

FT-757GX II

FOR SERVICE MANUALS
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YAESU MUSEN CO., LTD.

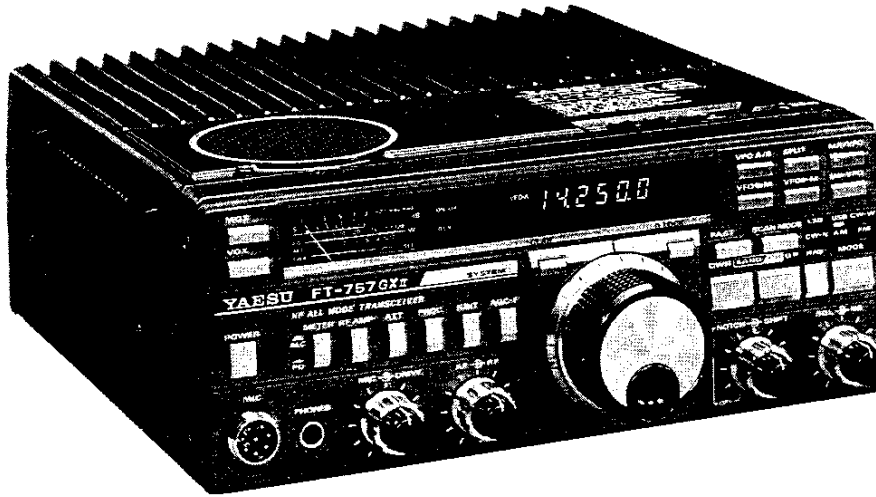
C.P.O. BOX 1500
TOKYO, JAPAN

CONTENTS

| | (Page) |
|--|--------|
| SOLDERING AND DESOLDERING TECHNIQUE | 2 |
| OUTER COVER REMOVAL | 4 |
| SERVICE AND ALIGNMENT | 5 |
| PARTS LAYOUTS, SCHEMATICS, SIGNAL LEVELS AND VOLTAGE CHARTS : | |
| RF UNIT | 15 |
| LOCAL UNIT | 18 |
| DISPLAY UNIT | 21 |
| LPF UNIT | 22 |
| DIAL UNIT | 23 |
| 100W PA UNIT | 24 |
| 10W PA UNIT | 26 |
| KEYER UNIT | 28 |
| SWITCH UNIT A, B, KEYER CONTROL UNIT, NOTCH UNIT | 30 |
| SIGNAL PATHS | 31 |
| COMPONENT APPLICATIONS | 35 |
| FT-757GXII / SXII PARTS LIST | 41 |
| FP-757HD PARTS LIST | 56 |

FT-757GX II TECHNICAL SUPPLEMENT

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

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

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

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

SOLDERING AND DESOLDERING TECHNIQUE

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

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

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

NOTES ON USE OF CMOS COMPONENTS:

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

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

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

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

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INSERTION OF PARTS ON CIRCUIT BOARDS

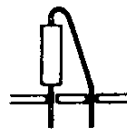
All of the below are acceptable ways of inserting components into circuit board mounting holes.



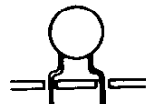
(a) Bend leads slightly



(b) Straight-in mounting



(c) Vertical mounting

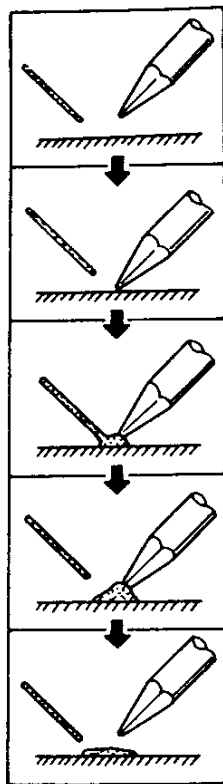


(d) Preformed disc ceramic capacitor



(e) Preformed resistor, diode, etc.

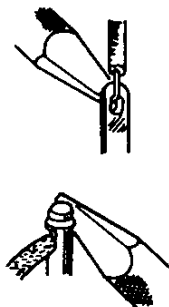
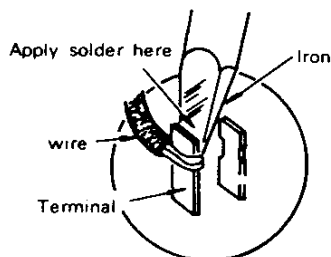
BASIC SOLDERING PRACTICE



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

Soldering to terminal posts:

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

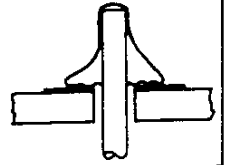


EXAMPLES OF POOR SOLDERING PRACTICE

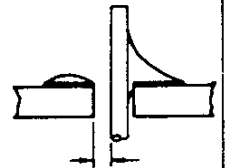
Unwanted solder bridge connecting two tracks (caused by use of too much solder)



"Cold joint" (caused by insufficient heat to part of work, resulting in poor solder flow)

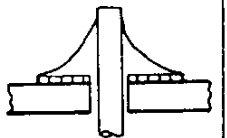


Unstable joint (caused by insufficient heat or solder)

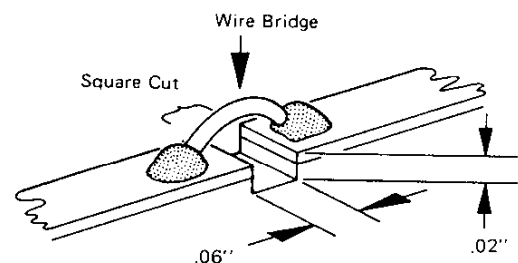
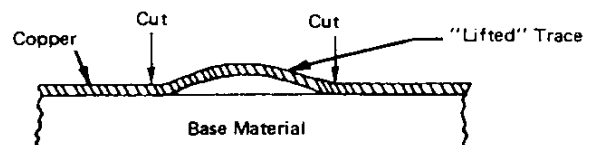


Proper soldering:

A smooth fillet of solder surrounds the lead and just covers the foil pad.

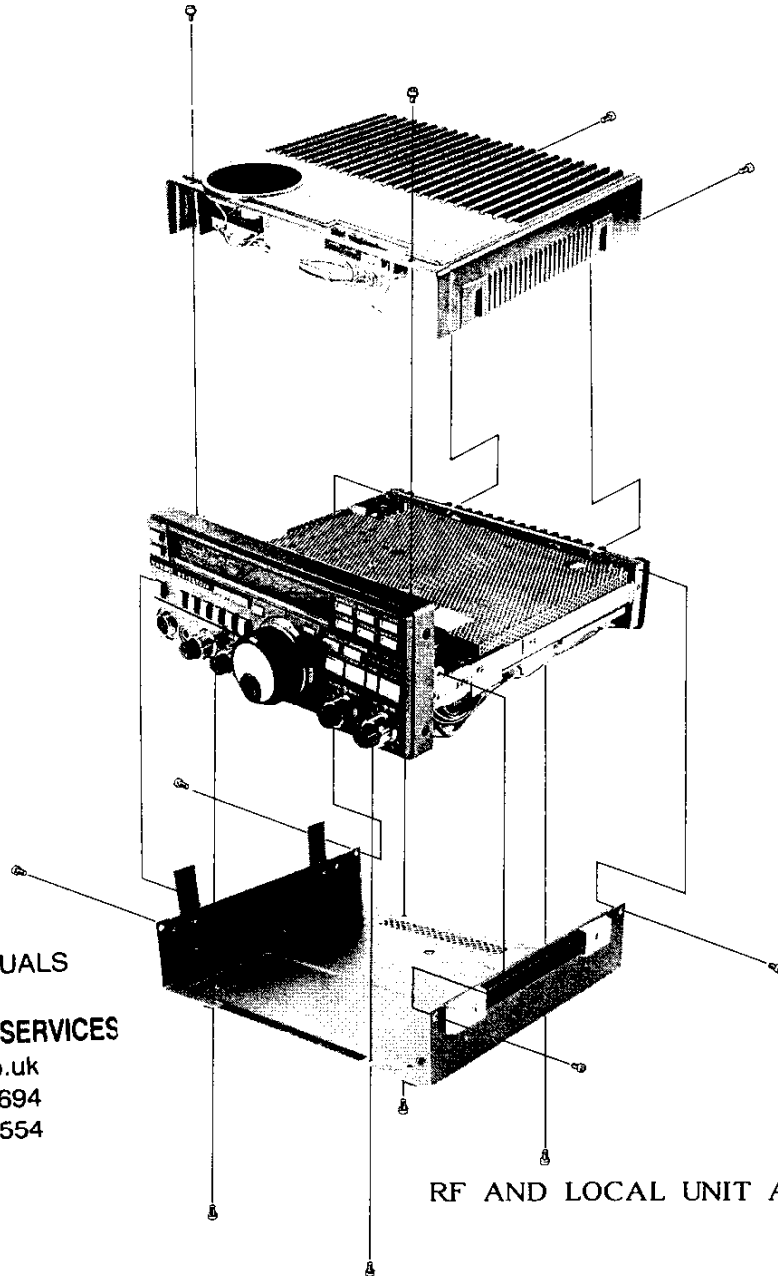


If you have previously lifted a trace, make an etch cut on each side of the lifted trace as shown in the drawing, and install a wire bridge.



Coat Cut Area With Eastman 910 After Soldering Wire Bridge

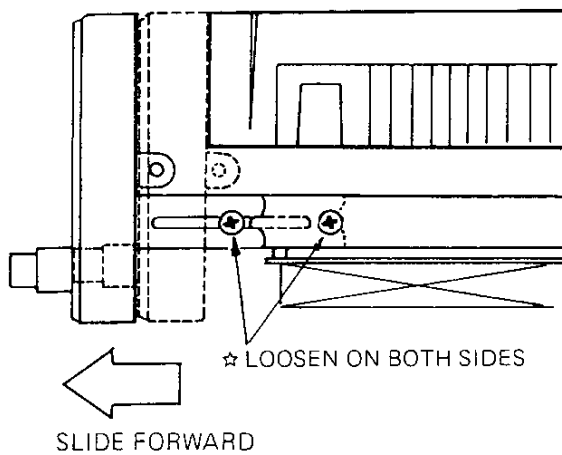
OUTER COVER REMOVAL



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RF AND LOCAL UNIT ACCESS

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



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

SERVICE AND ALIGNMENT

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

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

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

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

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

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

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

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

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



Alignment Equipment

Frequency counter with accuracy of 0.1 ppm to 100 MHz

DC voltmeter with at least 10-Megohm input impedance

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

AF millivoltmeter

DC milliammeter ranging to 500 mA

X-Y oscilloscope with 60 MHz bandwidth

RF in-line wattmeter

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

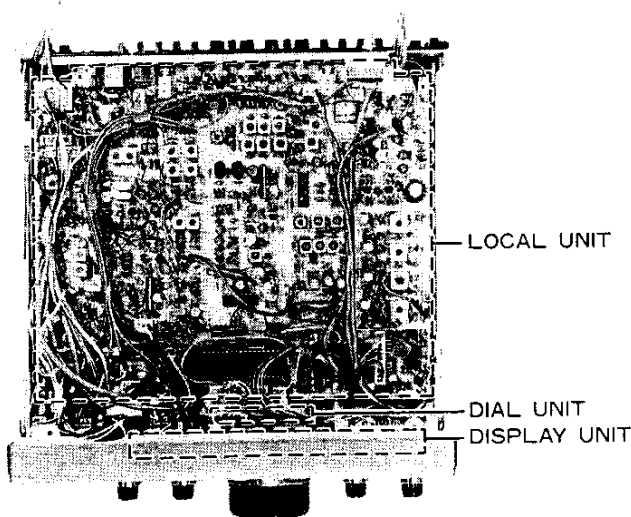
RF signal generator covering 1-30 MHz, with calibrated output levels from 5 dB μ to 100 dB μ

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

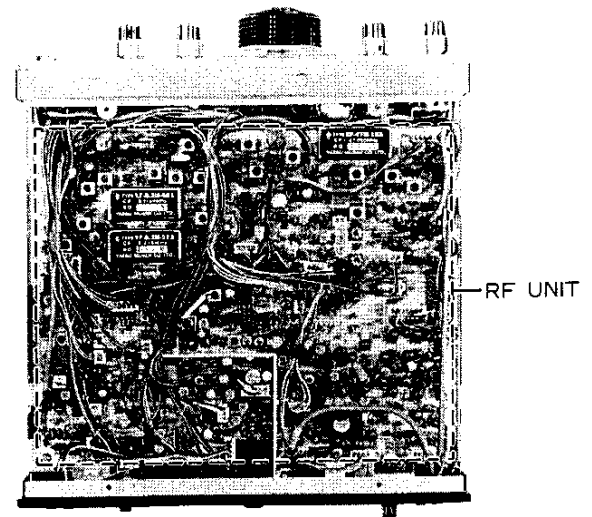
FM deviation meter/SINADer and RF sampling coupler ("T") for FM modulator alignment

Monitor scope for transmitter output display

Linear detector for 1-30 MHz

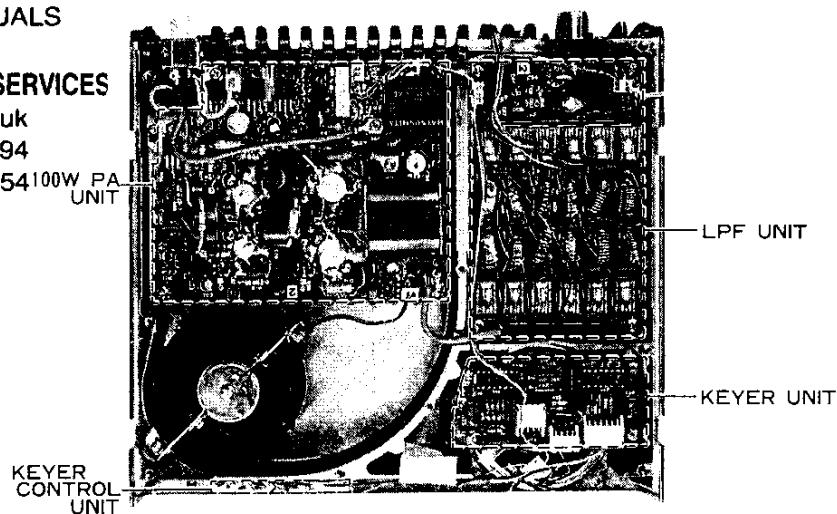


Chassis Top View



Chassis Bottom View

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Underside of Heatsink

Alignment Precautions

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

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

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

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

I. LOCAL Unit

A. Third LO BPF

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

B. SSB, AM & CW Receive LO Level

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

C. 45 MHz Bandpass Filter

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

D. 60 MHz Bandpass Filter

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

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

E. 45 MHz Tripler

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

F. 15 MHz Reference Oscillator

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

G. 2nd Local Oscillator Frequency

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

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

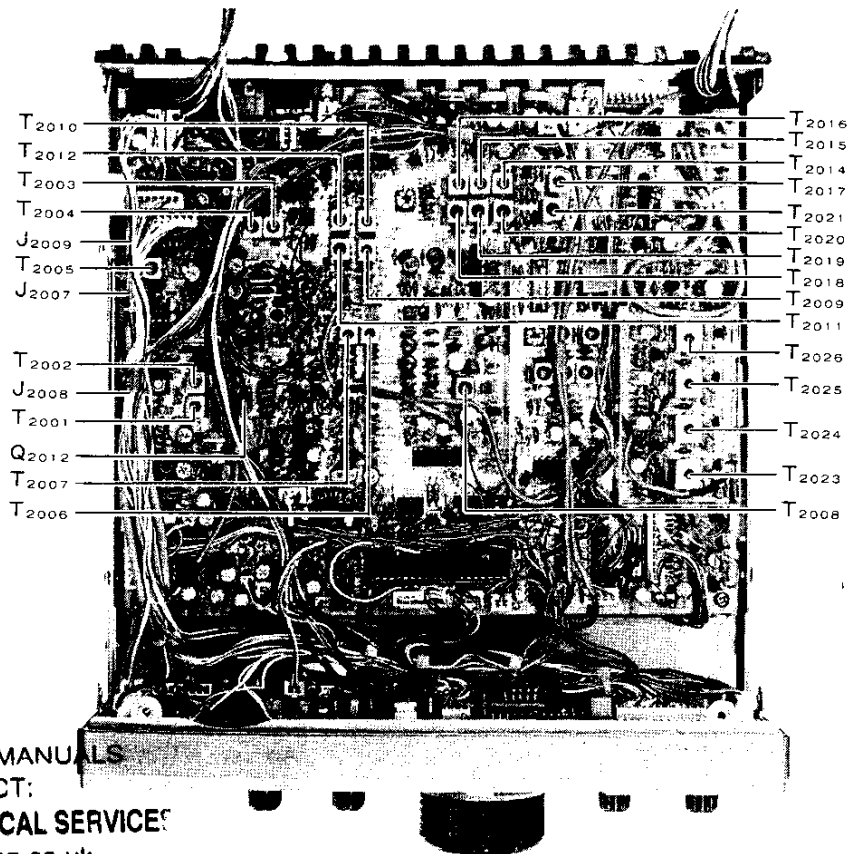
H. Carrier Point (Coarse Adj.)

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

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

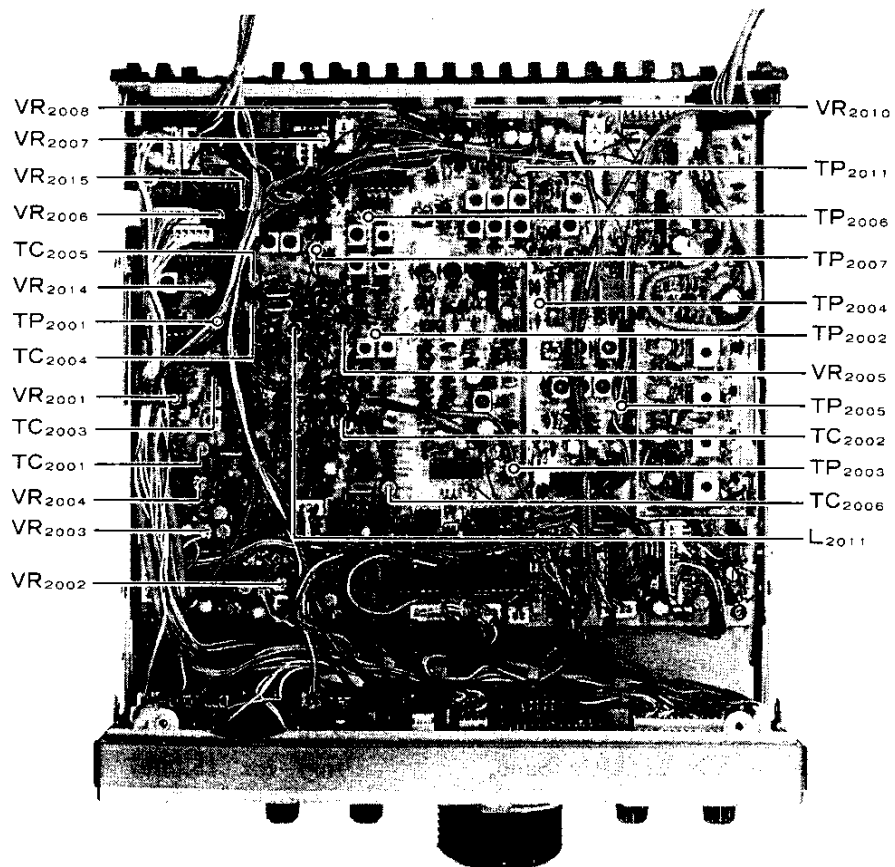
I. BFO Frequency

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



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Chassis Top View :
 LOCAL Unit Adjustment Locations



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

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

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

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

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

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

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

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

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

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

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

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

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

S. VOX Gain Preset

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

T. SSB Carrier Point (Fine Adj.)

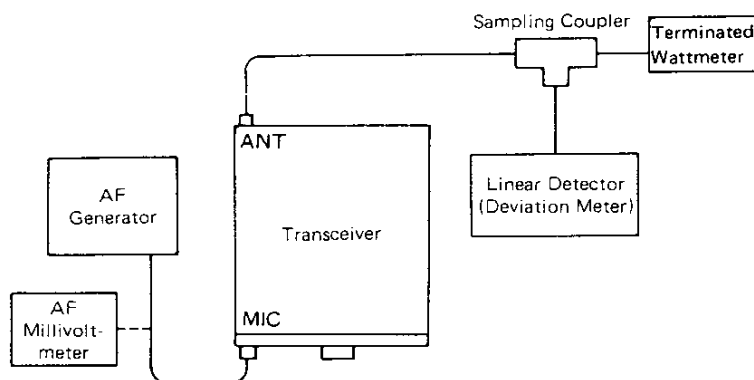
1. With the AF generator connected as in the previous step, set the transceiver to the 14 MHz band, LSB mode. Close the PTT line and adjust the MIC gain control for 80 watts output to the dummy load/wattmeter.

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

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

U. FM Modulation

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



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II. RF Unit: Receiver Circuits

A. 3rd Local Buffer

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

B. 2nd Local Buffer

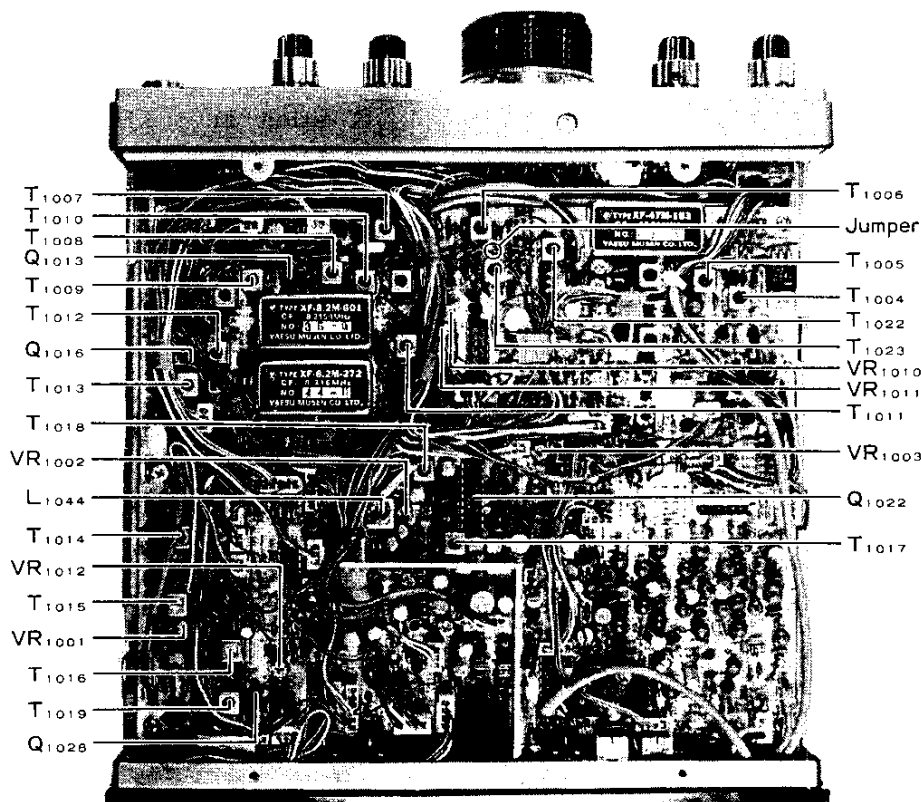
Connect the RF voltmeter to the jumper between T1006 and T1023 on the component side of the board, and adjust T1022 for maximum RF voltage (250 to 500 mVrms).

C. 8.67 MHz Oscillator

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

D. Rx IF Transformers

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



Chassis Bottom View : RF Unit
RX Adjustment Locations

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E. IF Notch Depth

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

F. Noise Pitch

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

G. IF Gain and S-Meter Sensitivity

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

H. Noise Blanker

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

I. FM 3rd Local

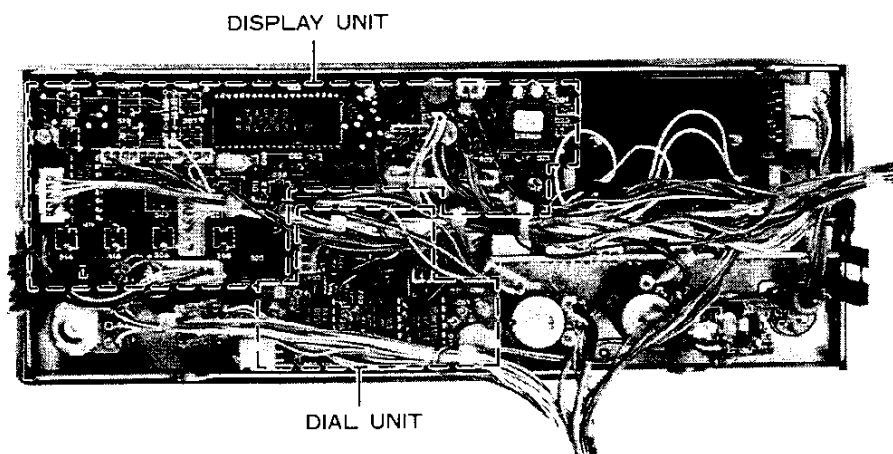
Inject 50dB RF at 14.000 MHz modulated with ± 3.5 kHz deviation of a 1 kHz tone to the antenna jack. Set the transceiver to the FM mode and tune to the injected signal. With the AF voltmeter connected to the EXT SP jack, confirm that the SQL control is fully counter-clockwise, and adjust T1017 for maximum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

J. Squelch Threshold

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

K. FM RX Audio Output Level

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



III. RF Unit: Transmitter Circuits

A. ALC Meter Zero Set

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

B. Tx IF Transformers

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

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

C. TX Power Output (exc. 10m)

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

D. 10m Tx Power Output

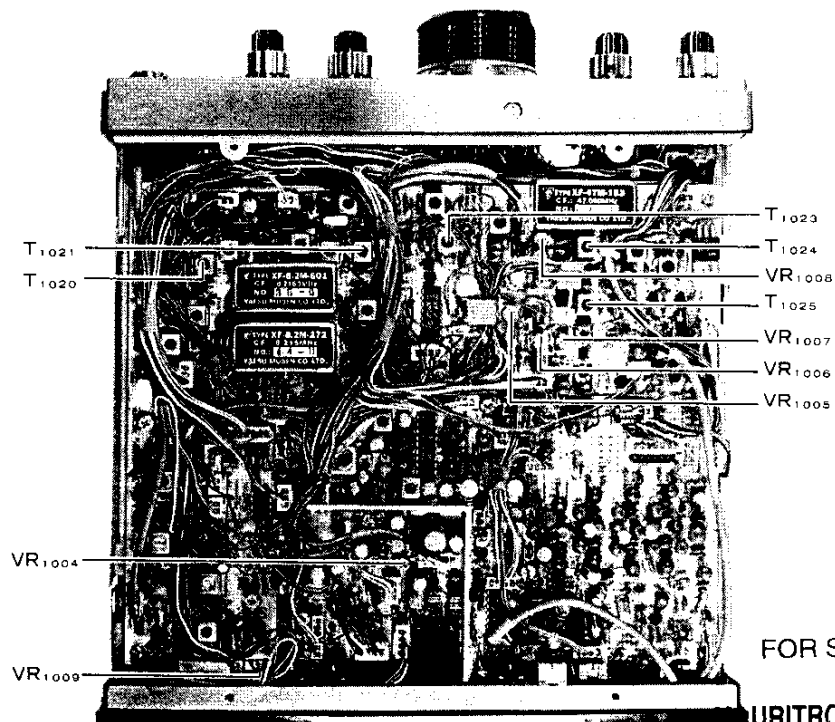
At 29 MHz, CW mode, set the DRIVE control fully clockwise and the set VR1005 fully clockwise (or for 10W output with the SXII model).

E. PO Meter Calibration

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

F. SWR Turndown (AFP)

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



Chassis Bottom View: RF Unit
TX Adjustment Locations

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

G. CW Sidetone Level

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

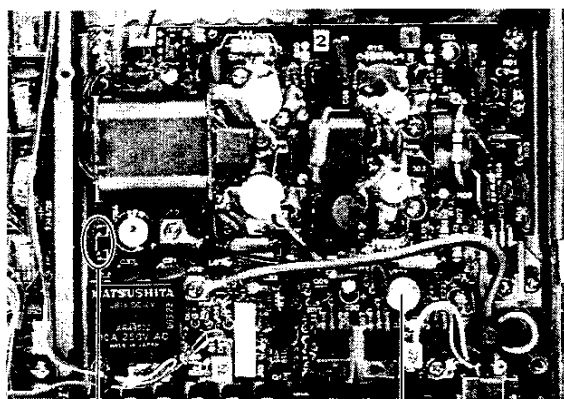
IV. LPF Unit: Directional Coupler Balance

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

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

V. PA Unit: Idling Current

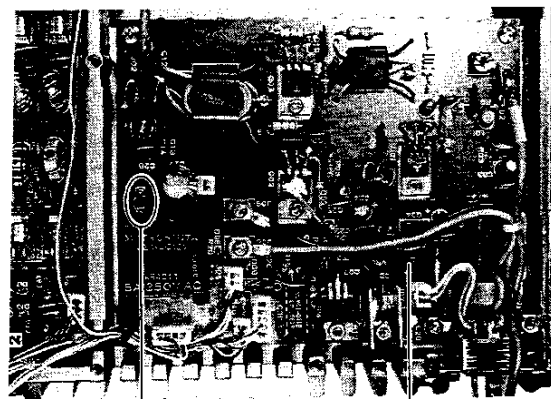
Remove the jumper shown in the figure below, and connect the DC milliammeter (500 mA range) in place of the jumper. With the transceiver set to an SSB mode and with no audio applied to the transmitter, close the PTT line and adjust VR6001 for 225 ± 75 mA on the milliammeter. (For the SXII model, adjust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



Jumper

VR6001

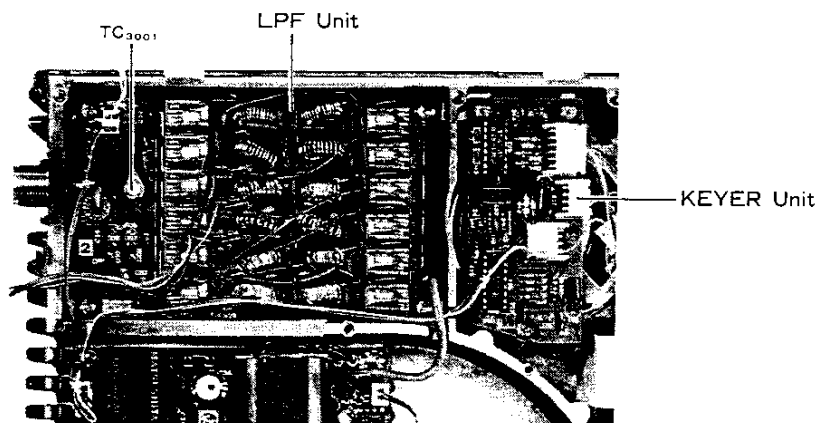
PA Unit: GXII model



Jumper

VR7001

PA Unit: SXII model



TC3001

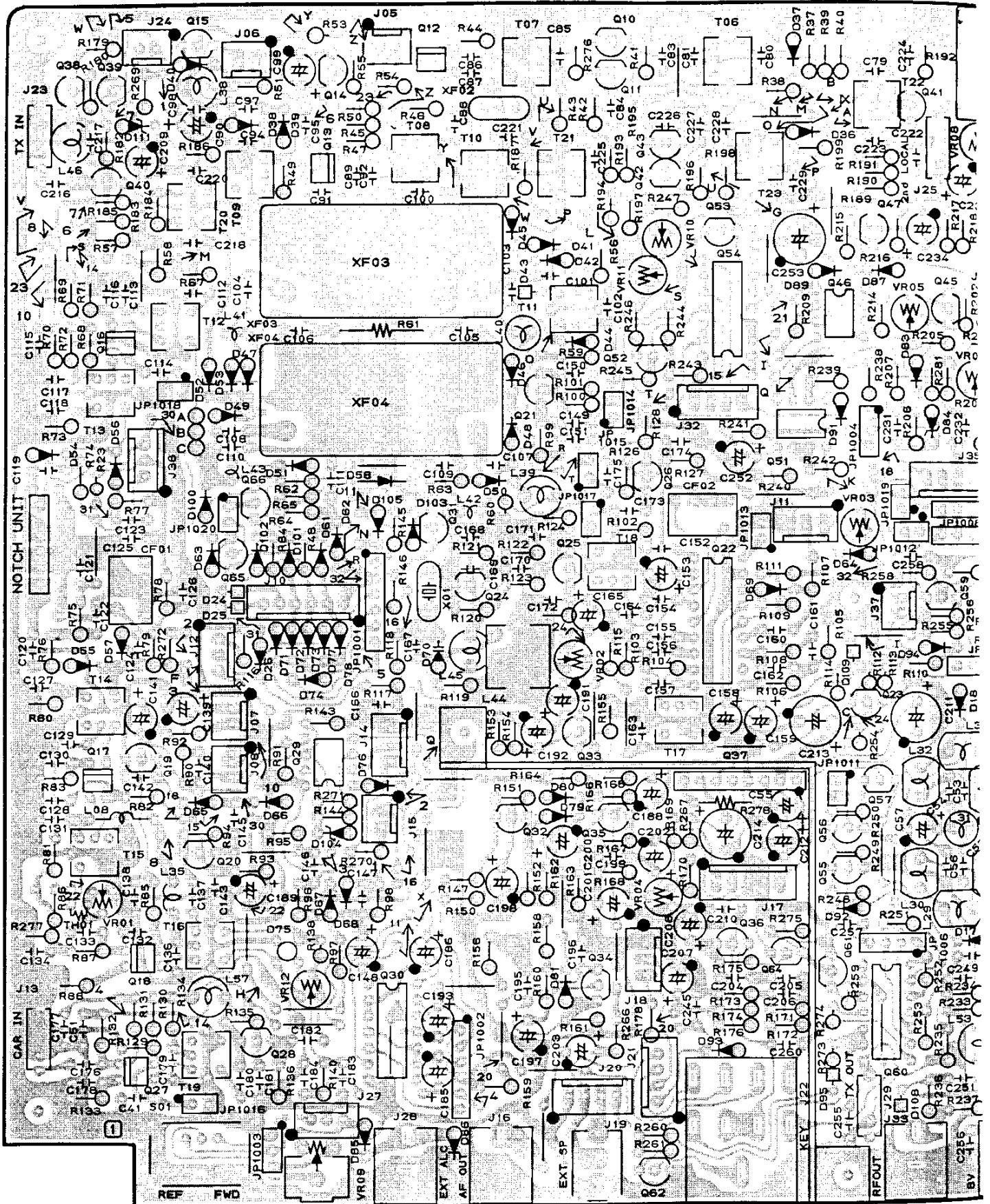
LPF Unit

KEYSER Unit

LPF Unit

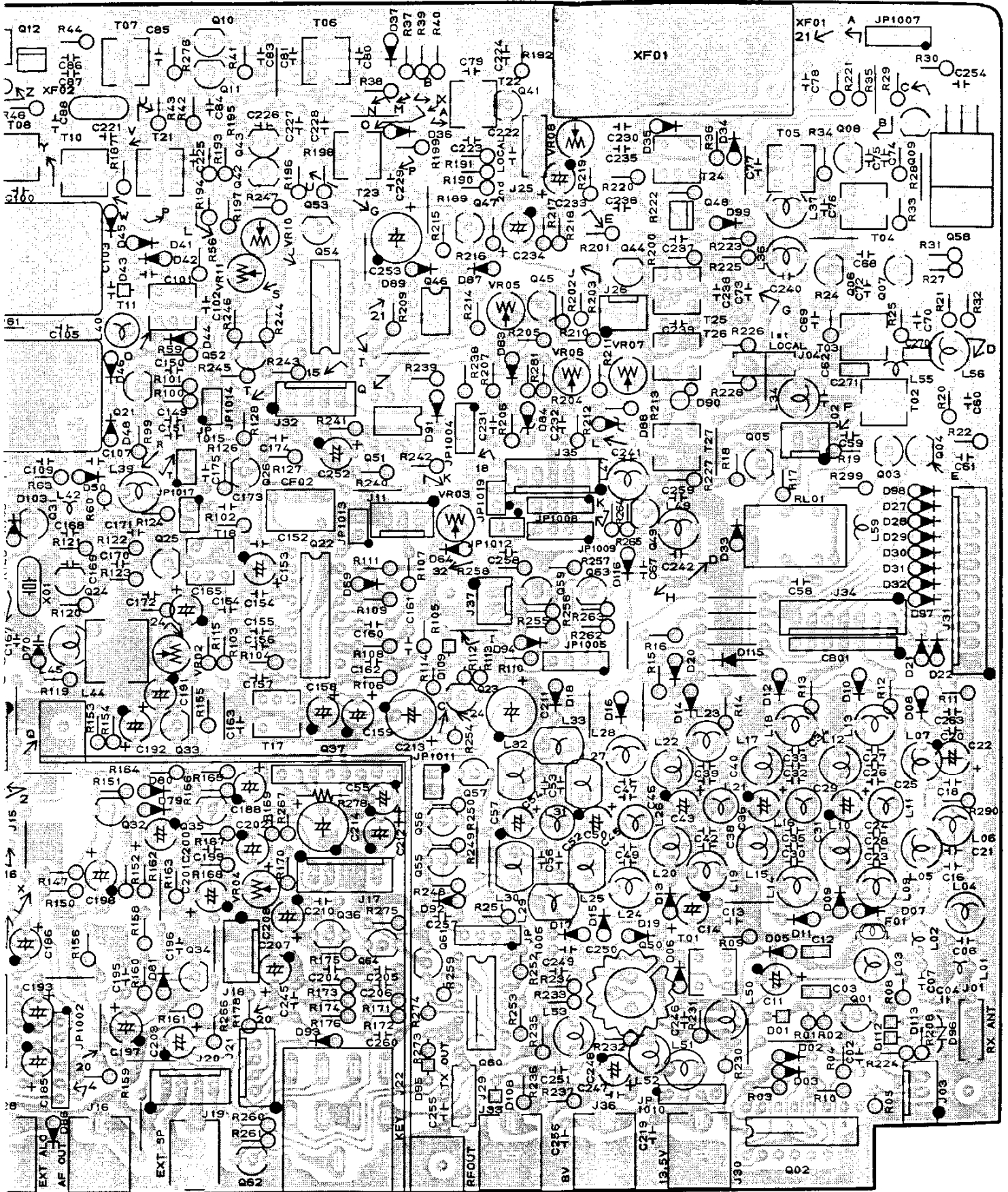
RF UNIT PARTS LAYOUT

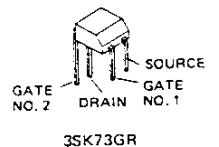
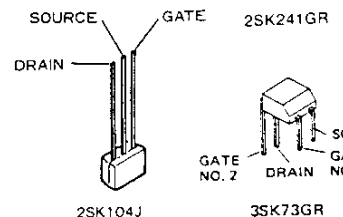
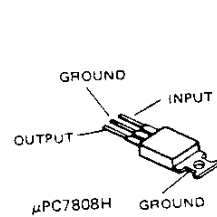
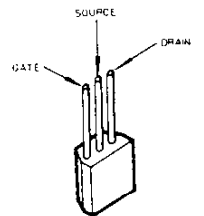
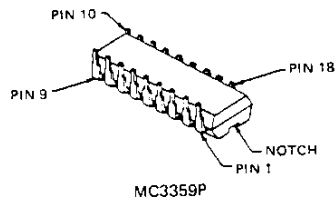
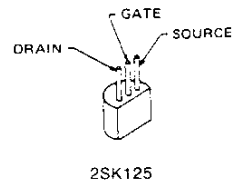
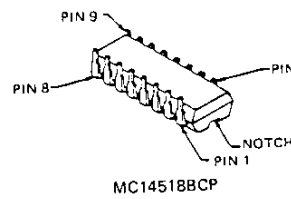
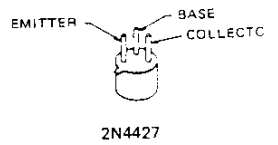
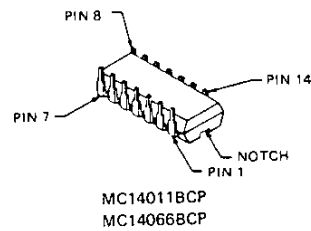
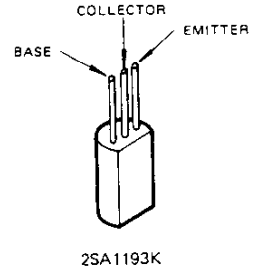
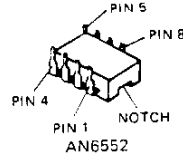
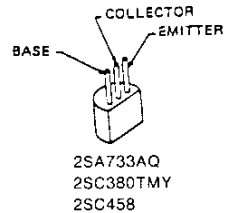
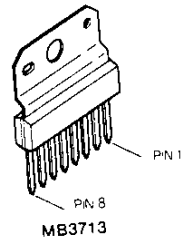
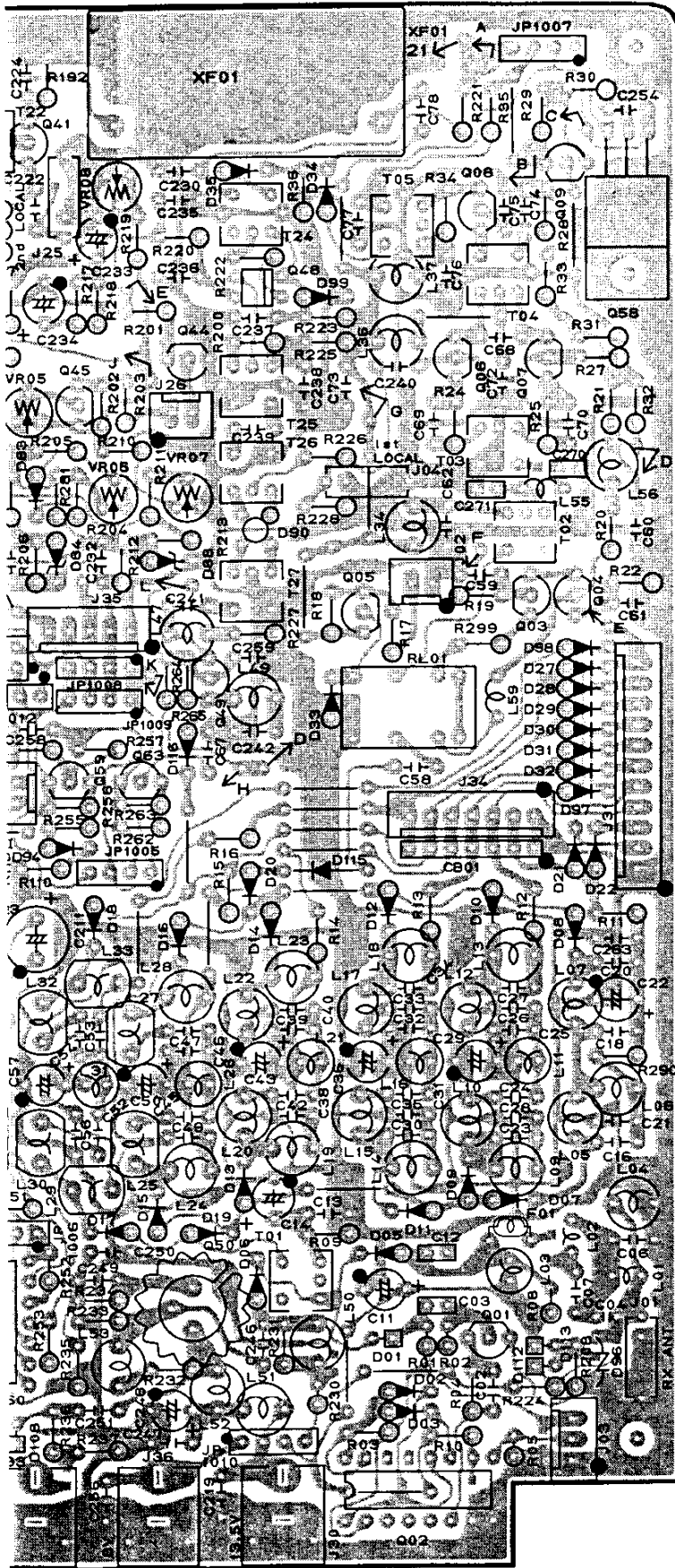
Component Side



RF UNIT PARTS LAYOUT

Component Side



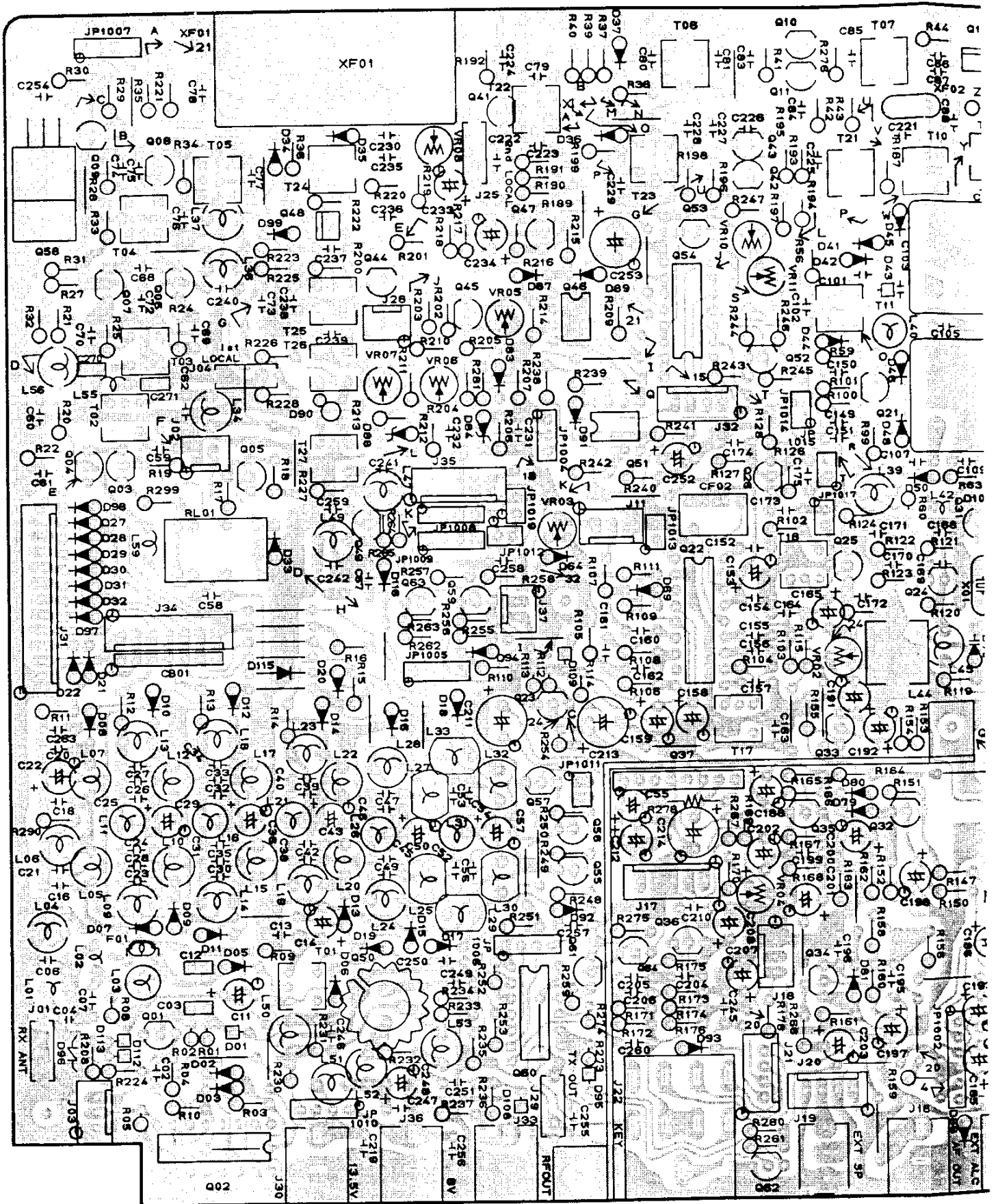


RF UNIT IC VOLTAGE CHART (DC VOLTS)

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

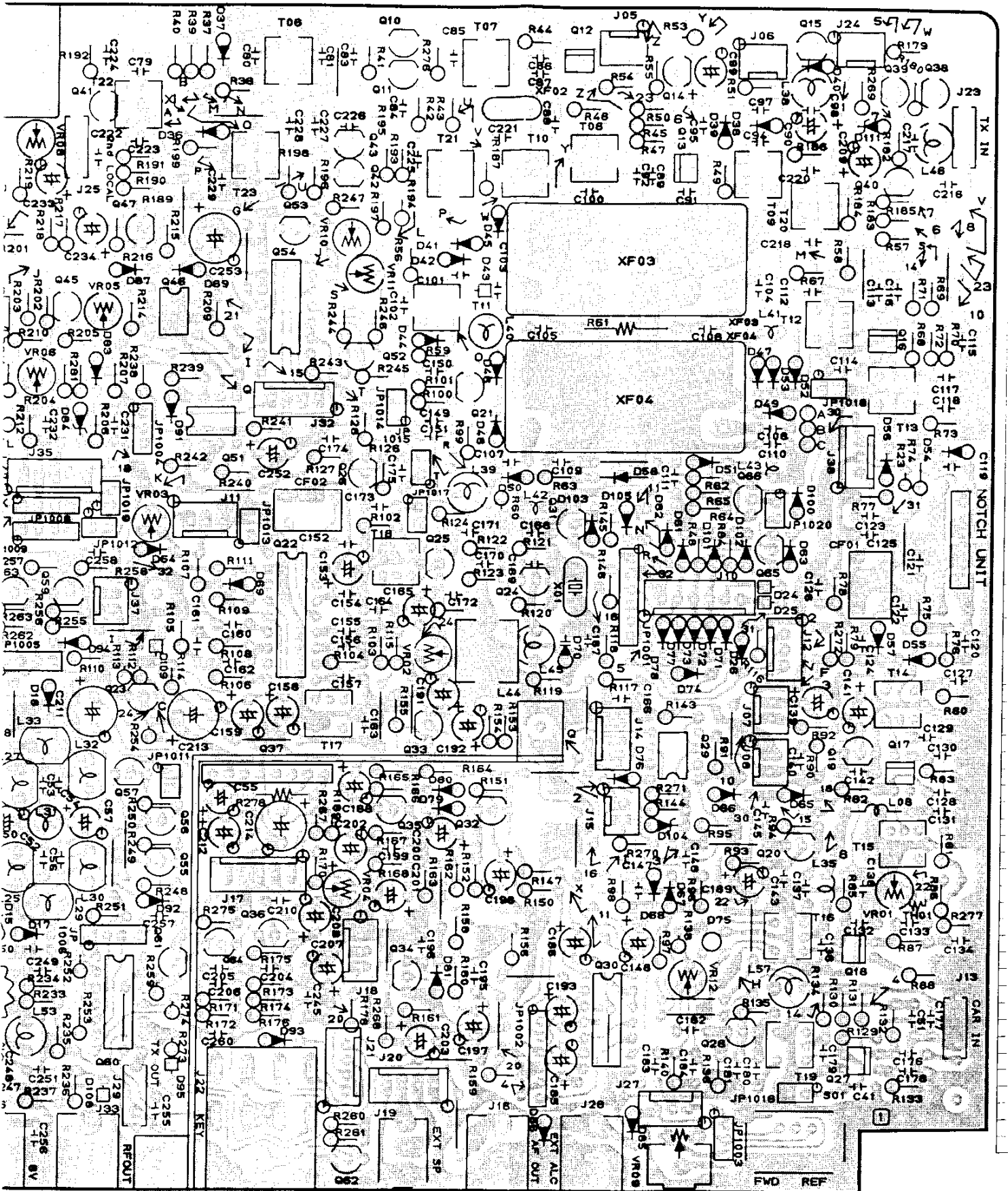
RF UNIT PARTS LAYOUT

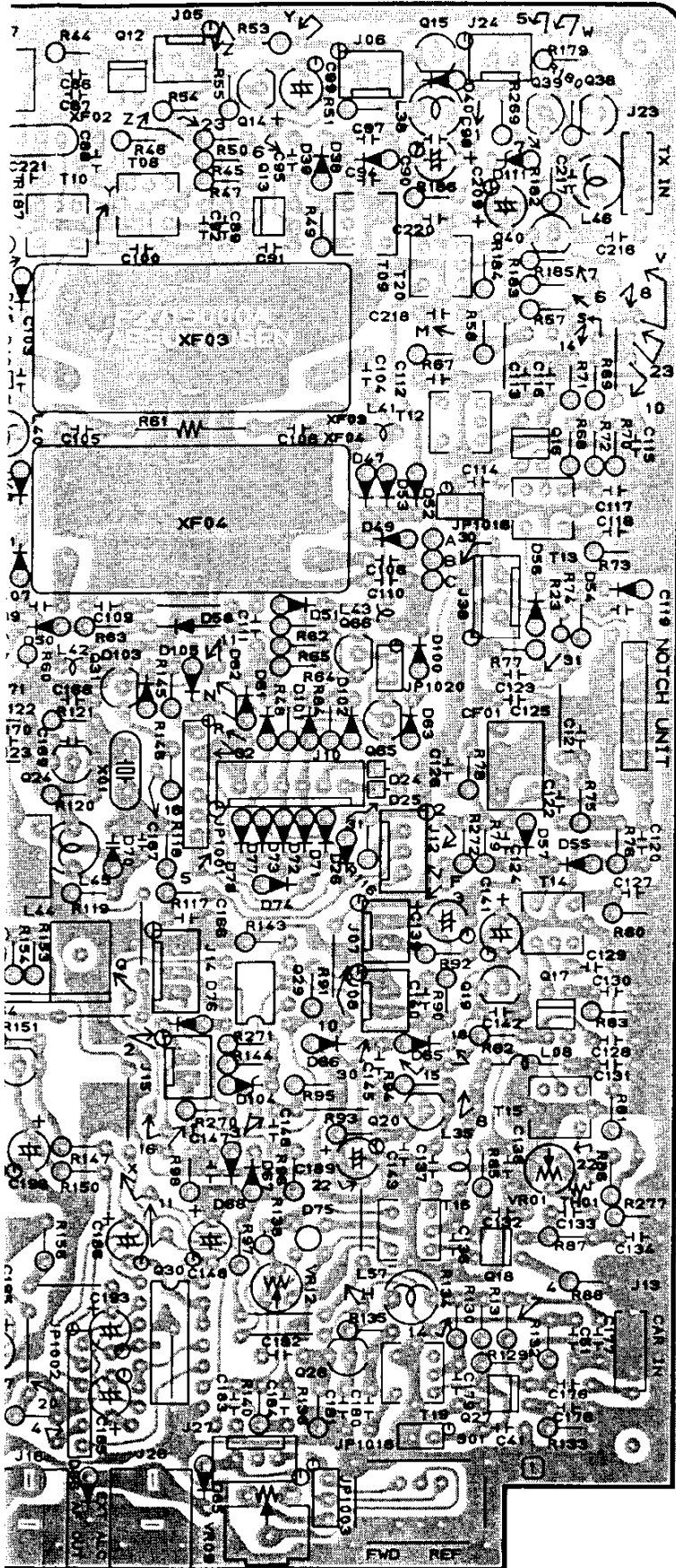
Solder Side



RF UNIT PARTS LAYOUT

Solder Side





RF UNIT VOLTAGE CHART (DC VOLTS)

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

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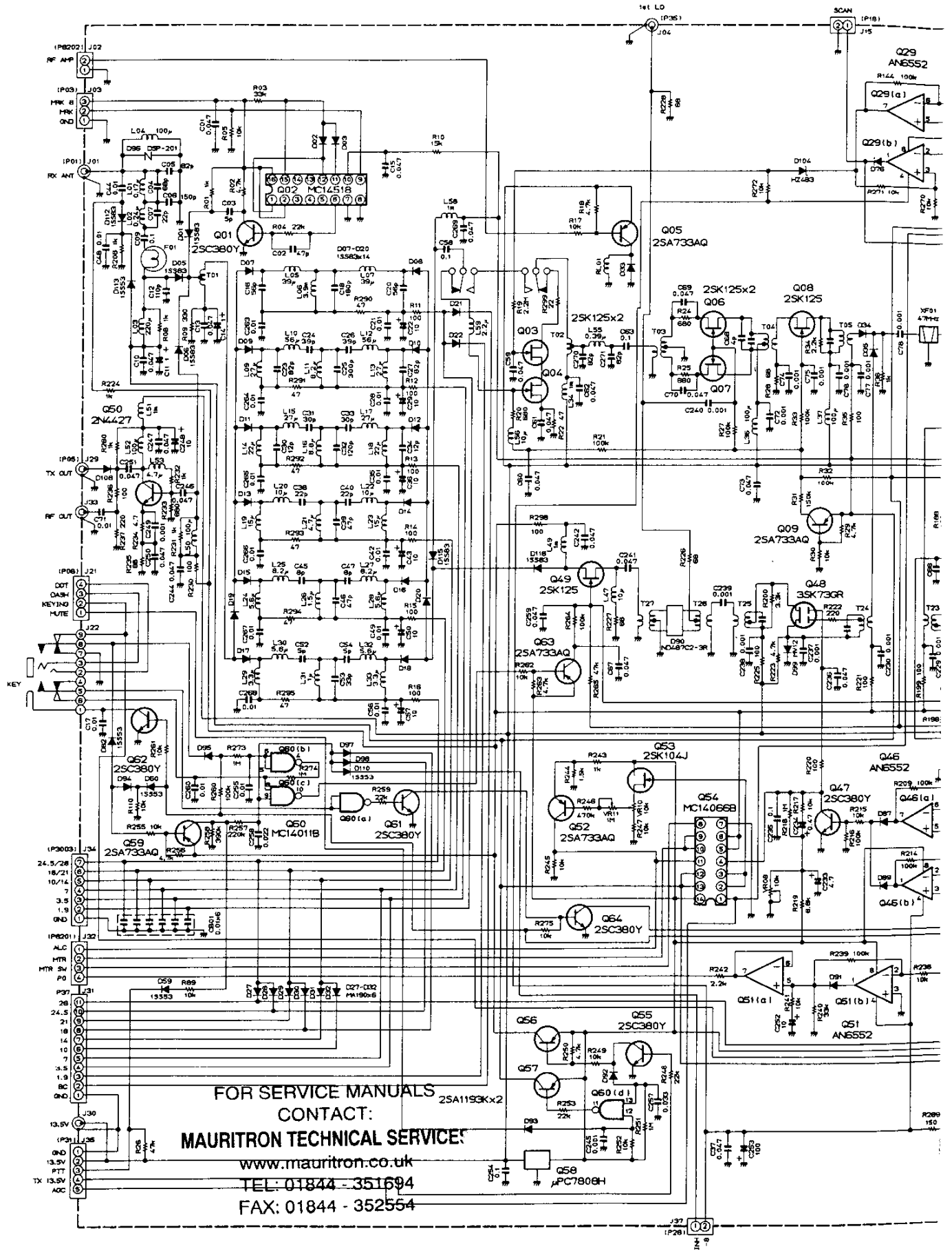
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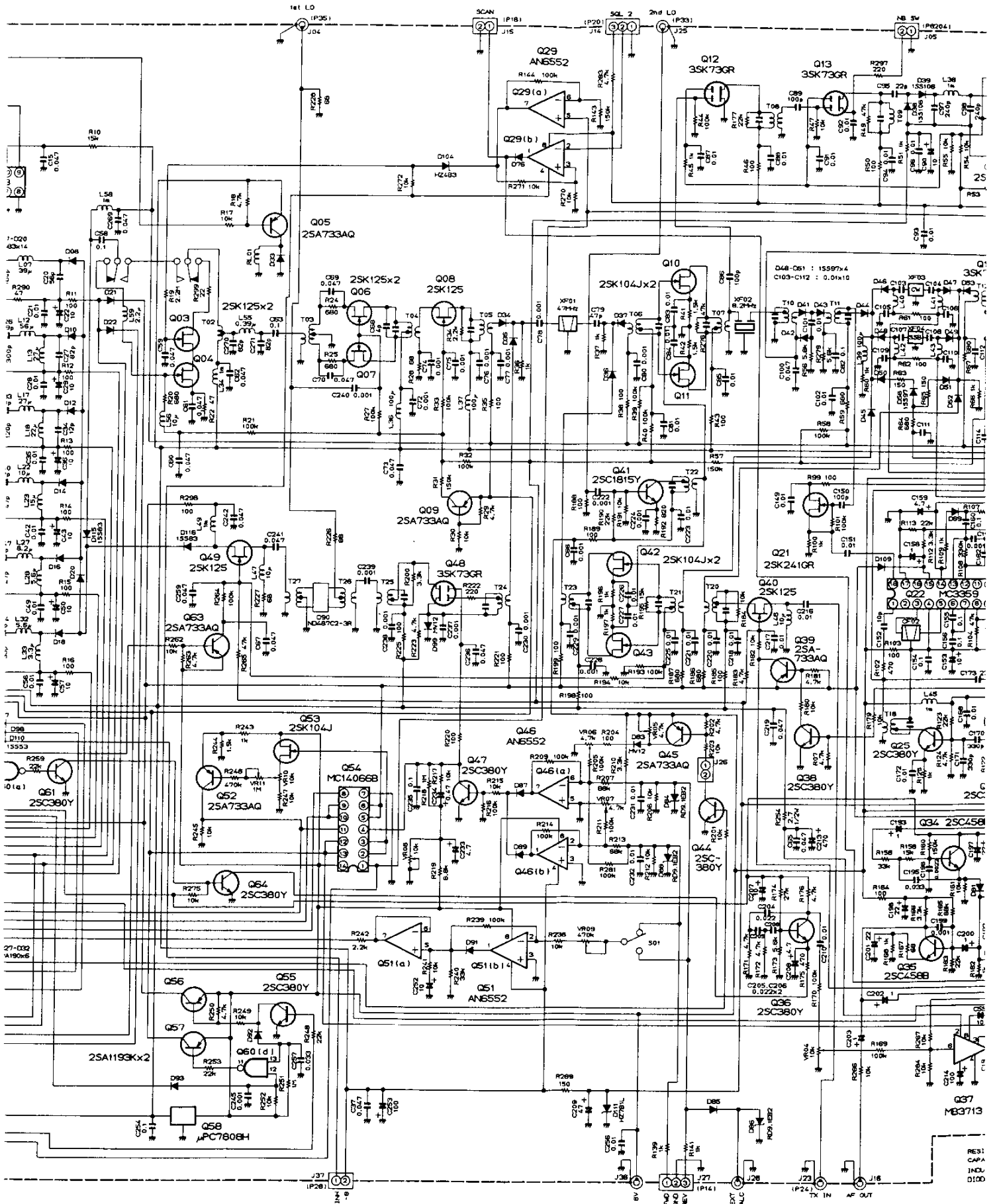
FAX: 01844 - 352554

RF UNIT SCHEMATIC DIAGRAM

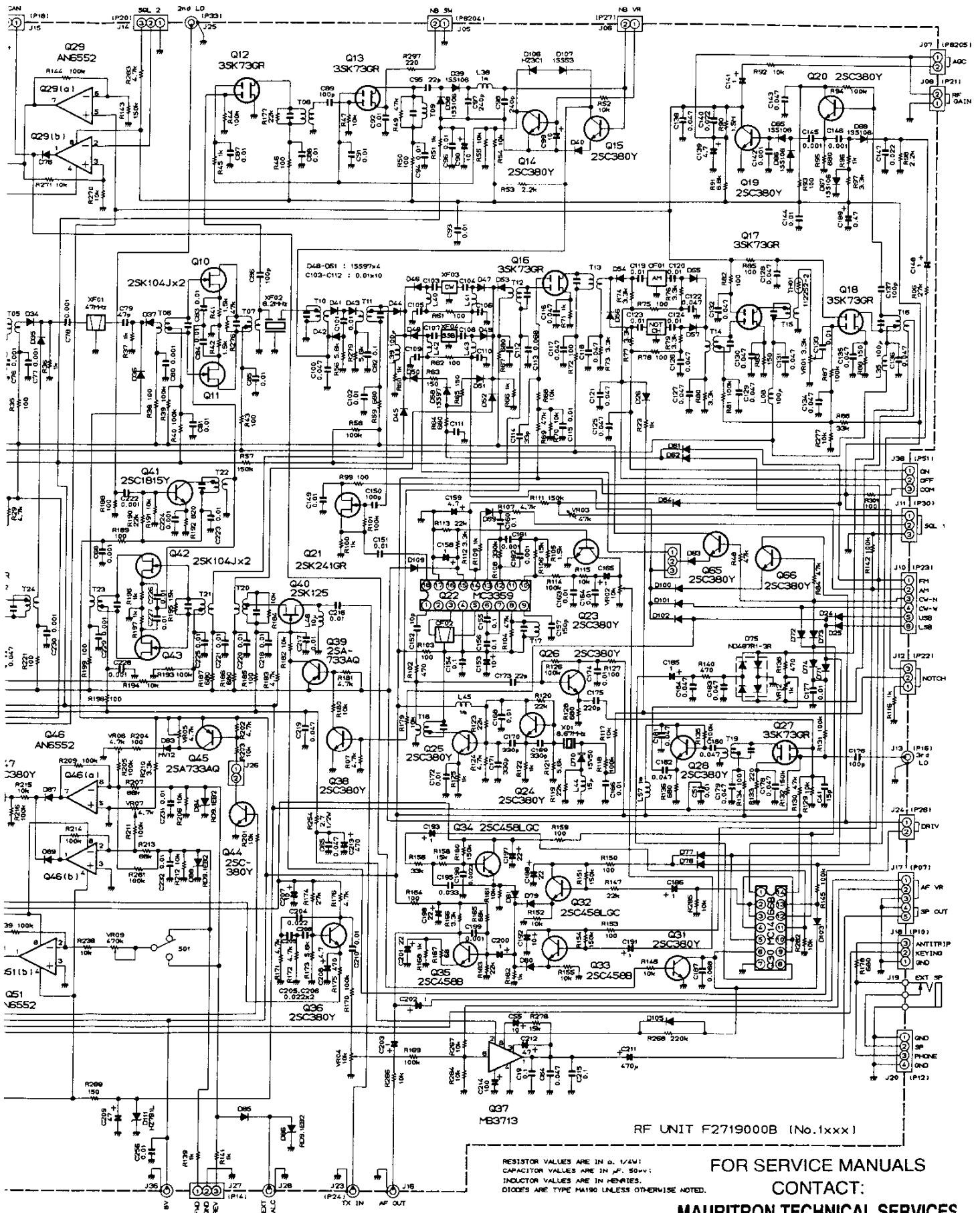


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RF UNIT SCHEMATIC DIAGRAM



DIAGRAM



RF UNIT F2719000B (No.1xxx1)

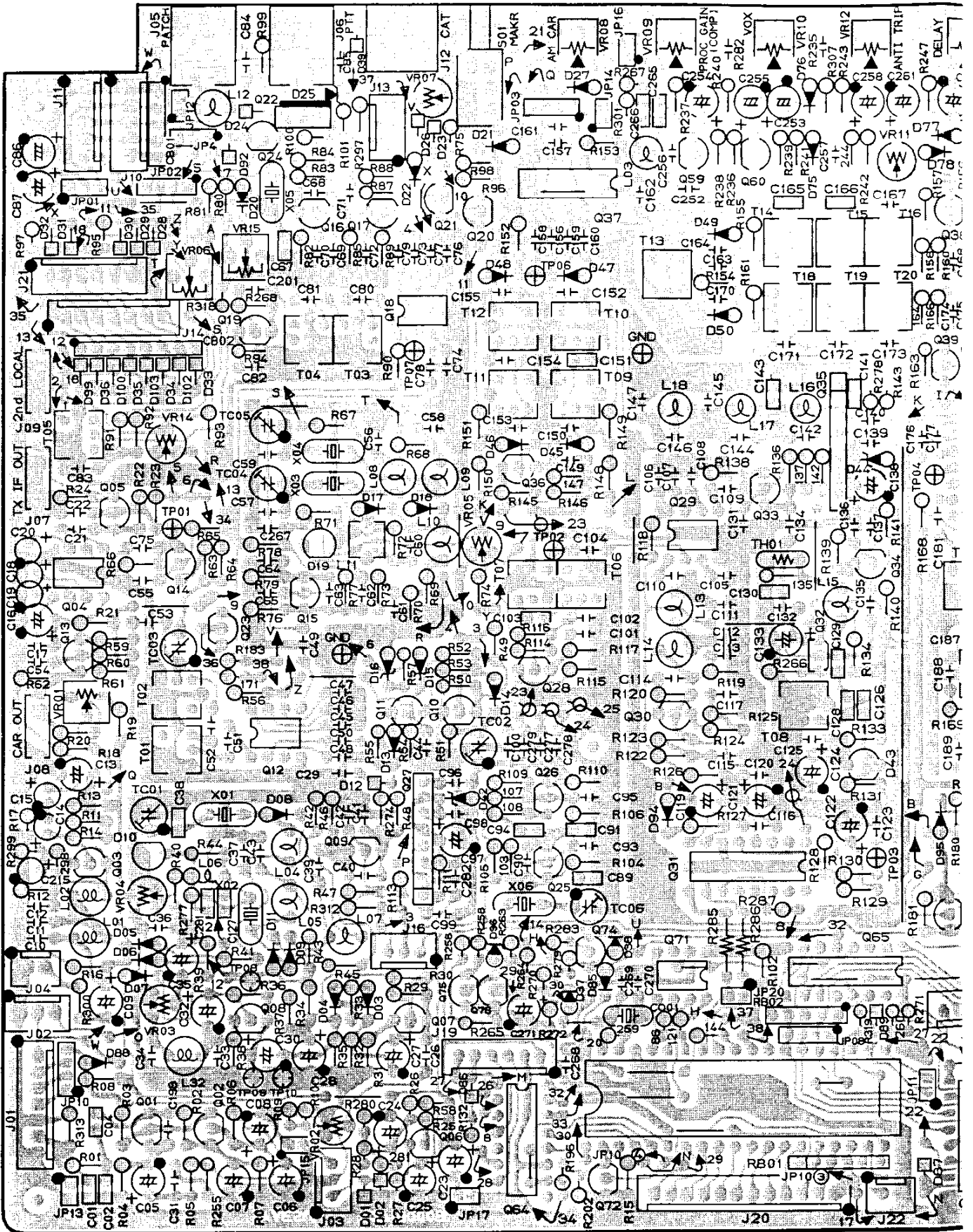
RESISTOR VALUES ARE IN Ω , μ M, M;
CAPACITOR VALUES ARE IN μ F, 50 μ F;
INDUCTOR VALUES ARE IN HENRIES.
DIODES ARE TYPE MA190 UNLESS OTHERWISE NOTED.

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LOCAL UNIT PARTS LAY

Component Side



LOCAL UNIT PARTS LAYOUT

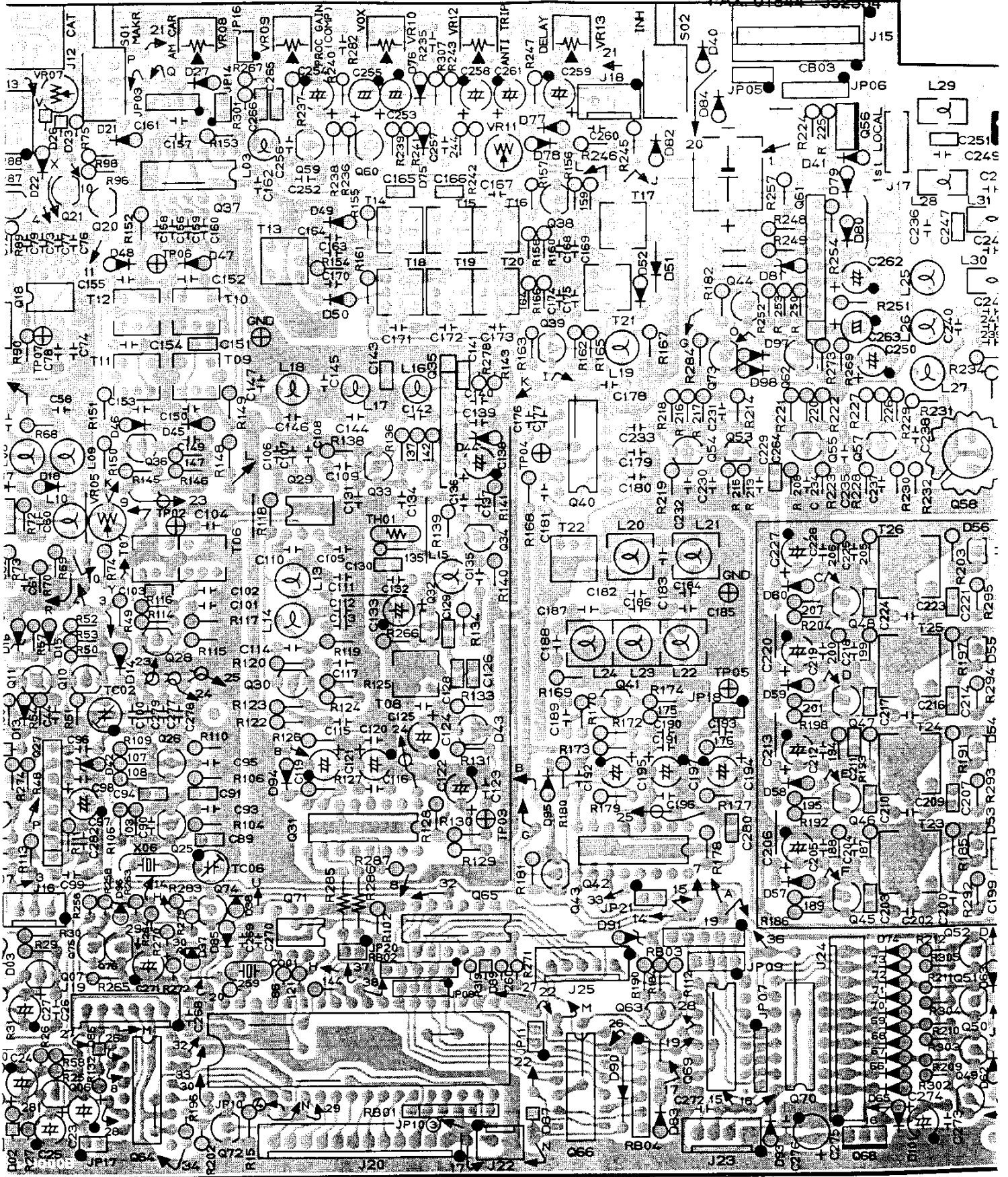
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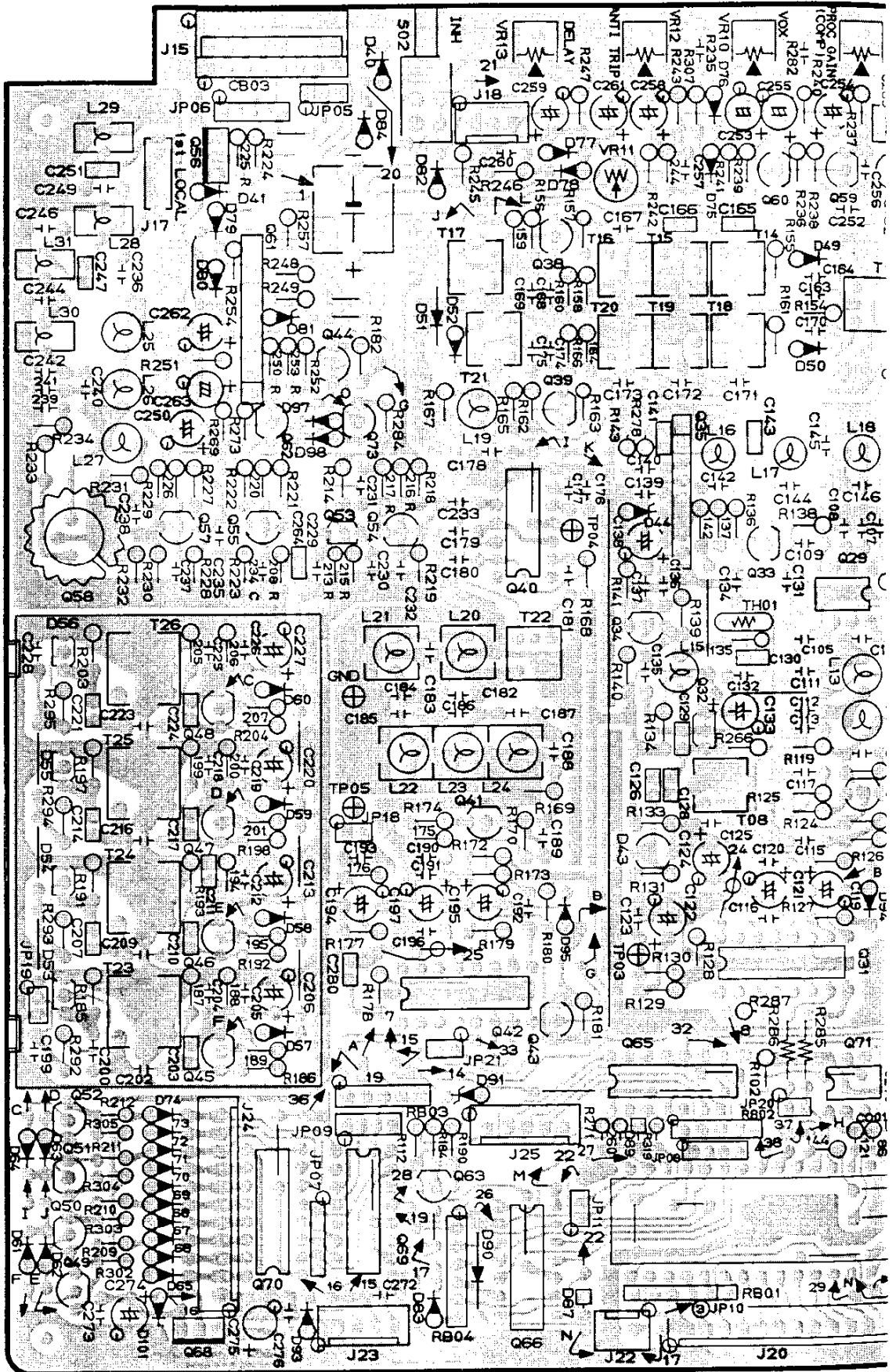
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Component Side





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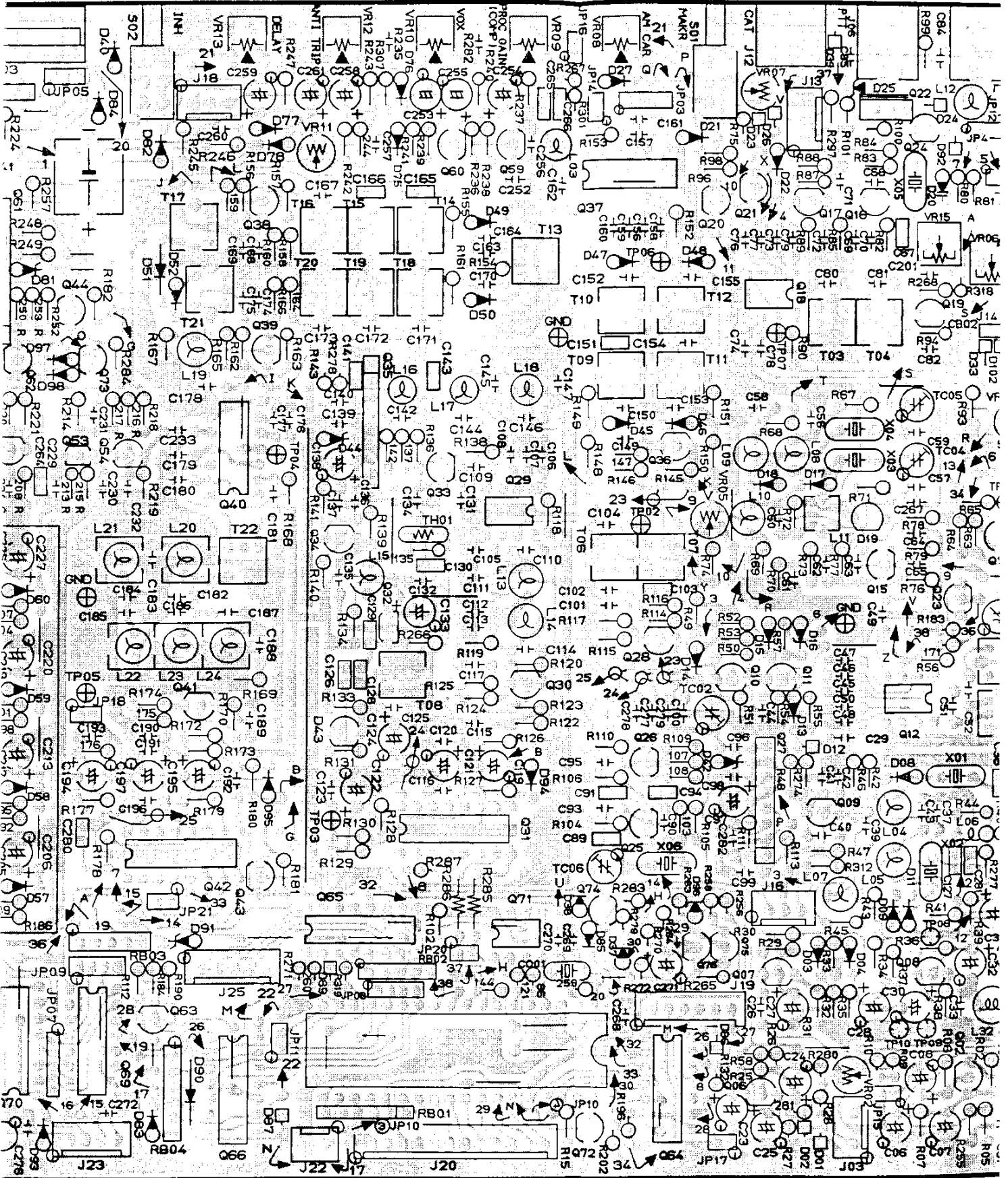
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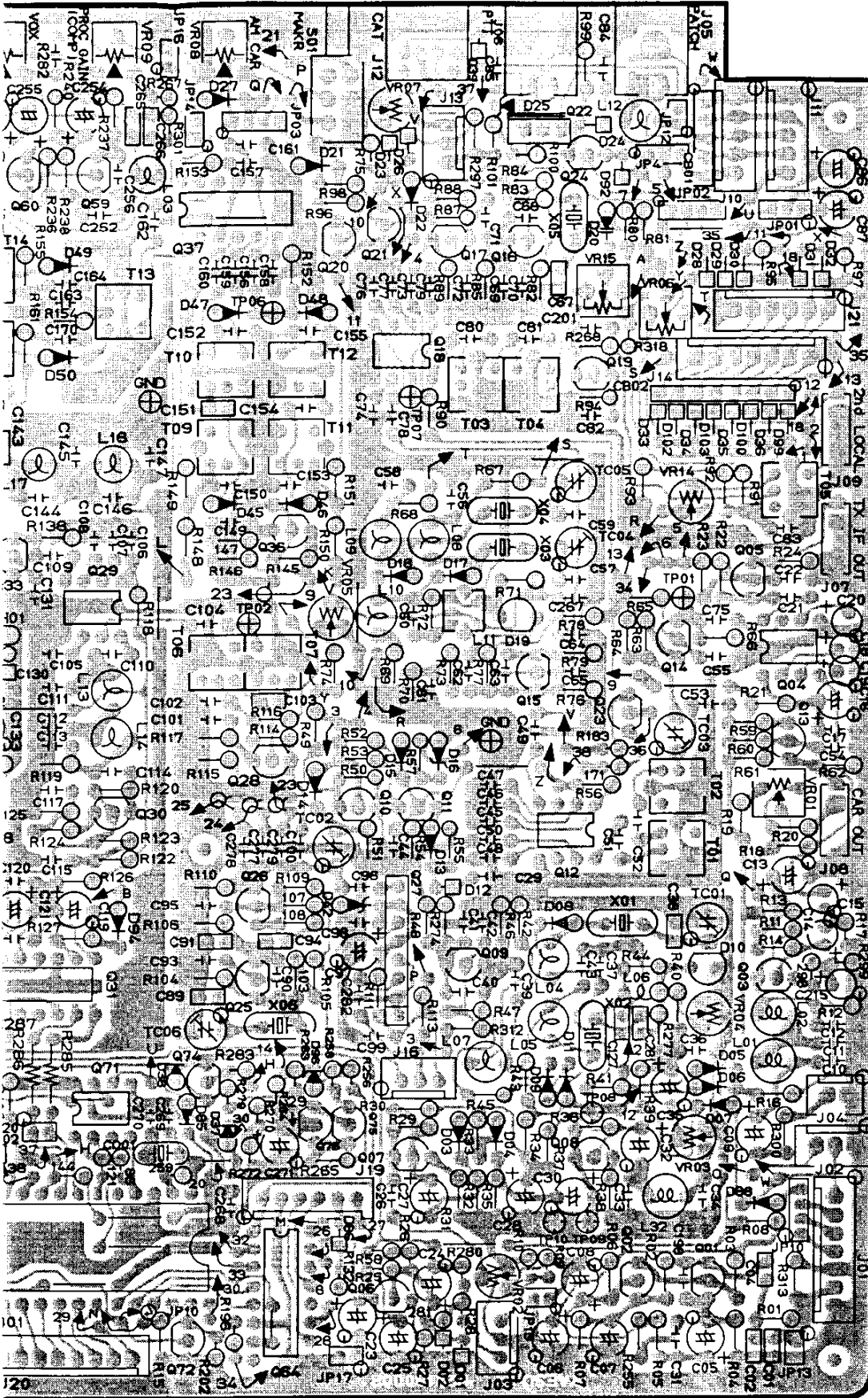
LOCAL UNIT PARTS LAYOUT

Solder Side



L UNIT PARTS LAYOUT

Solder Side



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LOCAL UNIT VOLTAGE CHART

(DC VOLTS)

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

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LOCAL UNIT IC VOLTAGE CHART

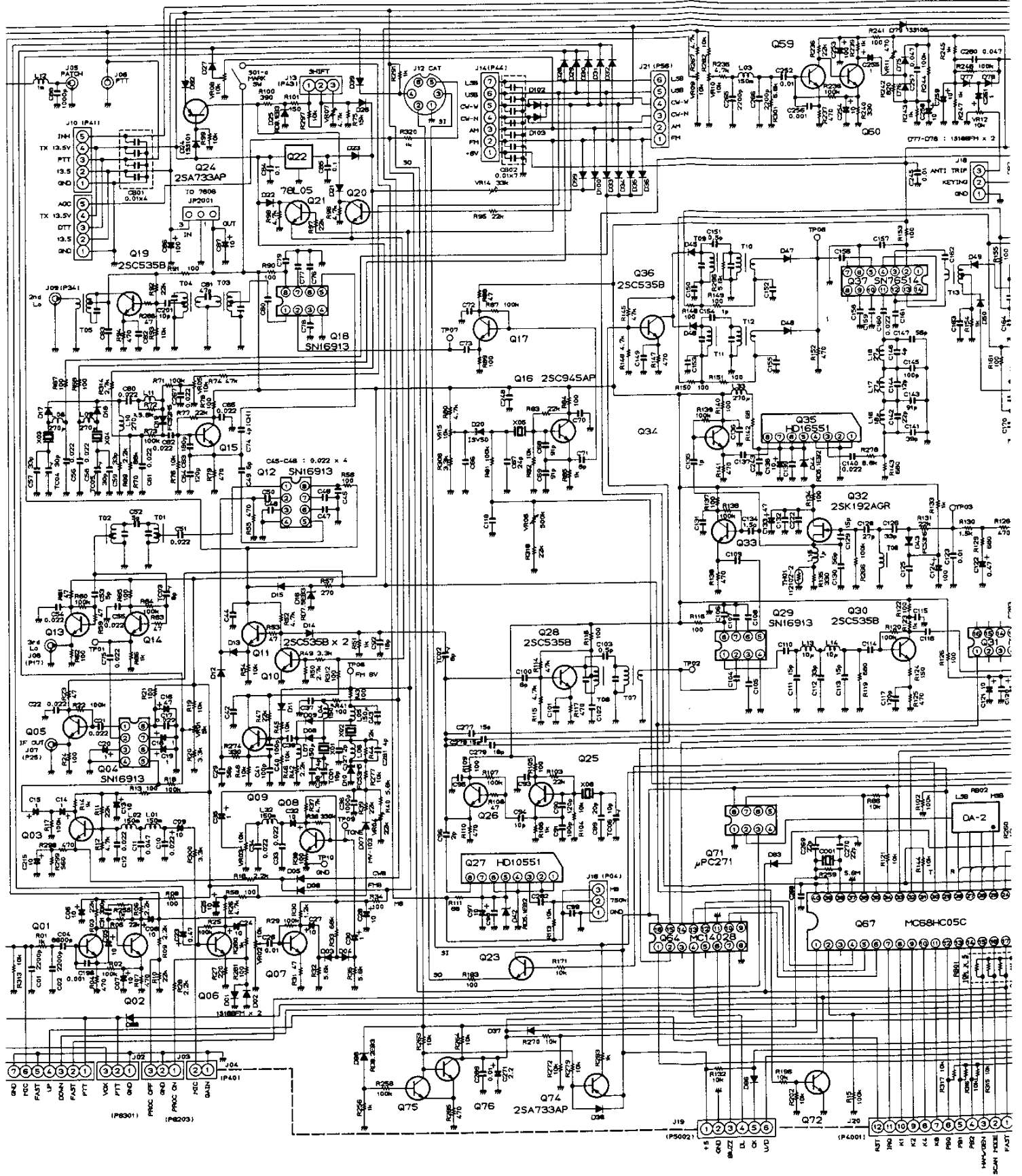
(DC VOLTS)

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

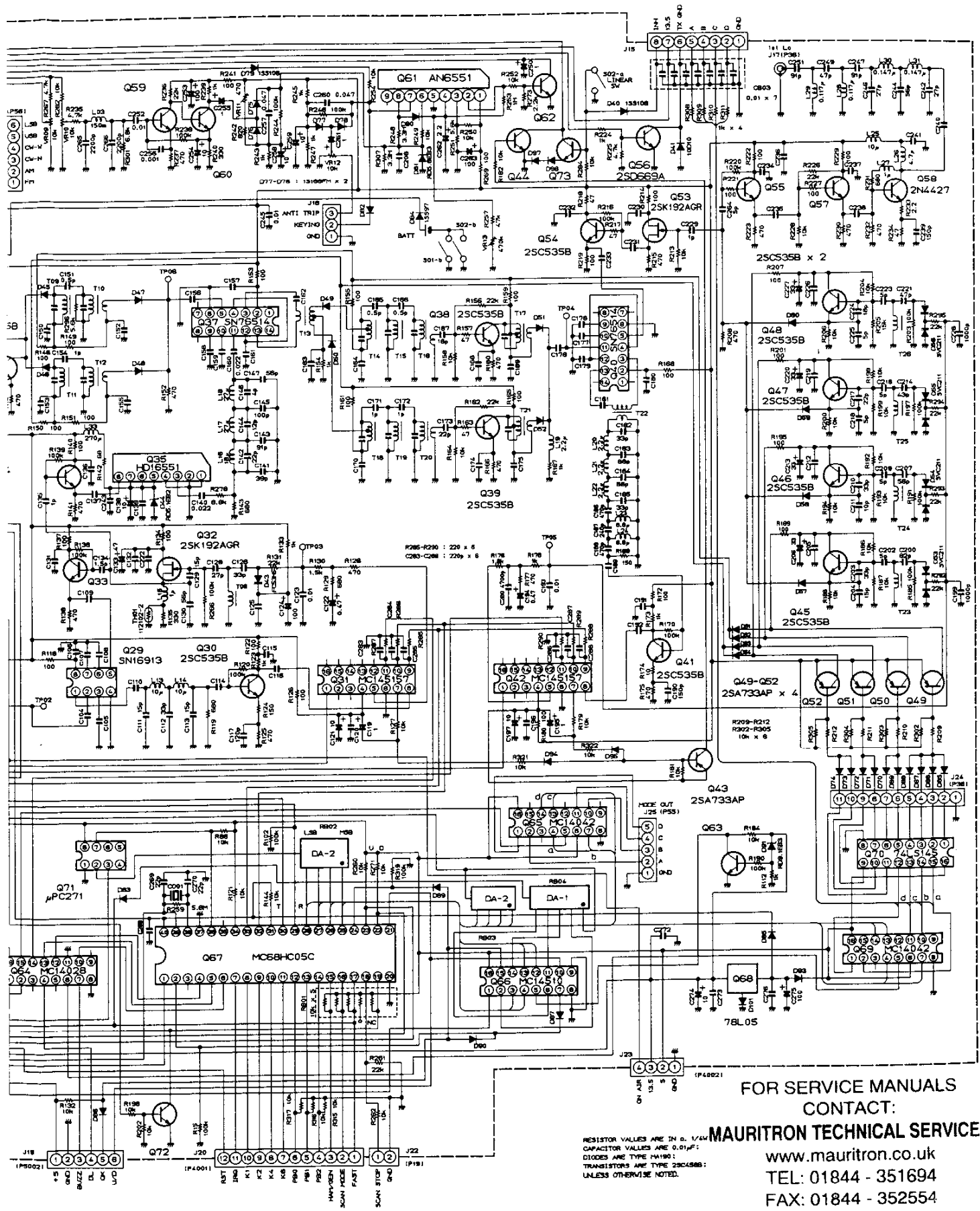
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LOCAL UNIT SCHEMATIC DIAGRAM

LOCAL UNIT F2718000C (No. 2xxx)



SCHEMATIC DIAGRAM



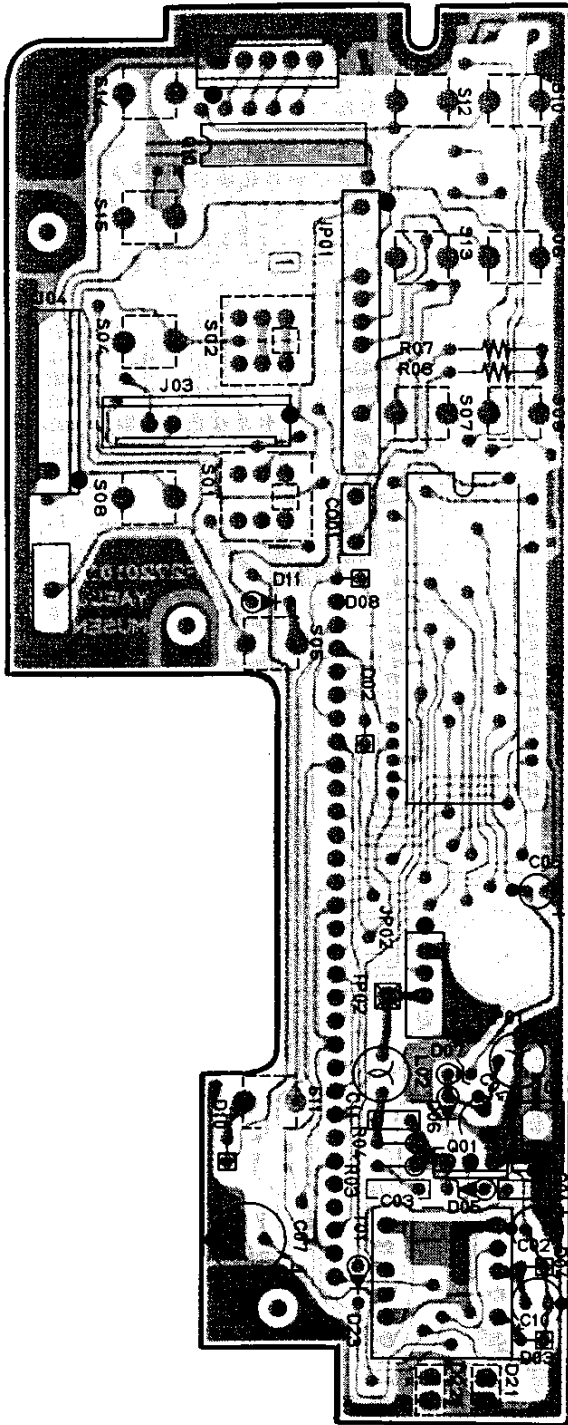
RESISTOR VALUES ARE IN Ω, 1/kΩ
 CAPACITOR VALUES ARE 0.01μF;
 DIODES ARE TYPE M1490;
 TRANSISTORS ARE TYPE 2SC6693A;
 UNLESS OTHERWISE NOTED.

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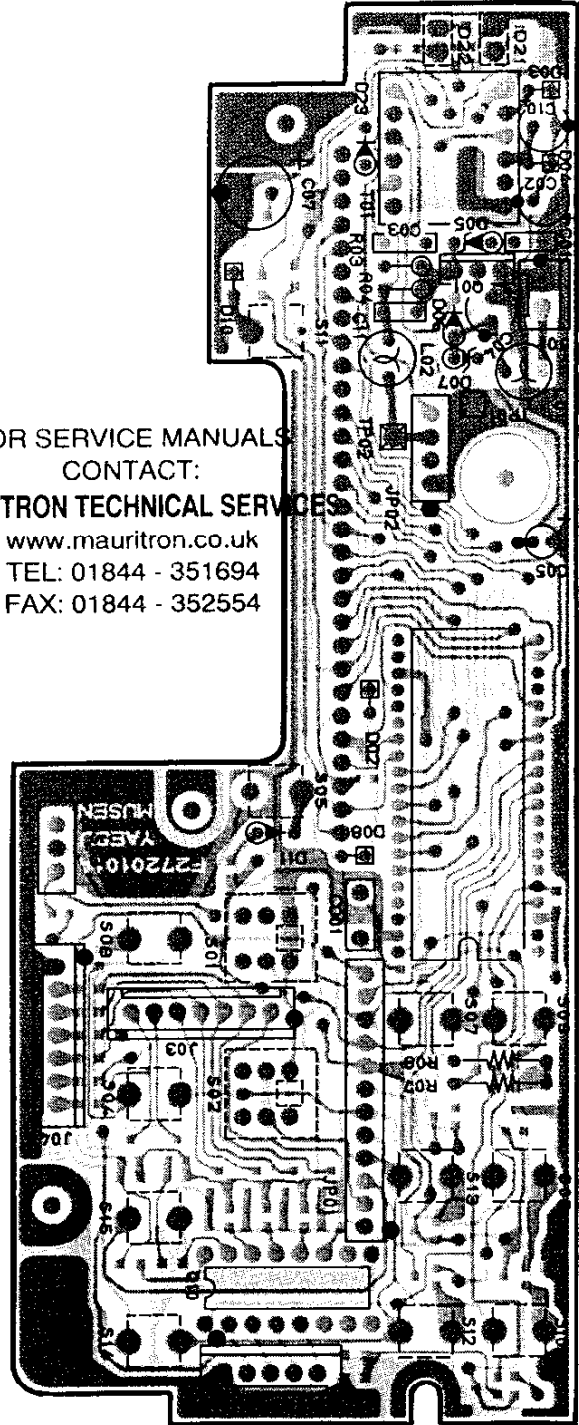
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DISPLAY UNIT PARTS LAYOUT

Component Side



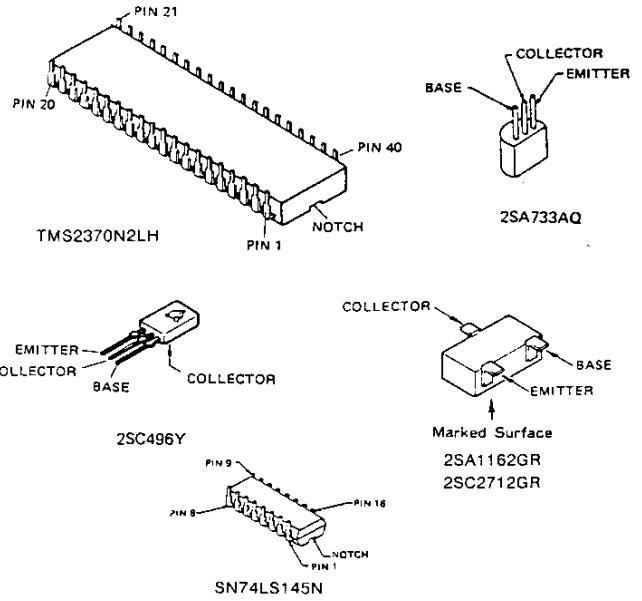
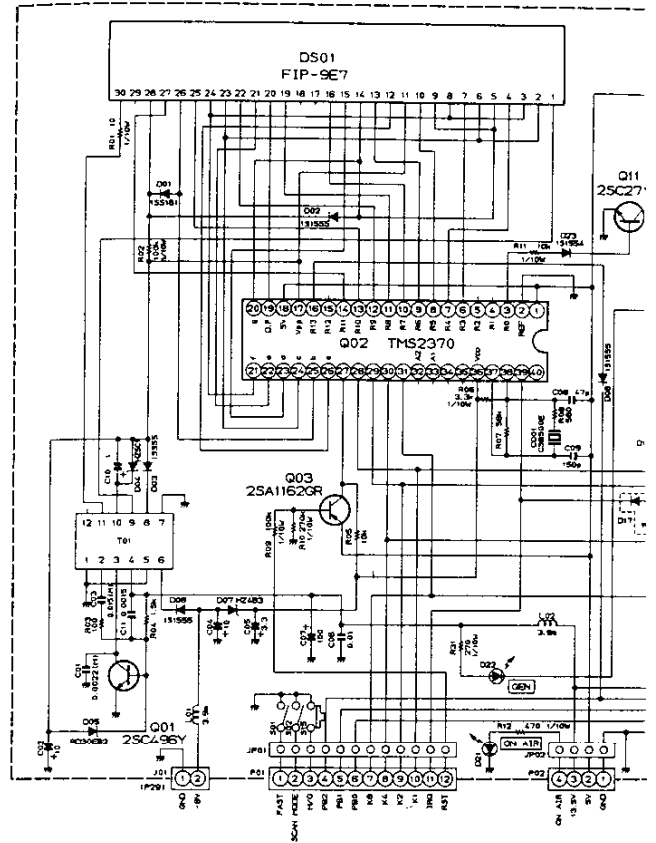
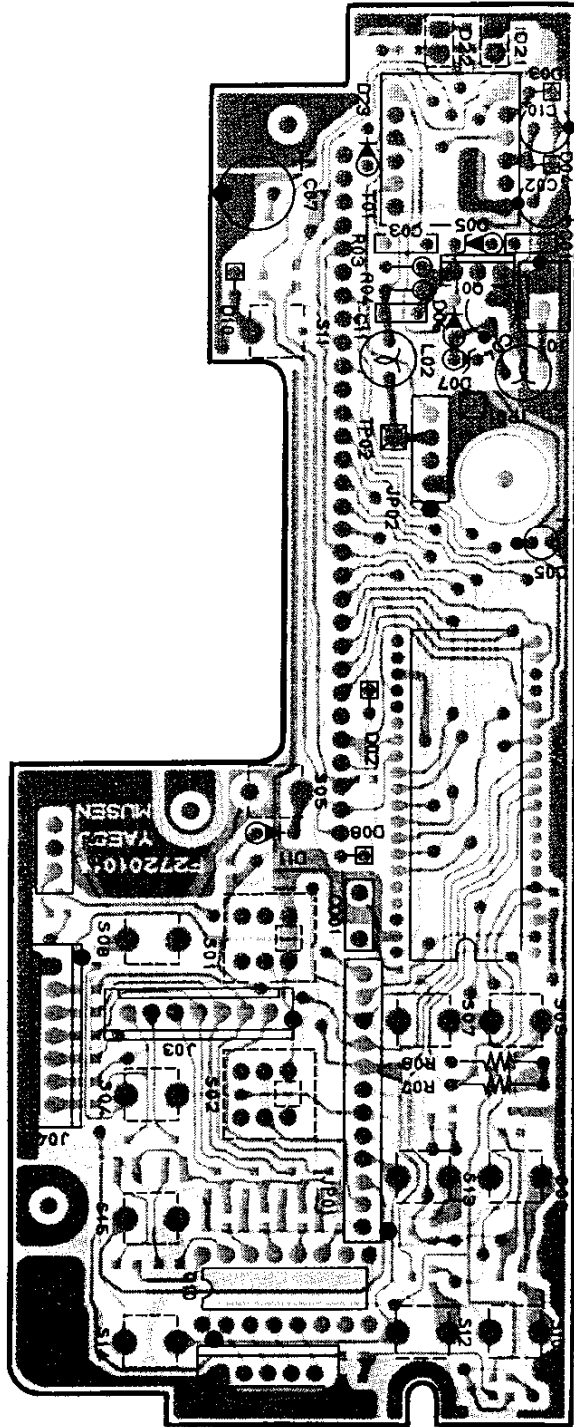
Solder Side



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7 UNIT PARTS LAYOUT

Solder Side

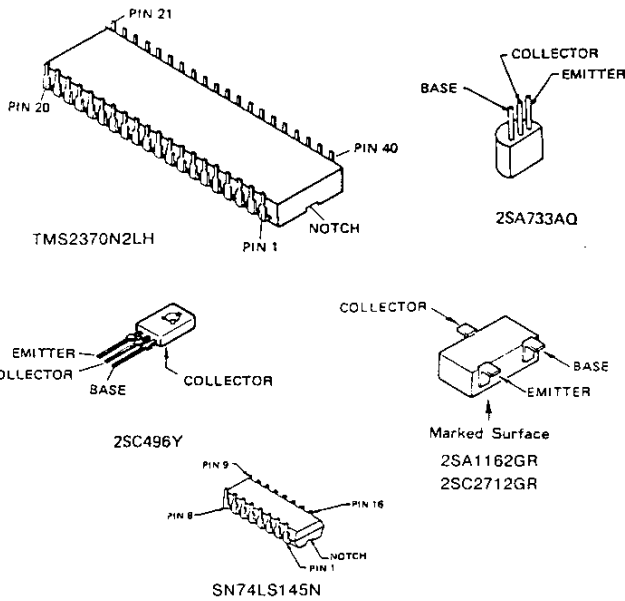
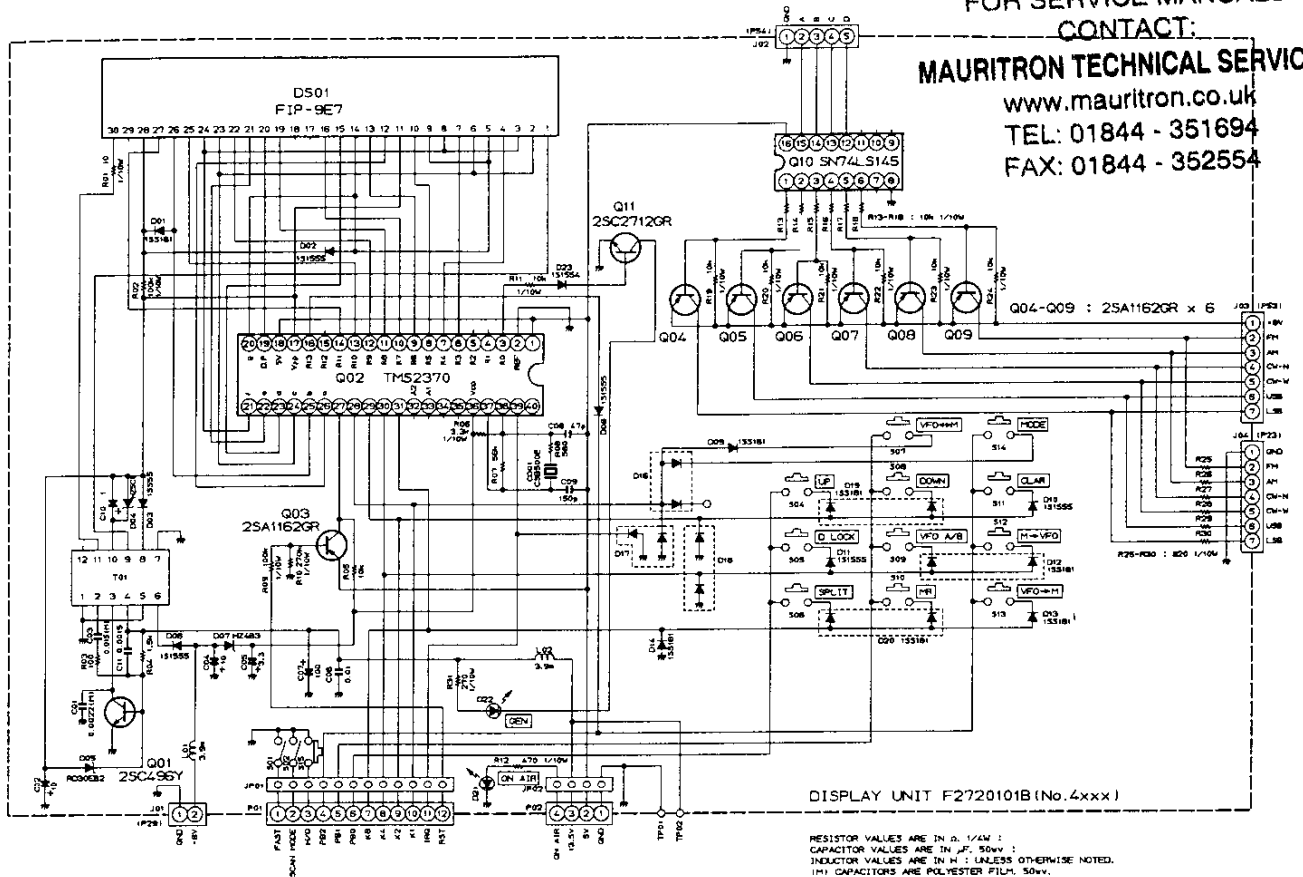


DISPLAY UNIT I

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

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DISPLAY UNIT VOLTAGE CHART

(DC VOLTS)

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

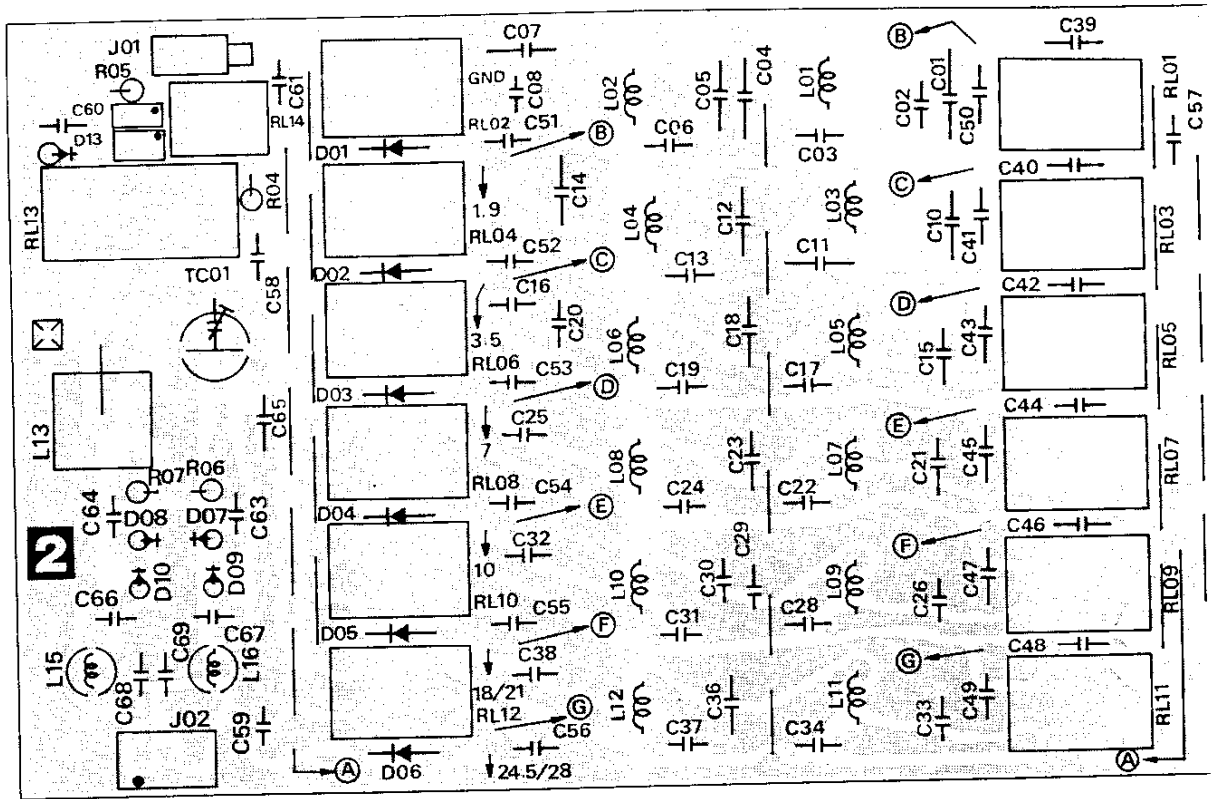
DISPLAY UNIT IC VOLTAGE CHART

(DC VOLTS)

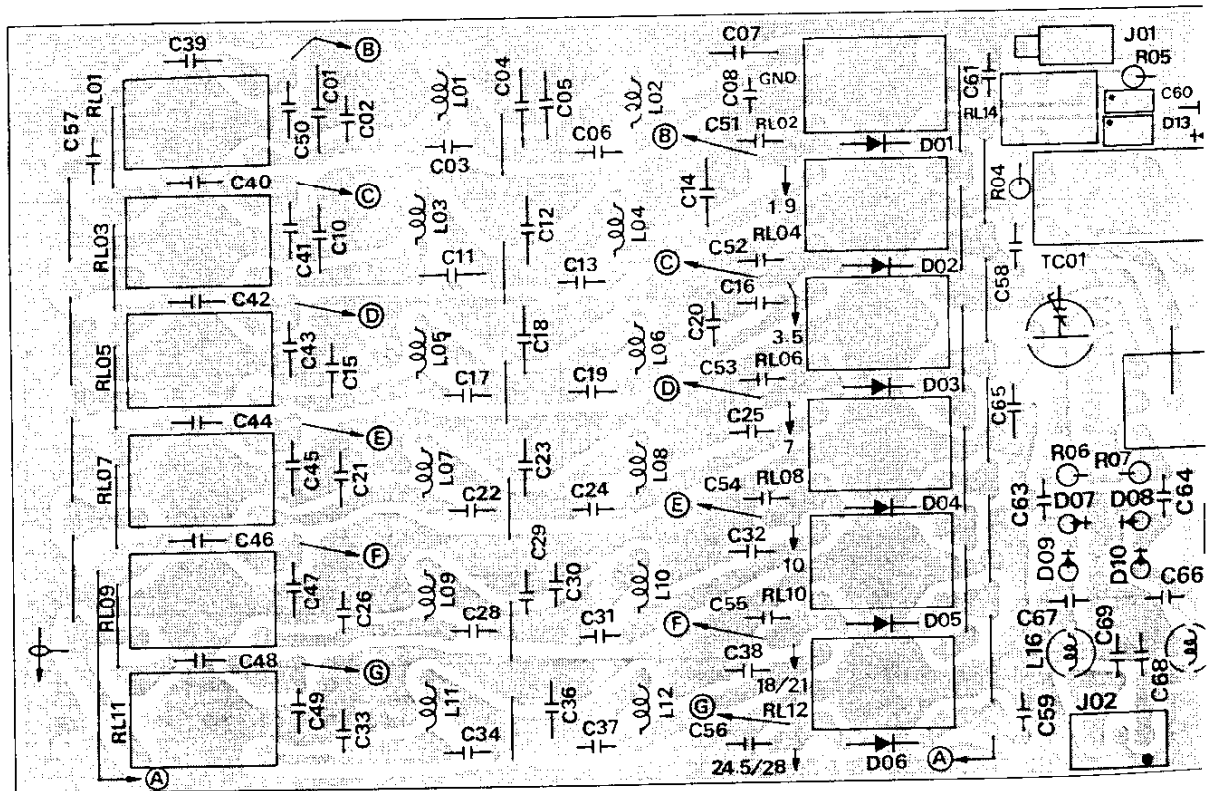
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | REMARKS |
|-------|-----|-----|-----|-----|-----|-----|---|---|---|----|----|-----|-----|-----|-----|-----|-----------|
| Q4010 | 0.1 | 7.4 | 7.4 | 7.4 | 7.2 | 7.4 | - | 0 | - | - | - | 0.1 | 0.1 | 0.1 | 0.1 | 5.0 | MODE LSB |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

LPF UNIT PARTS LAYOUT

Component Side

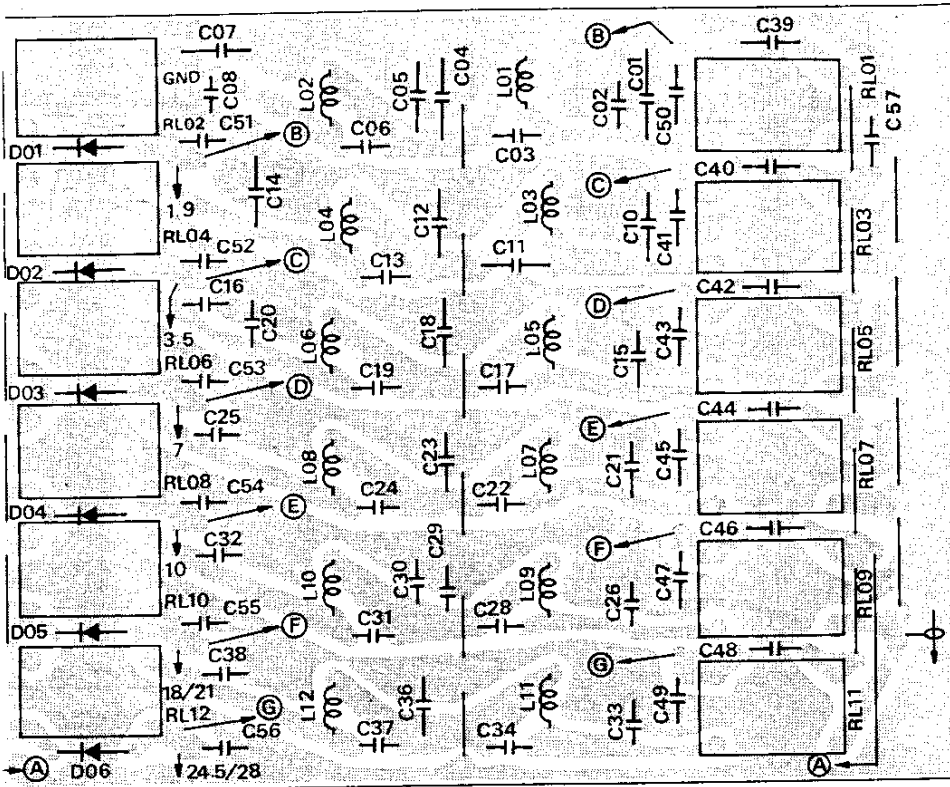


Solder Side

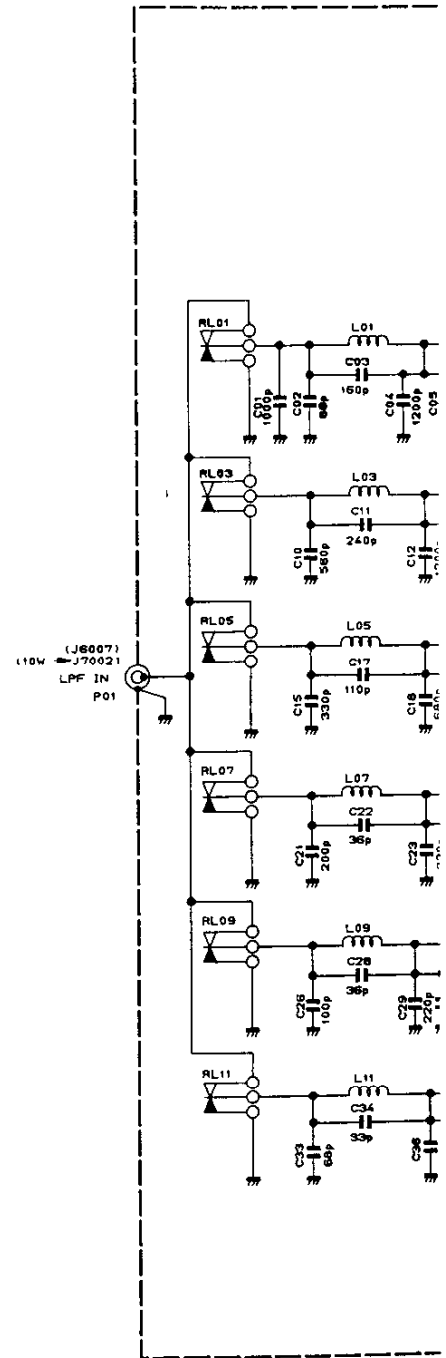
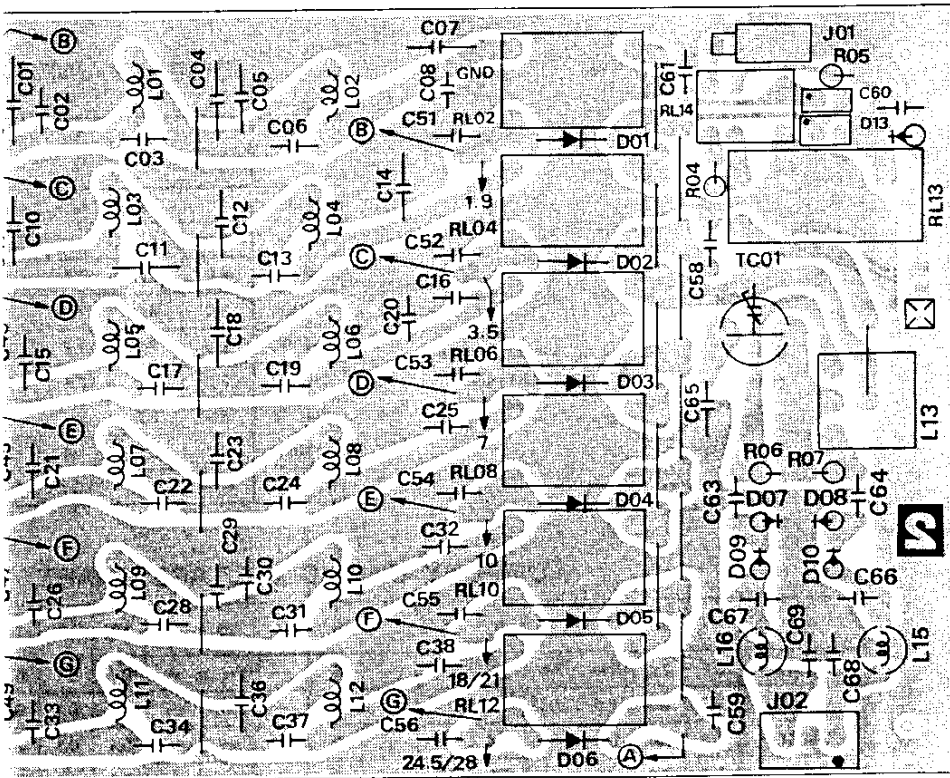


LPF UNIT PARTS LAYOUT

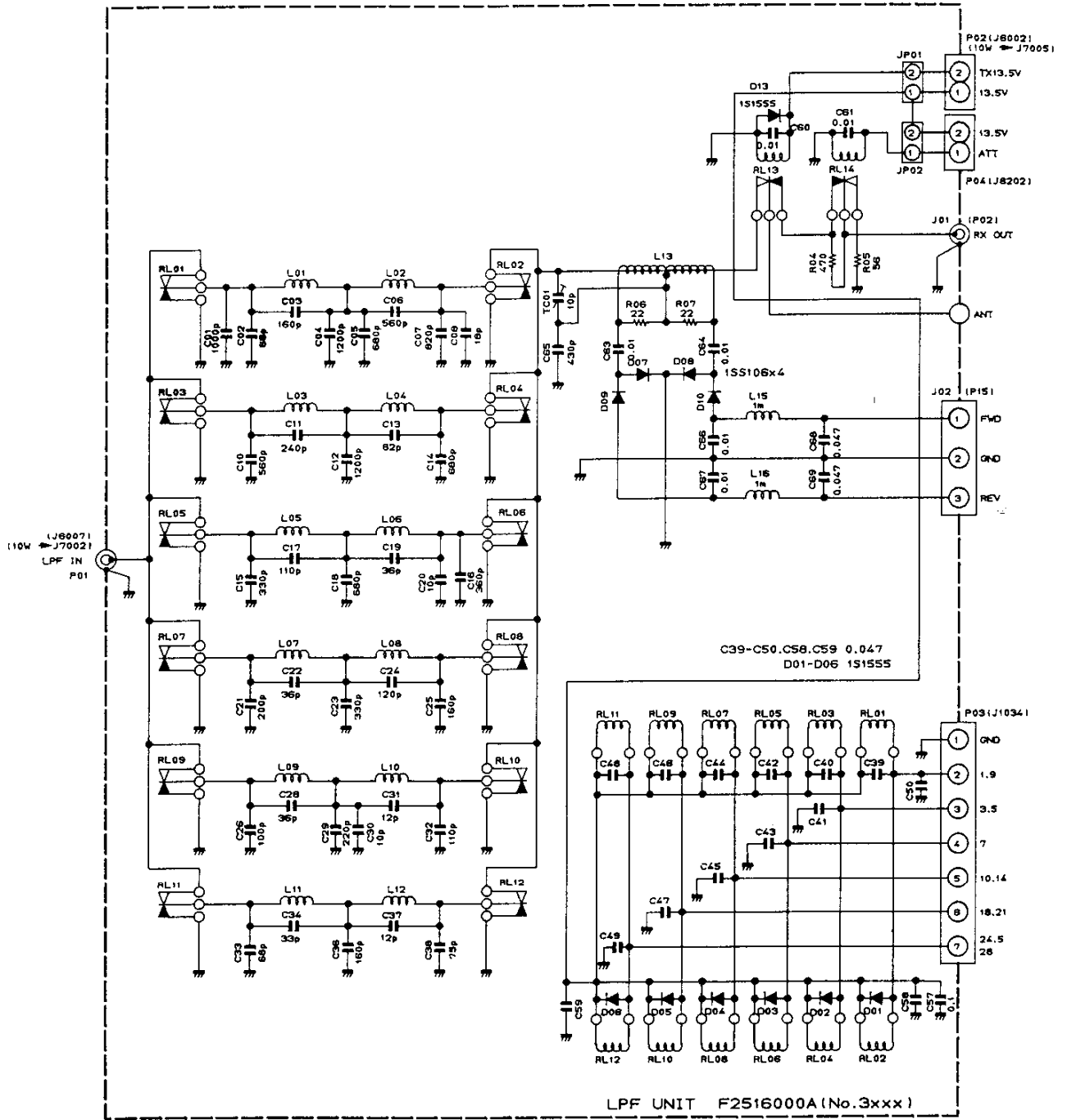
Component Side



Solder Side



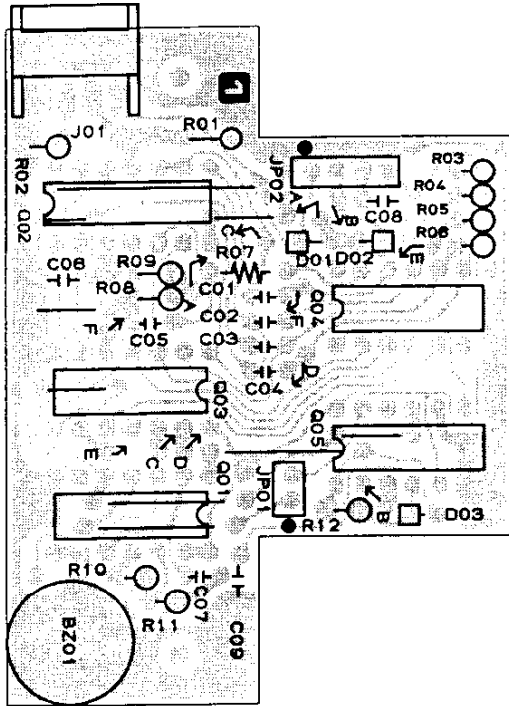
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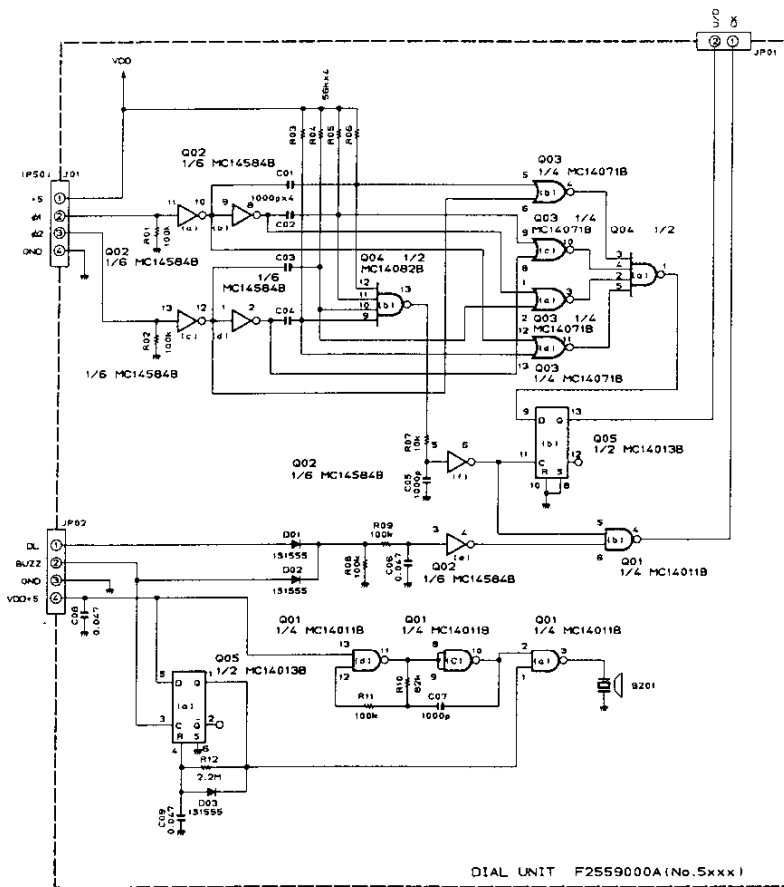
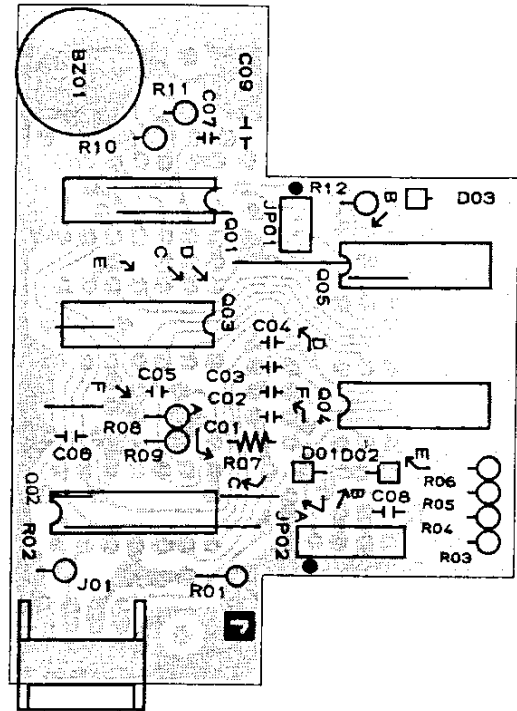
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DIAL UNIT PARTS LAYOUT

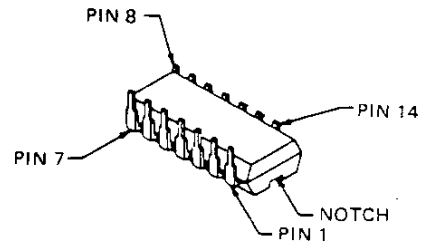
Component Side



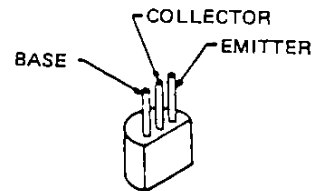
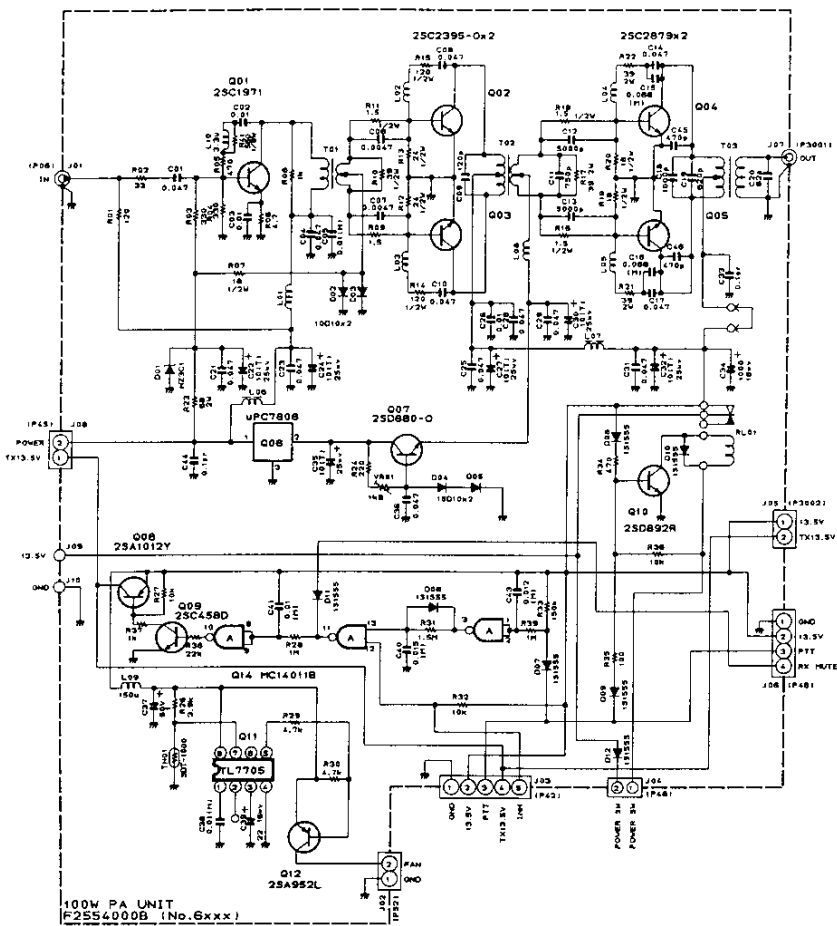
Solder Side



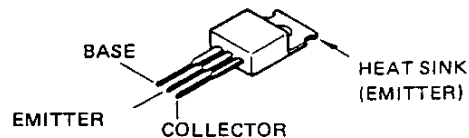
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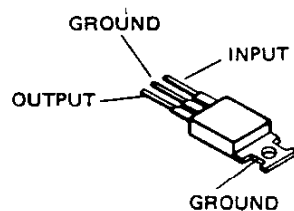
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- MC14082BCP
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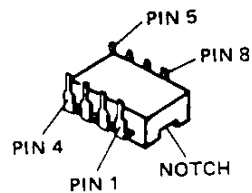
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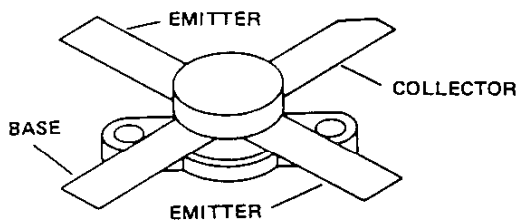
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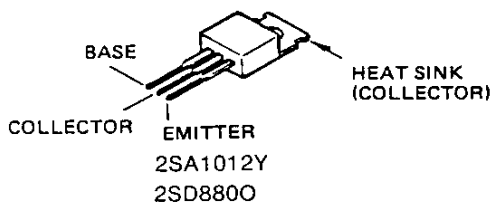
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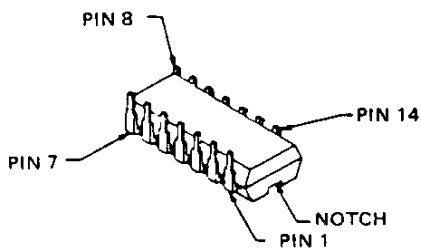
TL7705



2SC2395
2SC2879



2SA1012Y
2SD8800



MC14011BCP

100W PA UNIT VOLTAGE CHART

(DC VOLTS)

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

100W PA UNIT IC VOLTAGE CHART (DC VOLTS)

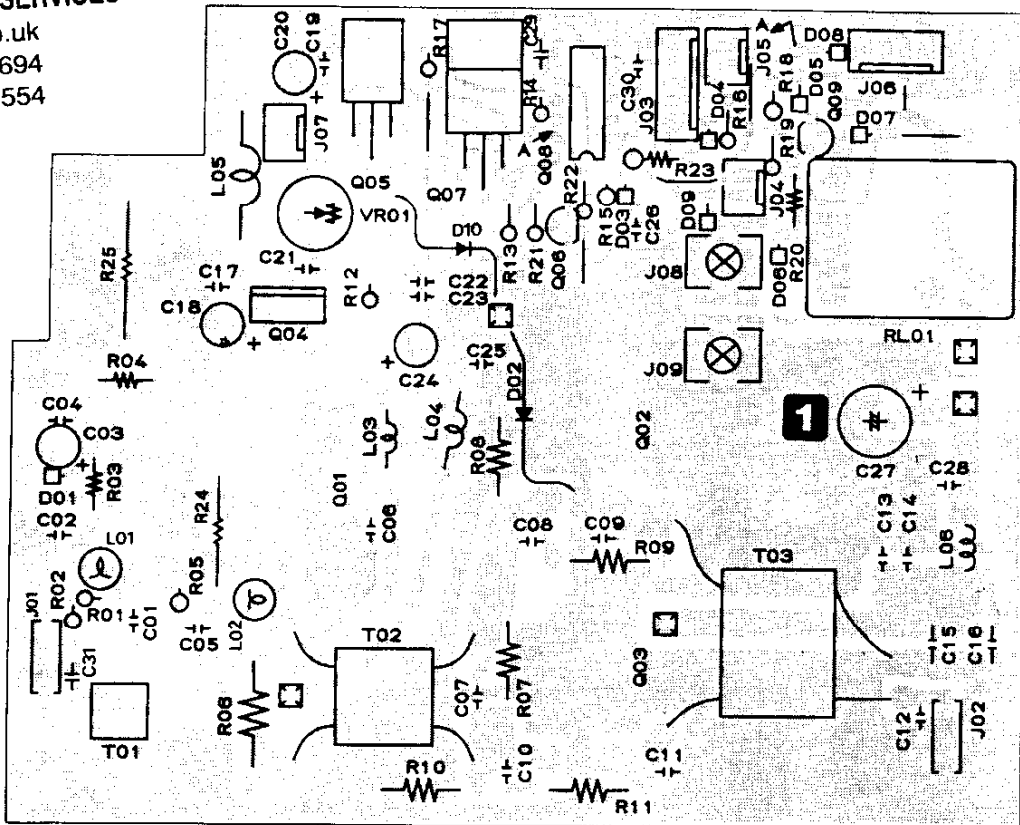
| Q# | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | REMARKS |
|-------|-----|------|------|---|------|---|------|------|------|------|------|------|------|----|----------|
| Q6011 | 2.5 | — | 3.2 | 0 | 13.5 | — | — | 13.5 | | | | | | | FAN STOP |
| Q6014 | 2.3 | 12.3 | 0 | — | — | 0 |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

10W PA UNIT PARTS LAYOUT

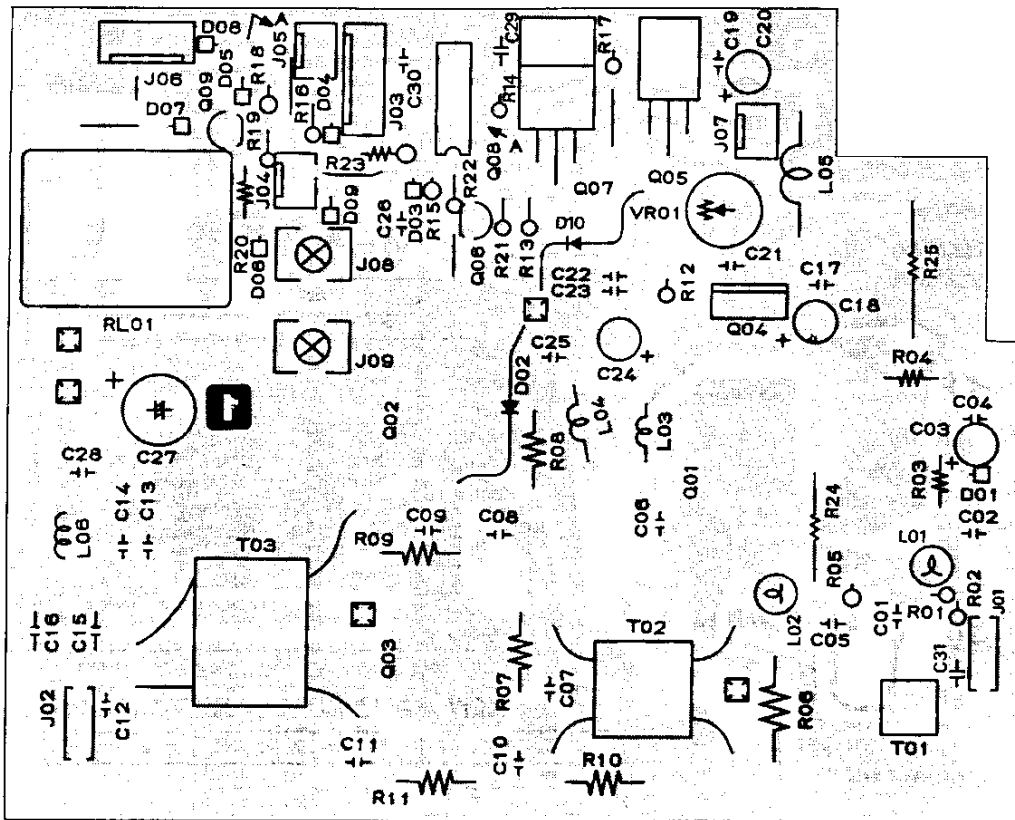
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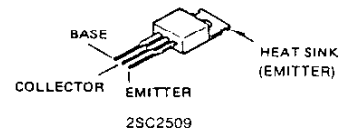
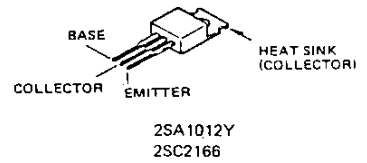
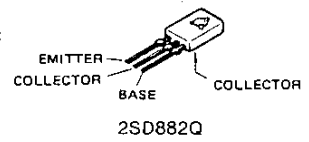
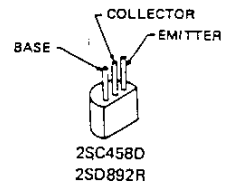
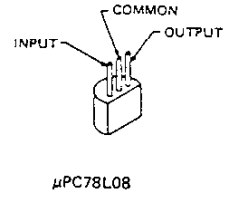
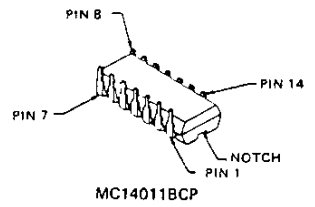
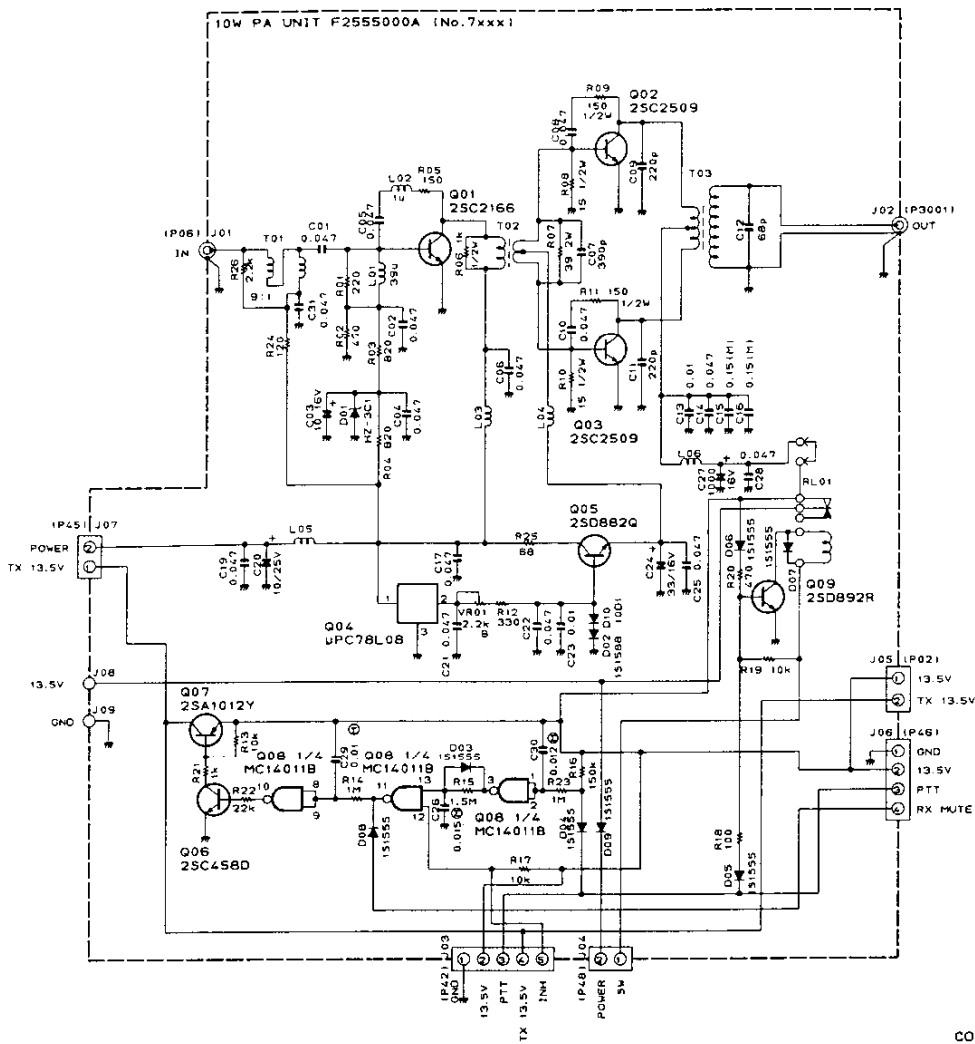
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Component Side



Solder Side





10W PA UNIT VOLTAGE CHART

(DC VOLTS)

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

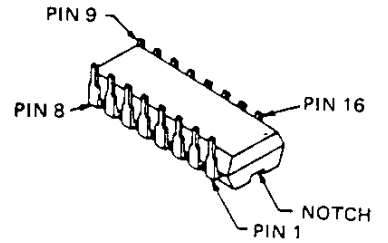
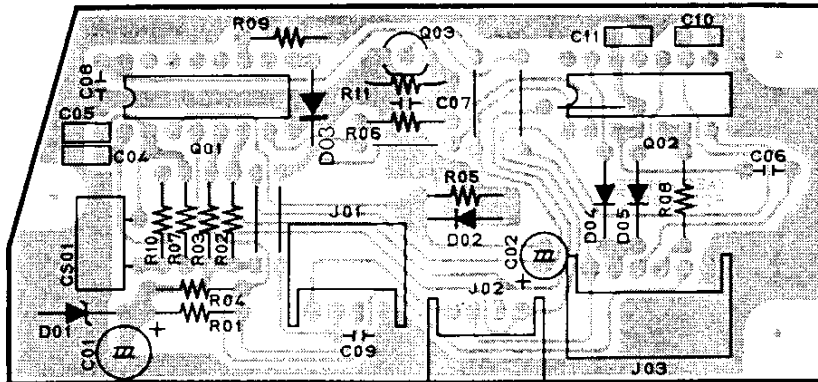
10W PA UNIT IC VOLTAGE CHART

(DC VOLTS)

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

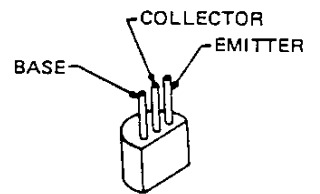
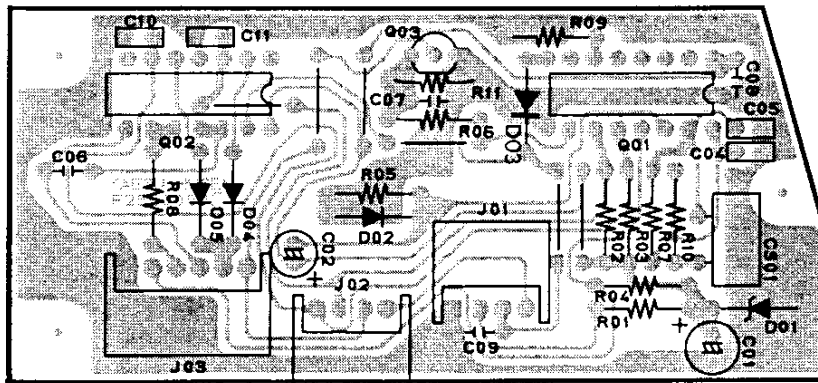
KEYER UNIT PARTS LAYOUT

Component Side



MC14049UBCP
TMS1751C

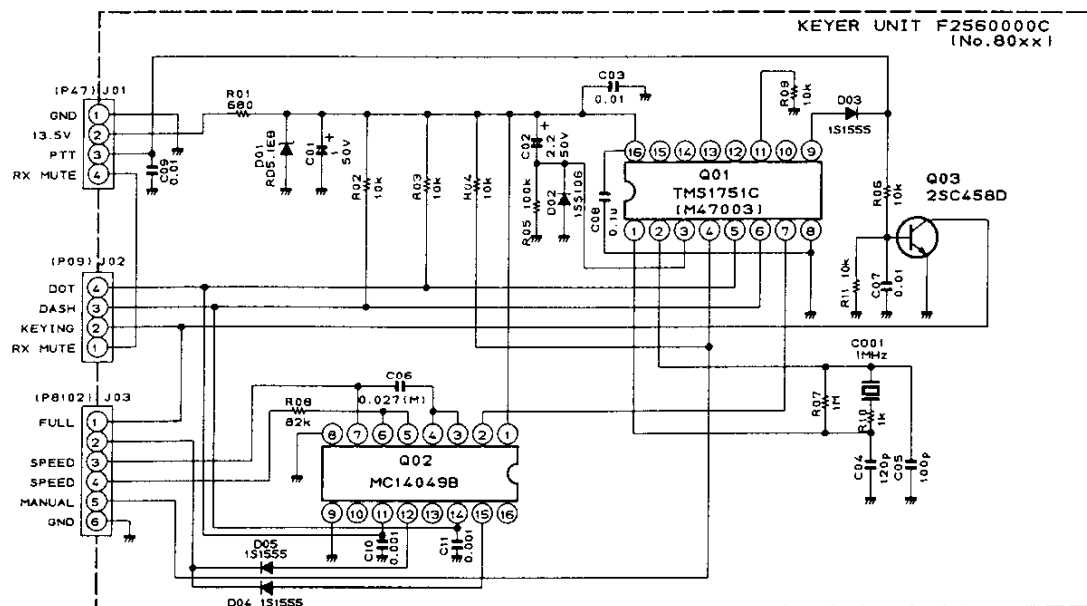
Solder Side



2SC458D
FOR SERVICE MANUALS
CONTACT:

MAURITRON TECHNICAL SERVICES

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



KEYER UNIT VOLTAGE CHART

(DC VOLTS)

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

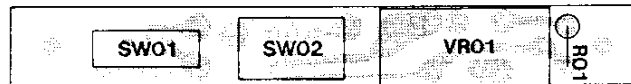
KEYER UNIT IC VOLTAGE CHART

(DC VOLTS)

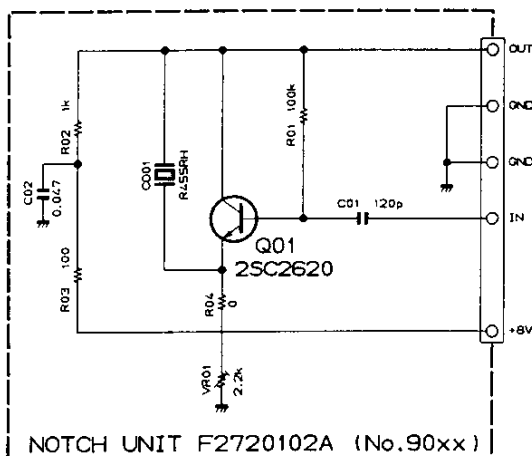
| PIN No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | REMARKS |
|---------|-----|---|---|-----|-----|-----|---|---|-----|----|-------|----|----|-------|----|-----|------------|
| Q8001 | — | — | — | 0 | — | — | — | — | — | — | — | — | — | — | — | 4.8 | AUTO |
| Q8001 | —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

KEYER CONTROL UNIT

Component Side



Solder Side

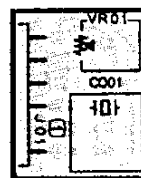


NOTCH UNIT F2720102A (No.90xx)

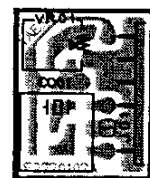
RESISTOR VALUES ARE IN Ω, 1/10W ;
CAPACITOR VALUES ARE IN μF, 50V ;
UNLESS OTHERWISE NOTED.

NOTCH UNIT

Component Side

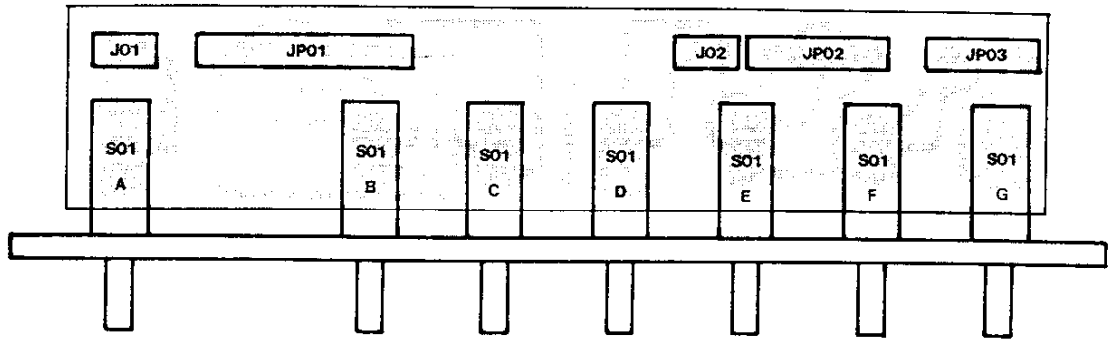


Solder Side

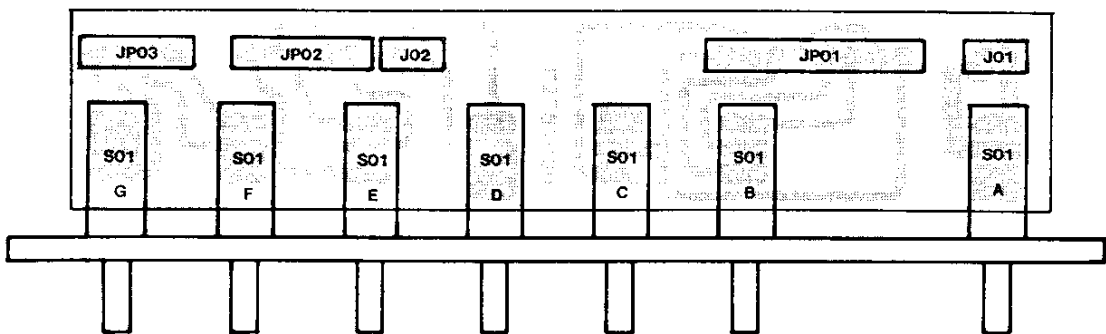


SWITCH UNIT A

Component Side

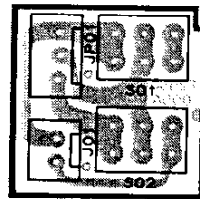


Solder Side

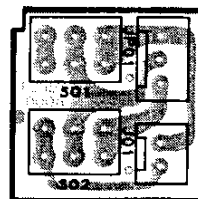


SWITCH UNIT B

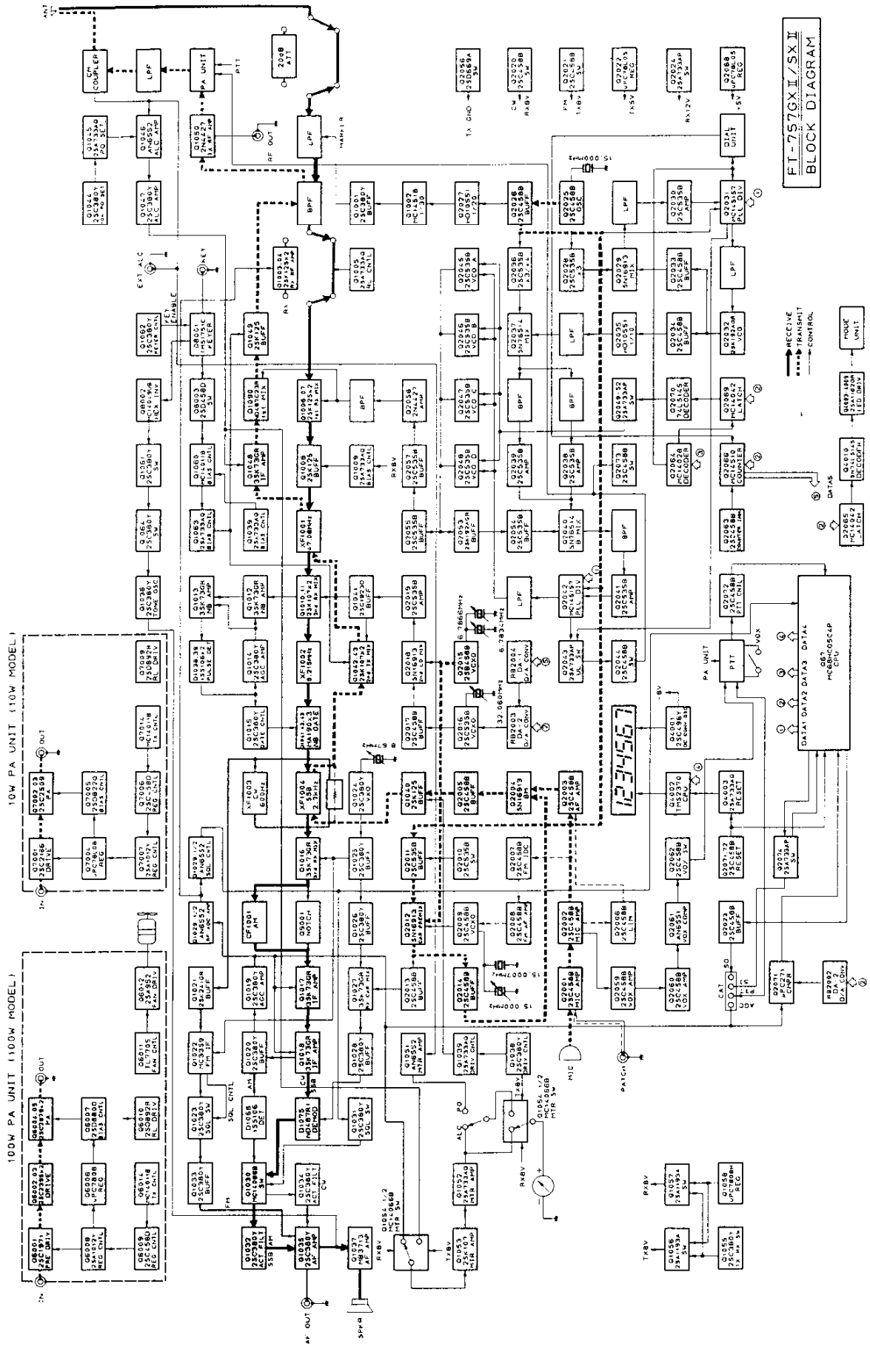
Component Side



Solder Side



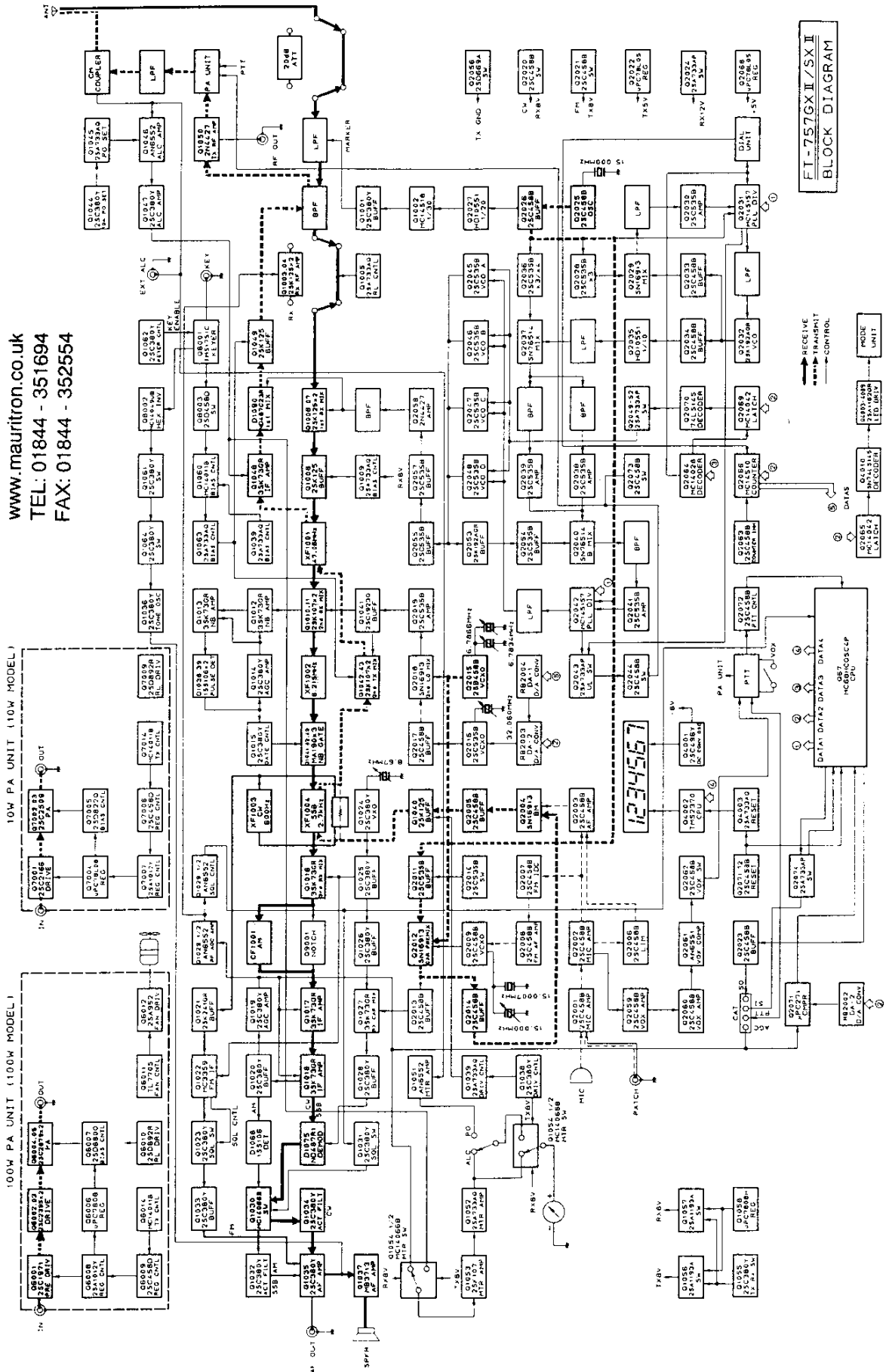
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TEL: 01844 - 351694
FAX: 01844 - 352554



FT-757GX II/SX II
BLOCK DIAGRAM

SIGNAL PATHS : SSB

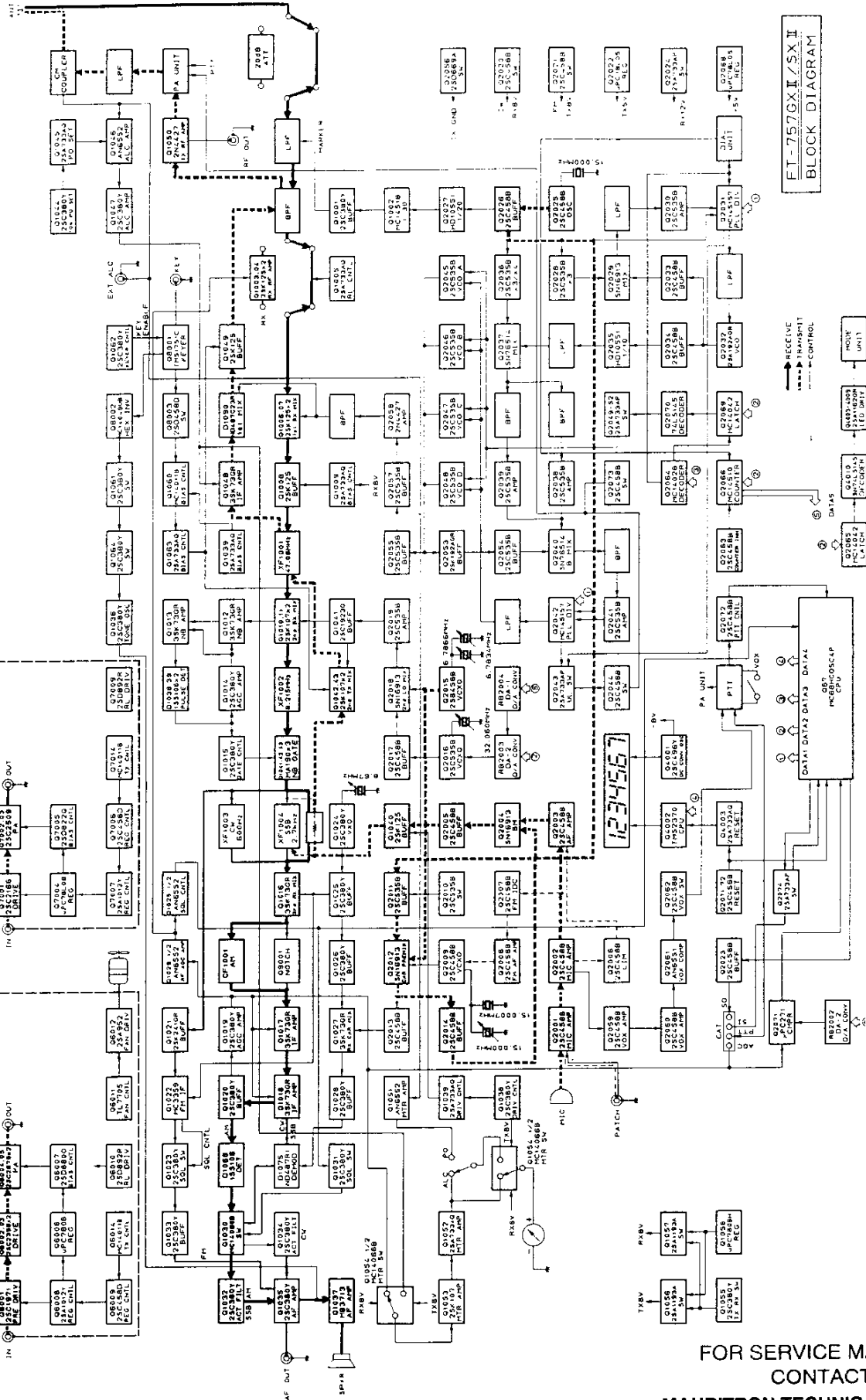
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SIGNAL PATHS : CW

100W PA UNIT (100W MODEL)

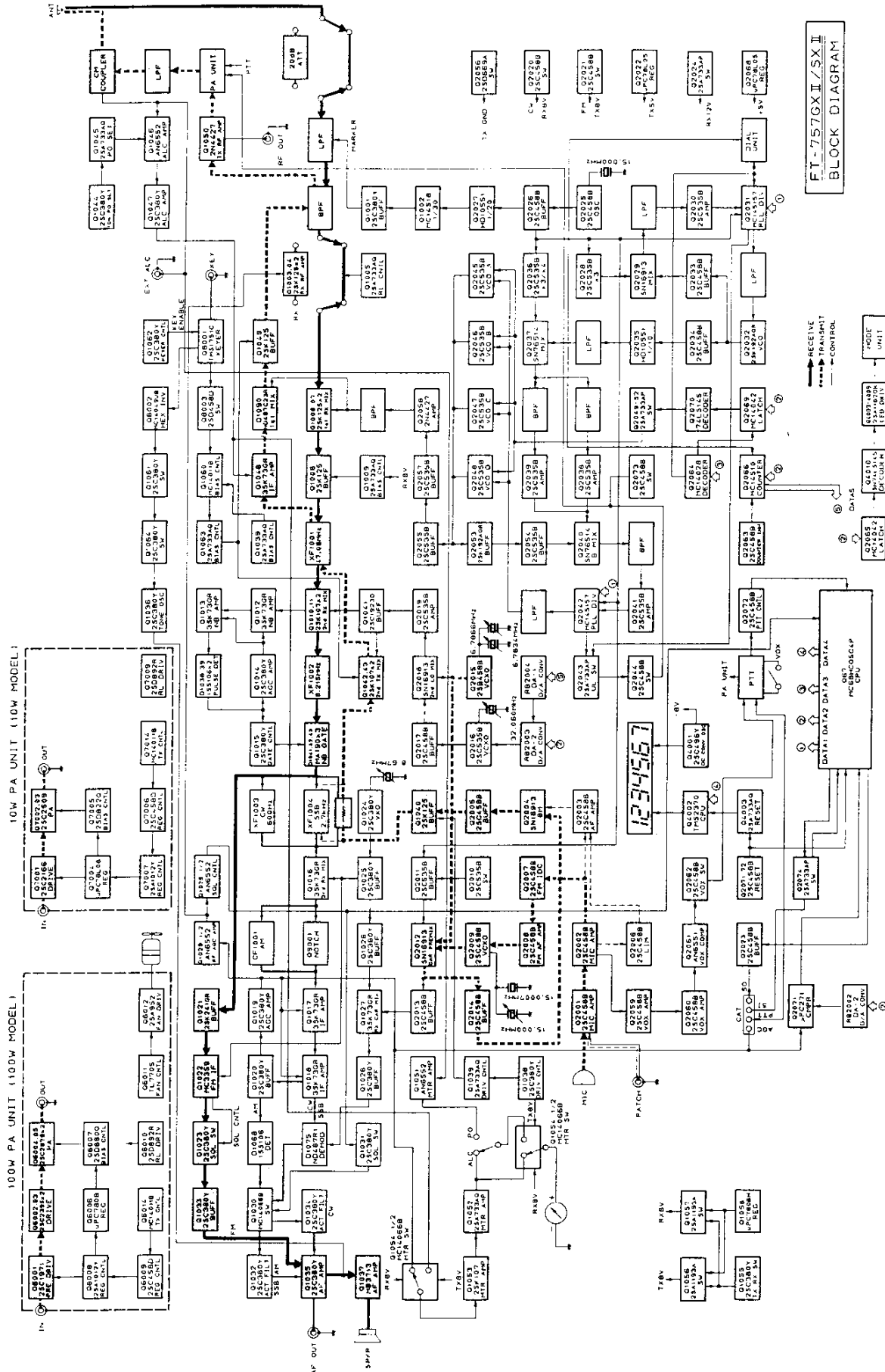
10W PA UNIT (110W MODEL)



FT-757GX II / SX II
BLOCK DIAGRAM

SIGNAL PATHS : AM

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FAX: 01844 - 352554



FT-757GX II/SX II
BLOCK DIAGRAM

SIGNAL PATHS : FM

COMPONENT APPLICATIONS

MAIN CHASSIS

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

RF UNIT

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

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

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

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

DISPLAY UNIT

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

DIAL UNIT

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

100W PA UNIT

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

10W PA

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

| | | | |
|-------|------------|----------------|-----------------------------------|
| 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, KEYER |
| 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) |
| | | ROTARY ENCODER | Q1039 | G3107331Q 2SA733AQ |
| | Q9000249 | Z99-W-09 (M8307009) | Q1056, 1057 | G3111930K 2SA1193K |
| | | | Q1001, 1014, 1015, 1019, 1020, 1023, 1024, 1026, 1028, 1031, 1036, 1038, 1044, 1047, 1055, 1061, 1062, 1064-1066 | G3303800Y 2SC380TMY |
| | | MOTOR | | |
| MOTOR 1 | M2190004 | MDN-7R1 | | |
| | R3500250 | Radial FAN | | |
| | | | Q1035, 1041 | G3318150Y 2SC1815Y |

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

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|--|--|--------------------------|-------------------------------|-----------|---|
| R1005, 1017, 1030, 1049, 1054, 1055, 1068, 1070, 1092, 1100, 1112, 1115, 1117, 1129, 1146, 1152, 1155, 1161, 1179, 1180, 1182, 1184, 1191, 1194, 1201, 1203, 1206, 1212, 1215, 1217, 1238, 1241, 1245, 1247, 1249, 1252, 1255, 1261, 1262, 1266, 1267, 1270-1272, 1275, 1277 | J02245103 | Carbon Film 1/4W SJ 10kΩ | | | POTENTIOMETERS |
| | | | VR1001 | J51745332 | H0651A010-3.3KB 3.3kΩB |
| | | | VR1005-1007 | J51745472 | H0651A011-4.7KB 4.7kΩB |
| | | | VR1002, 1004, 1008, 1010 | J51745103 | H0651A013-10KB 10kΩB |
| | | | VR1003 | J51745473 | H0651A017-47KB 47kΩB |
| | | | VR1011 | J51745105 | H0651A025-1MB 1MΩB |
| | | | VR1009 | J51757474 | H1052C023-470KB 470kΩB |
| | | | VR1012 | J51745102 | H0651A007-10KB 1kΩ |
| | | | | | |
| | | | | | CAPACITORS |
| R1089 | J01215103 | " " 1/8W TJ 10kΩ | C1068 | K00172040 | Ceramic Disc 50WV SL 4pF (DD104SL040C50) |
| R1052, 1177, 1282, 1284, 1285 | J24205103 | Chip Resistor 1/10W 10kΩ | C1003, 1052, 1054 | K00172050 | " " " " 5pF (DD104SL050C50) |
| R1010, 1106, 1158, 1195 | J02245153 | Carbon Film 1/4W SJ 15kΩ | C1045, 1047 | K00173080 | " " " " 8pF (DD104SL080D50) |
| R1278 | J01245153 | " " " TJ 15kΩ | C1152 | K00173100 | " " " " 10pF (DD104SL100J50) |
| R1004, 1113, 1119, 1120, 1123, 1147, 1163, 1190, 1248, 1253, 1259 | J02245223 | " " " SJ 22kΩ | C1030, 1034 | K00175120 | " " " " 12pF (DD104SL120J50) |
| R1006 | J24205273 | Chip Resistor 1/10W 27kΩ | C1041 | K00175150 | " " " " 15pF (DD104SL150J50) |
| R1003, 1086, 1156, 1174, 1240 | J02245333 | Carbon Film 1/4W SJ 33kΩ | C1007, 1038, 1040, 1095, 1173 | K00175220 | " " " " 22pF (DD104SL220J50) |
| R1048, 1069, 1084, 1104, 1130, 1265, 1276 | J02245473 | " " " " 47kΩ | C1031, 1033 | K00179007 | " " " " 30pF (DD104SL300J50) |
| R1026 | J24205473 | Chip Resistor 1/10W 47kΩ | C1053, 1114 | K00175330 | " " " " 33pF (DD104SL330J50) |
| R1165, 1207, 1213 | J02245683 | Carbon Film 1/4W SJ 68kΩ | C1024, 1026 | K00175390 | " " " " 39pF (DD104SL390J50) |
| R1021, 1027, 1032, 1033, 1039, 1040, 1044, 1058, 1081, 1087, 1094, 1101, 1114, 1118, 1126, 1131, 1135, 1144, 1145, 1169, 1170, 1193, 1205, 1209, 1211, 1214, 1216, 1239, 1260, 1264, 1281 | J02245104 | " " " " 100kΩ | C1002 | K00175470 | " " " " 47pF (DD104SL470J50) |
| | FOR SERVICE MANUALS CONTACT: MAURITRON TECHNICAL SERVICES www.mauritron.co.uk TEL: 01844 - 351694 FAX: 01844 - 352554 | | C1039, 1046, 1079 | K00175470 | " " " " 47pF (DD104SL470J50) |
| | | | C1016, 1020, 1272-1277 | K00175560 | " " " " 56pF (DD104SL560J50) |
| | | | C1004 | K00175680 | " " " " 68pF (DD104SL680J50) |
| | | | C1270, 1271 | K02175820 | " " " CH 82pF (DD107CH820J50) |
| | | | C1023, 1027 | K00175820 | " " " SL 82pF (DD104SL820J50) |
| | | | C1005 | K22170133 | Chip Capacitor 50WV SL 82pF (C2012SL1H820JFA) |
| | | | C1086, 1089, 1137, 1150, 1176 | K00175101 | Ceramic Disc 50WV SL 100pF (DD105SL101J50) |
| | | | C1012 | K00179015 | " " " " 110pF (DD105SL111J50) |
| | | | C1032 | K00175121 | " " " " 120pF (DD105SL121J50) |
| | | | C1006, 1157 | K00175151 | " " " " 150pF (DD106SL151J50) |
| | | | C1018 | K00175181 | " " " " 180pF (DD106SL181J50) |
| | | | C1175 | K00175221 | " " " " 220pF (DD107SL221J50) |
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|--|-----------|---|---|-----------|--|
| 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-1R0M 1μH |
| | | | L1034, 1038, 1045, 1049, 1051, 1057 | L1190187 | LHL06NA102K 1mH |
| | | | L1040-1043 | L1190121 | S4-101K 100μH |
| | | | L1044 | L0021394 | |

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

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

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|--------------------|-----------|--|---|-----------|--|
| C2129 | K02175150 | Ceramic Disc 50WV CH 15pF (DD104CH150J50) | C2190 | K00175151 | Ceramic Disc 50WV SL 150pF (DD106SL151J50) |
| C2204 | K06175150 | " " " UJ 15pF (DD104UJ150J50) | C2239 | K02175151 | " " " CH 150pF (DD109CH151J50) |
| C2167, 2279 | K00175180 | " " " SL 18pF (DD104SL180J50) | C2063 | K02179023 | " " " " 180pF (DD110CH181J50) |
| C2224 | K06175180 | " " " UJ 18pF (DD104UJ180J50) | C2283, 2288 | K22170143 | Ceramic Chip 50WV SL 220pF (C2012SL1H221JFA) |
| C2092 | K22170217 | Chip Ceramic 50WV CH 18pF (C2012CH1H180JFA) | C2187 | K00179020 | Ceramic Disc 50WV SL 240pF (DD107SL241J50) |
| C2089 | K02179008 | Ceramic Disc 50WV CH 20pF (DD104CH200J50) | C2031 | K00175331 | " " " " 330pF (DD107SL331J50) |
| C2217 | K06175220 | " " " UJ 22pF (DD104UJ220J50) | C2186, 2188 | K00175471 | " " " " 470pF (DD109SL471J50) |
| C2142, 2173 | K00175220 | " " " SL 22pF (DD104SL220J50) | C2088 | K22170805 | Chip Ceramic 50WV B 0.001µF (C2012BIH102MFA) |
| C2038, 2067 | K02179010 | " " " CH 24pF (DD104CH240J50) | C2036, 2198, 2199, 2228, 2256 | K12171102 | Ceramic Disc 50WV E 0.001µF (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 (C2012BIH103MFA) |
| C2130 | K05175560 | " " " RH 56pF (DD106RH560J50) | C2017, 2021, 2022, 2045-2048, 2051, 2054-2056, 2058, 2060-2062, 2065, 2075, 2140, 2160, 2267 | K13179010 | Ceramic Disc 50WV F 0.022µF (DD108F223Z50) |
| C2207 | K06179009 | " " " UJ 56pF (DD104UJ560J50) | | | |
| C2183, 2184 | K00175680 | " " " SL 68pF (DD104SL680J50) | C2265, 2266 | K19149005 | Semiconductor Ceramic 25WV 0.0022µF (UAT04X222K-L05AE) |
| C2200 | K06175820 | " " " UJ 82pF (DD106UJ820J50) | | | |
| C2143, 2247, 2251 | K00179013 | " " " SL 91pF (DD105SL910J50) | C2280 | K19149009 | " " " 0.0047µF (UAT05X472K-L05AE) |
| C2068, 2069 | K06179012 | " " " UJ 91pF (DD106UJ910J50) | | | |
| C2145 | K00175101 | " " " SL 100pF (DD105SL101J50) | C2004 | K19149011 | " " " 0.0068µF (UAT05X682K-L05AE) |
| C2040, 2041 | K02175101 | " " " CH 100pF (DD107CH101J50) | C2026, 2123, 2193, 2252 | K19149013 | " " " 0.01µF (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 | |
| | | | | L9190016 | Shield Case |
| | | | | | SWITCHES |
| C2206, 2213, 2220, 2227 | K40129008 | " 16WV 33µF (RE-16V330M) | S2001, 2002 | N4090012 | SPJ-22-A01 |
| C2016 | K40109002 | " 10WV 47µF (RE-10V470M) | | | |
| C2133 | K40109010 | " " 47µF (RC2-10V470M) | J2004, 2022 | P0090191 | CONNECTORS B2B-XHA |
| C2124 | K40109001 | " " 100µF (RE-10V101M) | J2002, 2003, 2013, 2016, 2018 | P0090192 | B3B-XHA |
| C2086, 2253, 2263, 2275 | K40129038 | " 16WV 100µF (RC2-16V101M) | J2012 J2023 J2010, 2011, 2025 J2019, 2021 J2001, 2014 J2015 J2024 J2020 | P0090204 P0090193 P0090194 P0090195 P0090196 P0090209 P0090200 P0090201 | S3B-XHA B4B-XHA B5B-XHA B6B-XHA B7B-XHA S8B-XHA B11B-XHA B12B-XHA |
| | | BLOCK CAPACITORS | | | |
| CB2001 | K80000001 | CA1034 0.01×4 | J2007-2009, 2017 | P1090255 | TMP-JA |
| CB2002, 2003 | K80000003 | CA1037 0.01×7 | J2005 J2006 P2001 with wire | P1090348 P1090296 T9204722A | S-Q3097-01 Black S-Q3097-02 Red 3021-03 |
| | | TRIMMER CAPACITORS | | | |
| TC2001, 2006 | K91000085 | CTZ51C122 10pF | | | |
| TC2002, 2003 | K91000108 | CTZ51A 6pF | | | LITHIUM BATTERY |
| TC2004, 2005 | K91000093 | CTZ51F 30pF | BAT2001 | Q9000248 | CR-1/3N-P |
| | | INDUCTORS | | | TP TERMINALS |
| L2001, 2002, 2003, 2032 | L1190115 | S-154K 150mH | | Q5000050 Q5000037 | TR-K TP-H |
| L2004, 2005, 2007 | L1190177 | LHL06NA151K 150µH | | | |
| L2006 | L0021206B | | | R5047912C | HEATSINK |
| L2008-2010 | L1190180 | LHL06NA271K 270µH | | R0100940B | Shield Case |
| L2011 | L0020746 | | | R0100950 | Shield Cover |
| L0212 | L1190017 | FL5H102K 1mH | | R0102280 | Shield Plate A |
| L2013, 2014, 2025 | L1190163 | LHL06NA100K 10µH | | R0103060 | Shield Plate B |
| L2015, 2027 | L1190151 | LHL06NA1ROM 1µH | | R0103190A | Plate Spring |
| L2016 | L1190134 | S4-180K 18µH | | | |
| L2017, 1028 | L2290147 | S4-270K 27µH | | | |
| L2019-2022 | L1190155 | LHL06NA2R2M 2.2µH | | | |
| L2022, 2023 | L1190161 | LHL06NA6R8K 6.8µH | | | |
| L2026 | L1190159 | LHL06NA4R7K 4.7µH | | | |
| L2028, 2029 | L0021409 | | | | |
| L2030, 2031 | L0021410 | | | | |
| L2033 | L1190336 | LAL04NA271K 270µH | | | |
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| | | TRANSISTORS | | C4005 | K40179011 | Electrolytic 50WV 3.3 μ F (RE-50V3R3M) |
| Q4003-4009 | G3111627G | 2SA1162GRTE85R | | | | |
| Q4001 | G3304960Y | 2SC496Y | | C4002 | K40179014 | " " " 10 μ F (RE-50V100M) |
| Q4011 | G3327127G | 2SC2712GRTE85R | | C4004 | K40129004 | " " " 16WV 10 μ F (RE-16V100M) |
| | | | | C4007 | K40129007 | " " " 100 μ F (RE-16V101M) |
| | | DIODES | | | | |
| D4001, 4009, 4012-4014, 4016-4020 | G2070001 | Si | 1S181TE85R | | | |
| D4003 | G2090132 | " | 1SS55 | | | INDUCTORS |
| D4004 | G2090188 | Zener | HZ5C1 | L4001, 4002 | L1190123 | S6-392K 3.9 μ H |
| D4005 | G2090265 | " | RD30EB2 | | | |
| D4007 | G2090266 | " | HZ4B3 | | | |
| D4020 | G2090202 | LED | LN410YP | | | |
| D4002, 4006, 4008, 4010, 4011 | G2015550 | Si | 1S1555 | T4001 | L3030106 | DC-DC TRANSFORMER MPS-162 |
| D4021 | G2090375 | LED | GL9PR4 (Red) | | | |
| D4022 | G2090374 | " | GL9PG4 (Green) | | | |
| D4023 | G2015540 | Si | 1S1554 | | | |
| | | | | | | SWITCHES |
| | | | | S4001, 4002 | N4090081 | SPH121C16 (Lock) |
| | | | | S4003 | N6090008 | SSS012148 |
| | | DISPLAY | | S4004-4015 | N5090010 | KEG10904 |
| DS4001 | G6090033 | FIP9E7 | | | | |
| | | | | | | CONNECTORS |
| | | CERAMIC RESONATOR | | J4001 | P0090191 | B2B-XHA |
| CO4001 | H7900150 | CSB500E | | J4002 | P0090194 | B5B-XHA |
| | | | | J4003, 4004 | P0090196 | B7B-XH9 |
| | | | | P4001 (with wire) | T9205451A | XHP-12 |
| | | | | P4002 " | TP204727A | XHP-4 |
| | | RESISTORS | | | | |
| R4003 | J02245101 | Carbon Film 1/4W SJ 100 Ω | | | | |
| R4008 | J01245561 | " " " | TJ 560 Ω | | Q5000037 | TERMINAL TP-H |
| R4004 | J02245152 | " " " | SJ 1.5k Ω | | | |
| R4007 | J01245563 | " " " | TJ 56k Ω | | | |
| R4001 | J24205100 | Chip Resistor 1/10W 10 Ω | | | | |
| R4031 | J24205271 | " " " | 270 Ω | | | DIAL UNIT |
| R4012 | J24205471 | " " " | 470 Ω | Symbol No. | Part No. | Name & Description |
| R4025-4030 | J24205821 | " " " | 820 Ω | | F2559000A | Printed Circuit Board |
| R4006 | J24205332 | " " " | 3.3k Ω | | C025590A | PCB with Components |
| R4005, 4011, 4013-4024 | J24205103 | " " " | 10k Ω | | | |
| R4009 | J24205104 | " " " | 100k Ω | | | ICS |
| R4010 | J24205274 | " " " | 270k Ω | Q5001 | G1090068 | MC14011BCP |
| | | | | Q5002 | G1090224 | MC14584BCP |
| | | | | Q5003 | G1090029 | MC14071BCP |
| | | | | Q5004 | G1090548 | MC14082BCP |
| | | | | Q5005 | G1090067 | MC14013BCP |
| | | CAPACITORS | | | | |
| C4008 | K22170127 | Chip Capacitor 50WV SL 47pF (C2012SL1H470JFA) | | | | |
| C4009 | K22170139 | " " " | " " 150pF (C2012SL1H151JFA) | | | DIODES |
| C4006 | K22170817 | " " " | " " B 0.01 μ F (C2012B1H103MFA) | D5001-5003 | G2015550 | Si 1S1555 (1S1554, 1SS53) |
| C4011 | K50177152 | Mylar 50WV 0.0015 μ F (50F2U152M) | | | | |
| C4001 | K50177222 | " " " | " " 0.0022 μ F (50F2U222M) | | | BUZZER |
| C4003 | K50177153 | " " " | " " 0.015 μ F (50F2U153M) | BZ5001 | M4290001 | EFB-RE25D02 |
| C4010 | K40179013 | Electrolytic 50WV 1 μ F (RE-50V010M) | | | | |

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| RESISTORS | | | DIODES | | |
|----------------------------------|-----------|--|----------------------------|-----------|---|
| R5007 | J01215103 | Carbon Film 1/8W TJ 10kΩ | D6002-6005 | G2090002 | Si 10D10 |
| R5003-5006 | J00215563 | " " " VJ 56kΩ | D6006-6012 | G2015550 | " 1S1555 |
| R5010 | J00215823 | " " " " 82kΩ | D6001 | G2090217 | Zener HZ3C1 |
| R5001, 5002, 5008, 5009, 5011 | J00215104 | " " " " 100kΩ | | | |
| R5012 | J00215225 | " " " " 2.2MΩ | | | |
| | | | | | THERMISTOR |
| | | | TH6001 | G9090011 | SDT1000 |
| | | | | | |
| | | CAPACITORS | | | |
| C5001-5005, 5007 | K19149001 | Semiconductors Ceramic 25WV 0.001μF (UAT04X102K-L05AE) | R6017, 6021, 6022 | J21339003 | RESISTORS Metallic Film 2W 39Ω (ERG-2SJ390) |
| C5006, 5008, 5009 | K19149021 | " " " " 0.047μF (UAT08X473K-L45AE) | R6023 | J21339004 | " " " 68Ω (ERG-2SJ680) |
| | | | R6009, 6011, 6016, 6018 | J02275159 | Carbon Film 1/2W SJ 1.5Ω |
| | | | R6006 | J02245479 | " " 1/4W " 4.7Ω |
| | | CONNECTORS | R6007, 6019, 6020 | J01275180 | " " 1/2W TJ 18Ω |
| J5001 | P0090205 | S4B-XHA | R6012, 6013 | J01275240 | " " " " 24Ω |
| P5001 (with wire) | P9205452A | XHP-06 | R6002 | J02245330 | " " 1/4W SJ 33Ω |
| | | | R6010 | J01275390 | " " 1/2W TJ 39Ω |
| | | | R6035 | J02245101 | " " 1/4W SJ 100Ω |
| | | | R6001 | J02245121 | " " " " 120Ω |
| | | | R6014, 6015 | J01275121 | " " 1/2W TJ 120Ω |
| | | | R6024 | J02245221 | " " 1/4W SJ 220Ω |
| | | | R6003, 6004 | J02245331 | " " " " 330Ω |
| | | | R6005, 6034 | J02245471 | " " " " 470Ω |
| | | LED UNIT | R6041 | J01215561 | " " 1/8W TJ 560Ω |
| Symbol No. | Part No. | Name & Description | R6008 | J01275102 | " " 1/2W " 1kΩ |
| | F2857000A | Printed Circuit Board | R6037 | J02245102 | " " 1/4W SJ 1kΩ |
| | C028570A | PCB with Components | R6026 | J02245392 | " " " " 3.9kΩ |
| | | | R6029, 6030 | J02245472 | " " " " 4.7kΩ |
| | | LEDs | R6027, 6032, 6036 | J02245103 | " " " " 10kΩ |
| D9501-9505 | G2090288 | TLG210 (Red) | R6038 | J02245223 | " " " " 22kΩ |
| D9506 | G2090370 | TLY210 (Yellow) | R6033 | J02245154 | " " " " 150kΩ |
| | | | R6039 | J02245105 | " " " " 1MΩ |
| | | | R6028 | J01245105 | " " " TJ 1MΩ |
| | | | R6031 | J02245155 | " " " SJ 1.5MΩ |
| | | 100W PA UNIT | | | |
| Symbol No. | Part No. | Name & Description | | | |
| | F2554000B | Printed Circuit Board | | | |
| | C025540A | PCB with Components | | | |
| | | | | | POTENTIOMETER |
| | | | VR6001 | J51723102 | H1051A004-1KB 1kΩB |
| | | | | | |
| | | ICS | | | |
| Q6006 | G1090294 | μPC7808H | | | |
| Q6011 | G1090549 | TL7705 | | | |
| Q6013 | G1090068 | MC14011BCP | C6020 | K30276820 | CAPACITORS Dipped Mica 500WV 82pF (LCQ12820K5) |
| | | | C6009 | K30276121 | " " " 120pF (LCQ17121K5) |
| | | | C6045, 6046 | K30276471 | " " " 470pF (LCQ17471K5) |
| Q6012 | G3109520L | 2SA952L | C6019 | K30276621 | " " " 620pF (LCQ18621K5) |
| Q6008 | G3110120Y | 2SA1012Y | C6011 | K30279092 | " " " 750pF (DM19D751J5) |
| Q6009 | G3304580D | 2SC458D | C6018 | K30279051 | " " " 1000pF (DM19D102K5) |
| Q6001 | G3319710 | 2SC1971 | C6012, 6013 | K30279097 | " " " 5000pF (DM19D502J5) |
| Q6002, 6003 | G3323950 | 2SC2395 | C6006, 6007 | K10179038 | Ceramic Disc 50WV B 0.0047μF (DD108B472K50V) |
| Q6004, 6005 | G3328790 | 2SC2879 | | | |
| Q6007 | G34088000 | 2SD880-O | | | |
| Q6010 | G3408920R | 2SD892R | | | |



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

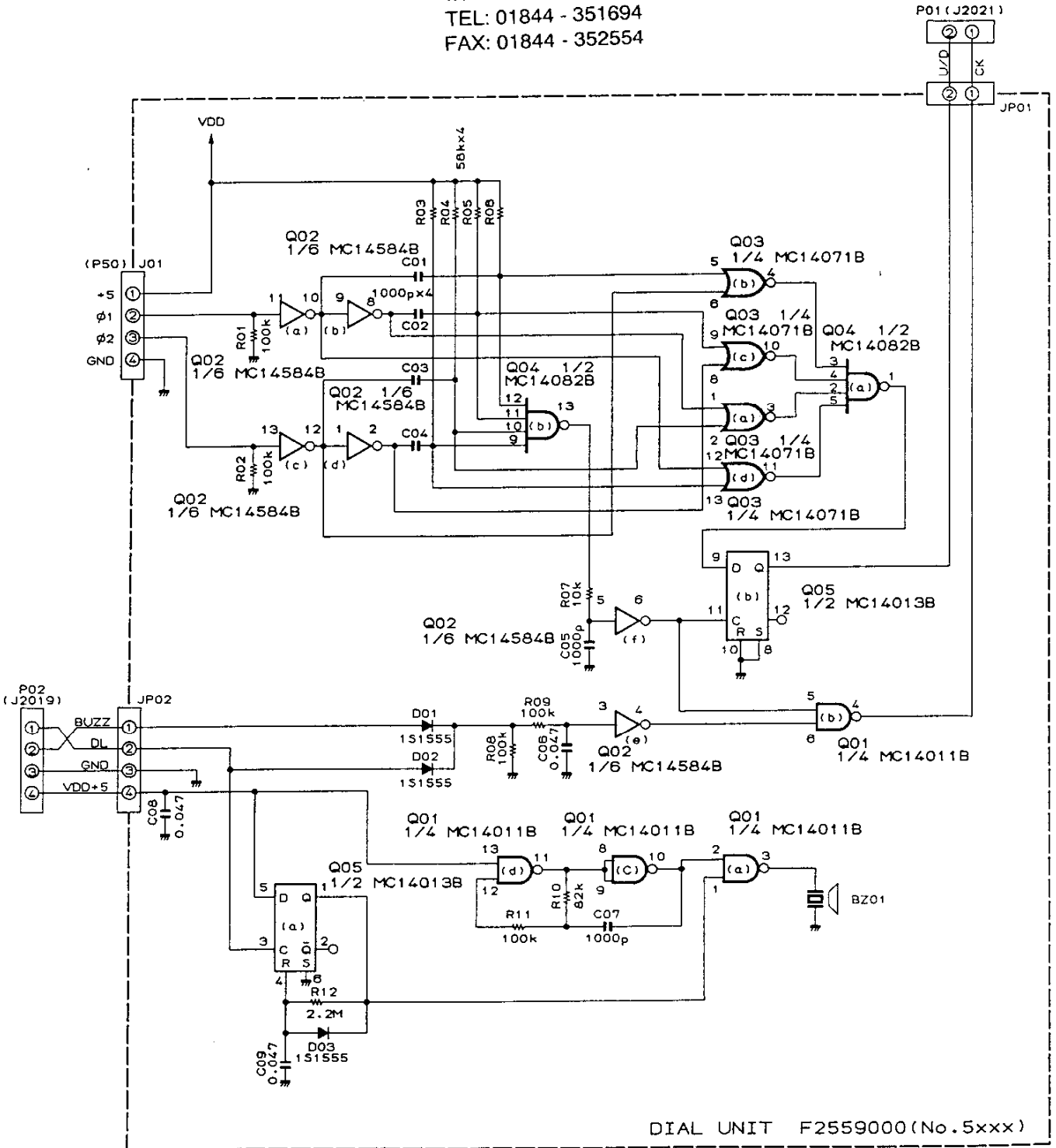
| RESISTOR | | | NOTCH UNIT | | |
|------------------------------|-----------|--------------------------|-------------|-----------|---|
| Symbol No. | Part No. | Name & Description | Symbol No. | Part No. | Name & Description |
| R8101 | J00215101 | Carbon Film 1/8W VJ 100Ω | | F2720102A | PCB |
| | | | | C027200A | PCB with Components |
| POTENTIOMETER | | | | | |
| VR8101 | J64800002 | S1021G901-250KBX2 | Q9001 | G3326207B | TRANSISTOR 2SC2620QBTR |
| SWITCHES | | | | | CERAMIC RESONATOR |
| S8101 | N6090041 | SSS312089 | CO9001 | H7900340 | R455RH |
| S8102 | N6090047 | SSS322 | | | |
| CONNECTORS | | | R9005 | J01215331 | Carbon Film 1/8W TJ 330Ω |
| | | | R9003 | J24205101 | Chip Resistor 1/10W 100Ω |
| P8101 (with wire) | T9204730B | XHP-2 | R9001 | J24205104 | " " " 100kΩ |
| P8102 " | T9204731 | XHP-6 | R9004 | J24205000 | Chip Jumper |
| | | | | | |
| | | | VR9001 | J50770222 | POTENTIOMETER 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 |
| SWITCH ASSY | | | | | CONNECTOR |
| S8201 | N4090084 | SUJ71A | J9001 | P0090097 | 5049-05A |
| CONNECTORS | | | | | |
| J8201, 8202 | P0090191 | B2B-XHA | ACCESSORIES | | |
| 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 |
| SWITCH UNIT B | | | | | FUSE |
| Symbol No. | Part No. | Name & Description | | Q0000009 | 20A FT-757GX II |
| | F2558000A | Printed Circuit Board | | Q0000012 | 6A FT-757SX II |
| | C025580A | PCB with Component | | | |
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| FAX: 01844 - 352554 | | | | P0090018 | STP-58 |
| CONNECTORS | | | | | |
| J8301 | P0090191 | B2B-XHA | | | |
| P8301 (with wire) | T9204735 | 5395-03 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

FP-757HD PARTS LIST

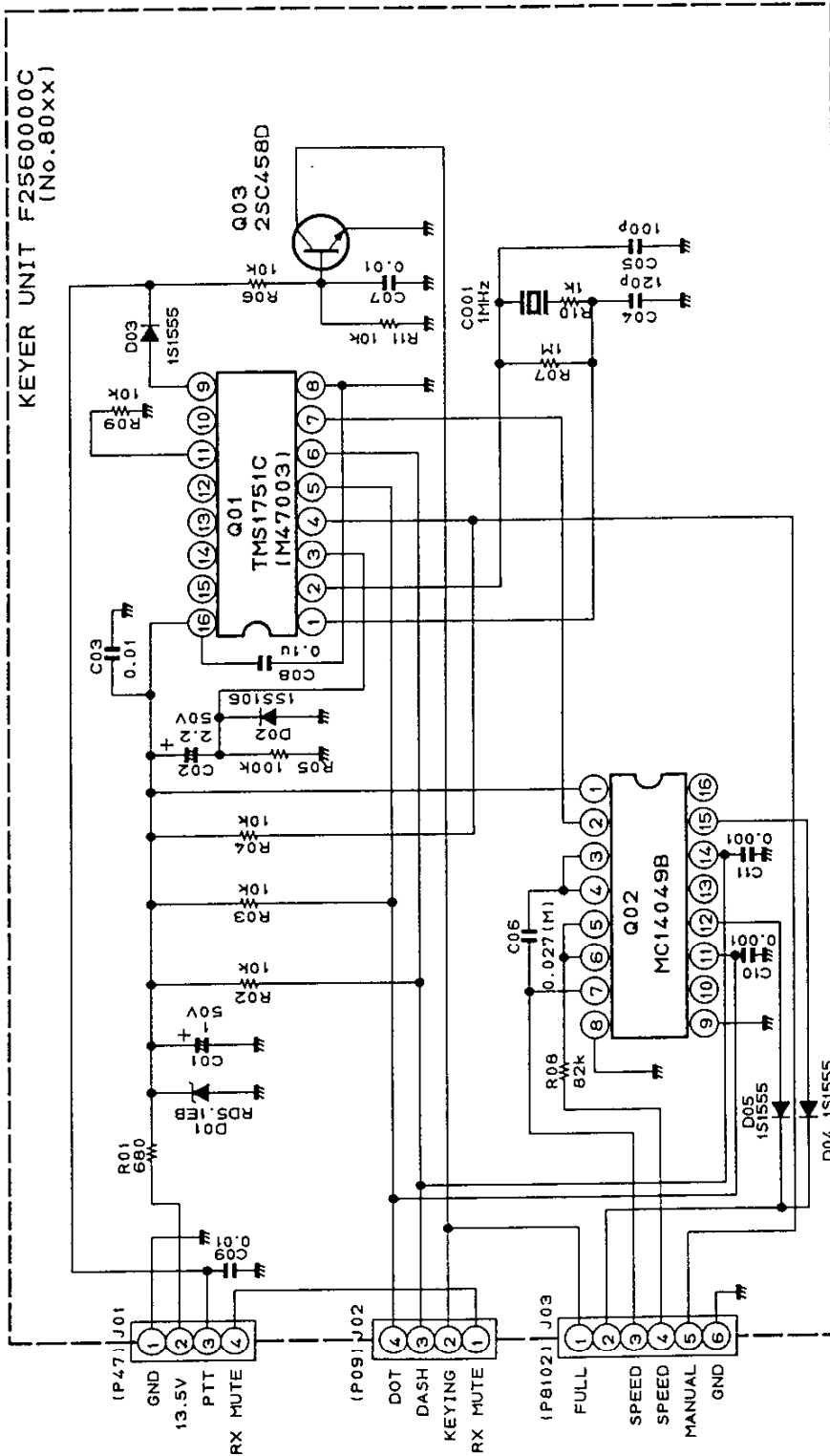
| MAIN CHASSIS | | | | | JACK |
|--------------|-----------|---|--------------|-----------|--|
| Symbol No. | Part No. | Description | | P0090093 | XG-9242 (FAN) |
| | | TRANSISTORS | | | |
| Q1-3 | G3407170 | 2SD7170 or Y | | | PLUG |
| | | | | P1090140 | PJ-2 (FAN) |
| | | DIODE | | | THERMAL SWITCH |
| D1 | G2090121 | S25VB10 | TS1 | N7090027 | OHD-50M |
| | | RESISTORS | | | RECEPTACLE |
| R1 | J30379002 | Cement 5 W 10 Ω (SQ5L 10) | | P0090094 | PA125 |
| R2-4 | J30379001 | " " 0.05 Ω (SQ5L R05) | | | FUSES |
| | | | | Q0000012 | 6A 100V-117VAC |
| | | | | Q0000004 | 3A 200V-234VAC |
| | | CAPACITORS | | | AVR UNIT |
| C1,2 | K12329001 | Ceramic disc 1.4 KV 0.01 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 | Q103 | G3109500Y | 2SA950Y |
| PT1 | L3030081A | | Q102 | G3110120Y | 2SA1012Y |
| | | SPEAKER | | | DIODES |
| SP1 | M4090048 | SA-128D1 | D101,102,105 | G2090001 | Si 10D1 |
| | | | D104 | G2015550 | Si 1S1555 |
| | | RELAY | D103 | G2090246 | Zener RD6.2EB2 |
| RL1 | M1090016 | FRL263D012/01CS-0E | | | RESISTORS |
| | | SWITCH | R106 | J00275270 | Carbon film 1/2W 27 Ω VJ |
| SW1 | N2090024 | 8H2011 | R101 | J02245560 | 1/2W 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) | | | POTENTIOMETER |
| | Q5000045 | T1 (Black) | | | |
| | | OUTPUT CABLE | VR101 | J50735472 | H1022A 311-4.7KB 4.7 kΩB |
| | T9203030D | | | | CAPACITORS |
| | | FUSES | C104 | K50177223 | Mylar 50 WV 0.022 μF (50F2U223M) |
| F1 | Q0000012 | 6A (100-117 VAC) | | | |
| F1 | Q0000004 | 3A (200-234 VAC) | C103 | K50177473 | " " 0.047 μF (50F2U473M) |
| F2 | Q0000033 | 25A (MF-60) DC | | | |
| | | FUSE HOLDERS | C101 | K40149010 | Electrolytic 25 WV 330 μF (25RE330) |
| 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) | | | |
| | Q6000014 | 1L5PS (3-0-2) | | T9013284 | 3 wire, 2 prong EU plug(YFC-09K) |
| | | FAN/MOTOR | | | SPARE FUSES |
| | M2090006 | FBS-08A12LZNA | | Q0000012 | 6A 100V-117VAC |
| | | | | Q0000004 | 3A 200V-234VAC |
| | R7080690 | FAN PACKING | | Q0000033 | 25A DC |

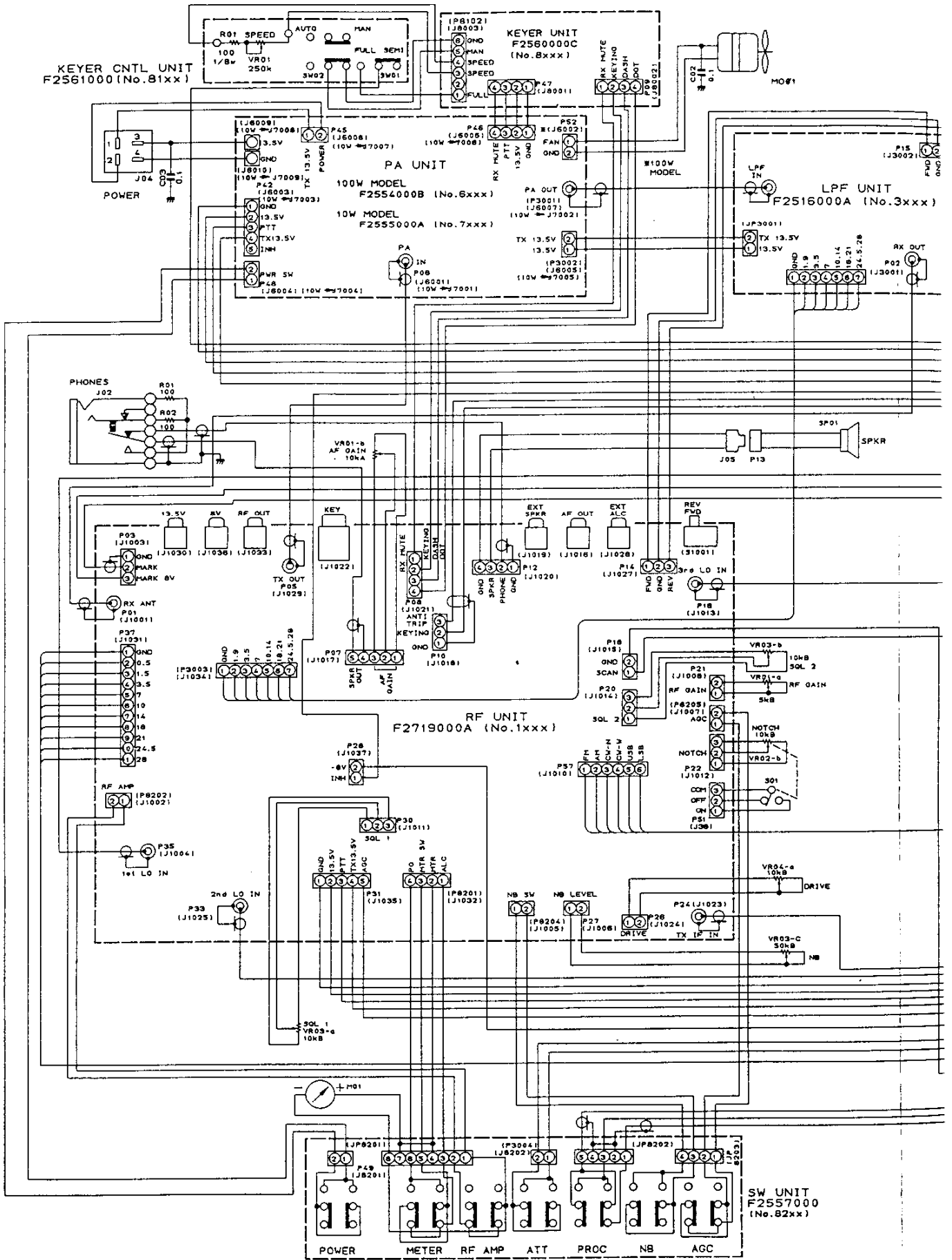
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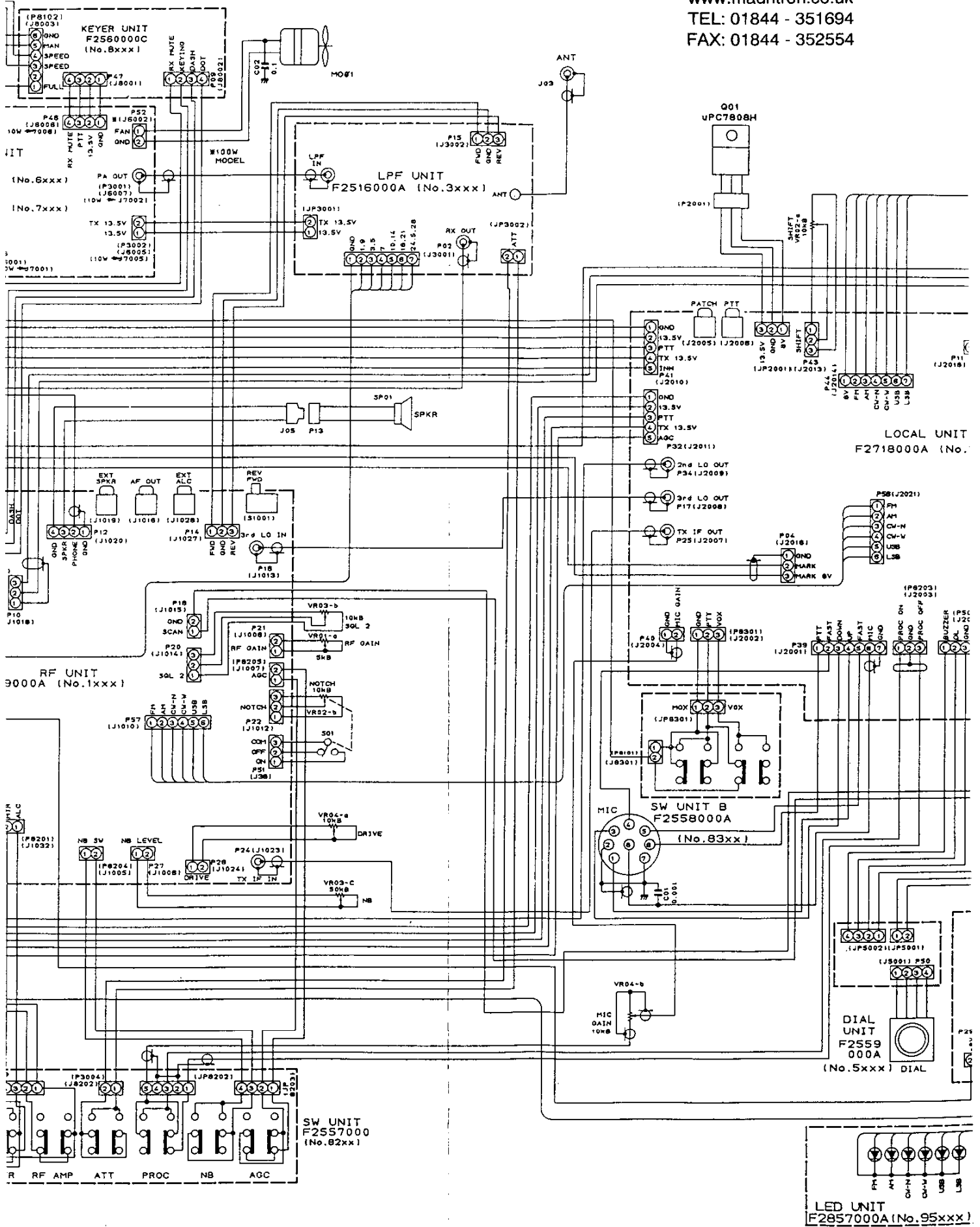
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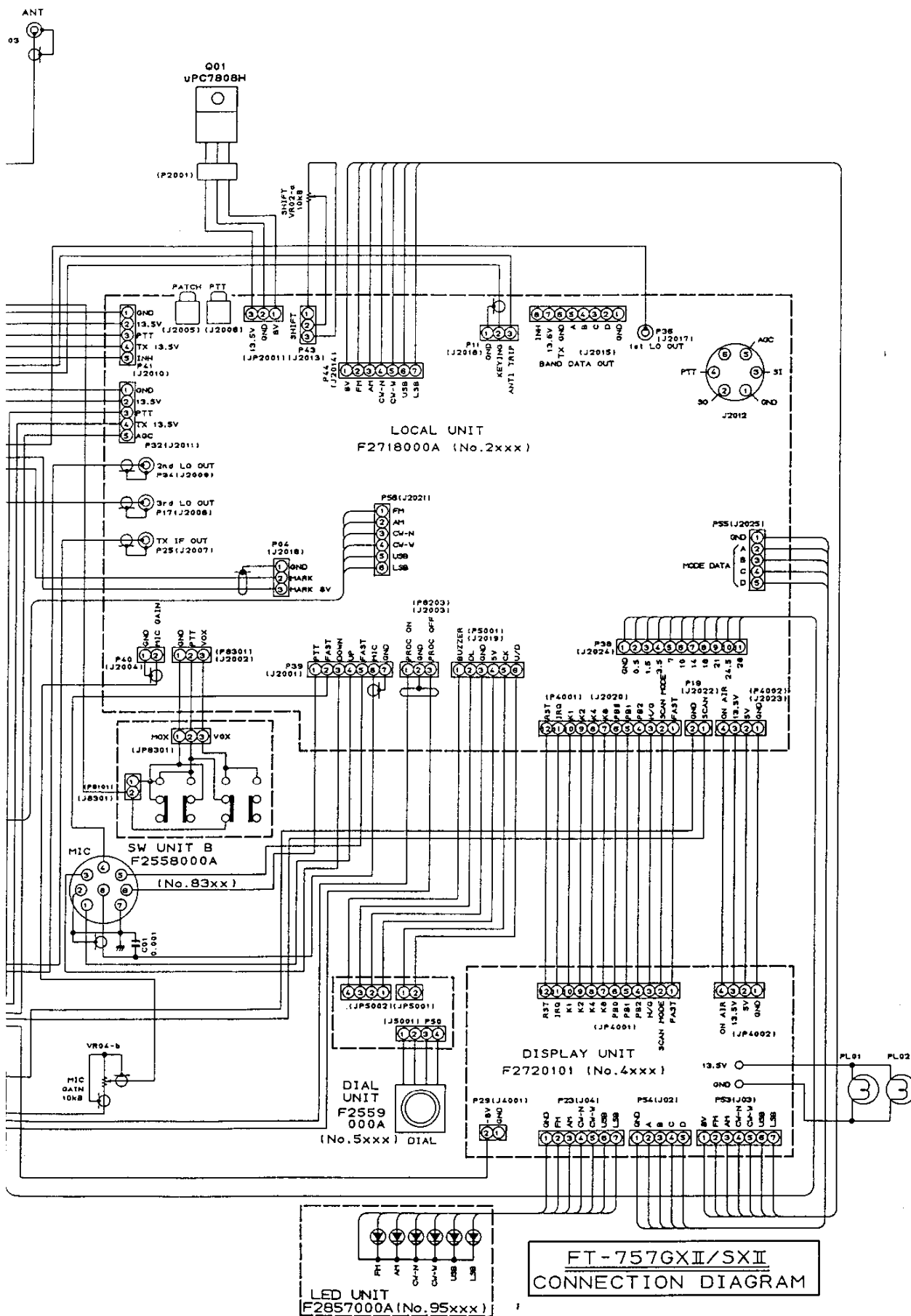


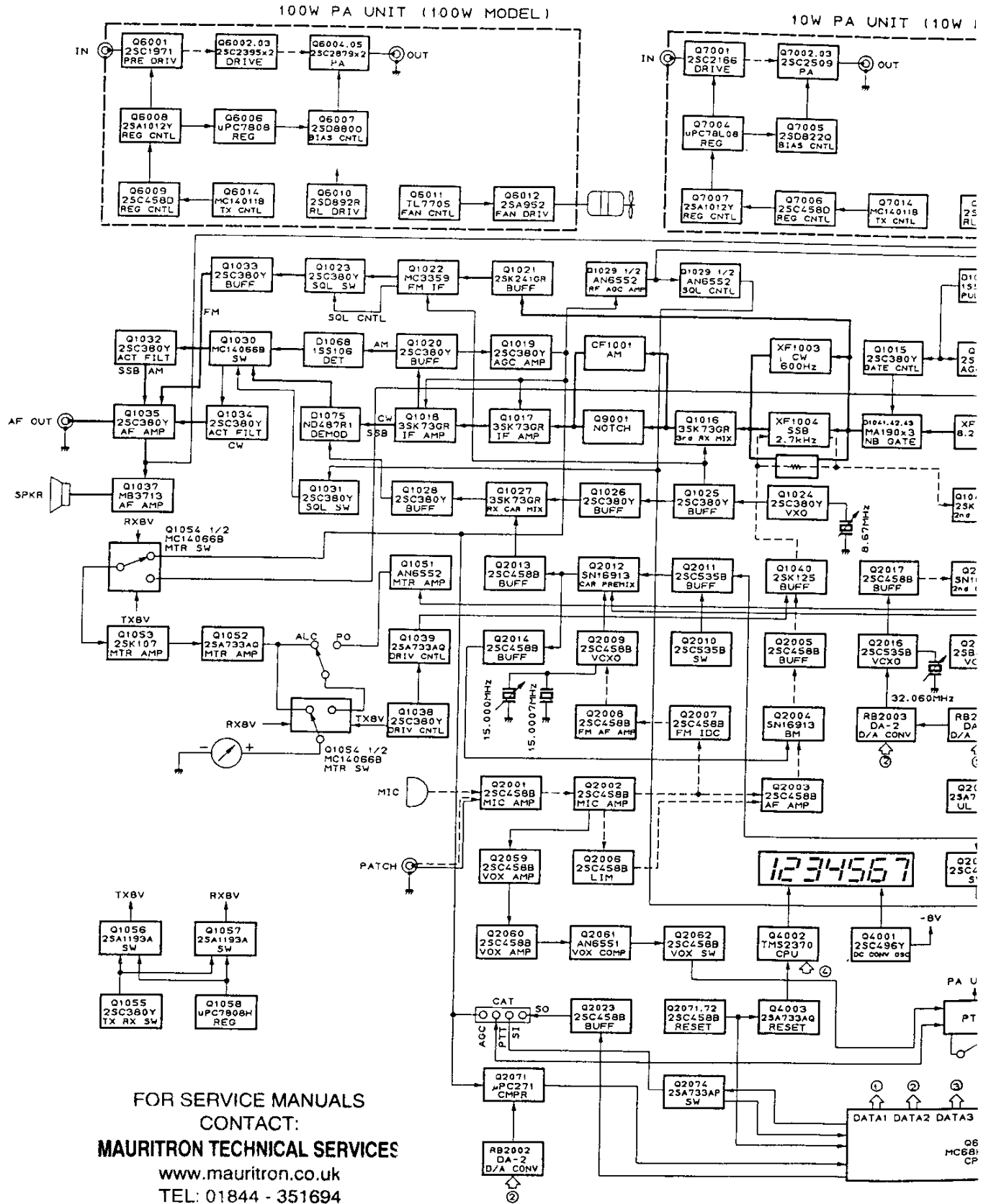


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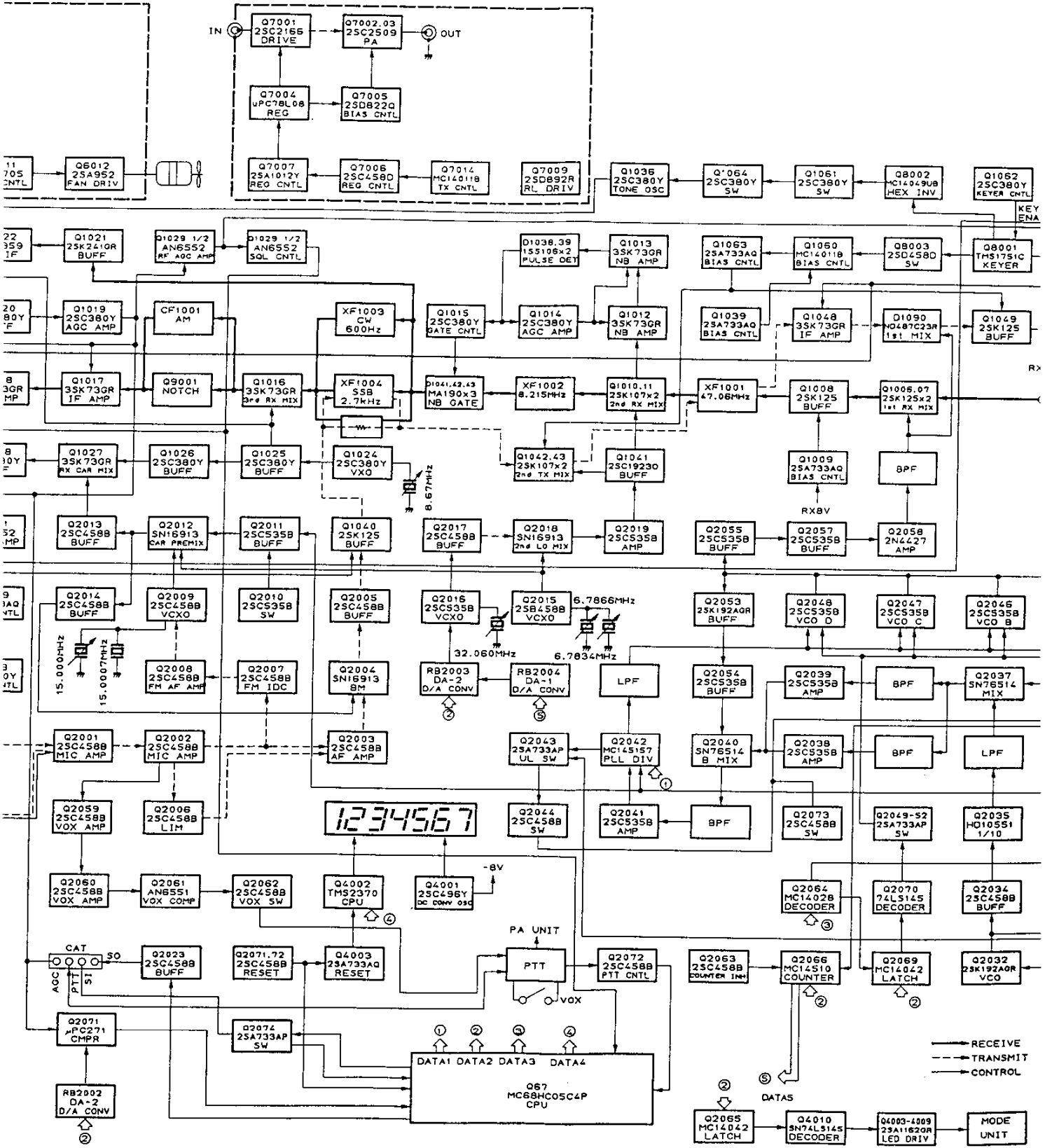




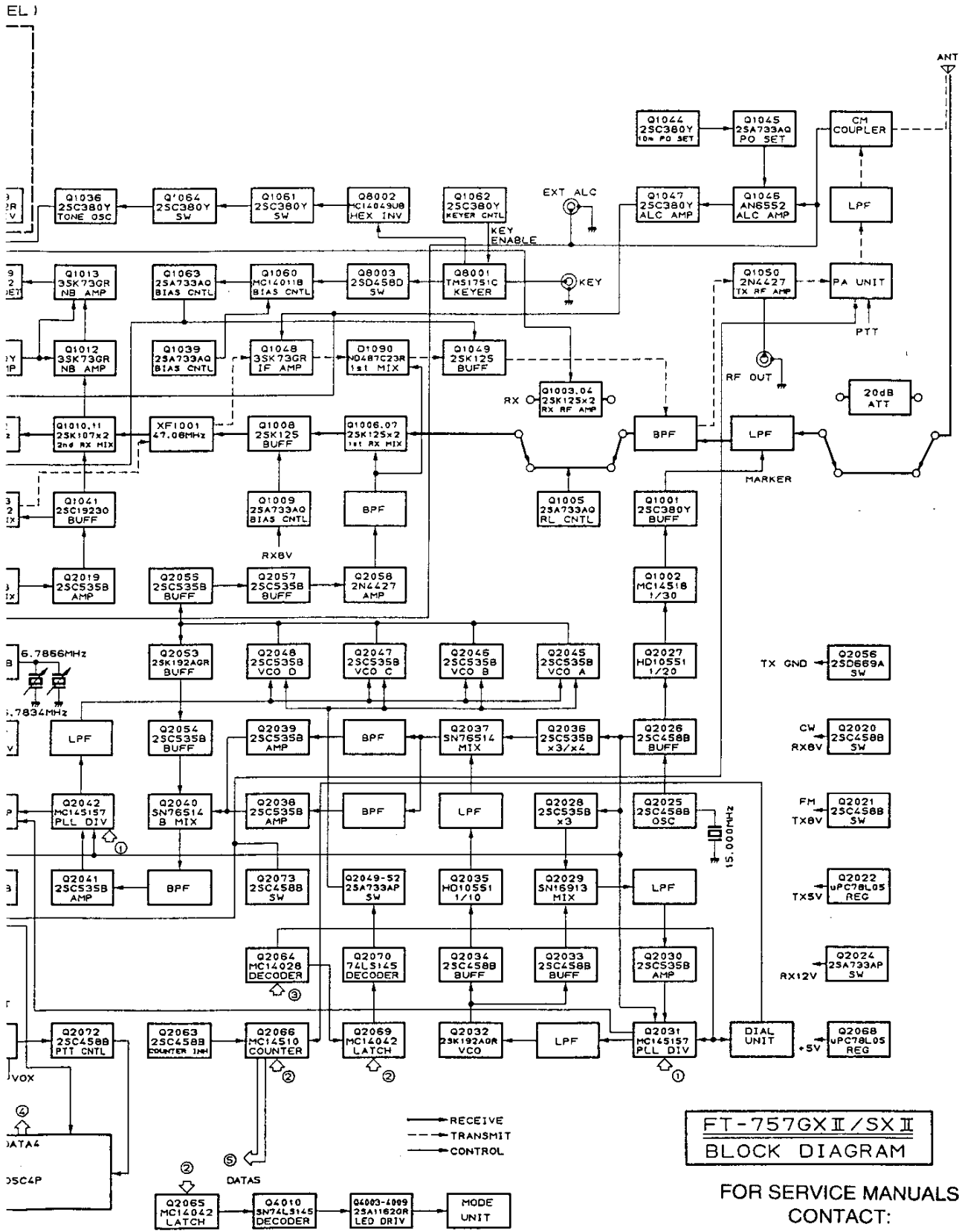
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100W MODEL)

10W PA UNIT (10W MODEL)

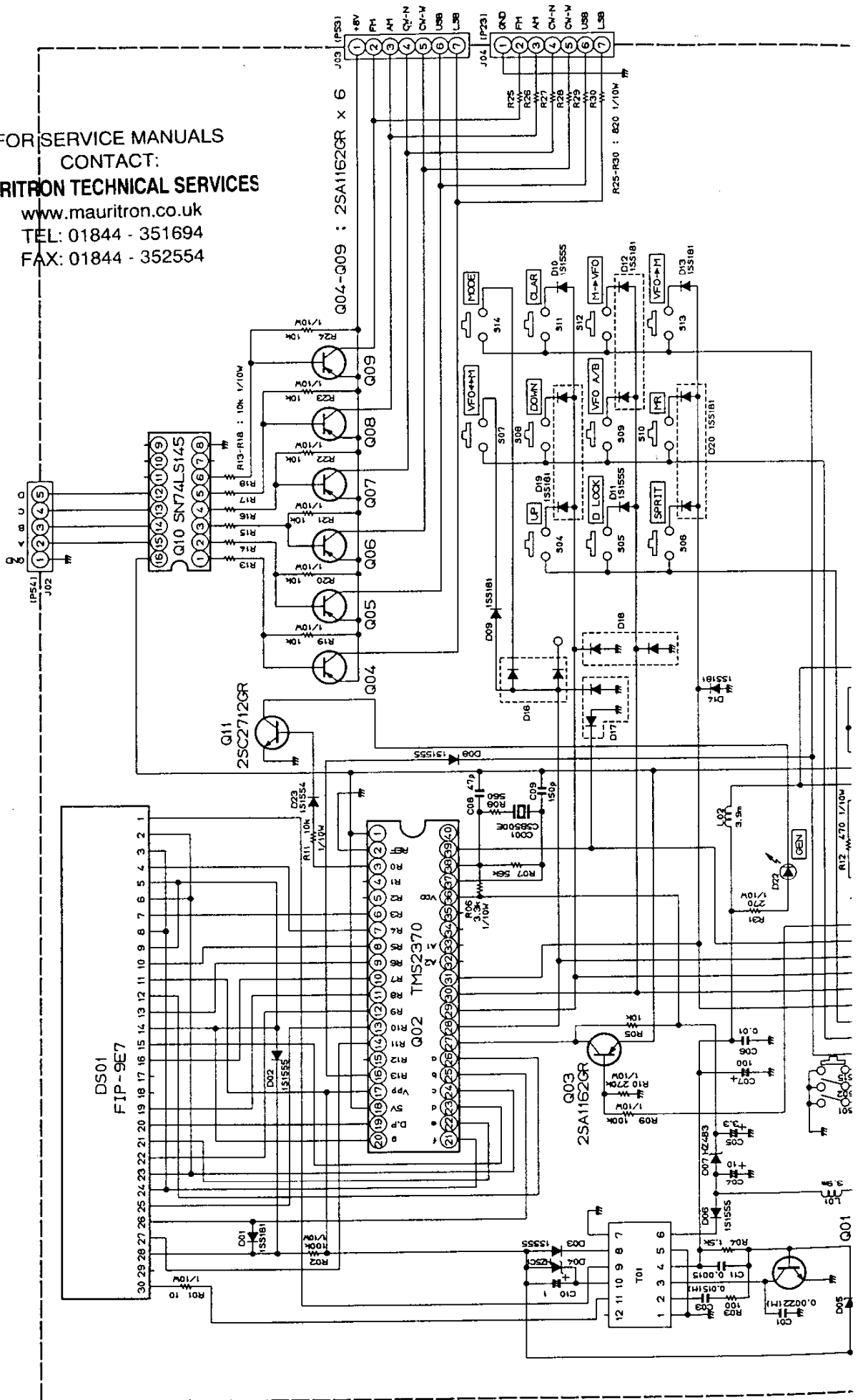


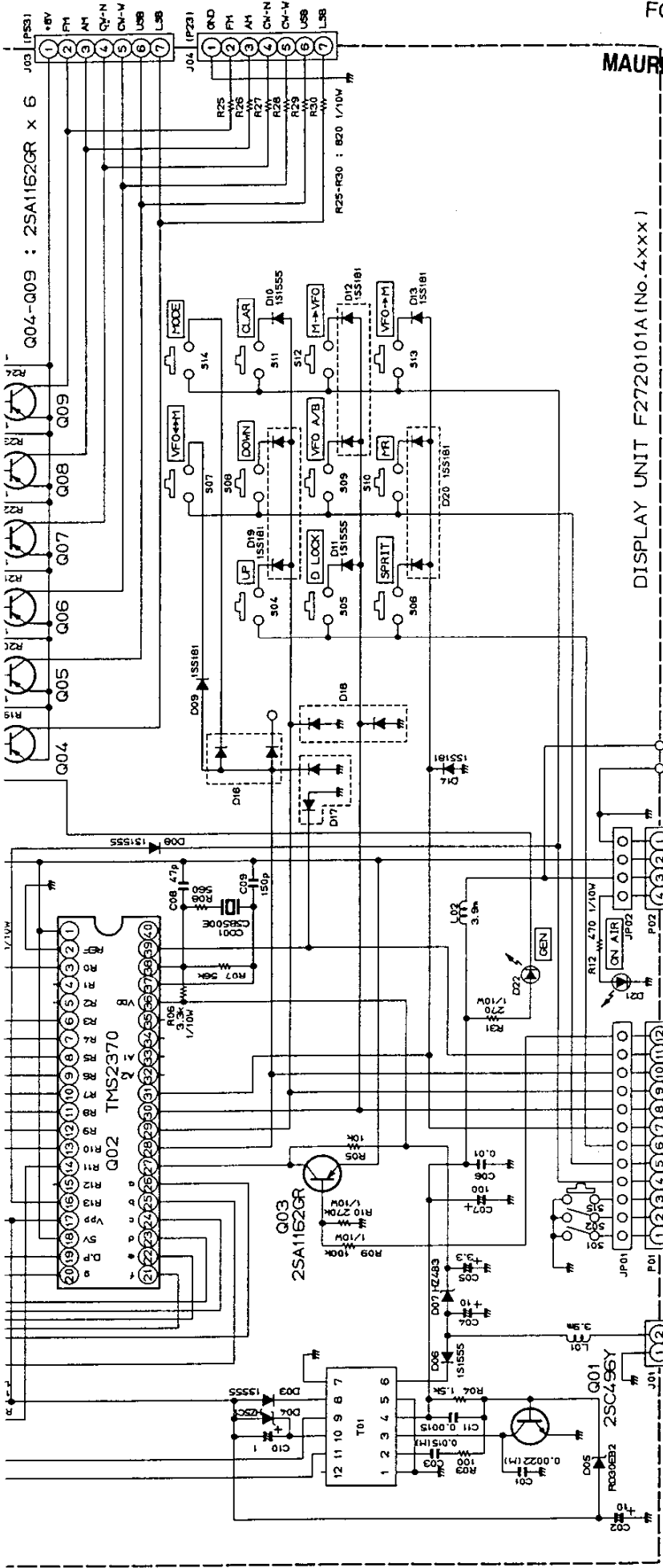
——— RECEIVE
 - - - TRANSMIT
 ····· CONTROL



FOR SERVICE MANUALS
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FAX: 01844 - 352554

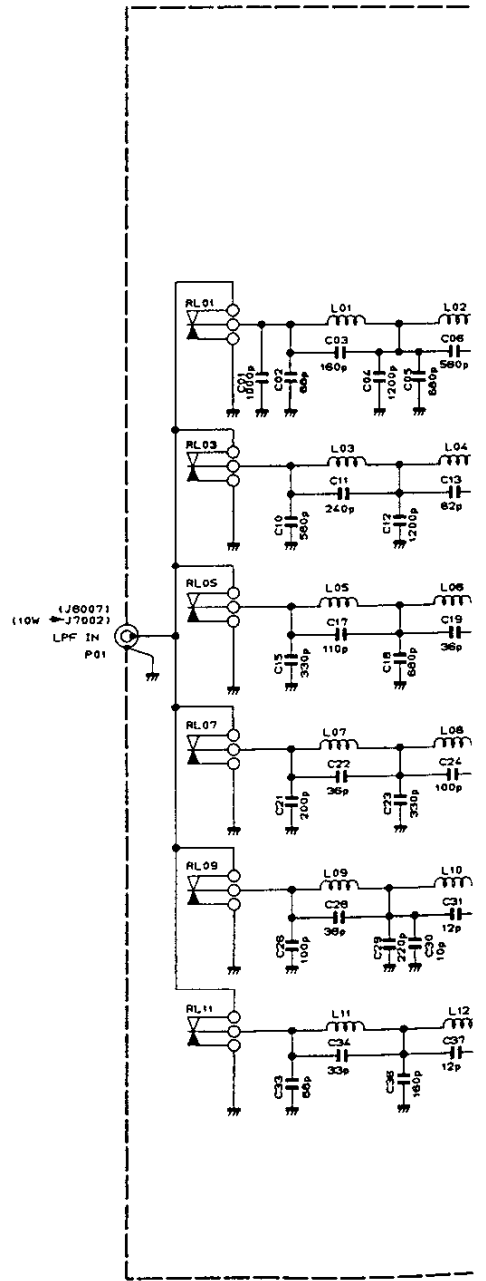
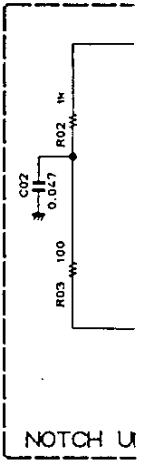




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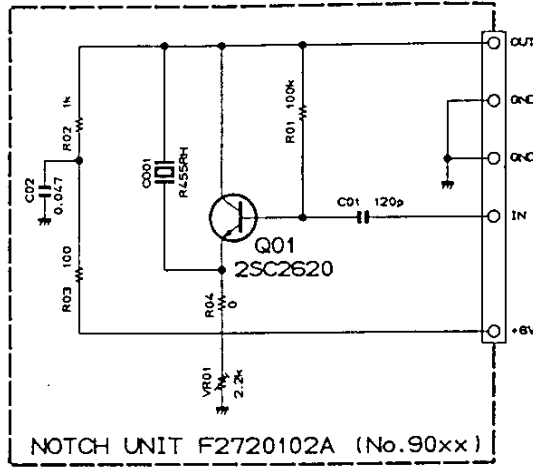
DISPLAY UNIT F2720101A (No. 4xxx)

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

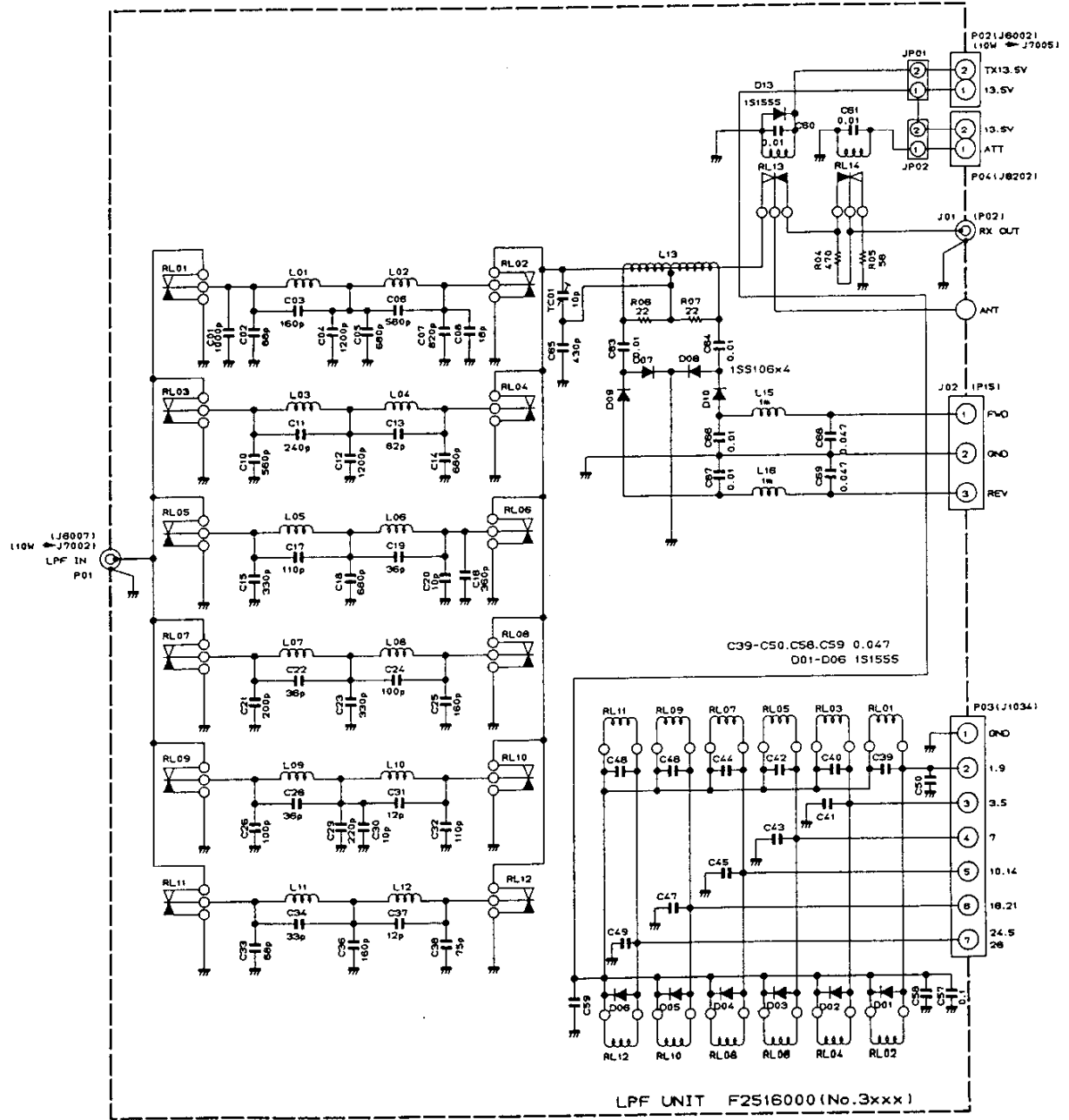


RESISTOR VALUES ARE IN Ω, 1/4W ;
 CAPACITOR VALUES ARE IN μF, 50V ;
 INDUCTOR VALUES ARE IN H ; UNLESS OTHERWISE NOTED,
 (M) CAPACITORS ARE POLYESTER FILM, 50WV.

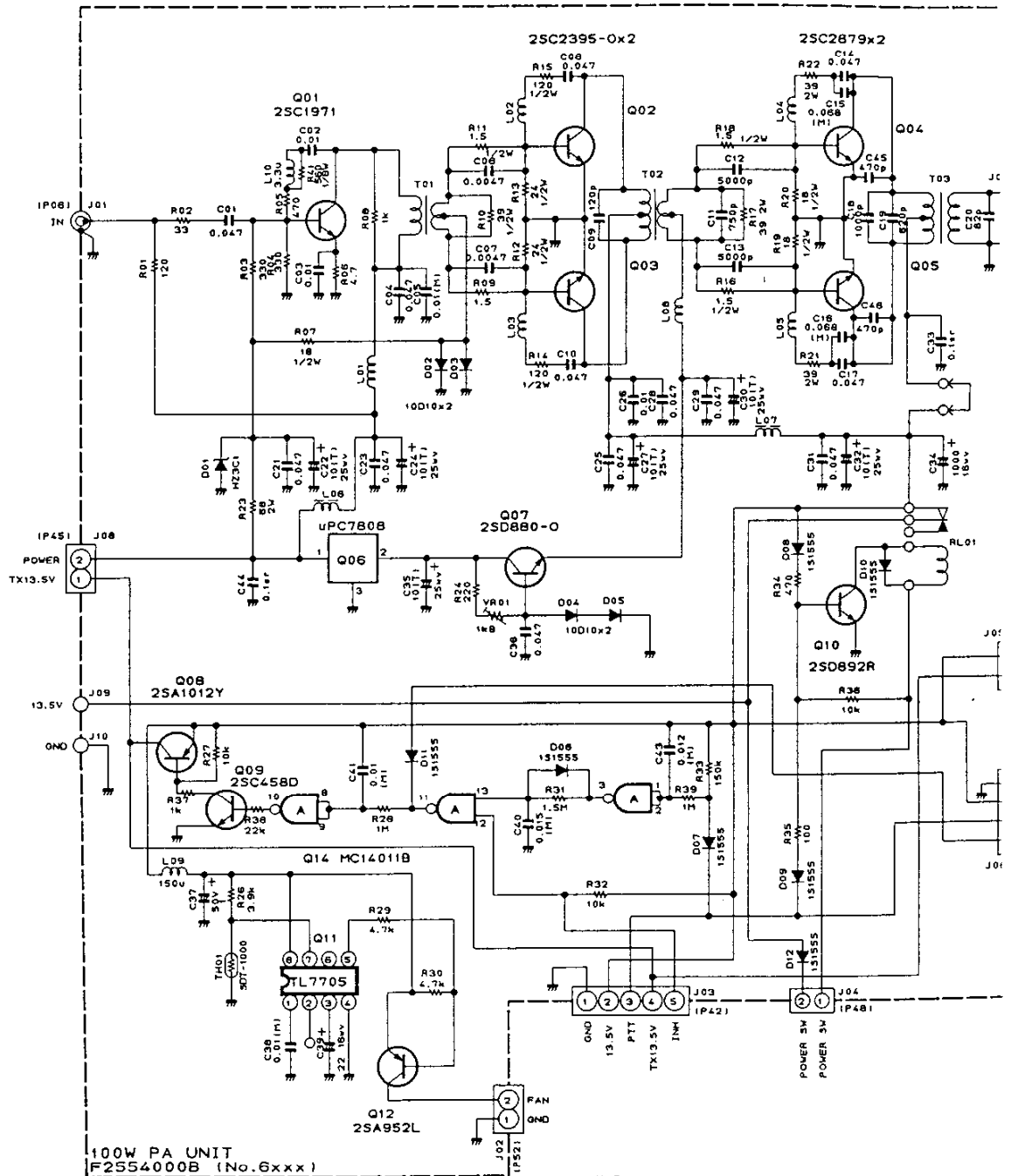
FAST
 SCAN MODE
 H/V
 PB2
 PB1
 PB0
 KA
 K2
 K1
 IR0
 RST
 AIR
 13.5V
 5V
 GND
 TR0
 TR1



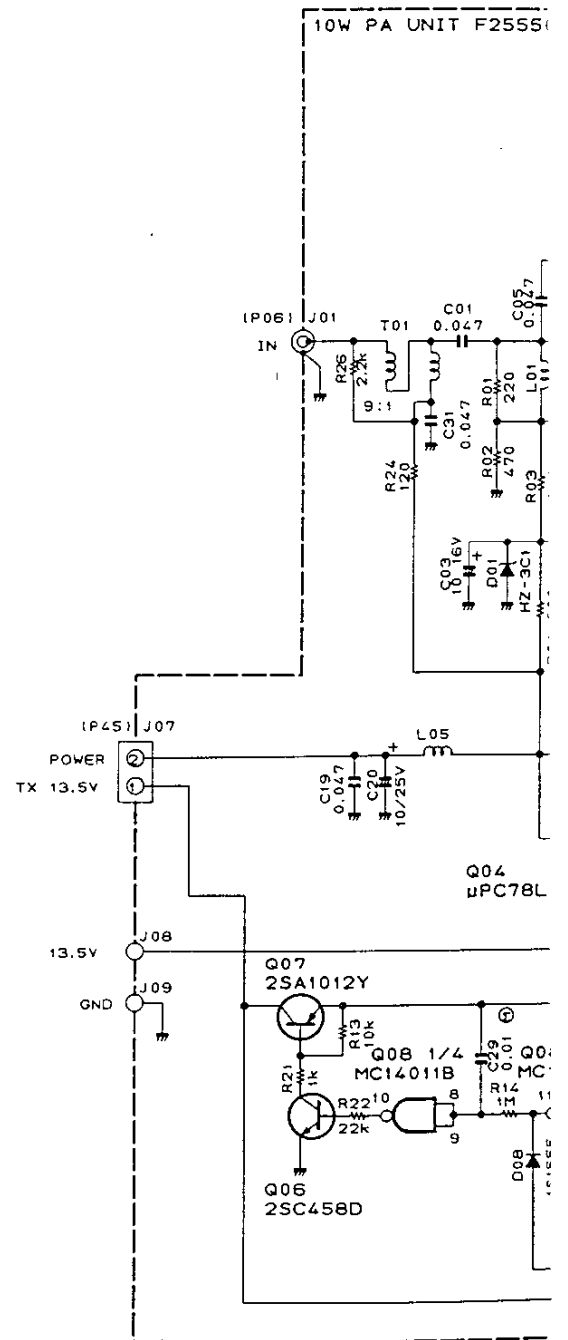
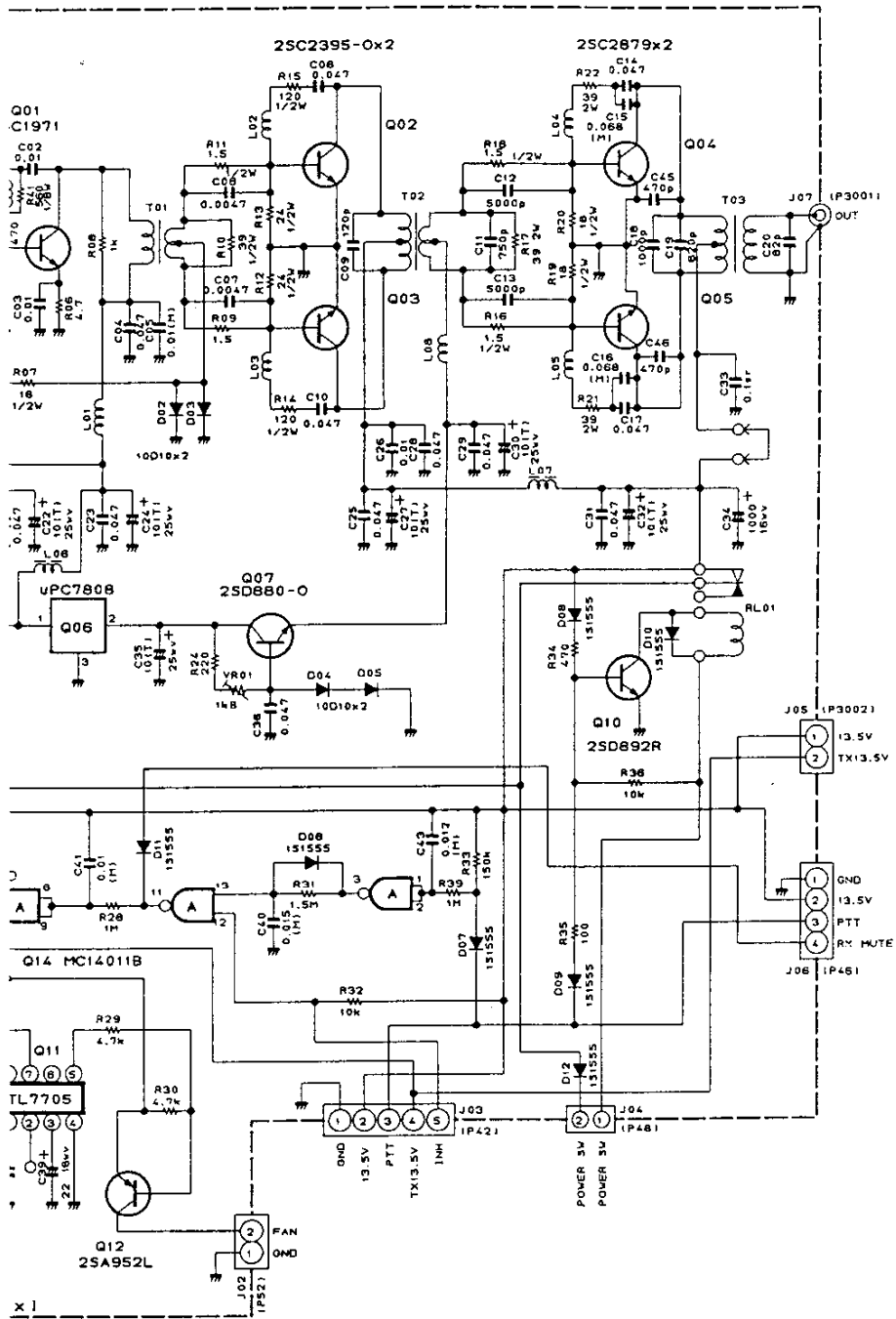
RESISTOR VALUES ARE IN Ω, 1/10W ;
 CAPACITOR VALUES ARE IN μF, 50V ;
 UNLESS OTHERWISE NOTED.



LPF UNIT F2516000 (No.3xxx)



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10W PA UNIT F2555

X 1

211

TX 13.5V

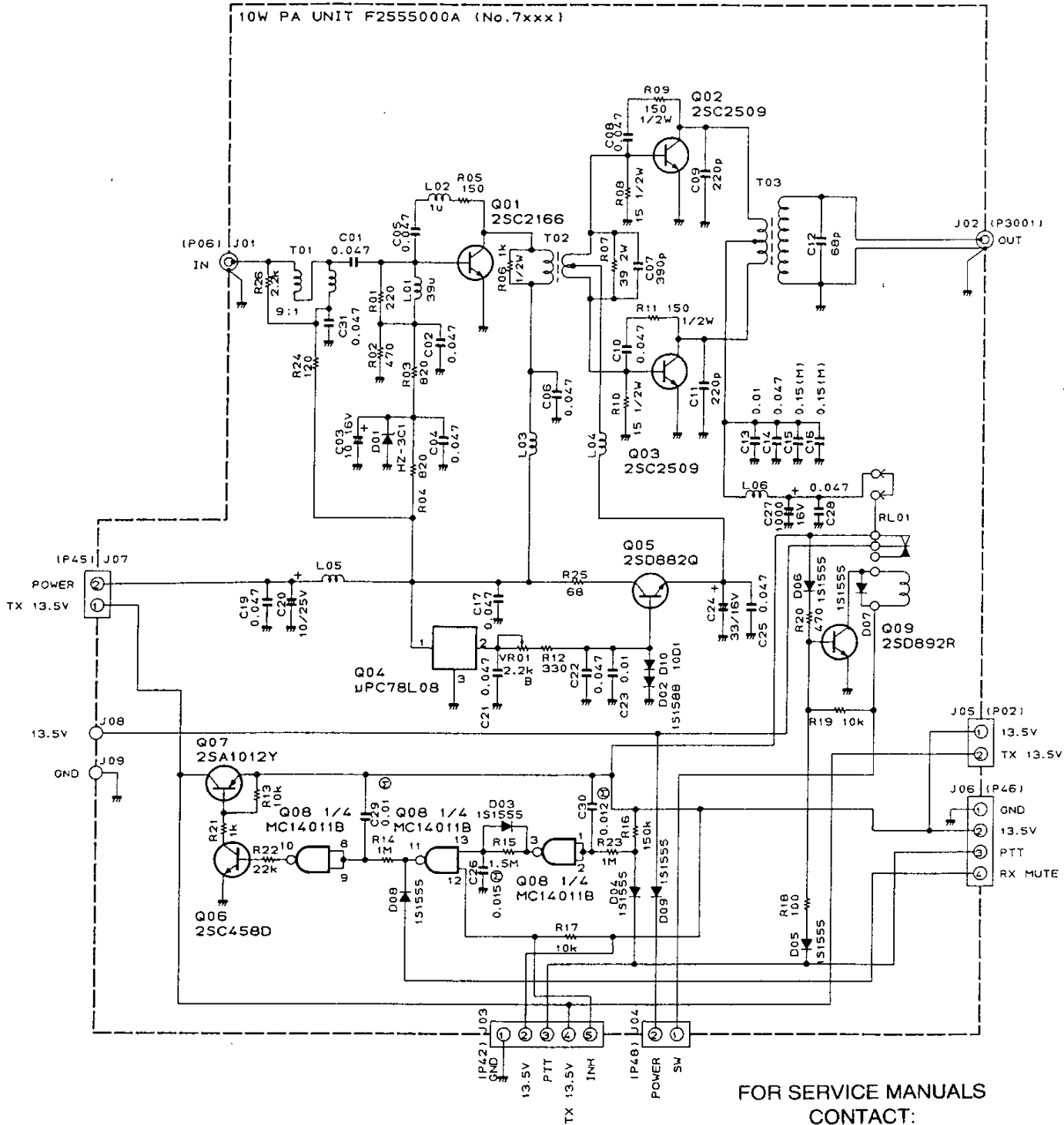
13.5V

GND

MUTE

4/4

10W PA UNIT F2555000A (No.7xxx)



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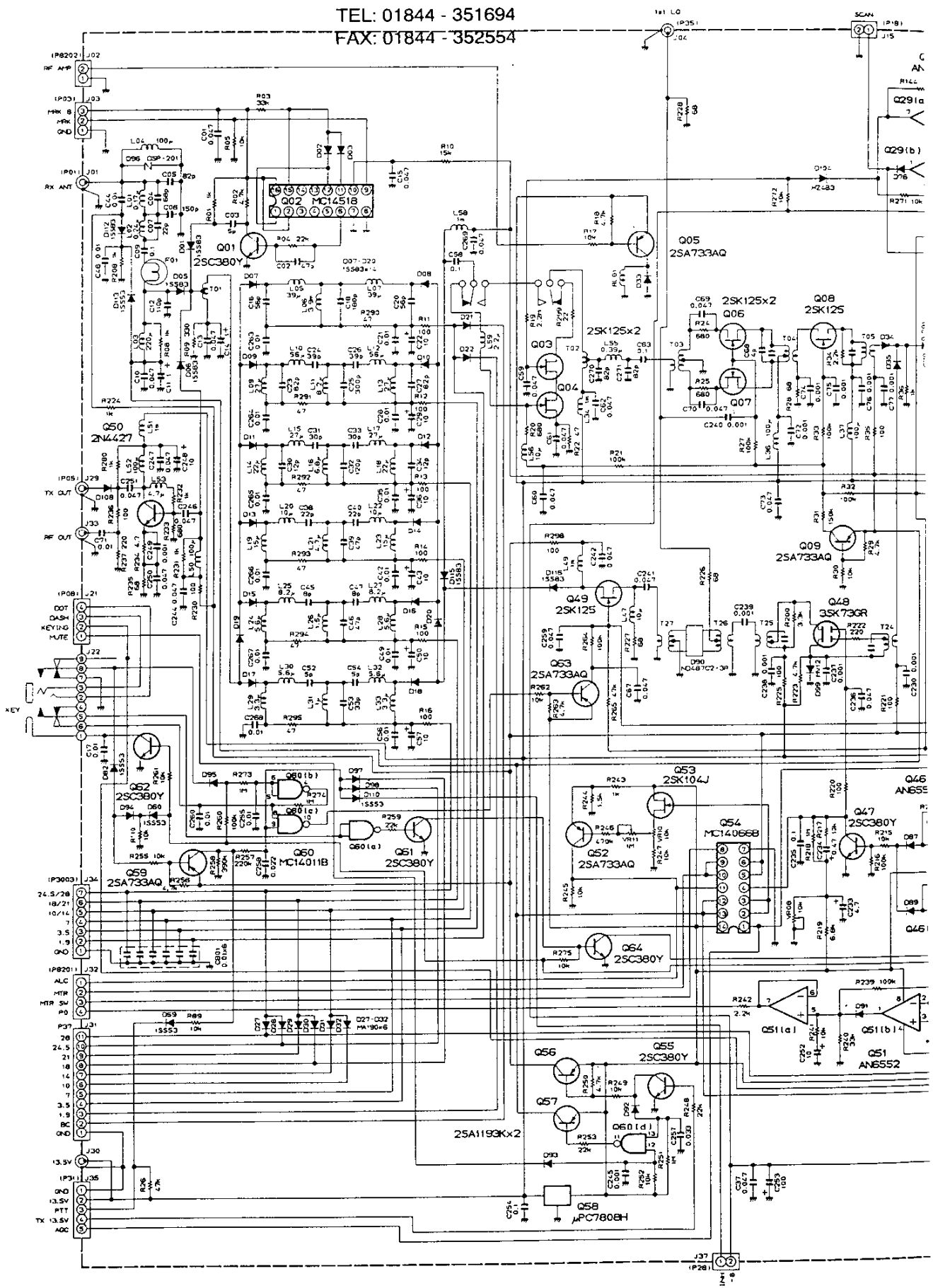
4/4

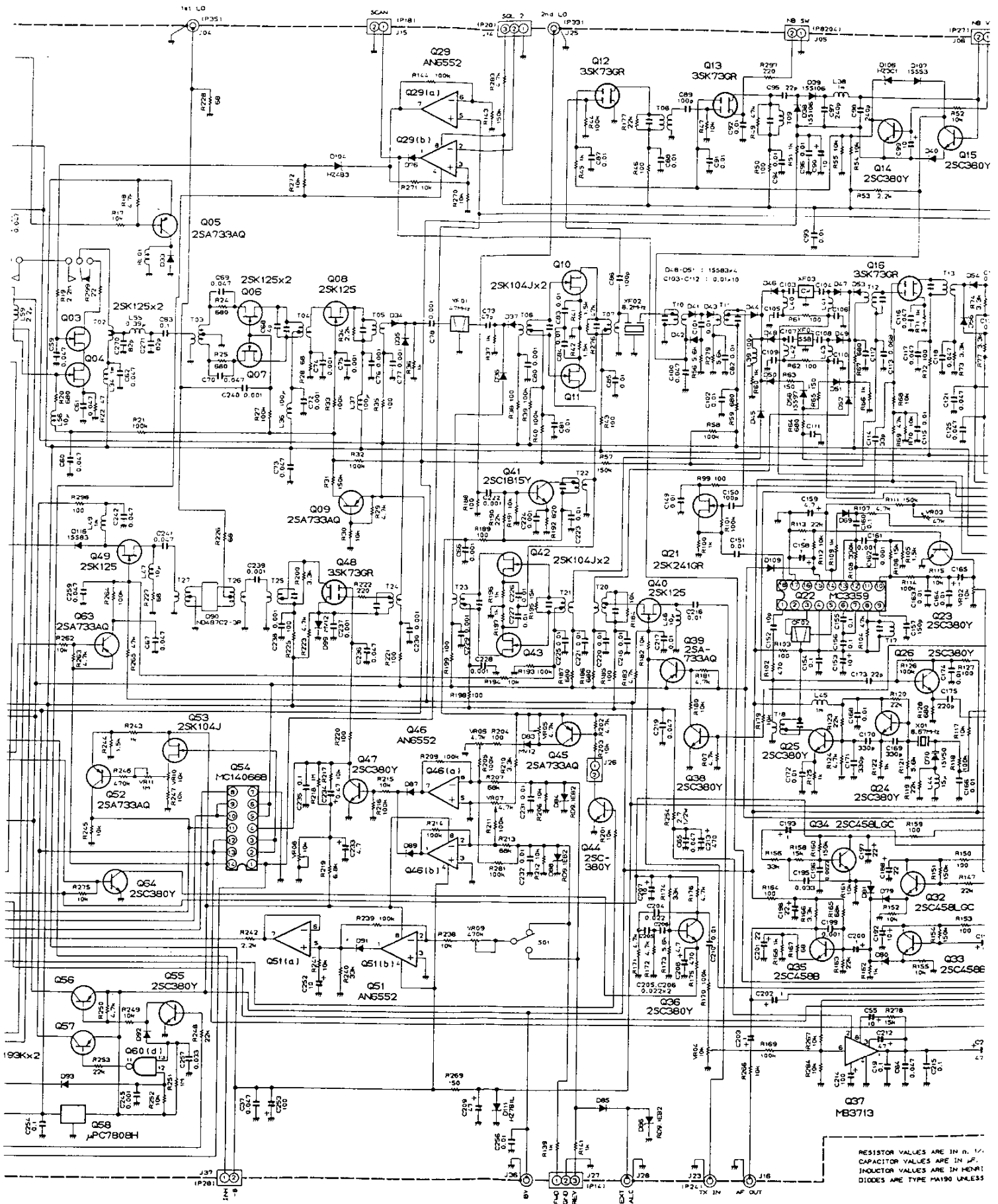
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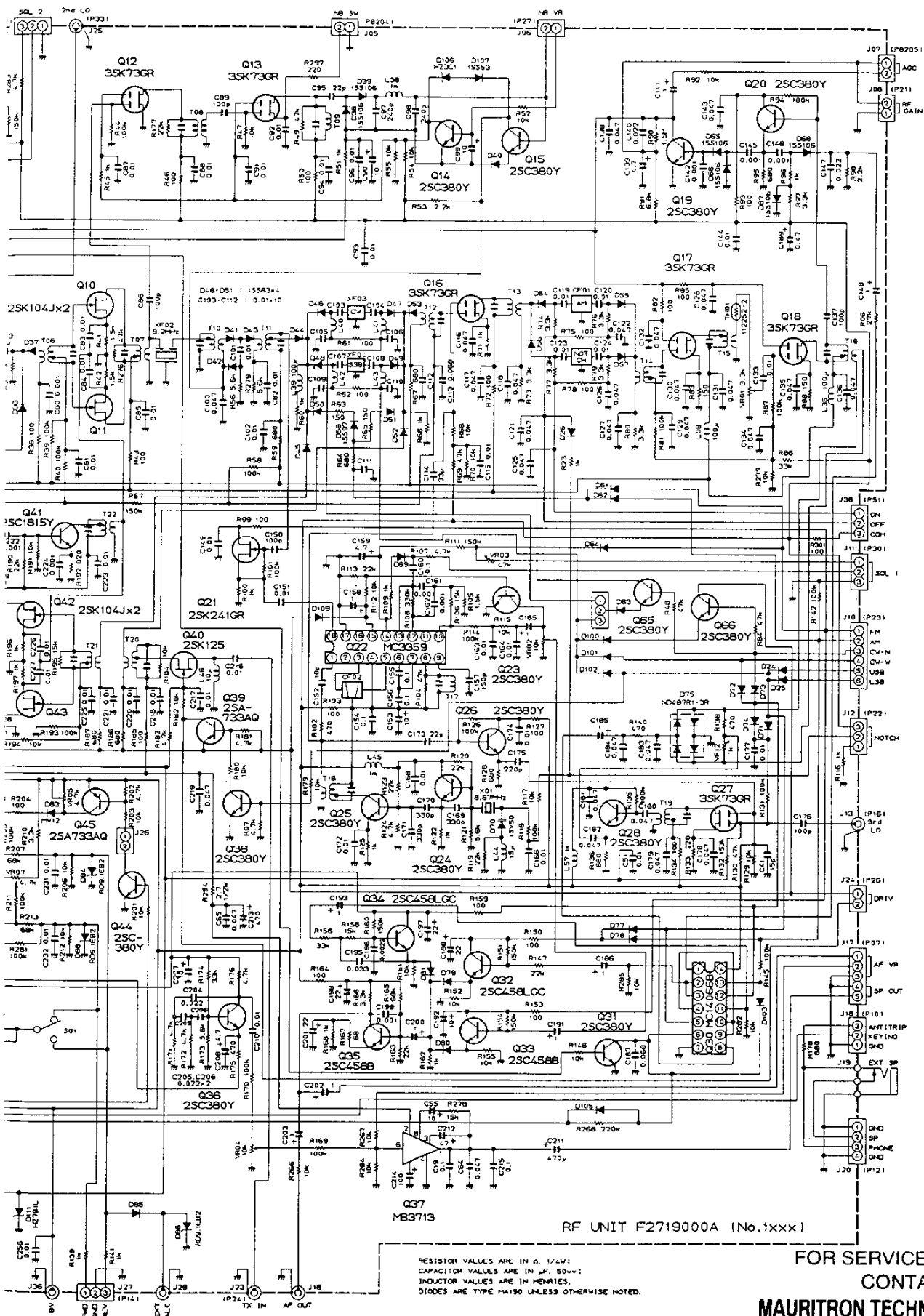
TEL: 01844 - 351694

FAX: 01844 - 352554





RESISTOR VALUES ARE IN Ω, K, M.
 CAPACITOR VALUES ARE IN P, μF.
 INDUCTOR VALUES ARE IN MH, μH.
 DIODES ARE TYPE 1N4190 UNLESS



RF UNIT F2719000A (No.1xxx)

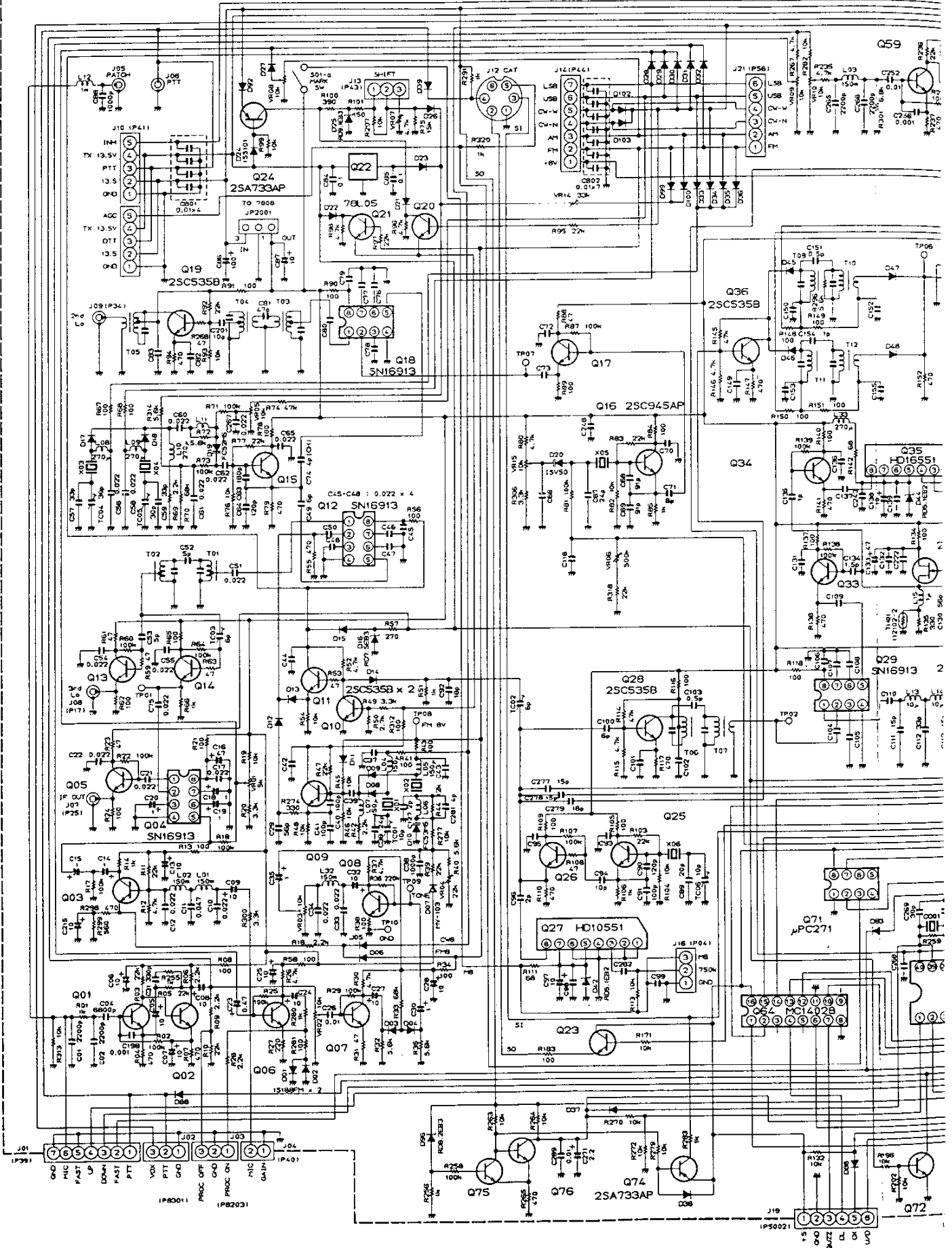
RESISTOR VALUES ARE IN OHMS UNLESS OTHERWISE NOTED.
 CAPACITOR VALUES ARE IN P.F. UNLESS OTHERWISE NOTED.
 DIODES ARE TYPE M190 UNLESS OTHERWISE NOTED.

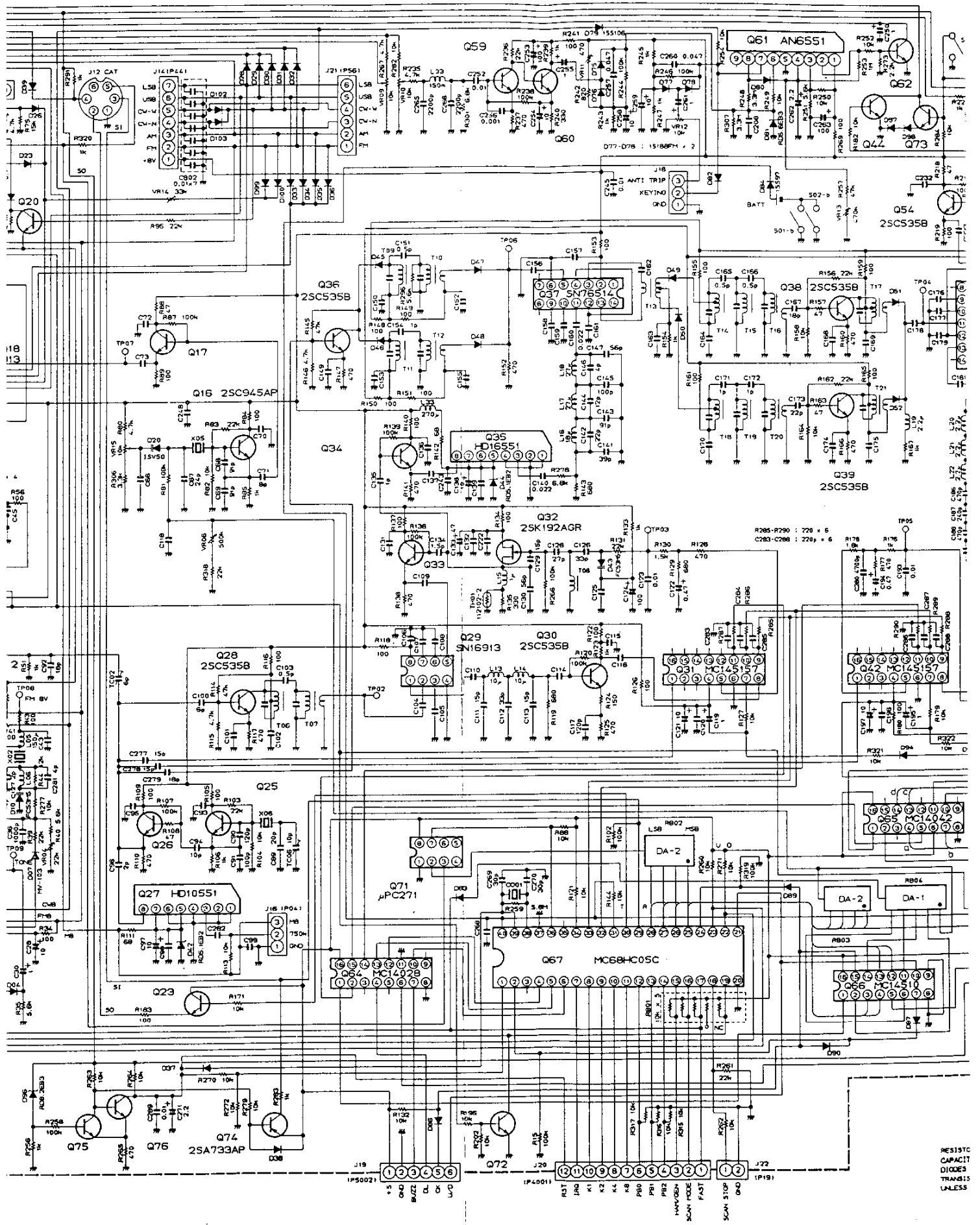
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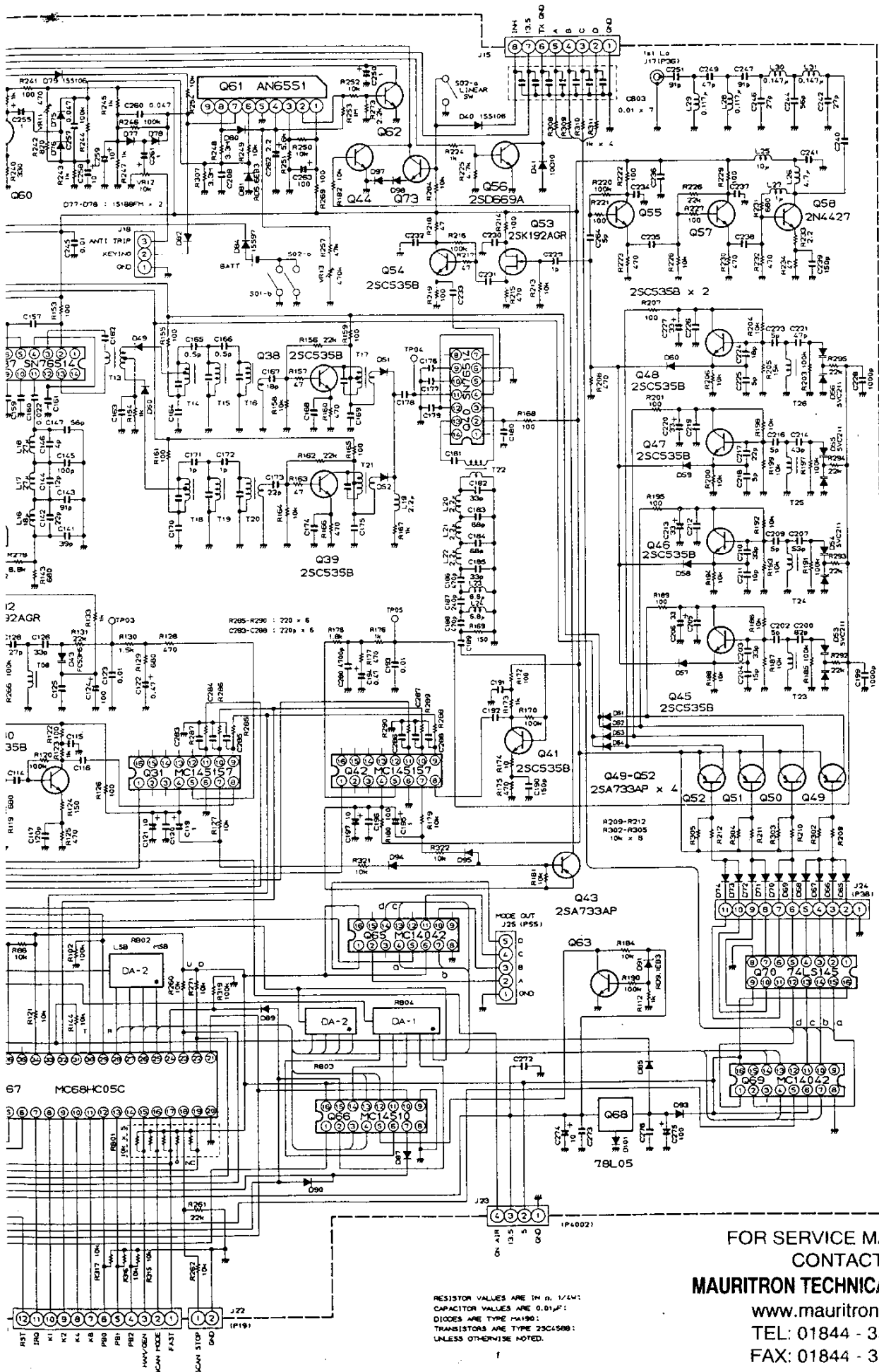
www.mauritron.co.uk
 TEL: 01844 - 351694
 FAX: 01844 - 352554

LOCAL UNIT F2718000B (No.2xxx)





RESISTOR
CAPACITOR
DIODES
TRANSISTORS
UNLESS
OTHERWISE
SPECIFIED



FOR SERVICE MANUALS
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 FAX: 01844 - 352554

RESISTOR VALUES ARE IN Ω, kΩ, MΩ;
 CAPACITOR VALUES ARE 0.01µF;
 DIODES ARE TYPE 1N190;
 TRANSISTORS ARE TYPE 25C535B;
 UNLESS OTHERWISE NOTED.