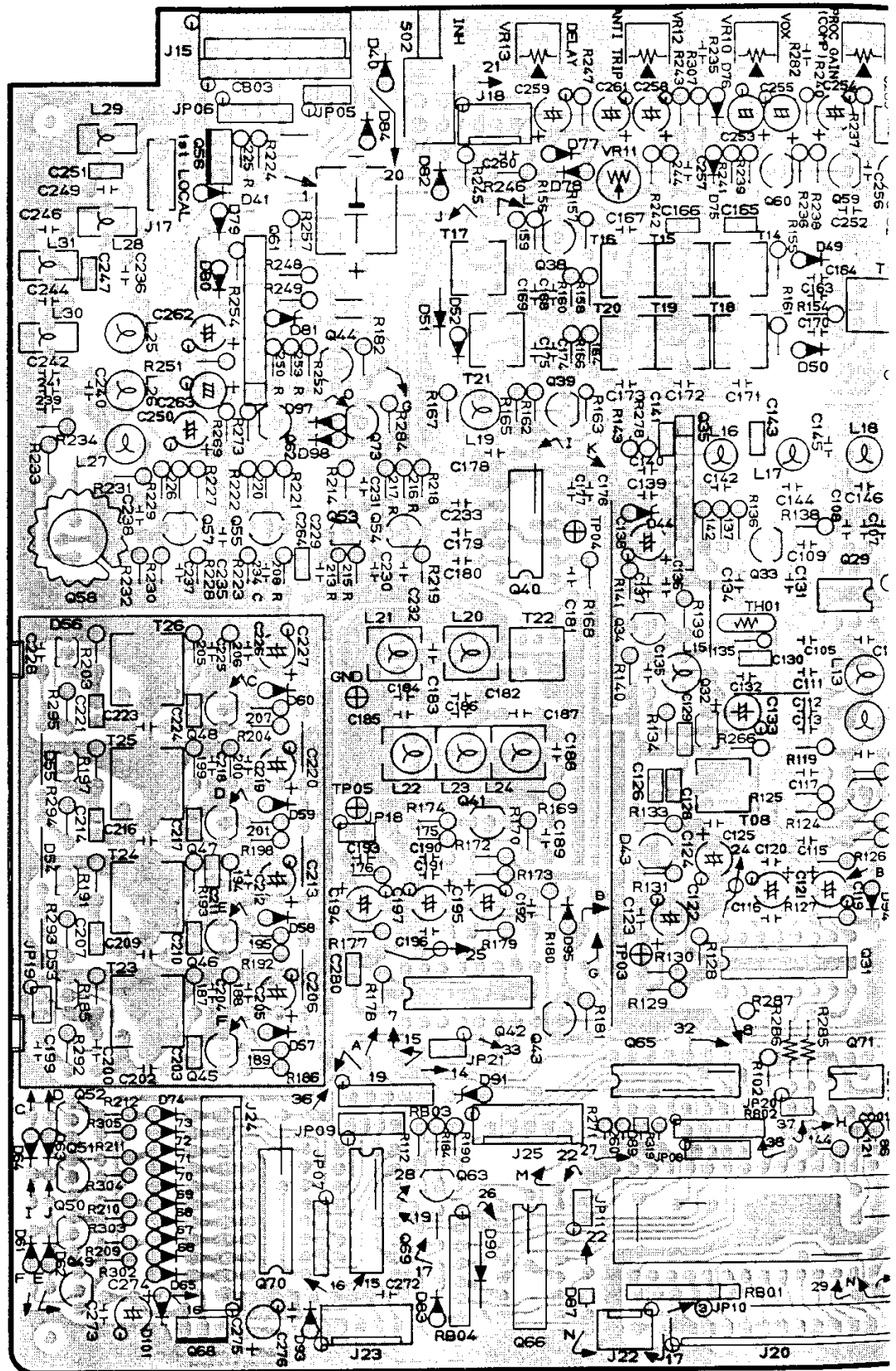




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LOCAL UNIT

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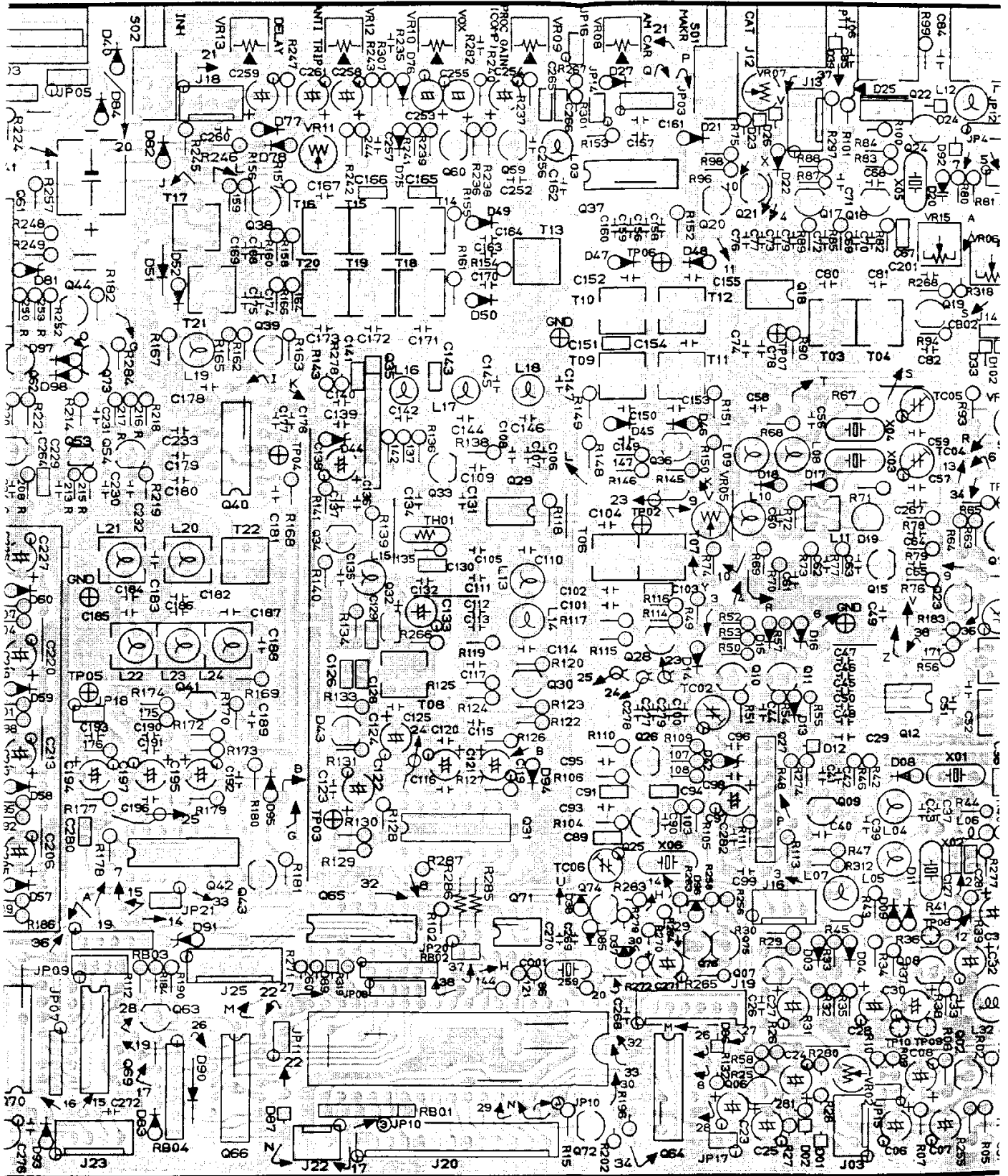
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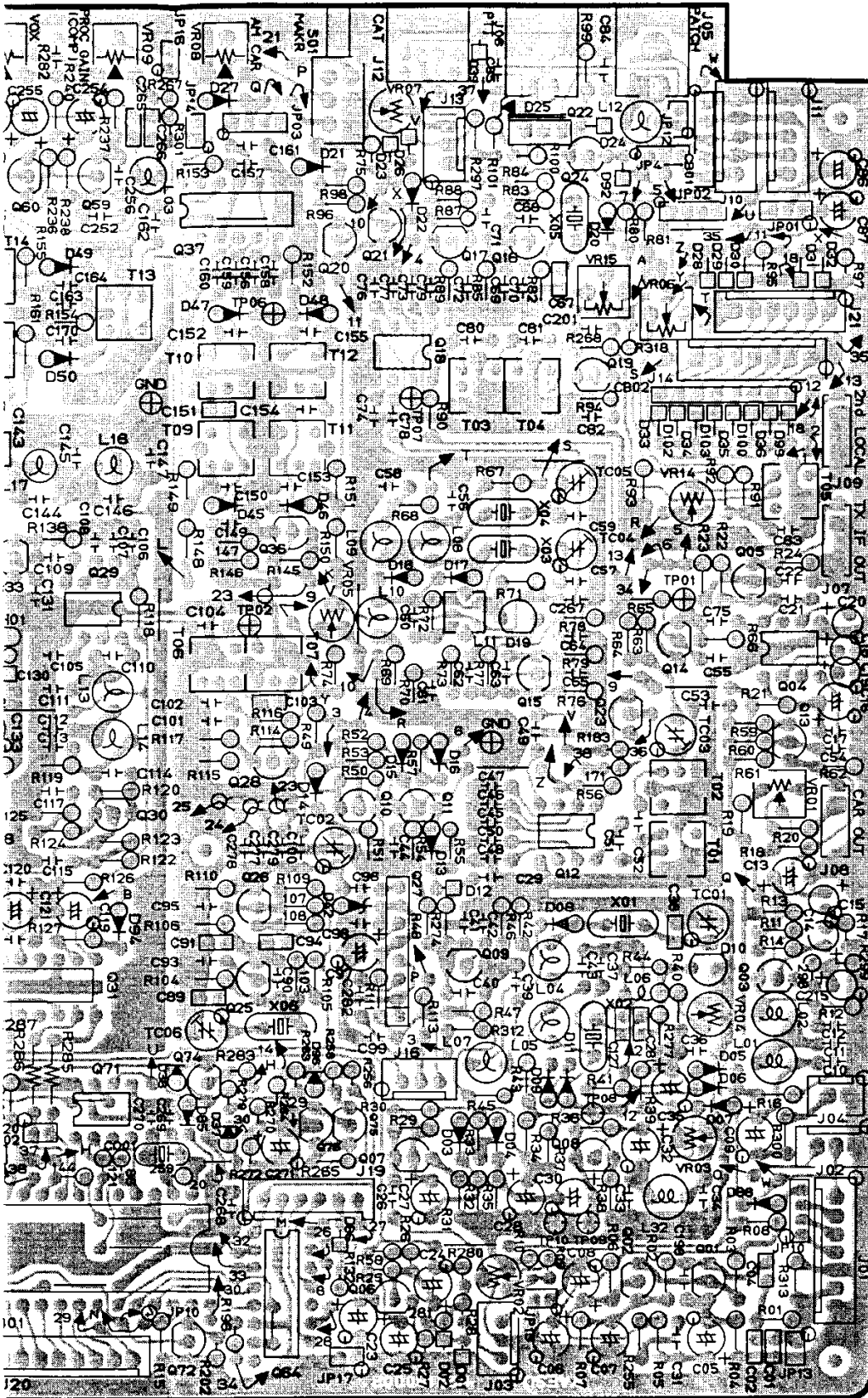
LOCAL UNIT PARTS LAYOUT

Solder Side



L UNIT PARTS LAYOUT

Solder Side



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LOCAL UNIT VOLTAGE CHART

(DC VOLTS)

	E		(S)		C		(D)		B		(G.)		(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 SSBAMFM
Q2021	0.8	6.3	0.8	12.4	1.5	7.0									MODE FM
Q2022	IN 0	IN 13.5	OUT 0	OUT 50											
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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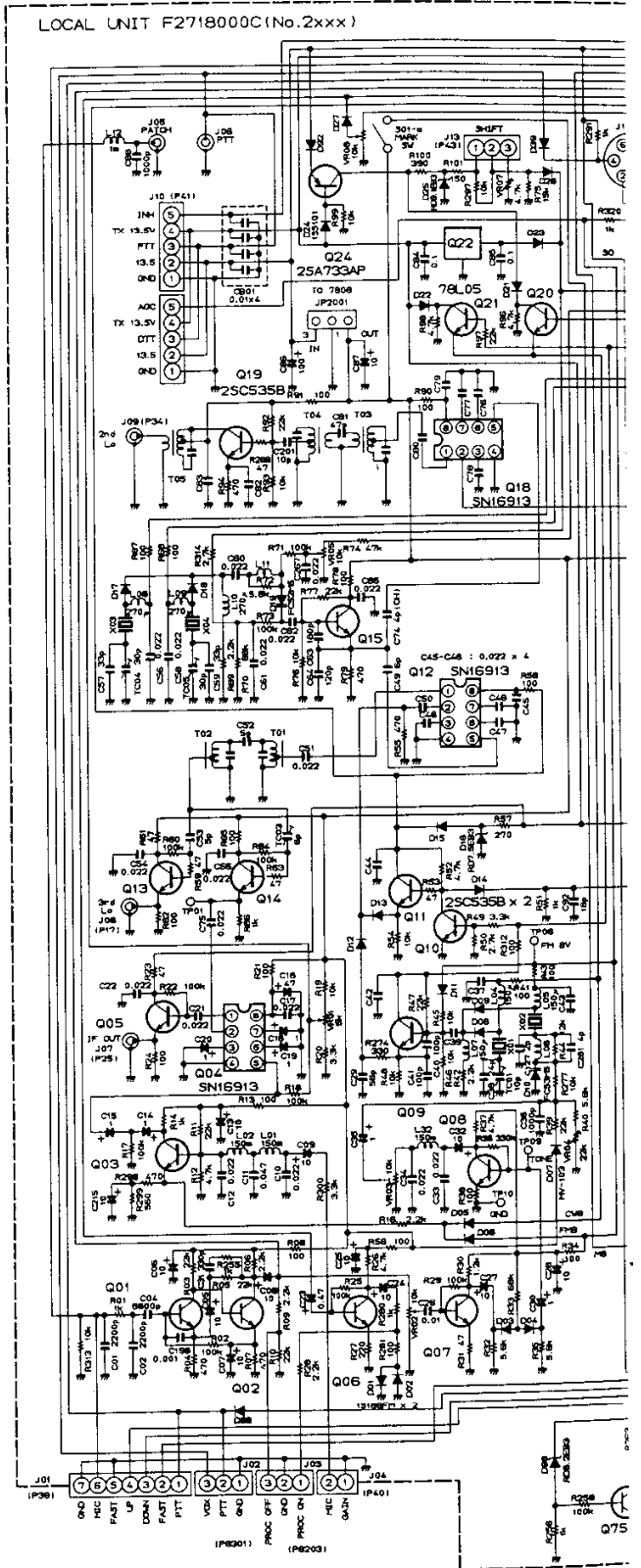


VOLTAGE CHART

(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

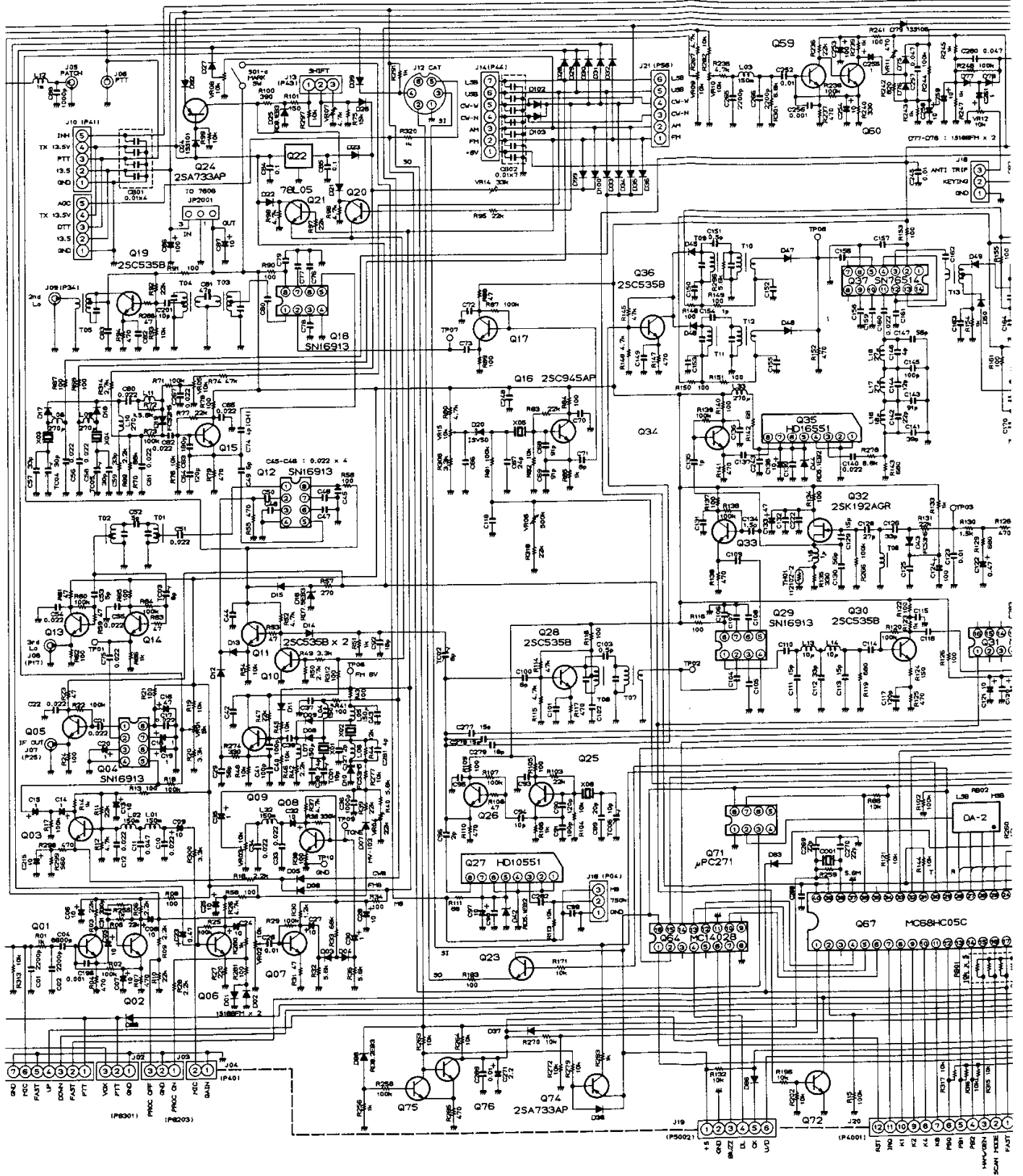
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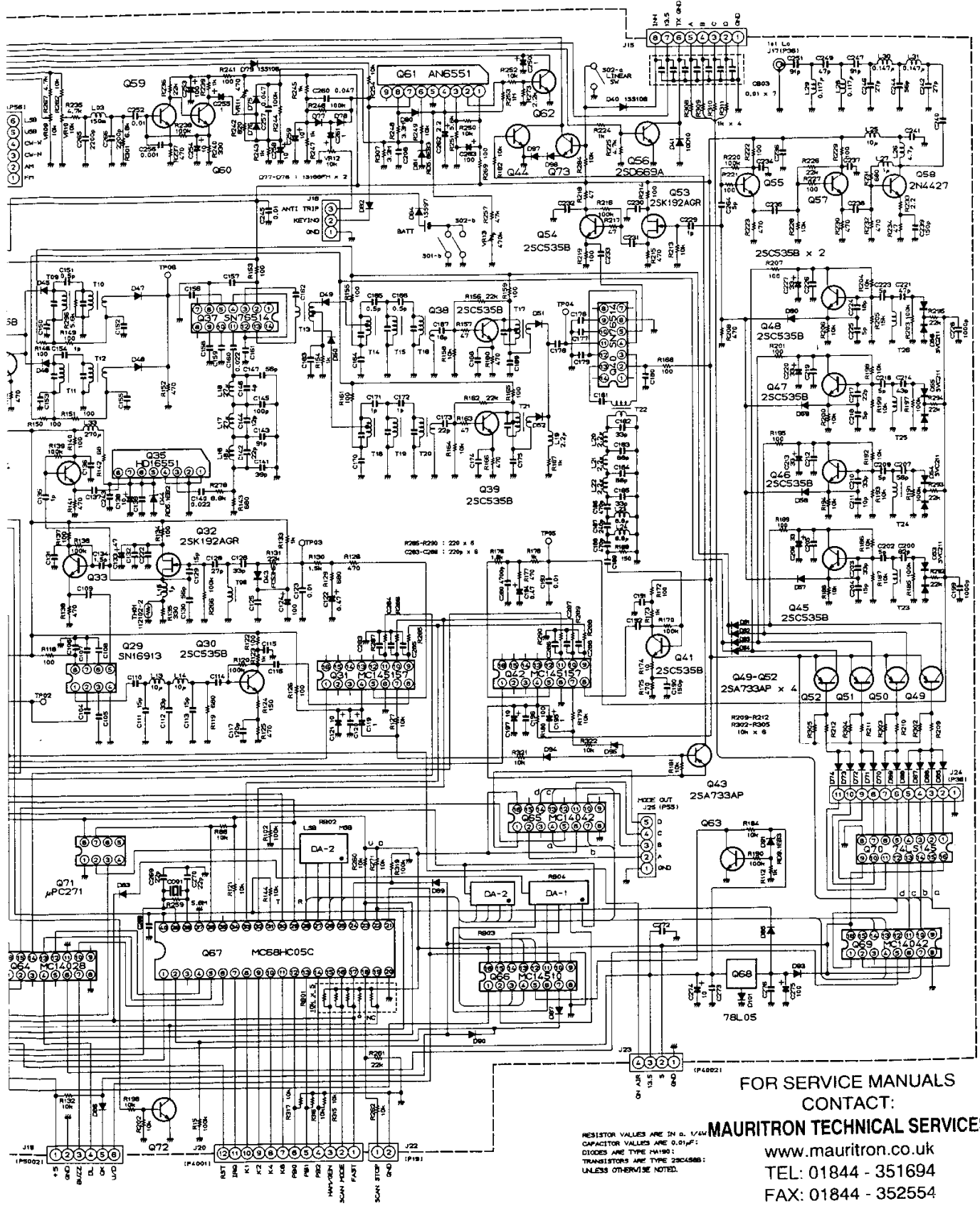
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LOCAL UNIT SCHEMATIC DIAGRAM

CAL UNIT F2718000C(No.2xxx)

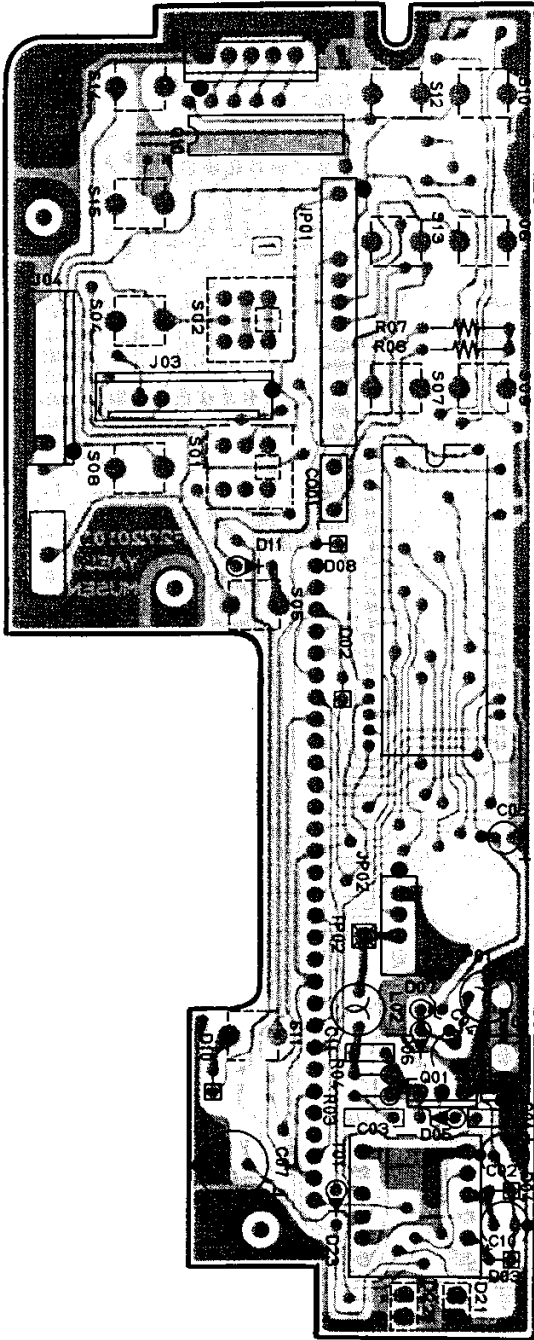


SCHEMATIC DIAGRAM

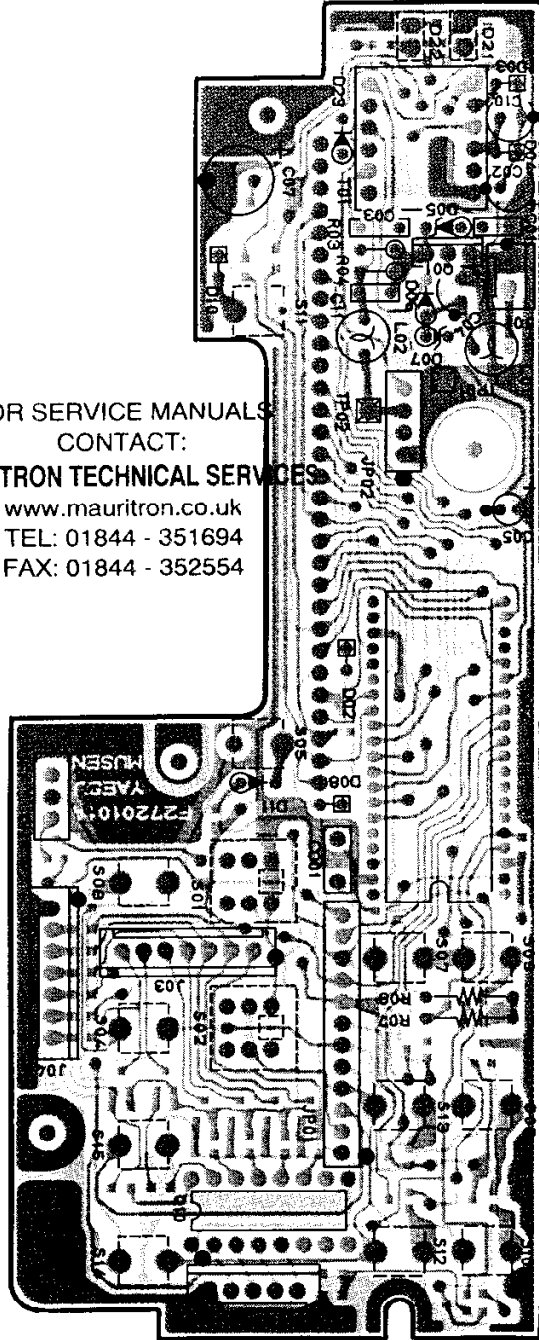


DISPLAY UNIT PARTS LAYOUT

Component Side



Solder Side

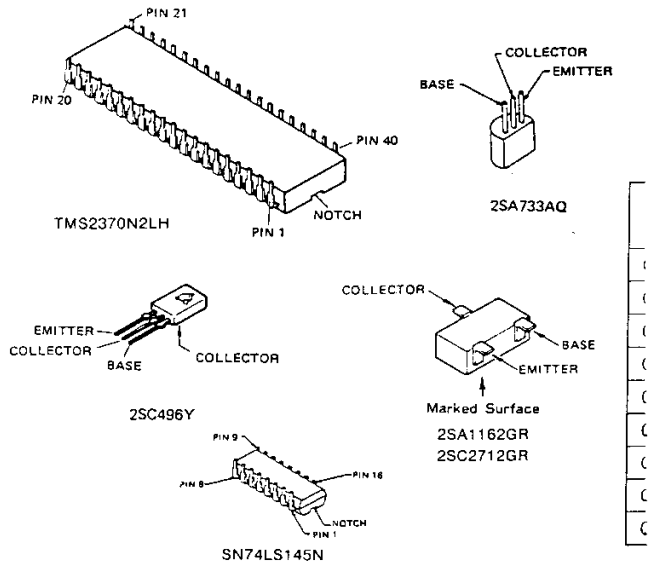
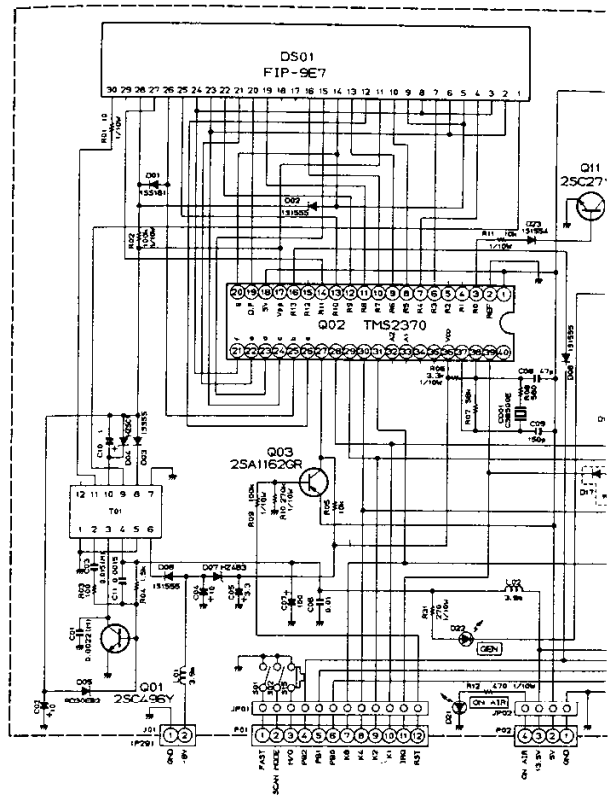
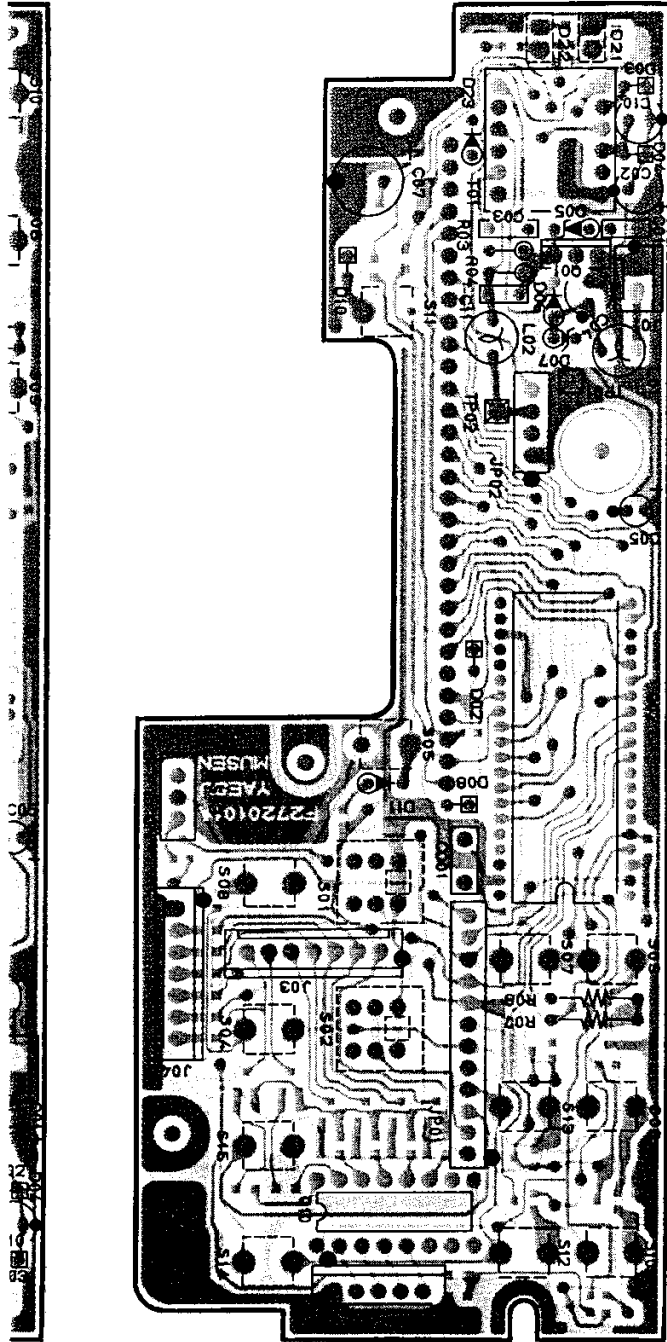


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P
E
COL:

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

FOR SERVICE MANUALS

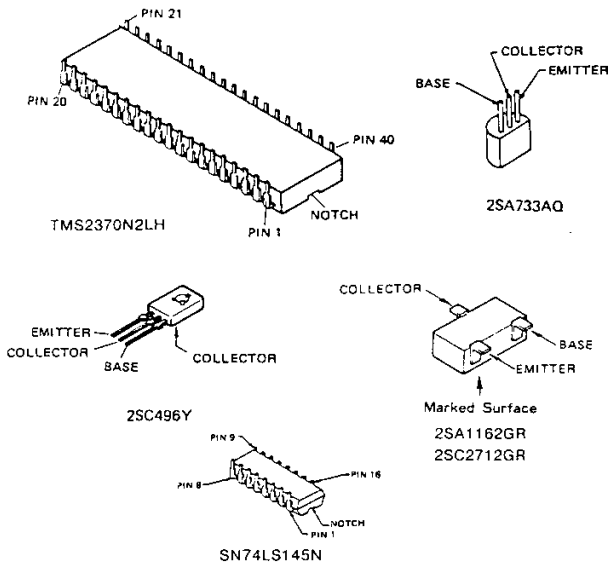
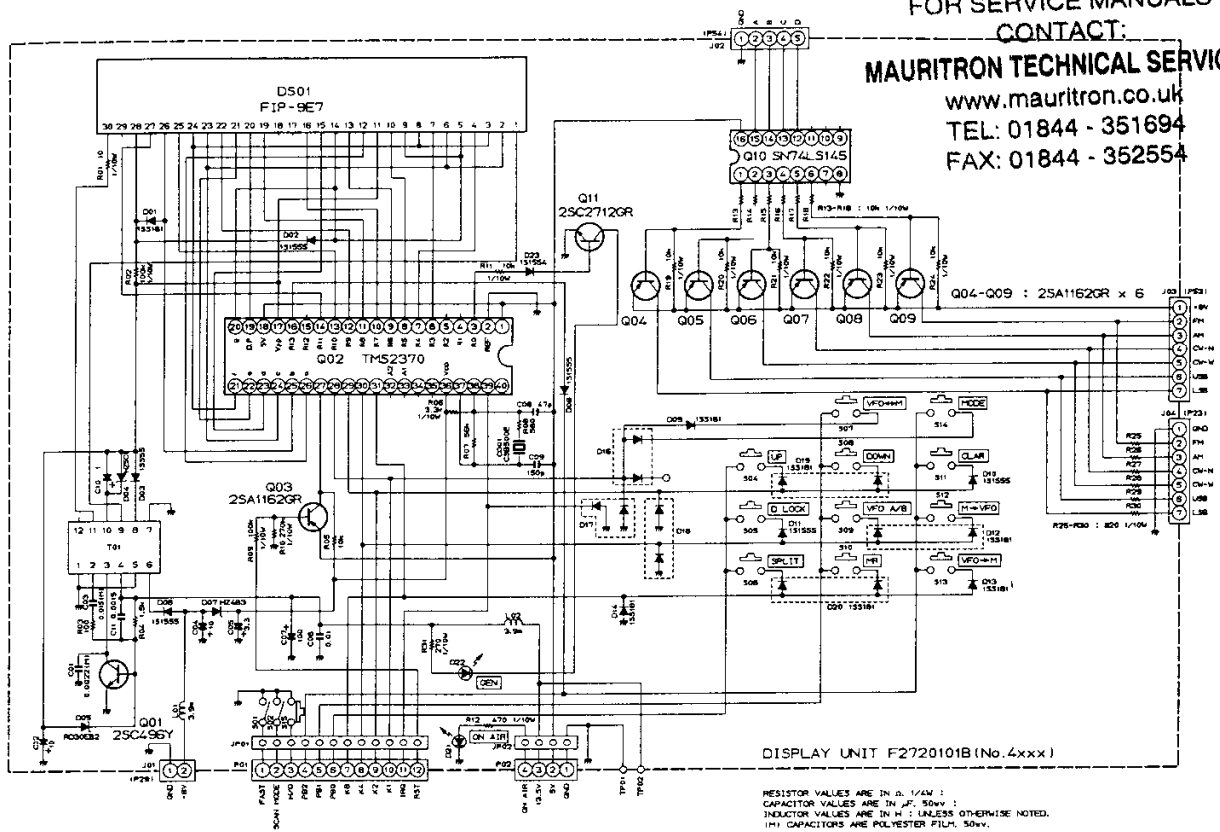
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DISPLAY UNIT VOLTAGE CHART

(DC VOLTS)

	E (S)		C (D)		B (G ₁)		REMARKS
	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

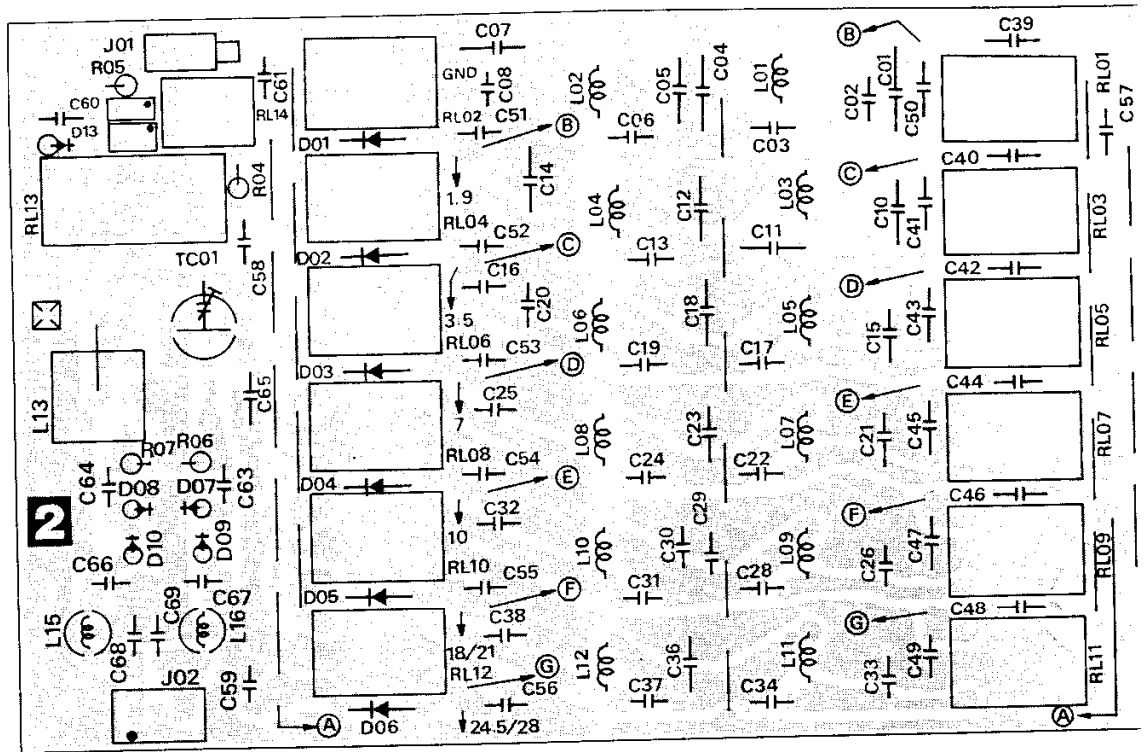
DISPLAY UNIT IC VOLTAGE CHART

(DC VOLTS)

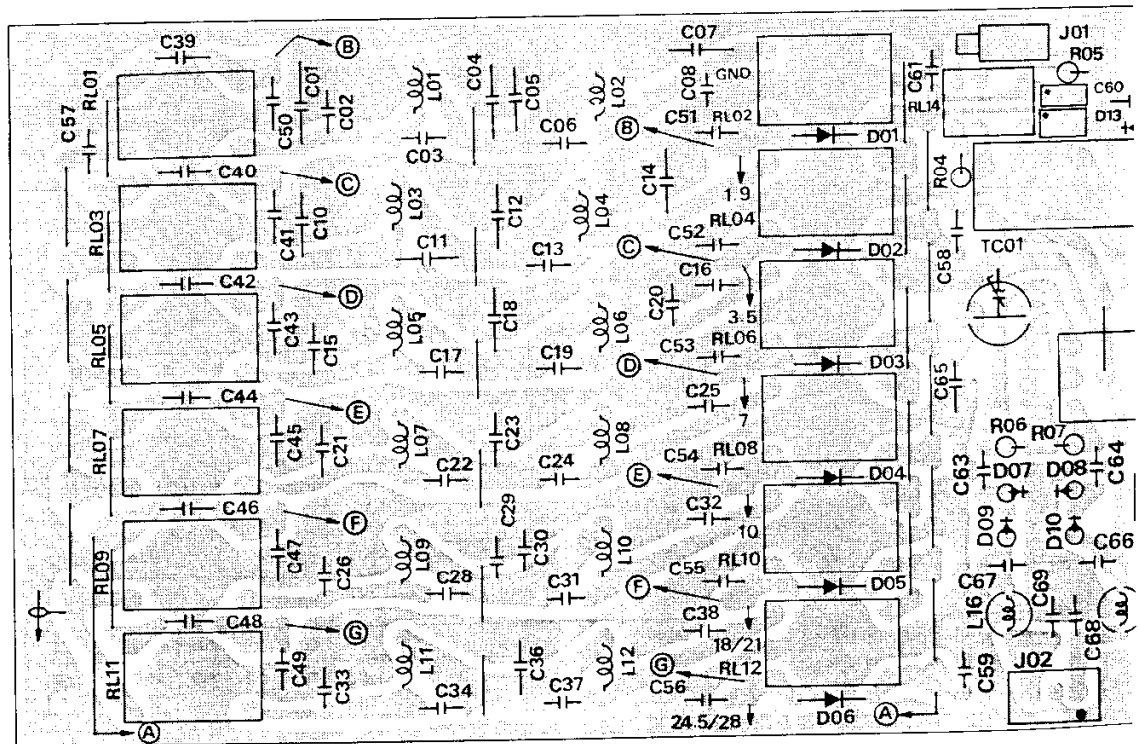
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	REMARKS
Q4010	0.1	7.4	7.4	7.4	7.2	7.4	—	0	—	—	—	0.1	0.1	0.1	0.1	5.0	MODE LSB
Q4010	7.3	0.1	7.5	7.3	7.4	7.4	—	0	—	—	—	0.1	0.1	0.1	0.1	5.0	MODE USB
Q4010	7.3	7.4	0.1	7.2	7.4	7.5	—	0	—	—	—	0.1	0.1	5.0	5.0	5.0	MODE CW-W
Q4010	7.4	7.2	7.3	0.1	7.5	7.5	—	0	—	—	—	0.1	0.1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

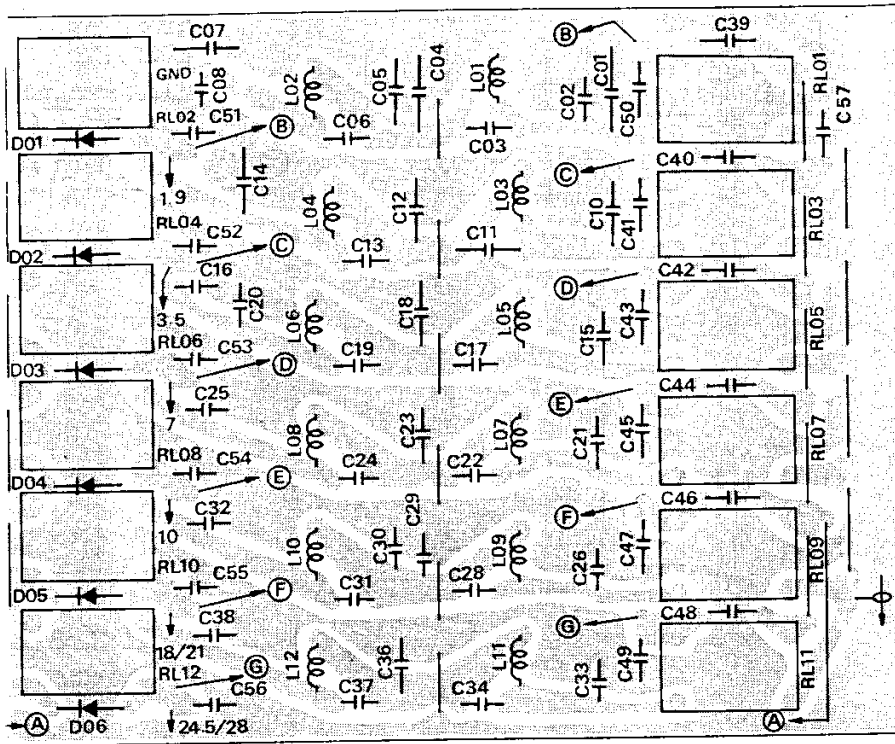


Solder Side

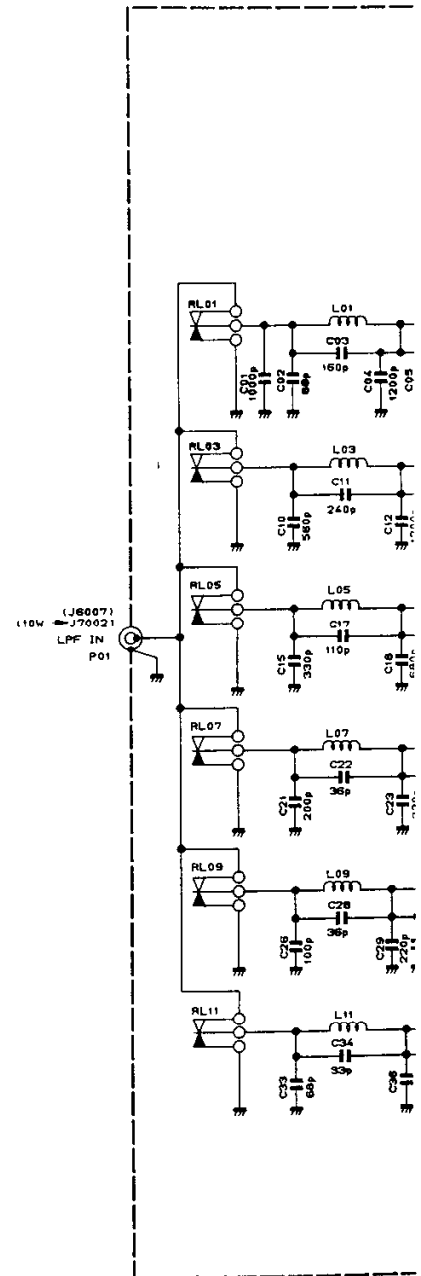
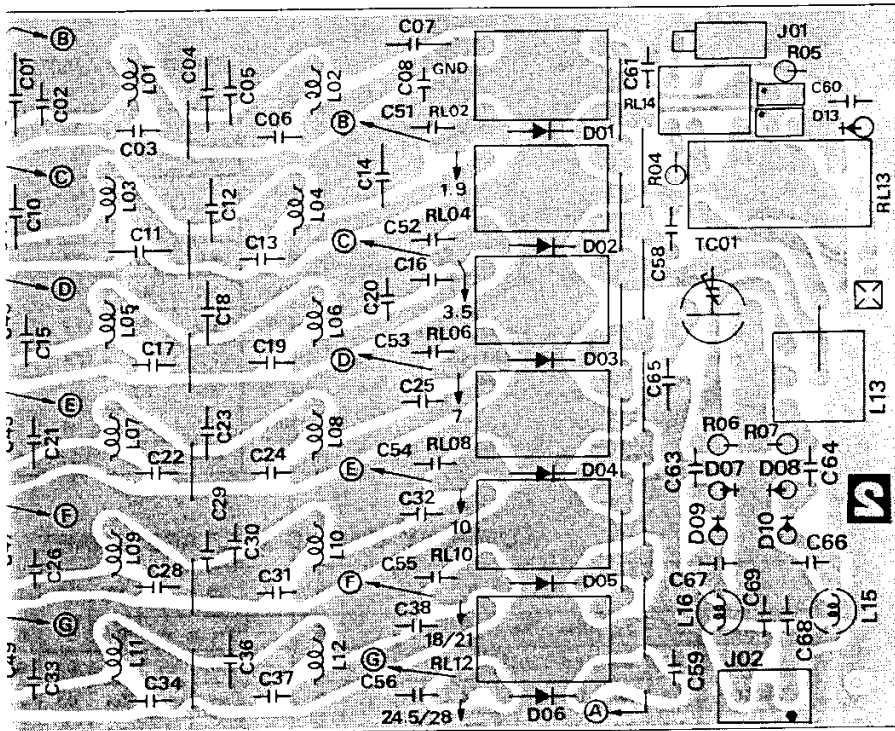


.PF UNIT PARTS LAYOUT

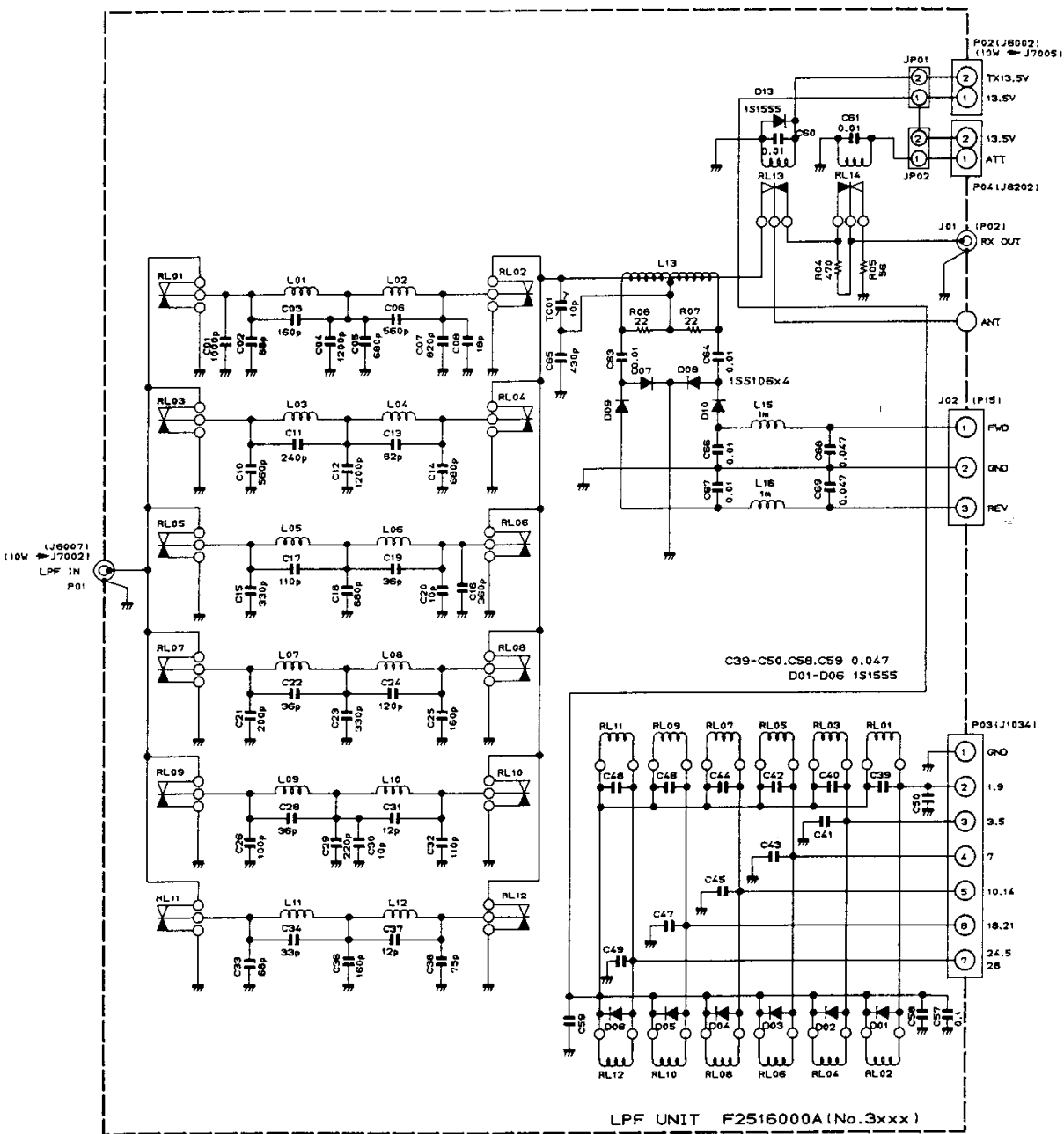
Component Side



Solder Side



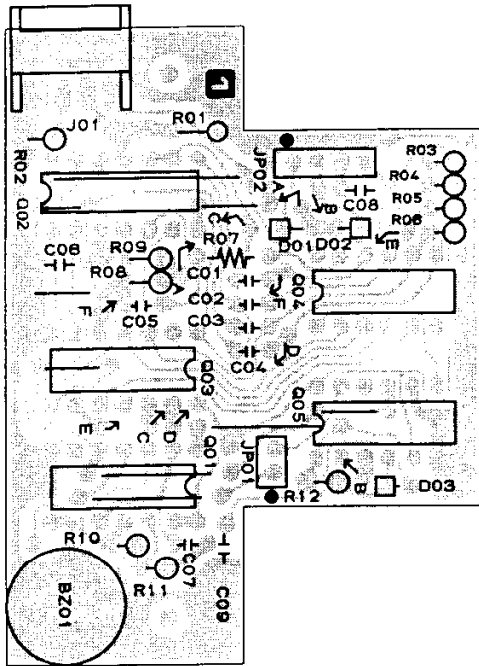
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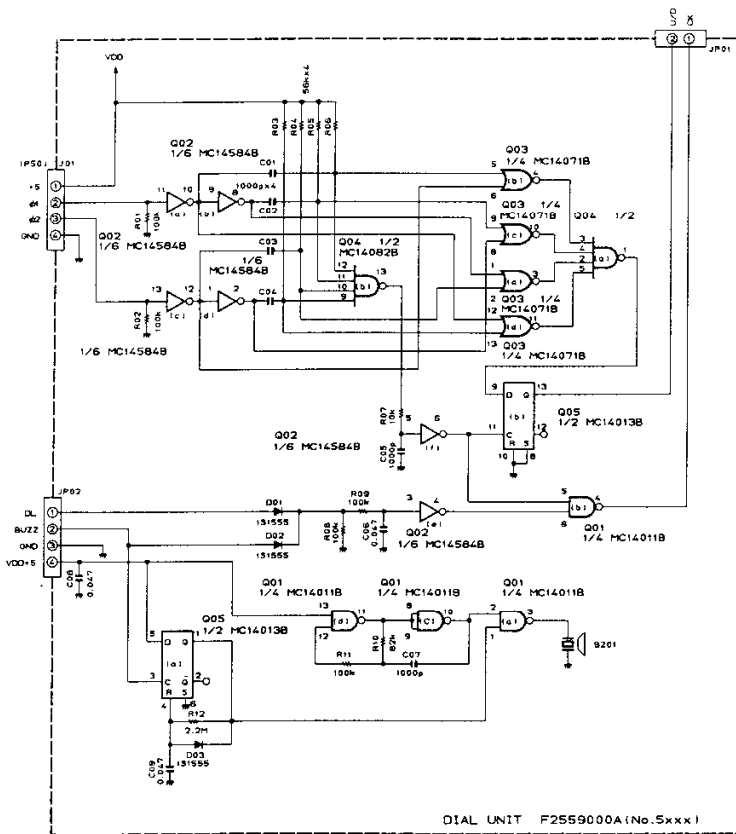
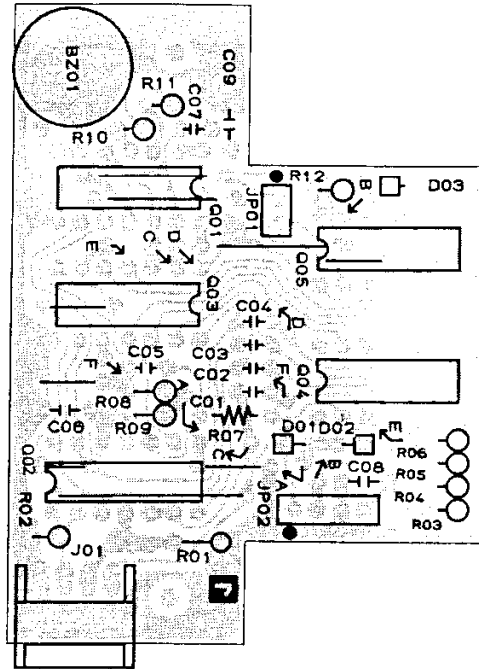
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DIAL UNIT PARTS LAYOUT

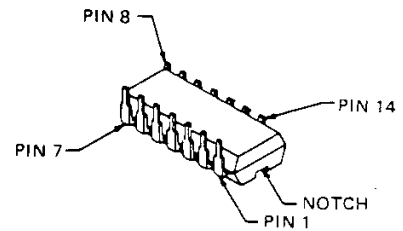
Component Side



Solder Side



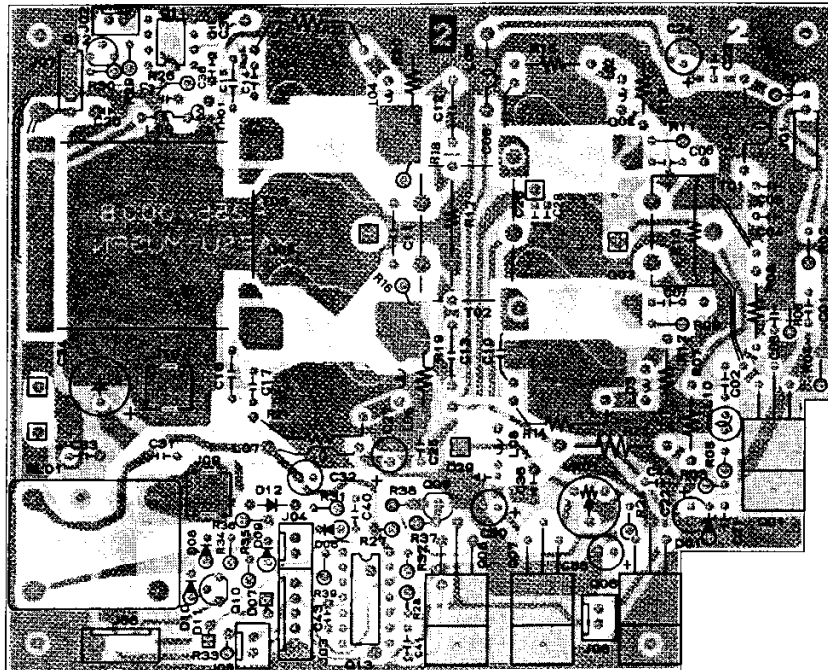
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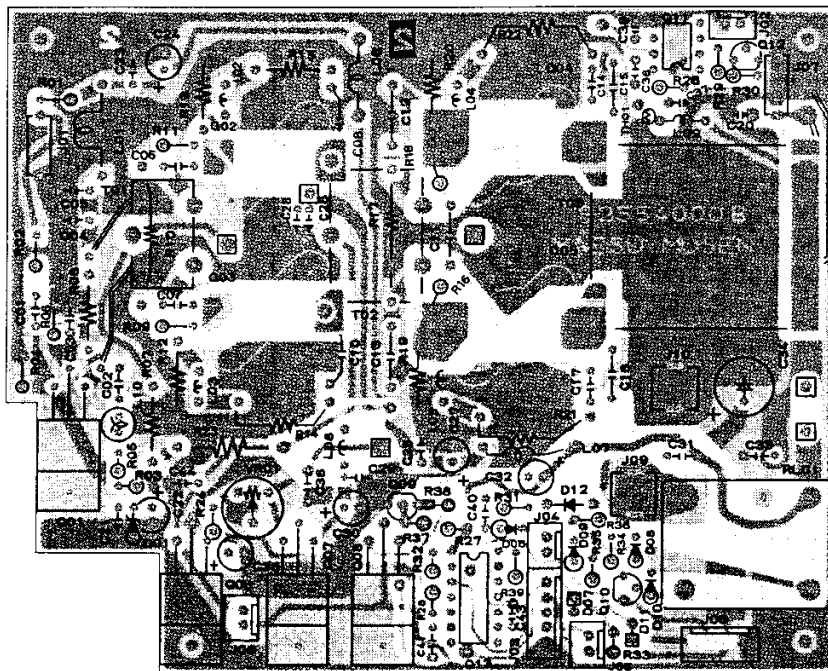
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- MC14013BCP
- MC14071BCP
- MC14082BCP
- MC14584BCP

100W PA UNIT PARTS LAYOUT

Component Side



Solder Side

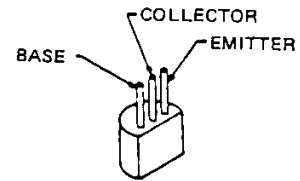
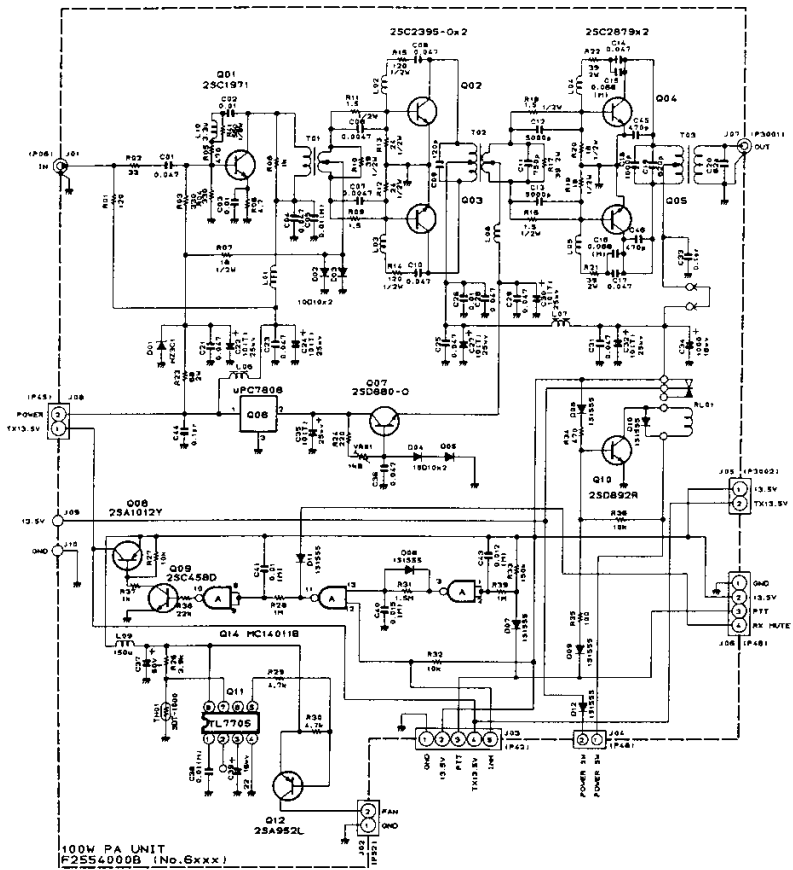


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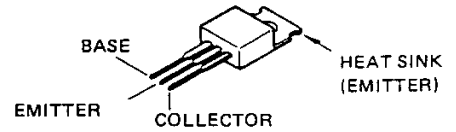
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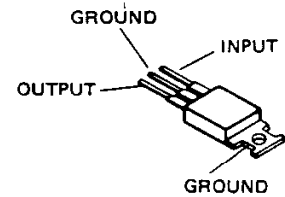
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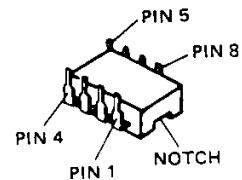
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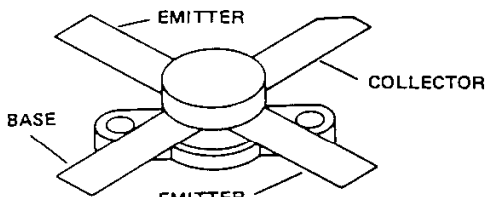
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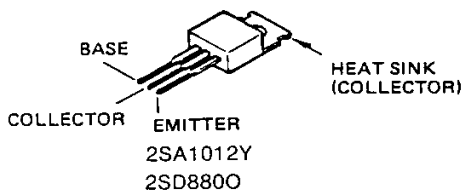
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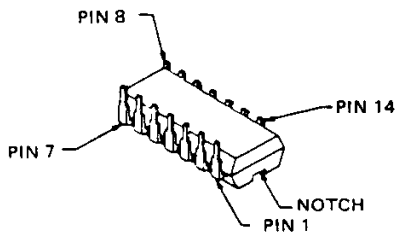
TL7705



2SC2395
2SC2879



2SA1012Y
2SD8800



MC14011BCP

100W PA UNIT VOLTAGE CHART

(DC VOLTS)

	E (S)		C (D)		B (G ₁)		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

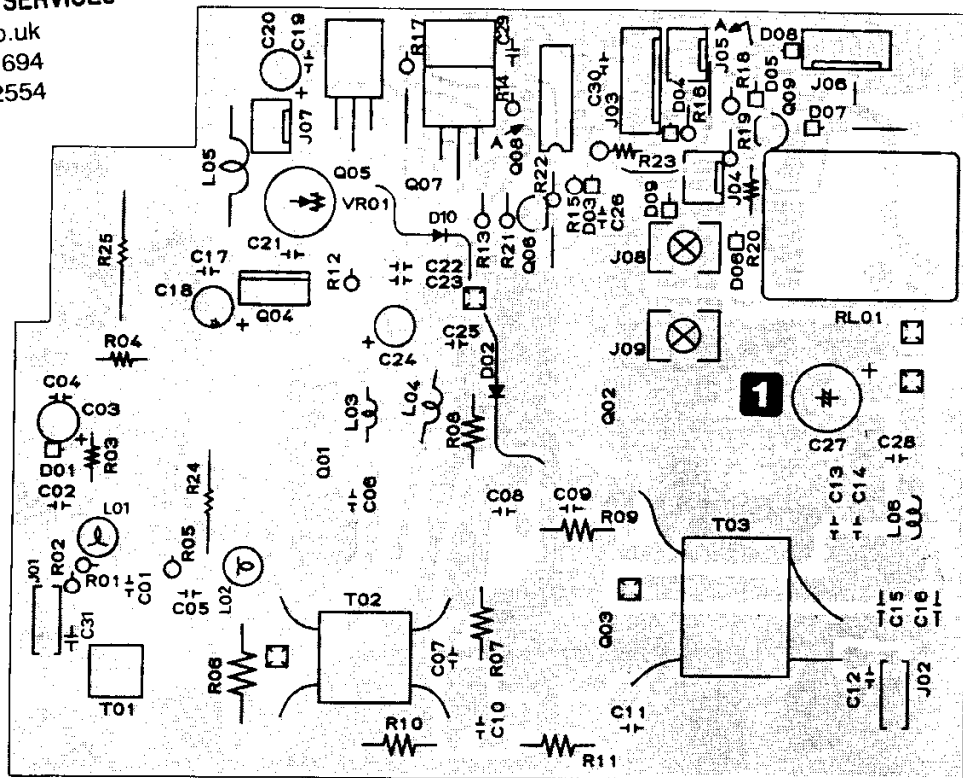
100W PA UNIT IC VOLTAGE CHART (DC VOLTS)

	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

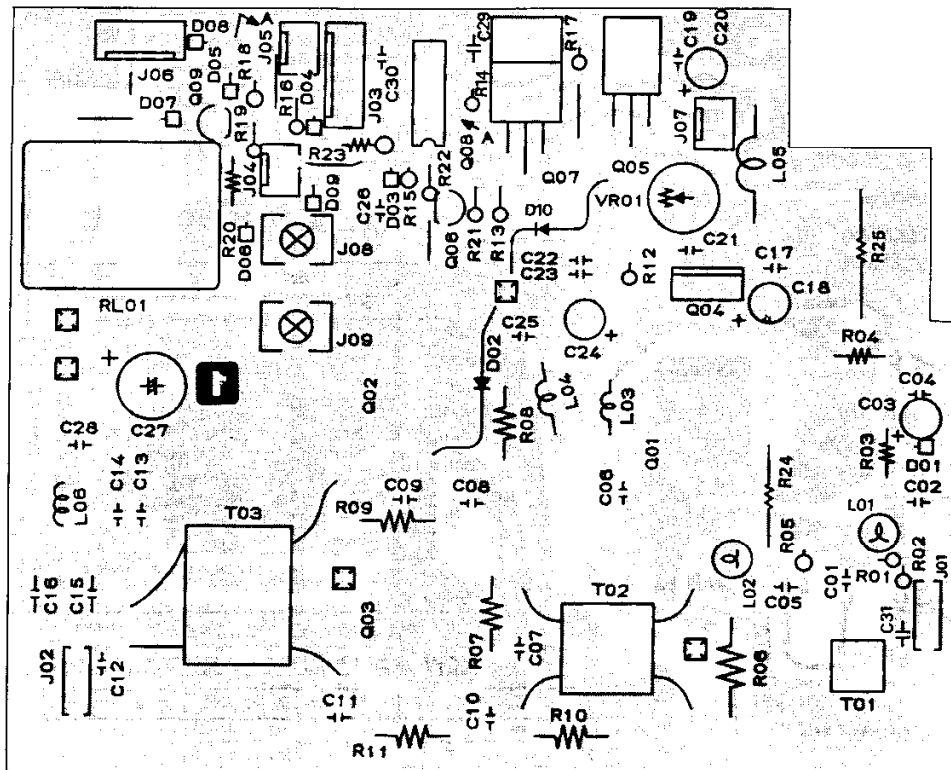
10W PA UNIT PARTS LAYOUT

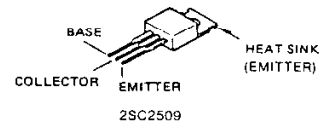
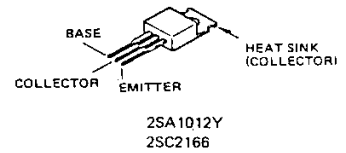
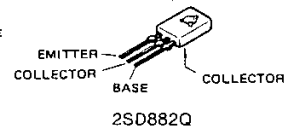
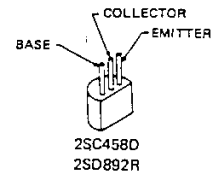
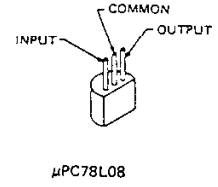
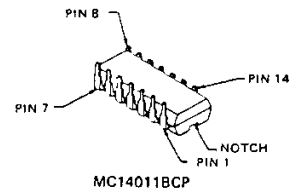
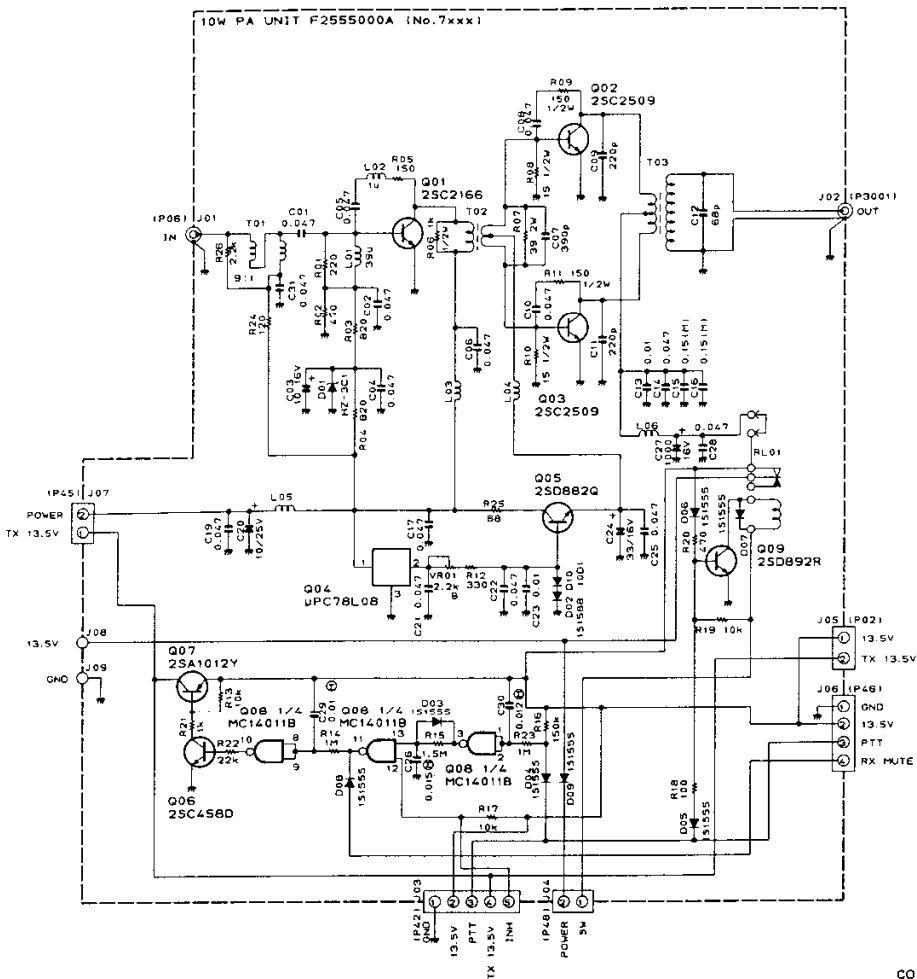
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Component Side



Solder Side





10W PA UNIT VOLTAGE CHART

(DC VOLTS)

	E (S)		C (D)		B (G.)		REMARKS
	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

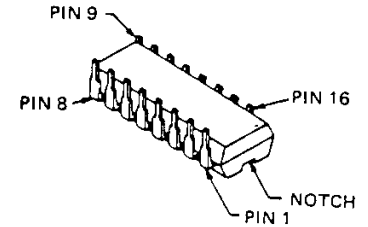
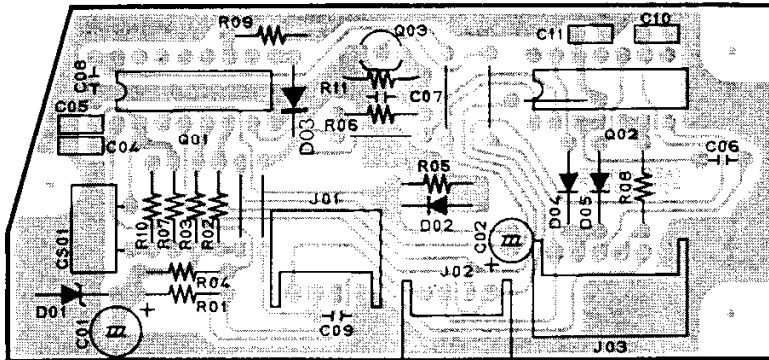
(DC VOLTS)

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



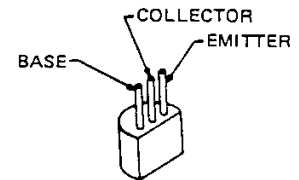
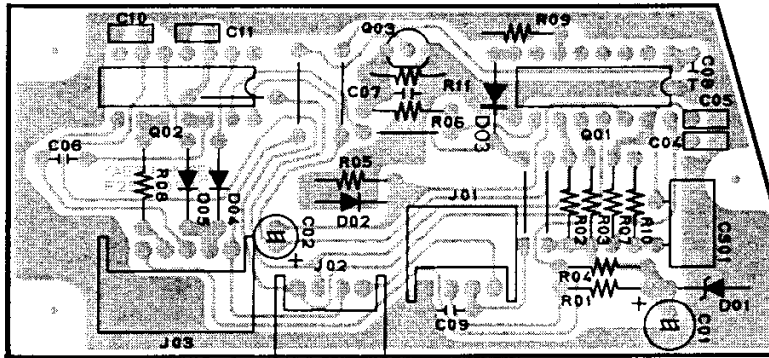
KEYER UNIT PARTS LAYOUT

Component Side



MC14049UBCP
TMS1751C

Solder Side



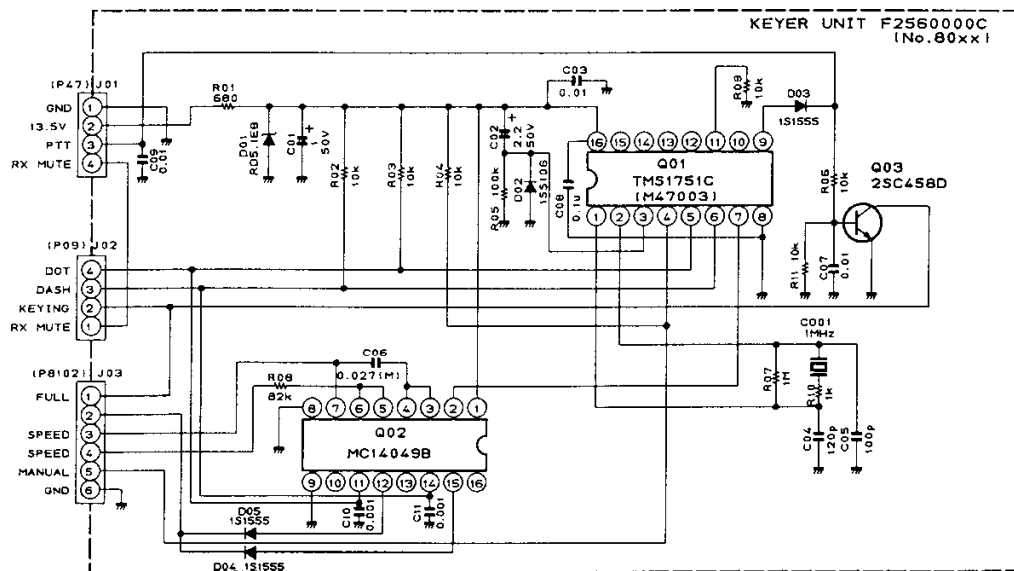
2SC458D
FOR SERVICE MANUALS
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www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554



KEYER UNIT VOLTAGE CHART

(DC VOLTS)

	E (S)		C (D)		B (G.)		REMARKS
	MARK	SPACE	MARK	SPACE	MARK	SPACE	
Q8003	0/0	0/0	0/0.1	65/128	0.7/0.7	0/0	SEMI/FULL

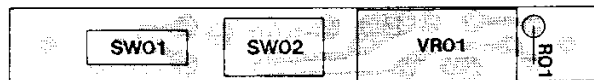
KEYER UNIT IC VOLTAGE CHART

(DC VOLTS)

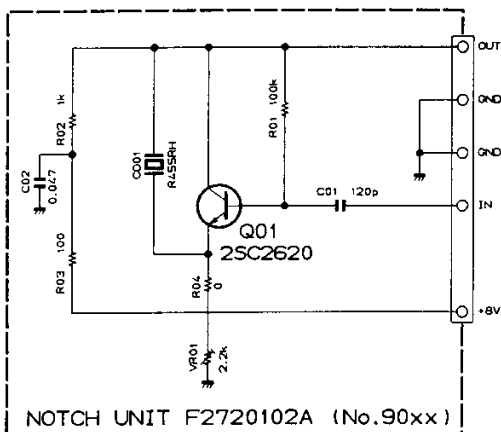
PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	REMARKS
Q8001	—	—	—	0	—	—	—	—	—	—	—	—	—	—	—	4.8	AUTO
Q8001	—	—	—	4.4	—	—	—	—	—	—	—	—	—	—	—	4.8	MANUAL
Q8001	—	—	—	—	—	—	—	—	0	—	0	—	—	—	—	4.8	SPACE
Q8001	—	—	—	—	—	—	—	—	4.8	—	4.7	—	—	—	—	4.8	MARK
Q8001	—	—	—	—	0	4.4	—	—	—	—	—	—	—	—	—	4.8	DOT
Q8001	—	—	—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

KEYER CONTROL UNIT

Component Side



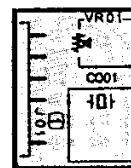
Solder Side



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

NOTCH UNIT

Component Side

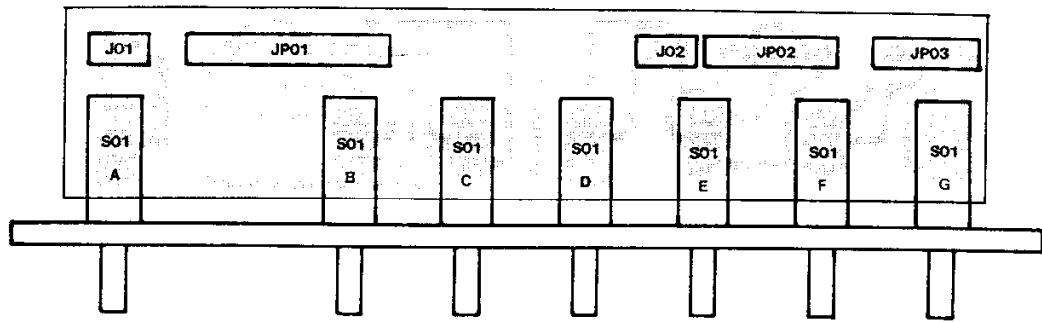


Solder Side

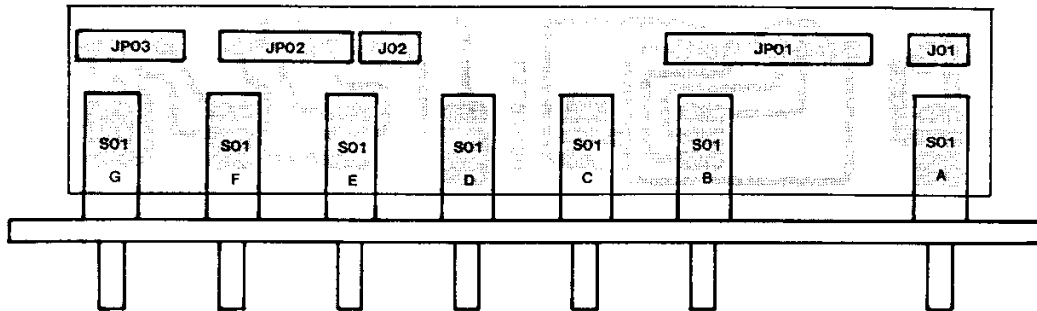


SWITCH UNIT A

Component Side



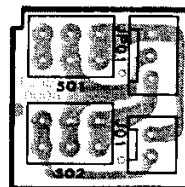
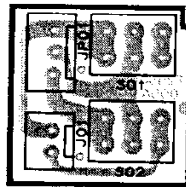
Solder Side



SWITCH UNIT B

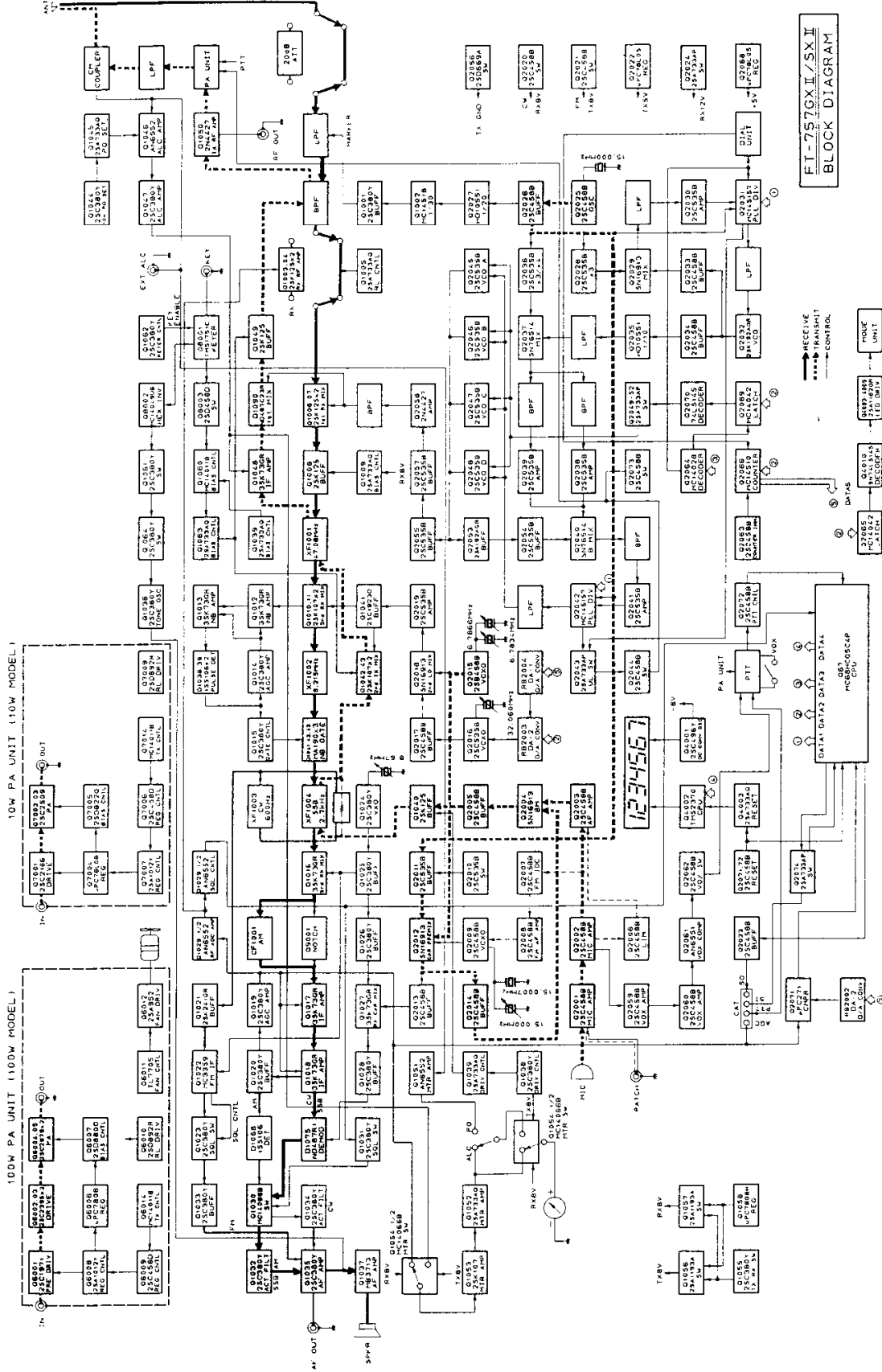
Component Side

Solder Side



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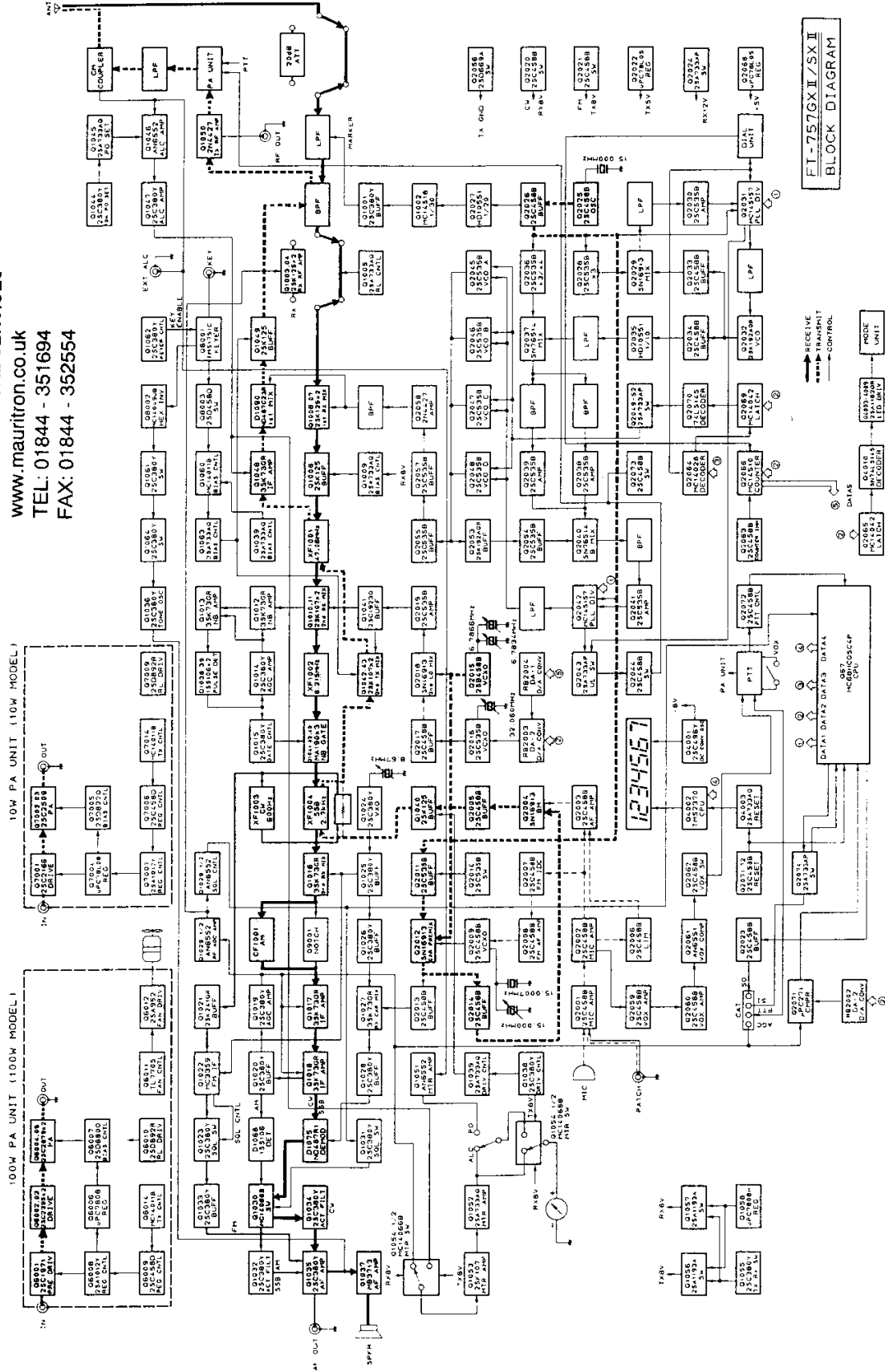




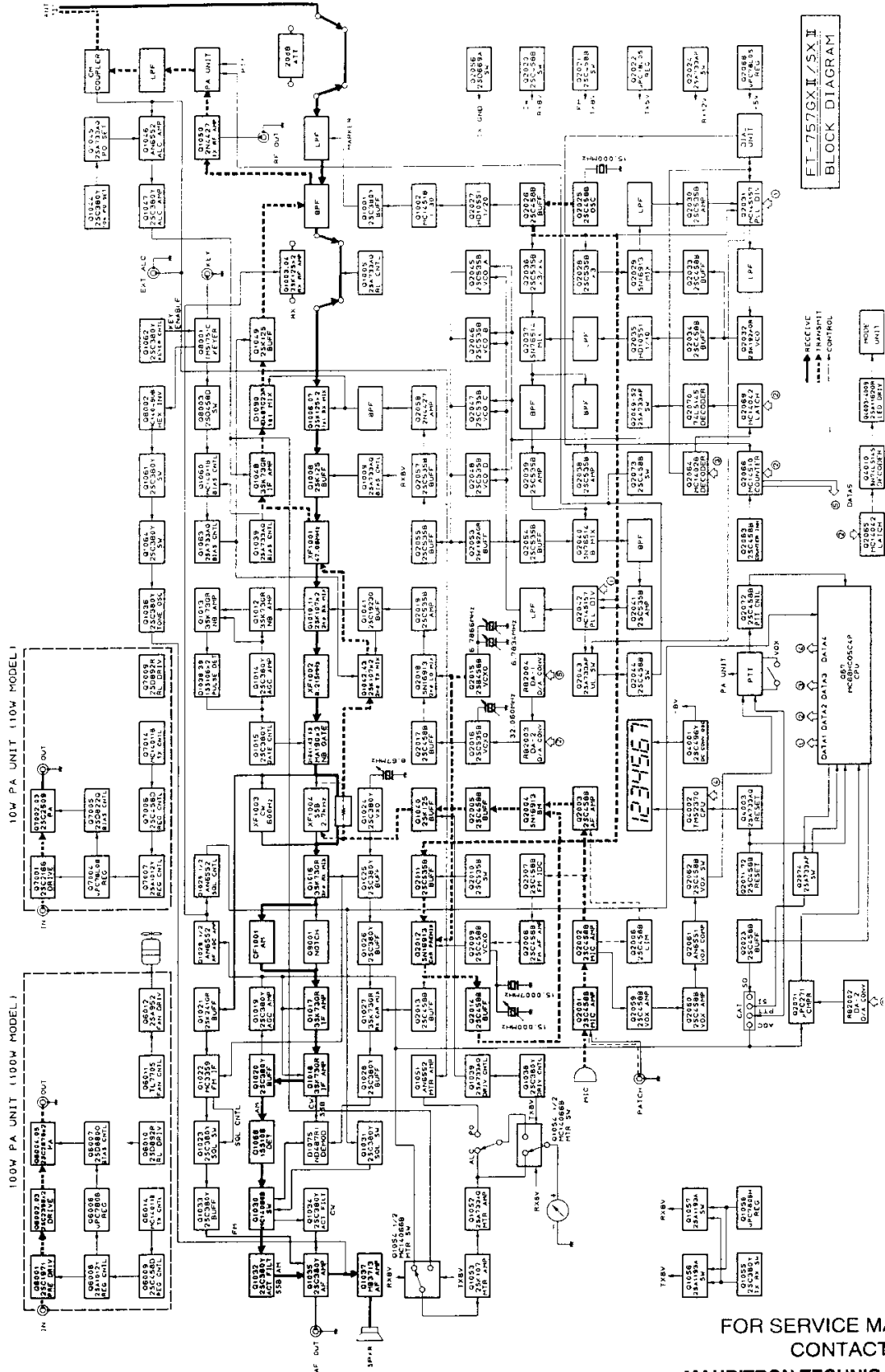
FT-757GX II/SX II
BLOCK DIAGRAM

SIGNAL PATHS : SSB

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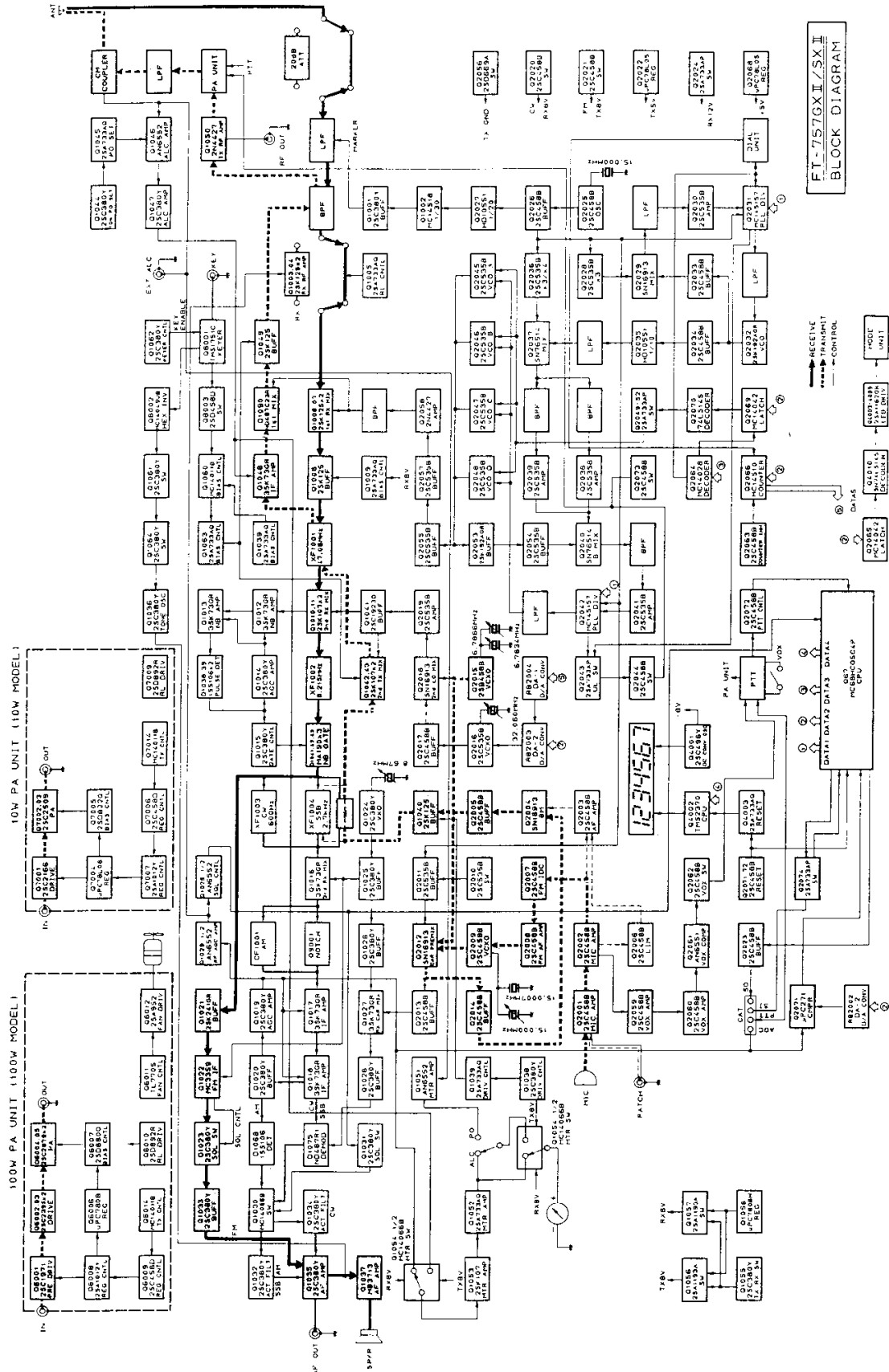


SIGNAL PATHS : CW



SIGNAL PATHS : AM

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FT-757GXII/SXII
BLOCK DIAGRAM

SIGNAL PATHS : FM

COMPONENT APPLICATIONS

MAIN CHASSIS

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

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

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	2SC1923O	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

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
D1003	"	"	Preset Switch
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 Cancellor
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
D1047	"	"	"	D1096	DSP-201	Surge Absorber	Protect
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
D1052	MA190	Si Diode	TX 1st IF T/R Sw (to Xtal Filters)	D1101	"	"	" (CW-W)
D1053	"	"	RX 2nd IF T/R Sw (from Xtal Filters)	D1102	"	"	" (SSB)
D1054	"	"	RX 3rd IF AM Filter Switch	D1103	"	"	AM Squelch Switch
D1055	"	"	"	D1104	HZ4B3	Zener Diode	RF AGC Threshold Set
D1056	"	"	RX 3rd IF Notch Unit Sw	D1105	MA190	Si Diode	Non-FM Squelch Hang Timer
D1057	"	"	"	D1106	IIZ3C1	Zener Diode	NB AGC Limiter
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 Selector (AM)	D1110	1SS53	"	INH TX Disable
D1062	"	"	" (FM)	D1111	HZ7B1L	"	-8V Regulate
D1063	"	"	CW-N Xtal Filter Sw	D1112	1SS83	"	TX RF Sw
D1064	"	"	FM Demodulator Activator Switch	D1113	1SS53	"	RX RF Sw
D1065	1SS106	Schottky Barrier Diode	RX AGC Detector	D1114	-	-	Not Used
D1066	"	"	"	D1115	1SS83	Si Diode	RX RF Sw
D1067	"	"	Forward Bias for AM Detector	D1116	"	"	TX RF Sw
D1068	"	"	RX AM Detector	XF1001	XF-47M-203-01	Crystal Filter	RX 1st IF Filter
D1069	"	"	RX FM Noise Detector	XF1002	8.2M20	"	" 2nd IF "
D1070	1SV50	Varactor Diode	IF Width Frequency Control	XF1003	XF8.2M-601-01	"	" " " (CW-N)
D1071	MA190	Si Diode	BFO Premixer Enable Sw (SSB)	XF1004	XF8.2M-272-01	"	" " " (SSB, CW-W)
D1072	"	"	CW BFO and AF Filter Sw (CW-W)	CF1001	LF-H6S	Ceramic Filter	RX 3rd IF Filter (AM)
D1073	"	"	" (CW-N)	CF1002	CFG455E1	"	(FM)
D1074	"	"	BFO Premixer Enable Sw (CW)	X1001	HC-18/U 8670kHz	Crystal	IF Width Oscillator
D1075	ND487R1-3R	Ring Module	RX SSB, CW Demodulator	LOCAL UNIT			
D1076	MA190	Si Diode	Reverse Voltage Protector (SCAN Line)	LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION
D1077	"	"	RX SSB/AM AF Filter Sw (SSB)	Q2001	2SC458B	NPN Si TR	TX MIC Amp
D1078	"	"	" (AM)	Q2002	"	"	"
D1079	"	"	RX SSB/AM AF Filter Switch	Q2003	"	"	TX AF Amp (SSB/AM)
D1080	"	"	RX FM AF Buffer Sw	Q2004	SN16193P	Mixer IC	TX SSB Balanced Modulator (also AM Mod)
D1081	"	"	RX CW AF Filter Sw	Q2005	2SC458B	NPN Si TR	TX 1st IF Buffer Amp
D1082	1SS53	Si Diode	Key Line Sw	Q2006	"	"	TX SSB PROC AF Limiter Amp
D1083	MV12	Varistor	Temperature Comp for ALC	Q2007	"	"	TX FM IDC
D1084	RD9.1EB2	Zener Diode	Rev ALC Latchup Protector	Q2008	"	"	TX FM AF Amp
D1085	MA190	Si Diode	Reverse EXT ALC Protector				



Q2009	"	"	15MHz VCXO (TX FM/CW)	Q2056	2SD699A	NPN Si TR	TX GND Control
Q2010	2SC535B	"	FM/CW TX Carrier Disable Sw	Q2057	2SC535B	NPN Si TR	1st RX/3rd TX LO Preamp
Q2011	"	"	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
Q2052	"	"	"(21.5 - 30MHz)	Q2055	"	"	Reference
Q2053	2SK192AGR	JFET	PLL2 VCO Feedback Buffer Amp	D2025	RD9.1EB3	Zener Diode	
Q2054	2SC535B	NPN Si TR	"				
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				Disable Switch
			(on CW)	D2080	"	"	Delay (Q2061) Rev Voltage Isolator
D2032	"	"	"(on FM)	D2081	RD6.2EB3	Zener Diode	VOX Clamp
D2033	"	"	USB Car VCXO Sw OR				
			(on USB)	D2082	MA190	Si Diode	Sidetone Delay Enable Switch
D2034	"	"	"(on CW)	D2083	"	"	FAST Enable Protector (for Q2064)
D2035	"	"	"(on AM)				
D2036	"	"	"(on FM)	D2084	1SS97	Schottky Barrier Diode	Backup BATTERY Protector
D2037	"	"	CPU Clock Reset Sw				
D2038	"	"	Rev Voltage Protector	D2085	"	"	5V Vcc Rev Voltage Protector
D2039	"	"	CAT PTT Isolator				
D2040	1SS106	Schottky Barrier Diode	INH Reverse Voltage Isolator	D2086	MA190	Si Diode	5V Vcc Isolator
D2041	10D10	Si Diode	Back Pulse Canceller	D2087	"	"	Scan Pulse Diode OR
D2042	RD5.1EB2	Zener Diode	Vcc Reg for Marker Divider				
D2043	FC53M5	Varactor Diode	34-39MHz VCO (PLL1)	D2088	"	"	PTT Jack Rev Voltage Protection for Q2064
D2044	RD5.1EB2	Zener Diode	Vcc Reg for PLL1 Output Divider	D2089	"	"	Dial Clock Enable
D2045	MA190	Si Diode	PLL Ref Triple In Sw	D2090	"	"	Scan Pulse Diode OR
D2046	"	"	PLL Ref Quadruple Input Switch	D2091	RD9.1EB3	Zener Diode	Counter Startup Threshold Set
D2047	"	"	45MHz PLL Ref Triple Output Switch	D2092	MA190	Si Diode	Sift Disable (Q2024)
D2048	"	"	60MHz PLL Ref Quadruple Out Sw	D2092	"	"	Switch Bias Shift Disable (Q2024)
D2049	"	"	41MHz PLL2 LO BPF Input Switch	D2093	"	"	Switch Bias
D2050	"	"	56MHz PLL2 LO BPF Input Switch	D2094	"	"	5V Vcc Rev Voltage Protect
D2051	"	"	41MHz PLL2 LO BPF Output Switch	D2095	"	"	PLL1 Unlock Diode OR
D2052	"	"	56MHz PLL2 LO BPF Output Switch	D2096	RD8.2EB3	Zener Diode	PLL2 Unlock Diode OR
D2053	SVC211SP	Varactor Diode	PLL 2 VCO A Control (0.15 - 7.5MHz)	D2097	MA190	Si Diode	CPU Startup Reset Threshold Set
D2054	"	"	" B Control (7.5 - 14.5MHz)	D2098	"	"	INH Sw Forward Bias
D2055	"	"	" C Control (14.5 - 21.5MHz)	D2099	"	"	"
D2056	"	"	" D Control (21.5 - 30.0MHz)	D2100	"	"	FM Shift Diode OR
D2057	MA190	Si Diode	" A Out Sw	D2101	MA190-TR	Si Diode	AM
D2058	"	"	" B "	D2102	MA190	"	78L05 Voltage UP
D2059	"	"	" C "	D2103	"	"	CW8V OR (CW-W)
D2060	"	"	" D "				" (CW-N)
D2061	"	"	PLL2 41MHz BPF OR (with VCO A on)	X2001	15.0007MHz	HC-18/U Crystal	CW BFO Carrier Oscillator
D2062	"	"	"(" B on)	X2002	15.000MHz	"	FM Carrier Oscillator
D2063	"	"	PLL2 56MHz BPF OR (with VCO C on)	X2003	6.7834MHz	"	USB Carrier Oscillator
D2064	"	"	"(" D on)	X2004	6.7866MHz	"	LSB Carrier Oscillator
D2065	"	"	Dec Band Data-to-VCO A Decoder OR	X2005	32.060MHz	HC-43/U	2nd LO and WIDTH VCXO
			"	X2006	15.000MHz	"	PLL Ref and AM Car Oscillator
D2066	"	"	Dec Band Data-to-VCO A Decoder OR				
D2067	"	"	"				
D2068	"	"	Dec Band Data-to-VCO A Decoder OR				
			" B "				
D2069	"	"	" B "				
D2070	"	"	" C "				
D2071	"	"	" C "				
D2072	"	"	" C "				

LPF UNIT

LOCA- NOMEN- TYPE APPLICATION
TION CLATURE

D3001	1S1555	Si Diode	Back Pulse Canceller
D3002	"	"	"
D3003	"	"	"
D3004	"	"	"
D3005	"	"	"
D3006	"	"	"



				DIAL UNIT			
LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION	LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION
D3007	1SS106	Schottky Barrier Diode	Rev ALC/SWR Detector				
D3008	"	"	Fwd ALC/SWR Detector				
D3009	"	"	Rev ALC/SWR Detector	Q5001	MC14011BCP	Quad NAND IC	Beeper Multivibrator
D3010	"	"	Fwd ALC/SWR Detector	Q5002	MC14584BCP	Hex Schmitt Trig IC	Pulse Shapers
D3011	"	"	RF Pickup Rectifier	Q5003	MC14071BCP	Quad OR IC	Up/Down Logic
D3012	1S1555	Si Diode	RF Pickup Detector Bias	Q5004	MC14071BCP	Dual 4 AND IC	"
D3013	"	"	Back Pulse Cancellor	Q5005	MC14013BCP	Dual "D" F-F	Up/Down Logic, Buzzer Switch
DISPLAY UNIT				D5001	1S1555	Si Diode	Tune Disable by Buzzer Diode OR
				D5002	"	"	Tune Disable by D LOCK Diode OR
				D5003	"	"	Buzzer Timer
LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION	100W PA UNIT			
Q4001	2SC496Y	NPN Si TR	DC-DC Converter Oscillator	LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION
Q4002	TMS2370	4-bit CPU	Display Control CPU				
Q4003	2SA1162GR	PNP Si Chip TR	CPU Reset Switch				
Q4004	"	"	MODE LED DRIVE	Q6001	2SC1971	NPN Si TR	Tx Predriver
Q4005	"	"	"	Q6002	2SC2395	"	Tx Driver
Q4006	"	"	"	Q6003	"	"	"
Q4007	"	"	"	Q6004	2SC2879	"	TX Final Amplifier
Q4008	"	"	"	Q6005	"	"	"
Q4009	"	"	"	Q6006	μPC7808H	Regulator IC	Final Bias Reg
Q4010	SN74LS145N	BCD to Decimal Decoder	MODE Data Decoder	Q6007	2SD880-O	NPN Si TR	"
Q4011	2SC2712GR	NPN Si Chip TR	CEN LED DRIVE	Q6008	2SA1012Y	PNP Si TR	TX13.5V Sw
				Q6009	2SC458D	NPN Si TR	TX 13.5V Sw Driver
D4001	1S1555	Si Diode	Display "CH" Diode OR (b-seg)	Q6010	2SD892R	"	Power ON Relay Driver
D4002	"	"	" (g-seg)	Q6011	TL7705	OP Amp IC	Fan Switching Comparator
D4003	1SS55	"	-30V Rectifier	Q6012	2SA952L	PNP Si TR	Fan Driver
D4004	HZ5C1	Zener Diode	-25V Bias	Q6013	MC14011BCP	Quad NAND IC	TX/RX Sw and Delay (for TX 13.5V)
D4005	RD30EB2	"	-30V Regulator	D6001	HZ3C1	Zener Diode	Predriver Bias Regulator
D4006	1S1555	Si Diode	-8V Rectifier	D6002	10D10	Si Diode	Temp Compensator (for Driver Bias)
D4007	HZ4B3	Zener Diode	-4V Regulator	D6003	"	"	"
D4008	1S1555	Si Diode	CLAR, M → VFO, VFO → M, PB2 Sw	D6004	"	"	Temp Compensator (for Final Amp Bias)
D4009	1SS181	Si Chip Diode	VFO ↔ M Sw	D6005	"	"	"
D4010	1SS555	"	CLAR Switch	D6006	1S1555	"	PTT T/R Delay Trigger
D4011	"	"	D LOCK Switch	D6007	"	"	PTT Delay Gate OR
D4012	1SS181	"	VFO A/B, M → VFO Switch	D6008	"	"	Reverse Voltage Isolator
D4013	"	"	VFO → M Switch	D6009	"	"	PTT 13.5V Diode OR
D4014	"	"	SPLIT, MR, VFO → M Clamp	D6010	"	"	PWR Relay Back Pulse Cancellor
D4015	-	-	Not Used	D6011	"	"	RX Mute Diode OR
D4016	"	"	MODE, INH Switch	D6012	"	"	PWR ON Rev Voltage Isolator
D4017	"	"	VFO ↔ M, MODE				
D4018	"	"	INH, IRQ, Clamp UP, DOWN, CLAR				
D4019	"	"	D LOCK, VFO A/B, M → VFO Clamp				
D4020	"	"	UP, DWN Switch				
D4021	GL9PR4	LED	SPLIT, MR Sw				
D4022	GL9PG4	"	ON AIR Indicator				
D4023	1S1554	Si Diode	GEN Indicator				
D4024	-	-	Reverse Voltage Isolator				
D4025	-	-	Not Used				
			Not Used				
				10W PA			
CO4001	CSB500E	Ceramic Resonator	500kHz Display CPU Clock Oscillator	LOCA-TION	NOMEN-CLATURE	TYPE	APPLICATION
				Q7001	2SC2166	NPN Si TR	TX Driver
				Q7002	2SC2509	"	TX Final Amplifier
				Q7003	"	"	"



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			RF UNIT
				F2719000A	Printed Circuit Board
				C027190A	PCB with Components
		SPEAKER			
SP1	M4090061	SS-70T			ICS
			Q1002	G1090108	MC14518BCP
			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)
				G3107331Q	2SA733AQ
	Q9000249	7.99-W-09 (M8307009)	Q1039	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			



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)
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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)	BLOCK CAPACITOR		
C1009, 1063, 1215	K22141904	" " " " 0.1µF (C3216D1E104MFA)	CB1001	K80000002	CA1036
C1013, 1059, 1062, 1069, 1132, 1138, 1181, 1183, 1184, 1241, 1246	K19149021	Semiconductor Ceramic 25WV 0.047µF (UAT08X473K-L45AE)	INDUCTORS		
C1113, 1187	K19149023	" " " " 0.068µF (UAT10X683K-L45AE)	L1001	L0021221	
C1019, 1058, 1154-1156, 1160, 1235, 1254	K19149025	" " " " 0.1µF (UAT10X104K-L45AE)	L1002	L0021222	
C1161, 1162, 1199, 1245	K50177102	Mylar 50WV 0.001µF (50F2U102M)	L1003	L1190024	FL5H221K 220µH
C1196	K50177222	" " " 0.0022µF (50F2U222M)	L1004, 1035, 1037, 1039, 1050, 1052	L1190175	LHL06NA101K 100µH
C1163, 1164, 1210, 1255, 1260	K50177103	" " " 0.01µF (50F2U103M)	L1008, 1036	L1190133	LAL04NA101K 100µH
C1140, 1147, 1204-1206, 1258	K50177223	" " " 0.022µF (50F2U223M)	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-1ROM 1µH
			L1034, 1038, 1045, 1049, 1051, 1057	L1190187	LHL06NA102K 1mH
			L1040-1043	L1190121	S4-101K 100µH
			L1044	L0021394	



R2006, 2009, 2016, 2028, 2042, 2069, 2273	J02245222	Carbon Film 1/4W SJ 2.2kΩ			BLOCK RESISTORS
			RB2001	J40900024	RK1/16B8K 10kΩ×8
R2050	J02245272	" " " " 2.7kΩ	RB2002, 2003	J40900023	DA-2
R2306	J24205332	Chip Resistor 1/10W 3.3kΩ	RB2004	J40900022	DA-1
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
R2032, 2035, 2040, 2072, 2251	J02245562	" " " " 5.6kΩ	VR2001	J51760502	GF06P-5K 5kΩB
R2296, 2314	J24205562	Chip Resistor 1/10W 5.6kΩ	VR2002, 2003, 2005	J51745103	H0651A013-10KB 10kΩB
R2278, 2301	J02245682	Carbon Film 1/4W SJ 6.8kΩ	VR2004	J51745223	H0651A015-22KB 22kΩB
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	VR2006	J51769504	PK502H504H0 500kΩB
			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
R2321, 2322	J01245103	" " " TJ 10kΩ	C2103, 2151, 2165, 2166	K00179001	Ceramic Disc 50W SL 0.5pF (DD104SL0R5C50)
R2315-2317, 2262	J24205103	Chip Resistor 1/10W 10kΩ	C2154, 2171, 2172, 2229	K00172010	" " " " 1pF (DD104SL010C50)
R2044	J02245123	Carbon Film 1/4W SJ 12kΩ	C2135	K02179001	" " " " CH 1pF (DD104CK010C50)
R2075, 2205	J02245153	" " " " 15kΩ	C2134	K02179002	" " " " 1.5pF (DD104CK1R5C50)
R2261	J24205223	Chip Resistor 1/10W 22kΩ	C2127	K02172020	" " " " 2pF (DD104CH020C50)
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	C2096	K00172020	" " " " SL 2pF (DD104SL020C50)
			C2067	K02172030	" " " " CH 3pF (DD104CH030C50)
			C2146	K00172040	" " " " SL 4pF (DD104SL040C50)
			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	C2144	K00175120	" " " " SL 12pF (DD104SL120J50)
R2259	J02245565	" " " " 5.6MΩ	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 (C2012B1H102MFA)
C2038, 2067	K02179010	" " " CH 24pF (DD104CH240J50)	C2036, 2198, 2199, 2228, 2256	K12171102	Ceramic Disc 50WV E 0.001µF (DD104E102P50)
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 (C2012B1H103MFA)
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)			
C2200	K06175820	" " " UJ 82pF (DD106UJ820J50)	C2265, 2266	K19149005	Semiconductor Ceramic 25WV 0.0022µF (UAT04X222K-L05AE)
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	" " " " 0.01µF (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	
C2206, 2213, 2220, 2227	K40129008	" 16WV 33µF (RE-16V330M)	S2001, 2002	N4090012	Shield Case
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	J2007-2009, 2017	P1090255	TMP-JA
CB2001	K80000001	CA1034 0.01×4	J2005	P1090348	S-Q3097-01 Black
CB2002, 2003	K80000003	CA1037 0.01×7	J2006	P1090296	S-Q3097-02 Red
			P2001 with wire	T9204722A	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		R5047912C	HEATSINK
L2006	L0021206B			R0100940B	Shield Case
L2008-2010	L1190180	LHL06NA271K 270µH		R0100950	Shield Cover
L2011	L0020746			R0102280	Shield Plate A
L0212	L1190017	FL5H102K 1mH		R0103060	Shield Plate B
L2013, 2014, 2025	L1190163	LHL06NA100K 10µH		R0103190A	Plate Spring
L2015, 2027	L1190151	LHL06NA1R0M 1µH			
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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LPF UNIT			C3060, 3061, 3063, 3064, 3066, 3067	K13179008	Ceramic Disc 50WV F 0.01µF (DD106F103Z50)
Symbol No.	Part No.	Name & Description			
	F2516000A	Printed Circuit Board	C3039-3050, 3058, 3059, 3068, 3069	K13179009	" " " " 0.047µF (DD110F473Z50)
	C025160A	PCB with Components			
			C3057	K13179007	" " 25WV 0.1µF (DD312BC104M25V)
		DIODES			
D3001-3006, 3013	G2015550	Si 1S1555			
D3007-3010	G2090244	Schottky Barrier 1SS106			TRIMMER CAPACITOR
			TC3001	K91000012	ECV1ZW10x32 10pF
		RESISTORS			
R3006, 3007	J01245220	Carbon Film 1/4W TJ 22Ω			INDUCTORS
R3005	J02245560	" " " " SJ 56Ω	L3001	L0021405	
R3004	J02245471	" " " " 470Ω	L3002	L0021406	
			L3003	L0020615	
			L3004	L0021433	
			L3005	L0020617	
			L3006	L0020618	
		CAPACITORS	L3007	L0021407	
C3003, 3025, 3036	K30275161	Dipped Mica 500WV 160pF (LCQ17161J5)	L3008	L0021408	
C3021	K30275201	" " " " 200pF (LCQ17201J5)	L3009	L0020621	
C3029	K30275221	" " " " 220pF (LCQ17221J5)	L3010	L0020622	
C3011	K30275241	" " " " 240pF (LCQ17241J5)	L3011	L0020623	
C3015, 3023	K30275331	" " " " 330pF (LCQ17331J5)	L3012	L0020624	
C3016	K30275361	" " " " 360pF (LCQ17361J5)	L3013	L0021347	
C3065	K30275431	" " " " 430pF (LCQ18431J5)	L3015, 3016	L1190017	FL5H-102K 1mH
C3006, 3010	K30275561	" " " " 560pF (LCQ18561J5)			
C3005, 3014, 3018	K30275681	" " " " 680pF (LCQ18681J5)			RELAYS
C3007	K30275821	" " " " 820pF (LCQ18821J5)	RL3001-3012	M1190050	DS1-S DC12V
C3001	K30275102	" " " " 1000pF (LCQ21102J5)	RL3013	M1190005	NR-HD-12V
C3004, 3012	K30279095	" " " " 1200pF (DM19D122J5)	RL3014	M1190051	FBR22D12-P
C3020, 3030	K00275100	Ceramic Disc 500WV SL 10pF (DD06SL100D500)			
C3031, 3037	K00275120	" " " " 12pF (DD06SL120J500)			
C3008	K00275180	" " " " 18pF (DD06SL180J500)			CONNECTORS
C3034	K00275330	" " " " 33pF (DD06SL330J500)	J3001	P1090255	TMP-JA
C3019, 3022, 3028	K00275360	" " " " 36pF (DD06SL360J500)	J3002	P0090192	B3B-XHA
C3002, 3033	K00275680	" " " " 68pF (DD09SL680J500)	P3001 (with wire)	T9311501	
C3038	K00275750	" " " " 75pF (DD09SL750J500)	P3002 "	T9204723	XHP-2
C3013	K00275820	" " " " 82pF (DD09SL820J500)	P3003 "	T9204724	XHP-7
C3024, 3026	K00275101	" " " " 100pF (DD09SL101J500)	P3004 "	T9204725A	XHP-2
C3017, 3032	K00275111	" " " " 110pF (DD09SL111J500)			
					TP TERMINAL
				Q5000025	Wrapping A
					DISPLAY UNIT
			Symbol No.	Part No.	Name & Description
				F2720101A	Printed Circuit Board
				C027200A	PCB with Components
					ICS
			Q4002	G1090546	TMS2370N2LH (MP30026)
			Q4010	G1090395	SN74LS145N



		TRANSISTORS		C4005	K40179011	Electrolytic 50WV 3.3μF (RE-50V3R3M)
Q4003-4009	G3111627G	2SA1162GRTE85R				
Q4001	G3304960Y	2SC496Y		C4002	K40179014	" " 10μF (RE-50V100M)
Q4011	G3327127G	2SC2712GRTE85R				
				C4004	K40129004	" 16WV 10μF (RE-16V100M)
				C4007	K40129007	" " 100μF (RE-16V101M)
		DIODES				
D4001, 4009, 4012-4014, 4016-4020	G2070001	Si	1SS181TE85R			
D4003	G2090132	"	1SS55			INDUCTORS
D4004	G2090188	Zener	HZ5C1	L4001, 4002	L1190123	S6-392K 3.9μH
D4005	G2090265	"	RD30EB2			
D4007	G2090266	"	HZ4B3			
D4020	G2090202	LED	LN410YP			
D4002, 4006, 4008, 4010, 4011	G2015550	Si	1S1555			DC-DC TRANSFORMER
D4021	G2090375	LED	GL9PR4 (Red)	T4001	L3030106	MPS-162
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 100Ω				
R4008	J01245561	"	" " " TJ 560Ω		Q5000037	TERMINAL TP-H
R4004	J02245152	"	" " " SJ 1.5kΩ			
R4007	J01245563	"	" " " TJ 56kΩ			
R4001	J24205100	Chip Resistor 1/10W 10Ω				
R4031	J24205271	"	" " " 270Ω			DIAL UNIT
R4012	J24205471	"	" " " 470Ω	Symbol No.	Part No.	Name & Description
R4025-4030	J24205821	"	" " " 820Ω		F2559000A	Printed Circuit Board
R4006	J24205332	"	" " " 3.3kΩ		C025590A	PCB with Components
R4005, 4011, 4013-4024	J24205103	"	" " " 10kΩ			
R4009	J24205104	"	" " " 100kΩ			
R4010	J24205274	"	" " " 270kΩ			ICS
				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 0.01μF (C2012B1H103MFA)	D5001-5003	G2015550	Si 1S1555 (1S1554, 1SS53)
C4011	K50177152	Mylar 50WV 0.0015μF (50F2U152M)				
C4001	K50177222	"	" " 0.0022μF (50F2U222M)			BUZZER
C4003	K50177153	"	" " 0.015μF (50F2U153M)	BZ5001	M4290001	EPB-RE25D02
C4010	K40179013	Electrolytic 50WV 1μF (RE-50V010M)				



			10W PA UNIT		
			Symbol No.	Part No.	Name & Description
C6002, 6003, 6026	K13179008	Ceramic Disc 50WV F 0.01µF (DD106F103Z50)			
C6001, 6004, 6008, 6010, 6014, 6017, 6021, 6023, 6025, 6028, 6029, 6031, 6036	K13179009	" " " " 0.047µF (DD110F473Z50)		F2555000A	Printed Circuit Board
				C025550A	PCB with Components
C6033, 6044	K19149025	Semiconductor Ceramic 25WV 0.1µF (UAT13X104-L46AE)	Q7004	G1090080	µPC78L08
			Q7008	G1090068	MC14011BCP
C6005, 6038, 6041	K50177103	Myiar 50WV 0.01µF (50F2U103M)			
C6043	K50177123	" " 0.012µF (50F2U123M)			TRANSISTORS
C6040	K50177153	" " 0.015µF (50F2U153M)	Q7007	G3110120Y	2SA1012Y
			Q7006	G3304580D	2SC458D
C6015, C6016	K50177683	" " 0.068µF (50F2U683M)	Q7001	G3321660	2SC2166
			Q7002, 7003	G3325090	2SC2509
C6022, 6024, 6027, 6030, 6032, 6035	K70140013	Tantalum 25WV 10µF (489D106X0025D1)	Q7005	G3408820Q	2SD882Q
			Q7009	G3408920R	2SD892R
C6037	K40179013	Electrolytic 50WV 1µF (RE-50V010M)			
C6039	K40129016	" 16WV 22µF (RE-16V220M)			DIODES
C6034	K40129021	" " 1000µF (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	150µH	R7008, 7010	J01275150	Carbon Film 1/2W TJ 15Ω
L6010	L1190009	FL4H-3R3M 3.3µH	R7007	J01275390	" " " " 39Ω
L6008	L0021432		R7025	J20336680	Metallic Film 2W 68Ω
			R7018	J02245101	Carbon Film 1/4W SJ 100Ω
			R7024	J01245121	" " " " TJ 120Ω
			R7009, 7011	J01275151	" " 1/2W " 150Ω
			R7005	J02245151	" " 1/4W SJ 150Ω
		TRANSFORMERS	R7001	J02245221	" " " " 220Ω
T6001	L0021402		R7012	J02245331	" " " " 330Ω
T6002	L0021403A		R7002	J02245471	" " " " 470Ω
T6003	L0021404		R7020	J01245471	" " " " TJ 470Ω
			R7003, 7004	J01245821	" " " " 820Ω
			R7006	J01275102	" " 1/2W " 1kΩ
		RELAY	R7021	J02245102	" " 1/4W SJ 1kΩ
RL6001	M1190055	JB1a-DC12V	R7026	J01215222	" " 1/8W TJ 2.2kΩ
			R7013, 7017, 7019	J02245103	" " 1/4W SJ 10kΩ
			R7022	J02245223	" " " " 22kΩ
			R7016	J02245154	" " " " 150kΩ
		CONNECTORS	R7014	J01245105	" " " " TJ 1MΩ
J6002, 6004, 6005, 6008	P0090191	B2B-XHA	R7023	J02245105	" " " " SJ 1MΩ
			R7015	J02245155	" " " " 1.5MΩ
J6006	P0090193	B4B-XHA			
J6003	P0090194	B5B-XHA			
J6001, 6007	P1090255	TMP-JA			
	Q5000011	TERMINAL C			POTENTIOMETER
			VR7001	J51727222	H1021A309-2.2KB 2.2kΩB
	R0100960A	HEATSINK			
	Q9000192	THERMAL CONDUCTOR			
	Q9000284	INSULATOR			
	R0100970	TERMINAL			CAPACITORS
			C7012	K30276680	Dipped Mica 500WV 68pF (LCQ12680K5)
			C7009, 7011	K30276221	" " " " 220pF (LCQ17221K5)



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C7007	K30276391	Dipped Mica 500WV 390pF (LCQ17391K5)	Q8001	G1090531	ICS TMS1751C
C7005	K10179038	Ceramic Disc 50WV 0.0047µF (DD108B472K50)	Q8002	G1090052	MC14049UBCP
C7013, 7023	K13179008	" " " F 0.01µF (DD106F103Z50)			
C7001, 7002, 7004, 7006, 7008, 7010, 7014, 7017, 7019, 7021, 7022, 7025, 7028, 7031	K13179009	" " " " 0.047µF (DD110F473Z50)	Q8003	G3304580D	TRANSISTOR 2SC458D
C7029	K50177103	Mylar 50WV 0.01µF (50F2U103M)	D8002	G2090244	DIODES Schottky Barrier 1SS106
C7030	K50177123	" " " 0.012µF (50F2U123M)	D8001	G2090167	Zener RD5.1EB
C7026	K50177153	" " " 0.015µF (50F2U153M)	D8003-8005	G2015550	Si 1S1555
C7015, 7016	K50177154	" " " 0.15µF (50F2U154M)			CERAMIC RESONATOR
C7020	K40149008	" 25WV 10µF (RE-25V100M)	CO8001	H7900140	CSA1.00MK
C7003	K40129004	Electrolytic 16WV 10µF (16RE10)			
C7024	K40129008	" " " 33µF (RE-16V330M)			RESISTORS
C7027	K40129021	" " " 1000µF (16R102S)	R8001	J01245681	Carbon Film 1/4W TJ 680Ω
			R8010	J01245102	" " " " 1kΩ
			R8002-8004, 8006, 8009, 8011	J01245103	" " " " 10kΩ
			R8008	J01245823	" " " " 82kΩ
			R8005	J01245104	" " " " 100kΩ
			R8007	J01245105	" " " " 1MΩ
		INDUCTORS			
L7001	L1190027	FL5H-390K 39µH			
L7002	L1190005	FL4H-1R0M 1µH			
L7003, 7006	L1020032				
L7004	L1020015				CAPACITORS
L7005	L1020666		C8005	K00175101	Ceramic Disc 50WV SL 100pF (DD105SL101J50)
			C8004	K00175121	" " " " 120pF (DD105SL121J50)
		TRANSFORMERS	C8003, 8007, 8009, 8010, 8011	K13179008	" " " " F 0.01µF (DD106F103Z50)
T7001	L0020789A		C8008	K23170032	" " " " 0.1µF (D33Y5V1H104Z51)
T7002	L0020833A		C8006	K50177273	Mylar 50WV 0.027µF (50F2U273M)
T7003	L0020834A		C8001	K40179013	Electrolytic 50WV 1µF (RE-50V010M)
		RELAY	C8002	K40179009	" " " 2.2µF (RE-50V2R2M)
RL7001	M1190054	JB1-DC12V			
		CONNECTORS			
J7001, 7002	P1090255	TMP-JA			
J7004, 7005, 7007	P0090191	B2B-XHA			
J7006	P0090193	B4B-XHA			
J7003	P0090194	B5B-XHA			CONNECTORS
			J8001, 8002	P0090205	S4B-XHA
			J8003	P0090207	S6B-XHA
		R0103760			HEATSINK
		Q9000192			THERMAL CONDUCTOR
		R0100970			TERMINAL
					KEYER CONTROL UNIT
			Symbol No.	Part No.	Name & Description
				F2561000	Printed Circuit Board
				C025610A	PCB with Components
Symbol No.	Part No.	Name & Description			
	F2560000C	Printed Circuit Board			
	C025600A	PCB with Components			



RESISTOR			NOTCH UNIT		
Symbol No.	Part No.	Name & Description	Symbol No.	Part No.	Name & Description
R8101	J00215101	Carbon Film 1/8W VJ 100Ω		F2720102A	PCB
				C027200A	PCB with Components
POTENTIOMETER					
VR8101	J64800002	S1021G901-250KBX2			TRANSISTOR
			Q9001	G3326207B	2SC2620QBTR
SWITCHES			CERAMIC RESONATOR		
S8101	N6090041	SSS312089	C09001	H7900340	R455RH
S8102	N6090047	SSS322			
			RESISTORS		
			R9005	J01215331	Carbon Film 1/8W TJ 330Ω
CONNECTORS			R9003	J24205101	Chip Resistor 1/10W 100Ω
P8101 (with wire)	T9204730B	XHP-2	R9001	J24205104	" " " 100kΩ
P8102 "	T9204731	XHP-6	R9004	J24205000	Chip Jumper
			POTENTIOMETER		
			VR9001	J50770222	H0652A009-2.2kΩ 2.2kΩB
SWITCH UNIT A					
Symbol No.	Part No.	Name & Description	CAPACITORS		
	F2557000	Printed Circuit Board	C9001	K22170137	Chip Ceramic 50WV SL 120pF
	C025570A	PCB with Components	C9002	K22141003	" " " F 0.047μF
			CONNECTOR		
S8201	N4090084	SUJ71A	J9001	P0090097	5049-05A
CONNECTORS			ACCESSORIES		
J8201, 8202	P0090191	B2B-XHA			
JP8201 (with wire)	T9204732B	5395-08	Symbol No.	Part No.	Name & Description
JP8202 "	T9204733B	5395-05		T9014900	DC POWER CORD
JP8203 "	T9204734	5395-04		P1090042	Plug
				Q2000001	Fuse Holder
			FUSE		
SWITCH UNIT B				Q0000009	20A FT-757GX II
Symbol No.	Part No.	Name & Description		Q0000012	6A FT-757SX II
	F2558000A	Printed Circuit Board			
	C025580A	PCB with Component			
			FOR SERVICE MANUALS		
			CONTACT:		
				P0090008	KEY PLUG SH3603
S8301, 8302	N4090083	SPJ222D	MAURITRON TECHNICAL SERVICES www.mauritron.co.uk TEL: 01844 - 351694 FAX: 01844 - 352554		
				P0090018	RCA PLUG STP-58
CONNECTORS					
J8301	P0090191	B2B-XHA			
P8301 (with wire)	T9204735	5395-03			



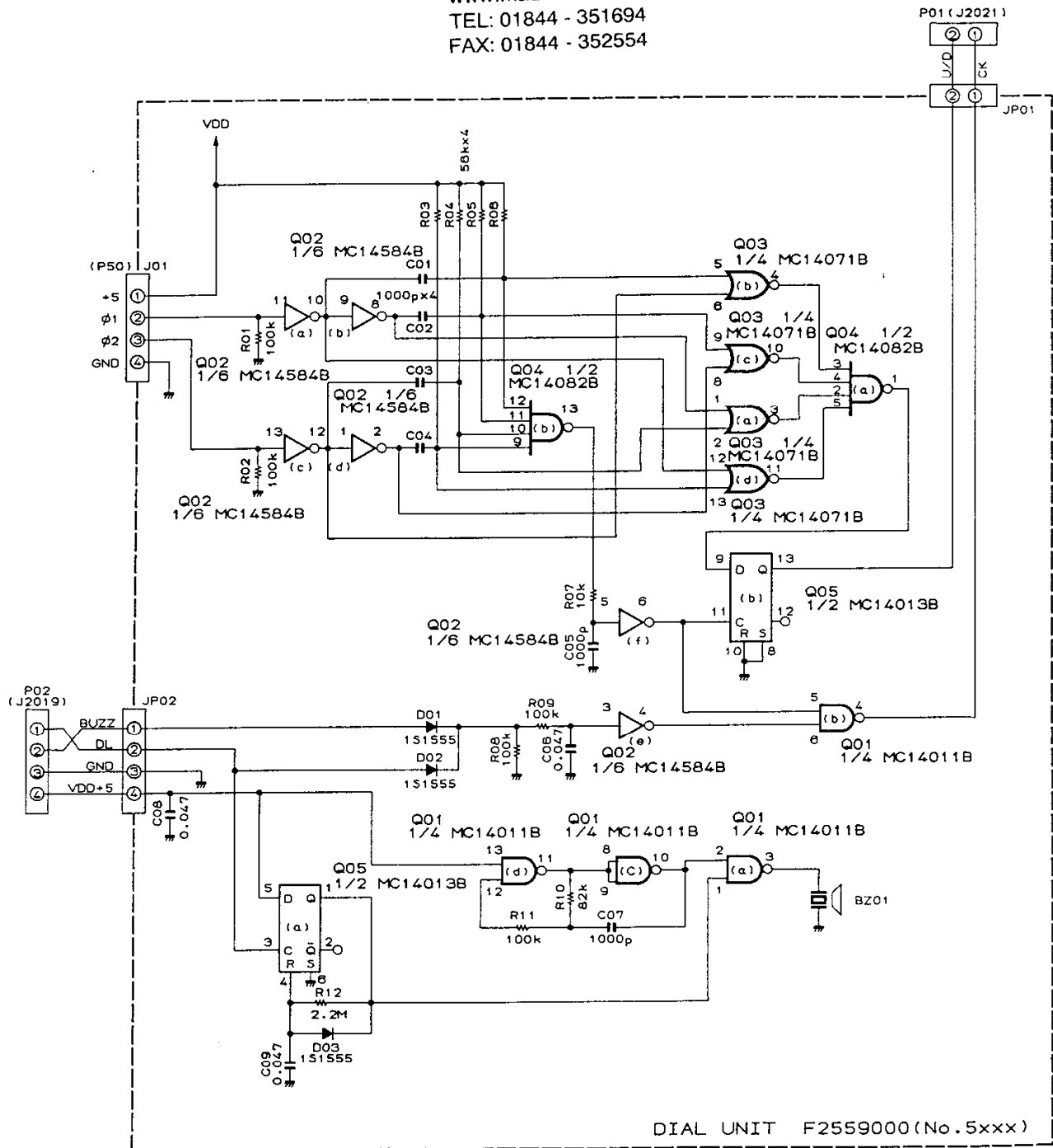
FP-757HD PARTS LIST

MAIN CHASSIS				JACK	
Symbol No.	Part No.	Description		P0090093	XG-9242 (FAN)
		TRANSISTORS			
Q1-3	G340717007	2SD717O or Y			PLUG
				P1090140	PJ-2 (FAN)
		DIODE			THERMAL SWITCH
D1	G2090121	S2SVB10	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 μF (ECK-DAL103PE)		F0002156	Printed Circuit Board
				C021561A	PCB with Components
C6	K13179009	" " 50 WV 0.047 μF (DD110F473Z50V)			FET
C3-5	K43140005	Electrolytic 25 WV 33000 μF (25LE33000)	Q101	G3801920B	2SK192BL
		POWER TRANSFORMER			TRANSISTORS
PT1	L3030081A		Q103	G3109500Y	2SA950Y
			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 ½W 27 Ω VJ
SW1	N2090024	8H2011	R101	J02245560	¼W 56 Ω SJ
	S6000026	Switch lever	R102	J02245821	" " 820 Ω "
			R105	J02245222	" " 2.2 kΩ "
		OUTPUT TERMINALS	R103,104	J02245332	" " 3.3 kΩ "
	Q5000044	T1 (Red)			
	Q5000045	T1 (Black)			POTENTIOMETER
	T9203030D	OUTPUT CABLE	VR101	J50735472	H1022A 311-4.7KB 4.7 kΩB
		FUSES			CAPACITORS
F1	Q0000012	6A (100-117 VAC)	C104	K50177223	Mylar 50 WV 0.022 μF (50F2U223M)
F1	Q0000004	3A (200-234 VAC)	C103	K50177473	" " 0.047 μF (50F2U473M)
F2	Q0000033	25A (MF-60) DC	C101	K40149010	Electrolytic 25 WV 330 μF (25RE330)
		FUSE HOLDERS			
FH1	P20000012	SN2059	C102,105	K40129011	" 16 WV 1000 μF (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)		T9013284	3 wire, 2 prong EU plug(YFC-09K)
	Q6000014	1L5PS (3-0-2)			SPARE FUSES
		FAN/MOTOR			Q0000012 6A 100V-117VAC
	M2090006	FBS-08A12LZNA			Q0000004 3A 200V-234VAC
	R7080690	FAN PACKING			Q0000033 25A DC



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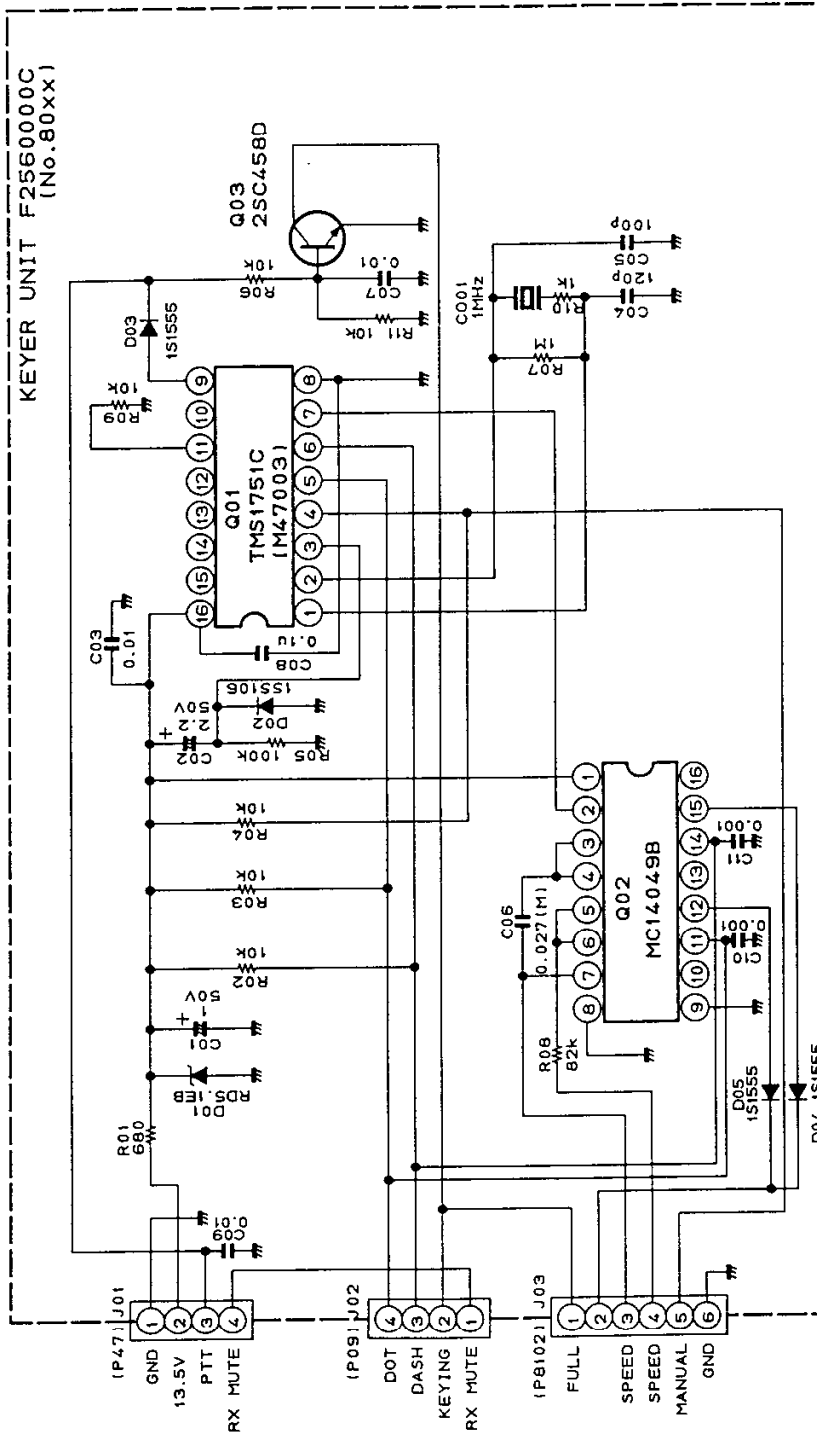
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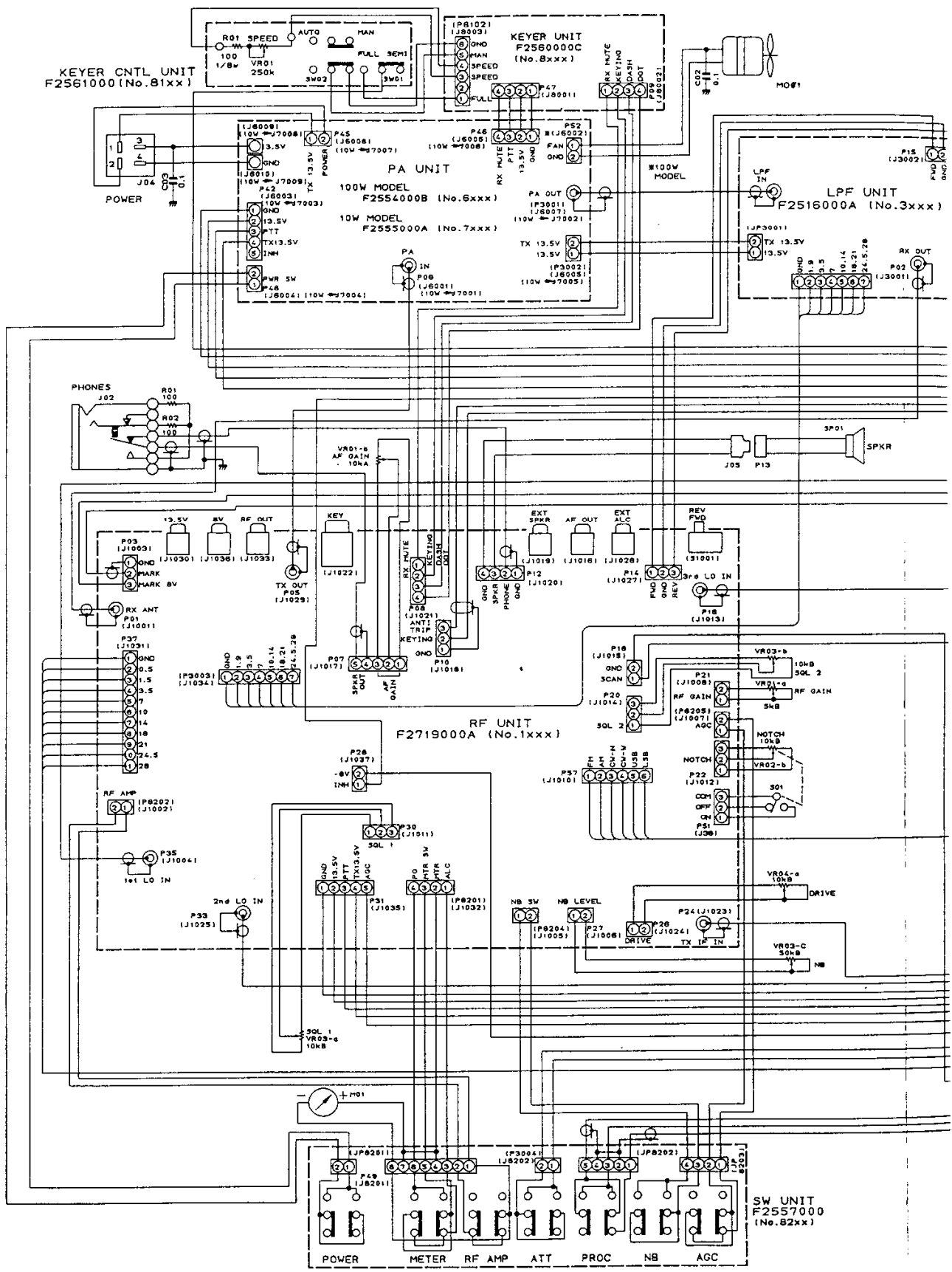


DIAL UNIT F2559000 (No. 5xxx)



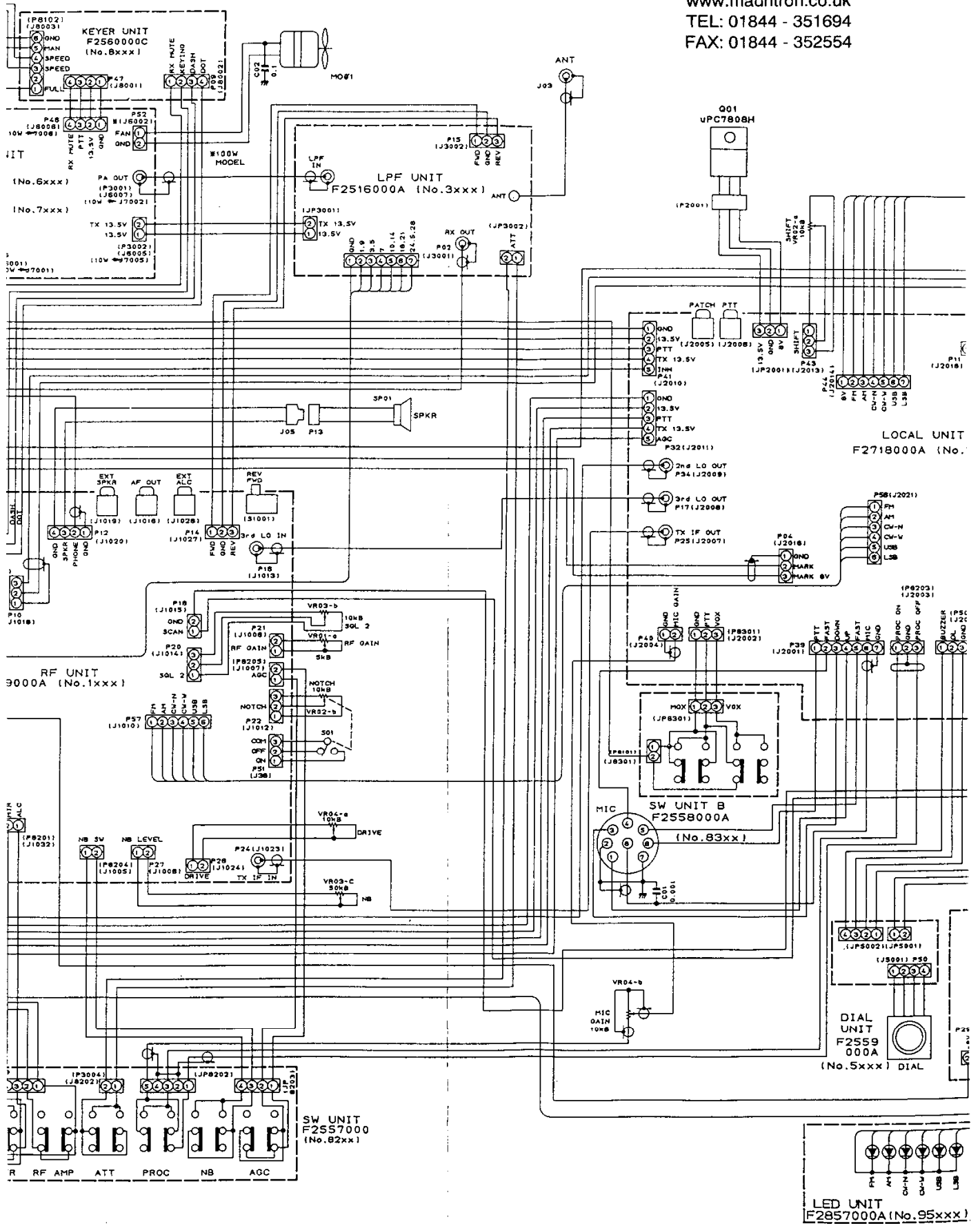
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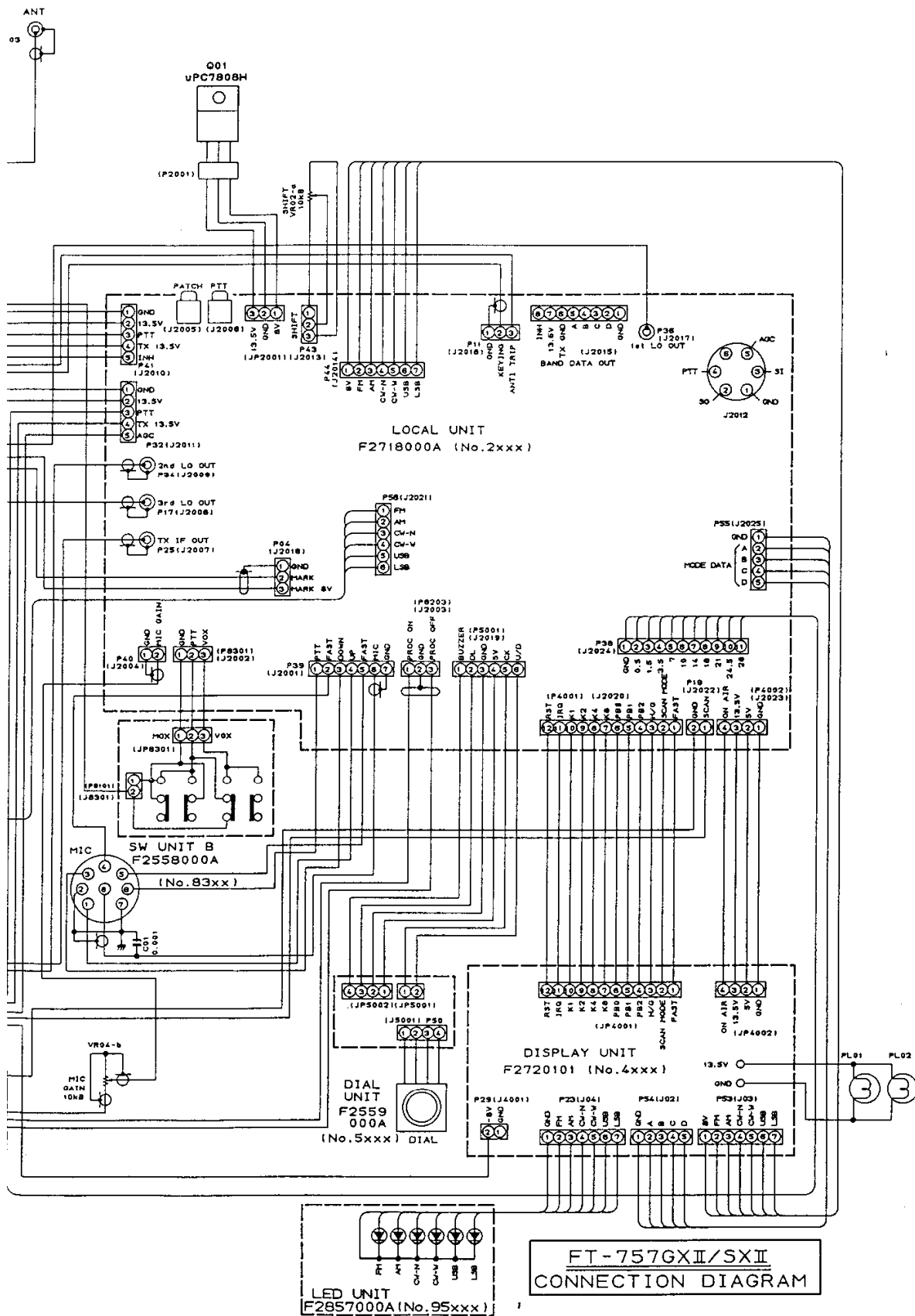


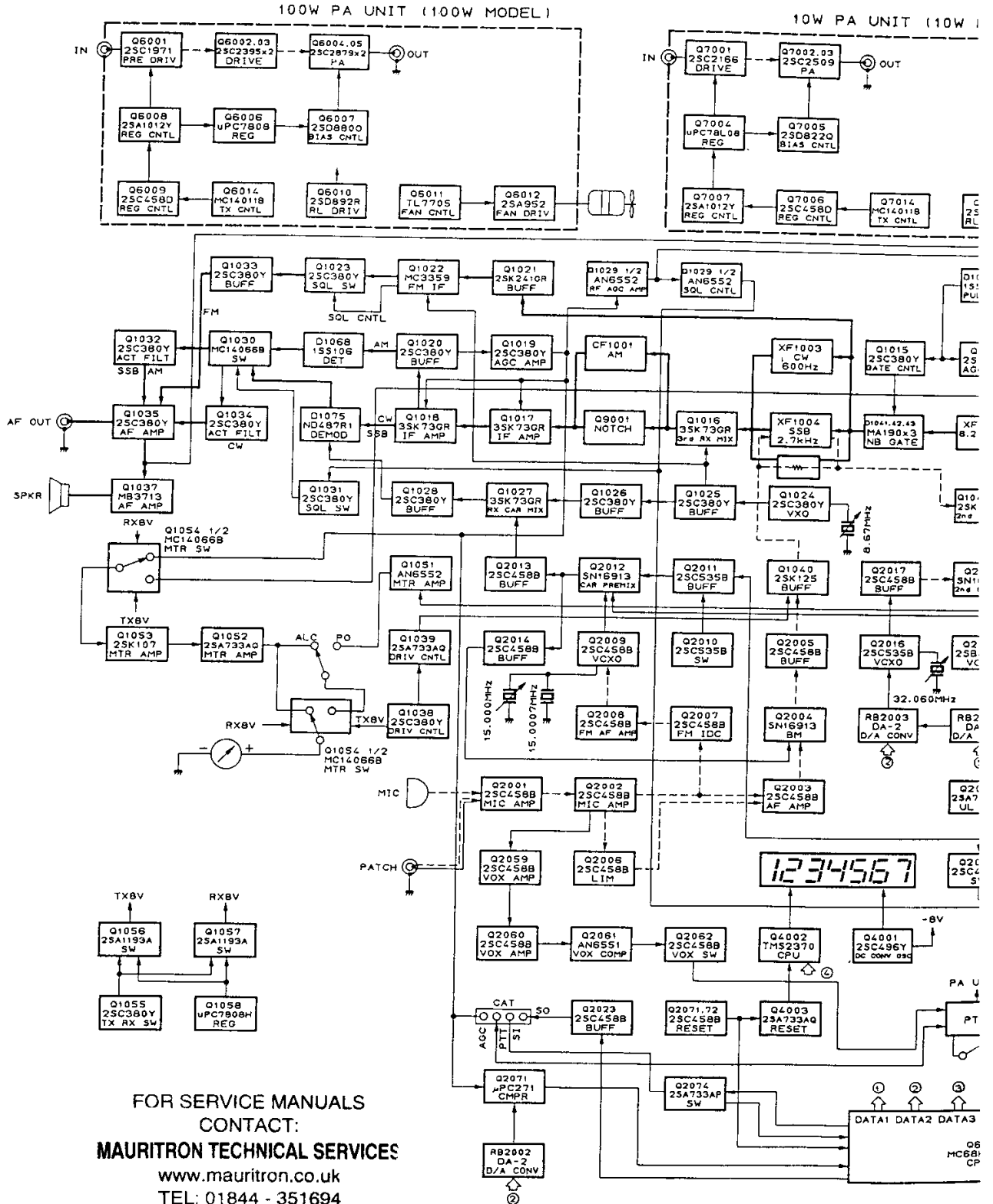


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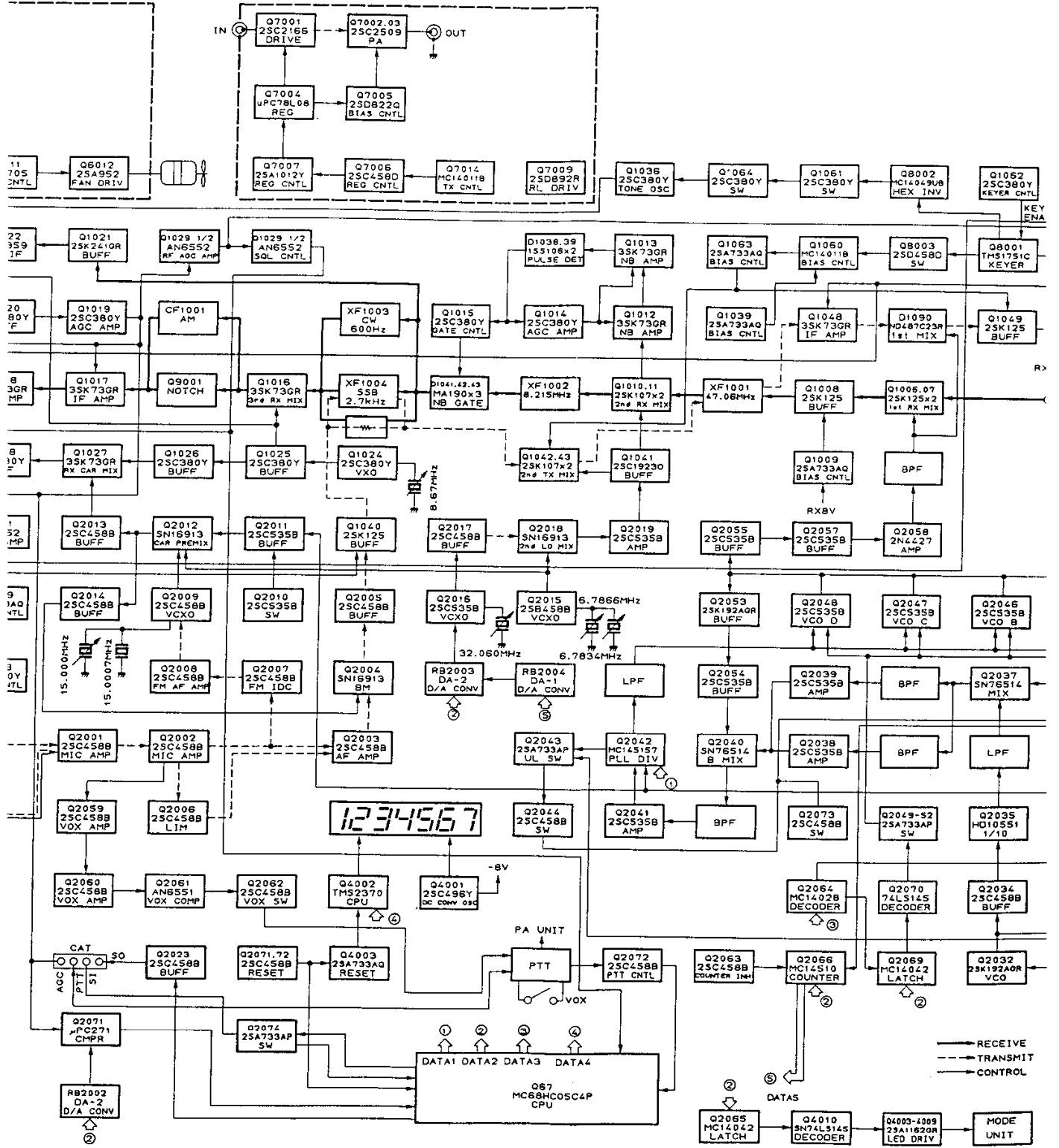


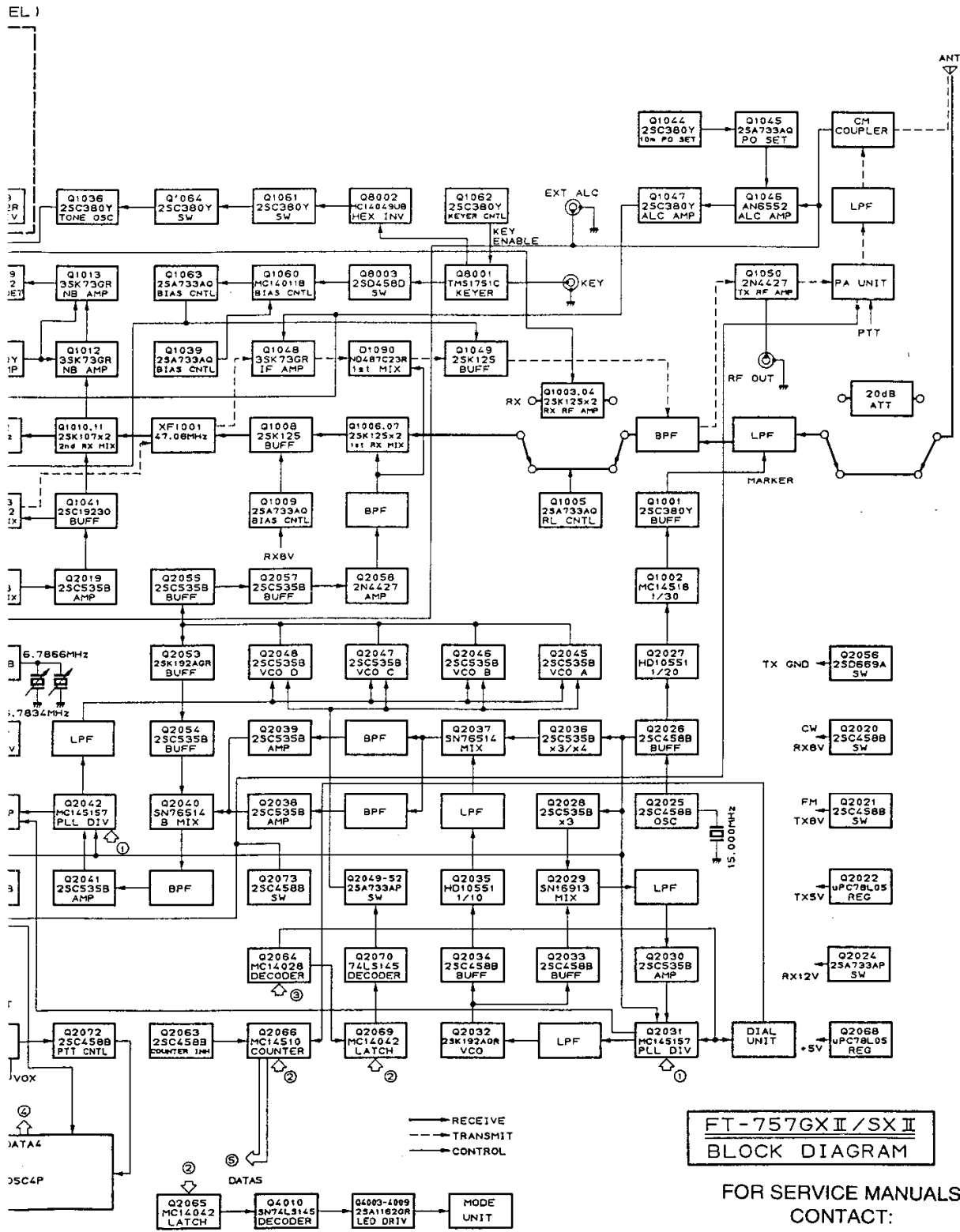
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100W MODEL)

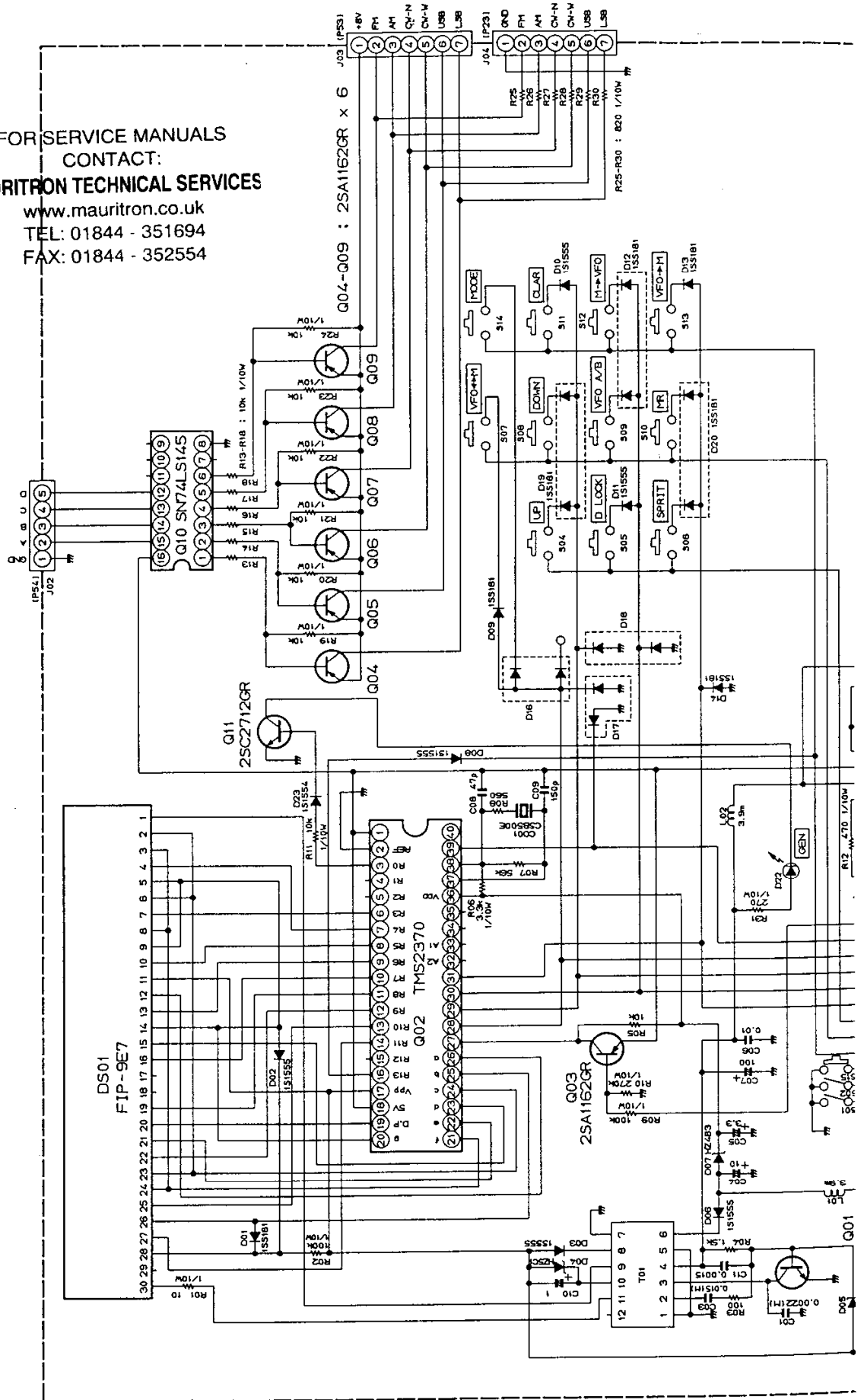
10W PA UNIT (10W MODEL)





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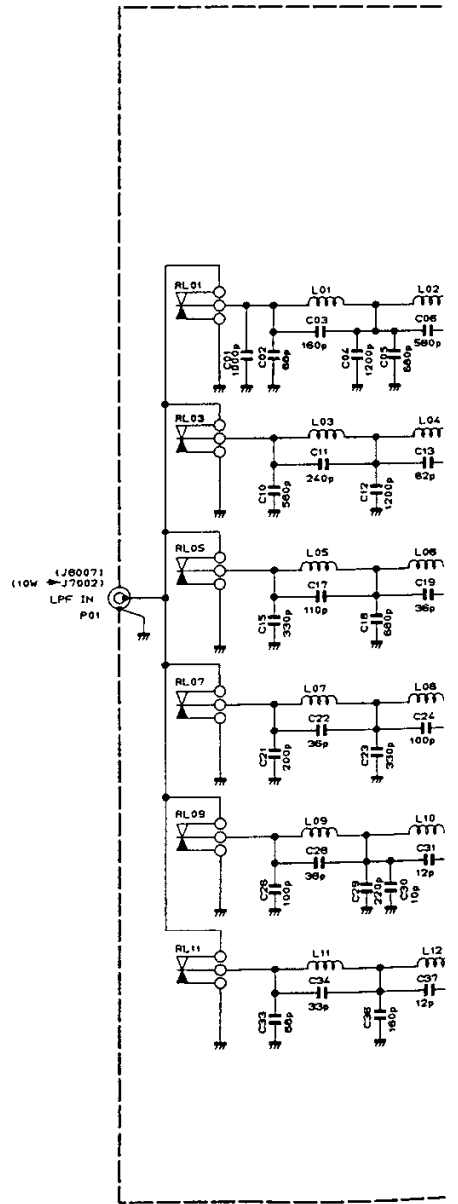
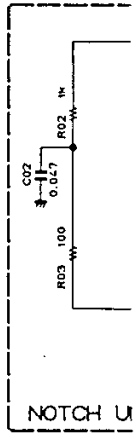
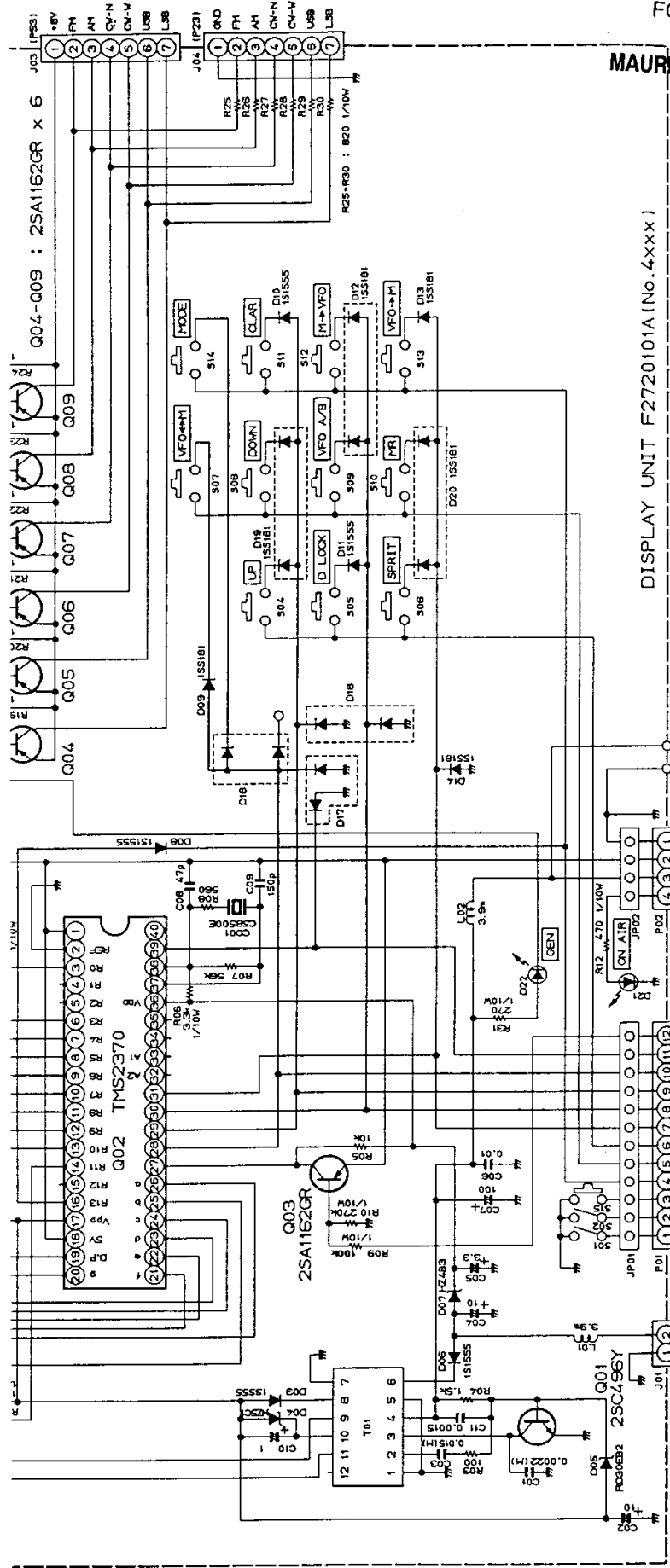
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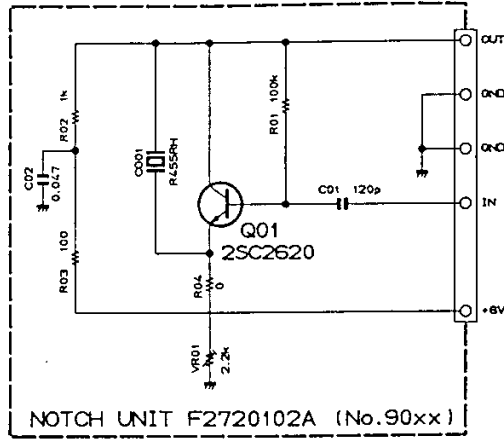
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DISPLAY UNIT F2720101A (No. 4-xxx)

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

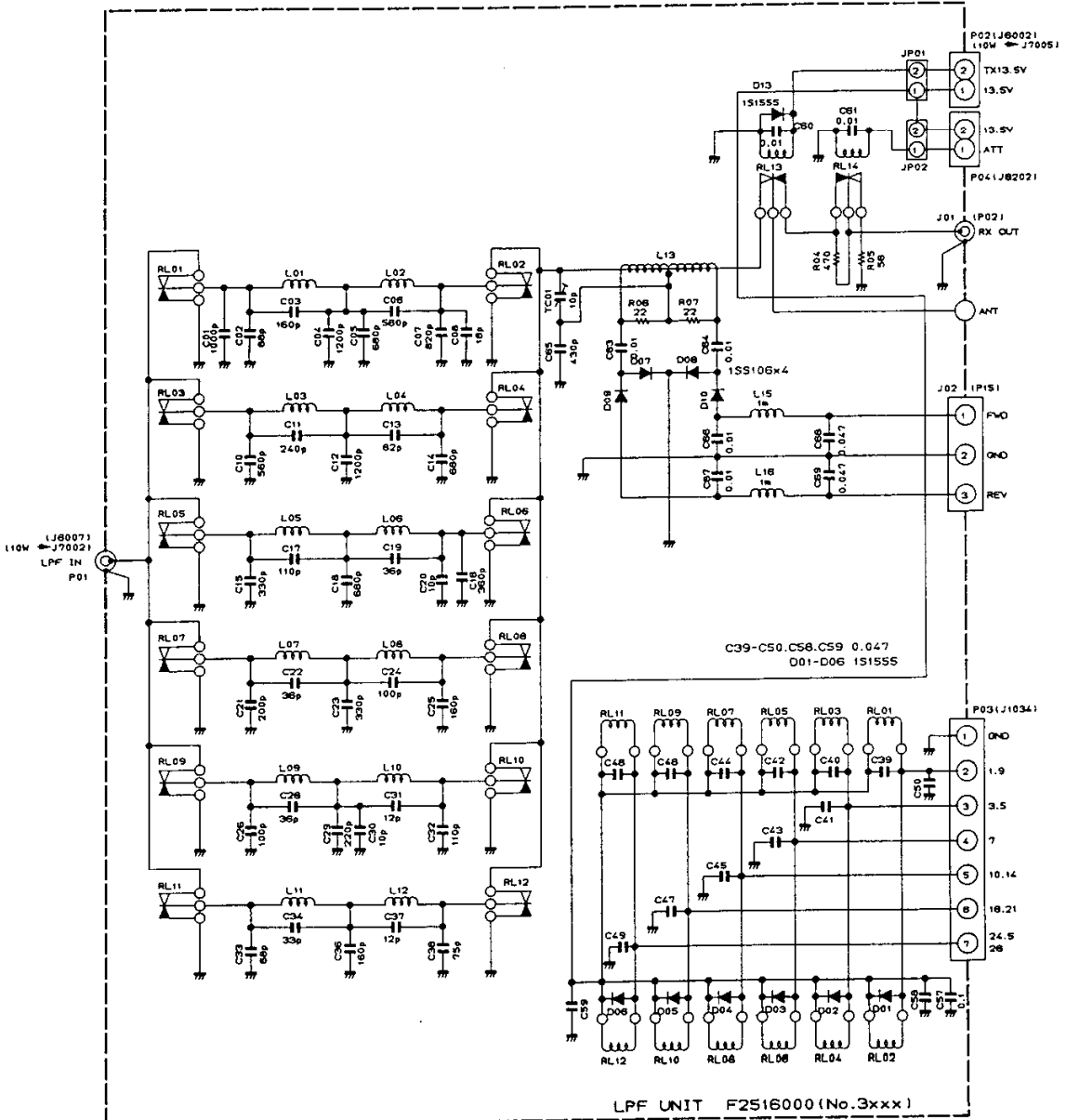


RESISTOR VALUES ARE IN Ω, 1/4W ;
 CAPACITOR VALUES ARE IN μF, 50V ;
 INDUCTOR VALUES ARE IN H ; UNLESS OTHERWISE NOTED,
 (M) CAPACITORS ARE POLYESTER FILM, 50V.



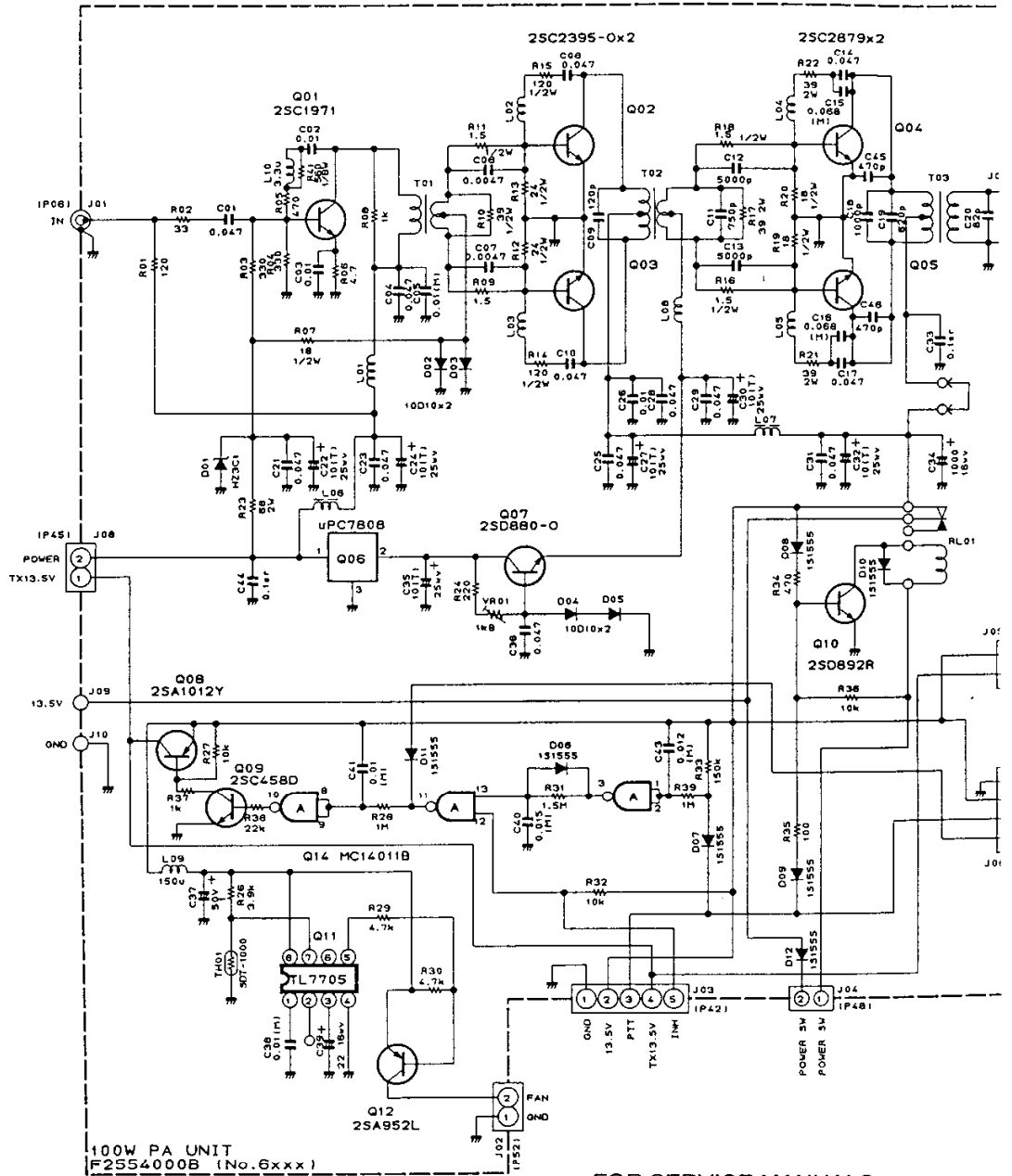
NOTCH UNIT F2720102A (No.90xx)

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



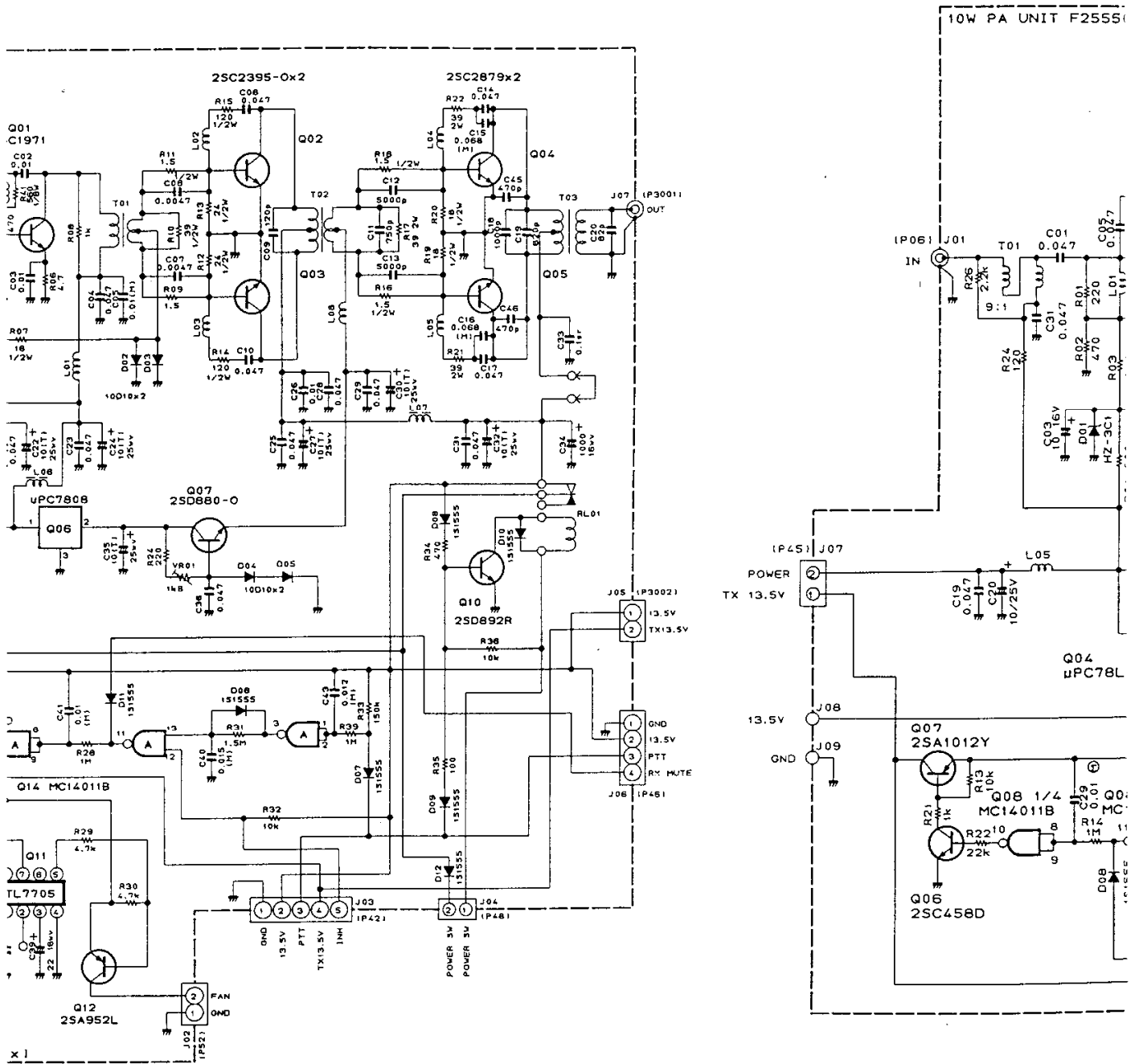
LPF UNIT F2516000 (No.3xxx)

TRP
 TR0
 GND
 S1
 13.5V
 AIR
 RST
 K1
 K2
 K3
 K6
 P80
 P81
 P82
 H/O
 SCAN MODE
 FAST
 GND
 -BY



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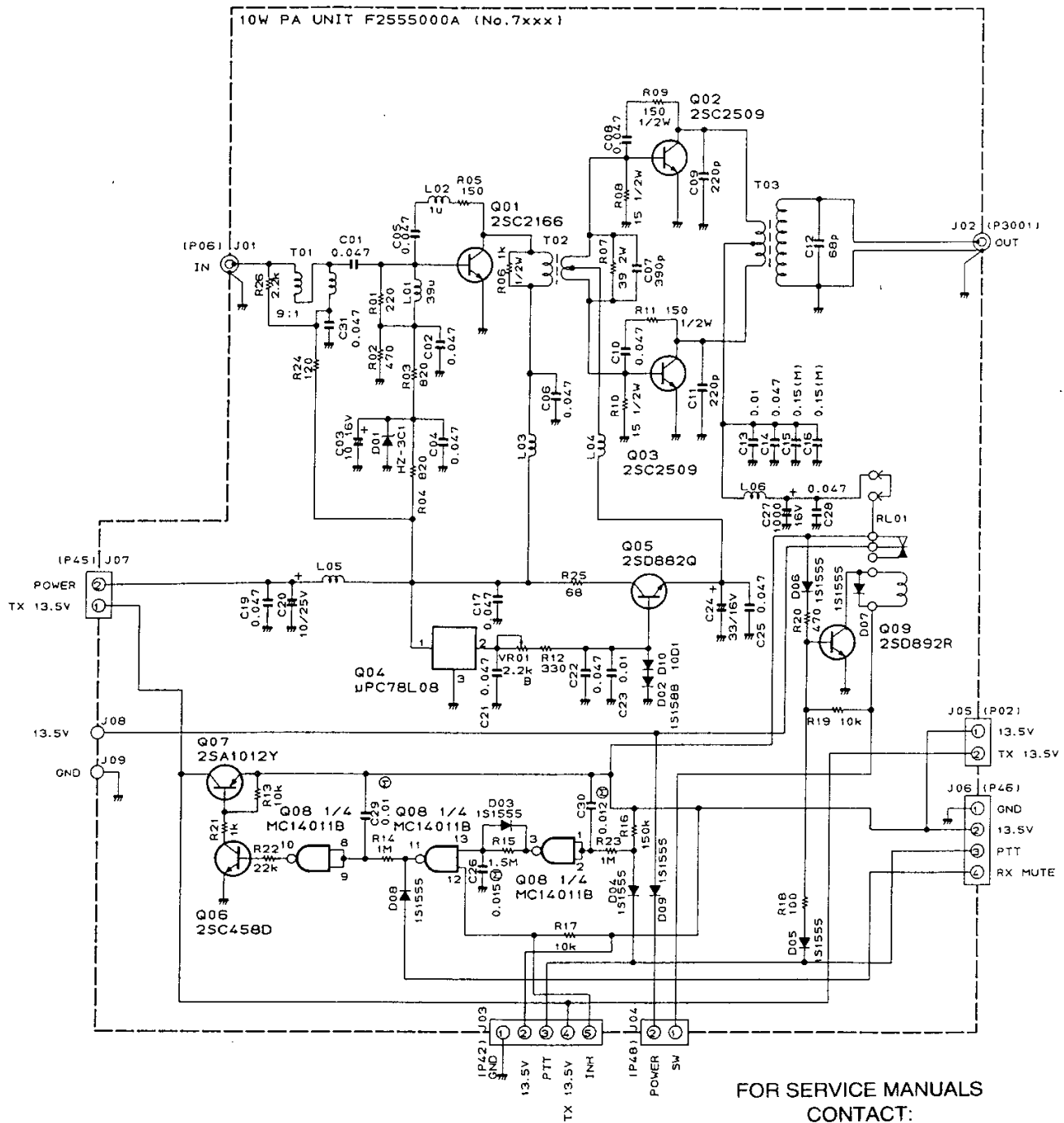
10W PA UNIT F2555000A (No.7xxx1)

311

1.5V

GND

MUTE



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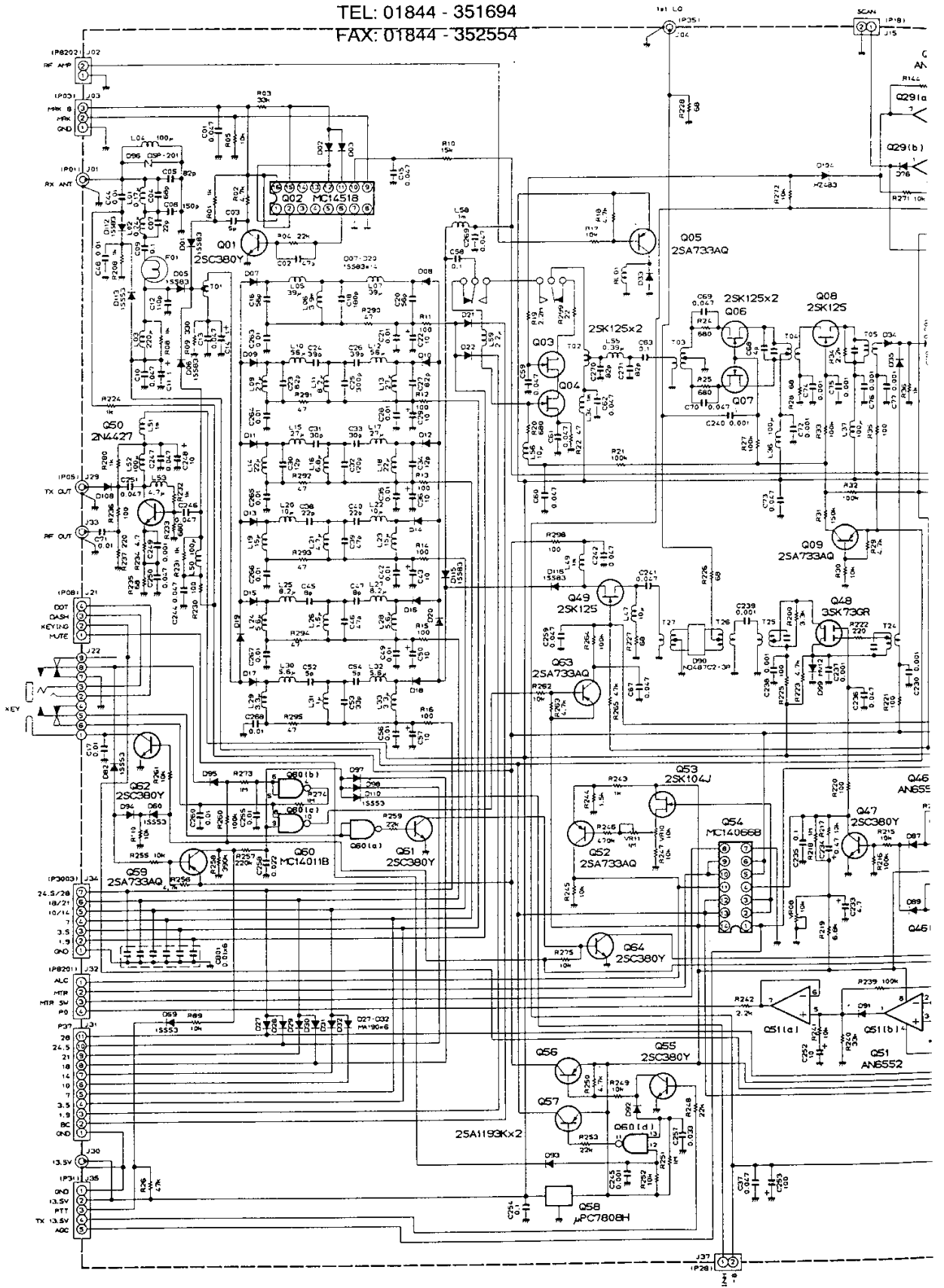


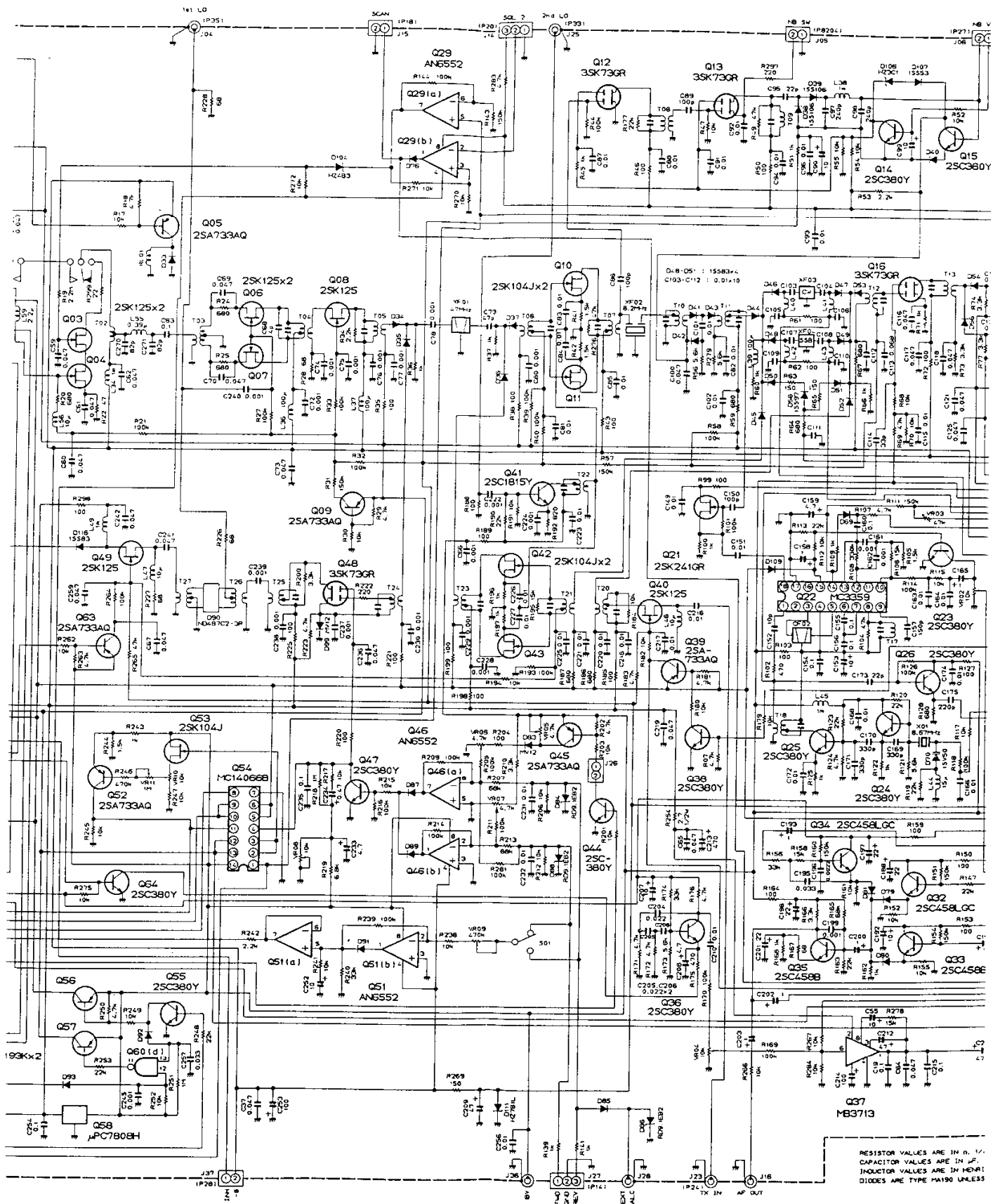
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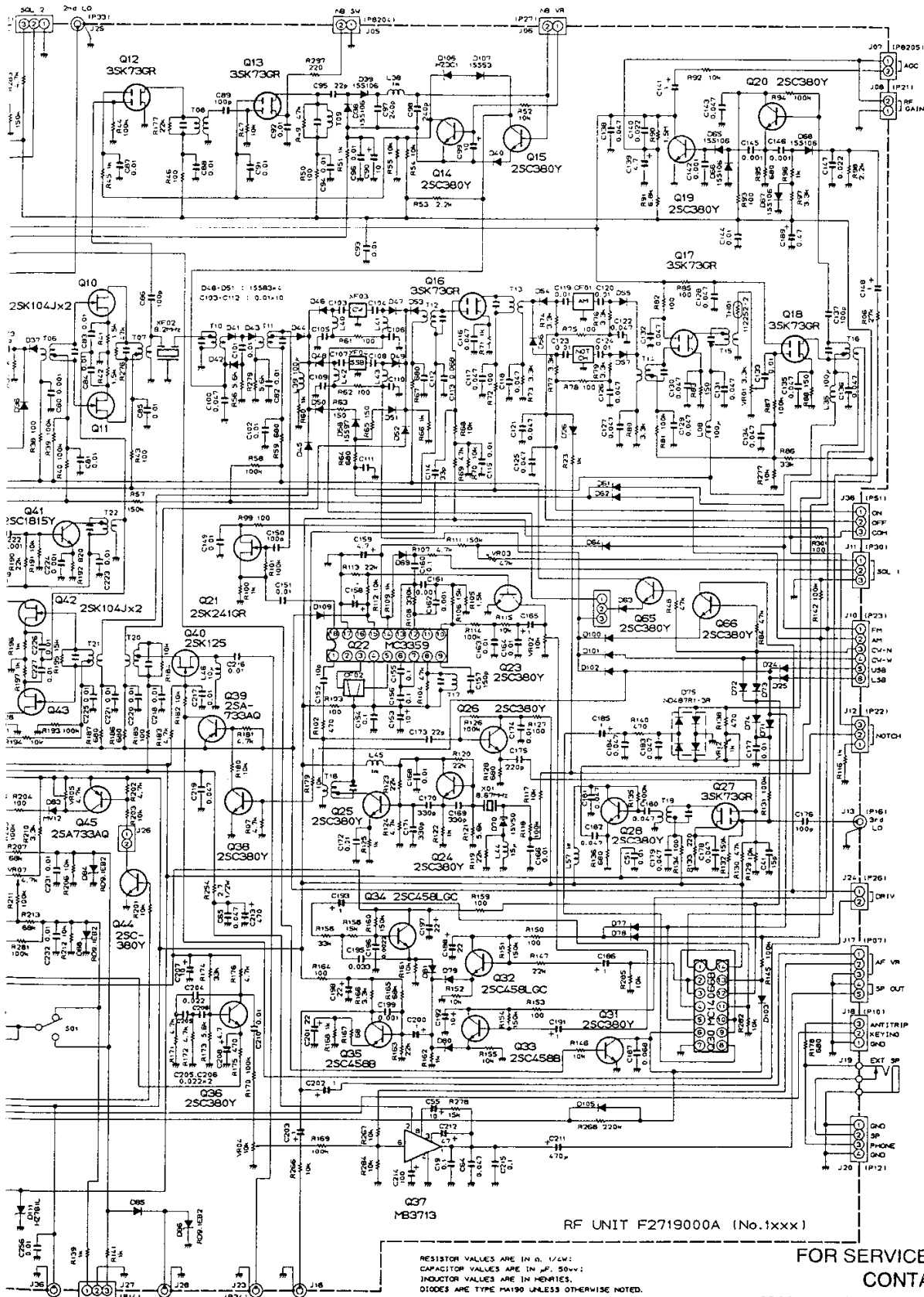
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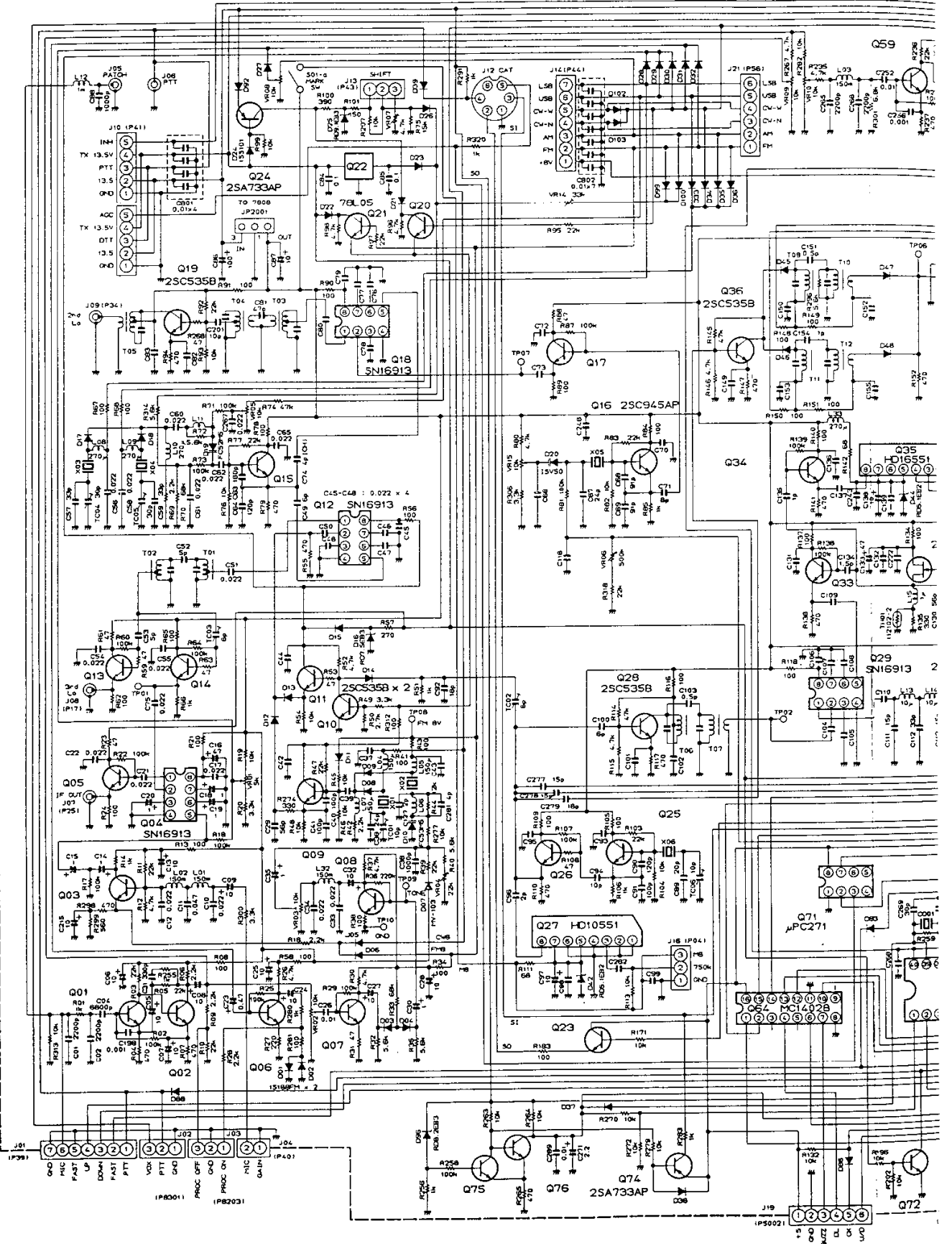
RESISTOR VALUES ARE IN Ω , k , M .
 CAPACITOR VALUES ARE IN μF ,
 INDUCTOR VALUES ARE IN HENRY.
 DIODES ARE TYPE M190 UNLESS

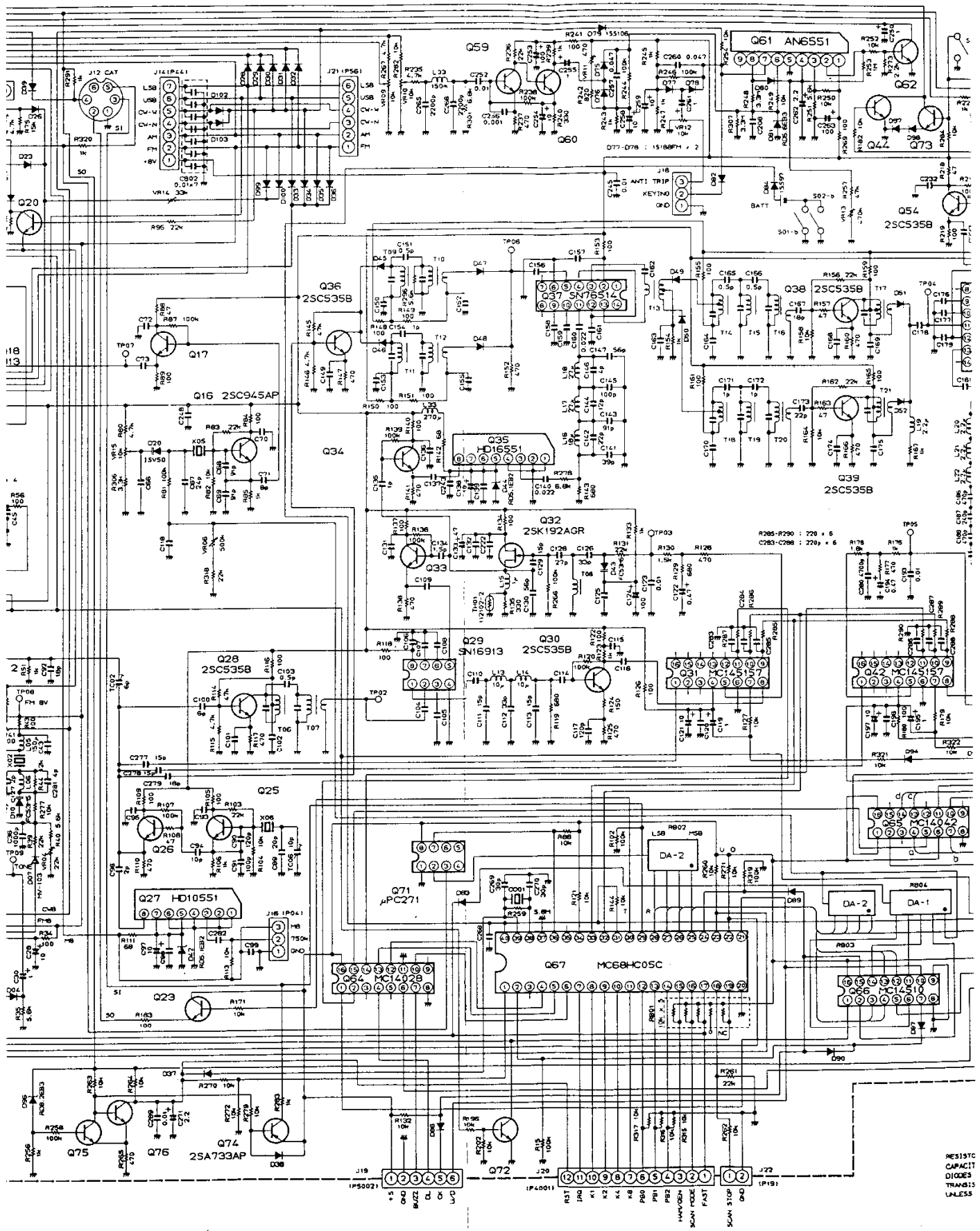


RF UNIT F2719000A (No.1xxxx)

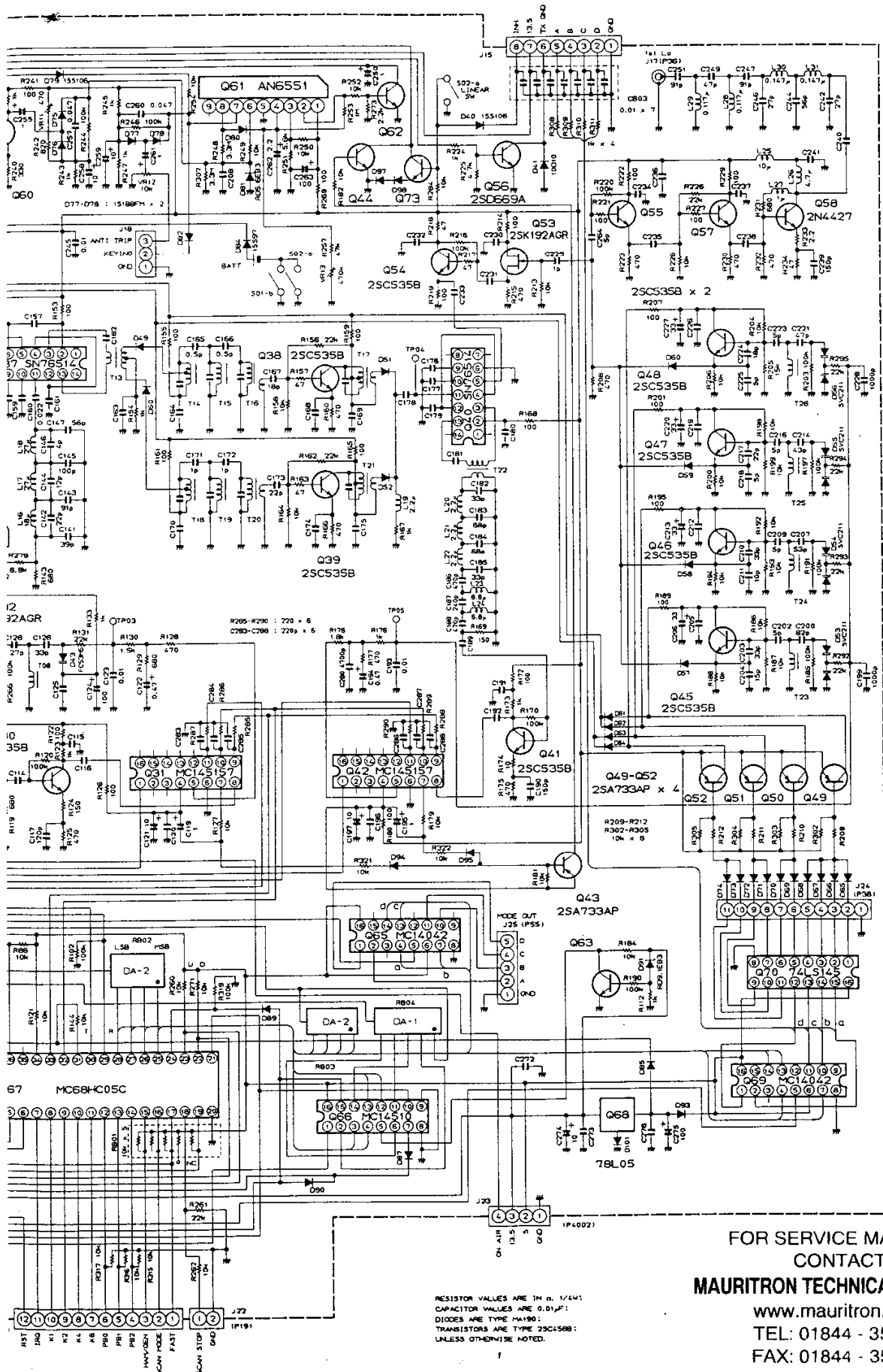
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LOCAL UNIT F2718000B (No.2xxx)





RESISTOR
CAPACITOR
DIODES
TRANSISTORS
UNLESS
OTHERWISE
SPECIFIED



RESISTOR VALUES ARE IN Ω, 1/4W;
 CAPACITOR VALUES ARE 0.01µF;
 DIODES ARE TYPE 1N190;
 TRANSISTORS ARE TYPE 2SC4508;
 UNLESS OTHERWISE NOTED.

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