FRG-100

Technical Supplement



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Introduction



This manual provides technical inf ormation necessary for servicing the FRG-100 genral coverage communications receiver. It does not include information on specifications, installation, and Operation, which are described in the FRG-100 Operating Manual, provided with each receiver, or on FRG-100 accessories, which are described in manuals provided with each.

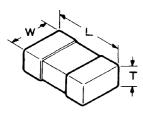
Servicing 'this equipment requires expertise in handling surface-mount components. Attempts by non-qualified persons to Service this equipment may result in permanent damage not covered by the warranty. While we believe the technical information in this manual to be correct, Yaesu assumes no liability for darnage 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 this receiver and the alignment procedures, in the interest of technological improvement, without notification of the 0 wners.

Chip Component Information

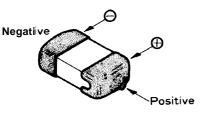
The diagrams below indicate some of the distinguishing features of common chip components.

Ceramic Capacifors

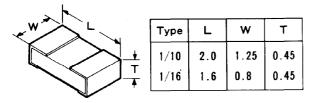


	(Unit : mn							
Туре	L	w	Т					
3216	3.2	1.6	0.45~0.60					
2125	2.0	1.25	0.35~0.50					
1608	1.6	0.8	0.65~0.95					

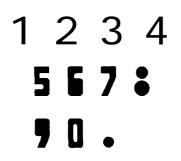
Tantalum Capacifors



Resistors



INDICATED LETTERS



Type RMC 1/10W,1/16W

Marking* 100,222,473.....

1'e unit	Multiplier
15 unit	
0	1 0°
1	10′
2	10 ²
3	10 ³
4	10′
5	1 0 °
6	10 [°]
7	10 [°]
8	1 0°
9	10°
	3 4 5 6 7 8

 $100 = 10\Omega$ $222 = 2.2k\Omega$ $473 = 47k\Omega$

Chip Component Information-Replacing Chip Components

Chip components are installed at the factory by a series of robots. The first one places a small spot of adhesive resin at the location where each part is to be installed, and later robots handle and place parts using vacuum suction.

For single sided boards, solder paste is applied and the board is then baked to harden the resin and flow the solder. For double sided boards, no solder paste is applied, but the board is baked (or exposed to ultra-violet light) to cure the resin before dip soldering.

In our laboratories and Service shops, small quantities of chip components are mounted manually by applying a spot of resin, placing with tweezers, and then soldering by very small dual streams of hot air (without physical contact during soldering). We remove parts by first removing solder using a vacuum suction iron, which applies a light steady vacuum at the iron tip, and then breaking the adhesive with tweezers.

The special vacuum/desoldering equipment is recommended if you expect to do a lot of chip replacements. Otherwise, it is usually possible to remove and replace chip components with only a tapered, temperature-controlled soldering iron, a set of tweezers and braided copper solder wick. Soldering iron temperature should be below 280" C (536° F).

Precautions for Chip Replacement

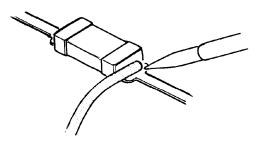
Do not disconnect a chip forcefully, or the foil Pattern may peel off the board.

Never re-use a chip component. Dispose of all removed chip components immediately to avoid mixing with new parts.

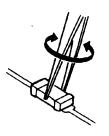
Limit soldering time to 3 seconds or less to avoid damaging the component and board.

Removing Chip Components

Remove the solder at each joint, one joint at a time, using solder wick whetted with nonacidic fluxes as shown below. Avoid applying pressure, and do not attempt to remove tinning from the chip's electrode.



□ Grasp the chip on both sides with tweezers, and gently twist the tweezers back and forth (to break the adhesive bond) while alternately heating each electrode. Be careful to avoid peeling the foil traces from the board. Dispose of the chip when removed.



After removing the chip, use the copper braid and soldering iron to wick away any excess solder and smooth the land for installation of the replacement part.

Chip Component Information

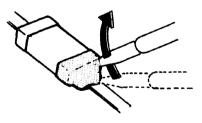
Installing a Replacement Chip

As the value of some chip components is not indicated on the body of the chip, be careful to get the right part for replacement.

Apply a small amount of solder to the land on one side where the chip is to be installed. Avoid too much solder, which may cause bridging (shorting to other parts).



Hold the chip with tweezers in the desired Position, and apply the soldering iron with a motion line as indicated by the arrow in the diagram below. Do not apply heat for more than 3 seconds.



Remove the tweezers and solder the electrode on the other side in the manner just described.

- Main Unit

- □ Turn off the receiver and disconnect all cables.
- □ Place the set on a stable work surface, and remove the 8 screws affixing the top cover (Figure 1).

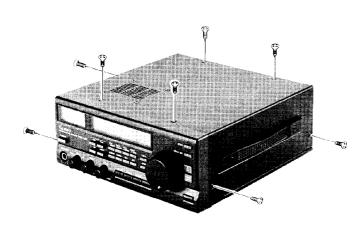


Figure 1.

- □ Carefully remove the top cover, paying special attention to the wire connecting the loud speaker to the main unit. The plug can be removed from the socket on the main board if desired (remember to reconnect before attaching the top cover again). This exposes the component side of the Main Unit.
- ☐ To remove the main unit, remove the 8 screws affixing the unit and the screws affixing the antenna terminal and **EXT DC** connector on the rear panel (Figure 2).

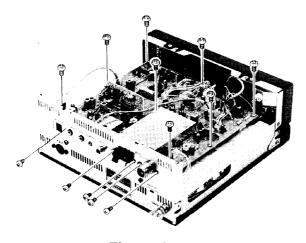


Figure 2.

Local Unit

□ To access the local unit, remove the 8 screws affixing the bottom cover (Figure 3).

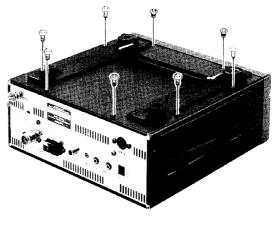


Figure 3.

0 To remove the local unit, remove the 7 screws affixing the unit, and the 2 screws used on the CAT connector on the rear panel. This exposes the component side of the Local Unit (Figure 4).

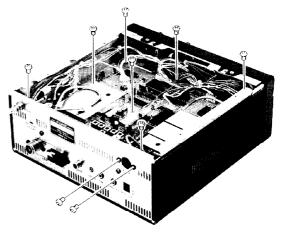


Figure 4.

Case Disassembly & Circuit Board Access-Display Unit

□ To access the Display Unit (including potentiometer, squelch, rotary encoder and headphone jack), remove both the top and bottom covers as previously described, then remove the 2 *middle* screws from both edges on each side of the display unit (Figure 1).

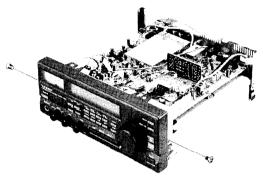


Figure 1.

Next *loosen* the 2 remaining screws Gently pull the unit away from the Chassis and fold it down (Figure 2).

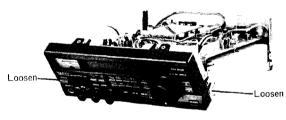


Figure 2.

- □ To remove the Display Unit, slightly *loosen* the hex nut affixing the main dial (do *not unscrew* it!) and pull it off, then remove the 2 screws located underneath (Figure 3).
- Gently pull off the VOL, SQL and MEM knobs, then remove the 4 screws (2-each, top & bottom) attaching the front panel to the display unit Chassis.



- 0 Remove the wiring connectors from the **SQL** and **VOL** controls on the rear of the Display Unit.
- Gently press in the plastic catch which mates with the tab on the Display Unit circuit board to release and lower the front panel (Figure 4).

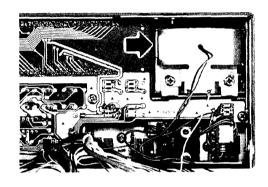
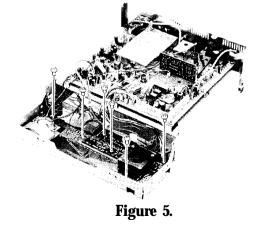


Figure 4.

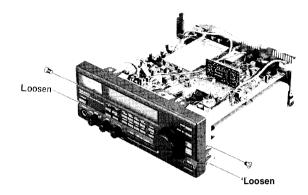
- □ Next, using a small flat screwdriver, gently pry out and remove the wiring connector from the back of the **MEM** knob, then remove the front **panel**.
- O Gently pull the **POWER**, **ATT** (2pcs.), NB, and **AGC** buttons out from the **panel**. Then remove the spring **screw**, nylon **washer**, **threaded** brass **collar** and **washer** affixing the rotary encoder shaft to the Chassis.
- 0 Remove and the 6 screws aff ixing the Display Unit circuit board to the Chassis (Figure 5).
- 0 Last, carefully remove the three wiring connectors from the bottom edge of the Display Unit circuit board to free the unit.



Case Disassembly & Circuit Board Access

Pilot Lamp Replacement

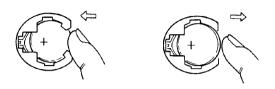
- □ Disconnect all cables and remove the top and bottom **covers** as previously described.
- Remove the 2 middle screws from both edges of the display unit and *loosen* the 2 lower screws at the edge of each side.



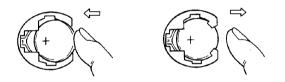
□ Locate the pilot light then pull it out from it's grommet, trace the two blue wires leading from the bulb to TP1005 & TP1006 on the corner of the circuit board as shown below. Carefully unsolder these wires to remove the lamp and resolder the replacement lamp assembly (polarity of the wires is not important).

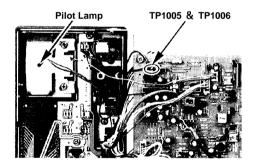
To change the backup cell, use your fingers to remove the old cell from it's holder (do not grab it with metal tweezers or pliers, as that could short it out). Replace only with Sony lithium type CR2032 (Yaesu Part No. Q900564), or equivalent.

Removing Lithium Cell



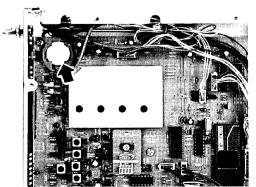
Slide cell inward, then pry up to eject Inserting Replacement Battery





Battery replacement

The lithium backup battery can be replaced by removing the bottom cover (as previously described). Battery location is shown below.



Slide battery downward through slot, then inward and release

Resetting the microprocessor

Functional problems involving frequency, mode and memory selection can sometime be resolved by simply resetting the microprocessor. There are two ways to reset the CPU in the FRG-100, both of which clear the contents of all memories, leaving them at the factory defaults.

Soft Reset

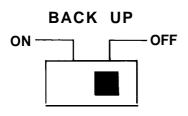
The procedure relies on a ROM routine which should normally suffice to correct most operating malfunctions.

□ Turn the receiver off, then hold the **MEM CLEAR** button while switching the receiver back on. If the problem still persists, proceed to the hard reset.

Case Disassembly & Circuit Board Access-

Hard Reset

Turn the receiver off, then disconnect the DC power Source. Turn the BACK UP switch on the rear panel to OFF. Reconnect the DC power Source, then turn the receiver back on.



BACK UP SWITCH

This description, together with the block diagram, is intended to provide a general understanding of the electrical functions of the circuits of the FRG-100. Such an understanding is necessary for troubleshooting the receiver. Refer to the schematics diagrams and parts lists for specific component and wiring details.

Front-End Stages

Incoming RF from the antenna jack is delivered to the main unit after passing through a 9:1 impedance transformer Tl004 (if HI-Z antenna is selected using the rear-panel switch) and surge suppresser D1005, which removes high voltage electrostatic pulses which might otherwise darnage components in the frontend. It is then low-pass filtered and attenuated (if enabled). The received signal is then impedance transformed by transformer T1018, then band-pass filtered to suppress intermodulation by Signals from other bands. The correct bandpass filter is selected by BCD control Signals from the PLL unit, and decoded by Q1032 (SN74LS145N). The signal is then once again impedance transformed by T1005, before entering the 1st mixer stage.

The signal then enters the balanced 1st mixer, consisting of Q1009/Q1013 (2SK125X2), along with the 1st local oscillator output from the local unit (47.260 ~ 77.210 MHz) which has been amplified by Q1006 (2SC2053), and low-pass filtered by C1014, L1005, C1013, L1004, and C1012. The resulting 47.21 MHz 1st mixer product passes through monolithic crystal filters XF1001 and XF1002 (\pm 20 kHz BW) where other unwanted mixer products are stripped away to produce the filtered 1st IF Signal.

IF Stages

The filtered 1st IF signal is then amplified by Q1011(3SK179), and applied to balanced 2nd mixer Q1010 & Q1012 (2SK302x2), which also receives the 2nd local signal generated from 46.775 MHz crystal X2002 and amplified by Q1008 (2SC2620), to produce the 455 kHz 2nd IE When FM Operation is selected, a portion of this 455 kHz product of the 2nd mixer is buff er-amplified by Q1038 and delivered to the optional FM UNIT-1 **00** for detection(when installed) For other modes, the 455 kHz signal is passes through the noise blanker gate (D1009, D1010 & D1014) and is then filtered by ceramic filters CF1 001, CF1002, or CF1 003 (depending on selected mode) where other products are stripped away

Final IF amplification is provided by Ql018, Ql017, and Q1016 (3SK131-V12) before the signal is applied to buffer amplifier Q1016 (3SK131-V12) and then enters detection circuitry.

For SSB and CW modes, the amplified IF signal is applied to the product detector consisting of D1033, D1038, D1039, and D1040 (1SS198x4). Here, it is mixed with the appropriate BFO(carrier) signal for either LSB, CW or USB from the DDS unit, having been buffered by Q1028. The detected signal then passes through a LPF consisting of R1129 and Cl141 before delivery to analog switch Q1023-4. The signal enters the active filter Q1026-1, which functions as a low pass filter for audio before delivery to analog switch Q1501.

For AM reception, another buffered output from the 2nd IF is detected by D1032, the output of which serves as both the detected AM signal and AGC. This signal then passes through the LPF formed by R1208 and Cl130 before delivery to analog switch Q1023-3 and on for audio amplification.

Aud io Amp lif iers

The low level detected audio in all modes pass through mute switch Q1023-1(when not muted by the squelch control lines), and then buffer amplifier Q1026-2. The signal passes through another mute circuit Q1031&Q1046 (DTC144EK) and is mixed with beeper audio from the microprocessor having passed through the LPF and VR1005. The mixed audio is amplified by Q1034 (TDA2003H) to drive a 4 ~ 8 Ω loudspeaker or headphone. The output from Q1034 is controlled by VOL

Circuit Description

Potentiometer VR3601 located on the VR Unit. A sample of the pre-amplified audio @ 600Ω is also delivered to the **REC** jack on the rear panel.

Noise Blanker & AGC Circuit

In the AM, SSB and CW modes, when the noise blanker is on, a portion of the 455 kHz 2nd IF signal is tapped from the output of T1011, then passes through noise blanker amplifiers Q1004 & Q1005 (3SK131-V12), and detected by D1003 & D1004, then fed back to the amplifiers Q1004 & Q1005, controlling their gain. The response time of this loop is designed so that noise pulses detected at D1003 &D1004 produce a strong DC pulse for the duration of each RF noise pulse. This DC blanking signal is returned to the noise blanking gate Controller (D1009, D1010 & D1014), switching them off during the noise pulse and preventing the 2nd IF signal from reaching the narrow IF filters while the noise is present.

Receiver AGC is provided for all modes, with a selectable fast or slow decay. The output signal from buffer amplifier Q1019 is rectified by AGC detector D1026 and D1027 (1SS198x2), and then delivered to AGC amplifier Q1020 (2SC2712). The signal is processed by Q1015(2SJ125), then amplified again by Q1014-1 and delivered to Q1011, Q1018, and Q1017 to control amplifier gain, S-meter and squelch level.

PLL Frequency Synthesizer

The PLL section on the Local Unit consists of Main Loop, DDS and the 2nd local oscillator circuitry. The PLL IC Q2030 (CX-7925B) contains a reference oscillator/divider, serialparallel data latch, programmable divider, and a phase comparator.

1st Local Signal Generation

The 1st local signal (47.260 ~ 77.210 MHz) is generated by PLL Synthesis under control of CPU on the Local Unit. In the main loop, one of VCOs Q2015~Q2018 is activated by the CPU and selected via Q2040 (M54564P)according to the frequency of Operation. The output of the selected VCO is buffered by Q2045 (2SK192) and Q2011(2SC535) before

delivery to mixer Q2012 (vIIX1037H).This signal is then mixed with the DDS signal and low-pass filtered, buffered by Q2021(2SK192) and amplified by Q2024 (2SC535) before being returned to PLL IC Q2030.

In the main divider/phase comparator section of PLL IC, the VCO signal is divided by 128, according to a control signal (serial divider programming data) from the CPU to produce 83. .92 kHz.

This signal is then applied to the phase detector section for phase-comparison with the 10.4875 MHz reference signal from the OSC **UN IT. Any** phase difference between the two signal will produce a 5-V pulsed-DC output with pulse duration depending on the phase difference. This pulse train is converted to DC by charge pump Q2025 (2SK184) and Q2023 (2SC732), and low-pass filtered to produce the varactor control voltage (VCV), and then is applied to the varactor D2002 ~ D2005 (1SV103x4) in the selected VCO to cause the VCO oscillating frequency to be phase-locked to the 10.4875 MHz reference.

The PLL local signal for Loop 1 is the product of either Loop 1 Local Mixer (Q2012), or the product of the output of this mixer further mixed with the 10.4875 crystal reference signal, according to the band of Operation.

2nd Local Signal Generation

A portion of 2nd local oscillator signal (46.755 MHz), which is derived from Q2031(2SK192)/X2002, is delivered to mixer Q2028(SN16913), it also is applied to the 2nd local amplifier (on the main unit) after attenuation and passing through the LPF formed by L2023, C21.46 & C2147.

The sampled reference signal (10.48576 MHz), which is generated by Q2030, is halved by frequency divider Q2032-2. The output from the divider (5.24288 MHz) is low-pass filtered, then mixed with the DDS output (286.16 ~ 368.07 kHz) in mixer Q2034 (SN1 6913), which is also controlled by the MPU. The output from Q2034 is band-pass filtered (5.57 MHz) by CF2001 before delivery to mixer Q2028 (SN16913) along with the 2nd local Signal. The mixer product is band-pass

Circuit Description

filtered before amplification by Q2019 (2SC535), and then applied to the mixer of the main loop Q2012 (uPC1037H) as a sub-loop signal.

Although the reference frequency of the main loop is 81.92 kHz, a 10 Hz receiving frequency step is obtained by mixing a subloop signal with the main loop. The VCO is thus phase-locked to the reference Signal.

Miscellaneous Con trol Logic

Band selection for the PLL Loop 1 Local signal is provided from the CPU by encoder Q2005 (M14558CP) and switch driver Q2040 (M54564P). Whenever either VCO Loop be-

comes unlocked, and unlock line (from pin 8 of Q2030) controlled by Q2027 (BA1A4P) signals the CPU, which then mutes receiver audio and blinks the display until the PLLs resume lock.

The MPU provides band (BPF) selection on the Main Unit via latch Q1032(SN74LS145N), and mode/filter selection using switching gates Q1023-2~Q1023-4 and Q1054.

Rotary encoded tuning data from the main dial is processes by dial counter Q2044 (FQ7924), and transferred to the MPU via an S-bit data bus. Q2041 contains a real-time clock with reference oscillator crystal. The FRG-100 is carefully designed to allow the knowledgeable Operator to make nearly all adjustments for various Station conditions, modes and Operator preferences simply from the controls on the front and rear panels, without having to open the case of the transceiver. The FRG-100 Operation manual describes these adjustments, plus certain internal settings.

The following procedures cover the sometimes critical and tedious adjustments that are not normally required once the transceiver has left the factory. However, if darnage OCcurs and some parts subsequently are 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 fault component has been replaced.

We recommend that servicing be performed by authorized Yaesu Service technicians, experienced with the circuitry and fully equipped for repair and alignment. So, if a fault is suspected, you should contact the selling dealer for instructions regarding repair. Authorized Yaesu Service technicians have the latest modification information, and realign all circuits and make complete performance checks to ensure compliance with factory specifications after replacing 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 interests of improved Performance, without notifying owners.

Under no circumstances should any alignment be attempted unless the normal function and Operation of the receiver 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 it's correct use) is necessary for complete realignment. Correction of the 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 un less 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.

- Digital DC Voltmeter
- **D** RF Millivoltmeter
- □ AF Millivoltmeter
- □ RF Standard Signal Generator/calibrated output and dB scale, 0 dB μ =0.5 μ V
- **T** Frequency Counter
- 0 FM Unit-100
- 0 SINAD Meter

Alignment Preparations & Precautions

- Except where specified otherwise, the receiver should be tuned to 14.2 MHz, and the following controls set as indicated;
- 0 all buttons off
- 0 all knobs fully CCW (minimum)

After completing one step, read the following step to determine whether the same test equipment will be required. If not, remove the test equipment before proceeding.

Correct alignment requires that the ambient temperature be the same as that of the receiver and test equipment, and that this temperature be held constant between 20 and 30° C (68 - 88° F). If the receiver is brought into the shop from hot or cold air it should be allowed some time for thermal equalization with the environment before alignment.

Alignments must only be made with the oscillator shields and circuit boards firmly in

Alignment

place. Only one extender board (if optional) should be installed at a time for access to the board being aligned. Also, the test equipment must be thoroughly warmed up before beginning.

Note: Signal levels in dB referred to in alignment are based on 0 dB μ =0.5 μ V.

Table note: DC voltages should be within $\pm 10\%$ of those listed in the voltage tables.

Local Unit

(1) Ref erence Oscillator

- Connect the frequency counter to TP2005.
- □ Adjust TC2701 for 10.485760 MHz ± 5 Hz.
- □ If the TCXO is installed, confirm 10.485760 MHz ±5 Hz on the counter.

(2) 2nd Local Oscillator

- **Connect** a 50- Ω resistor in parallel with the frequency counter across the socket J2011.
- □ Adjust T2004 for 46.755 MHz ±600Hz on the counter.
- 0 Replace the counter with the RF millivoltmeter, and confirm at least 45 mVrms.
- 0 Connect the RF millivoltmeter to TP2001, and adjust T2001, T2002, and T2003 for maximum indication (at least 60 mVrms) on the meter.
- (3) vco

VCO1 and 2

- 0 Tune the receiver to 3.999 MHz and select USB mode.
- 0 Connect the DC Voltmeter to TP2002 (while adjusting VCOs, connect the DC Voltmeter to TP2002)
- 0 Adjust L2003 for 7.0 \pm 0.1 V.
- □ Confirm the voltage as shown below.

Frequency (MHz)	Volts DC
0.050	0.9 ~ 1.4
4.000	1.4 ~ 1.9
7.999	6.0 ~ 7.0

vco3

- 0 Tune the receiver to 14.499 MHz in USB mode.
- 0 Adjust L2005 for 7.0 V ti.l V.
- 0 Tune the receiver to 8.00 MHz, and confirm 1.1 to 1.6 V on the meter.

vco4

- 0 Tune the receiver to 21.999 MHz in USB mode.
- 0 Adjust L2006 for 7.0 V fl.1 V.
- □ Tune the receiver to 14.500 MHz, and confirm 0.8 to 1.3 volts on the meter.
- vco5
- 0 Tune the receiver to 30.000 MHz in USB mode.
- □ Adjust L2007 for 7.0 V ±0.1 V.
- □ Tune the receiver to 22.000 MHz, and confirm 1.4 to 1.9 V on the meter.

Main Unit

(1) 2nd Local Amplifier

- Connect the RF millivoltmeter to TP1003.
- 0 Adjust Tl003 on the local unit for maximum (at least 500 mV) on the meter.

(2) IF Werstage Transformer

- O Install the FM Unit (Option) to the Main Unit, and select FM mode.
- □ Connect the RF signal generator to the antenna jack, and inject an 80 dBµ signal at 14.200 MHz.
- 0 Adjust Tl006 through Tl009 for Optimum 12dB SINAD (adjust the injection level as necessary).
- 0 Turn the modulation switch (of the signal generator) off, and inject an 80 dBµ signal at 14.200 MHz.
- 0 Adjust T1011 through T1017 and Tl019 in succession several times for peak S-meter indication. (adjust the injection level as necessary)

(3) IF Gain

 \square Inject 6 dBµ at 14.200 MHz to the antenna jack, and tune for peak on the S-meter.

□ Adjust VR1002 for S-l deflection.

(4) S-Meter Full-Scale

- \Box Inject 100 dB μ at 14.200 MHz to the antenna jack, and tune for peak on the S-meter.
- □ Adjust VR1001 for S9 +60 dB on the S-meter.

(5) Noise Blanker

- □ With the receiver tuned to 14.200 MHz, press the **NB** button.
- □ Inject 40 dBµ at 14.200 MHz to the antenna jack, and connect the DC Voltmeter to TP1003.

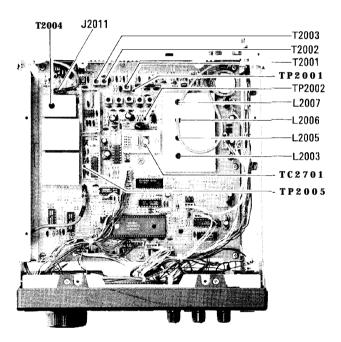
□ Adjust Tl001 and Tl002 for minimum voltage on the meter (adjust the injection level as necessary).

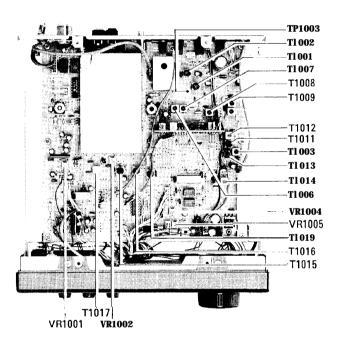
(6) SSB Squelch Threshold

0 In the USB mode, with no signal at the antenna jack, set the SQL control to the 11o'clock Position, and adjust VR1004 so that the squelch just closes.

(7) Beep Level

0 Set VR1005 to the 10-o'clock position.

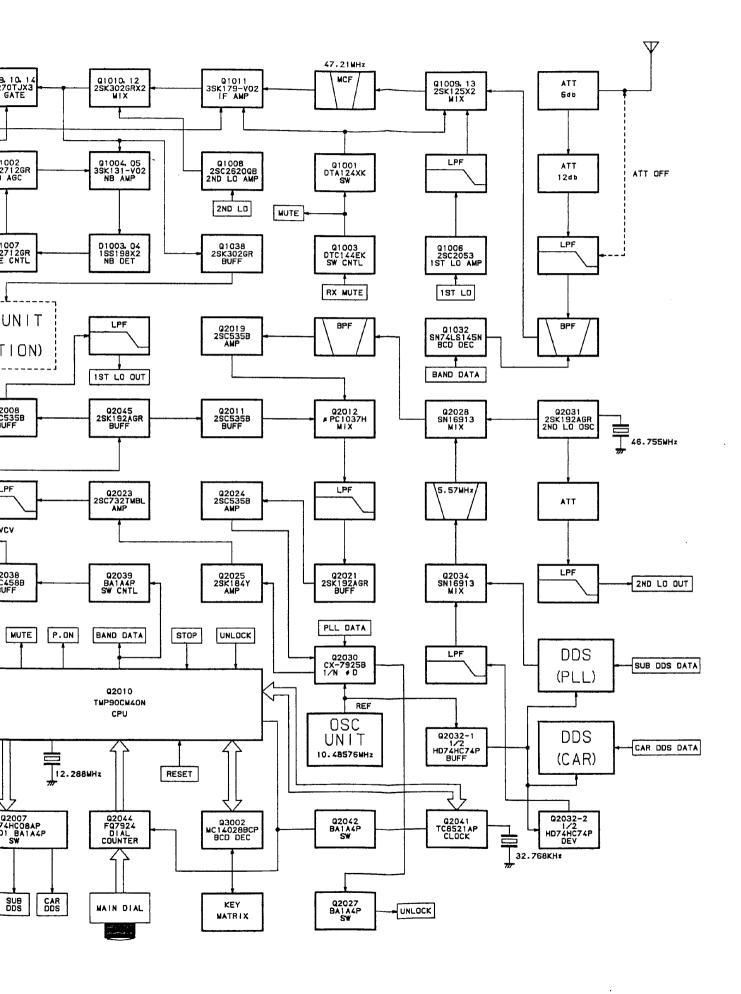


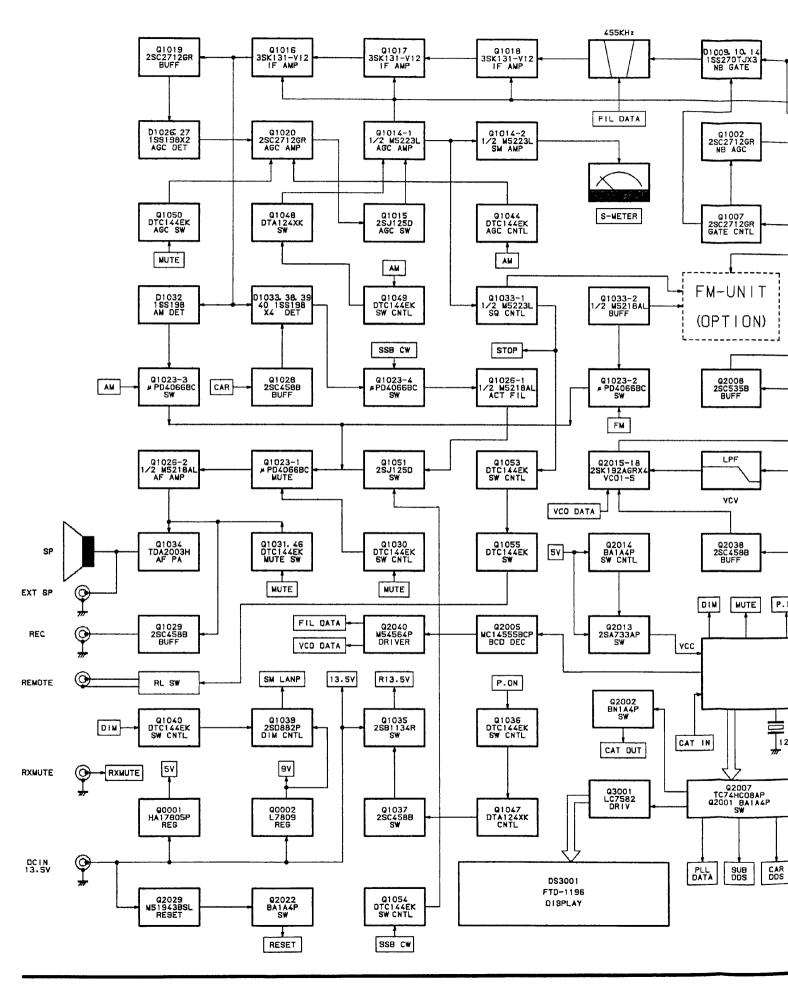


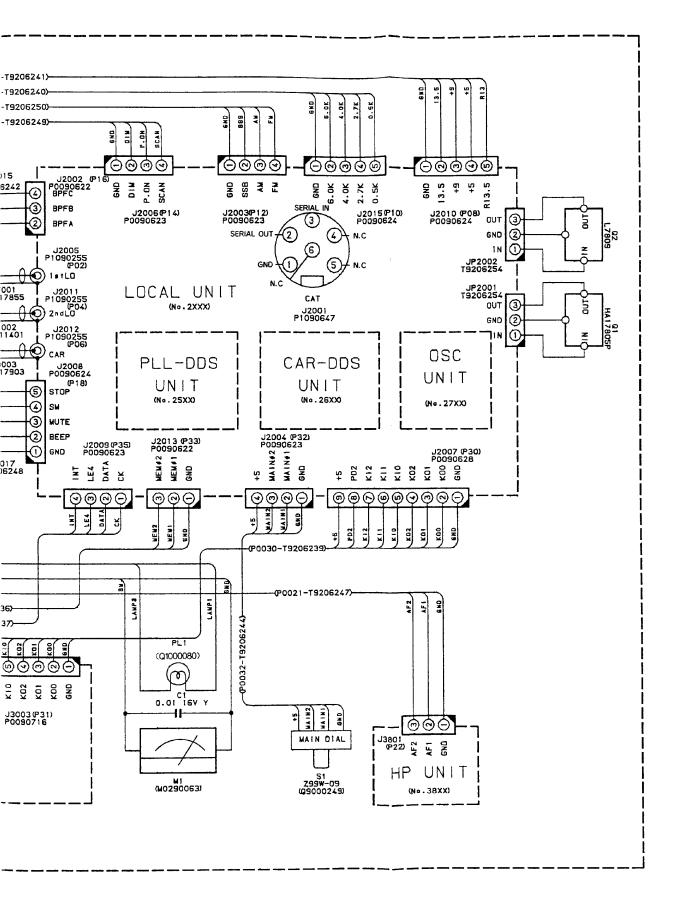
-Block Diagram

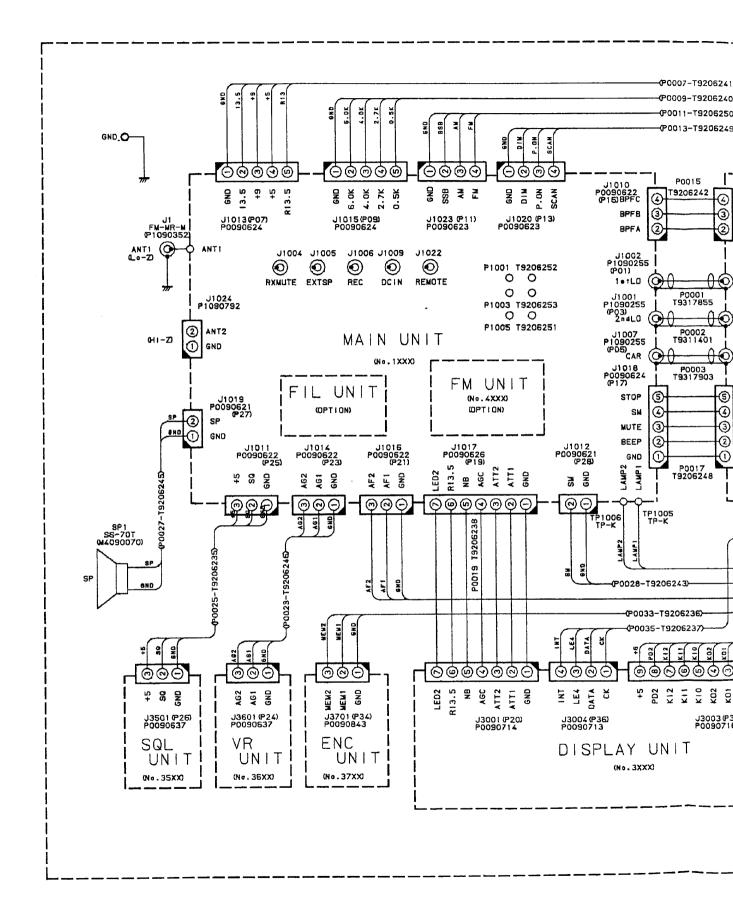
· ...

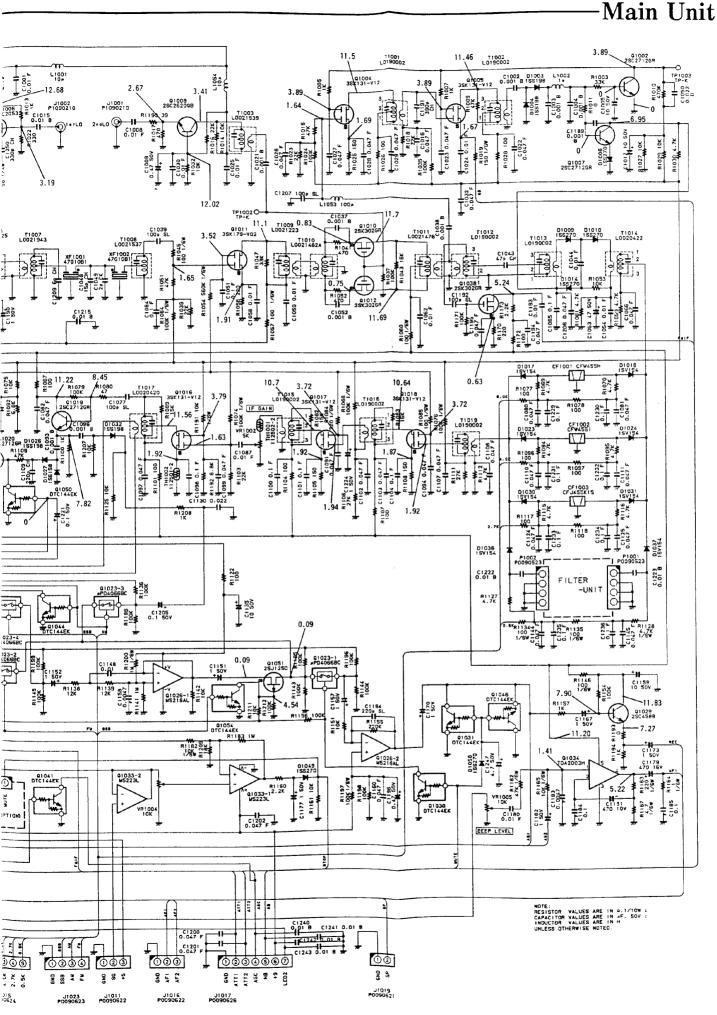
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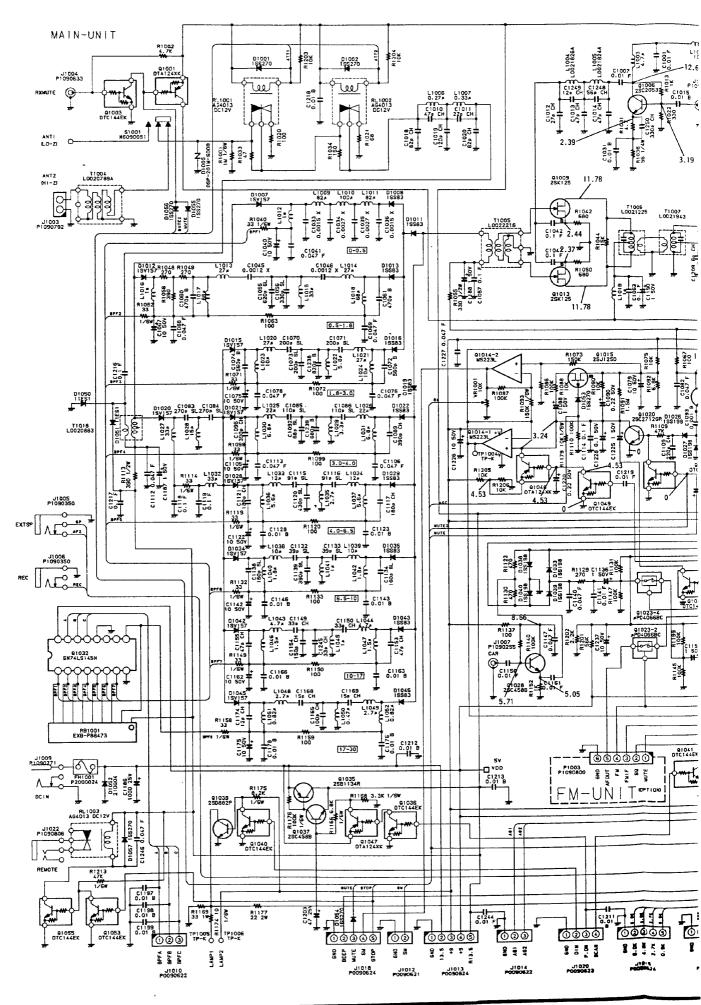


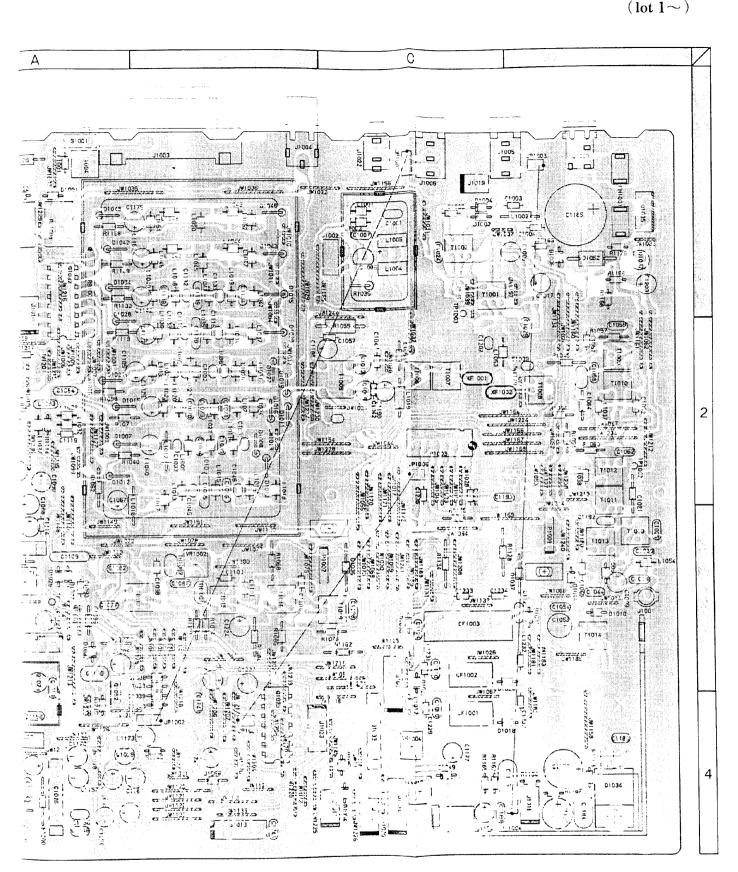






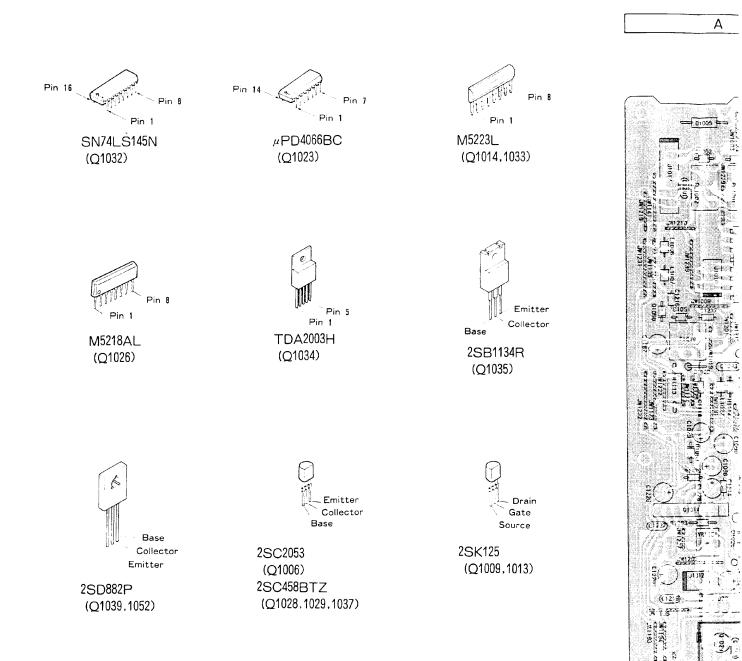
-6A-1





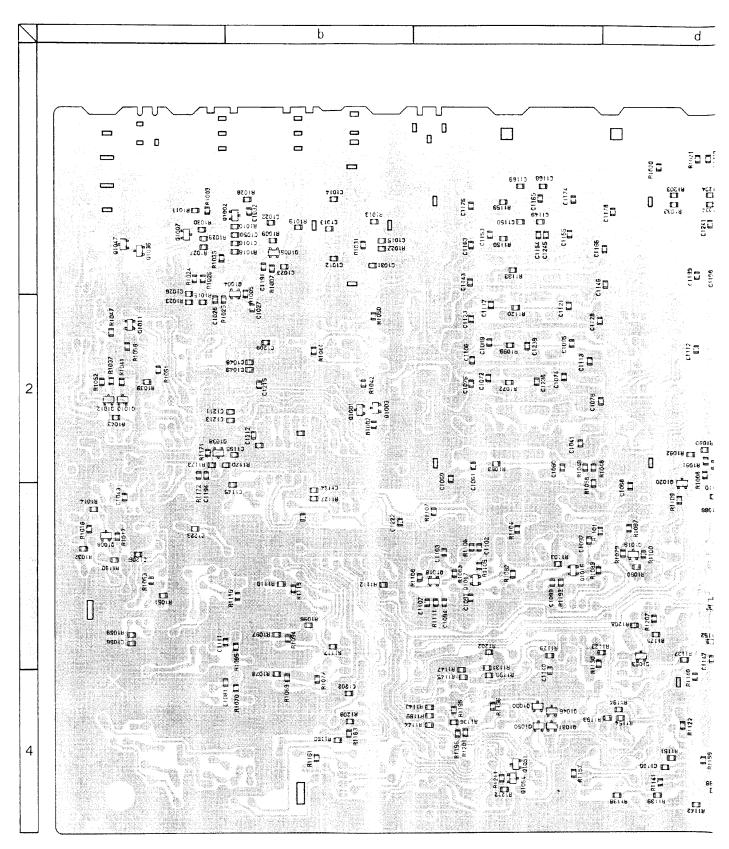
component side

Main Unit

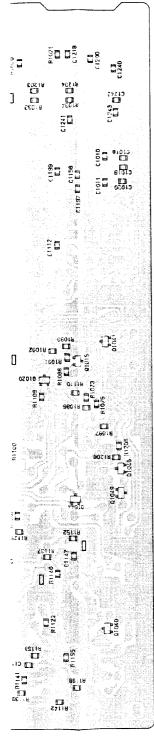


5

 $\underset{(lot 1 \sim)}{\text{Main Unit}}$



chip



d



3SK131 (V12) (Q1004.1005.1016 1017.1018 3SK179 (V02) (Q1011)



2SK302GR (TG) (Q1010,1012,1038)



2SJ125D (JD) (Q1015,1051)



DTC144EK (26) (Q1003.1030.1031 1036.1040.1041 1044.1046.1049 1050.1053.1054

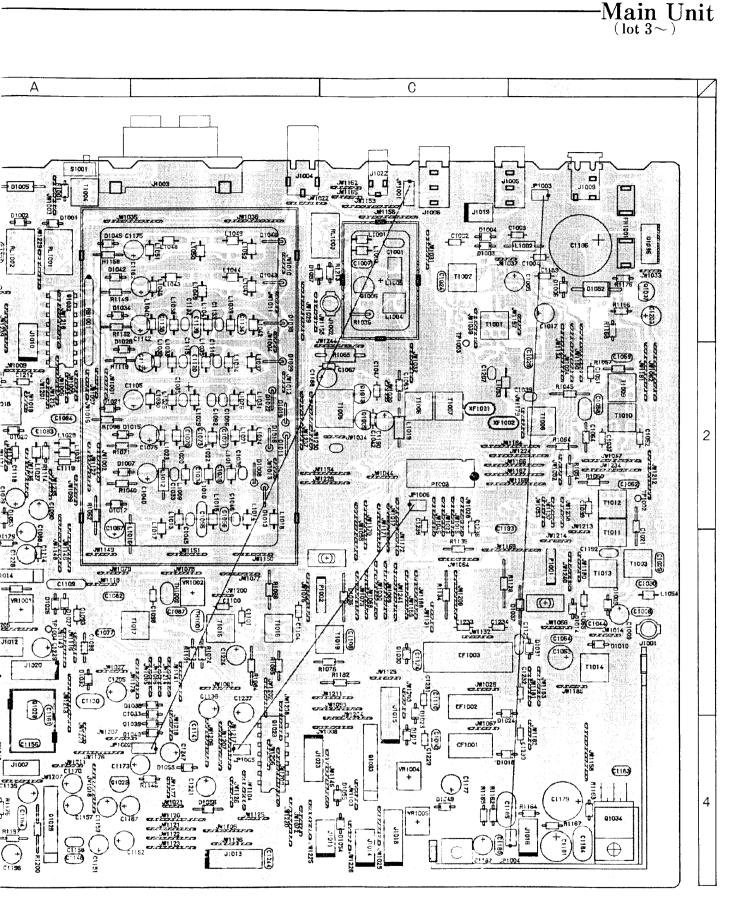


DTA124XK (35) (Q1001,1047,1048)

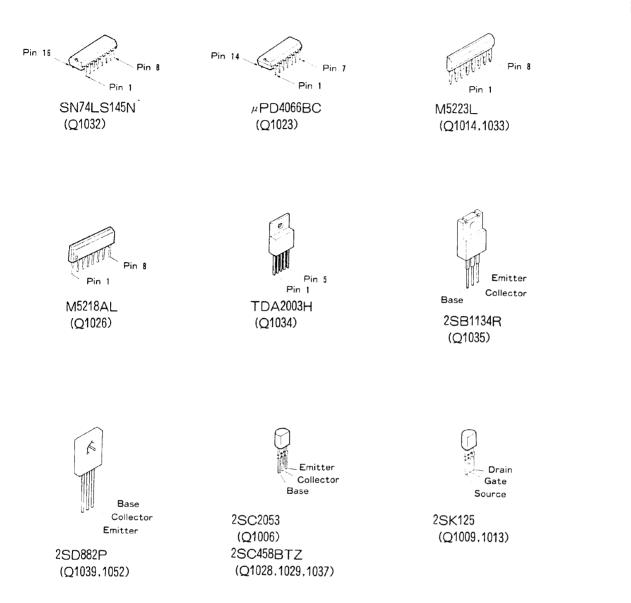


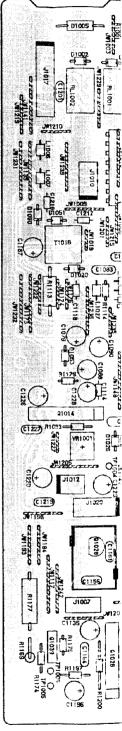
2SC2712GR (LG) (Q1002.1007.1019 1020 2SC2620QBTR (QB) (Q1008)

chip-only side



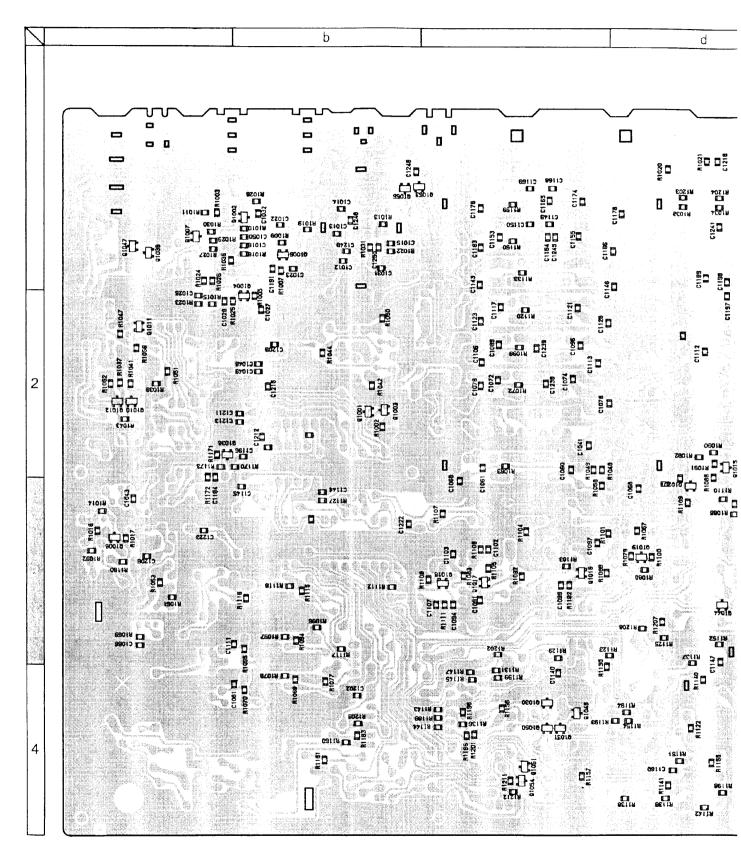
component side



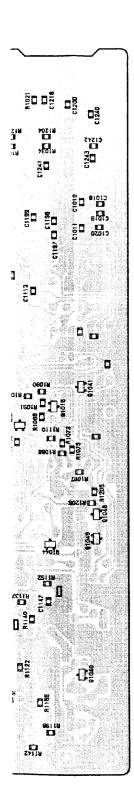


Α

 $\operatorname{Main}_{(\operatorname{lot} 3\sim)}\operatorname{Unit}$

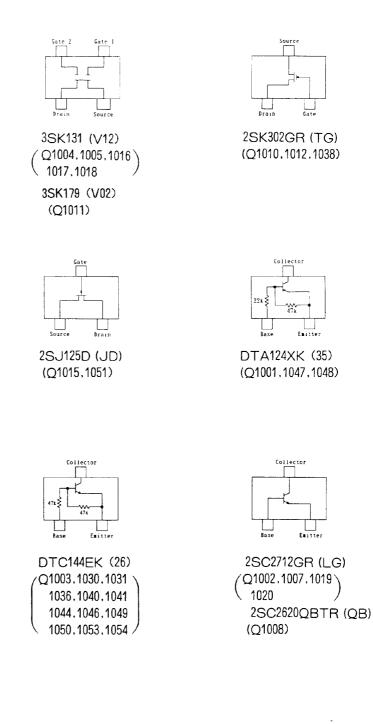


chip-only s

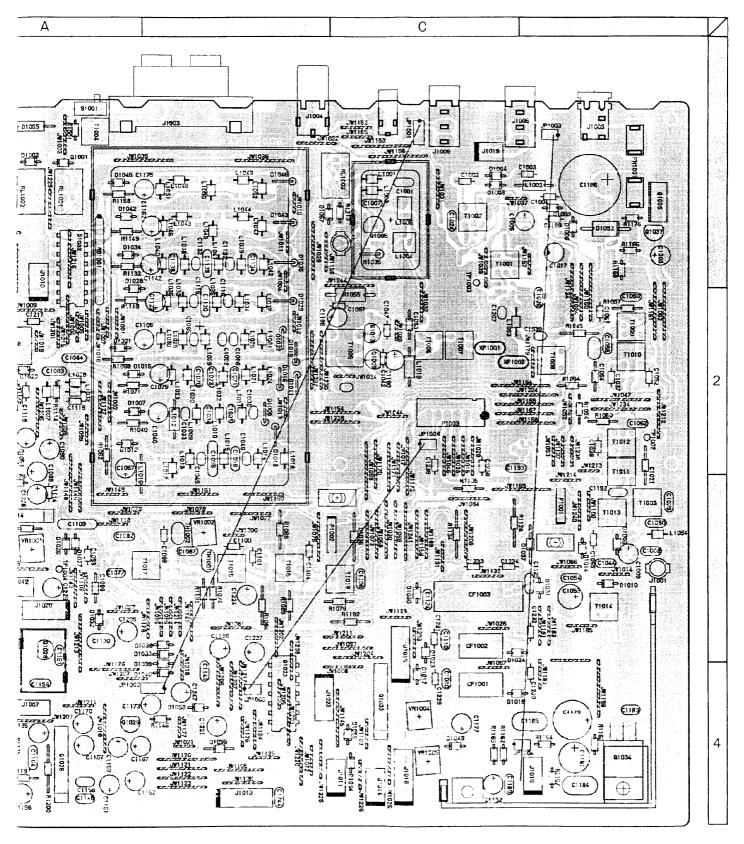


d

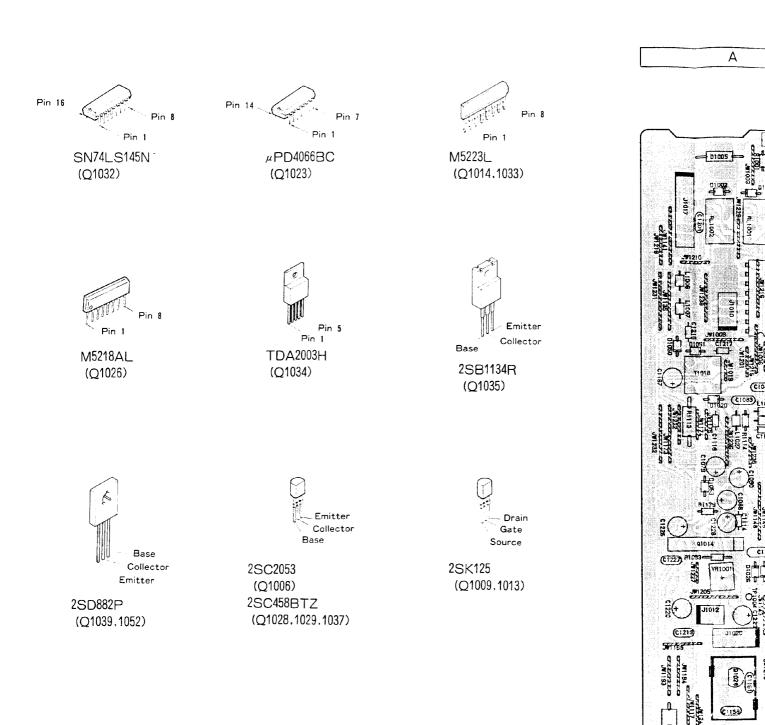
>-only side



Display Unit



component side



(159

22.5

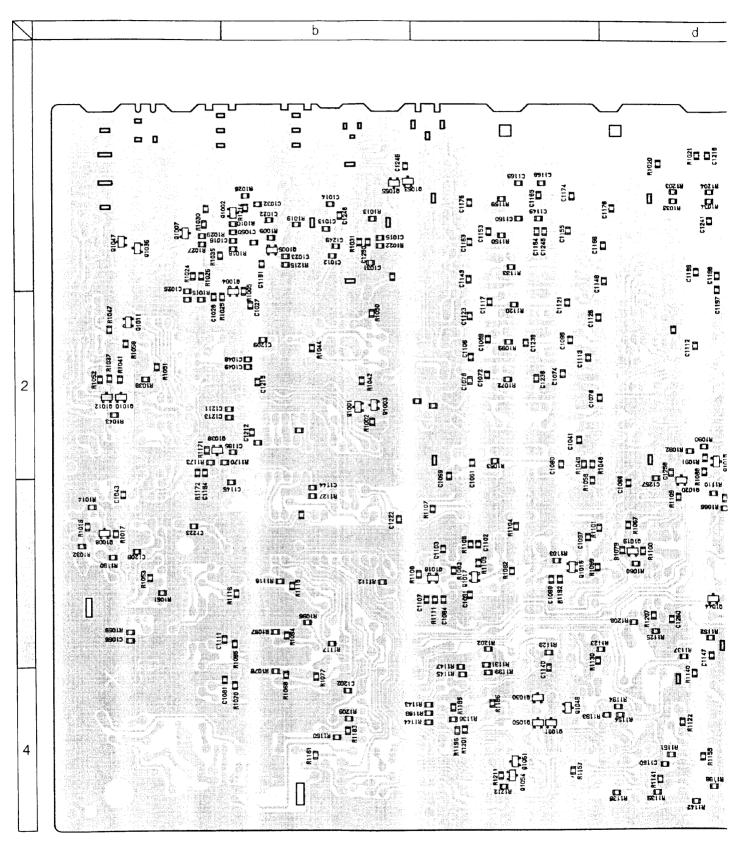
J1007

17110 R1177

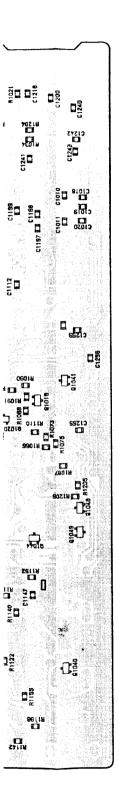
J10

Display Unit-

 $(lot 5\sim)$

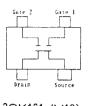


chip-only :



d

-only side



3SK131 (∨12) (Q1004.1005.1016 1017.1018 3SK179 (V02) (Q1011)



2SJ125D (JD) (Q1015,1051)



DTC144EK (26) (21003.1030.1031 1036.1040.1041 1044.1046.1049 1050.1053.1054



2SK302GR (TG) (Q1010.1012.1038)



DTA124XK (35) (Q1001,1047,1048)



2SC2712GR (LG) (Q1002,1007,1019) 1020 2SC2620QBTR (QB) (Q1008)

	REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	lot	ADDR.
o .			*** MAIN	UNIT	***					
		P.C.B. With Comp	onents				CA0853001			
		Printed Circuit Printed Circuit Printed Circuit	Board				F3332000 F3332000A F3332000B		1- 3- 5-	
	C 1002 C 1003 C 1004 C 1005 C 1007 C 1008 C 1009 C 1010 C 1010 C 1011 C 1012 C 1013 C 1014 C 1015 C 1016 C 1017 C 1018 C 1017 C 1018 C 1019 C 1020 C 1021 C 1022 C 1023 C 1024 C 1025 C 1026 C 1027 C 1028 C 1027 C 1028 C 1029 C 1020 C 1021 C 1022 C 1022 C 1023 C 1024 C 1025 C 1026 C 1027 C 1028 C 1027 C 1031 C 1031 C 1032 C 1033 C 1034 C 1035 C 1036 C 1037 C 1038 C 1039 C 1039 C 1040 C 1041 C 1042	CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. AL. ELECTRO. CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. AL. ELECTRO. CAP. CHIP CAP.	0.01uF 0.001uF 0.001uF 10uF 0.01uF 0.01uF 0.01uF 0.47uF 47pF 22pF 27pF 47pF 47pF 0.01uF 0.047uF 10uF 82pF 120pF 82pF 120pF 82pF 0.001uF 0.047uF	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V	B F CH CH CH CH CH F	UP050B102K-A-B UP050B102K-A-B UP050B102K-A-B 50V100M5X11TR5 DD106-979F103250 DD106-979F103250 50VR47M5X11TR5 GRM40CH470J50PT GRM40CH270J50PT GRM40CH270J50PT GRM40CH470J50PT GRM40CH470J50PT GRM40CH470J50PT GRM40F473Z50PT 50V100M5X11TR5 GRM40CH820J50PT	K26170657 K28179001 K28179001 K28179001 K26170657 K26170657 K26170657 K26170227 K22170227 K22170227 K22170227 K22170227 K22170233 K22170233 K22170233 K22170233 K22170233 K22170233 K22170233 K22170233 K22170233 K22170233 K2217008 K26170726 K26170657 K22171008 K26170726 K26170706 K26170706 K26170706 K26170706 K26170706 K26170706 K26170706 K2617070706 K26170707070707070707070707070707070707070		2-	
	C 1044	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			

Main Unit-

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
C 1045	CERAMIC CAP.	0. 0012uF	50V	Х	UAU04X122K7L36VC	K26170702			
C 1046	CERAMIC CAP. CERAMIC CAP. CHIP CAP. CHIP CAP. CHIP CAP. CHIP CAP. CERAMIC CAP.	0.0012uF	50V	Х	UAU04X122K7L36VC	K26170702			
C 1047	CERAMIC CAP.	0. 1uF	50V	F	UP050F104Z-A-B	K28179003			
C 1048	CHIP CAP.	15pF	50V	СН	GRM40CH150J50PT	K22170215			
C 1049	CHIP CAP.	2pF	50V	СК	GRM40CK020C50PT	K22170203			
C 1050	CHIP CAP.	0. 022uF	50V	В	GRM40B223M50PT	K22170821			
C 1051	CERAMIC CAP.	0. 1uF	50V	F	UP050F104Z-A-B	K28179003			
C 1052	CERAMIC CAP.	0.001uF	50V	В	UP050B102K-A-B	K28179001			
C 1053	AL. ELECTRO. CAP.	47uF	50V		50V470M6X11TR5	K46170024			
C 1054	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 1055	CERAMIC CAP.	620pF	50V	SL	DD110-979SL621J50	K26171048			
C 1056	CERAMIC CAP.	330pF	50V	SL	DD107-979SL331J50	K26171041			
C 1057	CERAMIC CAP.	0. 1uF	50V	F	UP050F104Z-A-B	K28179003			
C 1058	CERAMIC CAP.	0.01uF	500	F	DD106-979F103Z50	K26170657			
C 1059	CERAMIC CAP.	0.01uF	500	F	DD106-979F103Z50	K26170657			
C 1060	CHIP CAP.		500	B	GRM40B471M50PT	K22170801			
	CHIP CAP.		507	В	GRM40B471M50PT	K22170801			
C 106Z	CERAMIC CAP.		500	۲ P	DD106-979F103Z50	K26170657			
0 1003	CERAMIC CAP.		500	ľ F		K28179003			
0 1004	CERAMIC CAP.			ן ק	UP050F104Z-A-B UP050F104Z-A-B GRM40F473Z50PT 50V100M5X11TR5 GRM40F473Z50PT GRM40F473Z50PT	K28179003			
C 1000	CERAMIC CAP.		50V	r F		K28179003			
C 1000		0.04/UF	50V	Г		K46170021			
C 1007		10ur 0 047.1F		D		K4017UU21			
C 1000		0.047ur	50V	ר ס	CDMAOF4732750DT	K22171000			
C 1003		2005F	50V 50V	r CI	DD106-979SL201J50	K26171026			
C 1070	CHIP CAP. AL. ELECTRO. CAP. CHIP CAP. CHIP CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP.	200pr 200pF	50V 50V		DD106-979SL201350				
C 1071	CHIP CAP.	560pF	50V 50V		GRM40B561M50PT	K22171030			
C 1073	CERAMIC CAP	200nF	50V	12	DD106-070SI 201 I50				
C 1074	CHIP CAP	560pF	50V	R	GRM40B561M50PT	K22170802			
C 1075	CHIP CAP. AL. ELECTRO. CAP. CHIP CAP.	10uF	50V	D	50V100M5X11TR5	K46170021			
C 1076	CHIP CAP.	0.047nF	50V	F	GRM40F473Z50PT	K22171008			
C 1077	CERAMIC CAP.	100pF	50V	SL	DD105-979SL101J50	K26171029			
	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008			
	AL. ELECTRO. CAP.	10uF	50V	-	50V100M5X11TR5	K46170021			
	CERAMIC CAP.	0.047uF	50V	F	DD306-979F473Z50	K26170726			
C 1081	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008			
	CERAMIC CAP.	0.047uF	50V	F	DD306-979F473Z50	K26170726			
C 1083	CERAMIC CAP.	270pF	50V	SL	DD107-979SL271J50	K26171039			
	CERAMIC CAP.	270pF	50V	SL	DD107-979SL271J50	K26171039			
	CERAMIC CAP.	110pF	50V	SL	DD105-979SL111J50	K26171030			
	CERAMIC CAP.	110pF	50V	SL	DD105-979SL111J50				
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	AL. ELECTRO. CAP.	luF	50V		50V010M5X11TR5	K46170017			
	CHIP CAP.	390pF	50V	СН	GRM40CH391J50PT	K22170249			
	AL. ELECTRO. CAP.	0.22uF	50V	_	50VR22M5X11TR5	K46170014			
	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008			
	CERAMIC CAP.	68pF	50V	SL	DD104-979SL680J50	K26171025			
	CERAMIC CAP.	0.001uF	50V	B	UP050B102K-A-B	K28179001			
	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008			
0 1095	CHIP CAP.	390pF	50V	СН	GRM40CH391J50PT	K22170249			

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
C 1096	CERAMIC CAP. CHIP CAP. CERAMIC CAP. CHIP CAP. CERAMIC CAP. CERAMIC CAP. CHIP CAP. CHIP CAP. CHIP CAP. CERAMIC CAP. CHIP CAP. CHIP CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CHIP CAP.	0.001uF	50V	В	UP050B102K-A-B	K28179001			
C 1097	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008			
C 1098	CERAMIC CAP.	0.1uF	50V	F	UP050F104Z-A-B	K28179003			
C 1099	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008			
C 1100	CERAMIC CAP.	0.1uF	50V	F	UP050F104Z-A-B	K28179003			
C 1101	CERAMIC CAP.	0.1uF	50V	F	UP050F104Z-A-B	K28179003			
C 1102	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008			
C 1103	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008			
C 1104	CERAMIC CAP.	0.1uF	50V	F	UP050F104Z-A-B	K28179003			
C 1105	AL. ELECTRO. CAP.	10uF	50V		50V100M5X11TR5	K46170021			
C 1106	CHIP CAP.	0.047uF	500	۲ ۲	GRM40F473Z50PT	K22171008			
C 1107	CHIP CAP.	0.047uF	500	ľ	GRM40F473Z50PT	K22171008			
C 1108	CERAMIC CAP.	0.047uF	500	F	DD306-979F473250	K26170726			
C 1109	CERAMIC CAP.	220pF	500	CH	DD111-979CHZZ1J50	KZ6171111			
	CERAMIC CAP.	0.047uF	500	1	DD306-979F473250	K2017U720			
	CHIP CAP.	0.047 ur	50V	r v		K22171000			
0 1112		0.047ur	50V 50V	ר ס	GRM40F47323C0F1 CDM40F473750DT	K22171000			
C 1113	CEDIMIC CAD	0.047ur 0.1.1F	50V 60V	r F		K22171000			
0 1114	CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CHIP CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CHIP CAP. AL. ELECTRO. CAP. CHIP CAP. CERAMIC CAP. CERAMIC CAP.		50V 50V	л СІ	DD105-979SL910J50	K26171028			
C 1115		01pF	50V	SL.	DD105-979SL910J50	K26171020			
C 1117		180nF	501	СН	GRM40CH181J50PT				
C 1118	CERAMIC CAP		50V	F	UP050F104Z-A-B				
C 1119	CERAMIC CAP.	$0.1 \mathrm{nF}$	50V	, F	UP050F104Z-A-B	K28179003			
C 1120	CERAMIC CAP.	430pF	50V	SL	DD109-979SL431J50				
C 1121	CHIP CAP.	180pF	50V	ĊH	GRM40CH181J50PT	K22170241			
C 1122	AL. ELECTRO. CAP.	10uF	50V	•	50V100M5X11TR5 GRM40B103M50PT DD306-979F473Z50	K46170021			
C 1123	CHIP CAP.	0.01uF	50V	В	GRM40B103M50PT	K22170817			
C 1124	CERAMIC CAP.	0.047uF	50V	F	DD306-979F473Z50	K26170726			
C 1125	CERAMIC CAP. CHIP CAP. FILM CAP. CERAMIC CAP.	0.047uF	50V	F	DD306-979F473Z50 GRM40B103M50PT 50F2U223M	K26170726			
C 1128	CHIP CAP.	0.01uF	50V	В	GRM40B103M50PT	K22170817			
C 1130	FILM CAP.	0.022uF	50V		50F2U223M	K50177223			
C 1132	CERAMIC CAP.	39pF	50V	SL	DD104-979SL390J50	K26171019			
C 1133	CERAMIC CAP.	39pF	50V	SL	DD104-979SL390J50				
	CERAMIC CAP.	160pF	50V	SL	DD106-979SL161J50				
	AL. ELECTRO. CAP.	10uF	50V		50V100M5X11TR5	K46170021			
	AL. ELECTRO. CAP.	luF	50V	01	50V010M5X11TR5	K46170017			
	CERAMIC CAP.	160pF	50V	SL	DD106-979SL161J50				
	CERAMIC CAP.	390pF	50V	SL	DD108-979SL391J50				
	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT DD106-979F103Z50	K22171008 K26170657			
-	CERAMIC CAP. AL. ELECTRO. CAP.	0.01uF 10uF	50V 50V	F	50V100M5X11TR5	K46170021			
-	CHIP CAP.	10ur 0. 01uF	50V 50V	В	GRM40B103M50PT	K40170021 K22170817			
	CHIP CAP.	0.010	50V	F	GRM40F473Z50PT	K22170017			
	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008			
	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817			
	CHIP CAP.	0.0111 0.047uF	50V	F	GRM40F473Z50PT	K22171008			
Č 1148		0.01uF	50V	-	50F2Z103MTP	K56170057			
	CHIP CAP.	33pF	50V	СН	GRM40CH330J50PT	K22170223			
	CHIP CAP.	33pF	50V	СН	GRM40CH330J50PT	K22170223			
	AL. ELECTRO. CAP.	1uF	50V		50V010M5X11TR5	K46170017			

Main Unit-

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	lot	ADDR.
C 1152	AL. ELECTRO. CAP.	1uF	50V		50V010M5X11TR5	K46170017			
C 1153	CHIP CAP.	47pF	50V	Сн	GRM40CH470J50PT	K22170227			
C 1154	AL. ELECTRO. CAP. CHIP CAP. CHIP CAP. CHIP CAP. CERAMIC CAP. AL. ELECTRO. CAP. CAP. AL. ELECTRO. CAP. CHIP CAP. CERAMIC CAP. CHIP CAP. CERAMIC CAP. CHIP CAP. CHIP CAP. CHIP CAP. CHIP CAP. CHIP CAP. CHIP CAP. CHIP CAP. CHIP CAP. CHIP CAP.	150pF	50V	СН	GRM40CH151J50PT	K22170239			
C 1155	CHIP CAP.	47pF	50V	СН	GRM40CH470J50PT	K22170227			
C 1156	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 1157	AL. ELECTRO. CAP.	1uF	50V		50V010M5X11TR5	K46170017			
C 1158	CAP.	0.0047uF	50V		50F2S472MTP	K56170005			
C 1159	AL. ELECTRO. CAP.	10uF	50V		50V100M5X11TR5	K46170021			
C 1160	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008			
C 1161	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 1162	AL. ELECTRO. CAP.	10uF	50V		50V100M5X11TR5	K46170021			
C 1163	CHIP CAP.	0.01uF	50V	В	GRM40B103M50PT	K22170817			
C 1164	CERAMIC CAP.	220pF	50V	SL	DD107-979SL221J50	K26171037			
C 1165	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235			
C 1166	CHIP CAP.	0.01uF	50V	В	GRM40B103M50PT	K22170817			
C 1167	AL. ELECTRO. CAP.	luF	50V		50V010M5X11TR5	K46170017			
C 1168	CHIP CAP.	15pF	500	CH	GRM40CH150J50PT	K22170215			
C 1169	CHIP CAP. AL. ELECTRO. CAP.	lbpF	500	СН	GRM40CH150J50PT	K22170215			
0 1173	AL. ELECTRO. CAP. CHIP CAP. AL. ELECTRO. CAP. CHIP CAP. AL. ELECTRO. CAP. CHIP CAP. AL. ELECTRO. CAP. CERAMIC CAP. AL. ELECTRO. CAP.		507	011	50V010M5X11TR5	K46170017			
0 1174	CHIP CAP.		500	СН	GRM4UCH12UJ5UPT	K22170213			
0 1175	AL. ELECTRU. CAP.		507	n	50VIUUM5XIITK5	K46170021			
	CHIP CAP.		500	В	GKM4UB103M50PT	K22170817			
	AL. ELECIKU. CAP.		500	n		K46170017			
0 1170	UNIP CAP.		50V	В	GKM4UBIU3M5UPT	K22170817			
0 1179	AL. BLEUIRU. CAP.		101	P	KEZ-10V471M	K40129049			
0 1100	AL ELECTRO CAR	0.010F	5UV	r	DD106-979F103Z50	K20170057			
0 1101	AL. ELECTRO. CAP.	4/0ur 1,,F	10V 50V		10V471M8X11TR5 50V010M5X11TR5	K46100006			
C 1102	AL. ELECTRO. CAP. CAP. CAP. CAP. AL. ELECTRO. CAP.	1ur 0 004711F	50V 50V		501010H5A111R5 50F9C479MTD	K56170017			
C 1181	CAD		50V			K50170005			
C 1185		0.10F	50V		50F20104MTD	K56170013			
C 1186		1000.10	25V		RE-25V102M	KA0140005			
C 1187	AL. ELECTRO. CAP.	1000ul 1uF	50V		50V010M5X11TR5	K40149003 K46170017			
	AL. ELECTRO. CAP.	luF	50V		50V010M5X11TR5	K46170017			
	CERAMIC CAP.	0. 001uF	50V	В	UP050B102K-A-B	K28179001			
	AL. ELECTRO. CAP.	luF	50V	D	50V010M5X11TR5	K46170017			
	CHIP CAP.	390pF	50V	Сн	GRM40CH391J50PT	K22170249			
	CERAMIC CAP.	100pF	50V	SL		K26171029			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CHIP CAP.	0. 047uF	50V	F	GRM40F473Z50PT	K22171008			
	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008			
	AL. ELECTRO. CAP.	0.47uF	50V	-	50VR47M5X11TR5	K46170016			
	CHIP CAP.	0.01uF	50V	В	GRM40B103M50PT	K22170817			
C 1198	CHIP CAP.	0.01uF	50V	В	GRM40B103M50PT	K22170817			
C 1199	CHIP CAP.	0.01uF	50V	В	GRM40B103M50PT	K22170817			
C 1200	CHIP CAP.	0. 047uF	50V	F	GRM40F473Z50PT	K22171008			
C 1201	CERAMIC CAP.	0.047uF	50V	F	DD306-979F473Z50	K26170726			
	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008			
	AL. ELECTRO. CAP.	47uF	25V		25V470M5X11TR5	K46140004			
C 1205	AL. ELECTRO. CAP.	0. 1uF	50V		50VR10M5X11TR5	K46170013			

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	lot	ADDR.
C 1206	CHIP CAP.	0. 047uF	50V	F	GRM40F473Z50PT	K22171008			
C 1207	CERAMIC CAP.	100pF	50V	SL	DD105-979SL101J50	K26171029			
C 1209	CHIP CAP.	6pF	50V	CH	GRM40CH060D50PT	K22170207			
C 1211	CERAMIC CAP. CHIP CAP. CHIP CAP. CHIP CAP. CHIP CAP. CHIP CAP. CERAMIC CAP. CERAMIC CAP. CHIP CAP. CERAMIC CAP. CERAMIC CAP. AL. ELECTRO. CAP. AL. ELECTRO. CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817			
C 1212	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817			
C 1213	CHIP CAP.		500	B	GRM40B103M50PT GRM40B103M50PT UP050F104Z-A-B UP050F104Z-A-B GRM40B103M50PT	K22170817			
0 1215	CHIP CAP.		5UV	B	UDOFORIO47 A D	K22170817			
C 1210	CERAMIC CAP.	0.1ur 0.1.r	50V	F F		K28179003 K28179003			
C 1217			50V	r R	GRM40B103M50PT	K20179003 K22170817			
C 1210	CERAMIC CAP	0.01uF	50V	F		K26170657			
C 1220	AL, ELECTRO, CAP.	0.22uF	50V		50VR22M5X11TR5	K46170014			
C 1221	AL. ELECTRO. CAP.	0. 1uF	50V			VAC170019			
C 1222	CHIP CAP.	0.01uF	50V	В	GRM40B103M50PT	K22170817			
C 1223	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817			
C 1224	AL. ELECTRO. CAP.	1uF	50V		50V010M5X11TR5	K46170017			
C 1225	AL. ELECTRO. CAP.	luF	50V		50V010M5X11TR5	K46170017			
C 1226	AL. ELECTRO. CAP.	10uF	50V		50V100M5X11TR5	K46170021			
C 1227	AL. ELECTRO. CAP. CHIP CAP. AL. ELECTRO. CAP. AL. ELECTRO. CAP. AL. ELECTRO. CAP. CERAMIC CAP. AL. ELECTRO. CAP.	0.047uF	50V	F	DD306-979F473Z50	K26170726			
C 1228	AL. ELECTRO. CAP.	0. 1uF	50V		50VR10M5X11TR5	K46170013			
0 1223		0. Iur	001	1.	01000F1042 A D	K20119000			
	CERAMIC CAP.			F		K28179003			
	CERAMIC CAP.			F	UP050F104Z-A-B	K28179003			
0 1232	CERAMIC CAP.	0. 1uF	50V	F	UP050F104Z-A-B	K28179003			
0 1200	CERAMIC CAP.	$0.1 \mathrm{uF}$		F	UP050F104Z-A-B	K28179003			
0 1234	CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. AL. ELECTRO. CAP.	0.1ur 0.1.1F	50V 50V	F F	UP050F104Z-A-B UP050F104Z-A-B UP050F104Z-A-B	K28179003 K28179003			
C 1235	CERAMIC CAP	0.10r 0.10r	50V 50V	r F		K28179003			
C 1230	AL ELECTRO CAP	100F		ľ	50V100M5X11TR5	K46170021			
C 1238	CHIP CAP.	820nF	50V		GRM40B821M50PT				
C 1239	CHIP CAP. CHIP CAP.	680pF	50V		GRM40B681M50PT				
C 1240	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817			
	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817			
	CHIP CAP.	0.01uF	50V	В	GRM40B103M50PT	K22170817			
	CHIP CAP.	0.01uF	50V	В	GRM40B103M50PT	K22170817			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CHIP CAP.	33pF	50V	СН	GRM40CH330J50PT	K22170223			
	CERAMIC CAP.	0.047uF	50V	F	DD306-979F473Z50	K26170726		1-	
	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008		3-	
	AL. ELECTRO. CAP.	4.7uF	50V		50V4R7M5X11TR5	K46170020			
	CHIP CAP.	56pF	50V	CH	GRM40CH560J50PT	K22170229			
	CHIP CAP.	12pF	50V	CH	GRM40CH120J50PT	K22170213			
	CHIP CAP. CHIP CAP.	330pF	50V	CH	GRM40CH331J50PT	K22170247		0	
	CERAMIC CAP.	56pF	50V 50V	CH SL	GRM42-6CH560J50PT	K22171229		-2	
	CHIP CAP.	12pF 330pF	50V 50V	CH	DD104SL120J50 GRM40CH331J50PT	K00175120 K22170247		-2 -2	
	CHIP CAP.	0.047uF	25V	B	GRM42-6B473M25PT	K22170247 K22141808		-2 -2	
	CHIP CAP.	$0.047 \mathrm{uF}$	25V 25V	B	GRM42-6B473M25PT	K22141808		1-	
	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22141008		1 3-	
	CHIP CAP.	0.047uF	25V	B	GRM42-6B473M25PT	K22141808		1-	
	CHIP CAP.	0.047uF	50V	F	GRM40F473Z50PT	K22171008		3-	
								-	

Main Unit

REF. MFGR'S DESIG	VALUE			DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
	0. 047uF 0. 047uF 0. 047uF 0. 047uF 0. 047uF 0. 047uF 0. 047uF 0. 047uF	25V 50V 25V 50V 25V 50V 25V 25V 50V	B F B F B F F F	GRM42-6B473M25PT GRM40F473Z50PT GRM42-6B473M25PT GRM40F473Z50PT GRM42-6B473M25PT GRM40F473Z50PT GRM40F473Z50PT GRM40F473Z50PT	K22141808 K22171008 K22141808 K22171008 K22141808 K22171008 K22171008 K22141808 K22171008		1- 3- 1- 3- 1- 3- 1- 5-	
CF1001 CERAMIC FILTER CF1002 CERAMIC FILTER CF1003 CERAMIC FILTER				CFW455H CFW455I CFJ455K15	H3900431 H3900432 H3900398			
CF1003 CERAMIC FILTER D 1001 DIODE D 1002 DIODE D 1003 DIODE D 1004 DIODE D 1005 SURGE ABSORBER D 1006 DIODE D 1007 DIODE D 1009 DIODE D 1009 DIODE D 1010 DIODE D 1010 DIODE D 1011 DIODE D 1012 DIODE D 1013 DIODE D 1015 DIODE D 1015 DIODE D 1015 DIODE D 1016 DIODE D 1017 DIODE D 1018 DIODE D 1020 DIODE D 1020 DIODE D 1020 DIODE D 1022 DIODE D 1023 DIODE D 1024 DIODE D 1026 DIODE D 1027 DIODE D 1028 DIODE D 1028 DIODE D 1029 DIODE D 1030 DIODE D 1031 DIODE D 1033 DIODE D 1033 DIODE D 1035 DIODE D 1035 DIODE D 1036 DIODE D 1037 DIODE D 1038 DIODE D 1038 DIODE D 1039 DIODE				1SS270TJ 1SS270TJ 1SS198TJ 1SS198TJ DSP201M-S00B 1SS270TJ 1SV157-T1 1SS83RE 1SS270TJ 1SS270TJ 1SS270TJ 1SS83RE 1SS270TJ 1SS83RE 1SS270TJ 1SV157-T1 1SS83RE 1SV154 1SV154 1SV154 1SV154 1SV154 1SV154 1SS198TJ	$\begin{array}{c} G2060004\\ G2060011\\ G2060011\\ G2060011\\ G2060014\\ G2050007\\ G2060004\\ G2050007\\ G2060004\\ G2050007\\ G2060014\\ G2050007\\ G2060014\\ G2050007\\ G2060014\\ G2050007\\ G2090426\\ G200011\\ G20001\\ G200011\\ G200011\\ G20001\\ G20001\\ G20001\\ G20001\\ G2$			

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	lot	ADDR.
D 1040 D 1042 D 1043 D 1045 D 1046 D 1049 D 1050 D 1050 D 1050 D 1051 D 1051 D 1052 D 1053 D 1054 D 1055 D 1056 D 1057 D 1058 D 1059	DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE				1SS198TJ 1SV157-T1 1SS83RE 1SV157-T1 1SS83RE 1SS270TJ 11ES1 11ES1-TA1B2 11ES1-TA1B2 21DQ04 1SS270TJ	$\begin{array}{c} \text{G2060011} \\ \text{G2050007} \\ \text{G2050007} \\ \text{G2060014} \\ \text{G2050007} \\ \text{G2060004} \\ \text{G2090499} \\ \text{G206009} \\ \text{G2090499} \\ \text{G206009} \\ \text{G2090317} \\ \text{G2060004} \\ \text{G20600004} \\ \text{G20600004} \\ \text{G20600004} \\ \text{G2060004} \\ G20600$		1- 5- 1- 5-	
FH1001	FUSE HOLDER				UF-0033#01	P2000024			
$ \begin{array}{c} J \ 1002 \\ J \ 1003 \\ J \ 1004 \\ J \ 1005 \\ J \ 1006 \\ J \ 1007 \\ J \ 1007 \\ J \ 1007 \\ J \ 1007 \\ J \ 1010 \\ J \ 1011 \\ J \ 1012 \\ J \ 1012 \\ J \ 1012 \\ J \ 1013 \\ J \ 1014 \\ J \ 1015 \\ J \ 1016 \\ J \ 1017 \\ J \ 1016 \\ J \ 1017 \\ J \ 1018 \\ J \ 1019 \\ J \ 1022 \\ J \ 1022 \\ J \ 1022 \\ J \ 1022 \\ J \ 1023 \\ \end{array} $	CONNECTOR CONNECTOR				TMP-J01X-V6 TMP-J01X-V6 TMP-J01X-A2 S-Q2723#50 JPJ2545-01-510 SG8035#01 TMP-J01X-A2 LGP6531-0400 SC25-03WS SC25-03WS SC25-03WS SC25-03WS SC25-05WS SC25-05WS SC25-05WS SC25-05WS SC25-05WS SC25-05WS SC25-05WS SC25-05WS SC25-05WS SC25-05WS SC25-05WS SC25-05WS SC25-05WS SC25-02WS SC25-04WS HSJ0789-01-020 HSJ1022-01-110 SC25-04WS SBRK 2S-1	P1090210 P1090210 P1090255 P1090792 P1090633 P1090350 P1090350 P1090255 P1090771 P0090622 P0090622 P0090624 P0090624 P0090624 P0090622 P0090624 P0090624 P0090622 P0090624 P0090623 P1090806 P1090806 P1090806 P1090812		1- 3- 1- 3- 5-	
L 1001 L 1002 L 1003 L 1004 L 1005	M. RFC M. RFC M. RFC COIL	10uH 1mH 4.7uH			LAPO2TA100K LALO3TA102K LAPO2TA4R7K 5.5T4.0D0.6UEW R 3.5T4.0D0.6UEW R	L1790058 L1790119 L1790054 L0021826A L0021824A		0	

Main Unit------

REF.	MFGR'S DESIG	VALUE WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
L 1006	M. RFC	0. 27uH		LAP02TAR27K	L1790039			
L 1007		0. 33uH		LAPO2TAR33K	L1790040			
L 1009		82uH		LAPO2TA820K	L1790069			
L 1010		100uH		LAPO2TA101K	L1790070			
L 1011		82uH		LAPO2TA820K	L1790069			
L 1012		1mH		LALO3TA102K	L1790119			
L 1013		27uH		LAPO2TA270K	L1790063			
L 1014		27uH		LAPO2TA270K	L1790063			
L 1015		33uH		LAPO2TA330K	L1790064			
L 1016		1mH		LALO3TA102K	L1790119			
L 1017		68uH		LAPO2TA680K	L1790068			
L 1018		68uH		LAPO2TA680K	L1790068			
L 1019		1mH		LALO3TA102K	L1790119			
L 1020		27uH		LAPO2TA270K	L1790063			
L 1021 L 1022		27uH		LAPO2TA270K	L1790063			
L 1022 L 1023		5.6uH		LAPO2TA5R6K	L1790055			
L 1023 L 1024		10uH 10uH		LAPO2TA100K LAPO2TA100K	L1790058			
L 1024 L 1025		22uH		LAPO2TA220K	L1790058 L1790062			
L 1025		22uH		LAPO2TA220K	L1790062			
L 1027		33uH		LAPO2TA330K	L1790064			
L 1028		15uH		LAPO2TA150K	L1790060			
L 1020		3. 3uH		LAPO2TA3R3K	L1790052			
L 1030		6. 8uH		LAPO2TA6R8K	L1790056			
L 1031		6. 8uH		LAPO2TA6R8K	L1790056			
L 1032		33uH		LAPO2TA330K	L1790064			
L 1033		12uH		LAP02TA120K	L1790059			
L 1034		12uH		LAP02TA120K	L1790059			
L 1035		2. 7uH		LAPO2TA2R7K	L1790051			
L 1036		5.6uH		LAPO2TA5R6K	L1790055			
L 1037	M. RFC	5.6uH		LAPO2TA5R6K	L1790055			
L 1038	M. RFC	10uH		LAPO2TA100K	L1790058			
L 1039	M. RFC	10uH		LAPO2TA100K	L1790058			
L 1040		1.8uH		LAPO2TA1R8K	L1790049			
L 1041		1uH		LAPO2TA1ROK	L1790046			
L 1042		1.8uH		LAPO2TA1R8K	L1790049			
L 1043		4.7uH		LAPO2TA4R7K	L1790054			
L 1044		4. 7uH		LAPO2TA4R7K	L1790054			
L 1045		1uH		LAPO2TA1ROK	L1790046			
L 1046	-	1.5uH		LAPO2TA1R5K	L1790048			
L 1047		1.5uH		LAPO2TA1R5K	L1790048			
L 1048 L 1049		2. 7uH		LAPO2TA2R7K	L1790051			
L 1049 L 1050		2. 7uH 0. 47uH		LAPO2TA2R7K LAPO2TAR47K	L1790051			
L 1050 L 1051	-	0. 47 un 0. 82 uH		LAPO2TAR82K	L1790042 L1790045			
L 1051		0. 82uH		LAPO2TAR82K	L1790045			
L 1052 L 1053		100uH		LAPO2TA101K	L1790045			
L 1054		100ull 10uH		LAPO2TA100K	L1790058			
- 1001				an gaing on	21100000			
P 1001	CONNECTOR			3022-04B	P0090523			
	CONNECTOR			3022-04B	P0090523			

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT ADDR.
P 1003	CONNECTOR				06JL-BT-E	P1090800		
Q 1040	CONNECTOR TRANSISTOR TRANSISTOR TRANSISTOR FET FET TRANSISTOR TRANSISTOR TRANSISTOR FET FET FET FET FET FET FET FET FET FET	VALUE	WV	TOL.	DTC144EK T97	P1090800 G3070048 G327127G G3070033 G4801317B G4801317B G320530 G327127G G326207B G3801250 G3801250 G3801250 G3801250 G1090988 G3701257D G4801317B G4801317B G4801317B G4801317B G4801317B G4801317B G4801317B G4801317B G4801317B G327127G G1090283 G1091140 G3304584B G3070033 G1090395 G1090988 G1090985 G1090988 G3070033 G3070033 G3070033 G3070033 G3070033 G304584B G3070033 G3070033 G304584B G3070033 G3070033 G304584B G3070033 G3070033 G304584B G3070033 G3070033 G304584B G3070033 G304584B G3070033 G304584B G3070033 G304584B G3070033 G304584B G3070033 G304584B G3070033 G304584B G3070033 G304584B G3070033		$\begin{array}{c} b2\\ b1\\ b2\\ b1\\ b1\\ c1\\ a1\\ a3\\ c2\\ a2\\ a2\\ a2\\ a2\\ a2\\ a2\\ a2\\ a2\\ a2\\ a$
Q 1041 Q 1044 Q 1046 Q 1047 Q 1048	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				DTC144EK T97 DTC144EK T97 DTC144EK T97 DTC144EK T97 DTA124XK T97 DTA124XK T97	G3070033 G3070033 G3070033 G3070033 G3070048 G3070048		d4 d2 d3 c4 a1 d3
Q 1050 Q 1051 Q 1053 Q 1053 Q 1054 Q 1055	TRANSISTOR TRANSISTOR FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				DTC144EK T97 DTC144EK T97 2SJ125D-T12-1D DTC144EK T97 DTC144EK T97 DTC144EK T97 BA1A4P DTC144EK T97	G3070033 G3070033 G3701257D G3070033 G3070033 G3070033 G3090079 G3070033		d3 c4 c4 1- d3 3- b1 c4 1- 3- b1

Main Unit————

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
R 1001	MFGR'S DESIG CARBON FILM RES. CHIP RES. C	1M	1/6W	5%	RD16TPJ105	J07225105			
R 1002	CHIP RES.	4.7K	1/10	₩ 5%	RMC1/10T 472J	J24205472			
R 1003	CHIP RES.	4.7K	1/10	₩ 5%	RMC1/10T 472J	J24205472			
R 1005	CHIP RES.	1K	1/10	₩ 5%	RMC1/10T 102J	J24205102			
R 1009	CHIP RES.	47K	1/10	N 5%	RMC1/10T 473J	J24205473			
K IUIU	CHIP RES.	470K	1/10	₩ 5%	RMC1/10T 474J	J24205474			
R 1013	CHIP RES.		1/10	N 5%	RMC1/IOT 102J	J24205102			
R 1014	CHIP RES.	10K 47V	1/10	N 576	RMC1/IUT IU3J	J24205103			
R 1015	CHIP REG.	41N 22V	1/10	N 0%	RMC1/101 4/3J	JZ4205473			
R 1010	CHIP RES	470	1/10	n 5% N 5%	RMC1/101 2233	J24205223			
R 1018	CHIP RES.	22K	1/10	N 5%	RMC1/101 4715	124205471			
R 1019	CHIP RES.	150	$1/10^{1}$	N 5%	RMC1/10T 151.1	J24205151			
R 1020	CHIP RES.	100	1/10	N 5%	RMC1/10T 101J	J24205101			
R 1021	CHIP RES.	68	1/10	N 5%	RMC1/10T 680J	J24205680			
R 1022	CHIP RES.	330	1/10	N 5%	RMC1/10T 331J	J24205331			
R 1023	CHIP RES.	33K	1/10	N 5%	RMC1/10T 333J	J24205333			
R 1024	CHIP RES.	100K	1/10	N 5%	RMC1/10T 104J	J24205104			
R 1025	CHIP RES.	150	1/10	V 5%	RMC1/10T 151J	J24205151			
R 1026	CHIP RES.	100	1/10	₩ 5%	RMC1/10T 101J	J24205101			
R 1027	CHIP RES.	10K	1/10	V 5%	RMC1/10T 103J	J24205103			
R 1028	CHIP RES.	100	1/10	₩ 5%	RMC1/10T 101J	J24205101			
R 1029	CHIP RES.	10K	1/10	N 5%	RMC1/10T 103J	J24205103			
R 1030	CHIP KES.	4.7K	1/10	N 5%	RMC1/IUT 472J	J24205472			
R 1031 D 1022	CHIP RES. CHIP RES. CHIP RES.	4.7 10V	$\frac{1}{10}$	N 5%	RMC1/10T 4R7J	J24205479			
R 1033	CHIP PFS	101	1/10	4 5%	DMC1/101 1000	124205105			
R 1033	CHIP RES. CHIP RES. CARBON FILM RES. CHIP RES. CHIP RES. CARBON FILM RES.	47 150	1/10	n 5% N 5%	RMC1/101 4700	J24205470			
R 1035	CHIP RES.	100K	1/10	N 5%	RMC1/101 1013	124205151			
R 1036	CARBON FILM RES.	56	1/4W	5%	RD2511.1560T	.106245560			
R 1037	CHIP RES.	100K	1/10	N 5%	RMC1/10T 104J	J24205104			
R 1039	CHIP RES.	22K	1/10	N 5%	RMC1/10T 223J	J24205223			
R 1040	CARBON FILM RES.	33	1/6W	5%	RD16TPJ330	J07225330			
r 1041	ULLE RES.	470	1/10	N 5%	RMC1/10T 471J	J24205471			
	CHIP RES.	680	1/10		RMC1/10T 681J	J24205681			
	CHIP RES.	15K	1/10		RMC1/10T 153J	J24205153			
	CHIP RES.	15K	1/10		RMC1/10T 153J	J24205153			
	CARBON FILM RES.	100	1/6W		RD16TPJ101	J07225101			
	CHIP RES.	33K	1/10		RMC1/10T 333J	J24205333			
	CHIP RES. CHIP RES.	270 270	1/10		RMC1/10T 271J	J24205271			
	CHIP RES.	270 680	1/10 1/10		RMC1/10T 271J RMC1/10T 681J	J24205271			
	CHIP RES.	47K	1/10		RMC1/10T 473J	J24205681 J24205473			
	CHIP RES.	470	1/10		RMC1/10T 471J	J24205475			
	CHIP RES.	10K	1/10		RMC1/10T 103J	J24205103			
	CARBON FILM RES.	560K	1/6W		RD16TPJ564	J07225564			
	CARBON FILM RES.	330	1/2W		RD12TJ331	J01275331			
	CHIP RES.	220	1/10	V 5%	RMC1/10T 221J	J24205221			
	CARBON FILM RES.	100	1/6W		RD16TPJ101	J07225101			
	CHIP RES.	390			RMC1/10T 391J	J24205391			
к 1059	CHIP RES.	4.7K	1/10	V 5%	RMC1/10T 472J	J24205472			

-Main Unit

	MFGR'S DESIG						LOT	ADDR.
R 1060	CARBON FILM RES. CHIP RES. CARBON FILM RES. CARBON FILM RES. CARBON FILM RES. CARBON FILM RES. CHIP RES. CHI	100	1/6W	5%	RD16TPJ101	J07225101	 	
R 1001	CARBON FILM RES	4. IA 33	1/10 1/6W	n 0% 5%	RD16TP.I330	.107225330		
R 1063	CHIP RES.	100	1/10	W 5%	RMC1/10T 101J	J24205101		
R 1064	CARBON FILM RES.	100K	1/6W	5%	RD16TPJ104	J07225104		
R 1067	CHIP RES.	100	1/10	W 5%	RMC1/10T 101J	J24205101		
R 1068	CARBON FILM RES.	100K	1/6W	5%	RD16TPJ104	J07225104		
R 1069	CHIP RES.	4.7K	1/10	W 5%	RMC1/10T 472J	J24205472		
R 1070	CHIP RES.	4.7K	1/10	W 5%	RMC1/IUT 472J	J24205472		
K 1071 P 1072	CARBON FILM RES.	ろろ 100	1/bW	5% ₩ ⊑%	KUIDIPJJJJU DMC1/10T 101 I	JU7225330		
R 1072	CHIP RES.	100 150K	1/10	N 0% N 5%	RMC1/101 1013	124205101		
R 1073	CARBON FILM RES	100K	1/6W	5%	RD16TP.1104	.107225104		
R 1075	CHIP RES.	100M	1/10	W 5%	RMC1/10T 103J	J24205103		
R 1076	CARBON FILM RES.	100K	1/6W	5%	RD16TPJ104	J07225104		
R 1077	CHIP RES.	100	1/10	W 5%	RMC1/10T 101J	J24205101		
R 1078	CHIP RES.	100	1/10	W 5%	RMC1/10T 101J	J24205101		
R 1079	CHIP RES.	100K	1/10	W 5%	RMC1/10T 104J	J24205104		
R 1080	CHIP RES.	47	1/10	W 5%	RMC1/IUT 470J	J24205470		
K 1082	CHIP KES.	15K 15V	1/10	W 5%	RMC1/IUT 153J	JZ4205153		
R 1083	CHIP KES.	15N 220	1/1U 1/GW	W D% 5%	RMUT/ IUT 1000 RMUT/ IUT 1000	JZ4200100 107225221		
R 1004	CARBON FILM RES	100	1/6W	5%	RD16TP.1101	.107225101		
R 1086	CHIP RES.	100 100K	1/10	W 5%	RMC1/10T 104.1	J24205104		
R 1087	CHIP RES.	100K	1/10	W 5%	RMC1/10T 104J	J24205104		
R 1088	CHIP RES.	10K	1/10	W 5%	RMC1/10T 103J	J24205103		
R 1089	CHIP RES.	15K	1/10	W 5%	RMC1/10T 153J	J24205153		
R 1090	CHIP RES.	10K	1/10	W 5%	RMC1/10T 103J	J24205103		
R 1091	CHIP RES.	1.5M	1/10	W 5%	RMC1/10T 155J	J24205155		
R 1092	CHIP KES.		1/1U 1/GW	₩ 5% ⊑%		JZ4205082		
R 1093	CARDON FILM RES.	100K 1 7K	1/0W	076 W 58	RMC1/10T 472.I	124205472		
R 1094	CHIP RES. CHIP RES.	4.7K	1/10	W 5%	RMC1/10T 472J	J24205472		
	CHIP RES.	100		W 5%	RMC1/10T 101J	J24205101		
	CHIP RES.	100		W 5%	RMC1/10T 101J	J24205101		
R 1098	CARBON FILM RES.	33	1/6	5%	RD16TPJ330	J07225330		
	CHIP RES.	100		W 5%	RMC1/10T 101J	J24205101		
	CHIP RES.	1K		W 5%	RMC1/10T 102J	J24205102		
	CHIP RES.	100		W 5%	RMC1/10T 101J	J24205101		
	CHIP RES. CHIP RES.	22K 100		₩ 5% ₩ 5%	RMC1/10T 223J RMC1/10T 101J	J24205223 J24205101		
	CHIP RES.	150		W 5%		J24205151		
	CHIP RES.	27K		W 5%		J24205273		
	CHIP RES.	100		W 5%		J24205101		
	CHIP RES.	150		W 5%	RMC1/10T 151J	J24205151		
	CHIP RES.	47K		W 5%	RMC1/10T 473J	J24205473		
	CHIP RES.	100K		W 5%	RMC1/10T 104J	J24205104		
	CHIP RES.	27K		W 5%	RMC1/10T 273J	J24205273		
	CHIP RES.	4.7K		W 5%	RMC1/10T 472J	J24205472		
	CARBON FILM RES.	390 33	1/2W 1/6W		RD12TJ391 RD16TPJ330	J01275391 J07225330		
n 1114	OUTDON LIPU UPO.	00	1/0/	0/0	00001010000	001220000		

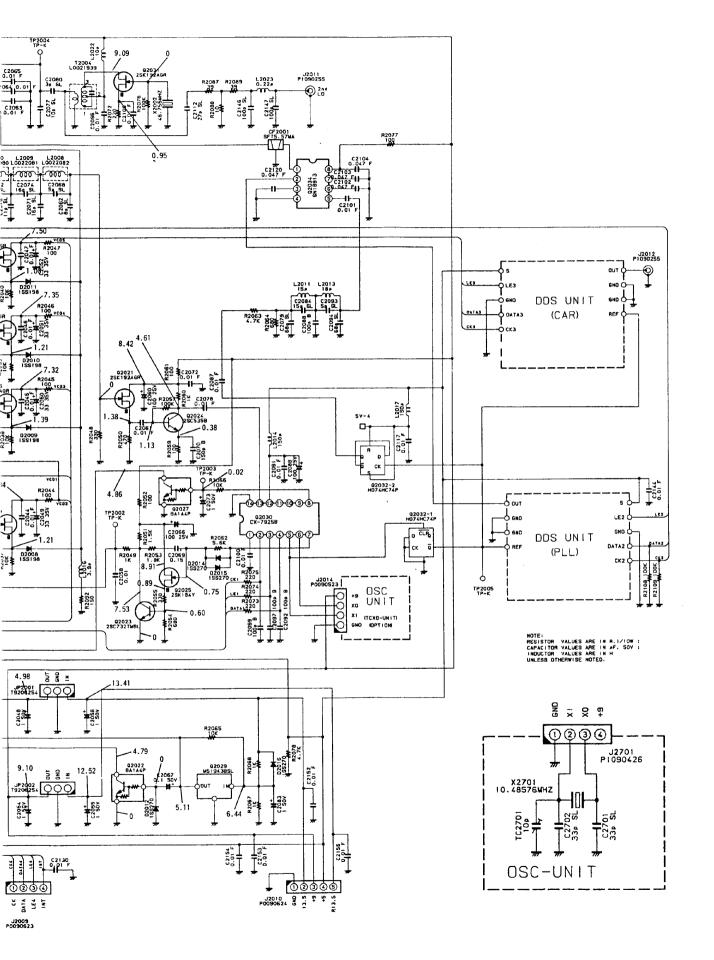
Main Unit-

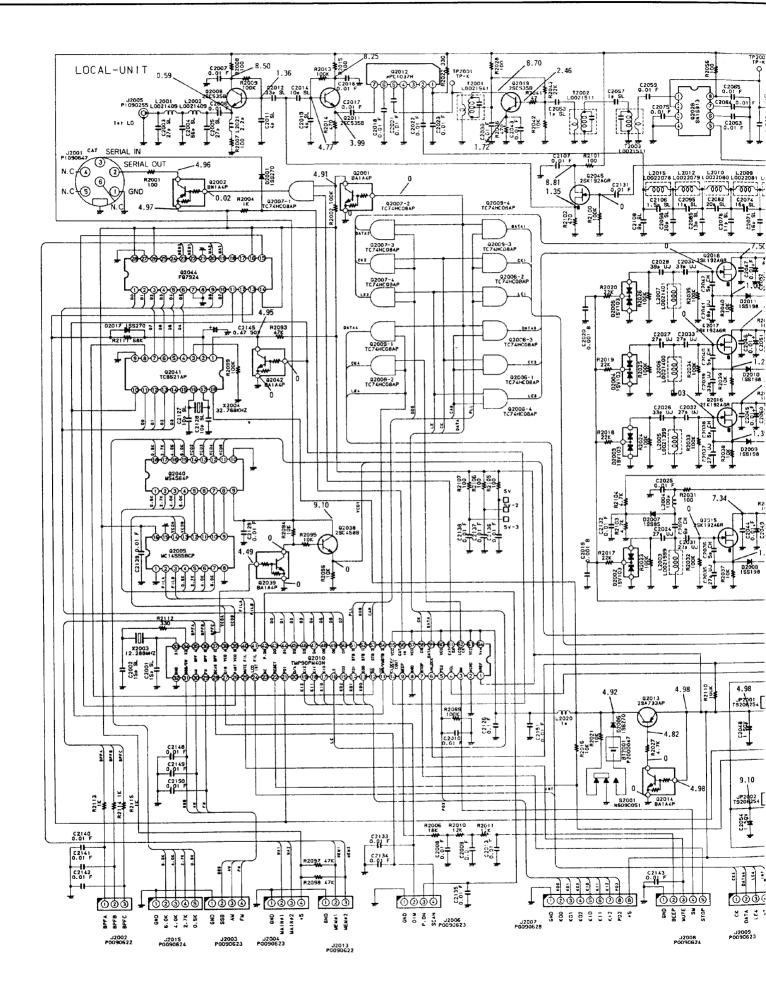
REF.	MFGR'S DESIG CHIP RES. CHIP RES. CHIP RES. CHIP RES. CARBON FILM RES. CHIP RES. CHIP RES. CHIP RES. CHIP RES. CHIP RES. CARBON FILM RES. CHIP RES. CARBON FILM RES. CARBON FILM RES. CARBON FILM RES. CARBON FILM RES. CHIP RES.	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	lot	ADDR.
R 1115	CHIP RES.	4.7K	1/10	₹ 5%	RMC1/10T 472J	J24205472			
R 1116	CHIP RES.	4.7K	1/10	1 5%	RMC1/10T 472J	J24205472			
R 1117	CHIP RES.	100	1/10	5%	RMC1/10T 101J	J24205101			
R 1118	CHIP RES.	100	1/10	1 5%	RMC1/10T 101J	J24205101			
R 1119	CARBON FILM RES.	33	1/6W	5%	RD16TPJ330	J07225330			
R 1120	CHIP RES.	100	1/10	5%	RMC1/10T 101J	J24205101			
R 1122	CHIP RES.	100	1/10	5%	RMC1/10T 101J	J24205101			
R 1123	CHIP RES.	470	1/10	5%	RMC1/10T 471J	J24205471			
K 1125	CHIP RES.	IUK	1/10	¥5%	RMCI/IUT IU3J	J24205103			
π 1127 D 1120	CADDON FILM DEC	4.7K	1/101 1/CW	15% EV	KMUI/IUT 472J	JZ4205472			
R 1120	CARDON FILM RES.	4. / N 270	1/01	076 1 59	NUIDIFJ4/2 DMC1/10T 271 I	JU7225472			
R 1120	CHIP RES	210 170	1/10	10% 15%	RMC1/101 271J	J24205271 127205771			
R 1130	CHIP RES	100%	1/10	15%	RMC1/101 4715	124205471			
R 1132	CARBON FILM RES.	33	1/6W	5%	RD16TP.I330	.107225330			
R 1133	CHIP RES.	100	1/10	1 5%	RMC1/10T 101.J	J24205101			
R 1134	CARBON FILM RES.	100	1/6W	5%	RD16TPJ101	J07225101			
R 1135	CARBON FILM RES.	100	1/6W	5%	RD16TPJ101	J07225101			
R 1136	CHIP RES.	100K	1/10	5%	RMC1/10T 104J	J24205104			
R 1137	CHIP RES.	100	1/10	5%	RMC1/10T 101J	J24205101			
R 1138	CHIP RES.	12K	1/10	1 5%	RMC1/10T 123J	J24205123			
R 1139	CHIP RES.	12K	1/10	5%	RMC1/10T 123J	J24205123			
R 1140	CHIP RES.	100K	1/10	5%	RMC1/10T 104J	J24205104			
K 1141	CHIP RES.	1M	1/10	5%	RMC1/10T 105J	J24205105			
K 1142	CHIP RES.		1/10	1 5%	RMC1/IUT 103J	J24205103			
K 1143	CHIP RES.	100K	1/10	1 5%	RMCI/IUT IU4J	J24205104			
D 1144	CHIP RES.	100K	1/10	1 076 1 59	KMU1/IUI 104J DMC1/107 104 I	J24205104			
R 1140	CARRON FILM RES	100	1/61	1 0/0 5%	RN16TP 1101	JZ4ZUD1U4 I07225101			
R 1140	CHIP RES	100	1/10	15%	RMC1/10T 104.1	124205104			
R 1149	CARBON FILM RES	33	1/6W	5%	RD16TP.1330	.107225330			
R 1150	CHIP RES.	100	1/10	V 5%	RMC1/10T 101.I	.124205101			
R 1151	CHIP RES.	100 10K	1/10	V 5%	RMC1/10T 103J	J24205103			
R 1152	CHIP RES.	1K	1/10	V 5%	RMC1/10T 102J	J24205102			
	CHIP RES.	100K	1/10	V 5%	RMC1/10T 104J	J24205104			
R 1155	CHIP RES.	220K	1/10	V 5%	RMC1/10T 224J	J24205224			
	CHIP RES.	100K	1/10	₹ 5%	RMC1/10T 104J	J24205104			
R 1157			1/10	V 5%	RMC1/10T 102J	J24205102			
R 1158	CARBON FILM RES.	33	1/6W			J07225330			
K 1159	CHIP RES.	100	1/10			J24205101			
		2.2K	1/10			J24205222			
	CHIP RES.		1/10			J24205103			
	CARBON FILM RES. CARBON FILM RES.	47K 220	1/6W 1/6W			J07225473			
	CARBON FILM RES.	220 1	1/6W		RD16TPJ221 RD16TPJ010	J07225221 J07225010			
	CARBON FILM RES.	10K	1/6W			J07225103			
	CARBON FILM RES.	6.8K	1/6W		RD16TPJ682	J07225682			
	CARBON FILM RES.	4. 7	1/6W			J07225479			
	CARBON FILM RES.	3. 3K	1/6W			J07225332			
	METAL FILM RES.	33	1W		ERG-1SJ330	J22305330			
	CHIP RES.	220		₹ 5%		J24205221			

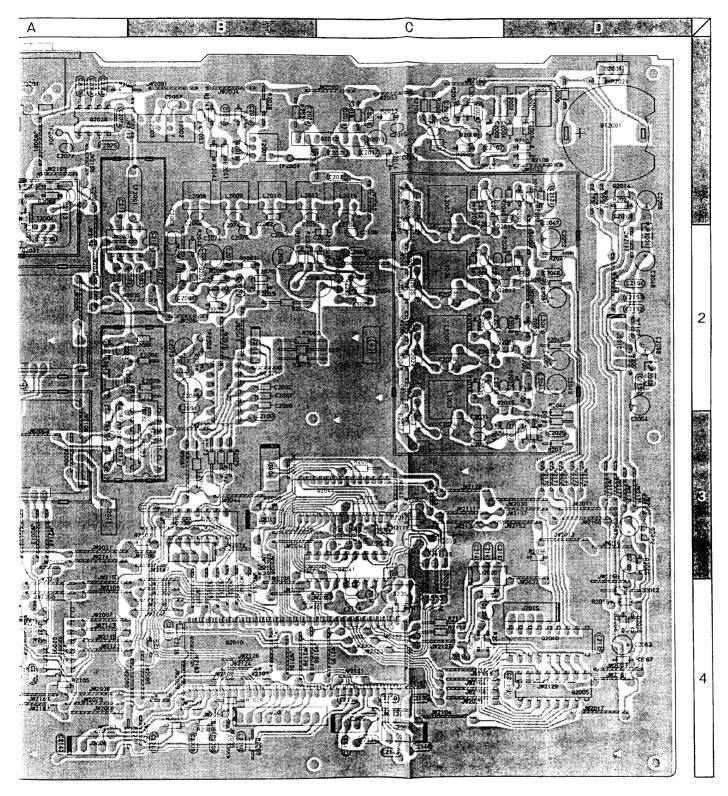
REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
R 1171 R 1172 R 1173 R 1174 R 1174 R 1174 R 1175 R 1176 R 1177 R 1179 R 1182 R 1183 R 1189 R 1190 R 1191 R 1192 R 1193 R 1194 R 1195 R 1196 R 1197 R 1198 R 1197 R 1198 R 1199 R 1200 R 1201 R 1202 R 1203 R 1204 R 1205 R 1206 R 1207 R 1208 R 1209 R 1211 R 1212 R 1213 R 1214 R 1214	CHIP RES. CHIP RES. CHIP RES. CARBON FILM RES. CHIP RE	100K 100 2. 2K 10 10 8. 2K 100K 22 10K 10K 10K 10K 10K 10K 10K 100K 10	wv 1/100 1/101 1/101 1/101 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/101 1/102 <		DESCRIPTION RMC1/10T 104J RMC1/10T 101J RMC1/10T 222J RD16PJ100 RD16TPJ100 RD16TPJ100 RD16TPJ100 RD16TPJ100 RD16TPJ103 RD16TPJ103 RMC1/10T 105J RMC1/10T 104J RMC1/10T 103J <	TAESO P/N J24205104 J24205101 J24205222 J01225100 J07225100 J07225100 J07225104 J22335220 J07225103 J07225103 J07225103 J24205105 J24205104 J24205104 J24205104 J24205104 J24205104 J24205103 J24205104 J24205102 J24205104 J24205104 J07225105 J24205104 J07225105 J24205104 J07225105 J24205104 J07225105 J24205103 J24205103 J24205103 J24205103 <td< td=""><td>Y DRO.</td><td>LOT 1- 5- 1- 5- 1-</td><td></td></td<>	Y DRO.	LOT 1- 5- 1- 5- 1-	
	CHIP RES. BLOCK RES.	3.9K	1/101	¥ 076	RMC1/10T 392J EXB-P88473	J24205392 J40900030		5-	
RL1001 RL1002 RL1003 RL1003	RELAY RELAY		DC12V DC12V DC 8V DC12V	 	AG4013 AG4013 UFM10208 AG4013	M1190090 M1190090 M1190018 M1190090		1- 3-	
S 1001	SLIDE SWITCH				SSS212299	N6090051			
T 1001 T 1002					455K 455K	L0190002 L0190002			

Main Unit-

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
T 1003 T 1004 T 1005 T 1006 T 1007 T 1008 T 1009 T 1010 T 1010 T 1010 T 1011 T 1012 T 1013 T 1014 T 1015 T 1016 T 1017 T 1018 T 1019	COIL COIL COIL COIL COIL COIL COIL COIL				46. 08M R12-M421A 9-1 2D3 TR6X3 4-1 47. 1M R12-M411A 48. 64M R12-J767A 47. 0M 47. 1M R12-M412A 47. 0M 455K 455K 812-7947C 455K 812-7943B 4-1 2001F 455K	L0021939 L0020789A L0022216 L0021225 L0021943 L0021537 L0021223 L0021482A L0021482A L0021476 L0190002 L0190002 L0190002 L0190002 L0190002 L0020420 L0020883 L0190002			
	THERMISTOR THERMISTOR				112502-2 112501-2	G9090035 G9090013			
TP1002 TP1003 TP1004 TP1005 TP1006	TP-K TP-K TP-K				IPS-1136 IPS-1136 IPS-1136 IPS-1136 IPS-1136 IPS-1136	Q5000050 Q5000050 Q5000050 Q5000050 Q5000050 Q5000050		-4 -4	
VR1001 VR1002 VR1004 VR1005	POT. POT.	10K 5K 10K 10K			EVN-DXAAO3B14 EVN-DXAAO3B53 EVN-DXAAO3B14 EVN-DXAAO3B14	J51783103 J51783502 J51783103 J51783103			
XF1001	XTAL				47G10B1	H1102196			
	FUSE CLIP SHIELD CASE SHIELD COVER SHIELD CASE SHIELD COVER SHIELD CASE SHIELD CASE SHIELD CASE SHIELD COVER LEAF SPRING (2pcs) HEATSINK PLATE SHIELD PLATE				UF-0033#01 FNRP 3.0X4.5 WLS-04-0	P2000024 R0102660A R0102670 R0131670A R0131680 R0136980 R0136980A R0136990 R0140031 R0140810B R0146201 R0146201 R0146212 R0146380 S6000031 S6000191 Q9000548		1- 2-	



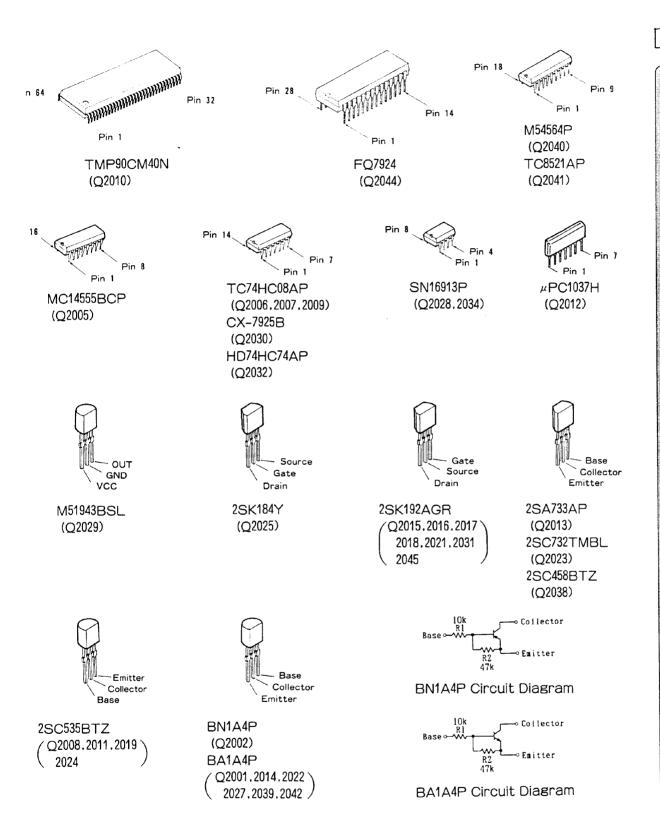


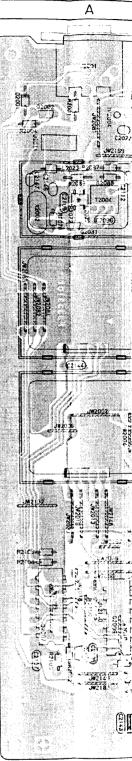


component side (Local Unit)



component side (OSC Unit)





REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
		*** LOCA	L UNI'	[***					
	PCB With PLL-DDS, C					CP4141001			
	Printed Circuit Bo Printed Circuit Bo	oard oard				F3333101 F3333101A		1- 5-	
BT2001	BATTERY HOLDER				CR2032	P2000047			
$ \begin{array}{c} C & 2001 \\ C & 2002 \\ C & 2003 \\ C & 2003 \\ C & 2005 \\ C & 2005 \\ C & 2006 \\ C & 2007 \\ C & 2008 \\ C & 2009 \\ C & 2010 \\ C & 2012 \\ C & 2012 \\ C & 2012 \\ C & 2012 \\ C & 2013 \\ C & 2014 \\ C & 2015 \\ C & 2016 \\ C & 2017 \\ C & 2016 \\ C & 2017 \\ C & 2018 \\ C & 2017 \\ C & 2016 \\ C & 2017 \\ C & 2017 \\ C & 2018 \\ C & 2017 \\ C & 2020 \\ C & 2017 \\ C & 2020 \\ C & 2021 \\ C & 2022 \\ C & 2023 \\ C & 2023 \\ C & 2023 \\ C & 2033 \\ C & 2033 \\ C & 2034 \\ C & 2035 \\ C & 2037 \\ C & 2038 \\ C & 2039 \\ C & 2040 \\ \end{array} $	CERAMIC CAP. CERAMIC CAP. CERAM	15pF 15pF 27pF 56pF 27pF 0.01uF 0.01uF 0.01uF 0.01uF 0.01uF 4pF 33pF 0.01uF 10pF 4pF 0.01uF 0.01uF 0.01uF 0.01uF 0.01uF 0.01uF 0.01uF 0.01uF	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V	SLLLFFFFFSLLFFFBBFF	DD104-979SL150J50 DD104-979SL150J50 UP050SL270J-A-B UP050SL270J-A-B UP050SL270J-A-B DD106-979F103Z50 DD106-979F103Z50 DD106-979F103Z50 DD106-979F103Z50 DD106-979F103Z50 DD104-979SL040C50 UP050SL330J-A-B DD106-979F103Z50 DD104-979SL100D50 DD104-979SL040C50 DD106-979F103Z50 DD106-979F103Z50 DD106-979F103Z50 UP050B102K-A-B UP050B102K-A-B DD106-979F103Z50 DD106-979F103Z50 DD106-979F103Z50 DD106-979F103Z50 DD106-979F103Z50	K26171009 K26171009 K28179028 K28179028 K28179028 K26170657 K26170657 K26170657 K26170657 K26170057 K26170057 K26170057 K26170057 K26170657 K26170657 K26170657 K26170657 K26170657 K26170657 K26170657 K26171202 K26170174 K26170298 K26170174			
C 2042	CERAMIC CAP. CERAMIC CAP.	5pF 0. 01uF	50V 50V	CH F	DD104-979CH050C50 DD106-979F103Z50	K26170174			

Local Unit

REF.	MFGR'S DESIG CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. AL. ELECTRO. CAP. CERAMIC CAP.	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
C 2044	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2045	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2046	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2047	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2048	AL. ELECTRO. CAP.	luf 22E	50V			K46170017			
C 2049	AL. ELECTRU. CAP.	330F 22E	32A 32A		35V33UM3X111K3	K40100002			
C 2050	AL. ELECIRU. CAP.	2211E	35V		35V330M5X11TR5	K40100002			
C 2051	AL FLECTRO CAP	33uF	35V		35V330M5X11TR5	K46160002			
C 2052	CERAMIC CAP.	1nF	50V	SL	DD104-979SL010C50	K26170095			
C 2054	AL. ELECTRO, CAP.	luF	50V	01	50V010M5X11TR5	K46170017			
C 2055	AL. ELECTRO. CAP.	luF	50V		50V010M5X11TR5	K46170017			
C 2056	AL. ELECTRO. CAP.	1uF	50V		50V010M5X11TR5	K46170017			
C 2057	CERAMIC CAP.	1pF	50V	SL	DD104-979SL010C50	K26170095			
C 2058	CAP.	0.01uF	50V		50F2Z103MTP	K56170057			
C 2059	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2060	AL. ELECTRO. CAP.	100uF	25V	_	25V101M6X11TR5	K46140005			
C 2061	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2062	CERAMIC CAP.	8pF	500	SL	DD104-979SL080D50	K26171003			
C 2063	CERAMIC CAP.		500	ľ	DD106-979F103Z50	K26170657			
C 2064	CERAMIC CAP.		50V	ז ס	DD106-979F103250	K20170057			
C 2065		0.010F	25V	г	25V101M6V11TR5	K46140005			
C 2000	AL. ELECTRO. CAP.	100 ur	20V 50V		50VR10M5X11TR5	K46170013			
C 2007	CERAMIC CAP	5nF	50V	SI.	DD104-979SL050C50	K26170100			
C 2069	FILM CAP.	0, 15uF	50V	00	50F2U154M	K50177154			
C 2070	CERAMIC CAP.	150pF	50V	В	UP050B151K-A-B	K28179081			
C 2071	CERAMIC CAP.	16pF	50V	SL	DD104-979SL160J50	K26171010			
C 2072	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2073	AL. ELECTRO. CAP.	1uF	50V		50V010M5X11TR5	K46170017			
C 2074	CERAMIC CAP.	16pF	50V	SL	DD104-979SL160J50	K26171010			
C 2075	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2076	CERAMIC CAP.	llpF	500	SL	DD104-979SL110J50	K26171006			
C 2077	CERAMIC CAP.	10pF	50V	SL	DD104-979SL100D50	K26171005			
		0.01uF 68pF	50V 50V	F SL	DD106-979F103Z50 UP050SL680J-A-B	K26170657 K28179033			
	CERAMIC CAP.	оорг ЗрГ	50V 50V	SL	DD104-979SL030C50				
	CERAMIC CAP.	20pF	50V	SL	UP050SL200J-A-B	K28179042			
	AL. ELECTRO. CAP.	luF	50V	00	50V010M5X11TR5	K46170017			
	CERAMIC CAP.	15pF	500	SL	DD104-979SL150J50				
	CERAMIC CAP.	13p	50V	SL	DD104-979SL130J50				
	AL. ELECTRO. CAP.	100uF	25V		25V101M6X11TR5	K46140005			
C 2087	CERAMIC CAP.	0. 01uF	50V	F	DD106-979F103Z50	K26170657			
	B CERAMIC CAP.	100pF	50V	В	UP050B101K-A-B	K28179004			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	100pF	50V	В	UP050B101K-A-B	K28179004			
	B CERAMIC CAP.	5pF	50V	SL	DD104-979SL050C50				
	CERAMIC CAP.	68pF	50V	SL	UP050SL680J-A-B	K28179033			
	5 CERAMIC CAP.	11pF	50V	SL	DD104-979SL110J50				
	6 CERAMIC CAP.	0.01uF 100pF	50V 50V	F B	DD106-979F103Z50 UP050B101K-A-B	K26170657 K28179004			
U 2091	7 CERAMIC CAP.	TOOPL	507	D	010000101N_V_D	ALOI13004			

-Local Unit

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
C 2098	CERAMIC CAP.	20pF	50V	SL	UP050SL200J-A-B	K28179042			
C 2099	CERAMIC CAP.	100pF	50V	В	UP050B101K-A-B	K28179004			
C 2100	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2101	CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2102	CERAMIC CAP.	0.047uF	50V	F	DD306-979F473Z50	K26170726			
C 2103	CERAMIC CAP.	0.047uF	50V	F	DD306-979F473Z50	K26170726			
C 2104	CERAMIC CAP.	0.047uF	50V	F		K26170726			
6 2105	CERAMIC CAP.	0.01Ur	50V	F	DD106-979F103Z50	K26170657			
C 2106	CERAMIC CAP.	1.5pF	50V	SL	DD104-979SL1R5C50				
C 2107	CERAMIC CAP.	0.01uF	50V	F		K26170657			
	CERAMIC CAP.			SL	DD104-979SL080D50				
C 2112	CERAMIC CAP.		50V	SL	DD104-979SL270J50				
C 2117	CERAMIC CAP.		50V	F		K26170657			
	CERAMIC CAP.		50V	F F	DD306-979F473Z50				
	CERAMIC CAP.		50V	r Ol	UP050F104Z-A-B	K28179003			
0 2127	CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP.		50V		DD104-979SL100D50				
0 2120	CERAMIC CAP.	10pr 0.01	50V	SL	DD104-979SL100D50 DD106-979F103Z50				
C 2129	CERAMIC CAP.		50V 50V	F F	DD106-979F103Z50	K26170657			
C 2130	CERAMIC CAP.	0.01uF	50V 50V	r F	DD106-979F103Z50	K26170657			
0 2101	CERAMIC CAP.	0.01uF	50V 50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2134	CERAMIC CAP	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2136	CERAMIC CAP		50V	F	DD106-979F103Z50	K26170657			
C 2137	CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2138	CERAMIC CAP	0.01uF	507	F	DD106-979F103Z50	K26170657			
C 2139	CERAMIC CAP.	0. 01uF	50V	F	DD106-979F103Z50	K26170657			
			500	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
C 2145	AL. ELECTRO. CAP.	0.47uF	50V		50VR47M5X11TR5	K46170016			
C 2146	CERAMIC CAP.	100pF	50V	SL	DD105-979SL101J50	K26171029			
C 2147	CERAMIC CAP.	100pF	50V	SL	DD105-979SL101J50	K26171029			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.01uF	50V	F	DD106-979F103Z50	K26170657			
	CERAMIC CAP.	0.047uF	50V	F	DD110F473Z50	K13179009		1-	
C 2156	CERAMIC CAP.	0.047uF	50V	F	DD306-979F473Z50	K26170726		5-	
CF2001	CERAMIC FILTER				SFT5. 57MA	H3900403			
D 2001	DIODE				1SS270TJ	G2060004			
D 2002					1SV103	G2090245			

Local Unit-

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	lot	ADDR.
D 2003 D 2004 D 2005 D 2006 D 2007 D 2008 D 2009 D 2010 D 2011 D 2012 D 2014 D 2015 D 2016 D 2017 D 2018	DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE				1SV103 1SV103 1SV103 1SS270TJ 1SS85 1SS198TJ 1SS198TJ 1SS198TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ DSP201M-S00B	G2090245 G2090245 G2090245 G2060004 G2090312 G2060011 G2060011 G2060011 G2060004 G2060004 G2060004 G2060004 G2060004 G2060004 G2060004 G2060004			
J 2002 J 2003 J 2004 J 2005 J 2006 J 2007 J 2008 J 2009 J 2010 J 2010 J 2011 J 2012 J 2013 J 2014	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR				TCS5073-16-4151 SC25-03WS SC25-04WS SC25-04WS TMP-J01X-A2 SC25-04WS SC25-09WS SC25-05WS SC25-05WS SC25-05WS TMP-J01X-A2 TMP-J01X-A2 SC25-03WS 3022-04B SC25-05WS	P1090647 P0090622 P0090623 P1090255 P0090623 P0090623 P0090628 P0090624 P0090623 P0090624 P1090255 P1090255 P1090255 P0090622 P0090523 P0090624			
JP2001 JP2002	WIRE-ASSY WIRE-ASSY WIRE-ASSY WIRE-ASSY					T9206254 T9206254A T9206254 T9206254A		1- 5- 1- 5-	
L 2009 L 2010	COIL COIL M. RFC COIL COIL COIL COIL COIL COIL M. RFC COIL M. RFC	100uН 15uН 18uН 150uH			0. 117U T25-12 0. 117U T25-12 50. 0M LAP02TA101K 0. 42U 0. 36U 0. 28U LAP02TA150K LAP02TA150K LAP02TA180K LAP02TA151K	$\begin{array}{c} L0021409\\ L0021409\\ L0021599\\ L1790070\\ L0021399\\ L0021400\\ L0021401\\ L0022082\\ L0022081\\ L0022080\\ L1790060\\ L0022079\\ L1790061\\ L1790072 \end{array}$			

-Local Unit

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT AD	DR.
L 2015 L 2016 L 2017 L 2020 L 2021 L 2022	COIL M. RFC M. RFC M. RFC M. RFC M. RFC	3.9uH 150uH 1mH 2.2uH 10uH			LAPO2TA3R9K LAPO2TA151K LALO3TA102K LAPO2TA2R2K LAPO2TA100K	L0022078 L1790053 L1790072 L1790119 L1790050 L1790058			
Q 2032 Q 2034 Q 2038 Q 2039 Q 2040 Q 2041 Q 2042 Q 2044 Q 2045	FET IC IC TRANSISTOR TRANSISTOR IC IC IC FET				HD74HC74P SN16913P 2SC458BTZ BA1A4P-T M54564P TC8521AP BA1A4P-T FQ7924 2SK192AGR (TPE4)	G1091006 G1090012 G3304584B G3050003 G1090836 G1091490 G3050003 G1091080 G3801924G		A4 A1 D4 A4 C1 B3 B4 C1 C1 D1 D1 D2 D2 D2 D2 D2 D1 B1 B2 C2 B2 C2 B2 C2 B2 A1 D3 C2 B2 C2 B2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2	
R 2002 R 2004	CARBON FILM RES. CARBON FILM RES. CARBON FILM RES. CARBON FILM RES.	100 100K 1K 18K	1/6V 1/6V 1/6V 1/6V	V 5% V 5%	RD16TPJ101 RD16TPJ104 RD16TPJ102 RD16TPJ183	J07225101 J07225104 J07225102 J07225183			

Local Unit-

REF.	MFGR'S DES	SIG VALI	JE WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
R 2007	CARBON FILM F	RES. 100	1/6W	5%	RD16TPJ101	J07225101			
R 2008	CARBON FILM F	RES. 100	1/6W	5%	RD16TPJ101	J07225101			
	CARBON FILM F			5%	RD16TPJ104	J07225104			
	CARBON FILM F		1/6W		RD16TPJ123	J07225123			
R 2011	CARBON FILM F	RES. 12K	1/6W		RD16TPJ123	J07225123			
R 2013	CARBON FILM H	RES. 100K	1/6W	5%	DD1000 1104	107995104			
R 2014	CARBON FILM H	RES. 470	1/6W	5%	RD16TPJ104 RD16TPJ471 RD16TPJ101 RD16TPJ223 RD16TPJ223 RD16TPJ223 RD16TPJ223 RD16TPJ223 RD16TPJ223 RD16TPJ223	J07225471			
R 2015	CARBON FILM I CARBON FILM I CARBON FILM I CARBON FILM I CARBON FILM I	RES. 100	1/6W	5%	RD16TPJ101	J07225101			
R 2016	CARBON FILM I	RES. 10K	1/6W	5%	RD16TPJ103	J07225103			
R 2017	CARBON FILM I	RES. 22K	1/6W	5%	RD16TPJ223	J07225223			
R 2018	CARBON FILM I	RES. 22K	1/6W	5%	RD16TPJ223	J07225223			
10 2010			1/01	5%	RD16TPJ223	J07225223			
	CARBON FILM I		1/6W	5%	RD16TPJZZ3	J07225223			
	CARBON FILM I		1/6W	070	1010110100	001220100			
	CARBON FILM I			F 0/	DD1000 1104	107005104			
	CARBON FILM I			5%	RD16TPJ104	J07225104			
	CARBON FILM	RES. 100K		ວ‰ ⊏%		J07225104			
R 2020	CARBON FILM	RES. 100K RES. 100K	1/6W 1/6W	0% ⊑%	RU101FJ104 PD16TD1104	J07225104 J07225104			
	GARBON FILM I CARBON FILM I			0/0 5%	RD16TPJ104 RD16TPJ104 RD16TPJ104 RD16TPJ104 RD16TPJ472 RD16TPJ101	J07225472			
	CARBON FILM I			5% 5%	RD16TPJ101	J07225101			
	CARBON FILM				RD16TPJ101	J07225101			
	CARBON FILM				RD16TPJ104				
	CARBON FILM				RD16TPJ104				
	CARBON FILM			5%	PD16TP 1104	107995104			
	5 CARBON FILM			5%	RD16TPJ104 RD16TPJ471 RD16TPJ103 RD16TPJ103 RD16TPJ103 RD16TPJ103	J07225104			
R 2036	S CARBON FILM	RES. 470	1/6W	5%	RD16TPJ471	J07225471			
R 2037	CARBON FILM	RES. 10K	1/6W	5%	RD16TPJ103	J07225103			
R 2038	CARBON FILM	RES. 10K	1/6W	5%	RD16TPJ103	J07225103			
R 2039	CARBON FILM CARBON FILM CARBON FILM	RES. 10K	1/6W	5%	RD16TPJ103	J07225103			
R 2040) CARBON FILM	RES. 10K	1/6W	5%	RD16TPJ103	J07225103			
	CARBON FILM		1/6W		RD16TPJ470	J07225470			
R 2042	2 CARBON FILM	RES. 10K	1/6W	5%	RD16TPJ103	J07225103			
R 2043	3 CARBON FILM	RES. 22K	1/6W	5%	RD16TPJ223	J07225223			
	A CARBON FILM		1/6W		RD16TPJ101	J07225101			
	5 CARBON FILM		1/6W		RD16TPJ101	J07225101			
	6 CARBON FILM		1/6W		RD16TPJ101	J07225101			
	7 CARBON FILM		1/6W		RD16TPJ101	J07225101			
	B CARBON FILM		1/6W		RD16TPJ331	J07225331			
	CARBON FILM		1/6W		RD16TPJ102	J07225102			
) CARBON FILM		1/6W		RD16TPJ471	J07225471			
	L CARBON FILM				RD16TPJ152	J07225152			
	2 CARBON FILM		1/6W		RD16TPJ101	J07225101			
	3 CARBON FILM				RD16TPJ182 RD16TPJ681	J07225182 J07225681			
	4 CARBON FILM 5 CARBON FILM		1/6W 1/6W		RD16TPJ331	J07225331			
	5 CARBON FILM		1/6W		RD16TPJ101	J07225101			
	7 CARBON FILM				RD16TPJ104	J07225101			
	9 CARBON FILM		. 1/6W		RD16TPJ101	J07225104			
	O CARBON FILM		1/6W		RD16TPJ102	J07225102			
	1 CARBON FILM		1/6W		RD16TPJ101	J07225101			
200			2, 56	0.4					

-Local Unit

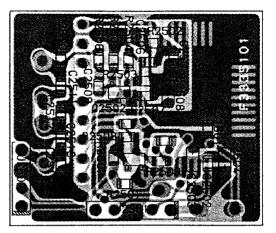
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R 2062 R 2063 R 2064 R 2065 R 2066 R 2067 R 2068 R 2069 R 2072 R 2073 R 2074 R 2075 R 2074 R 2075 R 2076 R 2077 R 2078 R 2077 R 2078 R 2077 R 2078 R 2097 R 2093 R 2092 R 2093 R 2094 R 2095 R 2095 R 2095 R 2096 R 2097 R 2098 R 2097 R 2098 R 2099 R 2097 R 2098 R 2097 R 2098 R 2099 R 2097 R 2098 R 2097 R 2007 R 2007 R 2007 R 2075 R 2077 R 2078 R 2097 R 2098 R 2097 R 2007 R	CARBON FILM RES. CARBON	5. 6K 4. 7K 680 10K 10K 1K 1K 1K 100K 220 220 220 220 220 220 220 220 220	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W		RD16TPJ562 RD16TPJ472 RD16TPJ472 RD16TPJ103 RD16TPJ103 RD16TPJ102 RD16TPJ102 RD16TPJ102 RD16TPJ221 RD16TPJ221 RD16TPJ221 RD16TPJ221 RD16TPJ221 RD16TPJ104 RD16TPJ104 RD16TPJ472 RD16TPJ390 RD16TPJ100 RD16TPJ103 RD16TPJ103 RD16TPJ103 RD16TPJ103 RD16TPJ103 RD16TPJ104 RD16TPJ104 RD16TPJ104 RD16TPJ472 RD16TPJ101 RD16TPJ472 RD16TPJ472 RD16TPJ472 RD16TPJ472 RD16TPJ101 RD16TPJ101 RD16TPJ101 RD16TPJ104 RD16TPJ104 RD16TPJ104 RD16TPJ104 RD16TPJ104	J07225562 J07225472 J07225681 J07225103 J07225102 J07225102 J07225102 J07225102 J07225221 J07225221 J07225221 J07225221 J07225221 J07225221 J07225104 J07225472 J07225472 J07225473 J07225103 J07225103 J07225103 J07225473 J07225103 J07225104 J07225104 J07225101 J07225472 J07225472 J07225104 J07225101 J07225101 J07225101 J07225101 J07225101 J07225104 J07225101	VERS.		ADDR.
R 2097 R 2098 R 2099 R 2100 R 2101 R 2102 R 2103 R 2104 R 2105 R 2106 R 2107 R 2108	CARBON FILM RES. CARBON FILM RES.	47K 47K 100K 100 470 4.7K 4.7K 100 100 100	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W	5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	RD16TPJ101 RD16TPJ471 RD16TPJ472 RD16TPJ472 RD16TPJ101 RD16TPJ101 RD16TPJ101 RD16TPJ104	J07225104 J07225471 J07225472 J07225472 J07225101 J07225101 J07225101 J07225101			
 R 2110 R 2111 R 2112 R 2112 R 2113 R 2114 R 2115 	CARBON FILM RES. CARBON FILM RES.	100K 100K 68K 330 1K 1K 1K 220	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W	5% 5% 5% 5% 5%	RD16TPJ104 RD16TPJ104 RD16TPJ683 RD16TPJ331 RD16TPJ102 RD16TPJ102 RD16TPJ102 RD16TPJ221	J07225104 J07225104 J07225683 J07225331 J07225102 J07225102 J07225102 J07225102 J07225221			
T 2001 T 2002	07 RF TRANS 07 RF TRANS				SSS212299 40.96M R12-M424A 42.0M 42.0M 46.08M R12-M421A	N6090051 L0021941 L0021511 L0021511 L0021939			

Local & OSC Unit

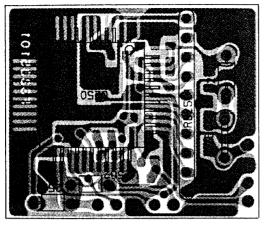
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TP2001 TP2002 TP2003 TP2004 TP2005	TP-K TP-K TP-K				IPS-1136 IPS-1136 IPS-1136 IPS-1136 IPS-1136 IPS-1136	Q5000050 Q5000050 Q5000050 Q5000050 Q5000050			
X 2002 X 2002 X 2003 X 2004	XTAL XTAL	46.755MHz 46.755MHz 12.288MHz 32.768KHz				H0103058 H0103058A H0102937 H0102473		1- 4-	
	SHIELD CASE (2pcs) SHIELD COVER (2pcs) SHIELD CASE SHIELD COVER SHIELD CASE SHIELD CASE COVER SHIELD PLATE SHIELD PLATE SHIELD PLATE SHIELD PLATE CARD SPACER				WLS-04-0	R0128070 R0131640 R0131670 R0131680 R0137050 R0145380 R0146200 R0146210 R0146390 S6000191			

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	lot	ADDR.
		*** OSC	UNIT	***					
	PCB With Components	S				CA1001001			
	Printed Circuit Boa	ard				F3333102			
	CERAMIC CAP. CERAMIC CAP.	33pF 33pF	50V 50V	SL SL	DD104-979SL330J50 DD104-979SL330J50				
J 2701	CONNECTOR				5124-04BHPB	P1090426			
TC2701	TRIMMER CAP.	10pF			VCT51C122	K91000085			
X 2701	XTAL	10. 48576	SMHz			H0102990			

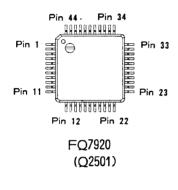
-PLL DDS Unit



chip-only side

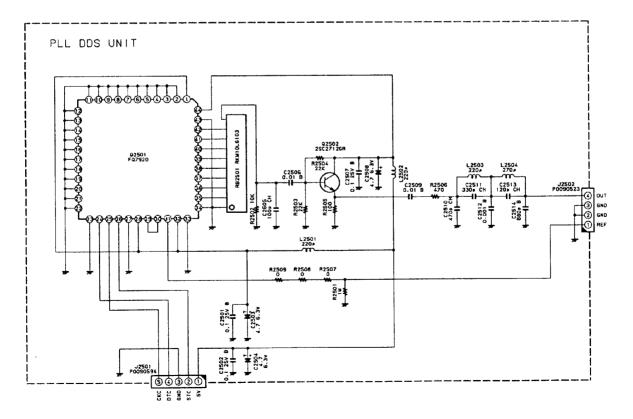


component side



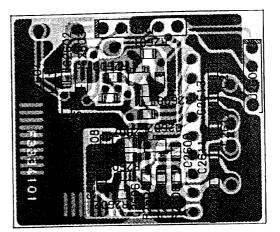


2SC2712GR (LG) (Q2502)

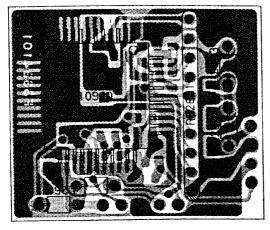


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		*** PLL [DS UNI	 T ***				
	PCB With Components	5				CA0984001		
	Printed Circuit Boa	ırd				F3335101		
C 2501 C 2502 C 2503 C 2504 C 2505 C 2506 C 2507 C 2508 C 2509 C 2510 C 2511 C 2512 C 2513 C 2514	CHIP CAP. TANTALUM CHIP CAP. TANTALUM CHIP CAP. CHIP CAP. CHIP CAP. CHIP CAP. TANTALUM CHIP CAP. CHIP CAP.	4.7uF 4.7uF 100pF 0.01uF 0.1uF	25V 25V 6.3V 50V 50V 25V 6.3V 50V 50V 50V 50V 50V	B B CH B B CH CH B CH B CH B	GRM40B104M25PT GRM40B104M25PT TEMSVA0J475M-8R TEMSVA0J475M-8R GRM40CH101J50PT GRM40B103M50PT GRM40B104M25PT TEMSVA0J475M-8R GRM40B103M50PT GRM40CH471J50PT GRM40CH331J50PT GRM40CH121J50PT GRM40B681M50PT	K22140811 K22140811 K78080017 K78080017 K22170235 K22170817 K22140811 K78080017 K22170817 K22170251 K22170251 K22170247 K22170805 K22170237 K22170803		
J 2501 J 2502	CONNECTOR CONNECTOR				3022-05B 3022-04B	P0090594 P0090523		
L 2501 L 2502 L 2503 L 2504	M. RFC M. RFC M. RFC M. RFC	220uH 220uH 220uH 270uH			LAPO2TA221K LAPO2TA221K LAPO2TA221K LALO3NA271K	L1790074 L1790074 L1790074 L1190223		
Q 2501 Q 2502	IC TRANSISTOR				FQ7920 2SC2712GR TE85R	G1090952 G3327127G		
R 2501 R 2502 R 2503 R 2504 R 2505 R 2506 R 2506 R 2507 R 2508 R 2509	CHIP RES. CHIP RES. CHIP RES. CHIP RES. CHIP RES. CHIP RES. CHIP RES. CHIP RES. CHIP RES.	1M 10K 22K 22K 100 470 0 0 0	1/100 1/100 1/100 1/100 1/100 1/100 1/100 1/100	4 4 7 7 7 7 7 7 7	RMC1/10T 105J RMC1/10T 103J RMC1/10T 223J RMC1/10T 223J RMC1/10T 101J RMC1/10T 471J RMC1/10T 000J RMC1/10T 000J RMC1/10T 000J	$\begin{array}{c} J24205105\\ J24205103\\ J24205223\\ J24205223\\ J24205101\\ J24205471\\ J24205000\\ J24205000\\ J24205000\\ J24205000\\ \end{array}$		
RB2501	BLOCK RES.				RKM10LG103	J40900170		
	SHIELD CASE SHIELD COVER					R0131630 R0131640		

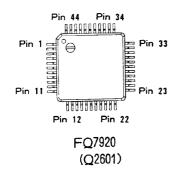
-CAR DDS Unit



chip-only side

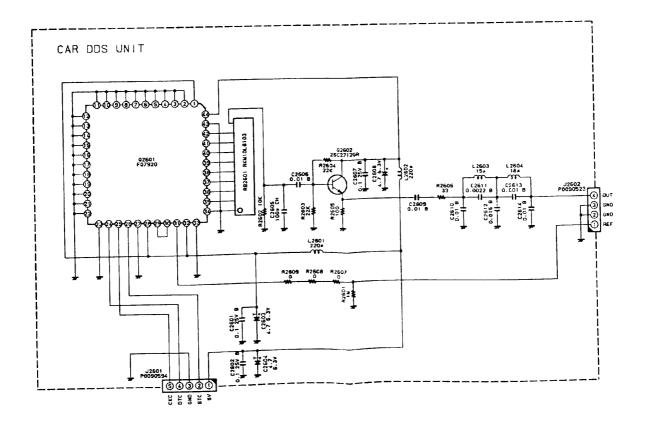


component side



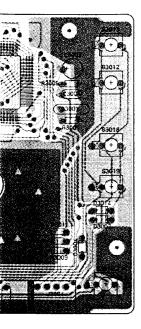


2SC2712GR (LG) (Q2602)

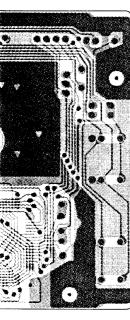


REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	ADDR.
		*** CAR D	DS UNI	T ***				
	PCB With Components	3				CA0985001		
	Printed Circuit Boa	ard				F3334101		
$ \begin{array}{c} C & 2601 \\ C & 2602 \\ C & 2603 \\ C & 2604 \\ C & 2605 \\ C & 2606 \\ C & 2607 \\ C & 2608 \\ C & 2609 \\ C & 2609 \\ C & 2610 \\ C & 2611 \\ C & 2612 \\ C & 2613 \\ C & 2614 \\ \end{array} $	CHIP CAP. CHIP CAP. TANTALUM CHIP CAP. TANTALUM CHIP CAP. CHIP CAP.		25V 25V 6.3V 50V 50V 25V 6.3V 50V 50V 50V 50V 50V	B B CH B B B B B B B B B B B B	GRM40B104M25PT GRM40B104M25PT TEMSVA0J475M-8R TEMSVA0J475M-8R GRM40CH101J50PT GRM40B103M50PT GRM40B104M25PT TEMSVA0J475M-8R GRM40B103M50PT GRM40B103M50PT GRM40B153M50PT GRM40B153M50PT GRM40B102M50PT	K22140811 K22140811 K78080017 K78080017 K22170235 K22170817 K22140811 K78080017 K22170817 K22170817 K22170809 K22170809 K22170805 K22170817		
J 2601 J 2602	CONNECTOR CONNECTOR				3022-05B 3022-04B	P0090594 P0090523		
L 2601 L 2602 L 2603 L 2604	M. RFC M. RFC M. RFC M. RFC	220uH 220uH 15uH 18uH			LAPO2TA221K LAPO2TA221K LAPO2TA150K LAPO2TA180K	L1790074 L1790074 L1790060 L1790061		
Q 2601 Q 2602	IC TRANSISTOR				FQ7920 2SC2712GR TE85R	G1090952 G3327127G		
R 2601 R 2602 R 2603 R 2604 R 2605 R 2606 R 2607 R 2608 R 2609 RB2601	CHIP RES. CHIP RES. CHIP RES. CHIP RES. CHIP RES. CHIP RES. CHIP RES. CHIP RES. CHIP RES. BLOCK RES.	1M 10K 22K 22K 100 33 0 0 0	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W		RMC1/10T 105J RMC1/10T 103J RMC1/10T 223J RMC1/10T 223J RMC1/10T 101J RMC1/10T 330J RMC1/10T 000J RMC1/10T 000J RMC1/10T 000J RMC1/10T 000J	J24205105 J24205103 J24205223 J24205223 J24205223 J24205330 J24205000 J24205000 J24205000 J24205000		
	SHIELD CASE SHIELD COVER				-	R0131630 R0131640		

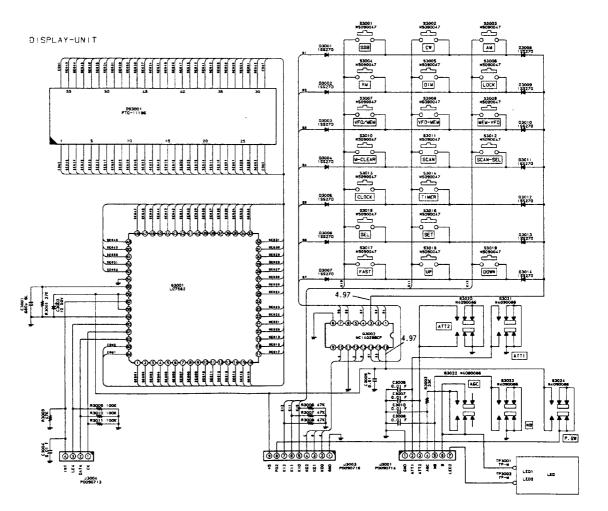
Display Unit $(lot 1\sim)$

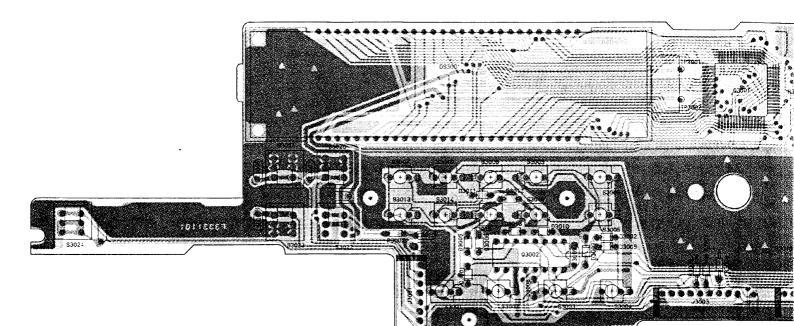


component side

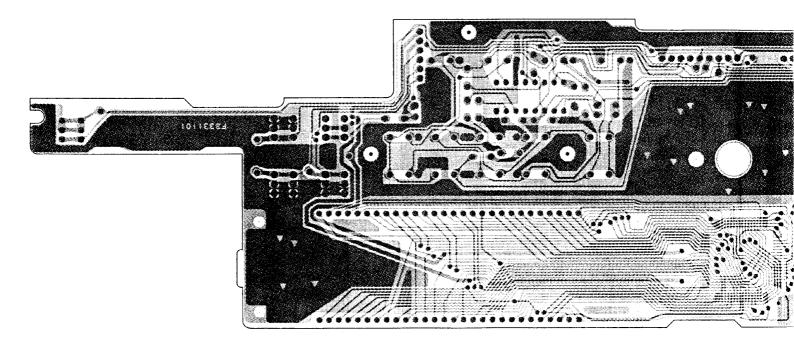


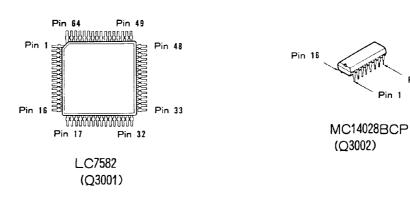
solder side





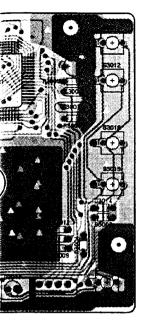
comp



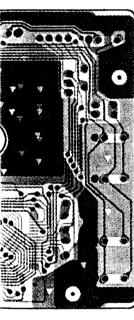


Pin 8

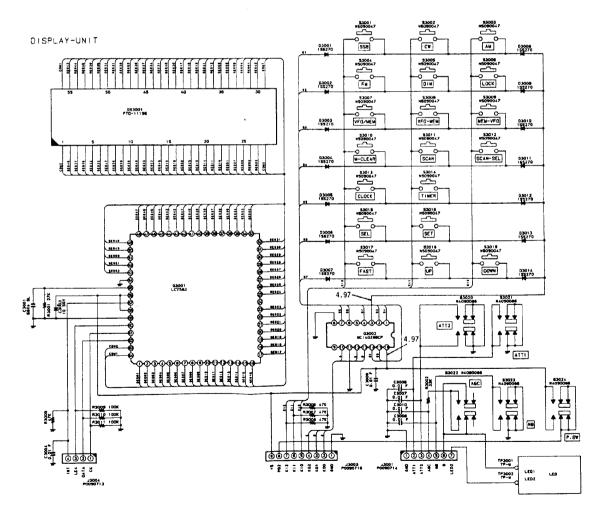
Display Unit

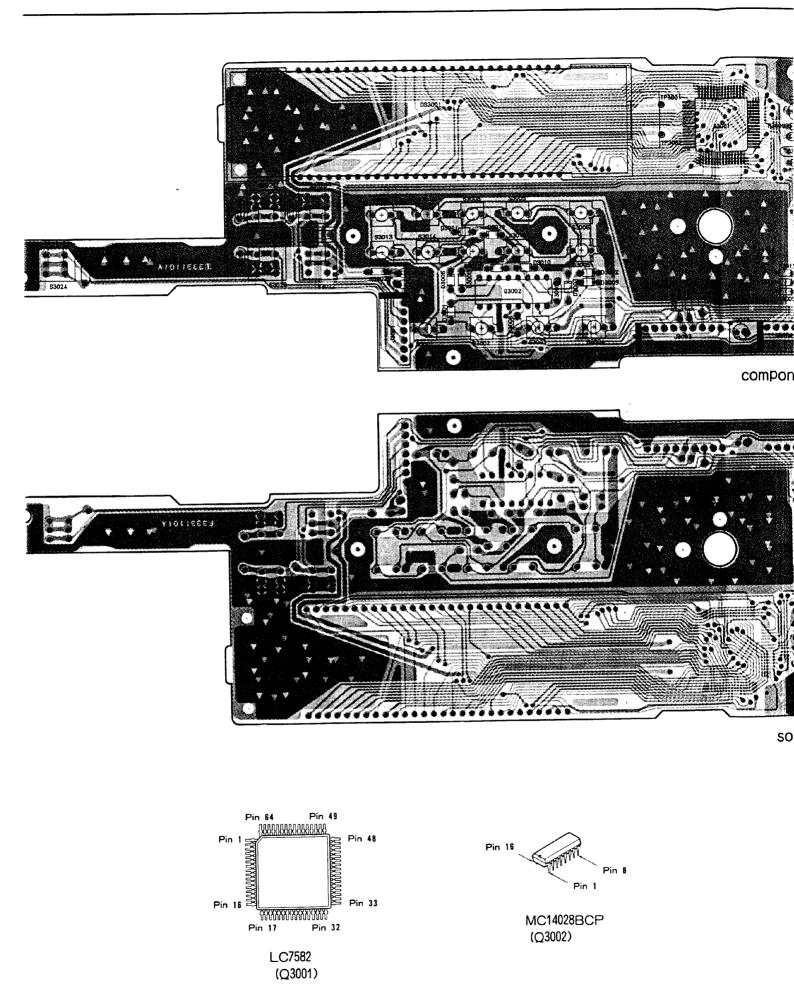


component side



solder side



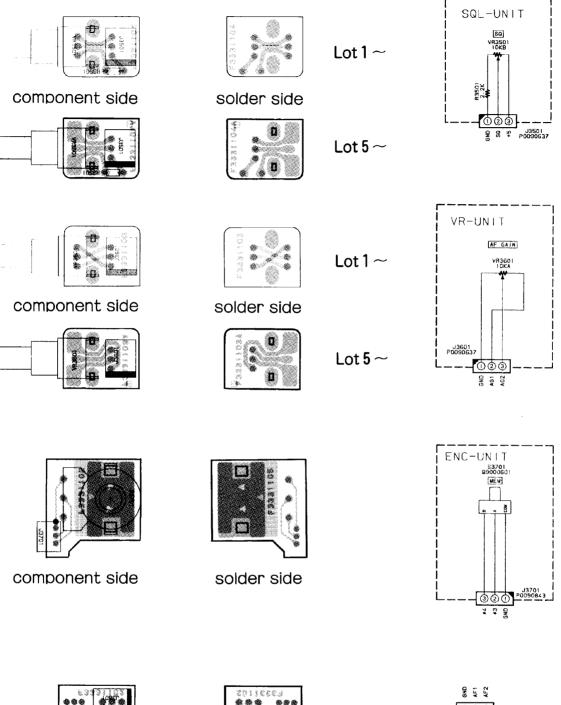


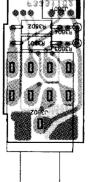
REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
		*** DISPI	* *						
	PCB With Component		CA0855001						
	Printed Circuit Bo Printed Circuit Bo					F3331101 F3331101A		1- 5-	
C 3003 C 3004 C 3006 C 3007 C 3008 C 3009 C 3010 C 3011 C 3011	CERAMIC CAP. AL. ELECTRO. CAP. AL. ELECTRO. CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. AL. ELECTRO. CAP. AL. ELECTRO. CAP.	22uF 0.01uF 0.01uF 0.01uF 0.01uF 0.01uF 0.01uF 10uF 22uF	50V 50V 50V 50V 50V 50V 50V 50V 50V 16V	F F F	DD106-979F103Z50 DD106-979F103Z50	K46170021 K46170022 K26170657 K26170657 K26170657 K26170657 K26170657 K26170657		1- 5- 1- 5- -4	
D 3001 D 3002 D 3003 D 3004 D 3005 D 3006 D 3007 D 3008 D 3009 D 3010 D 3011 D 3012 D 3013 D 3014	DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE				1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ	G2060004 G2060004 G2060004 G2060004 G2060004 G2060004 G2060004 G2060004 G2060004 G2060004 G2060004 G2060004 G2060004 G2060004 G2060004			
DS3001	LCD				FTD-11691AAP	G6090092			
J 3003	CONNECTOR CONNECTOR CONNECTOR				SC25-07WL SC25-09WL SC25-04WL	P0090714 P0090716 P0090713			
Q 3001 Q 3002					LC7582 MC14028BCP	G1090830 G1090088			
R 3002 R 3005 R 3006 R 3007 R 3008	CARBON FILM RES. CARBON FILM RES. CARBON FILM RES. CARBON FILM RES. CARBON FILM RES. CARBON FILM RES. CARBON FILM RES.	27K 33K 47K 47K 47K 47K 100K	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W	5% 5% 5% 5%	RD16TPJ273 RD16TPJ333 RD16TPJ473 RD16TPJ473 RD16TPJ473 RD16TPJ473 RD16TPJ473 RD16TPJ104	J07225273 J07225333 J07225473 J07225473 J07225473 J07225473 J07225473 J07225104			

Display Unit

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
	CARBON FILM RES.	100K	1/6W	5%	RD16TPJ104	J07225104			
R 3011	CARBON FILM RES.	100K	1/6W	5%	RD16TPJ104	J07225104			
S 3001	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H-9.5	N5090047			
	TACT SWITCH TACT SWITCH				EVQ-333 H=0 5	N5090047 N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
S 3017	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	TACT SWITCH				EVQ-333 H=9.5	N5090047			
	PUSH SWITCH				SPH121A94	N4090086			
	PUSH SWITCH				SPH121A94	N4090086			
	PUSH SWITCH				SPH121A94	N4090086			
	B PUSH SWITCH				SPH121A94	N4090086			
\$ 3024	PUSH SWITCH				560121894	14090000			
TP3001	TP-M				IPS-1145	Q5000052			
TP3002	2 TP-M				RD16TPJ104 EVQ-333 H=9.5 EVQ-333 H=9.5 EVQ-334 H=9.5 EVQ-344 H=9.5 EVQ-344 H=9.5 EVQ-344 H=9.5 EVQ-344 H=9.5 EVQ-344 H=9.5 EVQ-344 H=9.5 EVQ-344 H=9.5 EVQ-344 H=9.5 EVQ-344 H	Q5000052			

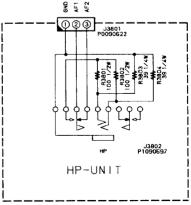
SQL, VR, ENC & HP Unit





component side

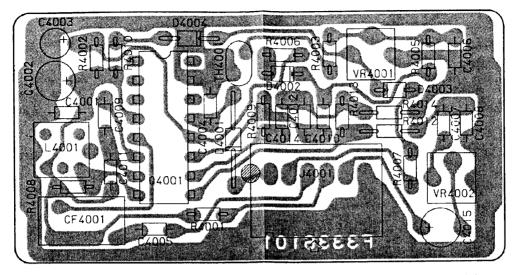
solder side



-SQL,VR,ENC & HP Unit

REF.	MFGR'S DESIG	VALUE	WV	TOL.		DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
		*** SQL	UNIT	***						
	PCB With Component	ts					CA0986001			
	Printed Circuit Be Printed Circuit Be						F3331104 F3331104A		1- 5-	
J 3501	CONNECTOR				S	C25-03WL	P0090637			
R 3501	CARBON FILM RES.	2. 2K	1/6	5%	R	D16TPJ222	J07225222			
VR3501	POT.	10K		B	8 R	2K09L1120 10KB	J60800193			
	PCB With Componer	nts					CA0856001			
	Printed Circuit H Printed Circuit H						F3331103 F3331103A		1- 5-	
J 3601	CONNECTOR					SC25-03WL	P0090637			
VR3601	POT.	10K			A	RKO9L1120 10KA	J60800192			
		 *** ENC								
	PCB With Compone	nts					CA0987001			
	Printed Circuit						F3331105			
J 370	1 CONNECTOR					SB20-03WL	P0090843			
S 370	1 ROTARY ENCODER					EVQ-WWRF2024B	Q9000601			
		 *** HP		 ***			. 			
	PCB With Compone		0111				CA085700	1		
	Printed Circuit						F3331102			
	11 CONNECTOR 12 CONNECTOR					SC25-03WS S-G4617#02	P0090622 P1090697			
R 380 R 380)1 CARBON FILM RES)2 CARBON FILM RES)3 CARBON FILM RES)4 CARBON FILM RES	. 100 . 39	1/ 1/		5% 5%	RD12TJ101 RD12TJ101 RD14SJ390 RD14SJ390	J0127510 J0127510 J0224539 J0224539)1)0		

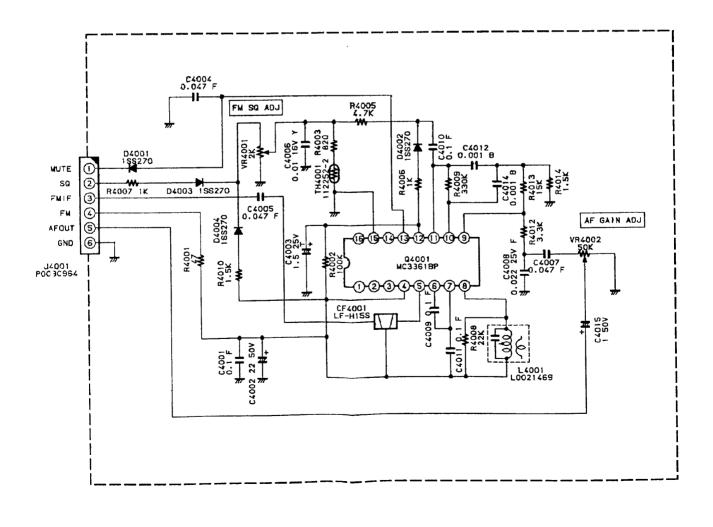
-FM Unit-100 (Option)



component side

Pin 16 Pin 8 Pin 1

MC3361BP (Q4001)

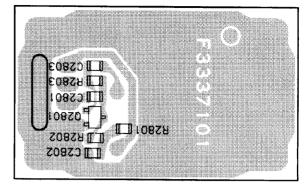


REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	ADDR.
		*** FM UN						
	Printed Circuit Boa	rd				F3336101		
C 4003 C 4004 C 4005 C 4006 C 4007 C 4008 C 4009 C 4010 C 4011 C 4012 C 4014	CERAMIC CAP. CERAMIC CAP. CERAMIC CAP. CERAMIC CAP.	22uF 1.5uF 0.047uF 0.01uF 0.047uF 0.047uF 0.022uF 0.1uF 0.1uF 0.1uF 0.1uF 0.001uF 0.001uF	50V 25V 50V 50V 16V 50V 25V 50V 50V 50V 50V	F F F F F F F B B	UP050F104Z-A-B 50V220M5X11TR5 TPDN1E1R5M8S UP050F473Z-A-B UP050F473Z-A-B EP050Y103N-A UP050F473Z-A-B TP050F223Z-A-B UP050F104Z-A-B UP050F104Z-A-B UP050F104Z-A-B UP050B102K-A-B UP050B102K-A-B 50V010M5X11TR5	K46170022 K76140014 K28179002 K28179002 K28129001 K28179002 K28149001 K28179003 K28179003 K28179003 K28179001 K28179001		
CF4001	CERAMIC FILTER				LF-H15S	H3900204		
D 4001 D 4002 D 4003 D 4004	DIODE DIODE DIODE DIODE				1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ 1SS270TJ	G2060004 G2060004 G2060004 G2060004		
J 4001	CONNECTOR				SO6B-JL-R	P0090964		
L 4001	COIL				455K R12-3980C	L0021469		
Q 4001	IC				MC3361BP	G1091525		
R 4001 R 4002 R 4003 R 4005 R 4006 R 4007 R 4008 R 4009 R 4010 R 4012 R 4013 R 4014	CARBON FILM RES. CARBON FILM RES. CARBON FILM RES. CARBON FILM RES. CARBON FILM RES.	47 100K 820 4.7K 1K 1K 22K 330K 1.5K 3.3K 15K 1.5K	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W		RD16TPJ470 RD16TPJ104 RD16TPJ821 RD16TPJ472 RD16TPJ102 RD16TPJ102 RD16TPJ223 RD16TPJ334 RD16TPJ152 RD16TPJ332 RD16TPJ153 RD16TPJ153	J07225470 J07225104 J07225821 J07225472 J07225102 J07225102 J07225223 J07225334 J07225152 J07225152 J07225153 J07225153		
TH4001	THERMISTOR				112252-2	G9090016		
VR4001 VR4002	POT. POT.	2K 50K			EVN-DCAA03B23 EVN-DCAA03B54	J50784202 J50784503		

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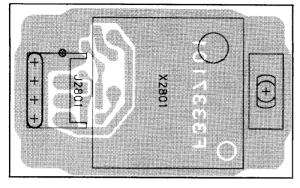
-TCXO-4 (Option)



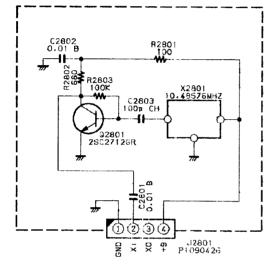
chip-only side



2SC2712GR (LG) (Q2801)



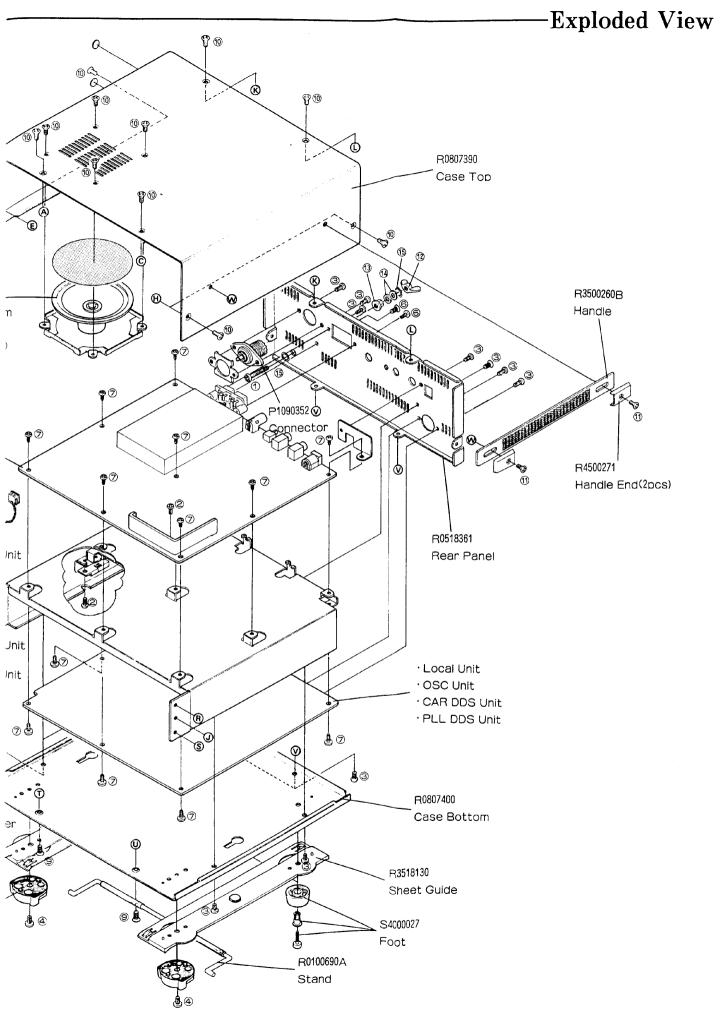
compoonent side



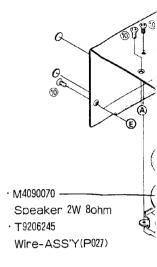
REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	ADDR.
		*** TCXO-	4 ***					
	Printed Circuit Boa	rd				F3337101		
C 2801 C 2802 C 2803	CHIP CAP. CHIP CAP. CHIP CAP.	0.01uF 0.01uF 33pF	50V 50V 50V	B B Ch	GRM40B103M50PT GRM40B103M50PT GRM40CH330J50PT	K22170817 K22170817 K22170223		
J 2801	CONNECTOR				5124-04BHPB	P1090426		
Q 2801	TRANSISTOR				2SC2712GR TE85R	G3327127G		
R 2801 R 2802 R 2803	CHIP RES. CHIP RES. CHIP RES.	100 1K 100K	1/10W 1/10W 1/10W		RMC1/10T 101J RMC1/10T 102J RMC1/10T 104J	J24205101 J24205102 J24205104		
X 2801	XTAL	10.48576M	Hz		GF-1031	H9500140		

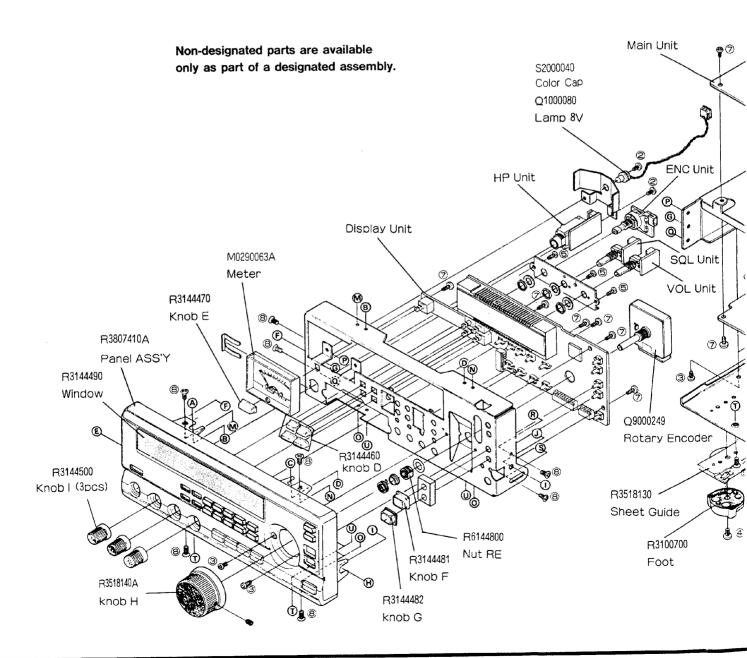
Main Ass'y

REF.	MFGR'S DESIG	VALUE	WV	TOL.	DESCRIPTION	YAESU P/N	VERS.	LOT	ADDR.
		*** MAIN	ASSY	***					
BT0001	LITHIUM BATTERY				CR2032	Q9000564			
C 0001	CERAMIC CAP.	0. 01uF	16V	Y	EP050Y103N-A	K28129001			
D 0001	LED				D2106	G2090570			
F 0001	FUSE				1.5A	Q0000021			
J 0001	CONNECTOR				FM-MDR-MI	P1090352			
JP1003	WIRE-ASSY WIRE-ASSY WIRE-ASSY					T9206252 T9206253 T9206251			
	WIRE STP-JW 0.58(5) WIRE STP-JW 0.58(5)					T9950001 T9950001			
P 0003 P 0005 P 0007 P 0009 P 0011 P 0013 P 0013 P 0013 P 0013 P 0015 P 0017 P 0019 P 0021 P 0021 P 0023 P 0025 P 0025 P 0025 P 0025 P 0027 P 0028 P 0030 P 0032 P 0033 P 0033 P 0035 P 2001 P 2001 P 2001 P 2002	WIRE-ASSY WIRE-ASSY TMP-PLUG WIRE-ASSY CW-ASSY CW-ASSY CW-ASSY					T9317855 T9309401 T9315903 T9206240 T9206250 T9206250A T9206249 T9206249 T9206249 T9206248 T9206248 T9206248 T9206248 T9206246 T9206235 T9206245 T9206245 T9206245 T9206235 T9206243 T9206236 T9206236 T9206237 T9206054 T9206054 T9206054 T9206054		5-	
Q 0001 Q 0002					HA17805P L7809	G1090936 G1090778			
S 0001	ROTARY ENCODER				Z99W-09	Q9000249			
	THERMAL CONDUCTOR (2	lpcs)			45T-TO-220	Q9000548			



Ref No.	YAESU P/N	Description	Qty
1	U00520002	PAN HEAD SCREW M5X20NI	1
0	U20306001	BINDING HEAD SCREW M3X6	5
3	U20306007	BINDING HEAD SCREW M3X6B	14
4	U20410007	BINDING HEAD SCREW M4X10B	2
6	U23306001	TAPTITE SCREW M3X6	3
6	U23308007	TAPTITE SCREW M3X8B	2
Ø	U24306001	TAPTITE SCREW M3X6	21
8	U30306001	FLAT HEAD SCREW M3X6	8
9	∪30306007	FLAT HEAD SCREW M3X6B	2
10	U31306007	OVAL HEAD SCREW M3X6B	12
1	U31410007	OVAL HEAD SCREW M4X10B	2
12	U65500102	WING NUT N5NI	1
1)	U65500002	FLANGE NUT N5NI	1
19	U70005002	PLAIN WASHER FW5NI	2
19	U73005002	TOOTHED LOCK WASHER	2







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