DX-70

Service Manual

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ALINCO, INC.

SPECIFICATIONS

1) General

Operating mode		J3E(LSB,USB). A1A(CW). F3E(FM)
Number of memory channels	hannels	001
Antenna impedance		50 Ω unbalanced
Power requirement		13.8 V DC ± 15% (11.7 to 15.8 V DC)
Grounding method		Negative ground
	Receive	1.0 A max.
Current or ain	Transmit	20 A max.
Operating temperature	9	.10 °C to +60 °C
Frequency stability		± 10 ppm (-10 °C to +50 °C)
Dimensions		$178(w) \times 58(h) \times 228(d)$ mm (179 × 71 × 268 mm for projections included)
Weight		Approx. 2.7 kg

2) Transmitter

		160 m band	1.8000 to 1.9999MHz
		80 m band	3.5000 to 3.9999MHz
		40 m band	7.0000 to 7.2999MHz
i		30 m band	10.1000 to 10.1499MHz
Transmit frequency	incy .	20 m band	14.0000 to 14.3499MHz
coverage	(no	17 m band	18.0680 to 18.1679MHz
(C.S. (C.S. 3.4)	ì	15 m band	21.0000 to 21.4499MHz
		12 m band	24.8900 to 24.9899MHz
		10 m band	28.0000 to 29.6999MHz
		6 m band	50.0000 to 53.9999MHz
		711 110 000	100 W (high)
1	-	33B. CW. F.M	Approx. 10 W (low)
Ė	HF band	N.	40 W (high)
Power		MY	Approx. 4 W (low)
output		Ma Mo ass	10 W (high)
503	50 MHz	33B; CM: 1 M	Approx. 1 W (low)
Ps	band	A 14	4 W (high)
		E C	Approx. 0.4 W (low)
	SSB	8	Balanced modulation
Modulation	AM	Ţ	Low power modulation
33316111	FM		Reactance modulation

Transmitter (continued)

	HF bands	Less than -50 dB (-45 dB in 10 MHz band)
Spurious emission	50 MHz band	Less than -60 dB
Carrier Suppression		More than 40 dB
Sideband suppression		More than 50 dB (at 1 kHz)
Maximum FM	HF bands	± 2.5 kHz
deviation (default)	50 MHz band	± 5 kHz
Microphone impedance		2 kΩ

3) Receiver

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Receiver circuitry	ircuitry		Double conversion superheterodyne	rheterodyne
Receive fr	Receive frequency range		0.1500 MHz to 30.0000 M	0.1500 MHz to 30.0000 MHz, 50.0000 MHz to 54.0000 MHz
Intermedia	Intermediate frequency		71.75 MHz (1st)	455 kHz(2nd)
	100	0.5 to 1.8 MHz	0 dB (1 µV)	
	SSB, CW (CM 10 4B)	1.8 to 30 MHz	-12 dB (0.25 µV)	
	(cm)1 k1/(c)	50 to 54 MHz	-16 dB (0.15 µV)	
	AM (1 kHz.	0.5 to 1.8 MHz	+20 dB (10 µV)	
Sensitivity	30%, Mod,	1.8 to 30 MHz	+6 dB (2 µV)	
	S/N 10 dB)	50 to 54 MHz	+6 dB (2 µV)	
	FM (1 kHz,	28 to 30 MHz	-6 dBµ (0.5 µV)	
	SINAD 12 dB)	SINAD 12 dB) 50 to 54 MHz	-10 dBµ (0.3 µV)	
	SSB, AM(Narrow)	аттом)	2.4 kHz/-6 dB, 4.5 kHz/-60 dB	7-60 dB
		SSB(Narrow), CW(Standard)	1.0 kHz/-6 dB, 3.0 kHz/-60 dB	7-60 dB
Selectivity	CW(Narrow)	(/	500 Hz/-6 dB, 3.0 kHz/-60 dB	7-60 dB
	AM(Standard), FM	rd), FM	9 kHz/-6 dB, 20 kHz/-50 dB	50 dB
Superiors	Superiors and image rejection ratio	ection ratio	More than 70 dB	
Audio ou	Audio output power		More than 2.0 W (at 8 \O, 10\pi THD)	Ω, 10% THD)
RIT/TXIT range	T range		± 1.4 kHz	

CIRCUIT DESCRIPTION

1. Receiver System

- 1) Filter Unit
- a. HF Antenna Input

SA501 and R527 are installed in the input part of HF antenna terminal as the countermeasure against the thunder.

The electric charge of HF antenna is discharged at R527, and when the voltage becomes over about 300V, the gap of SA501 is discharged so that the receiving input circuit is protected.

The input signal from HF antenna is passed through the transmission/reception selecting relay RL513. The followings are prevented in LPF consisting of L525, L526, C580, C581 and C582: 2m band image receiving, passing through the First IF (71.75MHz) and leaking of the first local oscillating frequency (72~130MHz) to the antenna terminal.

b. 50MHz Antenna Input

The receiving signal from the antenna of 50MHz band is passed through the LPF for transmission/reception and passed through the transmitting power detection circuit, then led to transmission/reception switching circuit consisting of D508 and D509, and to HPF. The signal is amplified about 8dB in O503. Because the space noise in 50MHz band is less than it in HF band, its exclusive receiving preamplifier is equipped to get high sensitivity.

The receiving signal of 50MHz or HF is selected in RL514, then after passing through the attenuator circuit (ON/OFF) of about 20dB consisting of RL515, R528 and R531 the signal is led to the Main unit.

2) Main Unit

a. Front End

The receiving signal output from Filter Unit is fed to Main unit through CN2.

HPF, consisting of L19, L20, C47, C48, C49, C50, C51 and C52, eliminates the strong radio signal of MW band of 1.6MHz or below. In case of receiving the signal of 1.6MHz or below, the sensitivity is controlled by the attenuator in R37 and BPF1, also the signal is separated into 1.6MHz, over or below.

5 BPF units consists of 9 filters. Each filter covers the following frequency range. The frequency of 2.5MHz or more consists of Chebyshev BPF, and under 2.5MHz frequency band is LPF. Two BPFs are installed on the same unit. Not to be influenced so much, the distant frequency band BPFs are combined.

	1.8MHz	3.5MHz	7MH ₂	10MHz	14MHz	18, 21MHz	24, 28MHz	50MHz
BPF1	BPF2	BPF3	BPF4	BPF1	BPF2	BPF3	BPF4	BPF5
- 1.6MHz	1.6 - 2.5MHz	2.5 - 4.5MHz	4.5 - 7.5MHz	7.5 - 10.5MHz	10.5 - 14.5MHz	14.5 - 21.5MHz	21.5 - 30MHz	50 - 54MHz

Passing through BPF, the signal turns ON/OFF in the switching diode, D29 and D30. This preamplifier is the parallel grounded gate operation of Q9 and Q10 (2SK2171), so the unit can obtain a good performance at a high level input signal with low NF.

The wide range frequency from about 1MHz to 60MHz is amplified about 10dB.
This 10dB preamplifier and 20dB attenuator in the Filter unit are combined, then by pressing RF gain switch on the front panel, one of four steps, -20, -10, 0, or +10dB is selected.

The LPF, consisting of L52, L53, L54, C103, C104, C105, and C106, prevents the following first receiving mixer from the local oscillation leaking, and also prevents the first IF and image of the spurious receiving.

The first receiving mixer consisting of Q10 and Q11 is the balanced mixer, in which the local oscillating signal is fed to the gate of 2SK2171.

The 3rd intercept point is about 20d8m, and local oscillator of about 2V P-P is fed to the gate. The receiving signal is converted into the first IF of 71.75MHz. As the ratio of the spurious interference is decreased in 50MHz band mode, the trap of 71.75MHz consisting of L72 and C107 keeps the ratio of spurious interference 70d8 or more in all band.

b. The First IF Amplifier Circuit

FL1: A and FL1: B are the crystal filters of 71.75MHz. By the combination of two filters, the unit has the characteristics of the band width of 15kHz or more/3dB and the value of guaranteed attenuation of 70dB or more. Here the image ratio is determined 70dB or more (approx. 80dB). The first IF amplifier circuit of Q12 is located between the crystal filters to prevent the loss in the front-end and mutual interference.

The first IF amplifier circuit Q12 decides the sensitivity after passing the mixer. AGC voltage is applied to the second gate.

c. The Second Mixer Circuit, The Second Amplifier Circuit

DBM (Double Balanced Mixer) consists of L14, D7 and L16. The signal is passed in the opposite direction while receiving or transmitting in this DBM. Approximately 0dBm is fed as the second local oscillating level, and the third IP is approximately northm.

The receiving signal (71.75MHz) and the second local oscillating frequency (71.295MHz) is mixed, and unwanted signal is eliminated in LPF consisting of L17, L73 and C36, then the signal of 455kHz is generated. After passing through the switching diode D8, the signal is amplified in Q22. The source of Q22 is controlled by the output of the noise blanker circuit.

d. IF Filter

After passing through the transmission/reception switching diode D9, the signal is led to one of three ceramic filters of 455kHz. The selectivity is decided here except CW narrow.

SSB, AM-NARROW	FL3(CFJ455K5)	2.4kHz/-6dB 4.5kHz/-60dF	4.5kHz/-60dF
SSB-NARROW, CW FL2(CFJ455K8)	FL2(CFJ455K8)		3.0kHz/-60dF
FM, AM	FL4(CFW455G)		20kHz/-50dB

Each filter has 4 switching diodes (D3~D48) in front and rear to isolate the filter.

The isolation is required the value of guaranteed atternation of each filter (approx. 70dB) or more. The diode connected in parallel in front and rear of no used filter is short and the diode connected in series is open. The combination of open and short is used to get the high isolation.

The modes, transmission/reception and wide/narrow of this filter are selected by Q36-Q46, D79, D80, D82, D83, D84.

e. The Second IF Ampilfier Circuit

After passing through the filter, the signal is led to the transmission/reception switching diode D49, and amplitted in Q23 and Q24, then buffered in Q25.

The AGC voltage is applied to the second gate of Q22, Q23 and Q24.

The output level of Q25 is fixed because the AGO votage is added to the receiving signal.

This output signal is used for the demodulation in SSB, AM and CW modes and AGC detection.

Ir the FM mode, after passing through the transmission/reception switching diode of D49, a part of receiving signal is fed to IC7(MC3357) from C221, then it is IF- amplified and demodulated. C214 is connected in parallel to the feedback resister R182, and the resister is de-emphasized. Even in the FM mode, Q23, Q24 and

f. Demodulation Circuit

Q25 are active, also AGC is operated.

In SSB and CW modes, the following local oscillating frequency is supplied from PLL unit to IC3 balanced mixer, then the signal is demodulated.

The receiving signal is fed to Pin1, and local oscillation Pin3, then picked up the demodulation output of approximately 100mV from Pin7.

USB 466.5kHz + iF SHIFT LSB 453.5kHz + iF SHIFT CWU 455.8kHz + iF SHIFT CWL 454.2kHz + iF SHIFT The output is led to the switching circuit of each mode, and to the CW audio filter. In AM mode, the signal is detected in D51, then led to IC5.

In FM mode, the signal is demodulated and de-emphasized in above-mentioned

IC7, then led to IC5.

g. CW Audio Filter

IC4 is the active filter, which consists of the combination of low-pass filter and high-pass filter in the operational amplifier. It has the band width of about 600Hz (-6dB) centering the frequency of about 800Hz.

h. AF, AGC Time Constant Selection

ICS is the analogue multiplexer which has 2 circuits with 4 contact points, and switches the demodulation output in every mode and AGC time constant. The voltage combined in D55 and D56 is input to Pin9 and Pin10, then the output of IC3 (SSB, CW-W), the modulation output of FM/AM and CW audio filter output (CW-N) are selected. The voltage of 8V is applied to Pin6 (INH/BIT) when transmitting, and the modulation output is turned OFF unconditionally.

i. AF Amplifier

The voltage that can pass through the analogue switch of IC5 is very low. The voltage is amplified approximately 20dB in IC12: B to get higher AF input voltage to following IC13 (voltage controlled electronic volume). Also a part of this output is picked up and output to Pin6 of microphone as non-squelched audio output. This output is used as the terminal of packet, RTTY, SSTV, etc.

j. Electronic Volume, AF Amplifier

IC13 is the dual electronic volume controlled by the voltage.

The volume is controlled by the AF GAIN VR on the front panel. Pin5 is the control terminal. The value of the attenuation is the minimum when the control voltage is about 3.4V, and the value is 90dB or more at maximum when the control voltage is about 3.1V.

One of the circuits is for volume control of the demodulation sound, and the other for the volume control of the beep and sidetone. The beep and sidetone can be heard even if the volume is set to the minimum point and sound tone is related with AF GAIN VR.

The squelch circuit (IC14:A, Q14) controls Pin5. The output of IC14: A activates to close the squelch when transmitting, so Q14 is turned OFF in D85 to control the volume of the sidetone.

The receiving sound is led to Pin6 and applied from Pin7. As for the beep and side tones, Pin2 is for input and Pin1 for output. These two outputs are combined with the input of LPF amplifier IC12.A. The high tone noise that is generated in IF amplifier is decreased by LPF amplifier.

The output of IC12: A is attenuated in R309 and R310 to get the same level with IC20, and also to decrease the noise. IC20 is the AF power amplifier which can get the output of 2W or more (THD 10%) at 8 α load. The ripple filter consists of Q51 and C260.

k. AGC

The AGC voltage is supplied one stage to first IF amplifier and three stages to second IF amplifier. These IF amplifiers consist of 35K131. AGC voltage is applied to the Gate2. The IF amplifiers are designed that the gain is changed linearly corresponding to the AGC voltage.

D53 and D54 are the rectifier, and Q28 is DC amplifier. D50, the anode is set to about 2V in R176, D110, D111 and R177. Usually AGC voltage is applied 2.4V. The strong signal rectifies D53 and D54 resulting in DC voltage. Q26 decreases the AGC voltage.

When AGC-FAST is selected in SSB/CW mode, C205 and C206 are connected between 5V and AGC line in parallel. The attack time of AGC is determined in R167 and C206, then the release time is determined in R168 and C206. The characteristics are "fast attack" and "slow release". In case of AGC-SLOW, the analogue switch IC6 is turned ON, then R175 and C287 are connected in parallel. The release time is lengthened because of C287. In case of AM, C206 is connected in parallel, then the attack time is delayed, which is the average type. D110 and D111 is the thermal compensation of D50.

In receiving AM, AGC is the average type not to follow the modulation.

1. S Meter, Squelch

The output of Pin1 and RF meter output are combined in the diode, then it is sent to the front CPU to display the meter. The output signal of Pin1 is fed to Pin6 of IC14:A. The voltage of Pin5 is determined by the squelch VR of front unit. Comparing with this voltage, the squelch is opened or closed.

While the check operation the CPU output decreases the voltage of squelch VR in front side to open the squelch forcedly. The squelch output controls IC13, at the same time it is provided to the front unit to light RX LED and led to CPU unit.

m. Noise Blanker Circuit

This circuit eliminates the pulse noise of a car, etc. Because the noise emitting time is short, in this duration the operation of receiver is stopped to prevent the unit from emitting a noise. The pulse noise is delayed when it is passed through the narrow band filter, and the emitting time becomes longer. It makes difficult to eliminate the noise, so it is necessary to eliminate the noise in the earlier stage. A part of the second mixer output, whose band width is limited, is amplified in Q20, Q19, Q18, and Q16. The signal is detected in D33 and D34, and the AGC voltage is applied to Q19, Q18 and Q16.

The charge time constant of this AGC is determined by R82 and C128, and also the discharge constant is determined by R81+R82, C128. The voltage of AGC does not rise suddenly because of the charge constant, so that this voltage is not applied to almost all the short signals such as pulse noise, but is applied to the continuous signals such as receiving signal and amplifier gain is decreased. While emitting the pulse noise, the AGC voltage does not follow the pulse noise, so the defected voltage is high, then Q15 is turned ON in that time. On the contrary, as for the continuous signal, the cetected voltage of D33 and D34 is fixed by AGC, so Q15 is turned OFF because of the emitter bias of R85 and

nost.

Namely Q15 is turned ON only the time of the pulse noise, then Q21 is turned OFF. The source of IF amplitier of Q22 is biased through R98 and R102 so that the gain is decreased and the signal is blanked. When the emitter of Q15 is biased to high, the Noise Blanker is turned OFF.

2. Transmitter System

1) Main Unit

a. Microphone Amplifier

The input signal from microphone is amplified by the low noise amplifier Q56 through the mic gain VR1. It is possible to bias (8V) the microphone terminal with R388 for the microphone which needs the power supply. (solder bridge) In SSB/AM mode, The gain of IC21 (approx. 15dB) is determined by R329 and

In FM mode, R330 is connected to R320 in parallet by Q55, then the gain is increased approximately 34dB. Also the cut off frequency is risen, and the signal is pre-emphasized and operated as a limiter.

In the SSB/AM mode, C345 and R384 are connected to the feedback circuit by Q63 when the speech compressor is turned ON. The gain is increased about 15dB, then IC21:8 is consisted as the limiter.

15dB, then IC21:B is operated as the limitter. When the speech compressor is ON, the low frequency is cut by C345.

In FM mode, the gain is risen enough, so the speech compressor has no effect. The output of Pin1 of IC21: B is attenuated in R326 and R325. The subaudible tone from PLL unit is applied through R325. (When the Tone is ON.) IC21: A is LPF amplifier that is the Splutter filter in FM mode, and it is operated for

This signal is output to PLL unit as the FM modulation, and output to the balanced modulation of IC2.

speech compressor

The output to IC2 is muted by Q54 in CW/FM mode.

b. Balanced Mixer

IC2 is the balanced mixer, and the carrier is suppressed in SSB mode. To get more ratio of carrier suppression, the balance adjustment of VR3 and VR4 are applied.

The carrier is necessary in CW/FM/AM mode, so the input of Pin1 is made unbalanced by applying the DC voltage to obtain the carrier.

By applying the DC in AM/FM mode, or by keying in CW mode, the balance is broken to obtain the carrier wave. VR11 is used for the adjustment of carrier level, in the AM mode, the DC and modulation is added simultaneously. In SSB mode, the modulation is added by R317. In AM mode, D93 is DC-biased and turned ON. Then the attenuator consisting of R317 and R393 limits the modulation.

c. IF Filter

After the output of IC2 increases the impedance in C177 and L77, it is passed through D49 and led into band limit IF filter. D52 is isolated highly by connecting to the output in parallel at receiving. In SSB mode, the output is DSB signal. (Double Side Band)

The filter is switched by the selection of above-mentioned diode switch. The signal is passed through the following filter in each mode.

4.5kHz/-60dB	3.0kHz/-60dB	20kHz/-50dB
2.4kHz/-6dB	1.0kHz/-6dB	9kHz/-6dB
FL3(CFJ455K5)	FL2 (CFJ455K8)	FL4 (CFW455G)
SSB	CW	FM, AM

SSB is obtained by eliminating one of side bands of DSB through the filter.

d. IF Amplifier, The Second Mixer

through the second mixer in the opposite direction of the receiving, then the signal After passing through the filter, the signal is led to D37, Q7, and D6, and passed of 71.75MHz is obtained. Q6 operates the CW keying.

The voltage of ALC is added to the second gate of Q7.

FL1: A and FL5. The signal is amplified in Q5, passed through FL5, then led to the The local oscillating signal of 71,295MHz and unwanted signal are eliminated in palanced mixer of Q3 and Q4.

e. The First Transmitting Mixer

This mixer is the balanced type, and the unwanted signals (IF and local oscillating signal) are decreased. The best operation is selected by biasing the second gate. To decrease the spurious, the signal is balanced in VR1.

f. Power Amplifier

Passing through the mixer, the transmitting signal which has the desired transmitting frequency is passed after switching the LPF for HF band or BPF for 50MHz band. The unwanted signal and especially the leak of local oscillating signal is decreased as less as possible.

The signal is amplified up to 0~3dBm in Q1. T notch filter consists of C1, C2 and L1. It is tuned to approximately 44MHz while using 50MHz band to decrease the spurious signal. Then the signal is supplied to PA unit.

2) PA Unit

a. Power Amplifier

current of Q601 flows about 100mA during transmitting as A-class amplifier. The frequency characteristics are compensated by feedback, besides connecting the The signal input to PA unit is amplified up to approximately 100mW. The idling capacitor to emitter resistor in parallel.

The signal is amplified up to 10W in Q602 and Q603.

PA amplifier is the wide band range from 1.8MHz to 50MHz

The idling current flows 100mA (adjusted in VR601), and the amplifier is the pushpull type.

D601 is connected to Q602 and Q603 thermally, and the idling current is compensated for temperature. This output is switched at RL601 in 50MHz, then supplied to filter unit.

b. Final Stage Power Amplifier

and D605 are connected to Q604, Q605 and Q606 thermally, and the idling current idling current of about 300mA is flowing. The base bias is made by Q606. D604 In the final stage amplifier circuit consisting of Q604 and Q605 (2SC2904), the is compensated for temperature.

The feedback circuit, consisting of R621, R622, R623, C633, R627, R628 and C637, makes the gain flat in the wide range of 1.8MHz~30MHz.

The 100W output is led to filter unit.

The collector current of Q606 and Q607 is detected by using FB606 and L611. Then led to the main unit.

c. Fan Control

ON by the output voltage of comparator, IC601: A. Then the fan starts turning at a compared voltage becomes lower than the inverting input voltage, Q607 is turned The heat of Q606 and Q607 is detected by the thermistor TH601, and the fan is controlled. While transmitting, the resistance value is decreased by the rising of the temperature, then the voltage of inverting input terminal of IC601A/B is decreased. Non-inverting input is applied with the voltage corresponding to the temperature. When the temperature goes up to about 50°C or more and the low speed by the value of series resistor (R639).

When the temperature rises more and the voltage becomes much lower than the the fan turns at a high speed according to the value of series resistor of R640 to compared voltage IC601: B, Q608 is turned ON. Then R639 is turned OFF and decrease the compared voltage of IC601; A.

transmitting. The temperature, at which the fan turns at a middle speed or more, is D608 become LOW when the fan turns at a high speed. Then the signal is sent to parallel to turn the fan at a higher speed. Although ordinary PDWN is pulled up to higher than it while transmitting. At high temperature, fan's turning speed comes 14V by R637, the power output is set to LOW because both cathode terminals of further lower, IC601: A supplies again, then R639 and R640 are connected in IC601:B does not work if the temperature does not go up higher than it while When the temperature goes up to about 100°C and the voltage is decreased As the compared voltage of IC601: B is decreased in D611 while receiving, the main unit as the control signal for power down at high temperature. down while receiving.

For the protection of the final power amplifier, the followings are equipped: SWR detection

d. Protection Circuit

Protection against over current

Power down circuit for the temperature detection

As the base voltage of main unit Q49 goes down to LOW by CW keying, the

e. CW Keying Circuit

voltage is supplied to collector. This output controls all of the circuit operation by balance is broken by applying DC voltage to the balanced mixer to generate the The collector output of Q49 is passed through D95, VR11 and D93, and the

carrier. VR11 determines the CW waveform of rise and fall by adjusting the carrier

The voltage is applied to IC17: B Pin5 in D95, and the output of Pin7 turns Q46 ON constant. BK1, BK2, and BK3 are the voltages for the setting of 3-bit break-in time constant. 8 stages voltage is obtained by the combination of the resistors R269, to set PTT line to LOW in D73, then the unit enters the transmitting mode. The capacitor (C246, C247) is connected between Pin5 of IC17: B and the ground. The holding time of transmitting is determined according to the discharge time At the same time Q48 is turned ON to turn OFF Q6 for keying isolation. C244 makes the OFF time of Q6 longer not to influence the keying waveform. level in R285 and C248.

In the Full Break-in mode, all of BK1, BK2 and BK3 are set to LOW, in the Semi Break-in mode, one of BK1, BK2, or BK3 is applied the voltage.

When all of the breakers are applied the voltage, it is used as the shortest time

When in the full break-in mode, all of the voltages of BK1, BK2 and BK3 are low level, and O47 is turned OFF. Therefore only C246 is the very short discharge constant, it is the full break-in mode with short transmitting time. One of BK1, BK2 and BK3 is supplied the voltage, and Q47 is turned OFF, then connected to C247 and C246 in parallel. The discharge time constant is longer, and it is the semi break-in time constant.

There are 7 stages of the voltage in the semi break-in mode according to the output voltage of BK1, BK2 or BK3. This is applied to the compared voltage of IC17: B, then the discharge time constant is changed. Namely when the voltage is applied to all of BK1, BK2 and BK3, the time constant is the shortest.

When the break-in mode is set to AUTO, BK1 only is supplied, and the compared voltage of IC17:B is controlled by the output voltage of IC17: B.

In the AUTO mode the keying output is emitted by one-shot multivibrator consisting of IC18A and B whenever the key is pressed. Therefore the average value of the output voltage of IC18. A is in proportion to the average speed of keying. To obtain the average voltage in R281, C245, etc., integrate the voltage. Then this output is D/C amplified in IC17.A, and provided as the compared voltage of keying, D97 is used for OFF in the AUTO mode. When the AUTO mode is in the LOW level. The voltage charged in C245 is short, then the operation in AUTO mode is

D107 and R360 are used to get up speed rising when the keying is started. D92 and R280 determine the discharge time constant. While receiving the time constant is prolonged.

The selection of transmission/reception follows the keying speed from 30 letters/minute to 200 letters/minute.

The transmitting mode is held between letters, and the unit returns to receiving mode between words.

f. Power Control, ALC Circuit

The forward wave voltage in proportion to the transmitting power obtained in filter unit is inverting-input to IC8.A, and inverting-amplified. Non-inverting input is applied the voltage, and the output voltage is shifted by the non-inverting input voltage.

ALC line is applied the voltage of about 2.7V beforehand, and the ALC voltage is supplied to the second gate of the amplifier.

When the forward wave voltage is detected, the output voltage of IC8: A is decreased. If it is about 3V or below, the ALC line voltage is decreased by D63. VR7 is used for the adjustment of 100W. When the unit is switched to 50W by S1, Q27 is turned ON and VR5 is connected in parallel to decrease the voltage, then the unit is adjusted to 50W.

In AM mode, R195 is connected in parallel to decrease the voltage up to about 40W.

In the low power mode, R191 is connected in parallel by setting to LOW, and the voltage is decreased.

Q29 and VR8 are used for the adjustment to get the required power of about 10W in the matching operation of external automatic tuner. (The required power depends on the tuner.)

When the value of SWR is high, the reflected wave voltage turns Q28 ON to decrease the power. The unit is operated when the SWR is about 3 or more.

Compared with the forward wave detection power in HF band of 100 W, the forward wave voltage in 50MHz band of 100W is set to higher a little. In SSB mode, "fast attack" is obtained by D63, and the release time of "slow attack" is obtained by C222 and R130. In AM mode C221 is connected in parallel by Q30, and the unit is operated in near the average value.

g. Over Current Protection Circuit

The final stage collector current which is detected in PA unit is differential-amplified in IC8: B. The output voltage is decreased according to the increase of the current. Then ALC line is fallen by D63 and the output power is decreased. The operational point is decided in VR6.

h. RF Meter Circuit, ALC Indication

The forward wave is amplified in IC9: A to obtain the meter output voltage. The peak is held in D70, R223 and C223, and the meter swings smoothly. Meter output voltage and S meter output voltage are switched in D71 and D86 automatically.

ALC voltage is inverting voltage amplified in IC9: B.

This output is applied to the base of Q31, then sent to front unit for the detection of transmission/reception and lighting the transmitting LED. The LED brightness is changed according to the ALC voltage.

i. Sidetone Circuit

The comparison frequency of the second local oscillator in PLL unit (65kHz~85kHz) is divided by 10 in IC714, then led to the main unit. In addition the frequency is divided by 10 in IC19 of the main unit to obtain the sidetone of 650Hz-850Hz. The comparison frequency of the second local oscillator is changed according to the CW offset setting. To relate with the sidetone, comparison frequency is about 100 times the CW offset. IC19 Pin2 is controlled by Q65 at CW frequency is about 100 times the CW offset. IC19 Pin2 is controlled by Q65 at CW sing. The time constant is delayed not to give the influence to waveform of the sidetone.

The following active filter O50 makes the square wave to sine wave to obtain better sound. The rise/fall wave of the sidetone is generated by keying controlling the bias of base and emitter.

j. Tune Circuit

When using the external automatic antenna tuner, this circuit controls the matching start signal and the operation of the unit during tuner matching.

When the tune operation is started, the Tune voltage is supplied to operate the one-shot multivibrator in IC18: C, D. The voltage of about 8 V is applied to outside for a fixed time through Q52 as the start signal. In the other hand, Q53 supplies the tune voltage of sink output, it becomes LOW while tuning. (For the transceiver

made by ICOM, KENWOOD).
As soon as the tuner receives the tune start signal, the tuner provides it as the tuning signal. (TKEY terminal)

CPU observes the TKEY terminal, and keeps the unit in TUNE mode indicating that the tuner is operating while it is in the LOW level. CPU releases the TUNE mode when TKEY terminal is in LOW for 20 seconds or more. In the Tune mode the unit transmits a signal in AM mode, the microphone output is muted, then the carrier is kept on outputting about 10W (adjustable).

k. Regulated Power Supply Circuit

nected to the ground through the microphone terminal or CW keying output (Q46), IC11 is the 8V Reguiated Power Supply Circuit. T8V that is necessary for transmitting is made in Q33, and R8V that is necessary for receiving is made in Q35. IC10, Q32 and Q34 control the transmission/reception. When PTT line is con-H level is supplied from IC10: A and it is led to CPU of front unit to detect the fransmission/reception switching.

IC10: C delays the rise of receiving in R227, C224 and D62 and controls in Q32

While receiving, the current is flowing from 13.8V through R230 and D75, then the While transmitting, the base voltage of Q33 is 0V because Q32 is turned ON, and base voltage Q33 is approximately 8.7V, and the emitter output is just 8V. R8V is not provided.

While transmitting RBV is short by D77, and it makes the charge voltage such as electrolytic capacitor discharge momentarily not to remain R8V.

just 8V while receiving. While transmitting, the base voltage is 0V because Q34 is D75, then the base voltage of Q35 is approximately 8.7V and the emitter output is As for Q35, as same as R8V the current is flowing from 13.8V through R230 and turned ON, and T8V is not provided.

While transmitting TBV is short by D77, and it makes the charge voltage such as electrolytic capacitor discharge momentarily not to remain TBV

After delayed the transmitting rise time in IC10:B, the signal is inverted in IC18:D, then T8V is controlled in Q34.

When Pin8 IC10:A is supplied the voltage, the unit enters PTT lock mode without changing the output of Pin10 even if the PTT line is connected to the ground.

1. Mode Voltage, Function Control

(BPF/ LPF Selector)

The enable terminals of IC15 and IC16 select the signal ENX or ENY by using IC24 and Q62.

The data from CPU (DAT2) consists of 16-bit serial data, two 8-bit shift resistors are connected in series.

IC22 and IC23 control the band selection, ON/OFF of preampitier, ATT, power, TX mute function, etc. They are operated in Low level.

IC15 controls the Mode voltage, and IC16 controls filter, AGC, Break-in, PTT lock, and Noise blanker. The voltage of every mode (USB, LSB, AM, CW, CWU, CWL, FM, TUNE) turns ON Q41, Q42, Q43 and Q44 to supply 8V.

is short at the relay contact.

Input/Output of this filter is switched by the relay, and Input/Output of unused filter HF supplied from PA final stage eliminates harmonics through LPF of filter unit.

Every LPF consists of Chebyshëv filter, and double or more harmonics are LPF control is used the BPF control voltage of the main unit.

3.5MHz band 1.8MHz band BB0, BB1 882 ~ 2.5MHz 2.5MHz~4.0MHz attenuated about 40dB or more. 9 2 2 3

10, 14MHz band

7MHz band

BB3 BB4, BB5

7.5MHz~14.5MHz

7

4.0MHz~7.5MHz

14.5MHz~21.5MHz BB6 21.5MHz~30.0MHz BB7 4 5

18, 21MHz band 24, 28MHz band

led to power detection circuit and supplied to HF antenna terminal passing through The transmitting signal, whose spurious is eliminated by passing through LPF, is the selection relay.

n. 50MHz Transmission/Reception Selector

Both D508 and D509 are turned OFF while receiving, the receiving signal from the 50MHz band performs the transmission/reception selection by the diode of D508 antenna terminal is passed through LPF (L520, L521, C570-C574, L518, C565) and D509. It is supplied to antenna terminal of 50MHz through LPF. and HPF (L516, C562~C564), then amplified in Q503.

Q501 and Q502 are turned ON while transmitting, and D508 and D509 are turned ON then the transmitting output is passed.

The antenna input of receiving circuit is short because D509 is turned ON. Also as the parallel resonant circuit consists of L518, D508, etc., the transmitting signal does not influenced.

o. Power Detection Circuit

detection circuit. LPF makes the standing wave, so the circuit is located before the LPF in 50MHz band whose spurious specification is severe, and after LPF in HF The harmonics are sometimes generated depending on the using diode in the The each power detection circuit is equipped with HF band and 50MHz band.

From now on the operation in HF band is shown, and in 50MHz band the operation is the same.

L534 is 10-turn billiar of toroidal core (twisted pairs of AWG). Therefore the both sides are 20 turns with center tap.

Piercing the center hole of the core means the same with 1 turn. So the transformer is 1:20.

output voltage, and R509 is applied the voltage (reflected wave) according to the reflected power. The output power and reflection detect the power to control the Therefore R508 is applied the voltage (forward wave voltage) according to the power in the main unit.

p. Dial Rotating Detection

The pulse generaled by the rotation of the main dial is eliminated the chattering in IC1001: A, B. IC1001: A and B are the Schmitt triggers by the feedback from the

number is doubled. Then it is 4 times the pulse number because of synthesizing in The rise and fall of each output is differentiated in IC1002:A, C, so the pulse IC1001; C.

To find the rotation direction, it is detected in IC1002: B and IC1003 and fed to CPU. As S1002 generates 50 pulse at 1 rotation, what is input to CPU is 200 pulse/rotation, and 5kHz/rotation in 25Hz step.

the pulse number stored in IC1004, then the process is finished, the pulse number divided in IC1004, and the pulse number is stored as the 6-bit binary digit by each dividing output. At a high speed rotation the frequency is forwarded by counting The main dial rotates very fast and generates so many pulses. The pulse is

8

stored in IC1004 is reset by the output from CPU.

The dial rotation pulse is charged in D1016, R1022 and C1010, and the average voltage according to the speed is obtained. When the dial rotation speed is fast, the frequency step per pulse is four times that at normal speed.

3) Front Unit

a. Power Switch

starts operation, the output from PCONT of CPU turns Q1006 ON to hold ON the When SW1001 is pressed, Q1001 is turned ON, then the contact of RL602 in PA unit is turned ON to supply the voltage of 13.8V to the front unit. Once the CPU relay of RL602.

When SW1001 is kept pressing while the power is ON, the signal is detected in PSDET, and the Q1006 is turned OFF to cut OFF the power supply.

b. Power Supply

IC1006 is the regulated power supply of 8V which generates the required voltage IC1007 is the regulated power supply of 5V which has the output for CPU reset. for IF shift and volume controf.

power supply of 5V is decreased and the unit is reset. D1019 and C1002 are used to hold the output voltage of 5V by keeping the input voltage of 5V regulated power When the power supply is cut OFF, the output of regulated power supply of 8V is CPU the data is stored in the EEPROM of IC1005 before the output of regulated increased first, and it is detected in D1018 and IC1002:D, then sent to CPU. In supply as long as possible.

c. Dimmer Circuit

The regulated power supply of about 10.5V consists of Q1003, Q1004 and Q1005 Q1003 supplies about 10.5V when the DIMM output from CPU is 5V.

In CPU unit, DIMM is the pulse output, and it switches ON/OFF of the output of

about 10.5V.

and in "LP 3 " mode the duty is 60%. In this way the brightness is changed by the At full lighting the output from CPU is fixed to 5V. In "LP4" mode the duty is 80%

(6.3V x 2) to prolong the life of the lamp. The rush current when the lamp is turned Q1003 is supplied the current by turning ON/OFF. At the maximum the brightness is the lightest, and the duty is decreased according to the dimmer, then the power dissipation is decreased. The dimmer can be operated by the small transistor. The maximum brightness is 10.5V, and it is set to under the regulation voltage ON is in pulse mode to decrease the load on the lamp. duty in Q1003

d. LCD

The LCD indication employs the frame frequency of about 128Hz, 1/2 DUTY and The indication such as frequency that is required the speed is performed by the CPU itself, and the other indications are performed by the LCD driver of IC1009. /2 bias.

X1001 is the ceramic resonator of BMHz selected not to enter the amateur band in the harmonics relations.

e. Others

When the power is ON, the voltage is supplied from Y2 and Y3, to detect whether

it is connected to the outputs DB0~DB6 or not, then the destination is determined. The currents in Y0 and Y1, and between D8~D86 are scanned to detect which switch on the front panel is pressed. The both sides of RIT VR are applied 5V, and the location of VR is detected by the voltage of A/D input terminal.

In the Receiving frequency manitor Q1019 is turned ON by the MONI output from CPU, the squelch setting voltage programmed by turning the knob on the front panel is decreased forcedly. Then the squelch is open forcedly without any relation with VR position. The output from the main unit (RTXC) lights the LED according to the change of the ALC voltage. The output cannot be supplied as it is, so it is changed to ON/ OFF signal in Q1009.

Q1011 is the squelch output from the main unit, and it lights RX LED.

4) PLL Unit

Summary

The followings are performed in PLL unit:

The generation of the first and second local oscillating signal The generation of carrier signal

The generation of sidetone CTCSS

Adding the FM modulation

Making the power supply of 5V

(1) There are 3 kinds of power supply as follows:

Details

The voltage of 13V passed through the switch

The voltage of 8V made in the MAIN unit

The voltage of 5V made in the PLL unit

(2) First the reference signal of 30MHz is generated in X701 and Q701 according Power supply depending on the MODE comes from the main unit. to the constant of TC701 and L702.

(3) Secondly the signal of 9.420MHz +/- 1.5kHz is generated by the voltage of D706 in X702, Q721 and Q722.

constant of TC702-TC704, C807, C809, C810, C811 and C812 in Q725 and (4) Thirdly the signal of 9.875MHz +/- 1.5kHz is generated according to the

(5) The frequency of 9.875MHz is changed according to the MODE, transmission/ reception

Transmission/Reception of LSB)

CN701 Pin21 (LSB) is applied the voltage of 8V and the signal is passed through D714, then results in the frequency of 9.8735MHz according to the constant of TC702 and C812. Also (LSB) 8V is passed through D718, and the voltage is applied to Q723 to emit the carrier signal.

Transmission/Reception of USB]

CN701 Pin26 (USB) is applied the voltage of 8V and the signal is passed through D711, then results in the frequency of 9.8765MHz according to the constant of TC704 and C807. Also (LSB) 8V is passed through D717, and the voltage is

applied to Q723 to emit the carrier signal.

[Reception of AM/FM/TUNE]

CN701 Pin20 (FM) or CN701 Pin22 (AT) is added the voltage of 8V and in the FM mode the signal is passed through D708, then results in the frequency of 9.875MHz according to the constant of TC703 and C811. Q723 has no voltage, and carrier signal is never emitted.

[Transmission of AM/TUNE]

CN701 Pin22(AT) is applied 8V and results in the frequency of 9.875MHz according to the constant of TC703, C811.

The voltage of 8V from CN701 Pin23 (T8V) is passed through D718 to add the voltage to Q723, then the carrier signal is emitted.

Transmission of FMI

CN701 Pin20 (FM) and CN701 Pin23 (T8V) are added the voltage of 8V, the Q729 and Q733 are turned ON. 8V voltage of CN701 Pin20 (FM) is passed through D708, Q733 and D714, then results in the frequency of 9.8735MHz according to the constant of TC702 and C812. Here FM is passed through AT and R814 to turn ON C811, however, as Q733 is also turned ON, Q727 is turned ON and C811 is shorted.

The voltage of 8V from CN701 Pin23 (T8V) is passed through D718, and led to Q723 to emit the carrier signal.

The voltage of BV from Q733 turns ON the analogue switch of IC715.

The modulation signal is passed through R798, IC715, R796 and C801, and it is FM-modulated in VCO2.

[The Transmission of CWU/CWL]

CN701 Pin24 (CWU) or CN701 Pin25 (CWL) is supplied the voltage of 8V, then it is passed through D716, D732, Q716 (because Q729 is ON) and R814, then results in the frequency of 9.875MHz according to the constant of TC703 and

Although here CWU tries to turn C810 ON or CWL tries to turn C809 ON, it can not be done through D715 because G729 is also turned ON.

[The Reception of CWU]

CN701 Pin24 (CWU) is supplied the voltage of 8V, passed through D712, then resulting in the frequency of 9.8758MHz of frequency according to the constant of TC703 and C810. Also the voltage of 8V from CN701 Pin24 (CWL) is passed through D716 and D717 to the Q723, then the carrier signal is emitted.

[The Reception of CWL]

CN701 Pin25 (CWU) is supplied the voltage of 8V, passed through D712, then resulting in the frequency of 9.8742MHz of frequency according to the constant of TC703 and C809. Also the voltage of 8V from CN701 Pin25 (CWL) is passed through D716 and D717 to the Q723, then the carrier signal is emitted.

(6) The frequency of 9.42MHz can be changed only while receiving by the IF shift volume on the front panel.

The voltage supplied to CN701 Pin14 (SHV) is changed by the IF shift volume, and

the capacitance of D706 is also changed, then 9.42MHz is changed. The center frequency of the IF shift volume is determined by VR702.

While transmitting Q715 is turned ON by T8V to eliminate the influence by SHV and VR 701, then the frequency is decided only by VR701.

In USB CN701 Pin26 (USB) and CN701 Pin15 (TONS) are supplied the voltage of 8V. As in UT mode TONS becomes the sink, Q735 is turned OFF and USB is supplied 0V, then Q730 is turned ON and a terminal of R767 is connected to the ground to decrease the voltage of D706, beside the frequency of 9.42MHz is decreased about 300Hz less while receiving and about 100Hz less while receiving and about 100Hz less while transmitting than the value in USB mode.

In the same manner, in LSB mode the voltages of CN701 Pin21 (LSB) and CN701 Pin15 (TONS) are 8V. As in LT mode TONS becomes the sink, Q735 is turned OFF and D729 is supplied the voltage by R767. Then voltage of D706 is increased. Beside the frequency of 9.42Hz is increased about 300Hz more while receiving and about 100Hz more while transmitting than the value in LSB mode.

(7) The Emission of 455kHz Carrier Signal

The above-mentioned 9.875MHz signal is input to Mixer IC712 Pin6, and 9.42MHz signal is input to IC712 Pin8. The difference frequency of 455kHz is output from IC712 Pin3 and sent to the MAIN unit from J701 atter amplified in Q723. The Output level is approximately -54B.

(Frequency Relations depending on the Mode)

USB(TX HX)		9.8765MHz - 9.42MHz (**) = 456.5KHz (**)	= 456.5kHz (**)
LSB(TX RX)	FM(TX)	9.8735MHz - 9.42MHz (**) = 453.5kHz (**)	= 453.5kHz (**)
CWU CWL AM TUNE (TX)	JNE (TX)	9.8750MHz - 9.42MHz	= 455.0kHz (*)
CWU(RX)		9.8758MHz - 9.42MHz (*)	= 453.5kHz (*)
CWL(RX)		9.8742MHz - 9.42MHz (*) = 453.5kHz (*)	= 453.5kHz (*)
UT(RX)		9.8765MHz - 9.4197MHz (*) = 456.8kHz (*)	= 456.8kHz (*)
LT(RX)		9.8735MHz - 9.4203MHz (*) = 453.2KHz (*)) = 453.2kHz (*)
UT(TX)		9.8765MHz - 9.4199MHz	= 456.6kHz
LT(TX)		9.8735MHz - 9.4201MHz	= 453.4kHz

AM FM (RX) does not output

(**): While receiving IF Shift Operation (+/- 1.5kHz)

IF Shift Operation (+/- 1.5kHz)

(8) The Second Local Oscillating Signal

In VCO2 unit, after the frequency of 71.295MHz is oscillated in Q941 and amplified in Q949, Q944 and Q945, the signal of approximately 3dB is supplied to MAIN unit through J702 as the second local oscillating signal.

The signal for PLL loop is supplied from Q942 to PLL unit.

The signal of 71.295MHz is fed to Mixer IC711 Pin7 and the signal of 9.42MHz is fed to Pin3, so that the deference frequency of 61.875MHz output from Pin6 only is picked up by Q711, L712 and L711, and fed to PLL IC707, then locked at

61.875MHz. Therefore, by rotating the IF shift volume, 9.42MHz, and also 71.295MHz are The frequency of 30MHz is fed to IC707 through Pin1, and it is divided to get the following frequency as the reference frequency, and also the frequency of

61.875MHz is divided to get the reference frequency, then these two frequencies

The reference frequency changes according to the CW sidetone frequency.

When the sidetone frequency is 650Hz, the reference frequency is 64.655kHz. When the sidetone frequency is 750Hz, the reference frequency is 75.000kHz, When the sidetone frequency is 850Hz, the reference frequency is 85.227kHz.

(9) The First Local Oscillating Signal

and passed through the switching diode D725 and D726, then band-pass filter and In the HF mode, the frequency oscillated in VCO3 is amplified in Q710 and Q714, RL701. The signal of approximately 3dB is led to the MAIN unit from J703.

3 VCO's are built in VCO3, and it is oscillated under following frequency condi-

150kHz~under 10.5MHz;

The VCO is oscillated within 71.90~82.25MHz by D961, TC961 and Q961. 10.5kHz~under 21.5MHz: The VCO is oscillated within 82.25~93.25MHz by D963, TC962 and Q963 21.5kHz~under 30.0MHz:

The VCO is oscillated within 93.25~101.75MHz by D965, TC963 and

These 3 VOC's are selected by the serial data of DAT2, CK2 and ENB from CPU. 8 signals from IC716 are reduced up to 3 signals, then VCO is selected by the switches of VCO3, Q962, Q964 and Q966.

frequency within 121.75~125.75MHz is generated. It is passed through RL701 by 45MHz by the DBM (Double Balanced Mixer) in L729, L730 and D730, then the When the frequency is 50MHz, in VCO3 the oscillated frequency within 76.75 $^{\sim}$ the band-pass litters of L732, L733, L734 and L735 and Amplifier of Q731 and 80.75MHz by D961, TC961 and Q961 are synthesized with the frequency of Q716, then the signal of approximately 3dB is output to J703.

The frequency of 45MHz is generated as follows: The reference signal of 30MHz is amplified in Q719 and fed to IC701 Pin3, then one half of the signal is supplied from Pin5. 3 times frequency of the signal only is passed through the filter L720, L721 and L722, and fed to the center tap of L729, then led to DBM.

passed through Q712 and input to the mixer IC709 Pin6, also the signal of 70.65~ The frequency loop of VCO3 is looked as follows: VCO3 oscillating frequency is passed through the amplifier Q713 and led to PLL IC702 Pin8 as the difference 70.75MHz (25Hz step) is fed to IC709 Pin8. Then the signal of 1.1~31.1MHz

This frequency is locked by the following procedure.

quency, and divided to obtain 100kHz. Then the frequency is locked after comparing with the reference frequency 100kHz. See the examples as shown below. 1.1MHz is added to the digit number of 100kHz or more of the operation fre-

Operation Frequency: 1MHz

PLL The frequency fed to IC702 Pin8:

2.1MHz

Operation Frequency: 29MHz

--> PLL The frequency fed to IC702 Pin8:

30.1MHz

Therefore, as the reference frequency of IC702, the reference frequency of 30MHz is divided up to 100kHz inside the unit.

in IC702, the operation frequency of 100kHz or more only is controlled.

ON. Q709, RL701, D724 and D724 are turned ON, then D730 is ON and Q724 is of 8V. The power supply of Q731, Q716 is turned ON. Q709 and D730 are turned in 50MHz band, CN701 Pin1 (50M) is sink, Q732 collector is supplied the voltage

The deviation while transmitting is 5kHz/DEV, and 2.5kHz/DEV while HF/FM transmitting

ON. IC710 Pin4 is supplied about 0.7V so that the operation of IC710 is stopped. In the HF mode, Q717 is ON, and D725 and D726 are turned ON, then D735 is

IC707, the voltage of 8V is supplied from the collector in Q728, and Q718 is turned ON so that Q714 is turned OFF, then the level of J703 is decreased about 30dB or When the unlock signal is emitted from every Pin7 in PLL IC IC702, IC703 and

(10) 25Hz Step 70.65~70.75MHz

and divided by 20 in IC704, and supplied through Q933. Then the signal is divided In VCO1 Unit, to generate 25Hz step of the first local oscillating, Q931 is used to by 10 in IC705, and the frequency of 775~875kHz (25Hz step) is fed to the mixer oscillate the frequency of 155MHz~175MHz, the signal is passed through Q932 IC701. Therefore, the operation frequency of 100kHz digit or below can be operated in 25Hz step.

Also the frequency is input to PLL unit IC703 Pin8 through Q931 for the PLL loop. PLL 1C divides the frequency of 155.000~174.995MHz to get 5kHz, and it is compared with the reference frequency of 5kHz to make the loop.

Oscillating frequency Indication of the operation frequency of 100kHz digit or below

155.000MHz 165.000MHz 174,995MHz (00)00000 .5000(00) (22)6666

*The number in () is the frequency of no indication.

The reference frequency of 30MHz is divided to get 5kHz (25Hz x 200), and used as the reference frequency in IC703. Because the signal of 9.875MHz is input to IC701 Pin8, the sum of the frequencies, 10.65~10.75MHz is supplied from IC703 Pin2, and passed through the ceramic filter of 10.7MHz, then fed to IC705 Pin6.

70.65~70.75MHz is supplied from IC703 Pin3, passed through the band-pass filter As the double harmonics of reference frequency of 30MHz are generated in Q708, of L706, L707 and L708, and fed to IC709 Pin8. Then the signal is ncluded in a L710 and L709, and they are fed to IC706 Pin8. The sum of the frequency of part of the loop of the first local oscillating signal.

(11) CTCSS for only FM transmission

In Tone unit, T type controls the frequency with the DIP Switch SW901 Pin3 - 8, then it is oscillated between 67~251Hz, amplified in Q901 and passed through CN704-1, then led to the MAIN unit from CN701 Pin16.

In this circuit, ON operation is performed when TONS is the sink and IC901 Pin4

is 0V, and FM is supplied 8V and tone unit power supply is ON.
The tone level is controlled with the DIP switch SW901 Pin1 and Pin2 to adjust the levei.

(12) FM TX deviation
Default is ± 2.5kHz deviation on 29MHz and ±5kHz deviation on 51 MHz.
a)Short-circuiting collector and emitter of Q734 will make both bands ± 2.5kHz.
b) Short-circuiting the base and emitter of Q734 (and collector and emitter open) will make both bands ± 5kHz.
Short-circuiting both(a) and (b) will result in the same effect as (a).

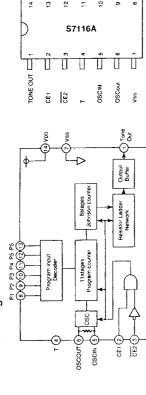
5) Terminal function of CPU

ý	Use1	U\$62	Use3	Pin Neme	Remerks	Ň	Description		r
~			AVSS	GND					
3				GND		-			
4			XZ	XTAL, LOSC					
S			×	XTAL		-			
9			Vss	GND					
1			1080	XTAL					
8			OSC2	XTAL					
			/AES	/RST		-			
0		L	Ø.	5.05		-			
Ξ	120	ğ	ADTRG	DCK	DIAL CLOCK	-	Main dial rotation detection and pulse	Rise edge	
-2	124		gn	PCONT	NO MEMOR	c	number	detection	
T					TO WOULD IN		rower control output	Power OFF	Power ON
5	22			PSDET	POWER DET	-	Condition detection when power switch is turned ON.	Duning power OFF	During power ON
7	P23			1KEY	TUNE KEY	-	Detection of working external antenna timer	At work	Waiting
5	22			UNEK	PLL UNLOCK	-	PLL unlock detection	Unlock	Lock
9	2			MCK	EEPROM CK	٥	Clock for data transmission/reception to EEPROM		
1	924			MDAT	EEPROM DATA	9	Data Transmission/Recaption to EEPHOM		
8	724			EXTIN	EXT IN	-	External EEPROM transmission	EEPROM	Acceptance
19	930		SCK1	CK1	SERIAL1 CK	0	HPL LPL data transmission clock		
20	P31		125	DAT:	SERIAL1 DATA	0	HPL, LPL data fransmission		
2.1	P32		SO:	ENH	HPLL ENABLE	0	HPL data transmission enable		Enable
22	P33		SCK2	ENL	LPLL ENABLE	0	1PL data transmission enable		Enable
2 2	P.34		Si2	SKS SKS	SERIAL2 CK	0	MODE, BPF, etc. transmission dock		
2 5	S 20		202	DAT2	SERIAL2 DATA	٥	MODE, BPF, etc. data transmission		
3 8	8 6		2010	ENT D	SERIAL SELECT	٥	MODE, BPF, etc. data enable selection		Enable 1
22			3 3	GND	SEMINE SELECT		MODE, BPF, etc. data enable selection		Enable 2
28			ξ×						
82			7.5						
8			۲,						
=			٨٥	SV					
3 8	PA3	5 5		COM4		0	LCD COMMON		
3 3	PA1	anos		EMOS			ICO COMMON		
33	PAO	COMI		COM3			NO COMMON		
36	P50	SEG1	WKPO	080		-	SW, initial setting detection		Detection
37	P51	SEG2	WKP1	081		-	SW, initial setting detection		Detection
8	P52	SEG3	WKP2	DB2		-	SW, initial setting detection		Detection
g :	253	SEG4	WKP3	DBG		-	SW, initial setting detection		Detection
0 ;	25.0	SEGS	WKP4	DBM		-	SW, initial setting detection		Defection
	50	25.56	WKPS	086		-	SW, initial setting detection		Detection
¥ ;	98 2	SEG7	WKP6	DB6		-	SW, initial setting detection		Detection
3 :	è é	35.06	WKP/			۰			Detection
. 3	3 3	25.03		2 5		٥	Panel SW for ON detection		At detecting
Ī		200		=		٥	Panel SW for ON detection		Al detecting
46	P62	SEG11		7.5		0	Output for initial condition setting detection		
4	\$	SEG12		۲3		0	Output for initial condition setting		
80	78	SEG13		GND		c	Detection		
49	592	SEG14		LCDEN		0	LCD driver enable		
8	986	SEG15		LCDCX			LCD driver dock		
31	196	SEG16		LCDATA		0	LCD driver data		
ı							_		

SEMICONDUCTOR DATA

1) **S7116A** (**XA0052**) Tone Generator

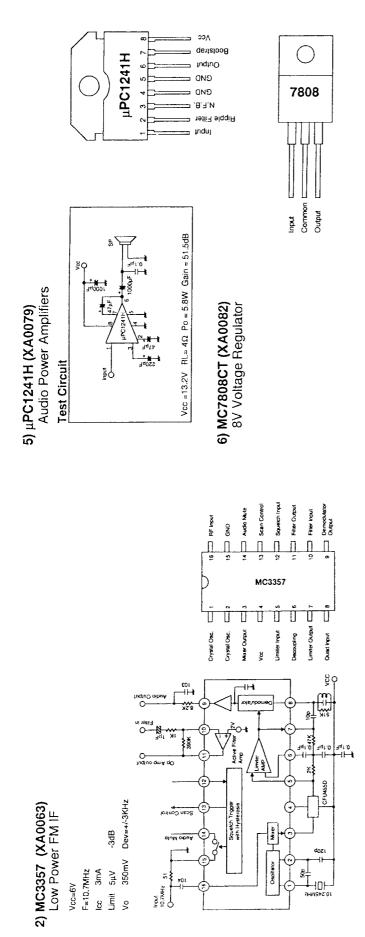
Block Diagram



Parameter	Symbol	Condition	Min	Min Typ Max	Max	Unit
Supply voltage	VDD		3.0	-	10	>
Supply current	0001	VDD=5.0V, CE1=Vpp, CE2=Vss, C6=Cp=10pF	,	0.4	1.0	ΑH
Stand by current	saaj	VDD=5.0V, input: open, RL=50kΩ		20	09	Ą
Tone output level	VOT	VDD=5.0V, RL=50kΩ	240	240 340 440	440	mV rms

	_																											
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	_	1	-	
-	-																	-	-	-	-	-	-		-	1	-	
-	-									-	-	-	-	-	-	-	-									1	1	
-	-					-	-	,-	-					-		-	-					-	1	-				
-	-			-	-			-	-			-	-			-	٠			-	-			-	-			
	-		-		-		-		-		-		-		-		-		-		-		-		-			
186.2	192.8	203.5	210.7	218.1	225.7	233.6	241.8	250.3	900	009	200	800	900	1000	1600	1700	1750	1800	1300	2000	2200	2975	2550	2295	2125	1275	1445	
															-	-	-	r		-		-	-	1	1	1	-	-
							1	-	-	1	-	,	-										-	1	1	1	-	-
			-	-	-						-	-	-	1					-	-	-	-					-	-
	-	1			1	-			-	-				-			1	1			-	-			-	-		
-		1		1		-		-		-		-		-		-		- 1		-		1		-		-		-
67.0	71.9	74.4	0.77	79.7	82.5	85.4	88.5	91.5	8.9	97.4	100.0	103.5	107.2	110.9	114.8	118.8	123.0	127.3	131.8	136.5	141.3	146.2	151.4	156.7	162.2	167.9	173.8	179.9
	186.2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1 1 1 1 1 1 1 1 1 1	1	1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1

	- 1		0	Cultural to LCD Segment		
				Output to Loca destruction		
			0	Output to LCD Segment		
1 1 1 1 1	1		0	Output to LCO Segment		
			0	Output to LCD Segment		
1 1 1			0	Output to LCD Segment		
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			0	Output to LCD Segment		
				Cultor of CD Species		
			, -	מחיצו ומ רכם פפלוויפוני		
			С	Ones the source forestty (months)		Squelich open
İ	İ		۱.	(company) (company)		torcedly
			0	The command to put out the light forcedly and flashing to LCD driver	Put out the light forcedly	During lighting
			0	Beep sound output	Pulse output	
			-	Squelch open/close condition detection	Squeich close	Squelch open
\$	DIMMER	e B	0	LCD dimmer control	Duty control of	
1			_	Transmission condition detection	Transmission	Becephon
			-	MF dial rotation detection		
1			_	MF dial rotation detection		
12	덩	COUNT RESET	0	Dial pulse count reset	Dunng counting	Resei
- 1	ŀ		-			
12	į	O CONTROL	- -		1	
ξ I	5	100	-	rower Orr conection	rower Or r	Power Ox
			-	Dial clock 1/2		
1			-	Dial clock 1/4		
1			-	Drai clock 1/8		
1			-	Draf clock 1/16		
ļ			_	Dial clock 1/32		
			-	Dial clock 1/64		
			-	Dial up rotation		n
ı	ı		-	Dial down rotation		Down
			8	Dial speed detection	The voltage according to the	
ļ	1		0/4	Of 1/O position defendant	speed of rotation.	
1	1		0.4	Me Herrorian desertion	2-37/4000	0.00
- 1			2	Mr. UP/LXXWN Detection	2-3v down	0-5v up



Vss K Z S 7) µPD6345GS (XA0114) 8bit Serial in Parallel Out Driver Serial data output termin Data output termina Enable terminal Latch terminal GND terminal

RES SCK

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NEC D6345G

18 10 18 18

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☐ 5 Non Inverting Input 2

Power Supply Minus 4 Non Inverting Input 1 3

☐ 6 Inverting Input 2

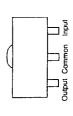
Bower Supply Plus

Output 2

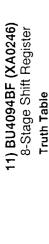
Inverting Input 1 2

Output 1

3) M5218FP (XA0068)
Dual Low Noise
Operational Amplifiers







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aav 🗌

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Parallel outputs Serial outputs	Strobe Data Q1 On Qs	X X Z Z Q7 No Chg.	X X Z Z No Chg.	L X No Chg. No Chg. Q7 No Chg.	H L L On-1 Q7 No Chg.	H H Gn-1 Q7 No Chg.	X X No Chg. No Chg. No Chg.
	Output	٦	l L	Ι	I	Ŧ	I

SSA

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4 CONT

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VSS

9) NJM2904M (XA0224) Dual Operational Amplifiers

E VOD

IN/OUT

OUT/IN [2]

								16 Vec	
							Z≖High Impedance X≂Don't Care		
Serial outputs	O's	No Chg.	ő	No Chg.	No Chg.	No Chg.	so	STROBE I SERIAL IN	
Serial	်	70	No Chg.	70	60	70	No Chg.	10 O Q'S) SERIAL 9 O QS) OUTPUT	
Parallel outputs	Q	7	Z	No Chg. No Chg.	On-1	On-1	No Chg.	1000	
Parallet	10	2	2	No Chg.	٦	н	No Chg.	ISTER	
	Data	×	×	×	L	Ι	×	am 8-STAGE SHIFT REGISTER	
	Strobe	×	×	7	I	н	×	am 8-STAGE	
	Output	٦	٦	I	н	I	н	Block Diagram SERIAL N OLOCK O-3 R-ST	
	Clock	_•		Ļ		L		Block Dia	

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CLOCK

Non Inverting Input 2

Power Supply Minus 4

Non Inverting Input 1 3 [

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Inverting Input 2

B Power Supply Plus

Inverting Input 1 2

OUTPUT

Output 1

100

Block Diagram

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Vss

BU4094BF

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Control input High (1/20) Control input Low (1/21) Input voltage sensitivity Output voltage swing Characteristics PLL response time Toggle frequency (Sine wave input) Supply current 08 Output 3-STAGE OUTPUTS Š Š 8-BIT LATCHES PARALLEL OUTPUTS Two-Modulus Prescaler 12) MC12019D (XA0292) QND *N/*N+1 ၇႘ိ **Block Diagram** ġδ 0.001 0.001µF OUTPUTO 15 ENABLE STROBE O-Control Signal Input O Signal Gnd

COMMON Y 3

7

Υ2

BINARY TO 1 of 4 DECODER WITH INHIBIT

INHIBIT (6) ON LEVEL A (10) ON CONVE B (9) ON RTER

9

Analog Multiplexer/Démultiplexer

Logic Diagram

Vpp (16)

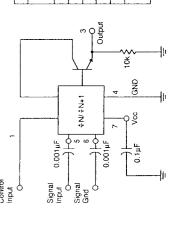
10) BU4052BF (XA0236)

25

VSS (8) VEE (7) INHIBIT VEE VSS

4

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dd/III ф√т

1200

600 200

Vout

800

tout-

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MHZ Ā

7.5

2.0

Ξ 20

VIL.

Max

Ξ

225

fmax

fmin

|--|

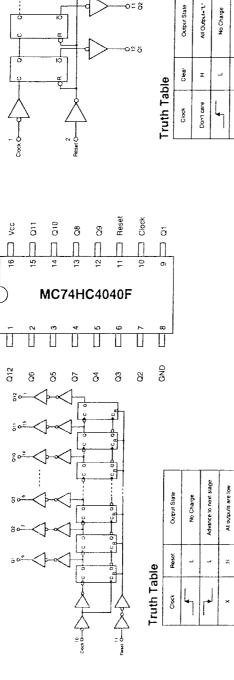
INHIBIT	٧	В	ON SWITC
	7	7	0Y 0X
١	I	٦	X1 Y1
ر	7	Ι	X2 Y2
7	r	I	X3 Y3
I	×	×	NONE
X: Don't Care	ē.		

Truth Table

INHIBIT	∢	В	ON SWITCH
۲	7	7	0X 0X
٦	I	٦	X1 Y1
ر	7	Ι	X2 Y2
	r	I	X3 Y3
I	×	×	NONE
X. Don't Care	۵		

8) TC4S66F (XA0115) Bilateral Switch

13) MC74HC4040F (XA0293) 12-Stage Binary Ripple Counter



15) MC14024BF (XA0295) 7-Stage Binary Counter

Š 5 8 5 ∏ SS

Clock Reset

MC14024BF

90 92

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S 8

Vss

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16) MC14071BF (XA0296) Quad 2-Input OR Gate

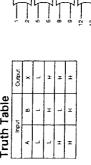
Clock Aa Reset a

3.5

Clock A 1, 15

Clock B 4, 12

14) MC74HC390F (XA0294)
Dual 4-Stage Binary Ripple Counter 1/2 and 1/5 Sections



MC74HC390F

Clock Ba QAa

OBa O

	<u>۲</u>	7	Ţ	7	1	7.	12	
	Outpo	×	_	1	I	±		
aple	5	n	1	ı	-1	r		
in the	Input	٧	7	٦	I	I		

Out D n O

MC14071BF

Out A Out B

In 2D

14 U VDD

in 1A In 2A Outc

In 1B In 28

app

GND

ODa

Truth Table

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in 10

Vss

_		I	T	
	Action	Reset 1/2 and 1/5	Increment 1/2	Increment 1/5
	Heset	ı	ر	٦
	£	×	×	•
	4	×	7	×

ť	rs.	×	×	الم	
Clock	٧	×	_	×	
	3, 13 00,	;	0 0 0 0 0 0	900	
	Clock A 1, 15 1/2	Ъ	\$ ₹		7
	ock A 1, 15	_	Clock B 1. 15		Peset 1: 1
	ō		5		đ

17) MB87086A (XA0297) PLL Frequency Synthesizer

18) MB87014A (XA0298) PLL Frequency Synthesizer

OA

No. Pin Name OSCN OSCOUT

0 0

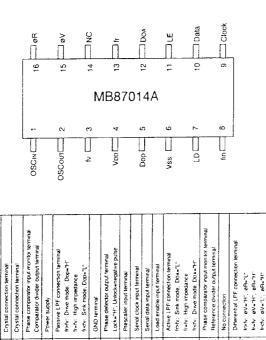
> 2 ag/

6

New Sink mode Dop-1;
0 0 0
- 0 0 0
0 0 0
0 . 0
. 0
0

		Ñ 					j L
16	5	4	5	12	***	5	თ
		Ν	1B87	086 <i>F</i>	4		
-	2	ო	4	s,	9	7	80
OSCIN	OSCOUT	2	Nob	doq	\ss\	a,	ifi

16 Jak	15 00	14 NC	13 14	12 Do.A	11	10 Data	9 Clock
		Ν	1B87	086	4		
OSCIN	OSCOUTE 2	° ≥	Vop 4	Dop 5	Vss 6	- Lo Lo	fin 8



0

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Clock Data

8

Vss

8

0 0 0

> ğ ٨ R.

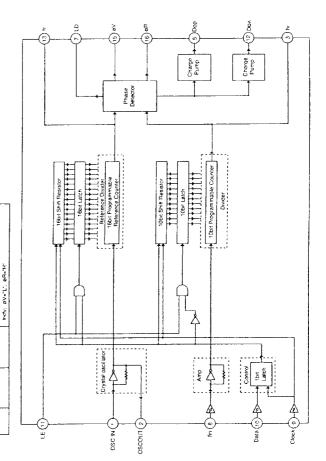
4 5

9

13

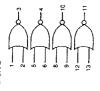
Prasse Charge Ch
Ferrence Counter Boil Shin Ferrence Counter Boil Shin Ferrence Counter Boil Shin Ferrence Counter Boil Shin For Latch For Latch For Counter Count
Dual Modus Present (4-65)
OSC IN Coval accidance

16 Jak	15	14 NC	13	12 Doa	11	10 Data	9 Ciock
		Ν	1B87	086/	4		
OSCIN 1	OSCOUT 2	e ≥	Von 4	Dop 5	Vss	- LD GJ	fin B



19) MC4001BF (XA0299) Quad 2-Input NOR Gate

	_!	-5	č.	9	<u>ا</u> ش	6	12	13
		Output	×	ı		-		
•	uth Table	5	8	_	1		I	
	rth.	Input	٧	٦	ı,	×	r	

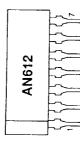




OutD Outc Ot u 1 2 S n 10 Λρο <u>0</u> BU4001BF \Box In 1A Out A OutB 17 ZA In 1B In 2B Vss

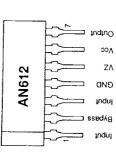
20) AN612 (XA0300) Balanced Modulator Circuit

Parameter	Symbol	Condition	Ratings	Unit
Max. supply voltage	νας		14.4	>
Supply current	lcc		15	Ą
Power dissipation	PD		220	¥
Total current	Iot		9.5	Ā
Zener voltage	452		6 15	>
Signal input terminal voltage	2.5	V6=12.0V	3.1	. >
Carrier input terminal voltage	43.		3.4	>
Output terminal voltage	V7.4		9	> >
Output voltage (BM AC)	Vo(BM)		6	· #
Carrier suppression	SC	V6=9.0V	50	ą



AN612

Test Circuit



% o 0

Orto

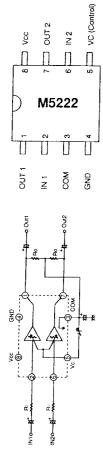
₩ 110°0

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Signal Input

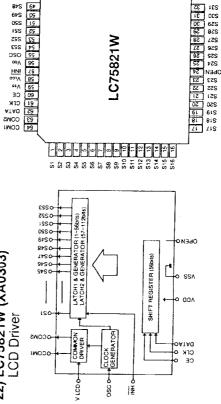
\$\$ 150kp

21) M5222FP (XA0385) Low Voltage Dual VCA



Parameter	Symbol	Condition	Vec		Min Typ Max	1400	1	_
Supply current	2	0 0/0-9/			2	MidX		_
		VIII.), VC#C	30	2.5	3.6	5,5	Ą	
Max. input	ViM1	(*1kHz, Vc≈0, THD≈1%, RI≖10kΩ, RO=20kΩ	ş	0.7	1.0		Vmms	
o financia	ViM2	1=1kHz, Vc=0, THD≂1%, RI=50kΩ, RO=100kΩ	3	23	,			
Max			;				VITES	
aftenuation level	ATTM	Vc=-270mV, RI=10kΩ, RO=20kΩ	%	8	06		Æ	,
							3	
Moise output	1,400	Vc=0 (ATT=-1.4dB)						_
voltage	2	RI=10kΩ, RO=20kΩ, BW=20H7~20kH7	%	,	30	9	#Vrms	
Noise output								
10410	N/N/S	NC= 40dB						_
voltage	5	RI=10kΩ, RO=20kΩ, BW=20H2~20kHz	હ	,	ß		μVrms	
							_	_

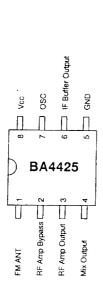
22) LC75821W (XA0303) LCD Driver



LC75821W

S1-S53 COM1, 2 V LCD OSC	Description Segment output terminal Common output terminal LCD Bass voltage setting terminal Oscillator terminal
CE, CLK, DATA VSS, VDD	Serial data transmission terminal Power supply terminal
HNI	Display turn off input terminal INH-1" Vas, turn off (\$1-\$53, COM1,2=1.) INH-"H" Vdd, turn on
OPEN	No connection

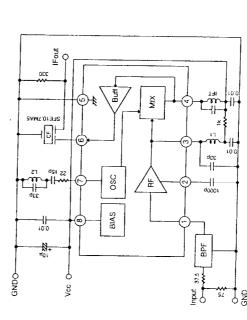
23) BA4425F (XA0304) FM Front End IC

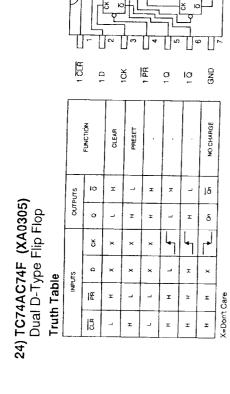


Mix Output	4	2	5 GND				
Vcc=4V				•			
Parameter		Symbol	Condition	Ä	Min	Max	
Current		ō	No signal	3.6	1	i i	5
To the property of				3	5	۱ نو	Ě
samuele output voitage	age.	۸o	td=98MHz, 80dBμV	30	20	72	mV rms
Local oscillator voltage	a	Vosc	fosc=108MHz	200	400	630	\m_
Conversion gain		Gvc	10=98MHz. 554BV	3.1	36	3	2 4
			4	5	2	747	9

Test Circuit

Local oscillator stop voltage OSC STOP





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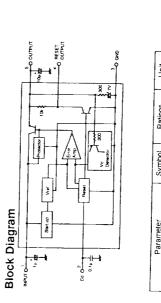
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25) L78LR05B (XA0338) Voltage Regulator

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78LR05

Parameter age urrent

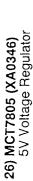
Δ. C

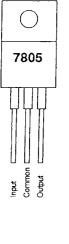
1uq1uO

ındul

Reset output GND

Delay сарасітот № ПППП





Carrier Input

29) µPC1037GR (XA0379) Double Balanced Modulator

☐ Bypass

Signal Input

μPC1037GR (MS)

Output Output1 Λcc

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QNS ∏

27) TC4030BF (XA0347)
Quad Exclusive-OR Gate

X 7 X	Ξl	
1 1 1 1 1	-	۲
Table Input	-	r
=	Ξ	I

In 1A	In 2A	Out A	Out B	In 18

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)
7/2

Out D Outc

TC4030BF

п 5

In 2D Vpp

In 2B Vss kΩ//pF

1.0//9 6//009 350//7

Output 1

Zol

Zci Zci

Carrier input impedance Signal input impedance

th 10

h 2C

Output impedance

Vcc

٩W

SCL SDA

24LC16B

Ω/pF Ω//pF

B

-35

45

Signal 1: 42.5mV r.m.s. 1.75MHz Signal 2: 42.5mV r.m.s. 2.00MHz Carrier: 100mV r.m.s. 28.25MHz Output: 29.75MHz

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Inter modulated distortion

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16 7 -50

2

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Condition

Symbol

Characteristics

Vcc-6.0V

No signal

8

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Conversion gain Signal leakage Carrier leakage

Circuit current

-50

4 -32

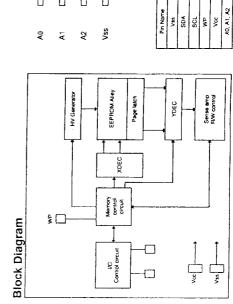
Carrier: 100mV r.m.s. 28.25MHz Signal: 70mV r.m.s. 1.75MHz

Output: 30MHz

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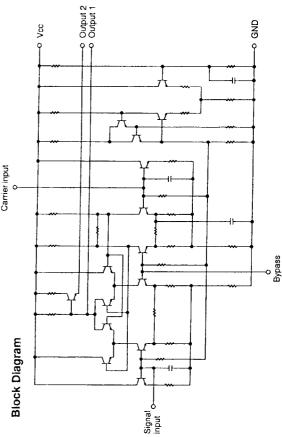
Ľ

28) 24LC16B (XA0351) 16K bits CMOS Serial EEPROM

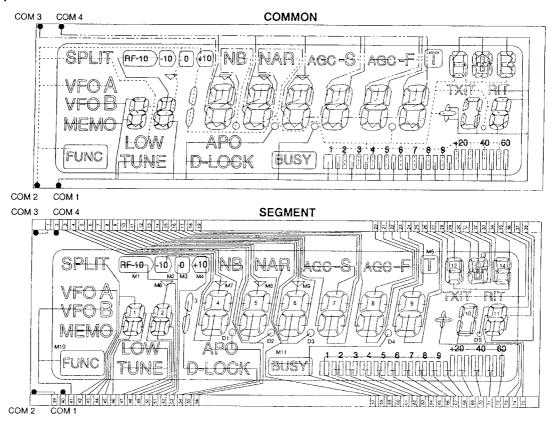


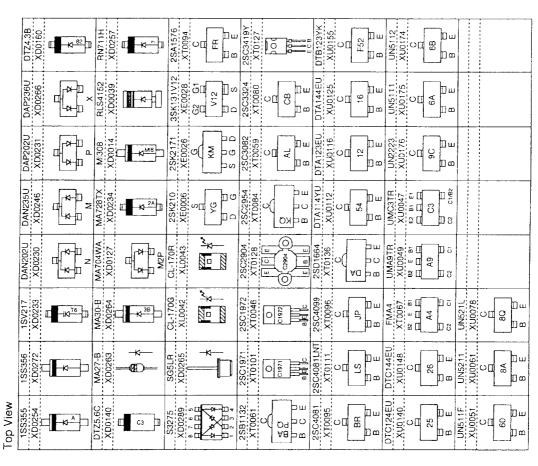
Serial address/data I/O
Senal clock
White protect
+2.5V-5.5V power supply
No connection

•		
Block Diagram		> 1
Block [Signal input	



31) LCD Connection



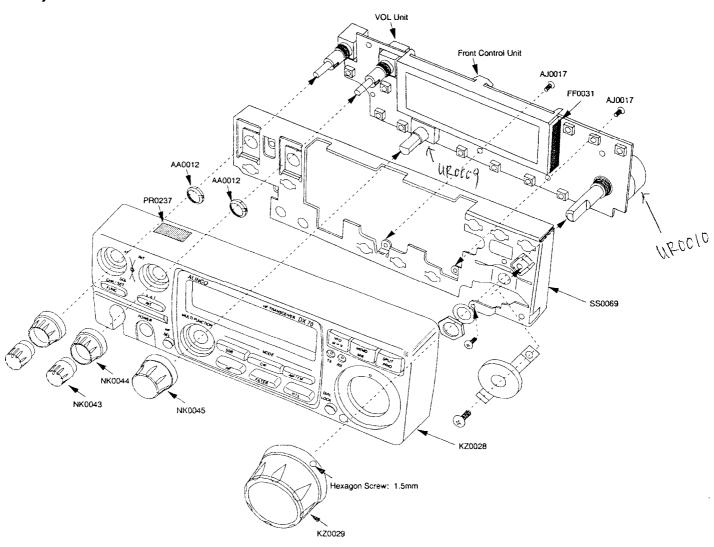


30) Transistor, Diode and LED Outline Drawings

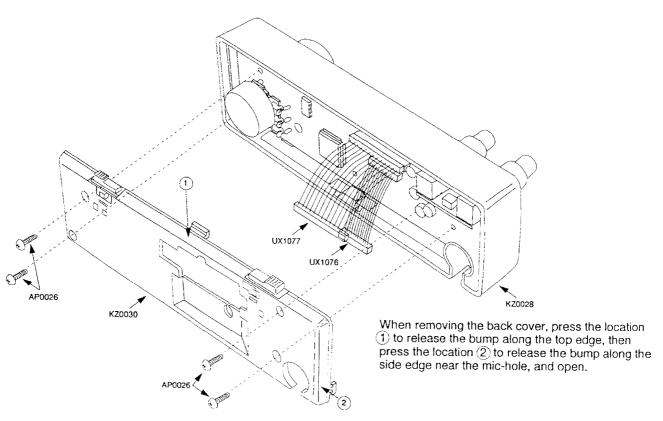
Downloaded by RadioAmateur.EU

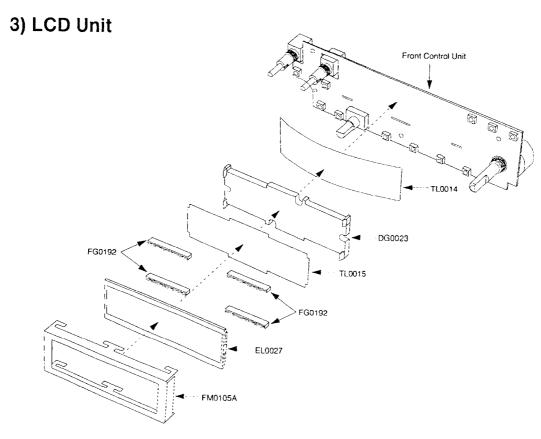
EXPLODED VIEW

1) Front Control Unit 1

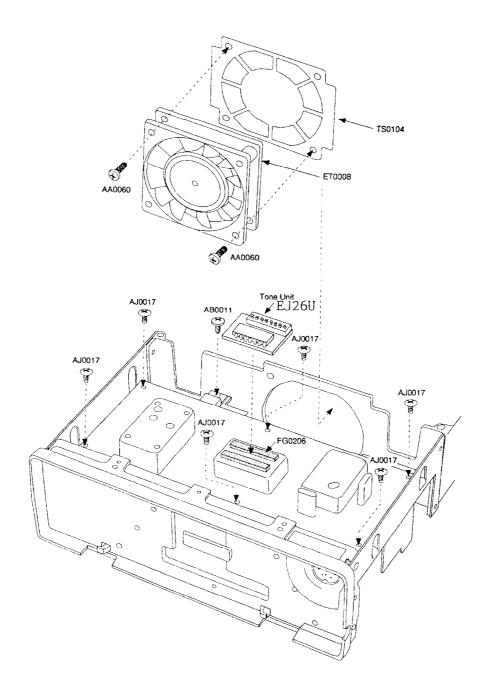


2) Front Control Unit 2

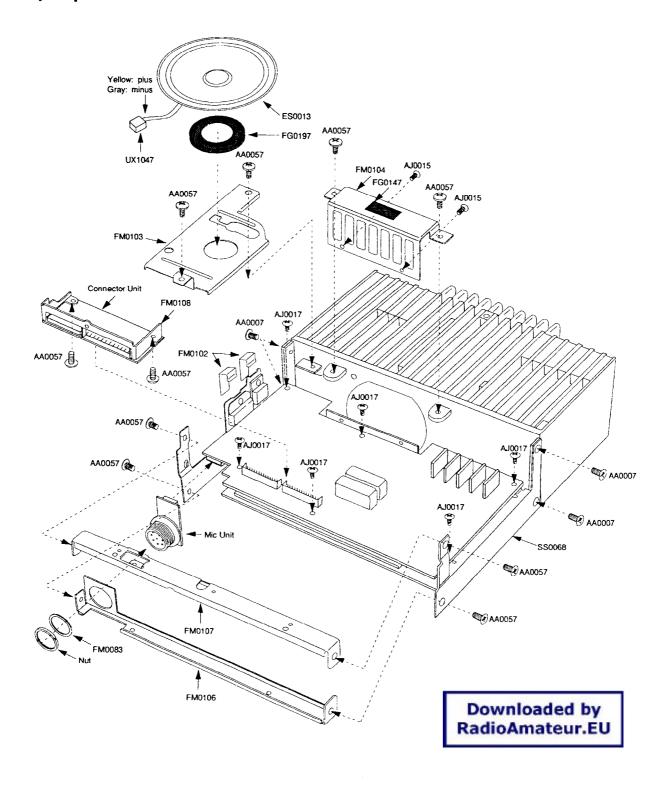


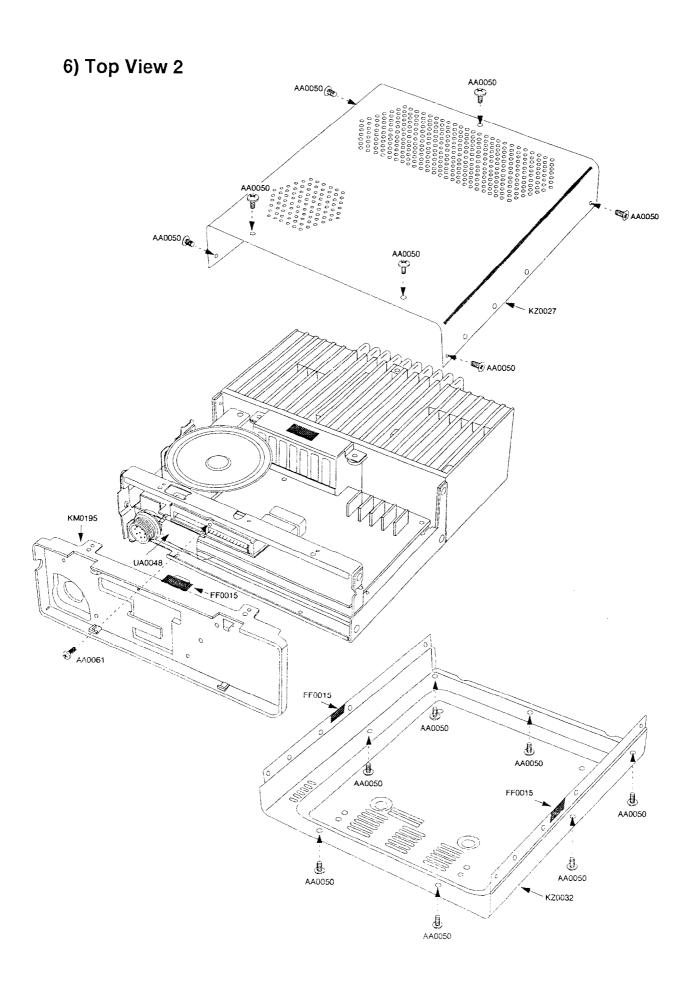


4) PLL Unit and Fan

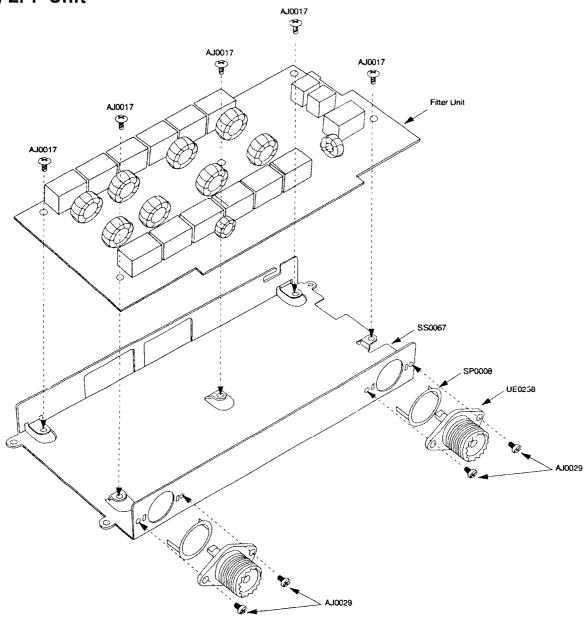


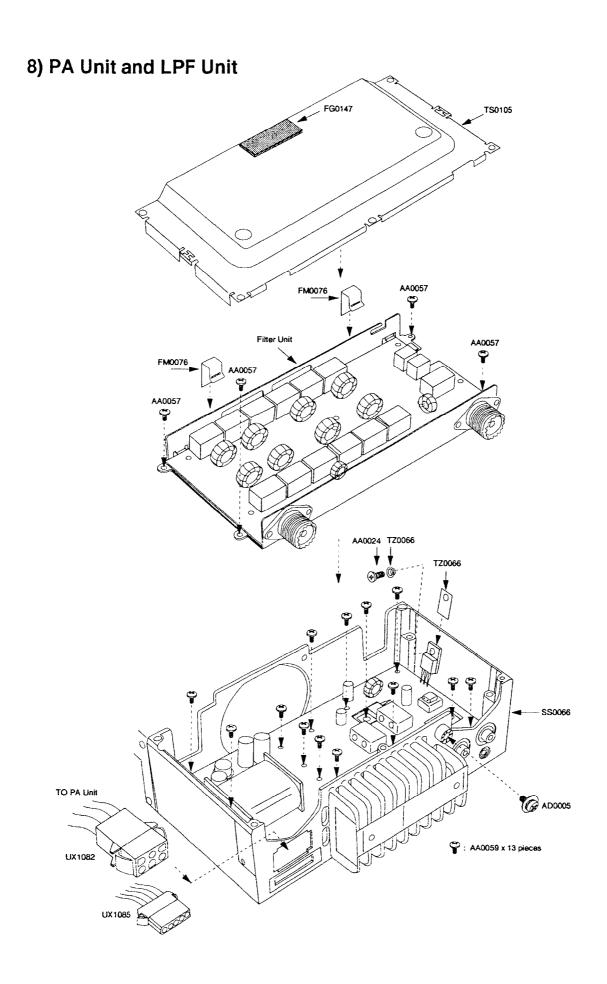
5) Top View 1





7) LPF Unit





Parts Name

Description Chip C. Chip C. Chip C. Chip C. Chip C. Chip C. Chip C. Chip C. Chip C.

C1608JF1E473ZT-A

C1608JF1E473ZT-A

C1608JF1E473ZT-A

C1608JF1E473ZT-A

C1608CH1H220JT-A C1608JF1E473ZT-A C1608JB1E223KT-A C1608JF1E473ZT-A C1508JF1E473ZT-A

C1608JB1H471KT-A

Chip C. Chip C.

ž	Parts No.	Description	Farts Name	Z	Parts No.
		MAIN Unit	nit	020	C313/141
ន	cu3056	Chip C.	C1608JF1E473ZT~A	153	CU8042
క	cu3035	Chip C.	C1608JB1H102KT-A	C52	CU3051
3	cu3056	Chip C.	C1608JF1E473ZT-A	C53	cU3056
5	cu3056		C1608JF1E473ZT-A	865	CU3059
හි .	CU3059		C1608JF1E104ZT-A	C99	cu3059
010	CU3028		C1608CH1H271JT-A	C100	c03059
5 8	CU3047		C1608JB1H103KT-A	C101	cu3018
C12	CU3024		C1608CH1H121JT~A	C102	CU3059
2 2	CU3011		C1608CH1H100CT-A	C103	cu3013
<u>ب</u> ج خ څ	013013	י ני	C1608CH1H39UJ1-A	5.04	cu3021
n <u>y</u>	CU3027	Chip C	C1608CH1H22131-A	C105	CU3017
C17	CU3013		C1608CH1H150.II-A	0100	C113005
C18	CU3047		C1608JB1H103KT-A	C108	CU3035
C19	cu3025	Chip C.	C1608CH1H151JT-A	C109	CU3059
C20	cu3056	Chip C.	C1608JF1E473ZT-A	C110	cu3059
C21	cu3056	Chip C.	C1608JF1E473ZT-A	C111	CU3059
C22	cu3056	Chip C.	C1608JF1E473ZT-A	C112	CU3011
C23	cu3056	Chrp C.	C1608JF1E473ZT-A	C113	cu3056
C24	cu3007	Chip C.	C1608CH1H060CT~A	C114	CU3011
C25	CU3047		C1608JB1H103KT-A	C115	CU3007
972	cu3012		C1608CH1H120JT-A	C116	CU3059
C27	CU3047		C1608JB1H103KT~A	C117	CU3047
C28	CU3043		C1608JB1H472KT-A	C118	CU3047
CZ3	c03009		C1608CH1H080CT-A	C119	CU3007
8 8	CU3047		C1608JB1H103XT-A	C120	CU3047
E 8	CU3047		C1608JB1H103KT-A	C121	CU3035
C32	cu3012		C1608CH1H120JT-A	C122	CU3047
55.5	CU3012		C1608CH1H1Z0JT-A	C123	CU3035
<u> </u>	CU3003		C1608CH1H020CT-A	C124	CU3018
3 8	CU3035		C1608JB1H10ZK?-A	C125	CU3047
65 5	CU3045		C1608JB1H682KT-A	C126	CU3013
3 8	000000		C1000CH1N030C1-A	1710	810800
9 2	CS0333	Chin Tantakan	CIBUSUB H44/ZKI-A	6128	CS0069
3	C113056	, c	1.000 1.100	5 5	Cubbar
3 2	CU3031		C1608JB1H471KT-A	C131	CU3055
C42	CU3056		C1608JF1E473ZT-A	C133	CU3056
C43	03056	Chip C.	. C1608JF1E473Z1-A	C134	CU3031
C44	CU3047	Chip C.	C1608JB1H103KT-A	C135	CU3056
C45	CU3047	Chip C.	C1608JB1H103KT-A	C136	CU3056
246	CU3056	Chip C.	C1608JF1E473ZT-A	C137	cu3056
C47	CU3038		C1608JB1H182KT-A	C138	CU3031
C48	CU3037	Chip C.	C1608JB1H152KT-A	C139	CE0315
040	000000				

No.	Parts No.	Description	Parts Name	æ 2
050	C13041	Chin	C1608 (810000T.A	Τ,
5.5	CURN47		C2012 IR1C104KT=4	5 2
C52	CU3051	S is	C1608JB1E223KT~A	5 2
C53	cu3056	Chip C	C1608JF1E473ZT-A	- 5
860	CU3059	Chip C.	C1608JF1E104ZT-A	- 5
660	cu3059	Chip C.	C1608JF1E104ZT-A	5
C100	cu3059	Chip C.	C1608JF1E104ZT-A	
C101	cu3018	Chip C.	C1608CH1H390JT-A	5
C102	CU3059	Chip C.	C1608JF1E104ZT-A	5
C103	cu3013	Chip C.	C1608CH1H150JT~A	
C104	CU3021	Chip C.	C1608CH1H680JT-A	
C105	CU3017	Chip C.	C1608CH1H330JT-A	5
C106	cu3023	Chip C.	C1608CH1H101JT-A	5
C107	CU3005	Chip C.	C1608CH1H040CT-A	5
C108	CU3035	Chip C.	C1608JB1H102KT-A	5
C109	CU3059	Chip C.	C1608JF1E104ZT-A	5
C110	cu3059	Chip C.	C1608JF1E104ZT-A	5
C111	cu3059	Chip C.	C1608JF1E104ZT-A	5
C112	cu3011	Chip C.	C1608CH1H100CF-A	5
C113	cu3056	Chip C.	C1608JF1E473ZT~A	5
C114	cu3011		C1608CH1H100CT-A	5
C115	cu3007	Chip C	C1608CH1H060CT-A	5
C116	CU3059	Chip C.	C1608JF1E104ZT-A	5
C117	Cu3047	Chip C.	C1608JB1H103KT-A	5
C118	CU3047	Chip C.	C1608JB1H103KT-A	5
C119	CU3007	Chip C.	C1608CH1H060CT~A	5
C120	CU3047	Chip C.	C1608JB1H103KT-A	5
C121	cu3035	Chrp C	C1608JB1H102KT-A	5
C122	CU3047	Chip C.	C1608JB1H103KT-A	5
C123	CU3035	Chip C.	C1608JB1H102KT-A	5
C124	CU3018	Chrip C.	C1608CH1H390JT~A	5
C125	CU3047	Chip C.	C1608JB1H103KT~A	5
C126	CU3013	Chip C.	C1608CH1H15DJT-A	5
C127	CU3018	Chip C.	C1608CH1H390JT-A	5
C128	CS0069	Chip Tantalum	TMCSA1V154MTR	5
c130	CE0310	Electrolytic C.	ECEV1AA330P	5
C131	CU3035	Chip c.	C1608JB1H102KT-A	5
C132	CU3056	Chip C.	C1608JF1E473ZT-A	<u> </u>
C133	CU3056		C1608JF1E473ZT-A	5
C134	CU3031		C1608JB1H471KT-A	5
C135	cu3056		C1608JF1E473ZT-A	5
C136	cu3056	Chip C	C1608JF1E473ZT-A	5
C137	cu3056	Chip C.	C1608JF1E473ZT-A	5
C138	CU3031		C1608JB1H471XT-A	5
C139	CE0315	Electrolytic C.	ECEV1CA470P	
C140	cu3056	Chip C	C1608JF1E473ZT-A	
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Parts No.	Description	Parts Name	Ref.	Parts No.
CU3041	Chip C.	C1608JB1H332KT~A	C141	cu3056
CU8042	Chip C.	C2012JB1C104KT-A	C142	c03031
CU3051	Chip C.	C1608JB1E223KT~A	C143	CU30562
cu3056	Chip C.	C1608JF1E473ZT-A	C144	cu3056
cu3059	Chip C.	C1608JF1E104ZT-A	C145	cu3056
cu3059	Chip C.	C1608JF1E104ZT-A	C146	cu3015
cu3059	Chip C.	C1608JF1E104ZT-A	C147	cu3056
cu3018	Chip C.	C1608CH1H390JT~A	C148	cu3031
cu3059	Chrip C.	C1608JF1E104ZT-A	C149	cu3051
cu3013	Chip C.	C1608CH1H150JT-A	C150	CU3056
cu3021	Chip C.	C1608CH1H680JT-A	C151	cu3056
CU3017	Chip C.	C1608CH1H330JT-A	C152	cu3056
cu3023	Chip C.	C1608CH1H101JT-A	C153	cu3056
cu3005	Chip C.	C1608CH1H040CT-A	C154	cu3056
CU3035	Chip C.	C1608JB1H102KT-A	C155	CU3056
CU3059	Chip C.	C1608JF1E104ZT-A	C156	CU3056
cn3029	Chip C.	C1608JF1E104ZT-A	C157	CU3056
cu3059	Chip C.	C1608JF1E104ZT-A	C158	cu3056
cu3011	Chip C.	C1608CH1H100CF-A	C159	CU3056
cu3056	Chip C.	C1608JF1E473ZT~A	C160	cu3056
CU3011	Chip C.	C1608CH1H100CT-A	C161	cu3056
cu3007	Chip C.	C1608CH1H060CT-A	C162	CU3039
cn3059	Chip C.	C1608JF1E104ZT-A	C163	CU3056
CU3047	Chip C.	C1608JB1H103KT-A	C164	cu3056
CU3047	Chip C.	C1608JB1H103KT-A	C165	CU3056
CU3007	Chip C.	C1608CH1H060CT-A	C166	cu3031
CU3047	Chrp C.	C1608JB1H103KT-A	C167	CU3056
cu3035	Chrp C	C1608JB1H102KT-A	C168	CU3031
CU3047	Chip C.	C1608JB1H103KT-A	C169	cu3056
CU3035	Chip C.	C1608JB1H102KT-A	C170	cu3027
CU3018	Chrp C.	C1608CH1H390JT-A	C171	cu3056
CU3047	Chip C.	C1608JB1H103KT~A	C172	CU3056
CU3013		C1608CH1H15DJT-A	C173	CU3035
CU3018	Chip C.	C1608CH1H390JT-A	C174	CU3051
690053	Chip Tantalum	TMCSA1V154MTR	C175	cu3056
CE0310	Electrolytic C.	ECEV1AA330P	C176	cu3056
CU3035	Chip C.	C1608JB1H102KT-A	C177	CU3037
CU3056	Chip C.	C1608JF1E473Z1-A	C178	CU3047
cu3056	Chip C.	C1608JF1E473ZT-A	C179	CU3056
CU3031	Chrp C.	C1608JB1H471KT-A	C180	CS0372
cn3056	Chip C.	C1608JF1E473ZT-A	C181	cu3056
cu3056	Chip C.	C1608JF1E473ZT-A	C182	cu3051
cu3056	Chip C.	C1608JF1E473ZT-A	C183	cu3056
CU3031	Chip C.	C1608JB1H471XT-A	C184	cu3056
CE0315	Electrolytic C.	ECEV1CA470P	C185	cu3056
CU3056	Chip C.	C1608JF1E473ZT-A	C186	cu3056

ė	Parts No.	Description	Parts Name
C187	cu3056	Chip C.	C1608JF1E473ZT-A
C188	cu3056	Chip C.	C1608JF1E473ZT-A
C189	CS0372	Chip Tantalum	THCMBI C106MTR
C190	CU3102	Chip C.	C1608JB1C333KT-A
C191	CU8042	Chip C.	C2012JB1C104KT-A
C192	CU3047	Chip C.	C1608JB1H103KT-A
C193	cu3047	Chip C.	C1608JB1H103KT-A
C194	CU3047	Chip C.	C1608JB1H103KT-A
C195	CU3047	Chip C.	C1608JB1H103KT-A
C196	CS0372	Chip Tantalum	TINCARBIC106MTR
C197	cu3045	Chip C.	C1608JB1H682KT-A
C198	CU3102	Chip C.	C1608JB1C333KT-A
C199	cu3029	Chip C.	C1608JB1H331KT-A
C200	cs0230	Chip Tantalum	TMCMA1E105MTR
C201	CU3018	Chip C.	C1608CH1H390JT-A
C202	cu3029	Chip C.	C1608JB1H331KT-A
C203	cu3056	Chip C.	C1608JF1E473ZT-A
C204	190053	Chip Tantalum	TMCSA1V224MTR
C205	cs0230	Chip Tantalum	TMCMA1E105MTR
C206	CU3101	Chip C.	C1608JB1C473KT-A
C207	CU3059	Chip C.	C1608JF1E104ZT-A
C208	cu3059	Chip C.	C1608JF1E104ZT-A
C209	CU3059	Chip C.	C1608JF1E104ZT-A
C210	CU3025	Chip C.	C1608CH1H151JT-A
C211	cu3027		C1608CH1H221JT-A
C212	CU3059	Chip C.	C1608JF1E104ZT-A
C213	cs0372	Chip Tantalum	TMCMB1C106MTR
C214	cu3051	Chip C.	C1608JB1E223KT-A
C215	CU3047	Chip C.	C1608JB1H103KT-A
c216	cu3047	Chip C.	C1608JB1H103KT-A
C217	cu8042	Chip C.	C2012JB1C104KT-A
C218	CU3047	Chip C.	C1608JB!H103KT-A
C219	CU3047		C1608JB1H103KT-A
CZ20	cu3059	Chip C	C1608JF1E104ZT-A
1220	CS0372	Chip Tantalum	TMCMB1C106MTR
C222	CS0230	Chip Tantalum	TMCMA1E105MTR
c223	CS0372	Chip Tartalum	TMCMB1C106MTR
C224	cu3047	Chip C.	C1608JB1H103KT-A
C225	CU3047	Сһтр С.	C1608JB1H103KT-A
c226	CS0230	Chap Tantalum	TMCMA1E105MTR
C227	CS0225	Chip Tantalum	TMCMA1D155MTR
c228	CU3047	Chip C.	C1608JB1H103KT-A
6773	CE0312	Electrolytic C.	ECEV1CA100R
C230	CU3047	Chip C.	C1608JB1H103KT-A
C231	CE0315	Electrolytic C.	ECEV1CA470P
223	CU3026	Chip C.	C1608CH1H181 IT=4

C1608JF1E473ZT-A

Chip C. Chip C Chip C. Chip C. Chip C. Chip C. Chip C. Chip C.

C1608JF1E473ZT-A C1608JF1E473ZT-A C1608JF1E473ZT-A C1608JF1E473ZT-A C1608JB1H222KT-A C1608JF1E473ZT-A C1608JF1E473ZT-A C1608JB1H471KT-A C1608JF1E473ZT-A

Chip C. Chip C.

C1608JF1E473ZT-A

C1608JB1H471KT-A

Chip C. Chip C. Chip C. Chip C. Chip C.

C1608JF1E473ZT~A

C1698CH1H221JT-A

C1608JF1E473ZT-A C1608JF1E473ZT-A C1608JB1H102KT-A C1608JF1E473ZT-A C1608JF1E473ZT-A C1608JB1H152KT-A

Chip C

C1608JB1E223KT-A

Chip C. Chip C. Chip C Chip C. Chip C. C1608JF1E473ZT-A

Chip C

C1608JB1H103KT-A

C1608JF1E473ZT-A C1608JF1E473ZT-A C1608JF1E473ZT-A

C1608JF1E473ZT-A

Chip C.

C1608JF1E473ZT-A C1608JB1E223KT-A

Chip C

Chip C. Chip C. Chip C. Chip C.

TWCMB1C106MTR .

Chip Tantalum

C1608JF1E473ZT-A C1608JF1E473ZT-A C1608JF1E473ZT-A C1608JF1E473ZT-A

C1608JF1E473ZT-A

Chip C. Chip C. Chip C. Chip C. Chip C. Chip C. MAIN Unit

	ef. Parts No	80 CS9230	81 CE0315	82 CS0232	83 CU3047	84 cus027	85 cu3027	86 03027	87 CS0210	89 cn3056	90 CU3047	91 CU3047	92 cu3047					28 CU8042			02 CU3047	03 CU3047	04 CU3047	05 cu3047		07 cu3047		09 cu3047					_		15 CU302/					22 cu3027	23 CU3047	24 cu3059	25 CS0230	26 CU3047	27 CU3047
	No.	C280	C281	C282	C283	C284	C285	C286	C287	C289	CZ30	C291	C292	C293	C294	0.236	C297	8677	1083	C301	C302	1 0303	C304	C305	0306	C307	C308	C308	C310		C312	C313	C314	(315)	C317	C318	C319	c320	C321	C322	C323	C324	C325	C326	C327
	Parts Name	C1608JB1H472KT-A	C1508JB1H18ZKT-A	C1608JF1E104ZT-A	C1608JF1E104ZT-A	TMCMA03106WTR	C1608JF1E104Z1-A	C2012JB1C104KT-A	TACABICIOGRIR	C1608JB1H103KT-A	C1608JB1C473XT-A	TMCMA10335MTR	TNCMB1C106NTR	C1608JB1H332KT-A	TMCMA1E105MTR	INCMATE 105MTR	C16U8JBIC4/3K1-A	TMCMA10225MIR	C1608JB1H103KT-A	C1608JF1E473ZT-A	TMCMB1C106MTR	C1608JF1E473ZT-A	C1608JB1C333KT~A	C1608JB1H331K7-A	TMCMA1E684MTR	C1608JB1E223KT-A	ECEVICA470P	16MV330HC	C2012J81C104KT-A	16MV4 / 0HC	ECEV1CA470P	ECEVICA470P	ECEVICA4 / UP	C16U8JF1E4/3Z1-A	CZUIZOBICIO4KI~A TMCMASE105MTB	C1608JF1E104ZT-A	C1608JF1E104ZT-A	C1608CH1H181JT-A	C1608JB1H472KT-A	C1608JB1H222KT-A	C1608JB1H103KT-A	TMCMB1C106MTR	C1608J81E223KT-A	C2012JB1C104KT-A	C1508.381H10.3KT-A
	Description	Chip C.	Chip C.	Chip C.	Chip C.	ChipTantalum	Chip C.	Chip C.	ChipTantalum	Chip C.	Chip C.	ChipTantalum	ChipTantalum	Chip C.	ChipTantalum		י קיני	ChipTantalum	Chie C	Chip C.	ChipTantalum	Chip C.	Chip C.	Chip C.	ChipTantalum	Chip C.	Electrolytic C.	Electrolytic C.				Electrolytic C.	Electrolytic C.		Chintantalim	5 1 2		Chip C.	Chip C.	Chip C.	Chip C.	ChipTantalum	Chip C.	Chip C	Chin C
Unit	Parts No.	CU3043	cu3038	cu3059	cu3059	CS0367	cu3059	CU8042	CS0372	CU3047	CU3101	CS0371	CS0372	CU3041	CS0230	08790	101800	077050	cu3047	cu3056	CS0372	cu3056	cu3102	CU3029	CS0229	CU3051	CE0315	CE0352	CU8042	CE0353	CE0315	CE0315	CEU315	CU3056	CS0230	CU3059	CU3059	cu3026	CU3043	CU3039	CU3047	CS0372	CU3051	CU8042	C113047
MAIN	N Set	CZ33	C234	c236	C237	C233	c239	C240	C241	C242	C243	C244	C245	C245	C24/	£ 55	C253	(25)	C252	C253	C254	C255	C255	C257	C258	C259	C260	1977	C262	5977	C264	97.7	9973	1970	0022	C270	C271	C272	C273	C274	C275	C276	C277	C278	C273

No.	Parts No.	Description	Parts Name
C280	CS0230	ChipTantalum	TMCMA1E105MTR
C281	CE0315	Electrolytic C.	ECEV1CA470P
C282	CS0232	ChipTantalum	TMCMA1V474MTR
C283	CU3047	Chip C.	C1608JB1H103KT~A
C284	CU3027	Chip C.	C1608CH1H221JT-A
C285	CU3027	Chip C.	C1608CH1H221JT-A
C286	CU3027	Chip C	C1508CH1H221JT-A
C287	CS0210	ChipTantalum	TMCMB0J156MTR
C289	cu3056	Chip C.	C1608JF1E473ZT-A
CZ30	CU3047	Chip C.	C1608JB1H103KT-A
C291	CU3047	Chip C.	C1608JB1H103KT-A
C292	CU3047	Chip C.	C1608JB1H103KT-A
C293	CU3047	Chip C.	C1608JB1H103KT-A
C294	CU3059	Chip C.	C1608JF1E104ZT-A
c296	CU3047	Chip C.	C1608JB1H103KT-A
C297	cu3059	Chip C.	C1608JF1E104ZT-A
C298	CU8042	Chip C.	C2012JB1C104KT-A
C299	CU3047	Chip C.	C1608JB1H103KT-A
C300	CU3035	Chip C.	C1608JB1H102KT-A
C301	CU3047	Chip C.	C1608JB1H103KT-A
C302	CU3047	Chip C.	C1608JB1H103KT-A
C303	CU3047	Chip C.	C1608JB1H103KT-A
C304	CU3047	Chip C	C1508JB1H103KT-A
C305	CU3047	Chip C	C1608JB1H103KT-A
c306	CU3047	Chip C.	C1608JB1H103KT-A
C307	CU3047	Chip C.	C1608JB1H103KT-A
C308	cu3047	Chip C.	C1608JB1H103KT-A
6082	CU3047	Chip C.	C1608JB1H103KT-A
0310	cu3047	Chip C.	C1608JB1H103KT-A
C311	CU3047	Chip C.	C1608JB1H103KT-A
c312	cu3056	Chip C.	C1608JF1E473ZT-A
c313	CU3047	Chip C.	C1608JB1H103KT-A
C314	CU3047	chip C.	C1608JB1H103KT-A
315	cu3027	Chip C.	C1608CH1H221JT-A
316	cu3027	Chip C.	C1608CH1H221JT-A
C317	cu3027	Chip C.	C1608CH1H221JT-A
C318	cu3027	Chip C.	C1608CH1H221JT-A
C319	CU3027	Chip C.	C1608CH1H221JT-A
c320	CU3027	Chip C.	C1608CH1H221JT-A
C321	CU3027	Chrp C.	C1608CH1H221JT-A
C322	CU3027	Chip C.	C1608CH1H221JT-A
C323	CU3047	Chip C.	C1608JB1H103KT-A
C324	CU3059	Chip C.	C1608JF1E104ZT-A
c325	CS0230	ChipTantalum	TMCMA1E105MTR
C326	CU3047	Chip C.	C1608JB1H103KT-A

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	N. Se	Parts No.	Description	Parts Name
	C328	cu3047	Chip C.	C1608JB1H103KT-A
	C329	CU3047	Chip C.	C1608JB1H103KT-A
	C330	CU3047	Chip C.	C1608JB1H103KT-A
	C331	c03039	Chip C.	C1608JB1H222KT-A
	C332	cu3047	Chip C.	C1608JB1H103KT-A
	C333	cu3047	Chip C.	C1608JB1H103KT-A
	C334	cu3047	Chip C	C1608JB1H103KT-A
	C335	cu3047	Chip C.	C1608JB1H103KT-A
	C336	cu3047	Chip C.	C1608JB1H103KT-A
	C337	CU3047	Chip C.	C1608JB1H103KT~A
	C338	CU3047	Chip C.	C1608JB1H103KT-A
	C338	CU3047	Chip C.	C1608JB1H103KT-A
	C340		Chip C.	C1608JB1H103KT-A
	C341	cu3047	Chip C.	C1608JB1H103KT-A
	C342	CU3047	Chip C.	C1608JB1H103KT-A
	C343	CS0372	ChipTantalum	TMCMB1C106NTR
	C344	CU3047	Chip C.	C1608JB1H103KT-A
	C345	CU3044	Chip C.	C1608JB1H562KT-A
	C346	cu3047	Chip C.	C1608JB1H103KT-A
	C347	cu3027	Chip C.	C1608CH1H221JT-A
	C348	CU8042	Chip C.	C2012JB1C104KT~A
	C349	cu3056	Chip C.	C1608JF1E473ZT-A
	c350	cu3056	Chip C.	C1608JF1E473ZT-A
	C351	cu3035	Chip C.	C1608JB1H102KT-A
	C352	CU3004	Chip C.	C1608CH1H030CT-A
	C353	CU3047	Chip C.	C1608JB1H103KT-A
	S.	UE0235	Connector	00-6208-000-112-001
	CN2	UE0043	Connector	P122A02M
	CN3	UE0070	Connector	P122A04M
	CN4	UE0071	Connector	P122A05M
	CNS	UE0044	Connector	P122A09W
	CN6	UE0259	Connector	CFP0526-0201
	CN9	UE0260	Connector	09PS-JE
_	CN		Connector	P122A02M
	CN12		Connector	IMSA-91208-13
	CN13	UE 0262	Connector	IMSA-9120B-13
	<u>10</u>	xD0272	Diode	1SS356 TW11
	D2	XD0272	Diode	1SS356 TW11
	2	x00266	Diode	DAP236U T106
	05	XD0254	Diode	1SS355 TE-17
	<u>8</u>	xD0246	Diode	DAN235UT106
	D7	xD0289	Diode	\$3275(TE12L)
	82	xD0246	Diode	DAN235UT106
	8	xD0246	Diode	DAN235UT106
	010	xD0231	Diode	DAP202U T106
_	110	XD0231	Diode	DAP202U T106

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ription	Parts Name	S S	Parts No.	Description	
ن	C1608JB1H103KT-A	620	XD0246	Diode	
ن	C1608JB1H103KT-A	030	XD0246	Diode	
ပ	C1608JB1H103KT-A	033	xD0234	Diode	-
ú	C1608JB1H222KT-A	D34	xD0234	Diode	
ن	C1608JB1H103KT-A	180	XD0272	Diode	_
ن	C1608JB1H103KT-A	980	XD0272	Diode	
ن	C1608JB1H103KT-A	039	XD0272	Diode	_
ن	C1608JB1H103KT-A	D40	xD0272	Diode	
ن	C1608JB1H103KT-A	141	xD0272	Diode	_
ن	C1608JB1H103KT~A	D42	XD0272	D⊥ode	_
ن	C1608JB1H103KT-A	043	xD0272	Diode	_
ن	C1608JB1H103KT-A	D44	XD0272	Diode	
نې	C1608JB1H103KT-A	D45	xD0272	Diode	_
ن	C1608JB1H103KT-A	046	XD0272	Diode	_
ن	C1608JB1H103KT-A	D47	XD0272	Diode	_
Tantalum	TMCMB1C106MTR	048	x00272	Di ode	_
ن	C1608JB1H103KT-A	046	XD0246	Diode	\Box
ن	C1608JB1H562KT-A	020	XD0254	Diode	-
ن	C1608JB1H103KT-A	151	XD0234	Diode	-
ن ن	C1608CH1H221JT-A	052	. x00272	Diode	
ن	C2012JB1C104KT~A	053	XD0234	Diode	-
ن	C1608JF1E473ZT-A	54	XD0234	Diode	-
ن	C1608JF1E473ZT-A	055	xD0230	Diode	
ڼ	C1608JB1H102KT-A	950	xD0230	Diode	
ن	C1608CH1H030CT-A	150	xD0254	Diode	
ن	C1608JB1H103KT-A	058	XD0254	Diode	_
ector	00-6208-000-112-001	023	xD0231	Diode	
ector	P122A02M	090	XD0254	Diode	
ector	P122A04M	290	XD0254	Diode	-
ector	P122A05M	063	XD0231	Diode	
ector	P122A09#	964	xD0140	Diode	_
ector	CFP0526-0201	992	XD0254	Diode	_
ector	09PS-JE	990	xD0254	Diode	_
ector	P122A02M	290	x00231	Diode	
ector	IMSA-91208-13	890	xD0230	Diode	
ector	IMSA-91208-13	690	xD0254	Diode	_
E	188356 TW11	070	xD0254	Diode	-
	188356 TW11	170	XD0231	Diode	
•	DAP236U T106	D72	XD0254	Diode	
e e	1SS355 TE-17	D73	xD0254	Diode	_
	DAN235UT106	074	XD0254	Diode	
e	S3275 (TE12L)	510	XD0254	Diode	
•	DAN235UT106	910	XD0254	Di ode	
Φ.	DAN235UT106	110	XD0254	Diode	_
•		078	XD0254	Diode	
	DAP202U T106	D79	XD0254	Diode	\Box

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Š	Parts No.	Description	Parts Name	ž S
080	x00230	Diode	DAN202U T106	1014
D82	xD0230	Diode	DAN202U T106	1015
580	xD0254	Diode	1SS355 TE-17	1016
D84	xD0254	Diode	1SS355 TE-17	101
282	XD0254	Diode	1SS355 TE-17	1018
980	XD0231	Diode	DAP202U T106	1019
980	xD0254	Diode	1SS355 TE-17	1020
580	x00231	Diode	DAP202U T106	1021
060	xD0230	Diode	DAN202U T106	1022
160	xD0230	Di ode	DAN202U T106	1023
260	XD0254	Diode	1SS355 TE-17	1024
660	XD0231	Diode	DAP202U T106	5
D94	xD0230	Diode	DAN202U T106	55
260	xD0231	Diode	DAP202U T106	, J
960	xD0254	Diode	1SS355 TE-17	55
760	XD0254	Diode	1SS355 TE-17	L2
660	XD0254	Di ode	1SS355 TE-17	F3
0010	XD0254	Diode	1SS355 TE-17	7
1010	xD0230	Diode	DAN202U T106	1.5
2010	xD0230	Diode	DAN202U T106	97
D103	XD0254	Diode	1SS355 TE-17	17
104	XD0254	Diode	1SS355 TE-17	R3
9010	xD0230	Diode	DAN202U T106	67
1010	XD0254	Diode	1SS355 TE-17	L10
8010	XD0230	Diode	DAN202U T106	=
6010	xD0230	Diode	DAN202U T106	717
0110	XD0254	Diode	1SS355 TE-17	L13
1110	XD0254	Diode	1SS355 TE-17	L14
FB:	0B0037	Ferrite Beads	ZBF253D-00	L15
딘	XF0017	Crystal Filter	71M1584 UM3	L16
FL2	xC0012	•	Ceramic Filter CFJ455K8	L17
FL3	xC0011	Ceramic Filter	CFJ455K5	L18
FL4	xC0017	Ceramic Filter	CFW455G	L19
FL5	XF0021	Crystal Filter	71M15A2	L20
22	XA0300	2	AN612	171
<u>ප</u>	XA0300	2	AN512	1.48
<u> </u>	XA0224	2	N.M2904M-T1	149
55	xA0236	<u> </u>	BU4052BCF-T1	L50
9	XA0115	ņ.	TC4S66F-TE85L	57
157	x40063	ິ	MC3357DR	L52
82	XA0224	<u>.</u>	NJM2904M-T1	123
<u>.</u>	XA0224	ñ	N_M2904M-T1	L54
0131	xA0299	22	BU40018F	1.55
113	XA0082	2	MC7808CT	951
1012	XA0068	10	M5218FP-T01-1	ר24
553				

<u>.</u>	Darte No	December	Dayle Manne
٥	200	in in income	alito natile
1014	XA0224	ပ္	NJM2904M-T1
1015	XA0246	2	BU4094BF-T1
616	XA0114	2	UPD6345GS-T1
C17	XA0224	ည	NJM2904M-T1
C18	XA0299	2	BU4001BF
613	XA0294	2	MC74HC390FL2
1020	XA0079	2	MPC1241H
1231	XA0068	2	M5218FP-T01-1
1022	XA0114	ပ္	UPD6345GS-T1
1023	XA0114	2	UPD6345GS-T1
1024	XA0299	2	BU4001BF
5	UE0041	Connector	TMP-J01x-V6
27	UE0041	Connector	TMP-J01X-V6
4	UE0041	Connector	NP-J01X-V6
5	UE0041	Connector	TMP-J01x-V6
-7	QR 0017	- i o	QR0017
E3	0C0061	Chip L.	NL322522T-033J
3	ac0126	Chip L	NL322522T-R22J-3
-5	000039	Chip L	NL322522T-1R0J
-6	001127	Chip L.	NL322522T-R27J-3
[]	000061	Chip L	NL322522T-033J
89	OR0017	- 3	GR0017
67	0A0108	Cois	0A0108
2	QA0107	1:00	QA0107
=	QA0107	Co I	0A0107
717	QA0107	Coil	DA0107
[13	0A0107	Coil	0A0107
L14	QR0017	Coil	OR0017
L15	ac0039	Chip L.	NL3225227-1R0J
9	a R0017	Coil	aR0017
=	000078	Chip L.	NL322527-220J
L18	0A0119	Co i	DA0119
L19	000074	chip L	NL322522T-8R2J
 [20	000072	Chip L.	NL322522T-5R6J
121	000493		L0H4N471J04
 8+1	000493	Chip L	L0H4N471J04
- 643	000493	Chip L	LOH4N471J04
	000493	Chip L	L0H4N471J04
15.	OR0017	Cail	OR0017
L52	000124	Chip L.	NL322522T-R15J-3
L53	000124	Chip L.	NL322522T-R15J-3
154	000124	Chip L.	NL322522T-R15J-3
L55	QR0017	Coil	OR0017
1.56	040108	Soil	0A0108
157	QA0107	Coil	OA0107
L58	0A0107	Coil	QA0107

Parts Name	0A0107	NL322522T-4R7J	NL322522T-039J	NL322522T-R12J-3	QA0119	0A0119	QA0119	QA0119	LOH4N471J04	0A0119	QA0119	NL322522T-100J	NL322522T-100J	NL322527-1R0J	NL322522T-220J	NL322522T-1R2J	NL322522T-100J	NL322522T-101J	0R0017	NL322522T-2R7J	2SC2954-T1	3SK131V12T1	3SK131Y12T1	3SK131V12T1	UN5211-TX	3SK131V12T1	2SK2171-4	23K2 }-4	25K2111-4	35K131V12T1	2SC2954-T1	2SA1576T106R	2SC4081T106R	2SC4081T106R	2SC4081T106R	2SC4081T106R	FE3SK131V12T1	UN521L-TX	35K131V12T1	35K131V1211	2SC4081T106R	2SC4081T106R	DTC144EUT106	2SC4081T106R
Description	: .8	Chip L.	Chip L.	Chip L.	-io3	- 20	Coil	 	Chip L.	-i.es		Chip L.	Chip L.	Chip L.	Chip L	Chip L.	Chip L.	Chip L.	- i o	Chip L.	Transistor	FET	FET	FET	Transistor	FET	FET !	<u> </u>		Ħ	Transistor	Transistor	Transistor	Transistor	ansi	Transistor		Transistor	¥ 1		Transistar	Transistor	Transistor	Transistor
Parts No.	0A 0107	000047	00000	000123	040119	0.00119	0A0119	QA0119	000493	0A0119	0 4 0119	000048	000048	000039	920000	000040	OC0048	980000	OR0017	000044	XT0084	xE0028	XE0028	xE0028	x00061	xE0028	xE0026	AEUUZB	XEDU26	XE0028	XT0084	XT0094	XT0095	XT0095	XT0095	XT0095	xE0028	x00078	XEOUZ8	XE0028	XT0095	XT0095	XU0148	XT0095
Ref.	1.59	L60	re1	797	re3	, Fe	L65	997	197	re8	697	170	L71	1.72	1.73	L75	1.76	127	F80	<u>8</u>	6	63	40	35	90	07	8 8	3 5	3 6	012	013	014	015	916	018	019	050	021	770	024	925	920	120	820

Nef.	Parts No.	Description	Parts Name
029	xU0148	Transistor	DTC144EUT106
030	xT0094	Transistor	2SA1576T106R
031	xT0095	Transistor	2SC4081T106R
032	x00061	Transistor	UN5211-TX
033	XT0136	Transistor	2SD1664
034	xn00e1	Transistor	UN5211-TX
035	XT0136	Transistor	2SD1664
980	x00148	Transistor	DTC144EUT106
037	XT0095	Transistor	2SC4081T106R
038	x00148	Transistor	DTC144EUT106
033	XT0095	Transistor	2SC4081T106R
040	x00021	Transistor	UN511F-TX
041	XU0049	Transistor	UNAGTR
042	x00049	Transistor	UMAGTR
043	x00049	Transistor	UMAGTR
044	x00049	Transistor	UMA9TR
045	xU0047	Transistor	UMC3TR
046	xu0061	Transistor	UN5211-TX
047	XT0095	Transistor	2SC4081T106R
048	XU0148	Transistor	DTC144EUT106
049	xT0094	Transistor	2SA1576T106R
050	XT0095	Transistor	2SC4081T106R
051	XT0127	Transistor	2SC3419-Y
05 2	x000e1	Transistor	UN5211-TX
053	x00061	Transistor	UN5211-TX
054	XT0095	Transistor	2SC4081T106R
055	xu0148	Transistor	DTC144EUT106
950	XT0111	Transistor	2SC4081LNT106S
057	x00116	Transistor	DTA123EUT106
058	xU0112	Transistor	DTA114YUT106
059	xu0112	Transistor	DTA114YUT106
090	XT0095	Transistor	2SC4081T106R
190	x00047	Transistor	UMC3TR
790	x000e1	Transistor	UN5211-TX
063	XU0148	Transistor	DTC144EUT106
064	XT0029	Transistor	DTC114YUT106
90	x00148	Transistor	DTC144EUT106
990	x00061	Transistor	UN5211-TX
Ē	PK3026	Chip R.	ERJ3GSYJ101V
R2	FK3013	Chip R.	ERJ3GSYJ8R2V
R3	RK3038	Chip R.	ERJ3GSYJ102V
7	RK3042	Chip R.	ERJ3GSYJ222V
52	RK3032	Chip R.	ERJ3GSYJ331V
R7	RK3038	Chip R.	ERJ36SYJ102V
82	PK3037	Chip R.	ERJ3GSYJ821V

2	Parts No.	Description	Parts Name	S S	Parts No.	Description
B10	FK3034	Chip R.	ERJ3GSYJ471V	R76	PK3013	Chip R.
R11	PK3035	Chip R.	ERJ3GSYJ561V	RT7	PK3020	
R12	PK3042	Chip R.	ERJ3GSYJ222V	878	PK3040	Chip R.
R13	PK3018		ERJ3GSYJ220V	R79	PK 3022	
4 7	PK 3030		ERJ3GSYJ221V	780 0	PK3030	
C1 R	PK3049	Chip K	ERJ3GSYJ822V	1881	FK 3058	
817	PK3038		ER 1363Y 1102V	700	7000 M	5 5 2 1
R18	RK3040		ERJ36SYJ152V	R84	PK 3032	
R19	PK3050	Chip R.	ERJ3GSYJ103V	R85	PK3050	
R20	PX3026	Chip R.	ERJ3GSYJ101V	R86	RK3026	
R21	PK3034	Chip R.	ERJ3GSYJ471V	R87	PK3042	
R22	PK3030	Chip R.	ERJ363YJ221V	888	PK3050	Chip R.
R23	FK3026		ERJ3GSYJ101V	890	PK3042	
R25	PK3042		ERJ36SYJ222V	H89	PK3062	
R26	PK3046		ERJ3GSYJ472V	791	PK3054	
27.0	PK3038		ERJ36SYJ102V	R92	PK3026	
674	M3038	Chip R.	ERJ365YJ102V	33	FX 3022	
R31	RK3034	Chip R	ERJ3GSYJ471V	798	PK 3034	2 E
R32	PK3066	Chip R.	ERJ3GSYJ224V	R96	PK3043	
R33	PK3026	Chip R.	ERJ3GSYJ101V	R97	PK3058	
R34	PK3058	Chip R.	ERJ3GSYJ473V	R98	PK3038	Chip R
R35	PK3050	Chip R.	ERJ363YJ103V	R99	PX3042	Chip R.
R36	FK3030		ERJ3GSYJ221V	R100	PK 3070	Chip R.
R37	FX 3023	Chip R.	ERJ3GSYJ560V	R101	PK3026	Chip R.
F.38	PK 1025		ERJ8GEY 3331V	R102	PK 3034	
2 2	FA3031		EKJ36SYJ271V	R103	14 3020	
5 5	HX3018	다. 명 : 1 명 : 1	ERJ3GSYJ220V	R104	PK 3026	Chip R d
RGO	PK4068		ER.1147.1151H	8108	BK 3051	
RGI	PK3050		ERJ3GSYJ103V	R107	PK 3034	
R62	FK.4088	Chip R.	ERJ147J561H	R108	PK 3046	Chip R
R63	PK3035	Chip R.	ERJ3GSYJ561V	R109	PK3046	Chip R.
R64	FK:3034	Chip R.	ERJ3GSYJ471V	8110	PK 3045	Chip R.
R65	PX:3022	Chip R.	ERJ365YJ470V	RIII	PK3050	Chip R
H66	PK3054	Chip R.	ERJ3GSYJ223V	R112	PK3030	Chip R.
R67	PK3074		ERJ3GSYJ105V	R113	FK 3030	Chip R.
R68	PK3026		ERJ3GSYJ101V	R114	PK3030	Chip R.
R69	FX3034		ERJ3GSYJ471V	R115	RK3042	
R 70	PK3043		ERJ36SYJ272V	R116	PX 3046	
R71	PK3026		ERJ3GSYJ101V	R117	PK3046	
714	PK.3044		ERJ3GSYJ332V	R118	FX 3046	
773	PK-3032		ERJ3G5YJ331V	R119	18 (3030	
1 1	W.3044	e 1	En.3031.0332.v	M120	MA 30.30	2 2 2
2	00000		75U 13U 20			

N. So.	Parts No.	Description	Parts Name
876	RK3013	ج ا	ER 1200 1880 V
77.	BK3020		ER 1965Y 1220V
970	070036		F10000100004
9 6	04.004.0	2 0	ERJ365YJ152V
	77000	2 6	Enuges104/0v
28	RK3058	÷ 4	ERJ3657JZZ1V ERJ3657JZZ1V
60	DAY DOES		202000000000000000000000000000000000000
707 RB3	7C02W	e :	ERJ3GSYJ153V ER 13CSY 1163W
3 6	0000	- i	Enugasia 1024
404	MX3U32	£ 5	ERJ3GSYJ331V
9	0000	5. Z	EKJ365YJ103Y
984	RK3026	Chip R	ERJ3GSYJ101V
R87	FK3042	Chip R.	ERJ3GSYJ222V
888	PK 3050	Chip R.	ERJ3GSYJ103V
R90	FK3042	Chip R.	ERJ3GSYJ222V
. 68H	RK3062	Chip R.	ERJ3GSYJ104V
791	PK3054	Chip R.	ERJ3GSYJ223V
R92	PK3026	Chip R.	ERJ3GSYJ101V
R93	FK3022	Chip R	ERJ3GSYJ470V
H94	FK3034	Chip R.	ERJ3GSYJ471V
R95	PK3078	Chip R.	ERJ3GSYJ225V
R96	PK3043	Chip R.	ERJ3GSYJ272V
R97	PK3058	Chip R.	ERJ3GSYJ473V
R98	PK3038	Chip R	ERJ3GSYJ102V
R99	PX3042	Chip R.	ERJ3GSYJ222V
R100	PK 3070	Chip R.	ERJ3GSYJ474V
R101	PK3026	Chip R.	ERJ3GSYJ101V
R102	PK3034	Chip R.	ERJ3GSYJ471V
R103	PK 3050	Chip R.	ERJ3GSYJ103V
R104	PK3026	Chip R	ERJ3GSYJ101V
R105	FK 3050	Chip R.	ERJ3GSYJ103V
R106	PK3051	Chip R.	ERJ3GSYJ123V
R107	PK 3034	Chip R.	ERJ3GSYJ471V
R108	PK3046	Chip R	ERJ3GSYJ472V
R109	PK3046	Chip R	ERJ3GSYJ472V
811 0	PK 3045	Chip R.	ERJ3GSYJ392V
R111	PX3050	Chip R	ERJ3GSYJ103V
R112	PK3030	Chip R.	ERJ3GSYJ221V
R113	FX 3030	Chip R.	ERJ3GSYJ221V
R114	PK3030	Chip R.	ERJ3GSYJ221V
R115	RK3042	Chie R.	ERJ3GSYJ222V
R116	PX3046	Chip R.	ERJ3GSYJ472V
R117	PK3046	Chip R.	ERJ3GSYJ472V
R118	FX3046	Chip R	ERJ3GSYJ472V
R119	PK3030	Chip R.	ERJ3GSYJ221V
R120	FK3030	Chip R	ERJ3GSYJ221V
R121	PK3030	Chip R	ERJ3GSYJ221V

S. S.	Parts No.	Description	Parts Name
R122	PK 3051	Chip R.	ERJ3GSYJ123V
R123	PK 3050	Chip R.	ERJ3GSYJ103V
R124	PK 3050	Chip R.	ERJ3GSYJ103V
R125	PK 3058	Chip R.	ERJ3GSYJ473V
R126	PK3026	Chip R.	ERJ3GSYJ101V
R127	PK 3026	Chip R.	ERJ3GSYJ101V
R128	PK3034	Chip R.	ERJ3GSYJ471V
R130	PK3050	Chip R.	ERJ3GSYJ103V
R131	PK3026	Chip R	ERJ3GSYJ101V
R132	PK3054	Chip R.	ERJ3GSYJ223V
R133	PK3026	Chip R.	ERJ3GSYJ101V
R134	PK3058	Chip R.	ERJ365YJ473V
R135	FK3059	Chip R	ERJ3GSYJ563V
R136	FK3042	Chip R.	ERJ3GSYJ222V
R137	PK3042	Chip R	ERJ3GSYJ222V
H138	PK 3032	Chip R.	ERJ36SYJ331V
R139	FX3070	_	ERJ3GSYJ474V
B140	PK3047	Chip R.	ERJ3GSYJ562V
R141	PK 3062	Chip R.	ERJ3GSYJ104V
R142	FK 3038	Chip R.	ERJ3GSYJ102V
R143	PK 3042	Chip R.	ERJ3GSYJ222V
R144	PK 3026	Chip R.	ERJ3GSYJ101V
R145	RK 3058	Chip R.	ERJ3GSYJ473V
R146	FK 3074	Chip R	ERJ3GSYJ105V
R147	PK 3038	Chip R	ERJ3GSYJ102V
R148	PK 3038	Chip R.	ERJ36SYJ102V
R149	PK3045	Chip R.	ERJ3GSYJ392V
R150	PK3026	Chip R.	ERJ3GSYJ101V
R151	PK3050	Chip R.	ERJ3GSYJ103V
R152	PK 3048	Chip R.	ERJ3GSYJ682V
R153	PK 3052	Chip R.	ERJ3GSYJ153V
R154	RK3044	Chip R.	ERJ3GSYJ332V
R155	PK 3068	Chip R.	ERJ3GSYJ334V
R156	FK 3050	Chip R.	ERJ3GSYJ103V
R157	PK 3058	Chip R.	ERJ3GSYJ473V
R158	PK3051	Chip R.	ERJ36SYJ123V
R159	PK3058	Chip R.	ERJ3GSYJ473V
R160	PK 3050	Chip R.	ERJ3GSYJ103V
R161	RK3058	Chip R.	ERJ3GSYJ473V
R162	PK3030	Chip R.	ERJ3GSYJ221V
R163	PK3050	Chip R	ERJ3GSYJ103V
R164	PK3062	Chip R.	ERJ3GSYJ104V
R165	RK3046	Chip R.	ERJ3GSYJ472V
R166	PK 3050	Chip R	ERJ3GSYJ103V
R167	PK3034		ERJ3GSYJ471V
R168	PK3076	Chip R.	ERJ3GSYJ155V

₽. Ş. Ş.	Parts No.	Description	Parts Name
R169	PK 3062	Chip R.	ERJ3GSYJ104V
R170	PK3058		ERJ3GSYJ473V
R171	PK3038	_	ERJ3GSYJ102V
R172	PK3050	Chip R.	ERJ3@YJ103V
R173	PK3058	Chip R.	ERJ3GSYJ473V
R174	PK3001	Chip R.	ERJ3GSY0R00V
R175	RK3044	Chip R.	ERJ3GSYJ332V
R176	PK3048	Chip R.	ERJ3GSYJ682V
R177	PK3044	Chip R.	ERJ3GSYJ332V
R178	PK3058	Chip R.	ERJ3GSYJ473V
R179	PK3050	Chip R.	ERJ3GSYJ103V
R180	PK3049	Chip R.	ERJ3GSYJ822V
R181	PK3026	Chip R.	ERJ3GSYJ101V
R182	PX3054	Chip R	ERJ3GSYJ223V
R183	PK3050	Chip R	ERJ3GSYJ103V
R184	PK3050	Chip R	ERJ36SYJ103V
R185	PK3050	Chip R.	ERJ3GSYJ103V
R186	PK3058	Chip R.	ERJ3GSYJ473V
R187	PK3050	Chip R.	ERJ3GSYJ103V
R188	PK3060	Chip R.	ERJ3GSYJ683V
R189	PK 3062	Chip R	ERJ3GSYJ104V
R190	PK 3062	Chip R.	ERJ3GSYJ104V
R191	PK3059	Chip R.	ERJ3GSYJ563V
R192	FK3058	Chip R.	ERJ3GSYJ473V
R193	PK3058	Chip R	ERJ3GSYJ473V
R194	PK3056	Chip R	ERJ3GSYJ333V
R195	PK3064	Chip R	ERJ3GSYJ154v
R196	RK3054	Chip R	ERJ36SYJ223V
R197	PK 3056	Chip R	ERJ3GSYJ333V
R198	PK3074	Chip R	ERJ3GSYJ105V
R199	FK 3058	Chip R	ERJ30SYJ473V
R200	PK3068	Chip R.	ERJ36SYJ334V
R201	PK3067	Chip R	ER.1305Y.J274V
R202	PK3068	Chip R.	ERJ36SYJ334V
R203	RK3042	Chip R	ERJ36SYJ222V
R204	PK3074	Chip R	ERJ36SYJ105V
R205	FK3034	Chip R	ERJ3GSYJ471V
R206	FK 3051	Chip R	ERJ3GSYJ123V
H209	PK3032	Chip R	ERJ365YJ331V
F212	PK3045	Chip R.	ERJ36SYJ392V
R213	PK3046	Chip R	ERJ3GSYJ472V
R214	PK3049	Chip R.	ERJ3GSYJ822V
R215	FK 3074	Chip R	ERJ36SYJ105V
R216	FX3074	Chip R	ERJ36SYJ105V
R217	FK3062	Chip R.	ERJ3GSYJ104V

Parts No. Description

Chip R. Chip R.

RK3058 RK3058

R311 R312 R313 R314 R315 R315

Chip R.

RK3074 RK3050 RK3050 RK3054
RK3038
RK3057
RK3056
RK3056
RK3058

R318

R319 R320 R321 R323

Chip R

RK3058 RK3038 RK3046

				MAIN Unit
Parts Name	S S	Parts No.	Description	Parts Name
ERJ3GSYJ105V	R357	PK3030	Chip R.	ERJ3GSYJ221V
ERJ3GSYJ103V	R358	RX3045	Chip R.	ERJ3GSYJ392V
ERJ3GSYJ103V	R359	RK3030	Chip R.	ERJ3GSYJ221V
ERJ3GSYJ473V	R350	RK3066	Chip R	ERJ3GSYJ224V
ERJ3GSYJ473V	R361	PK 0020	Chip R	ERJ6GEYJ151V
ERJ3GSYJ473V	R362	PK3018	Chip R.	ERJ3GSYJ220V
ERJ3GSYJ102V	R363	PtK 3018	Chip R.	ERJ3GSYJ220V
ERJ3GSYJ472V	R364	PK3048	Chip R.	ERJ3GSYJ682V
ERJ3GSYJ223V	R365	RX 3042	Chip R.	ERJ3GSYJ222V
ERJ3GSYJ102V	R366	PK3042	Chip R.	ERJ3GSYJ222V
ERJ3GSYJ393V	R367	PK3040	Chip R.	ERJ3GSYJ152V
ERJ3GSYJ393V	R368	FK3001	Chip R.	ERJ3GSY0R00V
ERJ3GSYJ333V	R369	RK3050	Chip R.	ERJ3GSYJ103V
ERJ3GSYJ102V	R370	FK 3050	Chip R.	ERJ3GSYJ103V
ERJ3GSYJ103V	R371	PK 3050	Chip R.	ERJ3GSYJ103V
ERJ3GSYJ103V	R372	RX3050	Chip R	ERJ3GSYJ103V
ERJ3GSYJ154V	R373	PK 3050	Chip R.	ERJ36SYJ103V
ERJ3GSYJ684V	R374	PK 3050	Chip R.	ERJ3GSYJ103V
ERJ3GSYJ104V	R375	PK 3050	Chip R.	ERJ3GSYJ103V
ERJ3GSYJ222V	R376	PK3050	Chip R.	ERJ3GSYJ103V
ERJ3GSYJ104V	R377	PK 3064	Chip R.	ERJ3GSYJ154V
ERJ3GSYJ223V	R378	RK 3050	Chip R.	ERJ30SYJ103V
ERJ3GSYJ273V	R379	RK 3050	Chip R.	ERJ36SYJ103V
ERJ3GSYJ102V	R380	PK 3050	Chip R.	ERJ3GSYJ103V
ERJ3GSYJ101V	R381	PK 3058	Chip R	ERJ3GSYJ473V
ERJ36SYJ224V	R382	PK 3050	Chip R.	ERJ3GSYJ103V
ERJ3GSYJ102V	R383	RK3053	. Chip R.	ERJ3GSYJ183V
ERJ3GSYJ101V	R384	FK3054	Chip R.	ERJ3GSYJ223V
ERJ3GSYJ222V	R385	FK3047	Chip R.	ERJ3GSYJ562V
ERJ3GSYJ222V	R386	PK3026	Chip R.	ERJ3GSYJ101V
ERJ3GSYJ471V	R388	RK3034		ERJ3GSYJ471V
ERJ3GSYJ471V	R389	RK3034		ERJ3GSYJ471V
ERJ3GSYJ103V	R390	FK 3053		ERJ36SYJ183V
ERJ8GEYJ102V	R391	RX3064	Chip R.	ERJ36SYJ154V
ERJ3GSYJ471V	R392	RK3050		ERJ36SYJ103V
ERJ3GSYJ471V	R393	PK 3042	Chip R.	ERJ36SYJ222V
ERJ3GSYJ471V	R394	PK 3058	Chip R.	ERJ36SYJ473V
ERJ3GSYJ103V	R395	PK3066	Chip R.	ERJ36SYJ224V
ERJ3GSYJ472V	R396	FK3042	Chip R.	ERJ36SYJ222V
ERJ3GSYJ103V	R397	PK 1023	Chip R.	ERJ8GEYJ271V
ERJ3GSYJ391V	R398	PX 3054	Chip R	ERJ36SYJ223V
ERJ3GSYJ120V	R399	RK3054	Ch.p R	ERJ3GSYJ223V
ERJ3GSYJ680V	R400	RK3054		ERJ3GSY3223V
ERJ3GSYJ391V	R401	PK 3054		ERJ3GSYJ223V
ERJ3GSYJ154v	R402	RK3054		ERJ3GSYJ223V
ERJ3GSYJ472V	P404	RK3062	Chip R	ERJ3GSYJ104V

Chip R. Chip R. Chip R.

R328

PK 3050 RX 3064 PK3072 FK 3062 PX 3042 RK3062 RK 3054 RX 3055 PK 3038 PK3026 RK3066 PK 3038 RK3026 PK 3042 PK 3042 RK3034 RK 3034 RX3050 RK1035 RK3034 RK3034 RK3034 RK3050

R324 R325 R326 R327

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RZEK	PK 2058	4	FR 1905 Y 1473V
2020	ocnew.		ENJ36313413V
2070	100000		
H26/	FK 3053		ERJ3GSYJ183V
R268	RK3034	Chip R	ERJ3GSYJ471V
R269	FK 3058	Chip R.	ERJ3GSYJ473V
R270	FK 3054	Chip R.	ERJ3GSYJ223V
R271	RK3074	Chip R.	ERJ3GSYJ105V
R272	PK3050	Chip R.	ERJ3GSYJ103V
R273	PK3054	Chip R.	ERJ3GSYJ223V
R274	PK 3070	Chip R	ERJ3GSYJ474V
R275	- PK3062	Chip R.	ERJ3GSYJ104V
R276	FK3070	Chip R.	ERJ3GSYJ474V
R277	RK3058	Chip R.	ERJ3GSYJ473V
R278	RK 3058	Chip R.	ERJ3GSYJ473V
R279	RK3058	Chip R.	ERJ3GSYJ473V
R280	PK 3080	Chip R.	ERJ3GSYJ335V
R281	PK3080	Chip R.	ERJ3GSYJ335V
R282	PK3074	Chip R.	ERJ3GSYJ105V
R283	PK3067	Chip R.	ERJ3GSYJ274V
R284	RK3050	Chip R.	ERJ36SYJ103V
R285	PK3042	Chip R.	ERJ3GSYJ222V
R286	PK3074	Chip R.	ERJ3GSYJ105V
R287	RK3035	Chip R.	ERJ3GSYJ561V
R288	RK 3048	Chip R.	ERJ3GSYJ682V
R289	PK 3050	Chip R	ERJ3GSYJ103V
R290	RK 3026	Chip R.	ERJ3GSYJ101V
R291	RK 3038	Chip R.	ERJ3GSYJ102V
R292	RK3058	Chip R.	ERJ3GSYJ473V
R293	RK3054	Chip R.	ERJ3GSYJ223V
R294	RK3045	Chip R	ERJ3GSYJ392V
R295	PK 3030	Chip R	ERJ3GSYJ221V
R296	RK 3050	Chip R	ERJ3GSYJ103V
R297	PK3050	Chip R.	ERJ3GSYJ103V
R298	RK3050	Chrp R.	ERJ3GSYJ103V
R299	FK 3057	Chip R.	ERJ3GSYJ393V
R300	FK 3058	Chip R.	ERJ3GSYJ473V
R301	RK3050	Chip R.	ERJ3GSYJ103V
R302	RK3045	Chip R.	ERJ3GSYJ392V
R303	PK 3070	Chip R	ERJ3GSYJ474V
R304	FK 0022	Chip R.	ERJ6GEYJ221V
R305	PK 0022	Chip R	ERJ6GEYJ221V
R306	PK0114	Chip R.	ERJ6GEYJ010V
R307	PK 3026	Chip R.	ERJ3GSYJ101V
R308	PK3001	Chip R	ERJ3GSY0R00V
R309	FIX 3048	Chip R.	ERJ3GSYJ682V
		2	V1001 V2001 BB

R329 R330 R331 R333 R333

R336 R338 R339 R340 Chip R. Chip R.

RX 3064 RX 3046

R351 R352 R353 R354 R355

Ch to R. Ch to Ch

R344 R345 R346 R347 R349 R349

R343

R342

RK3046 RK3050 RK3033 RK3015 RK3024 RK3033

Ref.	:		
ġ	Parts No.	nescribrion	Lails Maine
R219	PK 3074	Chip R.	ERJ3GSYJ105V
R220	RK 3074	Chip R.	ERJ3GSYJ105V
R221	PK 3070	Chip R.	ERJ3GSYJ474V
R222	RK3047	Chip R.	ERJ36SYJ562V
R223	PX 3034	Chip R.	ERJ3GSYJ471V
R224	RK3050	Chip R.	ERJ3GSYJ103V
R225	RK 3030	Chip R	ERJ3GSYJ221V
R226	RK3049	Chip R.	ER.J3GSYJ822V
R227	FK 3070	Chip R.	ERJ3GSYJ474V
R228	FK 3070	Chip R.	ERJ3GSYJ474V
R229	RK 4082	Chip R.	ERJ14YK4R7H
R230	RX 1035	Chip R	ERJ8GEYJ102V
R231	PK 4082	Chip R.	ERJ14YK4R7H
R232	PK 1035	Chip R.	ERJ8GEYJ102V
R233	PK 3054	Chip R.	ERJ36SYJ223V
R234	PX 3058	Chip R.	ERJ3GSYJ473V
R235	PK 3050	Chip R.	ERJ3GSYJ103V
R236	PK 3001	Chip R.	ERJ3GSY0R00V
R237	PK 3057	Chip R.	ERJ36SYJ393V
R238	RK 3057	Chip R.	ERJ36SYJ393V
R239	RK 3062	Chip R	ERJ3GSYJ104V
R240	RK3042	Chip R.	ERJ3GSYJ222V
R241	FK 3053	Chip R.	ERJ3GSYJ183V
R242	RK3060	Chip R.	ERJ3GSYJ683V
R243	PK 3050	Chip R.	ERJ36SYJ103V
R244	FK 3062	Chip R.	ERJ3GSYJ104V
R245	PK 3060	Chip R.	ERJ36SYJ683V
R246	FK 3056	Chip R.	ERJ3GSYJ333V
R247	PK3056	Chip R.	ERJ3GSYJ333V
R248	RK3054	Chip R	ERJ36SYJ223V
R249	PK 3062	Chip R	ERJ3GSYJ104V
R250	RK 3050	Chip R.	ERJ3GSYJ103V
R251	RK 3046	Chip R	ERJ36SYJ472V
R252	RK 3062	Chip R	ERJ3GSYJ104V
R253	RX 3050	e e E	ERJ36SYJ103V
R254	FX 3026	Chip R.	ERJ3GSYJ101V
R255	RK 3069	Chip H	ERJ36SYJ394V
R256	RK 3071	Chip R.	ERJ3GSYJ564V
R257	FX 3074	Chip R.	ERJ3GSYJ105V
R258	RK 3041	Chip R.	ERJ36SYJ18ZV
R259	RK3052	Chip R.	ERJ3GSYJ153V
R260	RK 3060	Chip R.	ERJ3GSYJ683V
R261	RK 3051	Chip R.	ERJ36SYJ123V
R262	RK3038	Chip R.	ERJ3GSYJ102V
R263	PK3034	Ch.p.R.	ERJ3GSYJ471V
R264	RK3034	Chip R.	ERJ3GSYJ471V

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MAIN Unit

MAIN Unit/BPF1/BPF2

Parts No. | Description

Chip R Chip R Chip R Chip R Chip R Chip R Switch

RX3049 RX3046 RX3046 RX3014 RX3017 US0012

Thermistor

XS0019 XS0017

R405
R406
R407
R407
R407
R411
S1
TH1
TH2
VR3
VR3
VR4

RH0115 RH0101 RH0103 RH0103

Trim Pot Trim Pot Trim Pot Trim Pot

Trim Pot

RH0103 RH0108

RH0111

rarts name	2	Parts No.	Des	n Parts Name	N S	Parts No.	Description	Parts Name	N.	Parts No.	Description	Parts Name
ERJ36SYJ822V	1		BPF1 Unit	Unit			BPF3 Unit	nit	20	080470		
ERJ3GSYJ822V	C54	cu3059	Chip C.	C1608JF1E104ZT-A	C63	CU3034	S aidS	C1608JB1H821KT-A	5	NA4000	ار ار	EKU14YJ151H
ERJ3GSYJ472V	C55	cu3023	Chip C.	C1608CH1H101JT-A	C64	CU3037	, <u>.</u>	C1608JB1H152KT-A			BPF5 Unit	jle.
ERJ36SYJ223V	0.56	CU3035	Chip C.	C1608JB1H102KT-A	C65	cu3037	Chro	C1608.IR1H152KT-A	- 62	Cliphia	0-140	
ERJ3GSYJ100V	C57	CU3035	Chip C	C1608JB1H102KT-A	990	CU3056	i china	C1608 IF1E4737T-A	6 0	CHOST	ביים כי	C1608CH1H150JT-A
ERJ3GSYJ121V	C58	CU3059	Chip C	C1608JF1E104ZT-A	CP.7	CH3056	5 C	C1609 IE1E4737T.A	5 2	970600	cuip a i	C1508CH1H181JT-A
SSSS212A NS L=2	. C73	cu3025	Chip C	C1608CH1H151.JT-A	283	CHBD22	i (C16000111E41321-A	S 8	420200	ع الم	C1608CH1H181JT-A
TBPS1R472K440H50	C74	CU3034	ر د زرا	C1608 1814823KT-4		22020	3 5 5	C 0000H H0200 -A	65	CU304 /	Chira C.	C1608JB1H103KT-A
TBPS1R222K410H50	C75	CH3D34	ن د د د د	x - 111000000000000000000000000000000000	60 6	cususu	ى ز دىنە تارىخى	CIGUSUBIH439IXI-A	C63	CU3047	Chip C.	C1608JB1H103KT-A
EVILIVEYS (IR)	27.0	CUZDER		C10000110021N1-A	683	c03030	ري ع ال	C1608JB1H391KT-A	120	xD0272	Diode	1SS356 TW11
212022 20003	5	503038	رة والح الح	C1608JF1E473ZT-A	985	cu3056	Chip C.	C1608JF1E473ZT-A	028	XD0272	Drode	1SS356 TW11
EVMITSASUBLES	2	cu3056	Chip C.	C1608JF1E473ZT-A	C87	cu3056	Chip C.	C1608JF1E473ZT-A	L45	000131	Chip L.	NL322522T-R56J-3
EVM1YSX50B14	D12	xD0266	Drade	DAP236U T106	D16	xD0266	Drode	DAP236U T106	L46	000063	Chip L	NL3225271-047.3
EVM1YSX50814	D13	xD0272	Diode	15S356 TW11	110	xD0266	Drode	DAP236U T106	L47	000063	Chip (N: 322527-047
EVM1YSX50BQ5	172	000019	Chip L.	NL322522T-270J	127	000046	Chip L	NL322522T-3R9J	855	PK3030	i a	EB (3000 1001 N
EVM1YSX50B14	173	000078	Chip L.	NL322522T-220J	178	000043	Chip L	NL3225221-2R2J	8.8	RKANGO		EB 134V (2011)
EVM1YSX50B15	L33	000043	Chip L.	NL322522T-2R2J	L29	000043	Chip L	NL3225271-2R23	}		:	21 77 51 51515
EVM1YSX50BQ5	L34	0C0129	Chip L.	NL322522T-R39J-3	L39	000039	Chip L	NL3225221-1R0J			Connector Unit	Unit
EVM1YSX50B15	135	000129	Chip L.	NL322527-R39J-3	L40	ac0126	Chip L	NL3225221-R22J-3	\ \frac{1}{8}	UE0266	Connector	\$10B_EU
EVM1YSX50BE3	R39	PK4070	Chip R.	ERJ14YJ271H	141	000126	Chip L.	NE.322522T-R22J-3	8	UE0254	Connector	S138-78
EVM1YSX50BE3	R40	PX3015	Chip R.	ERJ3GSYJ120V	R43	PK3028	Chip R.	ERJ3GSYJ151V	CN14	UE0263	Connector	IMSA-0120S-12
EVM1YSX50BE3	R4:	PK3031	Chip R.	ERJ3GSYJ271V	R44	PK 4058	Chip R.	ERJ14YJ151H	CN15	UE0263	Connector	IMSA-01205-13
EVM1YSX50814	R47	PK3028	Chip R.	ERJ3GSYJ151V	R51	PK3028	Chip R.	ERJ3GSYJ151V	! 			2 22 2
EVM1YSX50814	R48	PX 4068	Chip R.	ERJ14YJ151H	R52	PX 4068	Chip R.	ERJ14YJ151H			Mic Unit	Į.
EVM1YSX50816									CNIO	UE0261	Connector	09R-JE
CDB455C7			BPF2 Unit	Jult			BPF4 Unit	it		1950035	Connector	MIC ENSTALDENDY
	C59	CU3040	Chip C.	C1608JB1H272KT-A	890	cn3030	Chip C.	C1608JB1H391KT-A	178	000086	Chip L	N: 322527-101
	090	CU3042	Chip C.	C1608JB1H392KT-A	690	cu3034	Chip C.	C1608JB1H821KT-A	- 7	OCOURE	i di	N 322527-101
	C61	CU3040	Chip C.	C1608JB1H272KT-A	C70	CU3034	Chip C	C1608JB1H821KT-A			,	C 0 - 17777
Circuit Board B	C62	CU3056	Chip C.	C1608JF1E473ZT-A	C71	cu3056	Chrip C	C1608JF1E473ZT-A			PLL Unit	
	C78	CU3024	Chip C.	C1608CH1H121JT-A	C72	cu3056	Chip C.	C1608JF1E473ZT-A	C701	CU3017	chia c	C1608CH1H330 IT-4
	613	cn3033	Chip C.	C1608JB1H681KT-A	C88	cu3092	Chip C.	C1608CH1H510JT-A	C702	cu3022	, i	C1608CH1H820.IT-A
	080	CU3033	Chip C.	C1608JB1H681KT-A	683	cu3029	Chip C.	C1608JB1H331KT-A	C703	CU3047	o di lo	C1608.181H103KT-4
	C81	cu3056	Chip C	C1608JF1E473ZT-A	060	cu3029	Chip C.	C1608JB1H331KT-A	C704	CU30.47	o di di	C1608 IB1H103KT-A
	C82	cu3056	Chip C.	C1608JF1E473ZT-A	160	cu3056	Chip C.	C1608JF1E473ZT-A	C705	cu3013	Chip C.	C1608CH1H150.JT-A
	D14	x00266	Diode	DAP236U 7106	C92	cu3056	Chip C.	C1608JF1E473ZT-A	C706	cu3035	Chip C.	C1608JB1H102KT-A
	015	XD0266	Diode	DAP236U T106	D18	xD0266	Drode	DAP236U T106	C707	cu3035	Chip C.	C1608JB1H102KT-A
	L24	000045	Chip L.	NL322521-3R3J	019	xD0266	Diode	DAP236U Ti06	C708	CU3035	Chip C.	C1608JB1H102KT-A
	1725	000045	Ch.p L.	NL322521-3R3J	L30	000043	Chip L.	NL322522T-2R2J	C7109	CU3035	Chip C.	C1608JB1H102KT-A
	1756	000497	Chip L.	LOH4N102J04	เรา	000039	Chip L	NL322522T-1R0J	C710	cu3023	Chip C.	C1608CH1H101.JT-A
	136	000041	Chip L	NL322527-1R5J	132	000039	Chip L.	NL3225227-1R0J	C7111	CS0372	ChipTantalum	TMCMB1C106MTR
	L37	QC0127	Chip L.	NL3225227-R27J-3	142	000133	Chip L	NL322522T-R82J-3	C712	cu3035	Chip C.	C1608JB1H102KT-A
	L38	000127	Chip L.	NL322522T-R27J-3	143	000123	Chip L	NL322522T-R12J-3	C713	CS0372	ChipTantalum	TMCMB1C106MTR
	R42	RK4069	Chip R.	ERJ14YJ221H	L44	000123	Chip L	NL322527-R12J-3	C714	CU3035	Chip C	C1608JB1H102KT-A
	R49	RK3028	Chip R.	ERJ3GSYJ151V	R45	FK3028	Chip R.	ERJ3GSYJ151V	C715	cu3035	Chip C.	C1608JB1H102KT-A
	R50	PX4068	Chip R.	ERJ14YJ151H	R46	RK 4058	Chip R.	ERJ14YJ151H	C716	CS0220	ChipTantakum	TMCMA1C225MTR

P. C. B

Trim Pot

Trim Pot

Trim Pot Trim Pot Trim Pot Filter

XK0001

UN-11

Trim Pot Trim Pot Trim Pot Trim Pot

RH0108 RH0099 RH0099 RH0099 RH0103 RH0103 RH0113

RH0111

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Š	Parts No.	Description	Parts Name	N S	Parts
C718	CU3035	Chip C.	C1608JB1H102KT-A	C764	CU303
C719	CU8042	Chip C.	C2012JB1C104KT-A	C765	CU301
C720	CE0374	Electrolytic C.	16CV100BS	C766	cu303
C721	CU3101	Chip C.	C1608JB1C473KT-A	C767	cu303
C722	CU3014	Chip C.	C1608CH1H180JT-A	C768	CE031
C723	cu3035	Chip C.	C1608JB1H102KT-A	C769	CU304
C724	CS0372	Chip Tantalum	TMCMB1C106MTR	C770	CE031
C725	cu3035	Chip C.	C1608JB1H102KT-A	C771	CU304
C726	cu3035	Chip C.	C1608JB1H102KT-A	C772	CU301
C727	cu3035	Chip C.	C1608JB1H102KT-A	C773	CU300
C728	CU3101	Chip C.	C1608JB1C473KT-A	C774	CU303
C729	cu3033	Chip C.	C1608JB1H581KT-A	C775	cu310
C730	cu3019		C1608CH1H470JT-A	02776	cu304
C731	CU3034		C1608JB1H8Z1KT-A	C117	CU310
5732	CU3024		C1608CH1H121JT-A	C780	cu304
C/33	CU3032	Chip C	C1608JB1H561KT-A	C781	CU304
C/35	CU3101	Chip C.	C1608JB1C473KT-A	C782	CU304
C726	C12101	Chip lantaium	CICOR IDIO ATOM A	2 2	2006
6717	C113047	درا اله	C1606JBTC4/3KT-A	48/7	cu304
C738	CUROS		C1608 R1E222KT_A	2785	
c739	CU3035		C1608JB1H102KT-A	C787	
C740	cu3047		C1608JB1H103KT-A	C788	CU304
C741	CU3047	Chip C.	C1608JB1H103KT-A	C789	CU304
C742	CU3047	Chip C.	C1608JB1H103KT-A	C790	CU301
C743	CS0061	ChipTantalum	TMCSA1V224MTR	C791	CU302
C744	CU3047		C1608JB1H103KT-A	C792	cn302
C745	cu3047	Chip C.	C1608JB1H103KT-A	C793	CU303
2777	210800	ج ت ت د	C1608CH1H120JT~A	C794	CS0372
27.5	700000		C10030H1H010C1-A	C(8/2	C0305
C749	CH3012	ن د م د	C1608CH1HU1UC1-A	C796	CS0372
c750	cu3007	5 0	C1608CH1H060CT-A	75708	COSO
C731	cu3035	Chip C.	C1608JB1H102KT-A	C799	CU3047
C752	cu3035	Chip C.	C1608JB1H102KT-A	C800	CS0049
C753	CU3014	Chip C.	C1608CH1H180JT-A	C801	CS0049
C754	CU3001	Chip C.	C1608CH1H0R5CT-A	C802	CU3035
C755	CU3088	Chip C.	C1608CH1H200JT-A	C803	CU3047
C756	cu3035	Chip C.	C1608JB1H102KT-A	C804	CU3015
C757	CU3035	Chip C.	C1608JB1H102KT-A	C805	CU3025
C758	cu3035	Chip C.	C1608JB1H102KT~A	9082	CU3025
C759	CU3035	Chip C.	C1608J81H102KT-A	C807	CU3016
C760	CE0310		ECEV1 AA330P	C808	CU3047
1923	CU3047		C1608JB1H103KT~A	6082	CU3021
292	cu3035	Chip C.	C1608JB1H102KT-A	C810	CU3011

Ref.			
ž	Parts No.	Description	Parts Name
C764	cu3035	Chip C.	C1608JB1H102KT-A
C765	CU3014		C1608CH1H180JT-A
C766	cu3035	Chip C.	C1608JB1H102KT-A
C767	cu3035	Chip C.	C1608JB1H102KT-A
C768	CE0313	Electrolytic C.	ECEV1CA220P
6923	cu3047	Chip C.	C1608JB1H103KT-A
C770	CE0313	Electrolytic C.	ECEV1CA220P
C771	CU3047	Chip C.	C1608JB1H103KT-A
C772	CU3014	Chip C.	C1608CH1H180JT-A
C773	CU3004	Chip C.	C1608CH1H030CT-A
C774	CU3035	Chip C.	C1608JB1H102KT-A
C775	cu3101	Chip C.	C1608JB1C473KT-A
C776	CU3047	Chip C.	C1608JB1H103KT-A
C777	CU3101	Chip C.	C1608JB1C473XT-A
C780	cu3046	Chip C.	C1608JB1H822KT-A
C781	cu3046	Chip C.	C1608JB1H822XT-A
C782	cu3041	Chip C.	C1608JB1H332KT-A
C783	CS0069	Chip Tantalum	TMCSA1V154MTR
C784	CU3047	Chip C.	C1608JB1H103KT-A
C785	CU3051	Chip C.	C1608JB1E223KT-A
C786	CU3101	Chip C.	C1508JB1C473KT-A
C787	CU8042	Chip C.	C2012JB1C104KT-A
C788	CU3047	Chip C.	C1608JB1H103KT-A
C789	CU3047	Chip C.	C1608JB1H103KT-A
C790	CU3015	Chip C.	C1608CH1H220JT-A
C791	CU3027	Chip C.	C1608CH1H221JT~A
C792	CU3027	Chip C.	C1608CH1H221JT-A
C793	cu3035	Chip C.	C1608JB1H102KT-A
C794	CS0372	ChipTantalum	TMCMB1C106MTR
C795	CU3051	Chip C.	C1608JB1E223KT-A
9620	CS0372	ChipTantalum	TMCMB1C106MTR
C797	CU3047	Chip C.	C1608JB1H103KT-A
C798	CU8042	Chip C.	C2012JB1C104KT-A
C799	CU3047	Chip C.	C1608JB1H103KT-A
C800	CS0049	ChipTantalum	TMCSA1C105MTR
C801	CS0049	ChipTantalum	TMCSA1C105MTR
C802	CU3035	Chip C.	C1608JB1H102KT-A
C803	CU3047	Chip C.	C1608JB1H103KT-A
C804	cu3015	Chip C.	C1608CH1H220JT-A
C805	CU3025	Chip C.	C1608CH1H151KT-A
9082	CU3025	Chip C.	C1608CH1H151KT-A
C807	cu3016	Chip C.	C1608CH1H270JT-A
C808	CU3047	Chip C.	C1608JB1H103KT-A
6082	CU3021	Chip C.	C1608CH1H680JT-A
C810	CU3011	Chip C.	C1608CH1H100CT-A
C811	cu3016	Chip C.	C1608CH1H270JT-A
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	2	Parts No.	Description	Parts Name
	C812	cu3020	Chip C.	C1608CH1H560JT-A
	C813	cu3035	Chip C.	C1608JB1H102KT-A
	C814	CU3047	Chip C.	C1608JB1H103KT-A
	C816	cu3035	Chip C.	C1608JB1H102KT-A
	C817	CE0310	Electrolytic C.	ECEVA1A330P
	C818	cu3035	Chip C.	C1608JB1H102KT~A
	C819	cu3035	Chip C.	C1608JB1H102KT-A
	C820	cu3035	Chip C.	C1608JB1H102KT-A
	C821	cu3101	Chip C	C1608JB1C473KT-A
	C823	cu3035	Chip C.	C1608JB1H102KT-A
	C824	CU3051	Chip C.	C1608JB1E223KT-A
	C825	cn3035	Chip C.	C1608JB1H102KT-A
	C826	cn3020	Chip C.	C1608CH1H560JT-A
	C827	CU3019	Chip C.	C1608CH1H470JT-A
	C828	CU3024	Chip C.	C1608CH1H121JT-A
	C829	CU3013	Chip C.	C1608CH1H150JT-A
	C830	. cu3021	Chip C.	C1608CH1H680JT-A
	C831	CU3043	Chip C.	C1608JB1H472KT-A
	C832	CU3043	Chip C.	C1608JB1H472KT-A
	C833	CU3049	Chip C.	C1608JB1E153KT-A
	C834	cu3101	Chip C.	C1608JB1C473KT-A
	C835	cu3101	Chip C.	C1608JB1C473KT-A
	C836	CU3101	Chip C.	C1608JB1C473KT-A
	C837	cu3015	Chip C.	C1608CH1H220JT-A
	C838	CU3035	Chip C.	C1608JB1H102KT-A
	C840	cu3035	Chip C.	C1608JB1H102KT-A
	C841	cu3035	Chip C.	C1608JB1H102KT-A
	C842	cu3013	Chip C.	C1608CH1H150JT-A
	C844	cu3035	Chip C.	C1608JB1H102KT-A
	C845	90060	Chip C.	C1608CH1H050CT-A
	C846	cu3020	Chip C.	C1608CH1H560JT~A
	C847	cn3020	Chip C	C1608CH1H560JT-A
	C848	CU3027	Chip C.	C1608CH1H221JT-A
	C849	CU3016	Chip C.	C1608CH1H270JT-A
	C850	CU3014	Chip C.	C1608CH1H180JT-A
	C851	cu3016	Chip C.	C1608CH1H270JT-A
	C852	cu3035	Chip C.	C1608JB1H102KT-A
	C853	cu3035	Chip C.	C1608JB1H102KT-A
	C854	cu3022	Chip C.	C1608CH1H820JT-A
	C855	CU3019	Chip C.	C1608CH1H470JT-A
•	C856	CU3010	Chip C.	C1608CH1H090CT-A
	C857	cu3002	Chip C.	C1608CH1H010CT-A
	C858	CU3011	Chip C.	C1608CH1H100CT-A
	C859	CU3035	Chip C.	C1608JB1H102KT-A
	0980	cu3035	Chip C.	C1608JB1H102XT-A
	C861	CU3002	Chip C.	C1608CH1H010CT-A

Se.	Parts No.	Description	Parts Name
C862	cu3011	Chip C.	C1608CH1H100CT-A
C863	cu3011	Chip C.	C1608CH1H100CT-A
C864	cu3035	Chip C.	C1608JB1H102KT-A
C865	cu3035	Ch ip C.	C1608JB1H102KT-A
2866	cu3047	Chip C.	C1608JB1H103KT~A
C867	cu3047	Chip C.	C1608JB1H103KT-A
8983	cu3047	Chip C.	C1608JB1H103KT-A
6983	CU3013	Chip C.	C1608CH1H150JT-A
C870	cu3006	Chip C.	C1608CH1H050CT-A
C871	CU3047	Chip C.	C1608JB1H103KT-A
C872	cu3016	Chip C.	C1608CH1H270JT-A
C873	cu3002	Chip C.	C1608CH1H010CT-A
C874	cu3002	Chip C.	C1608CH1H010CT-A
C875	CU3016	Chip C.	C1608CH1H270JT-A
9/83	CU3016	Chip C	C1608CH1H270JT-A
C877	cu3047	Chip C.	C1608JB1H103KT-A
C878	cu3006	Chip C.	C1608CH1H050CT~A
C879	CU3047	Chip C.	C1608JB1H103KT-A
C880	CU3101	Chip C.	C1608JB1C473KT-A
CN701	UE0259	Connector	CFP0526-0201
CN702	UE0165	Connector	B4B-ZR
1070	xD0254	Diode	1SS355 TE17
D702	XD0254	Drode	1SS355 TE17
D703	xD0254	Diode	1SS355 TE17
D704	XD0289	Diode	\$3275(TE12L)
5070	XD0039	Diode	RLS4152 TE-11
9010	XD0233	Drode	1SV217TPH4
7070	xD0254	Diode	1SS355 TE17
D708	XD0231	Diode	DAP202U T106
D709	xD0230	Diode	DAN202U T106
0710	XD0254	Diode	1SS355 TE17
11170	xD0230	Diode	DAN202U T106
0712	xD0230	Diode	DAN202U T106
0713	XD0254	Diode	1SS355 TE17
D714	xD0230	Diode	DAN202U T106
0715	xD0230	Diode	DAN202U T106
9110	xD0230	Diode	DAN202U T106
1170	xD0230	Diode	DAN202U T106
8170	xD0230	Diode	DAN202U T106
0719	xD0230	Drode	DAN202U T106
02.20	XD0230	Diode	DAN202U T106
1270	XD0230	Diode	DAN202U T106
0722	xD0254	Diode	1SS355 TE17
0723	XD0254	Diode	1SS355 TE17
0724	XD0272	Diode	199356 TW11

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Parts Name

Description

Parts No.

DTC144EUT106

Transistor

XU0148 XT0059 XU0174 XU0125 XU0148 XU0148 PK3030

Transistor

DTA144EUT106 DTC144EUT106 DTC144EUT106 ERJ3GSYJ221V ERJ3GSYJ153V ERJ3GSYJ472V ERJ3GSYJ471V ERJ3GSYJ470V

Transistor

Transistor

Transistor Chip R.

Chip R. Chip R. Chip R.

PK3052

UN5112

Transistor

ERJ3GSYJ223V ERJ3GSYJ222V ERJ3GSYJ470V

> FX3042 FX 3022 PK 3054 PK3038 PK 3054 RK3042 PX 3050

ERJ3GSYJ223V ERJ3GSYJ102V ERJ3GSYJ223V ERJ3GSYJ222V ERJ3GSYJ103V ERJ3GSYJ103V ERJ3GSYJ471V ERJ3GSYJ471V

ERJ3GSYJ223V ERJ3GSYJ102V

Chip R. Chip R. Chip R. Chip R. Chip R Chip R. Chip R. Chip R.

FK 3046 FK 3034 FK 3022 FK 3054 FK 3054

	Farts Name	3356 TW11	3355 TE17	3355 TE17	3355 TE17	3355 TE17	3355 TE17	335 TE17	1355 TE17	355 TE17	SK107M3-AE-20(A)	IPC1037GB-F1 (NS)	MBS7086APF-G-BND-TE	WB87014APF-G-BND-TE	MC74HC390FL2	UPC1037GR-E1 (MS)	MB87086APF-G-BND-TF	MC17805CT	UPC1037GR~E1 (MS)	TC74AC74F(EL)	BA4425F-E1	UPC1037GR-E1 (MS)	MC74HC390FL2	TC4S66FTE85L	BU4094BF-T1	NL322522T-R56J-3	į	108	ı	NL322522T-820J	•	NL3225227-680J	NL322522T-101J	107	107	107	101	701	107	107		NL322522T-R68J~3	NL322522T-R68J-3 NL322522T-120J	NL322527-R68J-3 NL322527-120J NL3225227-330J	NL322527T-R65J-3 NL322527T-120J NL322527T-330J NL322527T-150J	M.325222T-R68J-3 NL32522T-120J NL32522T-150J NL3252ZT-150J	ML32522T-R68J-3 ML3252T-120J ML3252T-330J ML3252T-150J ML3252T-16R2J ML3252T-5R6J
Diode 158355 Diode 158355	,			_	Diode 1SS355	Diode 1SS355	Diode 1SS355	Di ode 1SS355	Di ode 15S355	Di ode 15S355	Filter			1C MB8701		IC UPC103	IC MB8708	IC MCT780	IC UPC103	1C TC74AC	1C BA4425	IC UPC103	IC NC74HC	10456	1C BU4094	Chip L. NL3225	Wire PLL -	Coil 0A0108	Wire PLL -	Chip L. NL322	Wire PLL -	Chip L. NL3225	Chip L. NL3225	Coil 0A0107	Coil 0A0107	Coil aA0107	Coil 0A0107	Coil 0A0107	Coil 0A0107	Coil 0A0107	Chin NI 2225'		۔۔۔ نـ نـ	<u>. </u>	نانا		
-	Parts No. De	XD0272 D	XD0254 Di	XD0254 Di	XD0254 Di	XD0254 D	XD0254 Di	XD0254 Di	XD0254 Di	XD0254 Di	xC0013 Ce	XA0379				XA0379 IC	XA0297 10	XA0346 IC	XA0379 IC	XA0305 10	XA0304 10	XA0379 IC	XA0294 1C	XA0115 10	XA0246 10	0C0131 Ch	UX1087 ₩i	0A0108 Co	UX1087 ₩i	ac0085 ch	UX1087 W.	ac0084 ch		0A0107 Co	QA0107 Co	0A0107 Co	QA0107 Co	0A0107 Co	QA0107 Co	0A0107 Co	0C0132 Ch		0C0075 ch				
PLL Unit	ġ	0726	1210	0728	D729	0730	0732	0733	0734	0735	FL701	10701	C702	C703	1C705	1C706	10707	10708	10709	10710	11731	C712	IC714	10715	10716	1.701	1077	1,702	J702	1703	1703	1704	L705	90.71	1,707	1708	1709	L710	L711	L712	L713	_	L714	L714 L715	L714 L715 L716	L714 L715 L716 L717	

N. e.	Parts No.	Description	Parts Name
1 720	001040		
7 7 7	0,100		uv0108
17	UAU108	-3	0A0108
L722	0A0108	- 8	0.0108
L724	000124	Chip L.	NL322522T-R15J-3
L725	ac0126	Chip L.	NL322522T-R22J-3
1726	00000	Chip L	NL322522T-150J
1727	000064	Chip L.	NL322522T~056J
٢.728	000123	Chip L.	NL322527-R12J-3
L729	OR0017	Coil	QR0017
L730	QR0017	 	QR0017
1731	000130	Chip L	NL322522T-R47J-3
L732	QA0118	-i.g	0A0118
L733	0A0118	Coil	DA0118
L734	0A0118	Coil	0A0118
1735	0A0118	E So	0A0118
L736	ac0048	Chip L.	NL3225227-100J
L737	000473	Chip L.	LQH4N100J04
L738	000064	Chip L.	NL322522T-056J
1070	XT0095	Transistor	2SC4081T106R
0702	XT0059	Transistor	2SC3082KT1460
0703	XT0059	Transistor	2SC3082KT1460
0704	XT0080	Transistor	2SC3324B
0705	XT0080	Transistor	2SC3324B
9020	XT0080	Transistor	2SC3324B
0707	XT0059	Transistor	2SC3082KT1460
0708	XT0059	Transistor	2SC3082KT1460
070	x00140	Transistor	DTC124EUT106
0710	XT0059	Transistor	2SC3082KT1460
0711	XT0059	Transistor	2SC3082KT1460
0712	XT0059	Transistor	2SC3082KT1460
0713	XT0096	Transistor	2SC4099T106N
0714	XT0059	Transistor	2SC3082KT1460
0715	x00140	Transistor	DTC124EUT106
0716	XT0059	Transistor	2SC3082KT1460
7170	XU0140	Transistor	DTC124EUT106
0718	XU0148	Transistor	DTC144EUT106
0719	XT0059	Transistor	2SC3082KT1460
1270	XT0095	Transistor	2SC4081T106R
0722	XT0095	Transistor	2SC4081T106R
0723	XT0095	Transistor	2SC4081T106R
0724	XT0095	Transistor	2SC4081T106R
0725	XT0095	Transistor	2SC4081T106R
0726	XU0125	Transistor	DTA144EUT106
0727	XU0148	Transistor	DTC144EUT106
0728	XT0094	Transistor	2SA1576T106R
0729	XU0148	Transistor	DTC144EUT106
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ratis No.	Description	Farts Name	ž
0A0108	Coil	040138	0730
0A0108	- E	QA0108	1870
DA0108	- - - - -	040108	0732
DC0124	Chip L.	NL322522T-R15J-3	0733
ac0126	Chip L.	NL322522T-R22J-3	0734
DC0076	Chip L	NL322522T-150J	0735
000064	Chip L	NL322522T~056J	R701
ac0123	Chip L.	NL3225227-R12J-3	R702
DR0017	Coi	QR0017	R703
DR0017	Coil	QR0017	R704
ac0130	Chip L	NL3225227-R47J-3	R705
. 8110AC	-i.8	QA0118	R706
DA0118	Coir	0A0118	R707
DA0118	i es	0A0118	R708
N-0118	E G	0A0118	R709
DC0048	Chip L.	NL3225227-100J	R710
100473	Chip L.	LQH4N100J04	R711
100064	Chip L.	NL3225227-056J	R712
(т0095	Transistor	2SC4081T106R	R713
ст0059	Transistor	2SC3082KT1460	R714
(10059	Transistor	2SC3082KT1460	R715
CT0080	Transistor	2SC3324B	R716
CT0080	Transistor	2SC3324B	R717
CT0080	Transistor	2SC3324B	R718
(T0059	Transistor	2SC3082KT1460	R719
CT0059	Transistor	2SC3082KT1460	R720
CU0140	Transistor	DTC124EUT106	R721
ст0059	Transistor	2SC3082KT1460	R722
CT0059	Transistor	2SC3082KT1460	R723
CT0059	Transistor	2SC3082KT1460	R724
(T0096	Transistor	2SC4099T106N	R725
r10059	Transistor	2SC3082KT1460	R726
(1) 140	Transistor	DTC124EUT106	R727
T10059	Transistor	2SC3082KT1460	R728
00140	Transistor	DTC124EUT106	R729
00148	Transistor	DTC144EUT106	R730
T0059	Transistor	2SC3082KT1460	R731
T0095	Transistor	2SC4081T106R	R732
T0095	Transistor	2SC4081T106R	R733
T0095	Transistor	2SC4081T106R	R734
T0095	Transistor	2SC4081T106R	R735
T0095	Transistor	2SC4081T106R	R736
100125	Transistor	DTA144EUT106	R737
10148	Transistor	DTC144EUT106	R739
T0094	Transistor	2SA1576T106R	R740
.00148	Transistor	DTC144EUT106	R741

•			PLL Unit
ž Š	Parts No.	Description	Parts Name
R742	PK3038	Chip R.	ERJ3GSYJ102v
R743	PK3026	Chio R.	ERJ3GSYJ101V
R744	PK3030		ERJ3GSYJ221V
R745	PK3050		ERJ3GSYJ103V
R746	FX3041		ERJ3GSYJ182V
R747	PK3038	Chip R	ERJ3GSYJ102V
R748	FK3026	Chip R	ERJ3GSYJ101V
R749	PK3001	Chip R.	ERJ3GSY0R00V
R750	FK3022	Chip R.	ERJ3GSYJ470V
R751	PK3026	Chip R.	ERJ3GSYJ101V
R752	PK3026	Chip R.	ERJ3GSYJ101V
R753	FK3038	Chip R	ERJ3GSYJ102V
R754	PK3054	Chip R.	ERJ3GSYJ223V
R755	RX3042	Chip R.	ERJ3GSYJ222V
R756	RX 3054	Chip R.	ERJ3GSYJ223V
R757	PK3050	Chip R.	ERJ3GSYJ103V
R758	PK 3034	Chip R.	ERJ3GSYJ471V
R759	PK3034	Chip R.	ERJ3GSYJ471V
R760	PK3034	Chip R	ERJ3GSYJ471V
R761	PK 3034	Chip R.	ERJ3GSYJ471V
R762	FK 3026	Chip R.	ERJ3GSYJ101Y
R763	PK 3050	Chip R.	ERJ3GSYJ103V
R764	PK3046	Chip R.	ERJ3GSYJ472V
R765	PK3038	Chip R	ERJ3GSYJ102V
R766	PK 3066	Chip R.	ERJ3GSYJ224V
R767	PK3074	Chip R.	ERJ3GSYJ105V
R769	PK3062	Chip R.	ERJ3GSYJ104V
R770	PK3034	Chip R.	ERJ3GSYJ471V
R771	PK3034	Chip R	ERJ3GSYJ471V
R773	RK3042	Chip R.	ERJ3GSYJ222V
R774	PK3043	Chip R.	ERJ3GSYJ272V
R775	PK3046	Chip R.	ERJ3GSYJ472v
R776	FX3026	Chip R.	ERJ3GSYJ101V
R777	PK3038	Chip R.	ERJ3GSYJ102V
R778	PK3042	Chip R.	ERJ3GSYJ222V
R779	PK3034	Chip R.	ERJ3GSYJ471V
R780	PK3042	Chip R	ERJ3GSYJ222V
R781	PK3054	Chip R	ERJ3GSYJ223V
R782	PK3054	Chip R.	ERJ3GSYJ223V
R783	PK3042	Chip R.	ERJ3GSYJ222V
R784	PK3054	Chip R.	ERJ3GSYJ223V
R785	RK3052	Chip R.	ERJ3GSYJ153V
R786	FK3062	Chip R.	ERJ3GSYJ104Y
R787	PK 3062	Chip R.	ERJ3GSYJ104V
R788	PK3046	Chip R.	ERJ3GSYJ472V
R794	PK 3026	Chip R.	ERJ3GSYJ101V

ERJ3GSYJ471V

Chip R

Chip R. Chip R Chip R. Chip R. Chip R. Chip R Chip R. Chip R.

Chip R.

PK3034 RK3034 PK3034 PK 3050

PK3050

Chip R Chip R. Chip R.

Chip R

ERJ3GSYJ102V

RK3038 FX3034 PK3034 FX3034 FX3042 PX 3038

ERJ3GSYJ471V ERJ3GSYJ471V ERJ3GSYJ471V ERJ3GSYJ222V ERJ3GSYJ102V ERJ3GSYJ102V ERJ3GSYJ474V ERJ3GSYJ101V ERJ3GSYJ102V ERJ3GSYJ472V ERJ3GSYJ101V ERJ3GSYJ101V ERJ3GSYJ103V ERJ3GSYJ473V ERJ3GSYJ682V ERJ3GSYJ561V ERJ3GSYJ101V

> Chip R Chip R.

> > PK3026 PK3038

PK3038 PK3070 Chip R Chip R. Chip R.

Chip R.

PK3046 PK3026

PK3026 RK3050 PK3058 RX3048

Chip R. Chip R. Chip R Chip R. Chip R. Chip R Chip R.

ERJ3GSYJ103V

ERJ3GSYJ221V ERJ3GSY0R00V

FK3026 FK3030 FK3001

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S.	Parts No.	Description	Parts Name	2	Parts No.	Description	Parts Name	Ne.	Parts No.	Descriptio
R795	RK3050	Chip R.	ERJ3GSYJ103V	R843	PK3046	Chip R.	ERJ3GSYJ472V	RAGO	F8X 3/12/4	Chin
R796	FK3074	Chip R.	ERJ36SYJ105V	R844		Sip R	ERJ3GSYJ221V	R891	FK3030	2 G
R797	RK3046	Chip R.	ERJ3GSYJ472V	R845	PK3034	Chip R.	ERJ3GSYJ471V	8897	RX3030	
R798	RX3054	Chip R.	ERJ3GSYJ223V	R846	FK3050	S. B. R.	ERJ3GSYJ103v	R893	PK3030	Chip
R800	FK3038	Chip R.	ERJ3GSYJ102V	R847	RK3034	Chip R.	ERJ3GSYJ471v	R894	FK3052	, d
1082	RK3030	Chip R.	ERJ3GSYJ221V	R848	PK3014	Chip R.	ERJ3GSYJ100V	RL701	UL0010	Relay
3802	PK3036	Chip R.	ERJ3GSYJ681V	R849	RK3034	Chip R.	ERJ3GSYJ471v	TC701	CT0012	Trimmer
R803	PX 3050	Chip R.	ERJ3GSYJ103Y	R850	RK3054	Chip R.	ERJ3GSYJ223V	TC702	CT0034	Trimmer
R804	RK3050	Chip R.	ERJ3GSYJ103V	R851	PX3046	Chip R.	ERJ36SYJ472V	TC703		Trimmer
R805	RK3039	Chip R	ERJ3GSYJ122V	R852	PK3028	Chip R.	ERJ3GSYJ151V	TC704		Trimmer
R806	PK 3054	Chip R.	ERJ3GSYJ223V	R853	PK3026	Chip R.	ERJ3GSYJ101V	TC705		Trimer
R807	RK3052	Chip R.	ERJ3GSYJ153V	R854	PK3022	Chip R.	ERJ3GSYJ470V	TH701	_	Thermistor
R808	RK3046	Chip R.	ERJ3GSYJ472V	R855	RK3018	Chip R.	ERJ3GSYJ220V	VR701	RH0104	Trim Pot
R809	FX 3046	Chip R.	ERJ3GSYJ472V	R856	PK3050	Chip R.	ERJ3GSYJ103V	VR702		Trim. Pot
R810	FK 3030	Chip R.	ERJ3GSYJ221V	R857	PK3038	Chip R.	ERJ3GSYJ102V	X701		Crystal
R811	RK3046	Chip R.	ERJ3GSYJ472V	R858	PK3030	Chip R.	ERJ3GSYJ221V	x702	x00066	Crystal
R812	FK 3030	Chip R.	ERJ3GSYJ221V	R859	PK3051	Chip R.	ERJ3GSYJ123V	x703	X00067	Crystal
R813	FX 3046	Chip R	ERJ3GSYJ472V	R860	RK3034	Chip R.	ERJ3GSYJ471V	120056		
R814	RK3046	Chip R.	ERJ3GSYJ472V	R861	PK3032	Chip R.	ERJ3GSYJ331V	120056		
R815	RK3042	Chip R.	ERJ3GSYJ222V	R862	PK3038	Chip R.	ERJ3GSYJ102V	120056	490	
R816	PK 3030	Chip R.	ERJ3GSYJ221V	R863	PK3062	Chip R.	ERJ3GSYJ104V	UA0048		
R817	FX 3046	Chip R.	ERJ3GSYJ472V	R864	RK3032	Chip R	ERJ3GSYJ331V	UP0289A		P. C. B
R818	RK 3062	Chip R	ERJ3GSYJ104V	R865	PK3026	Chip R.	ERU3GSYJ101V			
R819	RK3039	Chip R	ERJ3GSYJ122V	R866		Chip R	ERU3GSYJ471V			VCO1
R820	PK 3026	Chip R	ERJ3GSYJ101V	R867		Chip R.	ERJ3GSYJ471V	C924	CS0372	ChipTantalu
R821	RK 3026	Chip R.	ERJ3GSYJ101V	R868		Chip R.	ERJ3GSYJ104V	C925	CU3035	Chip C
R822	FK 3054	Chip R.	ERJ3GSYJ223V	R869		Chip R.	ERJ3GSYJ471V	c926	CU3035	Chip C.
K823	RK3054	Chrp R	ERJ3GSYJ223V	R870		Chip R.	ERJ3GSYJ101V	C927	CU3035	Chip C.
R824	RK3042	Chip R.	ERJ3GSYJ222V	R871		Chip R	ERJ3GSYJ222V	C928	CU3035	Chip C.
R825	RK 3038	Chip R.	ERJ36SYJ102V	R872		Chip R.	ERJ3GSYJ102V	C929	CS0372	Chrp Tantalu
N826	RK 3026	Chip R.	ERJ3GSYJ101V	R873		Chip R	ERJ3GSYJ471V	C930	cu3035	Chip C.
1799	KK 3U56	باري ج از	ERJ36SYJ333V	R874		Chip R.	ERJ3GSYJ223V	C931	CU3035	Chip C.
0700	00000	۳ .	ERJ365YJ103V	8875		Chip R	ERJ3GSYJ101V	C932	CU3051	Chip C.
6700	FA 30 14	Chlo R	EKJ365YJ10UV	R8/6		Chip R	ERJ3GSYJ473V	C933	CU3022	Chip C.
833	RK3026	, E	ER 1365V 1101V	1100	MA3020	chip A	EKJ365YJ101V	C934	cU3024	Chip C
	AK 302F		ENGOSTO 1017	0,00		o in in	EKJ3GSYOKOOV	C935	cu3012	Chip C.
	RK 3033	Chin B.	ER 1365Y 1201V	5,000		מופס ל	ERJ36SYJ222V	C936	CU3011	Chip C.
	RK3042	Chin R	FB.13GSY.1222V	000	MAJUSU BK3050	z 6	ERJ36SYJ 103V	C937	cu3006	Chip C
	FK 3038	Ch.p.R.	ERJ36SYJ102V	R883		5 6	ER.1365Y.1103V	25.67	CUSUSD	Chip C
R836	PK 3026	Chip R.	ERJ3GSYJ101V	R884		. S	ERJ3GSYJ1D3V	eses CNO	11E0185	Copperator
R838	PK 3042	Chip R.	ERJ36SYJ222V	R885	-	Chip R.	ERJ3GSYJ103V	D431	XD0233	Diode de
R839	PK 3026	Chip R.	ERJ3GSYJ101V	R886	PK3050	Chip R.	ERJ3GSYJ103V	10704	XA0292	2 2
	PK3062	Chip R.	ERJ3GSYJ104V	R887	PK3050	Chip R.	ERJ3GSYJ103V	1931	0A0109	: i
	PK 3042	Chip R.	ERJ3GSYJ222V	R888	FK3050	Chip R.	ERJ3GSYJ103V	L932	000043	Chip L
R842	PK 3033	9 9 9	EB 1305V 1301V	000						

	ON WIND	Description	Darts Name
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R890	PK 3024	Chip R.	ERJ3GSYJ680V
R891	PK 3030	Chip R.	ERJ3GSYJ221V
R892	PK 3030	Chip R.	ERJ3GSYJ221V
R893	PK 3030	Chip R.	ERJ3GSYJ221V
R894	FK3052	Chip R.	ERJ3GSYJ153V
RL701	UL0010	Relay	FBR22012
TC701	CT0012	Trimmer	CTZ-10AW
TC702	CT0034	Trimmer	CTZ3S-30CW1-P
TC703	CT0034	Trimmer	CTZ3S-30CW1-P
TC704	CT0034	Trimmer	CTZ3S-30CW1-P
TC705	СТ0012	Trimmer	CTZ-10AM
TH701	xS0014	Thermistor	TBPS1R223K460H5a
VR701	RH0104	Trim, Pot	EVM1YSX50BE4
VR702	RH0104	Trim. Pot	EVM1YSX50BE4
X701	x00065	Crystal	49U-30. 00MHz
X702	x00066	Crystal	49U-9. 420MHz
X703	X00067	Crystal	49U-9. 875MHz
720056	490		
TZ0056	490		
7Z0056	490		
UA0048			SMCD26x50-BDx6-P1.0
UP02894		P. C. B	Circuit Board A
		VCO1 11nit	i-
C974	CS0377	ChroTantalum	THOMBSOIDSHIR
C925	CU3035	Ship o	C1508JB1H107KT-A
6260	CU3035	Chip C.	C1608JB1H102KT-A
C927	CU3035	Chip C.	C1608JB1H102KT~A
c928	CU3035	Chip C.	C1608JB1H102KT-A
c929	CS0372	ChipTantalum	TMCMB1C106MTR
C930	cu3035	Chip C.	C1608JB1H10ZKT-A
C931	CU3035	Chip C.	C1608JB1H102KT-A
C932	CU3051	Chip C	C1608JB1E223KT-A
C933	CU3022		C1608CH1H820JT-A
C934	CU3024		C1608CH1H121JT-A
5633	CU3012		C1608CH1H120JT-A
C936	cu3011		C1608CH1H100CT-A
C937	cu3006		C1608CH1H050CT-A
85.62	CU3035	Chip C	C1608JB1H102KT-A
5828	11E0185	Companie	INCMBIAZZBMIR
0031	XD0233	Diode	15V217TBUA
10704	xA0292	2	MC12019DB2
1931	0A0109	i.io	QA0109
L932	000043	Chip L.	NL322522T-2R2J
0931	XE0006		2SK210GR-TE85L

S S	Parts No.	Description	Parts Name
0932	XT0059	Transistor	2SC3082KT1460
0933	XT0095	Transistor	2SC4081T106R
R926	RK3050	Chip R.	ERJ3GSYJ103V
R927	PK 3030		ERJ3GSYJ221V
R928	RK3026		ERJ3GSYJ101V
R929	RK3065	Chip R.	ERJ3GSYJ184V
R930	RK3038	Chip R.	EFJ3GSYJ102V
R931	PK3050	Chip R.	ERJ3GSYJ103V
R932	RK3062	Chip R.	ERJ3GSYJ104V
R933	FK 3062	Chip R.	ERJ3GSYJ104V
R934	PK3028	Chip R.	ERJ3GSYJ151V
R935	PK3050	Chip R.	ERJ3GSYJ103V
R936	PK 3050	Chip R.	ERJ3GSYJ103V
R937	PK 3030		ERJ3GSYJ221V
R939	FK3038	Chip R.	ERJ3GSYJ102V
150106			VCO Case(A)
		VCO2 Unit	ijt.
C941	CU3035	Chip C.	C1608JB1H102KT-A
c942	CU3021	Chip C.	C1608CH1H680JT-A
C943	cu3020	Chip C.	C1608CH1H560JT-A
C944	CU3017	Chip C.	C1508CH1H330JT-A
C945	cu3012	Chip C.	C1508CH1H120JT-A
C946	cu3012	Chip C.	C1508CH1H120JT-A
C947	CU3004	Chip C.	C1508CH1H030CT-A
C948	cu3035		C1608JB1H102KT-A
C949	cu3004	Chip C.	C1508CH1H030CT-A
C950	CS0382	ChipTantalum	TMCMB1A226MTR
C951	cu3035	Chip C.	C1508JB1H102KT-A
C952	cu3035	Chip C.	C1508JB1H102KT-A
c953	cu3035	Chip C.	C1508JB1H102KT-A
C954	cu3035	Chip C.	C1508JB1H102KT-A
c955	c03035	Chip C.	C1508JB1H102KT-A
c956	CS0237	ChipTantalum	TMCMA1A475MTR
C957	cu3047	Chip C.	C1508JB1H103KT-A
c958	CU3035	Chip C.	C1508JB1H102KT-A
CN902	UE0185	Connector	B6P-BC-2
0941	xD0233	Diode	1SV217TPH4
L941	040110	Į.įg	0A0110
L942	000047	Chip L	NL322522T-4R7J
0941	xE0006	FET	2SK210GR-TE85L
0942	XT0059	Transistor	2SC3082KT1460
0943	XT0059	Transistor	2SC3082KT1460
0944	XT0059	Transistor	2SC3082KT1460
0945	xT0059	Transistor	2SC3082KT1460
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Š	Parts No.	Description	Parts Name	Ref.	Parts No.
R940	RK3026	Chip R	ERJ3GSYJ101V	C984	CU3011
R941	PK 3050	Chip R.	ERJ3GSYJ103V	C985	cu3006
R942	RK3054	Chip R.	ERJ3GSYJ223V	0860	CU3006
R943	FK 3062	Chip R.	ERJ3GSYJ104V	C987	cu3035
R944	PK 3062	Chip R.	ERJ3GSYJ104V	C988	cs0382
R945	PK3031	Chip R.	ERJ3GSYJ271V	6860	CU3035
R946	RK3054	Chip R.	ERJ3GSYJ223V	0660	CU3035
R947	PK 3054	Chip R.	ERJ3GSYJ223V	C991	cu3101
R948	PK 3042	Chip R.	ERJ3GSYJ222V	C392	cu3101
R949	PX 3054	Chip R.	ERJ36SYJ223V	CN903	UE0183
R950	RX 3054	Chip R.	ERJ3GSYJ223V	CN904	UE0182
R951	FK 3038	Chip R.	ERJ3GSYJ102V	1961	xD0233
R952	PK 3030	Chip R.	ERJ3GSYJ221V	0962	xD0266
R953	RK 3030	Chip R.	ERJ3GSYJ221V	6960	xD0233
R954	RK 3040	Chip R.	ERJ3GSYJ152V	0962	xD0233
R955	PK 3032	Chip R.	ERJ363YJ331V	9960	XD0272
R956	PK 3035	Chip R.	ERJ3GSYJ561V	7967	0A0110
R957	RK3036	Chip R.	ERU3GSYJ681V	L963	0C0047
R958	PK 3050	Chip R.	ERJ3GSYJ103V	1965	0 X 0110
R959	RX3047	Chip R.	ERJ36SYJ562V	7366	0C0047
150106			VCO Case (A)	۲-968	0.40110
		VCO3 Unit	Jit.	6967	000047
		000	\	1960	xE0006
963	CU3026		C1608CH1H181JT-A	7960	x00140
C962	cu3011		C1608CH1H100CT-A	0963	XE0006
C963	cu3020		C1608CH1H560JT-A	0964	x00140
C964	cu3013		C1608CH1H150JT-A	0962	xE0006
C965	cu3012		C1608CH1H120JT-A	9960	x00140
9960	cu3006	Chip C.	C1608CH1H050CT-A	R960	PK 3054
C967	cu3035	Chip C.	C1608JB1H102KT-A	R961	PK3062
6965	CS0382	ChipTantalum	IMCMB1A226MTR	R962	PK3062
6960	cu3035	Chip C.	C1608JB1H102KT-A	R963	FK 3028
0260	CU3035	Chip C.	C1608JB1H102KT-A	R964	PK 3044
C971	cu3022	Chip C.	C1608CH1H820JTA	R965	PK3030
C972	cu3009	Chip C.	C1608CH1H080CT~A	R966	PK 3062
C973	cu3018	Chip C.	C1608CH1H390JT-A	F967	FK3062
C974	cu3012	Chip C.	C1608CH1H120JT~A	R968	FK 3028
C975	CU3010	Chip C.	C1608CH1H090CT-A	R969	PK 3044
0376	cu3006	Chip C.	C1608CH1H050CT-A	R970	PK 3030
C977	CU3035	Chip C.	C1608JB1H102KT-A	R971	RK3062
C978	CS0382	ChipTantalum	TMCMB1A226MTR	R972	PK 3062
6250	cu3035	Chip C.	C1608JB1H102KT-A	R973	FK3028
0860	CU3035	Chip C.	C1608JB1H102KT~A	R974	PK 3044
C981	CU3018	Chip C.	C1608CH1H390JT-A	R975	PK3030
C982	cu3005	Chip C.	C1608CH1H040CT-A	R976	PK3046
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Ref.	:	: :	c
ġ	Paris No.	Describtion	Parts Name
C984	CU3011	Chip C.	C1608CH1H100CT-A
C985	900800	Chip C.	C1608CH1H050CT-A
9860	cu3006	Chip C.	C1608CH1H050CT-A
2860	CU3035	Chip C.	C1608JB1H102KT-A
C988	CS0382	ChipTantalum	TMCMB1A226MTR
6860	CU3035	Chip C.	C1608JB1H102KT-A
0660	cu3035	Chip C.	C1608JB1H102KT-A
C991	cu3101	Chip C.	C1608JB1C473KT-A
C992	cu3101	Chip C.	C1608JB1C473KT-A
CN903	UE0183	Connector	B4P-BC-2
CN904	UE0182	Connector	B3P-BC-2
1960	xD0233	Diode	1SV217TPH4
0962	xD0266	Diode	DAP236U T106
6960	xD0233	Diode	1SV217TPH4
5960	xD0233	Diode	1SV217TPH4
9960	XD0272	Diode	1SS356 TW11
7967	QA0110	Coil	QA0110
L963	0C0047	Chip L.	NL322522T-4R7J
1962	0A0110	Coil	QA0110
9967	0C0047	Chip L	NL322522T-4R7J
1968	0.40110	- So I	QA0110
6967	000047	Chip L.	NL322522T-4R7J
1960	XE0006	FET	2SK210GR-TE85L
7960	XU0140	Transistor	DTC124EUT106
0963	XE0006	FET	2SX210GR-TE85L
0964	xU0140	Transistor	DTC124EUT106
3960	XE0006	FET	2SK210GR-TE85L
9960	xU0140	Transistor	DTC124EUT106
R960	PK 3054	Chip R.	ERJ3GSYJ223V
R961	PK3062	Chip R.	ERJ3GSYJ104V
R962	RK3062	Ch. B.	ERJ3GSYJ104V
R963	FK 3028	Chip R.	ERJ3GSYJ151Y
R964	PK 3044	Chip R	ERJ3GSYJ332V
R965	PK 3030	Chip R.	ERJ3GSYJ221V
R966	PK3062	Chip R.	ERJ3GSYJ104V
R967	FK3062	Chip R.	ERJ3GSYJ104V
R968	FK3028	Chip R	ERJ3GSYJ151V
R969	PK 3044	Chip R.	ERJ3GSYJ332V
R970	PK3030	Chip R	ERJ3GSYJ221V
R971	RK3062	Chip R	ERJ3GSYJ104V
R972	PK3062	Chip R.	ERJ3GSYJ104V
R973	FK3028	Chip R.	ERJ3GSYJ151V
R974	FK 3044	Chip R	ERJ3GSYJ332V
R975	PK3030	Chip R.	ERJ36SYJ221V
R976	PX 3046	Chip R	ERJ36SYJ472V
R977	RK3046	Chip R	ERJ36SYJ472V

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ž	Parts No.	Description	Parts Name
R978	RK3046	Chip R.	ERJ3GSYJ472V
TC961	CT0012	Trimmer	CTZ-10AW
TC962	CT0012	Trimmer	CTZ-10AW
TC963	CT0012	Trimmer	CTZ-10AW
TS0107			VCO Case(B)
		NFB Unit	ilt.
. c633	CM0012	Mica C.	DM19 472J 500V
C637	CM0012		
D604	XD0264	Diode	MA30-B(TX)
0902	XD0264	Diode	MA30-B(TX)
L612	000048	Chip L.	NL322522T-100J
R621	PK 6026	Chup R.	ERJ1WYJ101H
R622	RK6026	Chip R.	ERJ1WYJ101H
R623	PK6023	Chip R.	ERJ1WYJ560H
R626	PX 6026	Chip R.	ERJIWYJIDIH
R627	PK 6026	Chip R.	ERJ1WYJ101H
R628	PK 6023	Chip R.	ERJ1WYJ560H
TH601	xS0021	Thermistor	TBPS1R103K440H5Q
		TONE U	Unit
C901	CS0049	ChipTantalum	TMCSA1C105MTR 70T
C907	cu3047	Chip C.	C1608J81H103KT-A 70T
C903	CS0372	ChipTantalum	TMCMB1C106MTR 70T
C904	cs0220	ChipTantalum	TMCMA1C225MTR 70T
C905	20060	Chip C.	C1608CH1H050CT-A 70T
C907	CU3101	Chip C.	C1608JB1C473KT-A 70T
CN991	UX1049	Wire	E-J19U 70T
1060	XD0254	Diode	1SS355 TE17 70T
10601	XA0052	5	S7116A 70T
080	XT0095	Transistor	2SC4081T106R 70T
R901	FK3050	Chip R.	
R902	PK 3058	Chip R	
R903	PK 3026		
R904	PK 3066	Chip R.	ERJ3GSYJ224V 70T
R905	FK3046	Chip R.	ERJ3GSYJ472V 70T
R906	FK 3057	Chip R.	ERJ3GSYJ393V 70T
R907	PK3034	Chip R.	ERJ3GSYJ471V 70T
R908	PK3057	Chip R.	ERJ3GSYJ393V 70T
R909	FK3058	Chip R.	ERJ3GSYJ473V 70T
R910		Chip R	ERJ3GSYJ223V 70T
S#901		Switch	SGM18001A 70T
x901	xB0001	Ctystal	FARC4CA0380K01R 70T
		FILT Unit	it
500	0117000		200121110200
55	c0/003	Chip C.	C3K31NAR102K

2	Parts No.	Description	Parts Name
C502	CU3047	Chip C.	C1608JB1H103KT-A
C503	cc5095	Ceramic C.	RCC12SL471J-L46AU
C504	cc5033	Ceramic C.	RCC12SL391J~L46AU
C205	CM0008		DM19 222J 500V
C506	cc5083		RCC08SL151J~L46AU
C507	CC5095		RCC12SL471J-L46AU
000	CU3047	رمانه ر. در	C1608JB1H103K1-A
510	CC5091	Corps C	C1505J5HIU3KI-A BCC11S13311-146411
C511	CC5089	Ceramic C	RCC10St 271.1~1 46AU
C512	cc5095	Ceramic C.	RCC12SL471J-L46AU
C513	CC5077	Ceramic C.	RCC07SL820J-L46AU
C514	660500	Ceramic C.	HM15SJ-SL681J
C515	CU3047	Chip C.	C1608JB1H103KT-A
C516	cu3047	Chip C.	C1608JB1H103KT-A
C517	cc5095		RCC12SL471J-L46AU
C518	690500	BMIC	RCC06SL470J-L46AU
C519	660500	_	HM15SJ-SL681J
C220	cc5081		RCC07SL121J-L46AU
C521	6.05079	Ceramic C.	RCC07SL101J-L46AU
C522	CU3047	ري د م	C1608JB1H103KT-A
5757	C0304/		C1608JB1H103K1-A
C525	CC5068	Ceramic C	RCCORST 200 I=1 AGAII
c526	CC5091	_	RCC11SL331,J-1 46Atl
C527	CC5077	_	RCC07SL820J~L46AU
C528	CC5085	Ceramic C.	RCC09SL181J-L46AU
C529	CU3047	Chip C.	C1608JB1H103KT-A
C530	CU3047	Chip C.	C1608JB1H103KT-A
C531	cc5079	Ceramic C.	RCC07SL101J-L46AU
C532	090500	Ceramic C.	RCC05SL150J-L46AE
C533	cc5085	Ceramic C.	RCC09SL181J-L46AU
C534	CC5069		RCC06SL470J-L46AU
C\$35	cc5077		RCC07SL820J-L46AU
c236	cu3047	Chip C.	C1608JB1H103KT-A
C537	cu3047		C1608JB1H103KT-A
C538	cc5064	-	RCC05SL220J-L46AE
C539	590520	Ceramic C.	RCC05SL270J-L46AE
C540	cc5081		RCC07SL121J-L46AU
C542	cc5064		RCC05SL220J-L46AE
C543	cc5073		RCC06SL560J-L46AU
C544	CU3047		C1608JB1H103KT-A
545	cu3027		C1608CH1H221JT-A
0546	cu3027		C1608CH1H221JT-A
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Comector Comector Comector Diode Diode Diode Diode Diode Diode Coil Coil Coil Coil Coil Coil Coil Coil	0.5	# UEO070 # UEO071 # MD039 # MD	CANSOR UEDO770 CANSOR C	C1608-JB1H103KT-A CM508 UE0070 C1608-JB1H103KT-A CM509 UE0071 C1608-JB1H103KT-A CM509 UE0071 C1608-JB1H103KT-A D501 XD0039 C1608-JB1H103KT-A D503 XD0039 C1608-JB1H103KT-A D504 XD0039 C1608-JB1H103KT-A D505 XD0039 C1608-JB1H103KT-A D505 XD0039 C1608-JB1H103KT-A D505 XD0127 C1608-JB1H103KT-A D501 XD0127 C1608-JB1H103KT-A D501 XD0127 C1608-JB1H103KT-A D501 XD0127 C1608-JB1H103KT-A D501 XD0127 C1608-JB1H102X1-A D501 XD0127 C1608-JB1H22X1-A D501 XD0039 C1608-JB1H331KT-A L502 GR0005 C1608-JB1H331KT-A L503 GR0006 C1608-JB1H371KT-A L503 GR0006 C1608-JB1H371KT-A L503 GR0006 C2231VZACG600 L509 GR0010 C2C31NZACG600	Chip C CIE02JBH103KT-A CA508 UE0070 Chip C CIE02JBH103KT-A CA509 UE0071 Chip C CIE02JBH103KT-A D501 X00039 Chip C CIE02JBH103KT-A D502 X00039 Chip C CIE02JBH103KT-A D503 X00039 Chip C CIE02JBH103KT-A D504 X00039 Chip C CIE02JBH103KT-A D505 X00014 Chip C CIE02JBH103KT-A D508 X00014 Chip C CIE02JBH103KT-A D508 X00014 Chip C CIE02JBH103KT-A D508 X00039 Chip C CIE02GCH14AT0JT-A D501 X00039 Chip C CIE02GCH14AT0JT-A D501 X00039 Chip C CIE02GCH14AT0JT-A L501 CR0006 Chip C CIE02GCH14AT0JT-A L501
Connector Diode Diode Diode Diode Diode Diode Diode Diode Diode Diode Coil Coil Coil Coil Coil Coil	_	9 UE0071 XD0039 XD0039 XD0039 XD0039 XD0039 XD0014 XD0114 XD0127 XD0039 XD0039 XD0039 XD0039 XD0039 XD0039 XD0010 XD0039	0.00039 0.0003	C1608JB1H103KT-A CM509 UE0071 C1608JB1H103KT-A D501 XD0039 C1608JB1H103KT-A D502 XD0039 C1608JB1H103KT-A D503 XD0039 C1608JB1H103KT-A D504 XD0039 C1608JB1H103KT-A D506 XD0039 C1608JB1H103KT-A D506 XD0039 C1608JB1H103KT-A D507 XD0127 C1608JB1H103KT-A D507 XD0127 C1608GH1H22L1-A D501 XD0127 C1608GH1H22L1-A D511 XD0039 C1608GH1H22L1-A D511 XD0039 C1608GH1H22L1-A D511 XD0039 C1608GH1H22L1-A D511 XD0039 C1608GH1H3104T-A L501 GR0006 C1608GH1H3104T-A L503 GR0006 C1608JB1H331KT-A L503 GR0006 C1608JB1H331KT-A L503 GR0006 C1608JB1H371KT-A L503 GR0006 C2231VZACG600 L509 GR0011 C2C31VZACG410J L509	Chip C C (1602-38 H103KT-A CM509 UE0071 Chip C C (1602-18 H103KT-A D501 X00039 Chip C C (1602-18 H103KT-A D502 X00039 Chip C C (1602-18 H103KT-A D504 X00039 Chip C C (1602-18 H103KT-A D504 X00039 Chip C C (1602-18 H103KT-A D505 X00039 Chip C C (1602-18 H103KT-A D507 X00127 Chip C C (1602-18 H103KT-A D507 X00127 Chip C C (1602-18 H103KT-A D509 X0014 Chip C C (1602-18 H170-A D509 X00039 Chip C C (1602-18 H170-A D509 X00039 Chip C C (1602-18 H147 HT-A L501 CR0006 Chip C
Diode Diode Diode Diode Diode Diode Diode Diode Diode Diode Coil Coil Coil Coil Coil Coil Coil Coil		XD0039 XD0039 XD0039 XD0039 XD0039 XD0127 XD0127 XD0127 XD0127 XD0127 XD0339 XD0339 XD0339 XD0039 XD0039 XD00000 ACCOOL A	D501 X00039 D502 X00039 D503 X00039 D504 X00039 D505 X00039 D505 X00039 D506 X00014 D509 X00014 D510 X00127 D511 X00039 D512 X00039 D512 X00039 D512 X00039 D513 X00039 D513 X00039 D514 X00039 D515 X00039 D516 X00039 D517 X00039 D518 X00039 D518 X00039 D518 X00039 D519 X	C1608-JB1H103KT-A C1608-JB1H103	Chip C C1602JB1H103KT-A D501 X00039 Chip C C1602JB1H103KT-A D502 X00039 Chip C C1602JB1H103KT-A D503 X00039 Chip C C1602JB1H103KT-A D504 X00039 Chip C C1602JB1H103KT-A D505 X00039 Chip C C1602JB1H103KT-A D505 X00127 Chip C C1602JB1H103KT-A D503 X0014 Chip C C1602CH1H470JT-A D511 X00339 Chip C C1602CH1H470JT-A D512 X00339 Chip C C1602CH1H470JT-A L501 C1602CH Chip C C1602CH1H470JT-A L502 C1602CH Chip C C1602LB1H471KT-A L
o Coi	Diode Diode Diode Diode Diode Diode Diode Diode Coil Coil Coil	XD0039 Diode XD0039 Diode XD0039 Diode XD0039 Diode XD0039 Diode XD0127 Diode XD0014 Diode XD0014 Diode XD0039 Diode XD0039 Diode XD0039 Diode XD0039 Diode XD0000 Coil GR0000 Coil GR0000 Coil GR0000 Coil GR0010 Coil GR0011 Coil GR475H Air Core Coil GR45H Air Core Coil GR45H Air Core Coil GR45H Air Core Coil GR0013 Coil	0502 X00039 Diode 0503 X00039 Diode 0504 X00039 Diode 0504 X00039 Diode 0505 X00039 Diode 0506 X00039 Diode 0507 X00017 Diode 0508 X00014 Diode 0509 X00014 Diode 0510 X00127 Diode 0511 X00039 Diode 0512 X00039 Diode 0513 X00039 Diode 0514 X00039 Diode 0515 X00039 Diode 0516 X00039 Diode 0517 L503 OR0009 0611 L504 OR0009 071 L505 OR0009 08001 Coil L506 ORA75H Air Core Coil L509 ORA75H Air Core Coil L510 ORA45H Air Core Coil	C1608.BH H103AT-A D502 XD0039 D1 ode C1608.BH H103AT-A D503 XD0039 D1 ode C1608.BH H103AT-A D504 XD0039 D1 ode C1608.BH H103AT-A D505 XD0039 D1 ode C1608.BH H103AT-A D506 XD0039 D1 ode C1608.BH H103AT-A D507 XD0039 D1 ode C1608.BH H103AT-A D507 XD0014 D1 ode C1608.BH H103AT-A D510 XD0014 D1 ode C1608.BH H103AT-A D511 XD0039 D1 ode C1608.BH H103AT-A D512 XD0039 D1 ode C1608.CH H47.DT-A D513 XD0039 D1 ode C1608.CH H47.DT-A L501 XD0039 D1 ode C1608.CH H47.DT-A L501 C601 C611 C1608.CH H47.DT-A L504 C601 C611 C1608.BH H47.NT-A L504 C6000 C611 C1608.BH H47.NT-A L505 C6000 C611 C1608.BH H47.NT-A L506	Ohip C C1608.BH103KT-A D502 X00339 Diode Ohip C C1608.BH103KT-A D503 X00339 Diode Ohip C C1608.BH103KT-A D504 X00339 Diode Ohip C C1608.BH103KT-A D505 X00339 Diode Ohip C C1608.BH103KT-A D506 X00339 Diode Ohip C C1608.BH103KT-A D507 X00127 Diode Ohip C C1608.BH103KT-A D508 X00014 Diode Ohip C C1608.BH103KT-A D509 X00014 Diode Ohip C C1608.BH103KT-A D509 X00014 Diode Ohip C C1608.BH1470JT-A D511 X00039 Diode Ohip C C1608.HH1470JT-A D512 X00039 Diode Ohip C C1608.HH1470JT-A L501 R0006 Co.1 Ohip C C1608.HH1470JT-A L502 R0006 Co.1 Ohip C C1608.HH1471KT-A L503 R0009 Co.1
o Coi	Diode Diode Diode Diode Diode Diode Diode Coil Coil Coil Arr Core Coil	XD0039 Diode XD0039 Diode XD0039 Diode XD0039 Diode XD0177 Diode XD0014 Diode XD0015 Diode XD0039 Diode XD0039 Diode XD0039 Diode XD0039 Diode XD0039 Coil GR0006 Coil GR0007 Coil GR0009 Coil GR0010 Coil GR0011 Coil GR0010 Coil GRA45H Air Core Coil GRA5H Air Core Coil	D503 X00039 Diode	C168BB1H193AT-A D563 XD0039 D10de C168BB1H193AT-A D504 XD0039 D10de C168BB1H103AT-A D505 XD0039 D10de C168BB1H103AT-A D506 XD0039 D10de C168BB1H103AT-A D507 XD0039 D10de C168BB1H103AT-A D508 XD0014 D10de C168BB1H103AT-A D510 XD0014 D10de C168BB1H103AT-A D511 XD0039 D10de C168BB1H103AT-A D512 XD0039 D10de C168CH1H22L1T-A D512 XD0039 D10de C168CH1H22L1T-A D512 XD0039 D10de C168CH1H2D1T-A L501 C6010 C011 C168CH1H2D1T-A L501 C60000 C011 C168CH1H47D1T-A L502 C60000 C011 C168CH1H47D1T-A L506 C60000 C011 C168CH1H47D1T-A L506 C60000 C011 C168CH1H47D1T-A L506 C60000 C011 </td <td>Chip C C1608.BH103KT-A D503 X00039 Diode Chip C C1608.BH103KT-A D504 X00039 Diode Chip C C1608.BH103KT-A D505 X00039 Diode Chip C C1608.BH103KT-A D506 X00039 Diode Chip C C1608.BH103KT-A D507 X00127 Diode Chip C C1608.BH103KT-A D509 X00014 Diode Chip C C1608.BH103KT-A D509 X00014 Diode Chip C C1608.BH103KT-A D509 X00014 Diode Chip C C1608.BH103KT-A D511 X00139 Diode Chip C C1608.HH27J-A D512 X00139 Diode Chip C C1608.HH37J-A D512 X00139 Diode Chip C C1608.HH47J-A L501 RR0005 Co.1 Chip C C1608.HH47J-A L502 RR0005 Co.1 Chip C C1608.HH47TKT-A L503 RR0009 Co.1 Chip</td>	Chip C C1608.BH103KT-A D503 X00039 Diode Chip C C1608.BH103KT-A D504 X00039 Diode Chip C C1608.BH103KT-A D505 X00039 Diode Chip C C1608.BH103KT-A D506 X00039 Diode Chip C C1608.BH103KT-A D507 X00127 Diode Chip C C1608.BH103KT-A D509 X00014 Diode Chip C C1608.BH103KT-A D509 X00014 Diode Chip C C1608.BH103KT-A D509 X00014 Diode Chip C C1608.BH103KT-A D511 X00139 Diode Chip C C1608.HH27J-A D512 X00139 Diode Chip C C1608.HH37J-A D512 X00139 Diode Chip C C1608.HH47J-A L501 RR0005 Co.1 Chip C C1608.HH47J-A L502 RR0005 Co.1 Chip C C1608.HH47TKT-A L503 RR0009 Co.1 Chip
o Soin	Diode Diode Diode Diode Diode Diode Coil Coil Coil Arr Core Coil	March Marc	D505 X00039 D10de D506 X00039 D10de D506 X00039 D10de D508 X0014 D10de D509 X0014 D10de D510 X00127 D10de D511 X00139 D10de D512 X00039 D10de D513 X00039 D10de D513 X00039 D10de D513 X00039 D10de D514 X00039 D10de D515 X00039 D10de D516 X00039 D10de D516 X00039 D10de D517 X00039 D10de D518 X00039 D10de D518 X00039 D10de D518 X00039 D10de D518 X00039 D10de D519 X00039 D10de D510 X00039 D1	C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1937T-A C1668JBH1717T-A	Chip C C1608J8HH03KT-A D504 X00039 D10de Chip C C1608J8HH03KT-A D506 X00039 D10de Chip C C1608J8HH03KT-A D507 X00127 D10de Chip C C1608J8HH03KT-A D508 X0014 D10de Chip C C1608J8HH03KT-A D509 X0014 D10de Chip C C1608CH14470JT-A D510 X00137 D10de Chip C C1608CH1427JT-A D511 X00399 D10de Chip C C1608CH14470JT-A D513 X00339 D10de Chip C C1608CH14470JT-A D513 X00339 D10de Chip C C1608CH14470JT-A L501 0R0004 Co.11 Chip C C1608CH1410JT-A L501 0R0005 Co.11 Chip C C1608J81H47TKT-A L503 0R0006 Co.11 Chip C C1608J81H47TKT-A L504 0R0007 Co.11 Chip C C1608J81H47TKT-A L505 0R0009 Co.11
1 io 2 a	Di ode Di ode Di ode Di ode Coi i Coi i Coi i Ar Core Coi	XDD039 Diode XDD127 Diode XDD014 Diode XDD014 Diode XDD017 Diode XDD039 Diode XDD039 Diode XDD039 Diode XDD039 Diode XDD039 Coil GR0006 Coil GR0007 Coil GR0010 Coil GR0011 Coil GRA75H Air Core Coil GKA5H Air Core Coil GKA5H Air Core Coil GRA5H Air Core Coil	0506 X00039 Diode 0507 X00127 Diode 0508 X0014 Diode 0509 X00014 Diode 0510 X00127 Diode 0511 X00399 Diode 0512 X00039 Diode 0513 X00039 Diode 1501 X00039 Diode 1501 X00039 Diode 1501 X00039 Diode 1502 CR0006 Coil 1503 CR0006 Coil 1504 OR0007 Coil 1506 OR0009 Coil 1507 OR0011 Coil 1508 OR0010 Coil 1509 ORA75H Air Core Coil 1501 ORA45H Air Core Coil	C1608-BH H103KT-A D506 X00339 D1 ode C1608-BH H103KT-A D507 X00127 D1 ode C1608-BH H103KT-A D508 X00014 D1 ode C1608-BH H103KT-A D510 X00177 D1 ode C1608-BH H103KT-A D511 X00039 D1 ode C1608-BH H22LJT-A D511 X00039 D1 ode C1608-BH H70JT-A D512 X00039 D1 ode C1608-BH H70JT-A L501 080004 Co.11 C1608-BH H70JT-A L501 080004 Co.11 C1608-BH H71KT-A L502 080005 Co.11 C1608-BH H71KT-A L503 080009 Co.11 C1608-BH H71KT-A L503 080009 Co.11 C1608-BH H71KT-A L504 080011 Co.11 C2C3 HV2ACG60D L506 080011 Co.11 C2C3 HV2ACG60D L507 08011 Co.11 C2C3 HV2ACG410U L509 08A75H Arr Core Co.11	Chip C C1608JBH103KT-A 0506 X00039 01 ode Chip C C1608JBH103KT-A 0507 X00127 01 ode Chip C C1608JBH103KT-A 0508 X00014 01 ode Chip C C1608JBH103KT-A 0510 X00127 01 ode Chip C C1608JBH103KT-A 0511 X0039 01 ode Chip C C1608CH14470JT-A 0511 X0039 01 ode Chip C C1608CH14470JT-A 0512 X0039 01 ode Chip C C1608CH14470JT-A 0513 X0039 01 ode Chip C C1608CH14470JT-A 0513 X0039 01 ode Chip C C1608CH14470JT-A 1501 0R0004 Co.11 Chip C C1608CH14470JT-A 1502 0R0005 Co.11 Chip C C1608JBH471KT-A 1503 0R0006 Co.11 Chip C C1608JBH471KT-A 1506 0R0009 Co.11 Chip C C1608JBH471KT-A 1506 0R0009 Co.11
1 io 2 a	Diode Diode Diode Diode Diode Diode Coil Coil Coil Coil Arr Core Coil	X00127 Diode X00014 Diode X0017 Diode X0039 Diode X00039 Diode X00039 Diode X00039 Coil CR006 Coil CR006 Coil CR007 Coil CR008 Coil CR009 Coil CR001 Coil CR01 Coil CR01 Coil CRA75H Air Core Coil CRA5H Air Core Coil	0507 X00127 Diode 0508 X00014 Diode 0509 X00014 Diode 0510 X00127 Diode 0511 X00039 Diode 0512 X00039 Diode 0513 X00039 Diode 1501 X00039 Diode 1501 X00004 Co.il 1502 AR0005 Co.il 1503 AR0006 Co.il 1504 AR0007 Co.il 1505 AR0009 Co.il 1506 AR0009 Co.il 1507 AR0011 Co.il 1508 AR0010 Co.il 1509 ARA5H Air Core Coil 1510 ARA45H Air Core Coil	C1608JBH103XT-A D507 X00127 D1 ode C1608JBH103XT-A D508 X00014 D1 ode C1608JBH103XT-A D510 X00127 D1 ode C1608JBH103XT-A D511 X00039 D1 ode C1608CH14710JT-A D512 X00039 D1 ode C1608CH1472JT-A D513 X00039 D1 ode C1608CH1472JT-A L501 0R0004 Co.11 C1608CH141DJT-A L502 0R0005 Co.11 C1608CH141DJT-A L503 0R0006 Co.11 C1608JBH33IKT-A L503 0R0009 Co.11 C1608JBH33IKT-A L505 0R0009 Co.11 C2C31NZACG60D L507 0R0010 Co.11 C2C3INZACG60D L508 0R071 Co.11 C2C3INZACG60D L509 0R031 Co.11	Chi D C. C1608JBH103XT-A D507 X00127 Di ode Chi D C. C1608JBH103XT-A D508 X00014 Di ode Chi D C. C1608JBH103XT-A D510 X00127 Di ode Chi D C. C1608JBH103XT-A D511 X00039 Di ode Chi D C. C1608CH1470JT-A D512 X00039 Di ode Chi D C. C1608CH1470JT-A D513 X00039 Di ode Chi D C. C1608CH1470JT-A L501 C00039 Di ode Chi D C. C1608CH1470JT-A L501 C011 C011 Chi D C. C1608CH1470JT-A L502 G00009 C011 Chi D C. C1608CH1470JT-A L502 G00000 C011 Chi D C. C1608JB1477TT-A L503 G0000 C011 Chi D C. C1608JB1477TT-A L504 G0000 C011 Chi D C. C1608JB147TT-A L504 G0000 C011 Chi D C. C1608JB147TT-A L505 G0000 C011
1 io 2 a	Diode Diode Diode Diode Diode Coil Coil Coil Coil Arr Core Coil	XD0014 Diode XD017 Diode XD039 Diode XD0039 Diode XD0039 Diode XD0039 Diode QR0004 Coil QR0005 Coil QR0006 Coil QR0009 Coil QR0010 Coil QRA5H Air Core Coil QKA5H Air Core Coil	0508 X00014 Diode 0509 X00014 Diode 0510 X00127 Diode 0511 X0039 Diode 0512 X0039 Diode 0513 X0039 Diode 1501 X0039 Diode 1501 X0039 Diode 1502 AR0004 Co.i. 1503 AR0006 Co.i. 1504 AR0007 Co.i. 1506 AR0009 Co.i. 1507 AR0011 Co.i. 1508 AR0011 Co.i. 1509 ARA5H Air Core Co.i. 1509 ARA5H Air Core Co.i. 1511 ARA45H Air Core Co.i.	C1608JBHJ03KT-A 9508 X00014 Diode C1608JBHJ03KT-A 0509 X00014 Diode C1608JBHJ03KT-A 0510 X00127 Diode C1608GHH470JT-A 0511 X00039 Diode C1608CHH470JT-A 0513 X00039 Diode C1608CHH470JT-A 1501 080004 Coil C1608CHH470JT-A 1502 080009 Coil C1608CHH470JT-A 1502 080009 Coil C1608JBH471KT-A 1503 080009 Coil C1608JBH471KT-A 1504 080007 Coil C1608JBH471KT-A 1506 080009 Coil C1608JBH471KT-A 1506 080009 Coil C2C31NZACG820J 1506 080011 Coil C2C31NZACG60D 1509 08A75H Air Core Coil	Chip C. C1608JBIH103XT-A D508 XD0014 Diode Chip C. C1608JBIH103XT-A D509 XD0014 Diode Chip C. C1608JBIH103XT-A D510 XD0127 Diode Chip C. C1608CH14470JT-A D511 XD0039 Diode Chip C. C1608CH14470JT-A D512 XD0039 Diode Chip C. C1608CH14470JT-A D513 XD0039 Diode Chip C. C1608CH14470JT-A L501 GR0004 Co.1 Chip C. C1608CH1470JT-A L501 GR0006 Co.1 Chip C. C1608CH1410JT-A L502 GR0006 Co.1 Chip C. C1608JB14471XT-A L503 GR0006 Co.1 Chip C. C1608JB14471XT-A L504 GR0007 Co.1 Chip C. C1608JB14471XT-A L504 GR0009 Co.1 Chip C. C1608JB14471XT-A L504 GR0009 Co.1 Chip C. C1608JB1447XT-A L505 GR0009 Co.1
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re Coi I	Diade Diade Coil Coil Coil Coil Ar Core Coil	XD0127 Diode XD033 Diode XD033 Diode XD033 Diode 0R004 Coil 0R005 Coil 0R006 Coil 0R007 Coil 0R008 Coil 0R001 Coil 0R01 Coil 0R05 Coil 0R07 Coil 0R07 Coil 0R07 Coil 0R45 Air Core Coil 0RA5H Air Core Coil 0RA5H Air Core Coil 0RA5H Air Core Coil 0R0013 Coil	D510 X00127 D10de D511 X0039 D10de D512 X0039 D10de D513 X0039 D10de L501 GR0004 Co.11 L502 GR0005 Co.11 L504 GR0007 Co.11 L505 GR0009 Co.11 L506 GR0009 Co.11 L506 GR0009 Co.11 L507 GR0011 Co.11 L508 GR0010 Co.11 L509 GRA75H Air Core Co.11 L510 GRA55H Air Core Co.11 L511 GRA45H Air Core Co.11	C1608-BIH103KT-A D510 X00127 D10-de C1608-BIH103KT-A D511 X00039 D10-de C1608-CHH27LJT-A D512 X00039 D10-de C1608-CHH27LJT-A D513 X00039 D10-de C1608-CHH27LJT-A L501 GR0004 Co.1 C1608-BIH47LMT-A L502 GR0005 Co.1 C1608-BIH471KT-A L504 GR0007 Co.1 C1608-BIH471KT-A L505 GR0009 Co.1 C1608-BIH471KT-A L505 GR0009 Co.1 C2C31NZACG620J L507 GR0011 Co.1 C2C31NZACG60D L507 GR0010 Co.1 C2C31NZACG410J L509 GRA75H Arr Core Co.1	Chip C. C1608J8H103KT-A D510 X00127 D10de Chip C. C1608CH1470JT-A D511 X00039 D10de Chip C. C1608CH142JJT-A D512 X00039 D10de Chip C. C1608CH1472JJT-A D513 X00039 D10de Chip C. C1608CH1472JJT-A L561 GR0004 Co.1 Chip C. C1608CH1472JJT-A L562 GR0005 Co.1 Chip C. C1608J8H47KT-A L503 GR0006 Co.1 Chip C. C1608J8H47KT-A L504 GR0007 Co.1 Chip C. C1608J8H47KT-A L504 GR0009 Co.1 Chip C. C1608J8H47KT-A L504 GR0009 Co.1 Chip C. C1608J8H47KT-A L505 GR0009 Co.1 Chip C. C263HV4CG80 L506 GR009 Co.1 Chip C. C223HV4CG80 L507 GR011 Co.1 Chip C. C223HV4CG80 L508 GR011 Co.1 Chip C
ore Coil	Diode Diode Coil Coil Coil Coil Ar Core Coil	X00039 Diode X00039 Diode X00039 Diode 0R0004 Coil 0R0005 Coil 0R0006 Coil 0R0009 Coil 0R0009 Coil 0R001 Coil 0R001 Coil 0R010 Coil 0R010 Coil 0R010 Coil 0R05 Air Core Coil 0RA5H Air Core Coil 0RA5H Air Core Coil 0R013 Coil	D511 X00039 Diode D512 X00039 Diode D513 X00039 Diode L501 DR0004 Coil L502 DR0005 Coil L503 DR0005 Coil L506 DR0009 Coil L506 DR0009 Coil L506 DR0001 Coil L507 DR0011 Coil L508 DR0011 Coil L508 DR0011 Coil L509 DRA75H Air Core Coil L510 DRA65H Air Core Coil L511 DRA45H Air Core Coil	CTG08CH1H470JT-A D511 XD0039 D10de CTG08CH1H271JT-A D512 XD0039 D10de CTG08CH1H470JT-A D513 XD0039 D10de CTG08CH1H70JT-A L501 OR0004 Co.1 CTG08LH1H1DJT-A L502 OR0005 Co.1 CTG08LH1H1DJT-A L503 OR0006 Co.1 CTG08LH1H1DJT-A L504 OR0006 Co.1 CTG08LH1H1DJT-A L503 OR0006 Co.1 CTG08LH1H1DJT-A L504 OR0006 Co.1 CTG08LH1H1DJT-A L509 OR0006 Co.1 CTG08LH1H1DJT-A L509 OR0006 Co.1 CTG08LH1H1DJT-A L509 OR0006 Co.1 CTG08LH1H1DJT-A L509 OR0009 Co.1 CTC01RTACG620 C.501 Co.1 Co.1 CZC31RZACG620 C.501 Co.1 Co.1 CZC31RZACG470 L509 ORA75H Arr Core Co.1	Chip C C (1608CH14470.3T-A) D511 X00039 Diode Chip C C (1608CH1427.4T-A) D512 X00039 Diode Chip C C (1608CH1427.4T-A) L501 R0004 Co.1 Chip C C (1608CH1422.0T-A) L501 R0004 Co.1 Chip C C (1608CH1917.T-A) L502 R0005 Co.1 Chip C C (1608JH147.RT-A) L503 RR0005 Co.1 Chip C C (1608JH147.RT-A) L504 RR0007 Co.1 Chip C C (1608JH147.RT-A) L504 RR0007 Co.1 Chip C C (1608JH147.RT-A) L505 RR0009 Co.1 Chip C C (1608JH147.RT-A) L506 RR0009 Co.1 Chip C C (2031RACG80.T) L506 RR0011 Co.1 Chip C C (2031RACG80.T) L507 RR011 Co.1 Chip C C (2031RACG80.T) L508 RR75H Art Core Co.1
ore Coil	Diode Diode Coil Coil Coil Coil Arr Core Coil	X00039 Diode X00039 Diode 0R0004 Coil 0R0005 Coil 0R0006 Coil 0R0009 Coil 0R0009 Coil 0R001 Coil 0R001 Coil 0R010 Coil 0R010 Coil 0R010 Coil 0RA75H Air Core Coil 0RA5H Air Core Coil 0RA5H Air Core Coil 0R013 Coil	D512 X00039 Diode D513 X00039 Diode L501 DR0004 Co.i. L502 DR0005 Co.i. L503 DR0005 Co.i. L504 DR0007 Co.i. L505 DR0009 Co.i. L506 DR0009 Co.i. L506 DR0010 Co.i. L507 DR0011 Co.i. L508 DR0010 Co.i. L509 DRA75H Air Core Co.i. L510 OKA65H Air Core Co.i. L511 OKA45H Air Core Co.i.	C1668CH H2Z1JT-A D512 X00039 D10de C1608CH H4Z0JT-A D513 X00039 D10de C1608CH H4Z0JT-A L501 GR0004 Go.1 C1608CH H1D1JT-A L502 GR0005 Go.1 C1608LH1D1JT-A L503 GR0006 Go.1 C1608LH1D1JT-A L504 GR0005 Go.1 C1608LH1ATIKT-A L504 GR0006 Go.1 C1608LH47IKT-A L505 GR0009 Go.1 C1608LH47IKT-A L505 GR0009 Go.1 C231RZACG620J L506 GR0009 Go.1 C2C31RZACG62D L507 GR0011 Go.1 C2C31RZACG470J L509 GRA75H Arr Core Co.1	Chip C C (1608CHH72L)T-A D512 X00039 Diode Chip C C (1608CHH72L)T-A D513 X00039 Diode Chip C C (1608CHH72L)T-A L561 GM0004 Cci I Chip C C (1608CHH71R)T-A L502 GM0005 Cci I Chip C C (1608LH71R)T-A L503 GM0005 Cci I Chip C C (1608LH71R)T-A L504 GM0005 Cci I Chip C C (1608LH71R)T-A L505 GM0009 Cci I Chip C C (2018LACCR00) L506 GM0009 Cci I Chip C C (2021RACCR00) L507 GM0010 Cci I Chip C C (2021RACCR00) L508 GM010 Cci I
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ore Coil	60:1: 60:1: 60:1: 60:1: Ar Core Coil	000000 0011 000000 0011 000000 0011 000000 0011 000011 0011 000010 0011 000010 0011 000010 0011 000010 0011 000010 0011 000010 0011	L503 GR0006 G011 L503 GR0006 G011 L505 GR0009 G011 L506 GR0009 G011 L507 GR0011 G011 L508 GR0010 G011 L508 GR0011 G011 L509 GRX75H Arr Core C011 L510 GRA5H Arr Core C011 L511 GRA45H Arr Core C011	C1608JBH47IKT-A L503 0R0006 Co II C1608JBH47IKT-A L504 0R0007 Co II C1608JBH47IKT-A L504 0R0009 Co II C1608JBH47IKT-A L506 0R0009 Co II C2031RZACGE2U L507 0R0010 Co II C2C31RZACGE2U L507 0R0011 Co II C2C31RZACGE2U L507 0R0011 Co II C2C31RZACGE2U L508 0R0011 Co II	Chip C C1608J81H471KT-A L503 0R0006 C611 Chip C C1608J81H471KT-A L504 0R0007 C611 Chip C C1608J81H471KT-A L505 0R0009 C611 Chip C C2031R2AC6820J L506 0R0009 C611 Chip C C2031R2AC6820J L507 0R0011 C611 Chip C C2031R2AC68000 L509 0R075H Arr Core C611
ore Coil	Coil Coil Coil Coil	Coll Coll	L504 DR0007 Goil L505 DR0009 Coil L506 DR0018 Coil L507 DR0111 Coil L508 DR0110 Coil L509 DRA75H Arr Core Coil L510 OKA65H Arr Core Coil L511 OKA45H Arr Core Coil	C1608JB1H33IKT-A L504 C1608JB1H47IKT-A L505 CM316CH880J100AT C2C31N2ACG820J C2C31N2ACG600D C2C31N2ACG600D L508 GR0010 C2C31N2ACG470J L509 GR0010 C5011	Chip C C1608J81H471KT-A L504 GR0007 Coil Chip C C1608J81H471KT-A L505 GR0009 Coil Chip C CX31R2ACG820J10AT L506 GR0008 Coil Chip C C2C31R2ACG820J L507 GR0011 Coil Chip C C2C31R2ACG80D L508 GR0010 Coil Chip C C2C31R2ACG10J L509 GRA75H Air Core Coil
ore Coil	Coil Coil Coil Air Core Coil	000009 Coii 000008 Coii 000010 Coii 000010 Coii 000475H Air Core Coii 00045H Air Core Coii 000013 Coii	1505 080009 Coil 1506 080008 Coil 1507 080011 Coil 1508 080010 Coil 1509 0x4754 Air Core Coil 1510 0x4654 Air Core Coil 1511 0x4454 Air Core Coil	C1608JB1H47IKT-A L505 0R0009 Coii CM316CH680J100AT L506 0R0008 Coii C2C31NZACG620J L507 0R0011 Coii C2C31NZACG60D L508 0R0010 Coii C2C31NZACG470J L509 0RA75H Air Core Coil	Chip C. C1609JB1H471KT-A L505 0R0009 Coil Chip C. CA316CH680J100AT L506 0R0008 Coil Chip C. C2C31NZACG820J L507 0R0011 Coil Chip C. C2C31NZACG060D L568 0R0010 Coil Chip C. C2C31NZACG470J L509 0RA75H Air Core Coil
core Coil	Coil Coil Coil Air Core Coil	0A0008 Coil 0A0011 Coil 0A0010 Coil 0KA75H Ar Core Coil 0KA5H Air Core Coil 0KA55H Air Core Coil 0KA55H Core Coil	L506 0R0008 CGII L507 0R0011 CGII L508 0R0010 CGII L509 0KA75H Air COre CGII L510 0KA65H Air COre CGII L511 0KA45H Air COre CGII	C. CM316CH680J100AT L506 GR000B Co.i I C. CZC31N2ACG820J L507 GR0011 Co.i I C. CZC31N2ACG60D L508 GR0010 Co.i I C. CZC31N2ACG70J L509 GRA75H Arr Co.e Co.i I	Chip C. CR816CH680J100AT L506 0R0009 Cail Chip C. CZC31NZACG20J L507 0R0011 Cail Chip C. CZC31NZACG60D L508 0R0010 Cail Chip C. CZC31NZACG470J L509 0KA75H Air Core Coil
ore Coil	Coil Coil Air Core Coil	QR0011 Co.il QKA75H Ar Core Coil QKA65H Ar Core Coil QKA45H Ar Core Coil QKA5H Ar Core Coil QKA5H Ar Core Coil QKA5H Ar Core Coil	L507 0R0011 Goil L508 0R0010 Goil L509 0RA75H Air Gore Coil L510 0RA65H Air Core Coil L511 0RA45H Air Core Coil	C. C2C31W2ACG820J L507 0R0011 Co:11 C C2C31W2ACG60D L508 0R0010 Co:11 C C2C31W2ACG70J L509 0KA75H Air Core Co:1	Chip C. C2C31N2ACG820J L507 GR0011 Coil Chip C. C2C31N2ACG060D L508 GR0010 Coil Chip C. C2C31N2ACG470J L509 GKA75H Air Core Coil
ore Coil	Coil Air Core Coil	QR0010 Co.II QKA75H Ar Core Coil QKA65H Ar Core Coil QKA45H Air Core Coil QKA55H Air Core Coil QR0013 Coil	L508 0R0010 Co.i. L509 0KA75H Air Core Co.i. L510 0KA65H Air Core Co.i. L511 0KA45H Air Core Co.i.	C C2C31N2ACG060D L508 0R0010 Coil C C2C31N2ACG470J L509 0KA75H Air Core Coil	Chip C. C2C31N2ACG050D L508 0R0010 Coil Chip C. C2C31N2ACG470J L509 0KA75H Air Core Coil
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	Air Core Coil	OKA5H Air Core Coil OROSH Air Core Coil OROS13 Coil	L511 QKA45H Air Core Coil	LS10 OKA65H Air Core Coll	C. C3X31NAR102K 1.510 0XA65H Air Core Coll
	Air Core Coil	0KA55H Air Core Coil 0R0013 Coil		L511 QKA45H Air Core Coil	C. C1608JB1H103XT-4 L511 QKA45H Air Core Coil
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	Chip L.	ac0124 Chip L.	ac0124 Chip L.	L515 000124 Chip L.	C. C2012JB1C104XT-A L515 0C0124 Chip L.
	Chip L.	000124 Chip L.	Chip L.	L516 000124 Chip L.	C. C2012JB1C104KT-A L516 0C0124 Chip L.
	1 1 00	000338 Coil	L517 000338 Coll	C C1608JB1H103KT-A L517 0C0338 Co.1	C C1608JB1H103KT-A L517 0C0338 Co.1
Air Core Coil C01L MR5.0 7.5T 0.6	Air Core Coil	0KA75G Air Core Coil	Air Core Coil	L518 QKA75G Air Core Coil	C. C2012JB1C104KT-A L518 0KA75G Air Core Coil
	Coil	0F0013 Coil	Coil	L519 0R0013 Coil	C. C2012JB1C104KT-A L519 0R0013 Coil
Air Core Coil C01L MR5. 0 7, 5T 0 6	Air Core Coil	0XA756 Air Core Coil	Air Core Coil	L520 0XA75G Air Core Coil	Chip C. C2012JB1C104KT-A L520 0KA756 Air Core Coil
	Air Core Coil	0XA55G Air Core Coil	Air Core Coil	L521 0XA556 Air Core Coil	C2012JB1C104XT-A L521 0XA55G Air Core Coil
NI 3725,721-R	Chip 1 Ni 3225527ER	000123 Chip Ni 3225221_R	AU L524 000123 Chip NI 3225272R	C. RCC12SL471J-L46AU L524 QC0123 Chip NI 3225221-R	Ceramic C. RC125L471J-L46AU L524 QC0123 Chip N1 3225221-R
	- CIII 5	GC0123		COLOGIC COLOGI	Comment of the Commen
Chip L. NL322522T-R22J-3	Chip L.	000126 Chip L.	L525 0C0126 Chip L.	C. HM155J-SL681J L525 GC0126 Chip L.	Leramic C. HM35SJ-SL681J L525 000126 Chip L.
Chip L. NL322522T-R22J-3	Chip L.	0C0126 Chip L.	Chip L.	L526 0C0126 Chip L.	Ceramic C. RCC12SL471J-L46AU L526 0C0126 Chip L.
	Chip L	0C0473 Chip L	Chip L	L527 0C0473 Chip L	C1608CH1H101JT-A L527 QC0473 Chip L
	Chin	OCOUR? Chip	1.528 OCOURT	or TMP-J02X-A1 L528 000087 Chin	Connector TMP-J02X-A1 L528 GCD087 Chip
	Chip L	000087 Chip L.	L528 0C0087 Chip L.	TMP-J02X-A1 Chip L.	Connector TMP-J02X-A1 L528 0C0087 Chip L.
Chip L. NL322522T-121J	Chip L.	ac0087 Chip L.	L529 000087 Chip L.	L529 0C0087 Chip L.	Connector TMP-J02X-A1 L529 000087 Chip L.
	Chip L	000087 Chip L.	L530 0C0087 Chip L.	JPW01 R-01 Chip L.	JPW01 R-01 L530 0C0087 Chip L.
	. ز. دی	acunar chip L.	LOSO GOUDS! CALP L.	DEMOT DE DI	Basista Deal I all County Coun
	Chip L	0C0048 Chip L	L531 QC0048 Chip L	JPW01 R-01 L531 0C0048 Chip L	Resistor JPW01 R-01 L531 QC0048 Chip L.
	Chip in	accode Chip L	L531 000048 Chip L	JPW01 R-01 L531 0C0048 Chip L.	Resistor JPWI R-01 L531 000048 Chip L
9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9		acoo87 acoo87 acoo48	L L L L L L L L L L L L L L L L L L L	TWF-J02X-A1 L526 UC0087 TWF-J02X-A1 L529 CC0087 JPW01 R-01 L530 CC0087	Compector TWP-J02X-A1 L528 000087 Resistor JPWJ R-01 L530 000087 Resistor JPWJ R-01 L531 000048
	000017 0000124 0000124 0000138 0000138 000136 000126 000126 0001273 000087 000087		L514 L514 L515 L516 L517 L518 L518 L520 L520 L524 L526 L526 L526 L527 L528 L529 L529 L529 L529 L529 L529	C C C C C C C C C C	Chip C C1608CHIHI2JJA L514 Chip C C2012JBIC104KT-A L515 Chip C C2012JBIC104KT-A L515 Chip C C2012JBIC104KT-A L515 Chip C C2012JBIC104KT-A L517 Chip C C2012JBIC104KT-A L517 Chip C C2012JBIC104KT-A L519 Chip C C2012JBIC104KT-A L519 Chip C C2012JBIC104KT-A L519 Chip C C2012JBIC104KT-A L520 Chip C C2012JBIC104KT-A L520 Chip C C2012JBIC104KT-A L520 Chip C C2012JBIC104KT-A L520 Ceramic C C2012JBIC104KT-A L520 Ceramic C HMISSJ-SL681J L526 Chip C C163BCHH101JT-A L520 Chip C C163BCHH101JT-A L520 Connector TMP-J02K-A1 L520 Connector TMP-J02K-A1 L520 Resistor JPW01 R-01 L531 Connector JPW01 R-01 L531

Sef.	Parts No.	Description	Parts Name
R534	R00108	Resistor	.iPW01 R-01
R. 501	חרטטפ	Relay	
RL502	ULOOOR	Relay	AG201344
RL503	90007	Relay	AG201344
RL504	900070	Relay	AG201344
RL505	900070	Relay	AG201344
RL506	900070	Reiay	AG201344
RL507	900070	Relay	AG201344
RL508	0L0006	Relay	AG201344
RL509	900070	Relay	AG201344
RL510	900070	Relay	AG201344
RL511	900070	Relay	AG201344
RL512	900070	Relay	AG201344
RL513	0F0000	Relay	AG201344
RL514	UL0010	Relay	FBR22012
RL515	010010	Relay	FBR22012
SA501	EU0001	Surge absorber	DSA-301LA
TC501	СТ0035	Trimmer	ECV1ZW20X53T
TC502	СТ0035	Trimer	ECV1ZW20X53T
W506	UX1079	Fire	ER- 2
W507	UA0050	Power cord	FFC SMCD-12X95-BD
W508	UX1080	#Ire	ER- 3
YZ0042			Adhesion G-17 1g
		PA Unit	It
c601	cu8042	Chip C.	C2012JB1C104KT-A
C602	CU8042	Chip C.	C2012JB1C104KT-A
C603	90080	Chip C.	C1608CH1H050CT-A
C604	CU3012	Chip C	C1608CH1H120JT-A
9090	cn3029	Chip C	C1608JB1H331KT-A
C607	cn3023	Chip C.	C1608CH1H101JT-A
C608	CU8042	Chip C.	C2012JB1C104KT-A
6090	cu3035	Chip C.	C1608JB1H102KT-A
C610	CE0350	Electrolytic C.	16NV100HC
C611	cu8042	Chip C	C2012JB1C104KT-A
C612	cu3035	Chip C.	C1608JB1H102KT-A
C613	cn8002	Chip C.	C2012JB1H103KT-A
C614	cn0089	Chip C.	C2012CH1H331J
C615	CU8002	Chip C.	C2012JB1H103KT~A
C616	cu9023	Chip C.	C3216CH1H121JT-A
C617	CE0350	Electrolytic C.	16MV100HC
C618	cu8042	Chip C.	C2012JB1C104KT-A
C619	cu3035	Chip C.	C1608JB1H102KT-A
ce20	cu7005	Chip C.	C2C31N2ACG330J
C621	600600	Chip C.	C3216JB1H1D3KT-A
6837	CU7038	Spin C	C2C31N24CG560 !

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Hef.	Date No.			Ref	-
ò	Parts No.	Description	Parts Name	ž	-
C623	CU8032	Chip C.	C2012JB1E223KT-A	c672	
C624	CU8032	Chip C.	C2012JB1E223KT-A	C673	
C625	CU8032	Chip C.	C2012JB1E223KT-A	CN608	
9290	CM0006	Mica C.	DM19 152J 500V	CN609	
C627	CU8032	Chip C.	C2012JB1E223KT-A	CP601	
C628	CU8032	Chip C.	C2012JB1E223KT-A	CP602	- 2
C629	CU8032	Chip C.	C2012JB1E223KT-A	CP603	m
0630	CE0364	Electrolytic C.	16MV47SWB+TS	CP604	**
C631	CU8042	Chip C.	C2012JB1C104KT-A	CP605	
C632	CU3035	Chrp C.	C1608J81H102KT-A	CP606	
C634	CM0004	Mica C.	DM19 102J 500V	CP607	
C635	CC5095	Ceramic C.	RCC12SL471J-L46AU	CP608	
9690	CC5067	Ceramic C.	RCC05SL330J-L46AE	CP609	
c638	cu3035	Chip C.	C1608JB1H102KT-A	CP610	_
C639	CU8042	Chip C.	C2012JB1C104KT-A	CP611	
C640	CU3047	Chip C.	C1608JB1H103KT-A	D601	×
C641	CE0353	Electrolytic C.	16MV470HC	D602	=
C642	CU8042	Chip C.	C2012JB1C104KT-A	9090	-
C643	CU3047	Chip C.	C1608JB1H103KT-A	090	-
C644	cu3035	Chip C.	C1608JB1H102KT~A	D608	=
c645	cu3035	Chip C.	C1608JB1H102KT~A	609d	-
c646	cu3035	Chip C.	C1608JB1H102KT-A	0190	≍
C647	CE0343	Electrolytic C.	16MV 1000HC+T	1190	≍
C648	CU3047	Chip C.	C1608JB1H103KT-A	D612	≍
C649	600600	Ohip C.	C3216JB1H103KT-A	FB601	
C650	CU3047	Chip C.	C1608JB1H103KT-A	FB602	
C651	CU3047	Chip C.	C1608JB1H103KT-A	FB603	
C652	CU3047	Chip C.	C1608JB1H103KT-A	FB604	
C653	cn3035	Chip C	C1608JB1H102KT-A	FB605	
C654	CE0201	Electrolytic C.	16MV10SZ	FB606	
c655	CE0353		16MV470HC	FB607	
9990	CU3047		C1608JB1H103KT-A	10601	
c657	CU3047		C1608JB1H103KT-A	1601	<u> </u>
6558	CU3047		C1608JB1H103KT-A	J602	j
C659	CU3047		C1608JB1H103KT-A	L601	ă
1997	CU3047		C1608JB1H103KT-A	L602	ō
7993	cu3047		C1608JB1H103KT-A	L603	č
C663	CU8042		C2012JB1C104KT-A	1.604	ŏ
C664	CU8042		C2012JBtC104KT-A	1 1605	ŏ
5990	CU3047		C1608JB1H103KT-A	9097	a
9990	CU8042	Chip C	C2012J8fC104KT-A	1607	ð
C667	CU8042		C2012JB1C104KT-A	1 L608	ō
C668	CU3047	Chip C.	C1608JB1H103KT-A	L609	-
6990	CU3047	Chip C.	C1608JB1H103KT-A	L610	5
0293	CU3047		C1608JB1H103KT-A	1191	ö
C671	cu3n23	Chip C.	C1608CH1H101JT-A	0607	Σ.
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2	Parts No.	Description	Parts Name
<u>.</u>			
c672	cu3059	Chip C.	C1608JF1E104ZT-A
ce73	CU3059	Chip C.	C1608JF1E104ZT-A
CN608	UE0071	Connector	P122A05M
CN609	UE0226	Connector	B28-PH-K-S
CP601	UE0047	Round Pin	R9X10
CP602	UE0047	Round Pin	R9x10
CP603	UE0047	Round Pin	R9X10
CP604	UE0047	Round Pin	R9X10
CP605	UE0047	Round Pin	R9X10
CP606	UE0047	Round Pin	R9x10
CP607	UE0047	Round Pin	R9X10
CP608	UE0047	Round Pin	R9X10
CP609	UE0047	Round Pin	R9X10
CP610	UE0047	Round Pin	R9x10
CP611	UE3047	Round Pin	R9X10
1090	x00263	Diode	MA27-B
D602	XD0039	Drode	RLS4152 TE-11
9090	xD0039	Diode	RLS4152 TE-11
2090	xD0265	Diode	SG5LR
8090	XD0231	Diode	DAP202U T106
6090	xD0039	Drode	RLS4152 TE-11
0190	xD0039	Diode	RLS4152 TE-11
1190	XD0039	Diode	RLS4152 TE-11
2190	XD0039	Drode	RLS4152 TE-11
FB601	080037	Ferrite Boads	ZBF253D-00
FB602	080037	Ferrite Beads	ZBF253D-00
FB603	080037	Ferrite Beads	ZBF253D-00
FB604	0B0037	Ferrite Beads	ZBF253D-00
FB605	080037	Ferrite Beads	ZBF253D-00
FB606	0B0038	Ferrite Beads	EXCELSA39
FB607	080008	Ferrite Beads	HF30ACB201209-T
10901	XA0224	2	NJM2904M-T1
1090	0200Cn	Jack	JPJ2545-01-510
7090	0200rn	Jack	JPJ2545-01-510
L601	000044	Chip L.	NL322522T-2R7J
L602	QR0014A	Coil	Transformer QR0014A
L603	000039	Chip L	NL322522T-1R0J
L604	000039	Chip L.	NL322522T-1R0J
L605	000048	Chip L	NL322522T-100J
9097	0R0012	Coil	Troida! Core 0R0012
L607	OR0015	Coil	Transformer QR0015
R097	OR0015	- ioS	Transformer 0R0015
6097	GR0012	Soil	Troidal Core QR0012
L610	QR0016	Corl	Transformer OR0016
1197	QR0012	Coil	Troidal Core QR0012
0507	XU0176	Transistor	11N2273-TX

No.	Parts No.	Description	Parts Name
0090	xu3176	fransistor	UN2223-TX
6090	XU0078	Transistor	UN521L-TX
0190	XU0078	Transistor	UN521L-TX
R601	RK 3001	Ch.p.R	ERJ3GSY0R00V
R602	RK 3028	Chip R.	ERJ3GSYJ151V
R603	RK 0028	Chip R.	ERJ6GEYJ471Y
R604	PK 0020	Chip R.	ERJ6GEYJ151V
R606	RK4083	Chip R	ERJ14YJ5R6H
R607	RK4023	Chip R.	ERJ12YJ560H
R608	RK0028	Chip R	ERJ6GEYJ471V
R609	RK 4030	Chip R.	ERJ12YJ221H
R610	RK4030	Chip R.	ERJ12YJ221H
R611	RK 4055	Chip R	ERJ-14YJ470H
R612	RK 4055	Chip R.	ERJ-14YJ470H
R613	RK 4030	Chip R.	ERJ12YJ221H
R614	RK 0005	Chrp R.	ERJ6GEYJ220V
R615	RK4014	Chip R.	ERJ12YJ100V
R616	RK4014	Chip R.	ERJ12YJ100V
R617	RD3007	Resistor	ERX1SJ3R3
R618	RD3007	Resistor	ERX1SJ3R3
R619	RD3007	Resistor	ERX15J3R3
R620	RD3007	Resistor	ERX1SJ3R3
R624	RK4014	Chip R.	ERJ12YJ100V
R625	RK 4014	Chip R	ERJ12YJ100V
R629	RE 00 17	Cement R.	ERX3SJ4R7
R630	RK 0039	Chip R.	ERJ6GEYJ222V
R631	PK 0039	Chip R.	ERJ6GEYJ222V
R632	RK 0005	Chip R	ERJ6GEYJ220V
R633	RK 3026	Chip R.	ERJ3GSYJ101V
R634	RX3026	Chip R.	ERJ3GSYJ101V
R635	FX 3026	Chip R.	ERJ3GSYJ101V
R635	RK0028	Chip R.	ERJ6GEYJ471V
R637	RX3058	Chip R.	ERJ3GSYJ473V
R638	RK3026	Chip R.	ERJ3GSYJ101V
R639	RX 6024	Chrp R.	ERJ1WYJ680H
R640	PK 6020	Chip R.	ERJ1WYJ330H
R641	FK3070	Chip R.	ERJ3GSYJ474V
R642	PK 3050	Chip R	ERJ3GSYJ103V
R643	FK 3054	Chip R	ERJ3GSYJ223V
R644	PK 3050	Chip R.	ERJ3GSYJ103V
R645	PK3053	Chip R.	ERJ3GSYJ183V
R646	PK 3056	Chip R.	ERJ3GSYJ333V
R647	RK3048		ERJ3GSYJ682V
R648	RK3052	Chrp R.	ERJ3GSYJ153V
R649	RK3044		ERJ3GSYJ332V
R650	FK 3038	Chip R.	ERJ3GSYJ102V

į	Parts No.	Description	Parts Name
R651	PK 3001	Chip R.	ERJ3GSY0R00V
R653	RK3001	Chip R.	ERJ3GSY0R00V
R654	RK3026	Chip R.	ERJ3GSYJ101V
R655	RX 0008	Chip R.	ERJ6GEYJ330V
R656	RK3042	Chip R.	ERJ3GSYJ222V
R657	RK3046	Chrp R.	ERJ3GSYJ472V
R658	RK1107	Chip R.	ERJ8GEY1R00
R659	PK3035	Chip R.	ERJ3GSYJ561V
R660	RK3026	Chip R.	ERJ3GSYJ101V
R661	RX 3026	Chip R.	ERJ3GSYJ101V
RL601	900070	Relay	AG201344
RL602	UL0012	Relay	AJK3241
RL 603	0000Tn	Relay	AG201344
VR601	RH0164	Trim. Pot	EVND8AA03BE2
VR602	RH0165	Trim. Pot	EVND8AA03BE3
₩601	UX1081	Wire	PA- 1
₩602	UX1081	Wire	PA- 1
W604	UX1081	Wire	P.A. 1
w605	UX1082	Wire	PA 1
₩606	UX1083	Wire	PA- 2
W607	UX1084	# re	PA-FILTER 1
TT1001			Tube 0.7 1mm
11001			Tube 0.7 1mm
TT1001			Tube 0.7 1mm
111001			Tube 0.7 1mm
TT1001			Tube 0.7 1mm
UP0279		P. C. B	Transformer Board
UP0290B		P. C. B	Circuit Board B

C693 C C693 C C693 C C693 C C694 C C694 C C694 C C694 C C694 C C696 C C6	CU3047 CU3047 CU3047 CU3047 CU3047 CU3043 CU3033 CU3043 CU3043 CU3043 CU3043 CU3035	Chip C Ch	C1608-JBI H103KT-A C1608-JBI H103KT-A C1608-JBI H103KT-A C1608-JBI H103KT-A C1608-JBI H103KT-A H5J1332-01-040 JACK- 1 C1608-JBI H172KT-A C1608-JBI H472KT-A
C1008	CU3039	Chip C.	C1508JB1H222KT-A

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Ref. No.	Parts No.	Description	Parts Name	No .	Parts No.	Descriptio
C1009	CU3035	Chip C	C1608J81H102KT-A	01010	XD0230	Drode
C1010	CS0230	ChipTantalum	TMCMA1E105MTR	01011	XD0230	Drode
C1011	CU3059	Chip C	C1608JF1E104ZT-A	01016	XD0254	Drode
C1014	CU3017	Chip C.	C1608CH1H330JT-A	1010	XD0254	Diode
C1012	CU3017	Chip C.	C1608CH1H330JT-A	01018	09100X	Diode
C1016	CU3059	Chip C.	C1608JF1E104ZT-A	D1019	XD0254	Diode
C1017	CE0351	Electrolytic C.	16MV220HC	D1020	xD0230	Diode
C1018	CU3047	Chip C	C1608JB1H103KT-A	D1021	XD0230	Drode
C1019	CE0315	Electrolytic C	ECEV1CA470P	D1022	XD0254	Diode
C1020	CU3035	Chip C	C1608JB1H102KT-A	D1024	XD0230	Diode
C1021	190083	ChipTantalim	TMCSA1V224MTR	D1025	XD0230	Drode
C1022	CE0375	Electrolytic C.	16cv220BS	D1026	xD0230	Drode
C1023	cu3035	Chip C.	C1608JB1H102KTA	D1027	XD0230	Diode
C1024	CE0375	Electrolytic C.	16CV220BS	D1028	XD0230	Diode
C1025	cs0230	ChipTantalum	TMCMA1E105MTR	D1029	XD0230	Drode
C1026	CU3047	Chip C.	C1608JB1H103KT-A	01030	XD0230	Drode
C1027	CU3043	Chip C.	C1608JB1H472KT-A	101001	XA0296	2
C1028	CE0315	Electrolytic C.	ECEV1CA470P	101002	XA0347	2
C1029	cu3035	Chip C.	C1608JB1H102KT-A	101003	XA0239	21
C1030	cu3059	Chip C.	C1608JF1E104ZT-A	IC1004	XA0295	2
C1031	CU3047	Chip C.	C1608JB1H103KT-A	101005	XA0351	ల
C1032	CU3047	Chip C.	C1608JB1H103KT-A	101006	XA0393	2
C1033	CU3047	Chip C.	C1608JB1H103KT~A	101007	XA0338	2
C1034	CU3047	Chip C.	C1608JB1H103KT-A	101008	XA0075	2
C1035	CU3047	Chip C.	C1608J81H103KT-A	101009	XA0303	2
C1036	cu3035	Chip C.	. C1608J81H102XT-A	10017	0C0489	Chip L
C1037	CU3047	Chip C.	C1608JB1H103KT-A	LCD100	1 EL0027	697
C1038	CU3047	Chip C.	C1608JB1H103KT-A	PL1001		Lamp
C1039	cu3047	Chrp C.	C1608JB1H103KT-A	PL1002	EP0009	Lamp
C1040	cu3035	Chip C.	. C1608JB1H102KT-A	PL1003	EP0009	Lamp
C1041	cu3035	Chip C	C1608JB1H102KT-A	PL1004	EP0009	Lamp
C1042	CU3027	Chip C	C1608CH1H221JT-A	01001	XT0094	Transistor
C1043	cu3027	Chip C.	C1608CH1H221JT-A	01002	1900nx	Transistor
C1044	cu3035	Chip C.	C1608JB1H102KT~A	01003	XT0061	Transistor
C1045		Chip C.	C1608JB1H561KT-A	01004	XT0095	Transistor
CN1001		Connector	2357-0890	01002	XT0095	Transistor
CN1002		Connector	8128-ЕН	01006	XU0061	Transistor
CN1003		Connector	B138-ZR	01008	XU0051	Transistor
CN1004		Connector	. B48-ZR	01010	x00091	Transistor
D1002	xL0043	reo	CL-170R-CD-T	01011	XU0051	Transistor
D1003	xL0042	LED	CL-170G-CD-T	R1005	PK 3034	Chip R
D1004	xD0Z30	Diode	DAN202U T106	R1006	RK3034	Ch. p. R.
01005	xD0230	Diode	DAN202U T106	R1007	PK 3034	Chip R.

01010 X00230 Drode DAM202U 1106 01011 X00234 Drode 152355 TE-17 01011 X00234 Drode 152355 TE-17 01013 X00234 Drode 152355 TE-17 01014 X00234 Drode DAW202U 1106 01022 X00234 Drode DAW202U 1106 01023 Drode DAW202U 1106 01024 X00230 Drode DAW202U 1106 01025 X00230 Drode DAW202U 1106 01026 X00230 Drode DAW202U 1106 01027 X00230 Drode DAW202U 1106 01032 Drode DAW202U 1106 01033 LC CPU 1	Ref.	Parts No.	Description	Parts Name	 Ref.
XO0230 Drode ISS355 TE-XO0254 XO0254 Drode 152355 TE-XO0150 XO0230 Drode 152355 TE-XO0230 XO0230 Drode DANZ02U TI XO0231 Drode DANZ02U TI XO0232 Drode DANZ02U TI XA0233 IC LCT4030BE XA0234 IC LCT4030BE XA0233 IC	01010	XD0230	Drode		 R1011
XOD254 Diode ISS35 TE-XOD16 XOD165 Diode ISS35 TE-XOD230 XOD230 Diode DAV202U TI XOD230 LC MCI40TABE XAO230 LC LC LC XAO331 LC LAM20TI TI XAO332 LC	01011	XD0230	Drode		 R1012
XOD254 Diode ISS35 TE-XOD16D XOD250 Diode DIX 325 TE-XOD23D XOD230 Diode DANZDZU TI XOD230 LC MC10028ETI XOD230 LC MC10028ETI XOD230 LC LCT XOD230 LC LCT XOD230 LC LCT XOD231 LC LAMZDZU TI	01016	XD0254	Drode		 R1013
XOD165 Diode DTA4.3B TT XOD230 Diode DAV2D2U TI XOD230 LC MC1018E XAD231 LC MC1018E XAD232 LC MC1024BE XAD331 LC LC1024BE XAD332 LC LC1024BE XAD333 LC LC1024BE	1010	XD0254	Diode		 R1014
X00234 Diode DANZ02U TI X00230 LC MCI 4001BE X00230 LC MCI 4002BE X00331 LC LCT 4002BE X00332 LC LCT 4002BE X00333 LC LCT 4002BE EL0003 Lamp LCD 4007BE EL0003 Lamp LCD 4007BE	01018	09100X	Diode		R1015
XOD230 Diode DANZOZU TI XOD230 Diode DANZOZU TI XOD230 Diode CAMZOZU TI XOD230 Diode CAMZOZU TI XOD230 Diode DANZOZU TI XOD230 LO MCIADZABE XAD231 LC MCIADZABE XAD232 LC MCIADZABE XAD233 LC LCHGABE XAD233 LC LCHGABE XAD233 LC LCHGABE XAD233 LC LCHGABE XAD234 LC LCHGABE <	D1019	XD0254	Diode	1SS355 TE-17	R1016
X00230 Diode DANZ02U TI X00230 Diode SANZ02U TI X00230 Diode CAMZ02U TI X00230 Diode DANZ02U TI X00230 Diode DA	D1020	XD0230	Diode		 R1017
XDD254 Diode ISS355 TE-XDD230 XDD230 Diode DAM2D2U TI XDD231 Diode DAM2D2U TI XDD232 Diode DAM2D2U TI XDD233 LC MC14024BF XAD234 LC MC14024BF XAD235 LC MC14024BF XAD236 LC LC14024BF XAD237 LC LC16024BF XAD238 LC LC16024BF XAD239 LC LC16024BF XAD239 LC LC16024BF XAD239 LC LC2027BE EL0027 LC2027BE LC2027BE <t< td=""><td>D1021</td><td>xD0230</td><td>Drode</td><td></td><td> R1018</td></t<>	D1021	xD0230	Drode		 R1018
X00230 Diode DAM202U TI X00230 Diode DAM202U TI X00230 Diode DAM202U TI X00230 Diode DAM202U TI X00230 Diode DAM202U TI X00230 Diode DAM202U TI X00230 Diode DAM202U TI X00230 Diode DAM202U TI X00230 Diode DAM202U TI X00230 Diode DAM202U TI X00230 IC MC14018E X00230 IC MC14024BE X00331 IC MC14024BE X00332 IC LC14024BE X00333 IC LC14022BE X00048 IC LC14022BE X00048 IC LCD X10054 <td>D1022</td> <td>XD0254</td> <td>Diode</td> <td>1SS355 TE-17</td> <td> R1019</td>	D1022	XD0254	Diode	1SS355 TE-17	 R1019
XODG30 Diode DAM202U TI XODG30 Diode DAM202U TI XODG30 Diode DAM202U TI XODG30 Diode DAM202U TI XODG30 Diode DAM202U TI XODG30 Diode DAM202U TI XODG30 Diode DAM202U TI XODG30 Diode DAM202U TI XODG30 IC MCI 4071BF XADG36 IC MCI 4071BF XADG39 IC MCI 4071BF XADG39 IC MCI 4071BF XADG39 IC MCI 4071BF XADG39 IC LAGG08BF XADG39 IC LAGG16BF XADG39 IC LAGG16BF XADG39 IC LAGG16BF XADG39 IC LAGG16BF XADG39 IC LAGG17TI XADG39 IC LAGG17TI XADG39 IC LAGG17TI XTO034 IT-ans stor SCG40BITIO XTO0	D1024	xD0230	Diode		 R1020
XOD230 Diode DAM202U TI XOD230 Diode DAM202U TI XOD230 Diode DAM202U TI XOD230 Diode DAM202U TI XOD230 Diode DAM202U TI XOD231 Diode DAM202U TI XOD231 C TO 403BF XOD232 C MCI 4071BF XOD233 IC BU4001BF XAD235 IC MCI 4074BF XAD235 IC CPU DX-70 XAD235 IC LATBERSE XAD333 IC CPU DX-70 XAD335 IC LATBERSE XAD338 IC LATBERSE XAD339 IC LATBERSE XAD339 IC LATBERS XAD339 IC LATBERS XAD339 IC LATBERS XAD340 IT Fans stor ZSC4081110 XT0054 IT Fans stor ZSC4081110 XT0055 IT Fans stor ZSC4081110 <t< td=""><td>D1025</td><td>XD0230</td><td>Drode</td><td></td><td> R1021</td></t<>	D1025	XD0230	Drode		 R1021
XD0230 Diode DAN202U T1 XD0230 Diode DAN202U T1 XD0230 Diode DAN202U T1 XD0230 Diode DAN202U T1 XA0236 IC MCI4071BF XA0239 IC BU4001BF XA0239 IC MCI4074BF XA0239 IC MCI4074BF XA0239 IC MCI4074BF XA0333 IC CPU DX-10 XA0333 IC CPU DX-10 XA0333 IC LAM202BH XA033 IC LAM202BH XA033 IC LAM202BH XA034 IC LAM202BH XA035 IC LAM202BH XA0031 IT-ansistor LAM202H-IT-X XU0031 IT-ans	D1026	xD0230	Drode		 R1022
XDD230 Diode DAN202U TI XDD230 Diode DAN202U TI XDD230 Diode DAN202U TI XAD236 IC MCI4071BF XAD237 IC BU4001FF XAD239 IC MCI4024BF XAD239 IC MCI4024BF XAD239 IC MCI4024BF XAD239 IC CPU DX-10 XAD333 IC CPU DX-10 XAD333 IC LAT8108LM XAD333 IC LAM202DH XAD333 IC LAM202DH XAD333 IC LAM202DH XAD333 IC LAM202DH EP0009 Lamp B0031-2080 EP0009 Lamp B0031-2080 EP0009 Lamp B0031-2080 XT0004 Trans stor ZSC4081110 XT0005 Trans stor ZSC408110 XT0006 Trans stor XC6KM XT0006 Trans stor ZSC408110 <t< td=""><td>D1027</td><td>XD0230</td><td>Diode</td><td></td><td> R1023</td></t<>	D1027	XD0230	Diode		 R1023
XD0230 Diode DAN202U T1 XD0230 Diode DAN202U T1 XA0236 IC MCI4071BF XA0239 IC BU4001BF XA0239 IC ACI406BF XA0239 IC ACI406BF XA0331 IC CPU DX-70 XA0333 IC CPU DX-70 XA0333 IC CPU DX-70 XA0333 IC LC DX70 EP0007 Lamp B0031-2080 EP0009 Lamp B0031-2080 XT0031 Transistor UNSTI-TX XT0051 Transistor UNSTI-TX XU0051 Transistor UNSTI-TX XU0061 Transistor UNSTI-TX XU0061 Transistor UNSTI-TX XU0061 Transistor UNSTI-TX	D1028	XD0230	Diode		 R1024
XOD230 Diode DAN202U T1 XOD36 IC MCI4071BF XOD347 IC IC4030BF XAD259 IC BU4001BF XAD255 IC AC161BF XAD331 IC CPU DX-70 XAD332 IC CPU DX-70 XAD333 IC CPU DX-70 XAD333 IC LATBLR0BLN XAD33 IC LATBLR0BLN XAD34 Lamp B0031-2080 FP0009 Lamp B0031-2080 XT0051 Trans stor ZSC40BTT0 XT0051 Trans stor ZSC40BTT0 XT0051 Trans stor XC6KN XT0052 Trans stor ZSC40BTT0 XX00	D1029	XD0230	Drode	DAN202U T106	R1025
XA0236 IC MCI4071BF XA0239 IC 1C4030BF XA0239 IC 24LC16B XA0331 IC 24LC16B XA0333 IC CPU DX-70 XA0338 IC INARRADBUA XA0339 IC INARRADBUA XA0338 IC INARRADBUA XA0303 IC INARRADBUA XA0304 Inarb B0031-Z080 FP0009 Lamp B0031-Z080 XT00401 Inarb S264081110 XT0054 Inarb S26408110 XT0055 Inarb S26408110 XT0061 Inarb S26408110 XT0062	D1030		Drode	DAN202U T106	 R1026
XA0347 IC TC4030BF XA0239 IC BU4001BF XA0331 IC ALC16B XA0333 IC CPU DX-70 XA0333 IC IV JRL05B-I XA0338 IC IV JRL05B-I XA0075 IC IV JRL05B-I XA0303 IC LC DX70 EP0009 Lamp B0031-2080 XT0034 Transistor 284157110 XT00401 Transistor 2854081110 XT0035 Transistor 28513210 XT00061 Transistor 28513210 XT00361 Transistor 2852408110 XT0037 Transistor 285287447 RX3034 Chip R EPJ3GSYJ47 RX3058 Chip R ERJ3GSYJ47 </td <td>10013</td> <td></td> <td>2</td> <td>MC14071BF</td> <td> R1027</td>	10013		2	MC14071BF	 R1027
XA0299 IC BU4001BF XA033 IC MC14024BF XA0333 IC PU DK-70 XA0338 IC PU DK-70 XA0338 IC IZBRD6B-1 XA0339 IC IZBRD6B-1 XA0303 IC IZBRD8D-1 CC0439 Chip L LOHAN2100 EP0009 Lamp B0031-2080 XT0034 Transistor ZS6150T10 XT0045 Transistor ZS6132T10 XT0045 Transistor ZS6132T10 XT0045 Transistor UM5211-TX XU0061 Transistor EN	IC1002		2	TC4030BF	R1028
XA0235 IC MCI4024BF XA0333 IC 24LCIGB XA0333 IC PP Dx-70 XA0338 IC IZBRR08B-I XA0338 IC IZBRR08LM XA0303 IC CD732LM CC0439 Chrip L L0H4N22100 EP0009 Lamp B0031-2080 XT0034 Transistor 28A157110 XT0045 Transistor 28A132T10 XT0045 Transistor 28C4081110 XT0045 Transistor UM5211-TX XU0061 Transistor	101003		21	BU40018F	R1029
XA0331 IC 24LCI6B XA0333 IC CPU DK-70 XA0338 IC ITBLR05B-T XA0333 IC ITBLR05B-T XA0303 IC ICTS821M COCQ439 Chup L LOHAN2210D EP0009 Lamp B0031-2080 XT0034 Transistor ZSC405110 XT00405 Transistor ZSC4081110 XT00405 Transistor UMS211-TX XU0061 Transistor ERJ3GSYJ47 RX3034 Chip R ERJ3GSYJ47 RX3058 Chip R	101004		2	MC14024BF	 R1030
XA0333 IC CPU DX-70 XA0338 IC T/BLR05B-T XA0303 IC IT/BLR05B-T XA0303 IC IC/SB21M COC0499 Chrip IL LOH4N221J0 EP0009 Lamp B0031-2080 XT0034 Transistor ZS0415711 XT00405 Transistor ZS04081110 XT0035 Transistor UMS211-TX XU0061 Transistor UMS211-TX XU0062 Transistor UMS211-TX XU0063 Transistor UMS211-TX XU0064 <th< td=""><td>101005</td><td></td><td>ပ္</td><td>24LC16B</td><td> R1031</td></th<>	101005		ပ္	24LC16B	 R1031
XA0338 IC T/RLR05B-T XA0075 IC I/RR12L08UA XA0303 IC ICT582IM 0C0499 Chip L LOH4N271J0 EP0009 Lamp B0031-2080 EP0009 Lamp B0031-2080 EP0009 Lamp B0031-2080 EP0009 Lamp B0031-2080 X10034 Transistor 2841576110 X10051 Transistor 28413710 X10051 Transistor 286113710 X10051 Transistor 286081110 X10051 Transistor 286081110 X10051 Transistor 286208110 X10051 Transistor 286208110 X10051 Transistor 286213210 X10051 Transistor 286213117 X20051 Transistor 286213117 X20051 Transistor 286213117 X20051 Transistor 286213 KX3034 Chip R ERJ3GSYJ47 RX3058	101006		2	CPU DX-70	 R1032
XA0075 IC N.M.T8LOBUA XA0303 IC LC75821W 0C0499 Chip L LOH4N221J0 EP0009 Lamp B0031-2080 EP0009 Lamp B0031-2080 EP0009 Lamp B0031-2080 EP0009 Lamp B0031-2080 XT0034 Transistor 2841576110 XT004 Transistor 284157117 XT004 Transistor 2861132110 XT0095 Transistor 28C4081110 XT0095 Transistor UM5211-TX XU0051 Transistor UM5211-TX XU0051 Transistor UM5211-TX XU0051 Transistor UM5211-TX XU0061 Transistor UM5211-TX XU0061 Transistor UM5211-TX XU0061 Transistor UM5211-TX XU0062 Transistor UM5211-TX XU0063 Transistor UM5211-TX XW3034 Chip R ERJ3GSYJ47 RX305	1C1007		2	L78LR05B-TL/TR	R1033
CC0489 Chip L	101008		2		 R1034
EL0027 LCD EP0009 Lamp EP0009 Lamp EP0009 Lamp EP0009 Lamp EP0009 Lamp X70034 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70096 Transi	101009		2	LC75821W	 R1035
EL0027 LCD EP0099 Lamp EP0099 Lamp EP0099 Lamp EP0099 Lamp X70094 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70096	1001		Chip L.	L0H4N221J04	R1036
EP0009 Lamp EP0009 Lamp EP0009 Lamp X70034 Transistor X70035 Transistor X70095 Transistor X70096 Transistor X70097 Transistor X70096 Trans	LCD100		1,00	02X0 001	R1037
EP0099 Lamp EP0099 Lamp X70034 Transistor X70035 Transistor X70095 Transistor X70096	PL1001		Lamp	B0031-20805A	R1038
EP0009 Lamp EP0009 Lamp X70034 Transistor X70051 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70095 Transistor X70091 Transistor X70091 Transistor X70091 Transistor X70091 Transistor X70093 Transistor X70093 Transistor X70096 Transistor X70096 Transistor X70096 Transistor X70096 Transistor X70098 Transistor X70099 Transistor X7009 PL1002		Lamp	BQ031-20805A	 R1039	
### FP0099 Lamp X70034 Transistor X70051 Transistor X70095 Transistor X70095 Transistor X70061 Transistor X7	PL1003		Lamp	B0031-20805A	R1040
XY0094 Transistor XY0096 Transistor XY006 Transistor XY0095 Transistor XY0095 Transistor XY006 Transistor XY0	PL1004		Lamp	BQ031-20805A	 R1041
XU0061 Transistor XT0063 Transistor XT0095 Transistor XT0096 Transistor XU0061 Transistor XU0061 Transistor XU0061 Transistor XU0061 Transistor RX3034 Chip R RX3034 Chip R RX3058 Chip R RX3058 Chip R RX3062 Chip R	01001	XT0094	Transistor	2SA1576T106R	 R1042
Mars Mars	01002	XU0051	Transistor	UN5211-TX	R1043
X10995 Transistor X10095 Transistor X10096 Transistor X10061 Transistor	01003	xT0061	Transistor	258113211000	 R1044
XU0055 Transistor XU0051 Transistor XU0051 Transistor XU0051 Transistor XU0051 Transistor XU0051 Transistor RX3034 Chip R RX3034 Chip R RX3034 Chip R RX3058 Chip R RX3058 Chip R RX3058 Chip R	40010	X10095	Iransistor	2SC4081T106R	 R1045
XU0061 Transistor XU0061 Transistor XU0061 Transistor XU0061 Transistor RX3034 Chip R RX3034 Chip R RX3034 Chip R RX3036 Chip R RX3058 Chip R RX3058 Chip R	coolo	CE0017	Iransistor	2SC4081 1106H	R1046
XU0051 Transistor XU0051 Transistor XU0051 Transistor RX3034 Chip R RX3034 Chip R RX3034 Chip R RX3058 Chip R RX3058 Chip R.	01006	XU0061	Transistor	UN5211-TX	 R1047
XU0061 Transistor XU0061 Transistor RK3034 Chip R RK3034 Chip R RK3058 Chip R RK3058 Chip R RK3058 Chip R	01008	x00091	Transistor	UN5211-TX	R1048
XU0061 Transistor RK3034 Chip R RK3034 Chip R RK3058 Chip R RK3058 Chip R RK3062 Chip R	01010	x00061	Transistor	UN5211-TX	 R1049
RK3034 Chip R RK3034 Chip R RK3036 Chip R RK3058 Chip R RK3058 Chip R.	01011	XU0051	Transistor	UN5211-TX	 R1050
RX3034 Chip R RX3034 Chip R RX3058 Chip R. RX3058 hip R.	R1005	PK 3034	Chip R	ERJ3GSYJ471V	 R1051
RX 3034 Chip R. RX 3058 Chip R. RX 3058 hip R. RX 3062 Chip R.	R1006	PK 3034	Chip R.	ERJ3GSYJ471V	 R1052
RK3058 Chip R. RK3058 hip R. RK3062 Chip R	R1007	PK 3034	Chip R.	ERJ3GSYJ471V	R1053
RK3062 Chip R	R1008	RK 3058		ERJ3GSYJ473V	 R1054
RK3062 Chip R	R1009	RK3058	hip R.	ERJ3GSYJ473V	 R1055
-	R1010	RK 3062	Chip R	ERJ3GSYJ104V	R1056

ERJ3GSY0R00V 70T

ERJ3GSY0R00V

ERJ3GSY0R00V ERJ3GSY0R00V ERJ3GSYJ104V ERJ3GSYJ104V ERJ3GSYJ104V ERJ3GSYJ104V ERJ3GSYJ103V

Chip R

Chip R. Chip R Ch. P. R Chip R. Chip R. Chip R. Switch Switch Switch Switch Switch Sw tch

R1093 R1095

R1094

Chip R

JPM1110-0101

UU0020 UU00020

EC11B15204 EC2485080

RK3050

R1098

R1096 R1097

> ERJ3GSYJ103V ERJ3GSYJ332V ERJ3GSYJ473V

UR0009 UR0010

\$1001

Switch

S1002 SW1001

ERJ3GSYJ473V ERJ3GSYJ102V ERJ3GSYJ103V ERJ3GSYJ103V ERJ3GSYJ103V ERJ3GSYJ103V

RK3038

JPW1110-0101

JPM1110-0101

UU00020

SW1003

SW1002

UU0020 UU0020

SW1004 SW1005 SW1006 SW1007 SW1008

ERJ3GSYJ103V

Chip R Chip R. Chip R. Chip R.

> RK3050 RK3050

Chip R.

ERJ3GSYJ102V ERJ3GSYJ562V

RK3038 RK3047 RK3046

Chip R. Chip R. Chip R.

JPM1110-0101

JPM1110-0101 JPM1110-0101 JPM1110-0101

> Switch Switch Switch

UU00020

UU0020 UU0020 JPM1110-0101

Switch Switch Switch

UU0020 UU0020 UU0020 020000

SW1009

ERJ3GSYJ472V

ERJ3GSYJ103V ERJ3GSYJ471V

RK3050 RK3038 RK3034

SW1010

SW1011

ERJ3GSYJ102V

JPM1110-0101

JPM1110-0101

Switch

SW1012

JPM1110-0101 JPN1110-0101

ERJ3GSYJ471V

ERJ3GSYJ471V

ERJ3GSYJ471V

Chip R. Chip R Chip R Chip R. Chip R Chip R

Chip R.

R1072

R1073 R1074

RK3034 RX3034 RK3034 RK3034 RK3034

R1071

Chip R Chip R.

Chip R. Chip R

Chip R.

RK3074 RK3050 RK3050 RK3058 RK3050 RK3050 RK3034 RK0130 RK3046 RK3030 RK3038 RK3050 RK3050 RK3050 RK3050 RK3050 RK3050 RK3050 RK3044 RK3058 RX3058 RK3050 RK3050 RK3050

RK3054

R1070

R1069

ERJ3GSYJ221V ERJ36SYJ473V

RK3030 RK3058

R1075 R1076 R1077 R1079

Chip R

RK3034

Chip R Chip R. Chip R

ERJ3GSYJ105V ERJ3GSY0R00V

RK3074 RK3001 RK3001 RK3001 RK3001 RK3001 RK3062 RK3062 RK3062 RK3062

Chip R

R1080

R1083

ERJ3GSYJ103V

Chip R Chip R Chip R Chip R. Chip R. Chrp. R. Chip R. Chip R Chip R Chip R.

Chip R.

Chip R. Chip R

Chip R.

R1081 R1087

Ch.rp. R. Chip R.

	Parts Name	DAN202U T106	DAN202U T106	1SS355 TE-17	1SS355 TE-17	DTZ4. 38 TT11	1SS355 TE-17	DAN202U T106	DAN202U T106	1SS355 TE-17	DAN202U T106	DAN202U T106	DAN202U T106	DAN202U T106	DAN202U T106	DANZOZU T106	DAN202U T106	MC140718F	TC4030BF	BU40018F	MC14024BF	24LC16B	CPU DX-70	L78LR05B-1L/TR	NJM78L08UA-TE1	LC75821W	L0H4N221J04	LCD DX70	B0031-20805A	B0031-20805A	B0031-20805A	B0031-20805A	2SA1576T106R	UN5211-TX	25B1132T1000	2SC4081T106R	2SC4081T106R	UN5211-TX	UN5211-TX	UN5211-TX	UN5211-TX	ERJ3GSYJ471V	ERJ3GSYJ471V	ERJ3GSYJ471V	ERJ3GSYJ473V	ERJ3GSYJ473V	ERJ3GSYJ104V
	Description	Drode	Drode	Drode	Diode	Drode	Diade	Diode	Drode	Diode	Diode	Drode	Drode	Diode	Diode	Drode	Drode	21	2	21	2	2	2	2	2	2	Chip L	100	Lamp	Lamp	Lamp	Lamp	Transistor	Transistor	Transistor	Transistor	Transistor	Transistor	Transistor	Transistor	Transistor	Chip R	Chip R.	Chip R.	ران ۳. هاري	hip R.	Chip R
	Parts No.	XD0230	XD0230	XD0254	XD0254	09100X	XD0254	XD0230	XD0230	XD0254	XD0230	XD0230	xD0230	XD0230	XD0230	XD0230	XD0230	XA0296	XA0347	XA0299	XA0295	XA0351	XA0393	XA0338	XA0075	XA0303	QC0489	EL 0027	EP0009	EP0009	EP0009	EP0009	XT0094	XU0051	xT0061	XT0095	XT0095	XU0061	x00051	x00061	XU0051	PK3034	PK 3034	RK3034	RK3058	RK3058	RK3062
Ref	S N	01010	01011	01010	71010	51013	D1019	D1020	D1021	D1022	D1024	D1025	D1026	D1027	D1028	D1029	D1030	101001	IC1002	101003	101004	101005	101006	1C1097	1C1008	1C1009	10017	LCD100	PL1001	PL1002	PL1003	PL1004	01001	01005	01003	01004	01002	01006	01008	01010	01011	R1005	R1006	R1007	R1008	R1009	R1010
	Parts Name	C1608JB1H102KT-A	TMCMA1E105MTR	C1608JF1E104ZT-A	C1608CH1H330JT-A	C1608CH1H330JT-A	C1608JF1E104ZT-A	16MV220HC	C1608JB1H103KT-A	ECEV1CA470P	C1608JB1H102KT-A	TMCSA1V224MTR	16cv220BS	C1608JB1H10ZKT-A	16CV220BS	TMCMA1E105MTR	C1608JB1H103KT-A	C1608JB1H472KT-A	ECEV1CA470P	C1608JB1H102KT-A	C1608JF1E104ZT-A	C1608JB1H103KT-A	C1608JB1H103KT-A	C1608JB1H103KT~A	C1608JB1H103KT~A	C1608JB1H103KT~A	C1608JB1H102KT-A	C1608JB1H103KT-A	C1608JB1H103KT-A	C1608JB1H103KT-A	C1608JB1H102KT-A	C1608JB1H102KT-A	C1608CHIH221JT-A	C1608CH1H221JT-A	C1608JB1H102KT~A	C1608JB1H561KT-A	2357-0890	В128-ЕН	B13B-ZR	B48-ZR	CL-170R-CD-T	CL-170G-CD-T	DAN202U T106	DAN202U T106	DAN202U T106	1SS355 TE-17	DAN202U T106
	Description	Chip C	ChipTantalum	Chip C	Chip C.	Chip C.	Chip C.	Electrolytic C.	Chip C	Electrolytic C	Chip C	ChipTantalum	Electrolytic C.	Chip C.	Electrolytic C.	ChipTantalum	Chip C.	Chip C.	Electrolytic C.	Chip C.	Chip C.	Chip C.	Chip C.	Chip C.	Chip C.	Chip C.	Chip C.	Chip C.	Chip C.	Chrp C.	Chip C.	Chip C	Chip C	Chip C.	Chip C.	Chip C.	Connector	Connector	Connector	Connector	red	LED	Diode	Diode	Diode	Diode	Diode
\vdash	Parts No.	CU3035	CS0230	CU3059	CU3017	CU3017	CU3059	CE0351	CU3047	CE0315	CU3035	190083	CE0375	cu3035	CE0375	cS0230	CU3047	CU3043	CE0315	cu3035	cu3059	CU3047	CU3047	CU3047	CU3047	CU3047	CU3035	CU3047	CU3047	CU3047	cu3035	CU3035	CU3027	cu3027	CU3035	cn3032	UE0222	UE0265	UE0174	UE0165	xL0043	XL0042	XD0230	XD0230	XD0230	XD0254	XD9230
Ref.	<u>0</u>	C1000	01010	C1011	C1014	C1015	C1016	C1017	C1018	C1019	C1020	C1021	C1022	C1023	C1024	C1025	C1026	C1027	C1028	C1029	C1030	C1031	C1032	C1033	C1034	C1035	C1036	C1037	C1038	C1039	C1040	C1041	C1042	C1043	C1044	C1045	CN1001	CN1002	CN1003	CN1004	D1002	01003	51004	01002	01007	01008	01006

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FRONT

Parts Name

Description

Parts No.

Parts Name

Description

Parts No.

RK3034 RK3038 RK3034 RK3026 RK3030

R1057 R1058 R1060 R1061

ERJ36SYJ224V ERJ3GSYJ105V

RK3066 RK3062 RK3074 RK3052 RK3054 RK3062

ERJ3GSYJ471V ERJ3GSYJ102V

R1059

ERJ3GSYJ471V

ERJ3GSYJ101V ERJ3GSYJ221V

Chip R. Chip R ERJ3GSYJ221V ERJ36SYJ103V

ERJ3GSYJ222V

Chip R.

RK3042 RK3030 RK3050

R1062 R1063 R1064 R1065 R1066

ERJ3GSYJ223V ERJ3GSYJ104V ERJ3GSYJ224V ERJ3GSYJ104V ERJ3GSYJ153V

ERJ3GSYJ153V

Chip R.

Chip R Chip R. Chip R.

Chip R. Chip R Chip R.

RK3066 RK3062 RK3074 RK3052 RX3050

ERJ3GSYJ471V ERJ3GSYJ471V ERJ3GSYJ471V ERJ3GSYJ471V ERJ3GSYJ471V ERJ3GSYJ471V

ERJ3GSYJ471V

Chip R Chip R. Chip R. Chip R. Chip R.

R1068

ERJ36SYJ223V ERJ3GSYJ105V ERJ36SYJ103V ERJ36SYJ103V ERJ3GSYJ473V ERJ3GSYJ103V ERJ3GSYJ103V ERJ3GSYJ471V ERJ3GSYJ471V ERJ6GEYJ4R7V ERJ3GSYJ472V ERJ3GSYJ221V ERJ3GSYJ102V ERJ3GSYJ103V ERJ3GSYJ103V ERJ3GSYJ103V ERJ3GSYJ103V ERJ3GSYJ103V

R1067

ERJ3GSYJ102V

RK3038 RK3034 RK3034 RK3034 RK3034 RK3034

ERJ3GSYJ105V ERJ36SYJ103V

> Chip R. Chip R. Chip R.

FRONT / VOL / Speaker / Other / Mechanical Parts

Z CZ		eaker / Other / N	/ VOL / Speaker / Other / Mechanical Parts				
Ref.	Parts No.	Description	Parts Name	Net.	Parts No.	Description	Par
SW1013	000000	Switch	JPM1110-0101	KT0046		Transistor	2SC1972
SW1014	070000	Switch	JPM1110-0101	KT0101		Transistor	2SC1971
W1001	RD0108	Resistor	JPW01 R-01	кт0127		Transistor	2SC3419-Y
₩1002	RD0108	Resistor	JPW01 R-01	XT0128		Transistor	2SC2904
W1003	RD0108	Resistor	JP#01 R-01	YZ0001			Silicon Gr
X1001	XB0019	Ctystal	CSACS8. 000MT				
090			LCD Light			Mechanical Parts	Parts
FG0192			LCD Rubber Connector	AA0007			Screw M2
FG0192		-	LCD Rubber Connector	AA0024			Screw M3
FG0192			LCD Rubber Connector	AA0050			Screw 26
FG0192			LCD Rubber Connector	AA0057			Screw M2
FW0105A			LCD Holder	AA0059			Screw M2
TL0014			LCD Filter	AA0060			
TL0015			LCD Filter	AA0061			Screw M2
111002			Tube 1.0 139	AD0005			
1111002			Tube 1.0 139	AF0005			Screw M2
TT1002			Tube 1.0 139	AJ0015			Screw 2.
TT1002			Tube 1.0 139	AJ0017	-		Screw 2.
TZ0028			VOL Spacer	AJ0029			Screw 3+
UP02878	P. C. B		FRONT Circuit Board B	AND012			Dia! Nut
				AP0022			Screw 2.
		VOL		AZ0031			Washer
C1001	CU3047	Chip C.	C1608JB1H103KT~A	FF0015	-	_	Light Shie
CN1005	UE0223	Connector	53263-0890	FF0031			Cloth 7#30
01001	XD0254	Diode	1SS355 TE-17	FF0032			Pad
R1001	RK3057	Chip R	ERJ3GSYJ393V	FG0147			Rubber
R1002	RK 3029	Chip R.	ERJ3GSYJ181V	FG0197			SP Cushion
R1003	RK3053	Chip R	ERJ3GSYJ183V	FG0206			TONE UNIT
R1004	RK3041	Chip R.	ERJ3GSYJ182V	FM0076			IC Spring
VR1001	RV0027	Trim Pot	RK972210(10KBC)	FM0083			Washer
VR1002	RV0022	Trim. Pot	RK972210(10KB#2)	FW0102			IC Spring
		- And S		FIN0103			SP Angle
		appade		FM0104			Fan Cover
SP1	ES0013	Speaker	VS-66-Y0811-2.0W	FW0106			FRONT Ang
£3	UX1047	<u>ء</u>	Harness DR130	F1M0107			FRONT Angl
		1		FIN0108			Connecter
		Other		FP0004			Bind Wire
F601	EF0011	Fuse	FGM8125V-5A	K#0195			Shassis Ca
FH601	UH0014	Fuse holder	PFC5000-0301	KZ0027			Top Case
FH602	UH0014	Fuse holder	PFC5000-0301	KZ0028		-	FRONT Pane
<u>.</u>	UX1076	#ire	FRONT - 1	KZ0029			M. DralKn
ж 2	UX1077	#ire	FRONT- 2	KZ0030			FRONT Cove
E10008		Fan Motor	FBA 06T12HF	, KZ0032			Under Case
TZ0066		Attachment	2SC1971-01 Attachment	NK0043			VOL Knob
UE0258		Connector	FM-M. D. R. (4)	NK0044			SQL Knob
UX1085		Connecter	ACC Connecter	NK0045			SUB Diat K
4							

Ref. Parts No.	Description	Parts Name	řŽ	No.
T0046	Transistor	2SC1972	85	SP0008
10101	Transistor	2SC1971	85	SP0009
T0127	Transistor	2SC3419-Y	SS	SS0066
XT0128	Transistor	25C2904	SS	290088
YZ0001		Silicon Grease	SS	890088
	Mechanical	Parts	SS	SS0069
AA0007		Screw M2.6+6FeCr	IST.	TS0104
AA0024		Screw M3+6FeN	ST	150105
AA0050		Screw 26+6FeBC		
AA0057		Screw M2.6+6FeCr		
AA0059		Screw MZ_6+6FeN	99#	#G0598K
AA0060			080	DS0352A
AA0061			080	DS0362A
AD0005				EHM42
AF0005			윤	FP0099
AJ0015			ů.	FP0100
AJ0017			±	HK0385
AJ0029			₹	HM0148
AND012		₹	포	нР0002
AP0022		Screw 2. 6+128C	±	HP0039
AZ0031		Washer	≘.	HU0080
FF0015			로	HU00081
FF0031		Cloth 7*30	₹	но0082
FF0032		Pad	₹	HU0084
FG0147		Rubber	₹_	HU0088
FG0197		SP Cushion	Æ	PH0009
FG0206		TONE UNIT Cushion 70T	<u>*</u>	PX0060
FM0076		IC Spring	<u>e.</u>	PR0237
FW0083		Washer	<u>«</u>	PR0287
FM0102		IC Spring	æ	PR0288
FW0103		SP Angle	8	PS0221
FM0104		Fan Cover Angle	PT	PT0004A
FW0106		Angle	<u> </u>	UA0052
FW0107		FRONT Angle U		
FM0108		Connecter Angle		
FP0004		Bind Mire		
K#0195		Shassis Case		
KZ0027		Top Case		
KZ0028		FRONT Panel S		
KZ0029		M. Dral Knob		
KZ0030		FRONT Cover S		
KZ0032		Under Case T		
NK0043		VOL Knob		
NK0044		SQL Knob		
NK0045		SUB Dial Knob		

Packin
~~~

Mechanical Parts/Packing	Parts Name	
	Description	
	Parts No.	
	Ne.	

### **ADJUSTMENT**

### 1) PA unit Adjustment

#### Required Test Equipment

- 1. Digital voltage meter
  - 2. DC current meter

300~500mA

- 3. DC regulated power supply

13.80V 25A or more

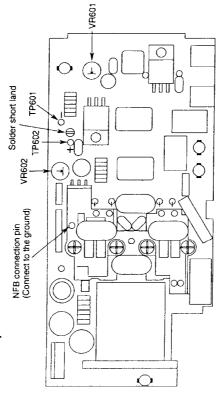
- 4. Power meter
- (should be equipped with 20~25A current limit and current meter) 5. Linear detector

100W (1.9~30MHz)

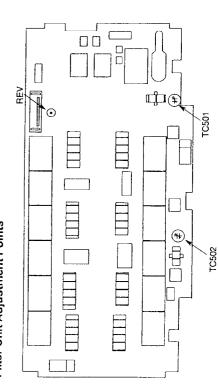
1.9~60MHz, -10~+10dBm

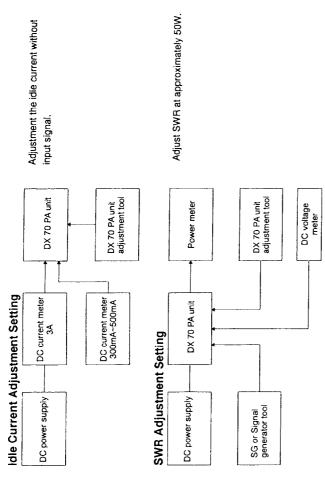
6. SG or RF generator

### PA Unit Adjustment Points



### Filter Unit Adjustment Points





#### PA Adjustment

		Measurement	ment			Adjustment
Item	Condition					
		Equipment	Termina	Unit	Parts	Method
Idling current 2SC1972 x 2	SSG: OFF Mode: USB VR601, 602: min.	Current Meter 300~500mA	TP601 ⊖ TP602 ⊕	Α٩	VR601	Desolder the short-land Cornect the curert meter between TP601 and TP602, then adjust VR601 to 100mA. Solder the short-land
ldling current 2SC2904 x 2	SSG: OFF Mode: USB	Current Meter 3A	CN605 unit total current		VR602	Connect terminal pin of NFB unit to the ground, check the total current in transmission mode. Then remove terminal pin from ground, adjust VR602 to increase 300mA.
	Connect TP1 and TP2 by soldering after adjusting	soldering after a	djusting.			
SWR	f=1.9MHz SG >>PA unit	Voltage Meter	REV	Filter	TC501	Adjust the output power to 50W, TC501 then adjust the TC501 so that REV voltage is min.
	í=52MHz				TC502	Adjust the output power to 5W, then adjust the TC501 so that REV voltage is min.
	When you adjust thefinishe output power to about 50W.	ed goods, set the To protect from ax	mode to SS cidental dang	B, adjust	the inpur	When you adjust thefinished goods, set the mode to SSB, adjust the input level of microphone, and set the output power to about 50W. (To protect from axcidental damage). Then proceed to "B) Transmission Adjustment".

#### 2) PLL Adjustment

### Required Test Equipment

- Digital voltage meter
   DC regulated power supply

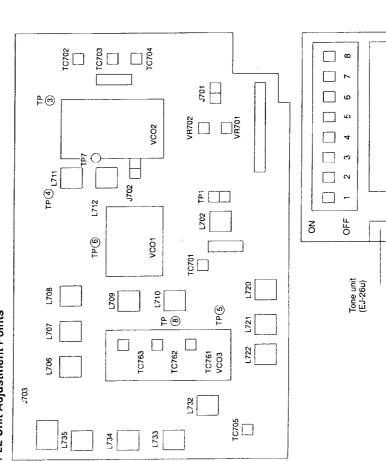
13.80V 5A or more

Frequency counter
 Spectrum Analyzer

5. Oscilloscope

- 1GHz or more 100MHz or more 500MHz or more

### PLL Unit Adjustment Points



item	Condition	Meası	Measurement			A	Adjustment
		Equipment	Cuit	Terminal	Unit	Parts	Method
VCO1 Frequency	PD1=1.2V	Freq. Counter	VC01	CN90			175MHz or above
	PD1=4.3V						155MHz or below
VCO2 Frequency	PD1=1.5~4V	Freq. Counter	VC02	CN90 2~4			VCO2 freq.: 71MHz
	Attach the VCO to PLL, then adjust the unit after installing the PLL to the unit	hen adjust the ur	nit after ir	stalling the	PLL to th	e unit.	
VCO2 Lock range	1=7.100MHz	Digital tester	PLL	TP7		Check	1.5V~4V
VCO1 Lock range	f=7.0999MHz			TP6			1V~3V
	f≈7.1000MHz						3V~4.3V
VCO3 Lock range	/=0.1500MHz			TP8	VCO3	TC961	2.5V
	f=10.4999MHz					TC961	When the voltage is 6.45V or below, adjust the unit to 6.5V again. (6.45V-7.0V)
	f=10.5000MHz					TC962	2.5V
	I=21.4999MHz					TC962	When the voltage is 6.45V or below, adjust the unit to 6.5V again. (6.45V-7.0V)
	f=21.5000MHz					TC963	2.5V
	f=29.9999MHz					Check	6.5V or below
2nd LO Level	f=7.100MHz	Oscilloscope		TP4	PLL	1711	Turn the coils to the max. repeatedly.
1st LO Level	f=7.100MHz			TP5		L709 L710	Turn the coils to the max. repeatedly.
	f=7.100MHz					L706 L707 L708	Turn the coils to the max. repeatedly.

		Measu	Measurement			4	Adjustment
Менн	Condition	Equipment	Unit	Terminat	Unit	Parts	Method
Frequency	RX LSB	Freq. Counter	급	ТРЗ	P.L.	TC702	9873.60kHz +/- 0.02kHz
(Mode)	RX USB					TC704	9876.40kHz +/- 0.02kHz
	RX AM and FM					TC703	9875.00kHz +/- 0.02kHz
	RX CWU					Check	9875.80kHz +/- 0.3kHz
	RX CWL						9874.20kHz +/- 0.3kHz
Frequency	RX LSB			J701		VH702	453.60kHz +/- 0.1kHz
(IF Shift)	TX LSB					VR701	453.60kHz +/- 0.01kHz
	RX LT, (IF Shift center)					Check	453.30kHz +/- 0.2kHz
	TX LT, (IF Shift center)						453.50kHz +/- 0.2kHz
	RX UT, (IF Shift center)						456.70kHz +/- 0.2kHz
	TX UT, (IF Shift center)					-	456.50kHz +/- 0.2kHz
Frequency	I=7.1000MHz, FM			J703		TC701 L702	78850.00kHz Adjust TC701 at first, then L702 when TC701 can not be adjusted.
Level	f=7.100MHz, USB	Spectrum Analyzer		J701		Check	-6~0dBm <b>I</b> =456.4kHz
Level	f=7.100MHz, USB			J702			1~6dBm f=71.295MHz
Level	í=53.9999MHz			J703		L720 L721	Turn the coils to the max. repeatedly.
						L/22	f=123.75MHz Turn the coils to the
Level	l=53.9999MHz					L733 L734	max. repeatedly f=123.75MHz
Spurious	í≖53.9999MHz					TC705	Spurious min. (60dB or more)
	f=150kHz f=10.400MHz						
Level	f=10.500MHz f=21.400MHz					Check	Check Level: 2~6dBm +/-2dB
	f=21.500MHz						
	f=29.9999MHz						

### 3) Tone Unit Adjustment

Attach EJ26U to DX70. 2 When the subaudible Tone is ON in FM mode, adjust the unit according to following table. 3 When the subaudible Tone is OFF in FM mode, the tone should not be emitted.

#0 <u>4</u>	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Measi	Measurement			A	Adjustment
III	Condition	Equipment	Unit	Terminal	Unit	Parts	Method
Tone Frequency	250.3Hz 1 2 3 4 5 6 7 8	Freq. Counter	EJ26 u	CN99			249.6~251.0Hz
Tone Frequency	156.3Hz 1 2 3 4 5 6 7 8	Freq. Counter	EJ26 u	CN99			156.2~157.2Hz
Tone	156.3Hz 1 2 3 4 5 6 7 8	Oscilloscope	EJ26 U	CN99			1.8~3.0V p-p
Tone Level	156.3Hz 1 2 3 4 5 6 7 8	Oscilloscope	EJ26 u	CN99			2.8~3.8V p-p
Tone Level	156.3Hz 1 2 3 4 5 6 7 8	Oscilloscope	EJ26 u	CN99			3.8~4.8V p-p
Final Setting	88.5Hz 1 2 3 4 5 6 7 8						Attach to the DX70T after the tone level obtains 88.5Hz.

^{*} indicates the number is ON.

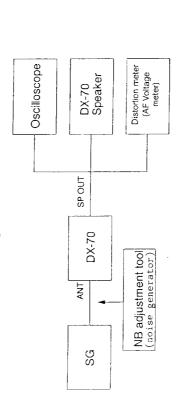
### Required Test Equipment

- Digital voltage meter
- 2. DC regulated power supply3. SG

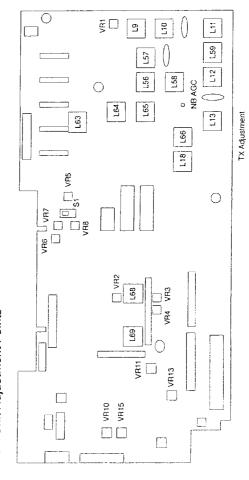
13.80V 3A or more about 200MHz

- 4. Distortion meter, AF voltage meter
  - 8Ω speaker
- 7. (NB adjustment tool) 6. Oscilloscope

### Main Unit Adjustment Setting



### Main Unit Adjustment Points



### 4) Sensitivity Adjustment

Mode: USB AIF: Center SG Output Frequency: 14,1000MHz Frequency: 14.0993MHz RF Gain: +10dB

Filter: Wide

Connect to HF Antenna Terminal. RIT: OFF AGC: FAST

Squeich VR: Turn the knob counterclockwise fully.

ltem	Condition	Measurement	ment			Adjustment
		Equipment	Terminal	Unit	Parts	Method
	SG output: 0dBµ				L56 L57 L58 L59	Adjust every following group repeatedly to obtain the maximum receiving signal:
Tuning	Mod: OFF AF output: 300mV	Audio Voltmeter	S	Main	L12 L13 L66	maximum ecewing signal; LS6, 57, 58 LS9, 12, 13
					697 168	L68, L69
	Mode: FM f=14.1000MHz	Distortion		J	1.59	Adjust repeatedly to obtain the
	SG output: 0dBμ Mod: 1kHz, 3.5kHzDEV	Meter			L12 L13	maximum SINAD. SINAD should be 13dB or more.
	SG output: 60dBμ 1kHz, 3.5kHzDEV			<del>1</del>	Check	SINAD should be 30dB or more. If SINAD is below 30dB, adjust
	SG output: -6dBµ Mod: OFF Mode: USB	Audio			Check	Make sure that S/N is 10.5dB or more by turning ON/OFF SG
	AF output: 300mV				•	output.
	SG output: 10dBµ Mod: 1kHz, 30%			1		Make sure S/N is 10dB or more
	Mode: AM f=14.1000MHz				Check	Check by turning ON/OFF SG modulation.

# 5) Noise Blanker Adjustment

SG Output Frequency: 14.1000MHz Frequency: 14,0993MHz RF Gain: +10dB Filter: Wide

Mode: USB ΔIF: Center

NB: OFF Connect to HF Antenna Terminal.

RIT: OFF AGC: FAST NB: OFF Squelch VR: Turn the knob counterciockwise fully.

# 7) Receiving Function Adjustment

SG Output Frequency: 14.1000MHz Frequency: 14.0593MHz Mod-RF Gain: +10dB AIF: Fitter: Wide

Mode: USB AIF: Center

Connect to HF Antenna Terminal.

RIT: OFF AGC: FAST NB: OFF Squelch VR: Turn the knob counterclockwise fully.

Item	Condition	Measurement	ment			Adjustment
		Equipment Terminal Unit Parts	Terminal	Unit	Parts	Method
Tuning	SG output: OdBµ Mod: OFF Mode: USB I=14.0993MHz NB: ON	Oscilloscope	NB AGC (MAIN)	Main	L63 L64 L65	Adjust the coils, and set DC voltage of the terminal to the minimum with the oscilloscope.
6) S Met	6) S Meter Adjustment					

Item	Condition	Measurement	ment			Adjustment
		Equipment	Terminal	Unit	Parts	Method
RX Total Gain	SG output: 40dBµ Mod: OFF Mode: USB =14.0993MHz RF Gain: 0dB	AF Voltmeter	a.S	Main	VR2	Adjust SP output by setting the AF gain to about 1V. The output level should be 0dB. Adjust only the noise output to -28dB by turning OFF SG output.
S Meter	SG output: 20dBµ Mod: OFF SG output: 40dBµ	S Meter	S Meter		VR10 VR15	The indicator between first and second digits is turned ON. The 9th digit starts flashing. Adjust VR10 and VR15 repeatedly.
	SG: OFF				Check	Check S Meter is not turned ON.
Squelch	SG: OFF		BUSY RX LED (Green) AF		Check	Turn the Squelch VR to make sure that the squelch closes at about 10 o'clock.

Item	Condition	Measurement	ment			Adjustment
		Equipment	Terminal	Unit	Parts	Method
AGC	SG output: 40dBµ Output: ON/OFF Mod: OFF		S Meter		Check	Switch AGC. When SG is turned Check OFF, the meter moves slowly in SLOW, and fast in FAST.
RF GAIN	SG output: 40dBµ		S Meter		Check	Switch the RF GAIN from +10dB orderly, the meter swings shorter and shorter.
FILTER Switching	Output: OFF Mode: USB, AM, CW				Check	Switch the FILTER in every mode (except FM), the noise sound should be changed.
Band Sensitivity	SG output: -6dBµ f-1.9000MHz f-2.0000MHz f-7.0000MHz f-21.1000MHz f-21.1000MHz f-21.1000MHz mode: USB or LSB	Audio Voltmeter	ő		Check	In USB mode, SG frequency is -700Hz. In LSB mode, SG frequency is +700Hz. Make sure that S/N is 10dB or more.
50MHz Sensitivity	Connect SG to 50MHz antenna terminal. SG output: -10dBµ SG freq: 52.1000MHz Mode: USB 1=52.0993MHz				Check	S/N is 10.5dB or more when turning ON/OFF SG output.
	SG output: -4dBµ Mod: 1kHz, 3.5kHzDev Mode: FM 1=52.0000MHz	Distortion Meter			Check	Check SINAD: 13dB or more

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#### Required Test Equipment

- Digital voltage meter
  - 2. DC current meter
- 3. DC regulated power supply
- 4. Power meter

(should be equipped with 20~25A current limit)

13.80V 25A or more

20~30A

10W (1.9~60MHz or more)

100W (1.9~30MHz)

- Linear detector
   AF generator (600Ω)
- 7. AF voltage meter
- 9. Electronic keyer (CW telegraphy key) 8. Oscilloscope
  - 10.TUNE operation tool

#### TX Adjustment Setting

Power m CW key ANŢ Current meter DC power supply DX-70 MEC MEC E--AF voltage meter AF signal generator

	Condition	Measurement	ment			Adjustment
		Equipment	Terminal	Shit	Parts	Method
Tuning	Slide S1 to rear panel side. AG output: -50dBm	Power Meter	HF Anlenna Terminal	Main	L11 L10 L9	Adjust to the maximum power. (Adjust the AG input level so that the power becomes the maximum at about 50W.
Current Limit	AG output: OFF Mode: FM Set VR7 to 9 o'clock. Set VR6 to 3 o'clock.	Current Meter	Power Supply Terminal		VR6	Turn VR6 counterclockwise so that the total current becomes 20A. Be careful not to run much current for short time.
Power	Mode: FM	Power Meter	HF Antenna Terminal		VR7	Turn VR7 clockwise to decrease the power, then adjust to 100W.
	Slide S1 to front panel side.			•	VR5	Turn VR5 to obtain the power of 50W.
	Slide S1 to rear panel side. Operate TUNE with tool.				VR8	Turn VR8 to obtain the power of 10W.
	f: 52.0000MHz Mode: FM		50MHz Antenna Terminal	Filter	TC502	Set the power to 10W or approximate value. 10W +/- within 1W
FM Frequency Deviation	AG output: -30dBm f: 52.0000MHz Mode: FM	Linear Detector		Main	VR13	Adjust the maximum frequency deviation to 4.3kHz.
	(only the unit equipped				Check	The frequency deviation is increased. (Anorox 5kHz)

## 8) Transmission Adjustment

Connect the power meter to HF antenna terminal. Frequency: 7.1000MHz Mode: USB rrequency: 7.1000MHz Mode: USB Speech Compressor (SET mode): OFF

Power: High FM-TONE: OFF

		Current	Mode: FM Set VR7 to 9 o'clock.	Current Meter	Power Supply Terminal		VR6	that the total current becomes 20A. Be careful not to run much
motor			Set VRb to 3 o'clock.					current for short time.
5		Power	Mode: FM	Power Meter	HF Antenna		VR7	Turn VR7 clockwise to decrease
		<u>-</u>			Terminal			the power, then adjust to 100W.
	-		Slide S1 to front panel			1		Turn VR5 to obtain the nower of
	Linear detector		side.			•	VR5	50W.
			Slide S1 to rear panel					
			side.				VR8	VR8 Turn VR8 to obtain the power of
	Spectrum		Operate TUNE with tool.					10W.
	analyzer		f: 52.0000MHz	<b></b>	50MHz			Set the power to 10W or
			Mode: FM		Antenna	Filter	TC502	approximate value.
					erminai			10W +/- within 1W
		Ā	AG output: -30dBm					
		Frequency	f: 52.0000MHz	Linear		Main	VR13	Adjust the maximum frequency
		Deviation	Mode: FM	Defector				deviation to 4.3kHz.
			FM-TONE: ON			*		
			(only the unit equipped				Check	The frequency deviation is
			with TONE)					increased. (Approx. 5kHz)

Connect the power meter to 50MHz antenna terminal. Frequency: 52.000MHz Mode: USB Speech Compressor (SET mode): OFF

Power: High FM-TONE: OFF

### 9) Spurious Adjustment

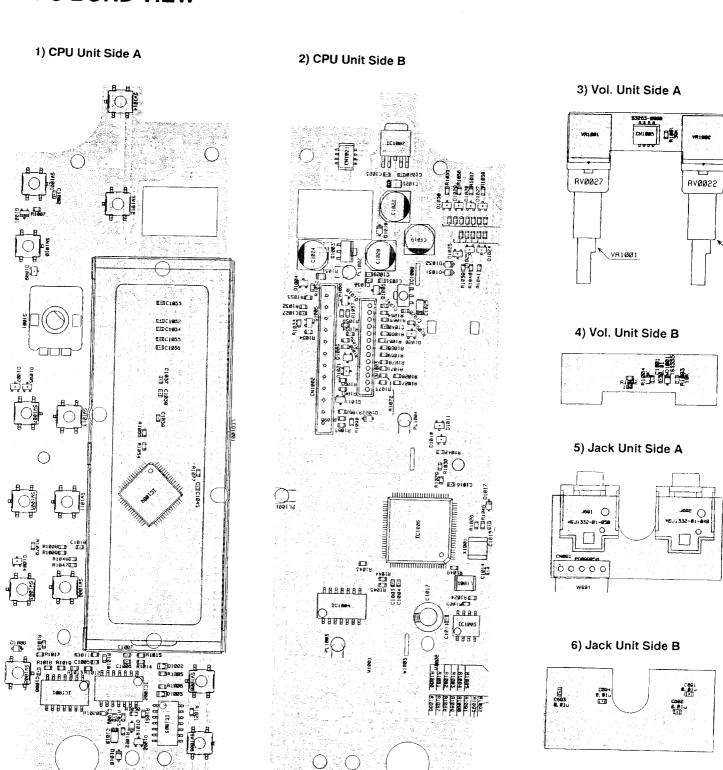
Connect the power meter to HF or 50MHz antenna terminal.
Frequency: 52.000MHz Mode: FM Pow Speech Compressor (SET mode): OFF FM-

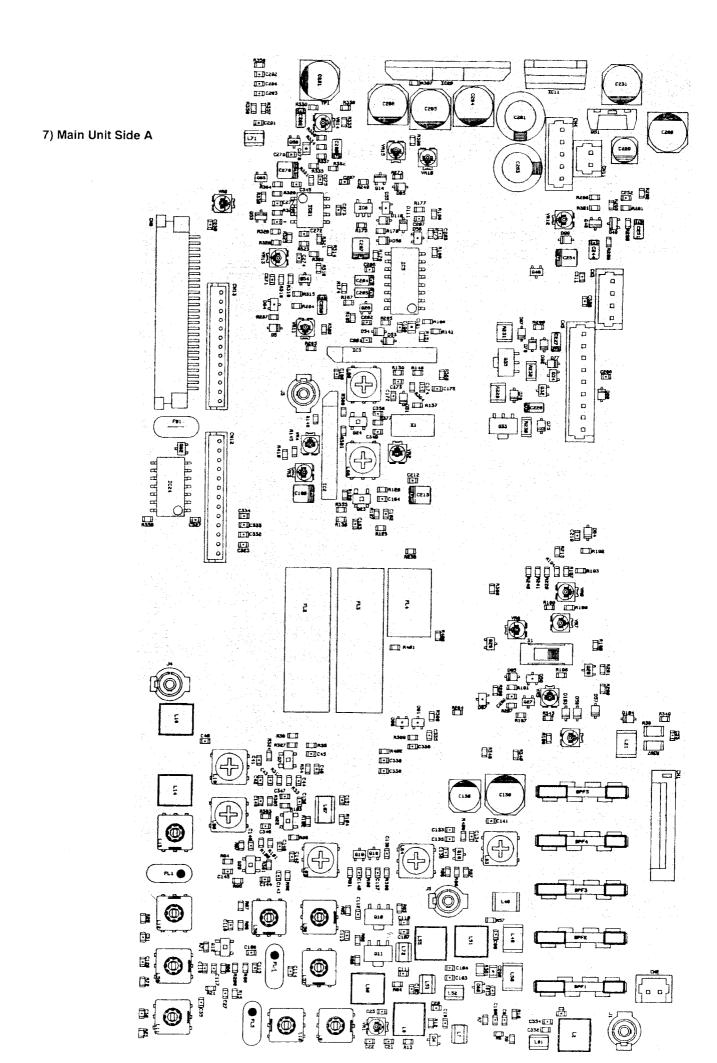
Power: High FM-TONE: OFF

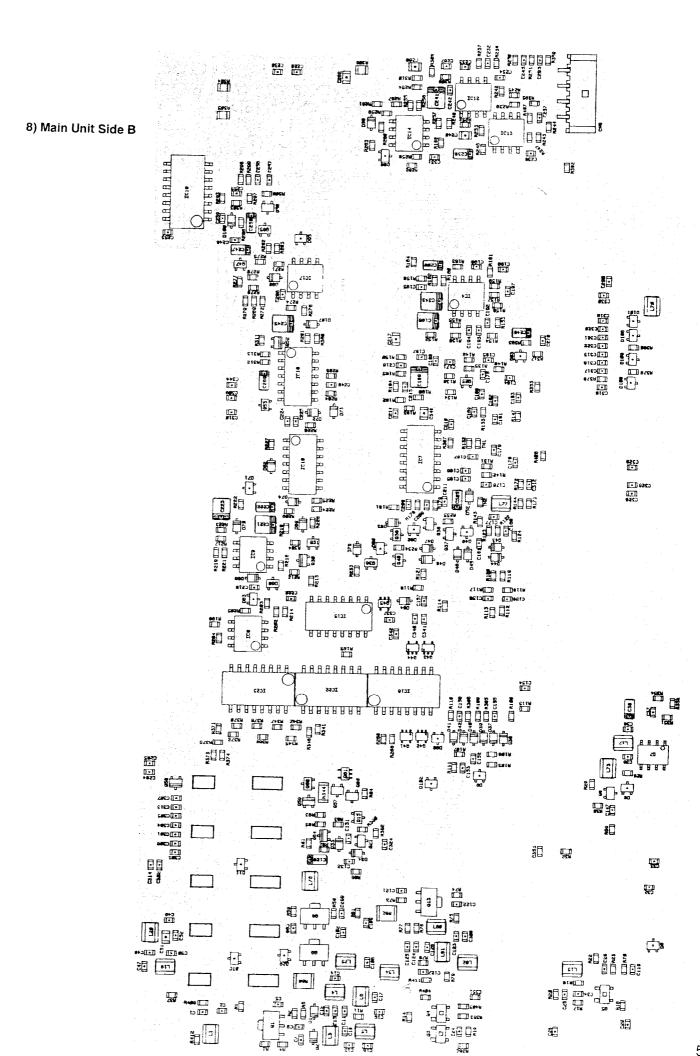
E al	noitibaco	Measurement	ment			Adjustment		1 4
		Equipment	Terminal	Cnit	Parts	Method		
Filter Tuning	AG output: -30dBm Mode: FM FM-TONE: OFF	Oscilloscope (Linear Detector)	50MHz Antenna Terminal	Main	L11 L10 L9	Set the AM modulation factor to the minimum. It should be 5% or below.	<i>ઝ</i> ⋴ ]	Spuri Bala
Carrier Balance	AG output: OFF f: 7.1000MHz Mode: LSB/USB	Oscilloscope	HF Antenna Terminal		VR3 VR4	Adjust VR3 and VR4 so that the carrier suppression is 50dB (1/300) or below at 100W. The carrier suppression should be decreased in both USB and LSB.	 	Spuri
CW Wave Form	Mode: CW-L/CW-U Electronic-keyer (dot): approx. 20mS				VR11 Check	Make sure of the wave form.  The wave form of rise and fall should be symmetry.  Check (The inclination is approx. 5mS.)  The side tone of CW is should be		
Low Power	Mode: FM Power: Low	Power Meter			Check	heard from speaker.  Check Within 10-20W	O m	Carr Bala
AM Power	AG output: OFF Mode: AM Power: High				Check	Check 3550W	¥	Modul
Band	Mode: FM Band (MHz): 1.9, 3.5, 10, 14, 18, 21, 24, 28				Check	Make sure that the power is 95~105W.		

Item	Condition	Measurement	nent			Adjustment
		Equipment	Terminal	Cait	Parts	Method
Spurious Balance	AG output: OFF Mode: FM FM-TONE: OFF (t: 52.0000MHz)	ATT + spectrum Analyzer	50MHz Antenna Terminal	Main	VR1	Balance the spurious to obtain the minimum value60dB or below
Spurious	AG output: OFF Mode: FM Band (MHz): 1.9, 3.5, 10, 14, 18, 21, 24, 28		HF Antenna Terminal	<u> </u>	Check	-52dB or below Check (47dB or below in 10MHz band only)
					67	Adjust so that the value is within the regulation.  (Adjust L9 when the spurious is not -52dB or below in 24/28MHz band.)
Carrier Balance	AG output: OFF Mode: LSB/USB			•	Check (VR3 VR4)	-50dB or below (Adjust VR3 and VR4 when the carrier suppression is not -50dB or below.)
Modulation	Modulation Keying: OFF f: 53,99MHz			<b> </b>	Check	Check -60dB or below
	Mode: FM, AM, USB/LSB Connect the microphone.	Monitor Transceiver		·	Check	Make sure the modulation sound in every mode.

#### **PC BORD VIEW**

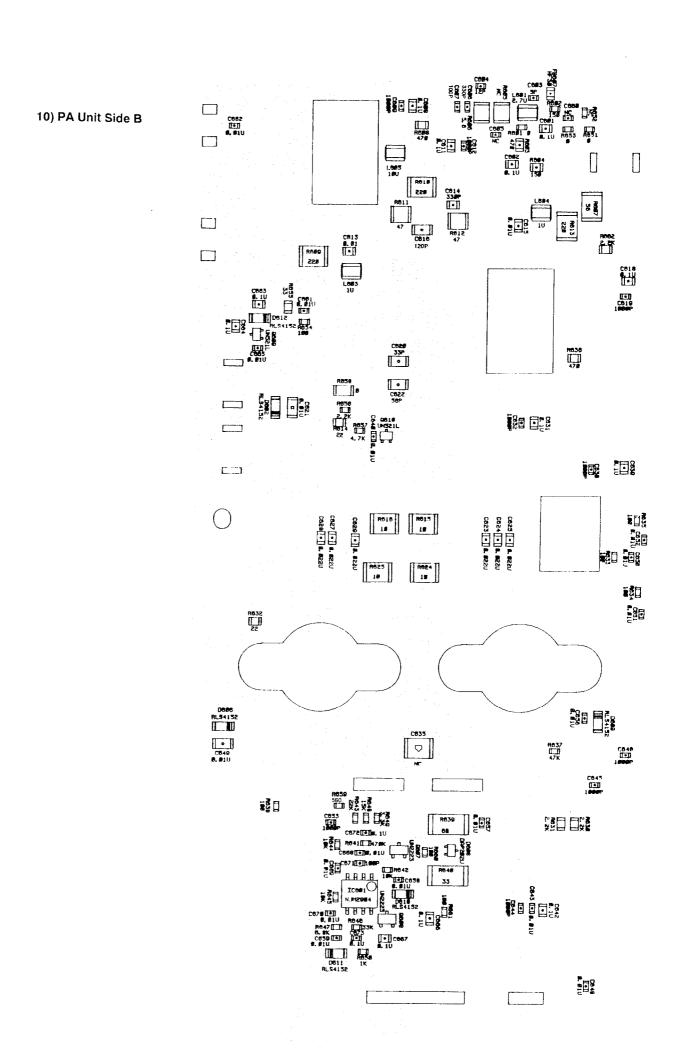


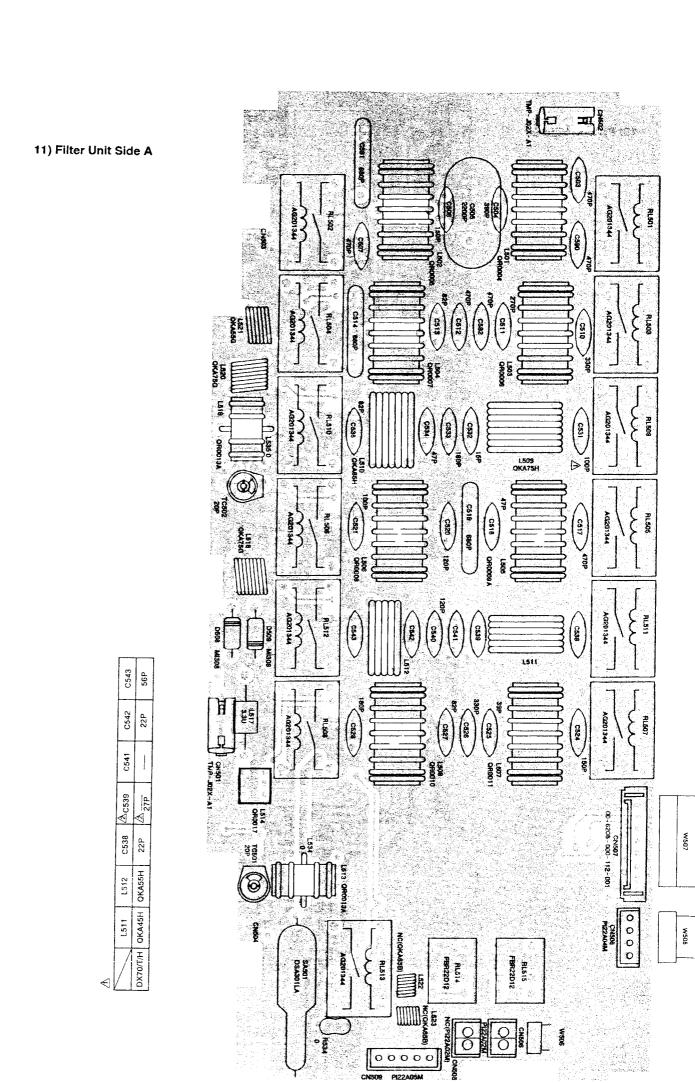


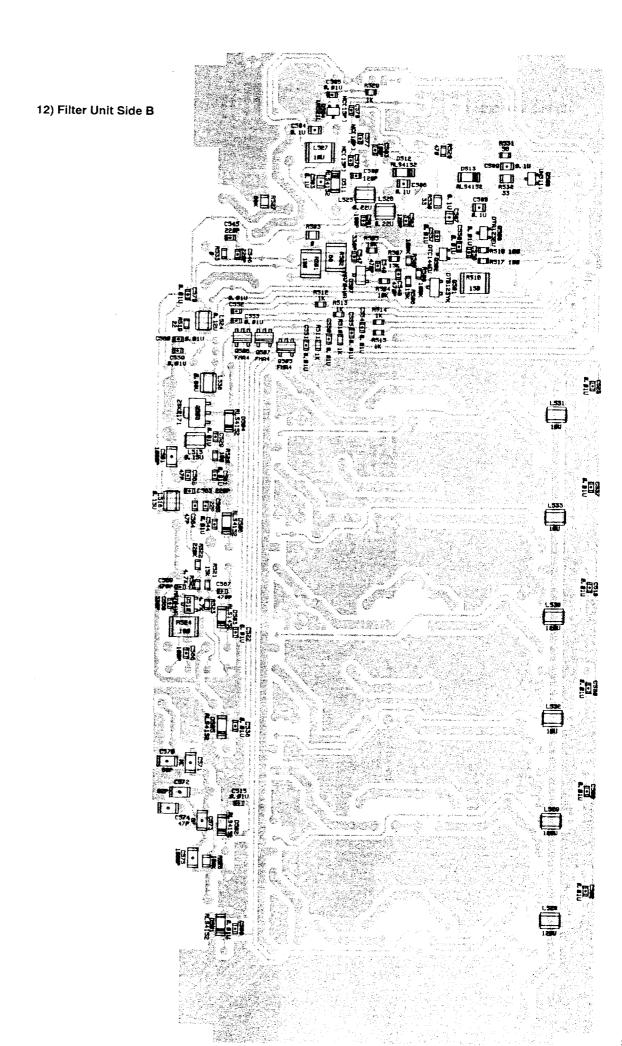


#### JPJ2545 01-510 9) PA Unit Side A O CP610 0603 2SC1972 0 8 4 Y Y W607 00000 R619 3.3 2SC3419Y C626 000000000 W606 C 2003 25C2904 2SC2904 3090 0604 C634 10001 89 O O 8 RL602 AJK3241 ) \$8 g g g g g LE10 OR0018 C641 470U18V BK RED RED CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSUS CONSU

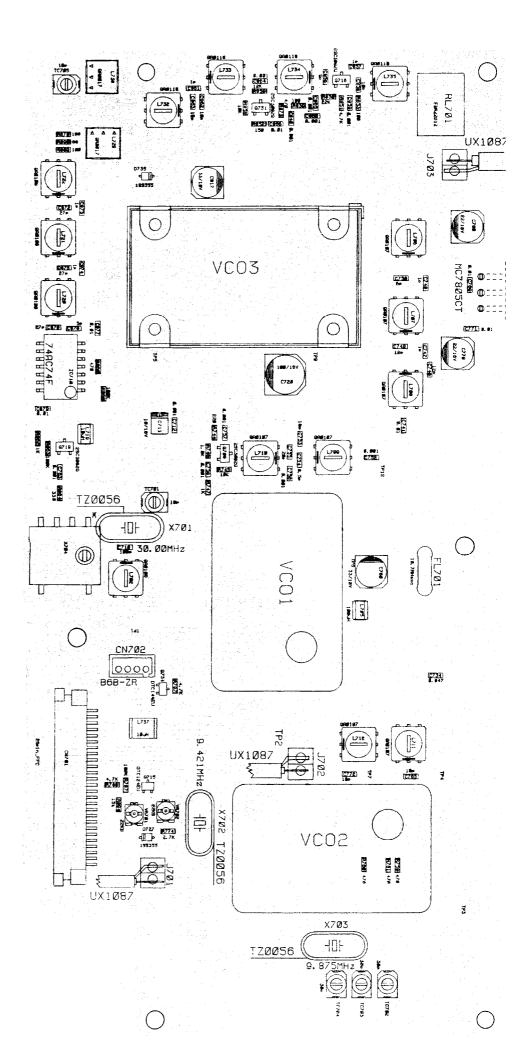
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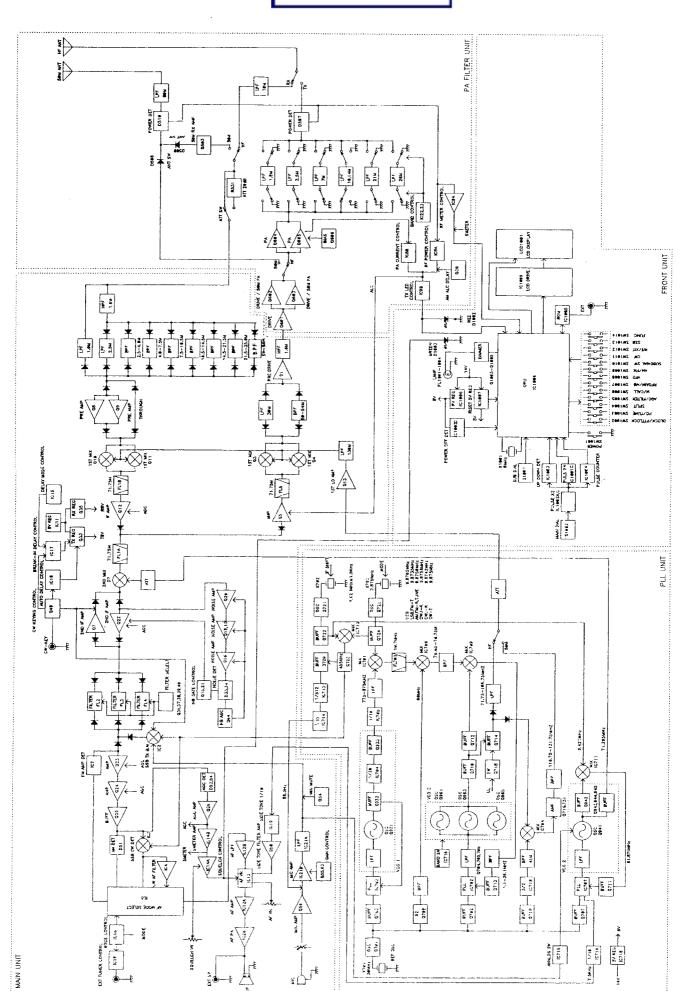


#### 13) PLL Uint Side A



* (EZET) 14) PLL Unit Side B #81 #95 #95 (BEE) [ZEE] [GEE] TETE) EZER. 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E 35.23~ THE CHECK \$2.723 azs 177AB 0/ 227 227 2170 2170 2270 (N. 7.2) EZSE nc ee: IB(Z) BAAA ez t(2575) NPC1812-CH H H H H (2788) (2788) (6788) (6789, 7, 88 10714 186 11(0) 59/4 8 0 1 (20/2):ee BBBBBBBB SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND STATE OF THE SECOND . . . U980Z88W [622]47# [628]0 6. 8882 [628]0 6. 8882 [627]0 6. 847 Z#Z3I <u>,8686688</u> 3223 1740 PV50 91/21 THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P

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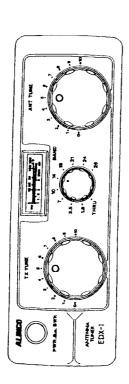


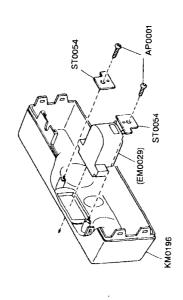
# **BLOCK DIAGRAM**

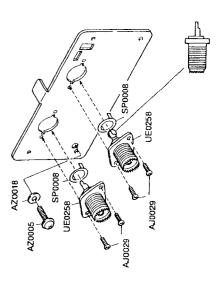
# Exploded View for EDX-1

1) Front View

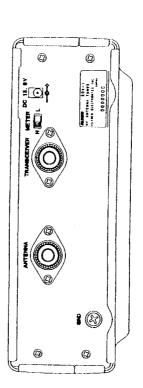
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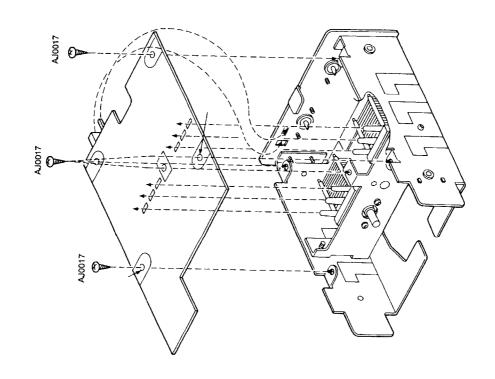


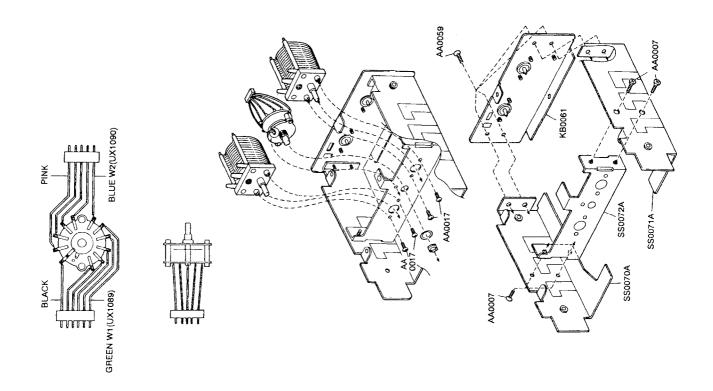


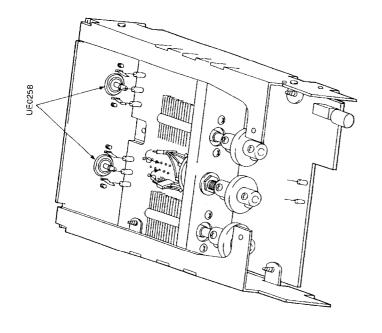


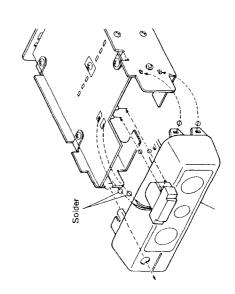


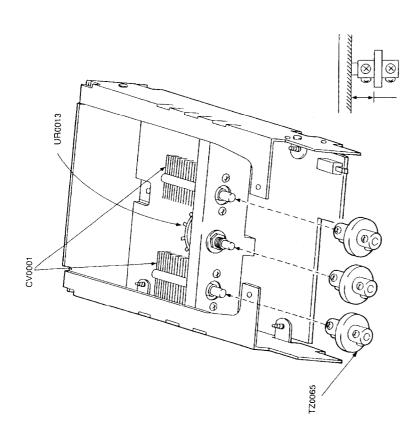


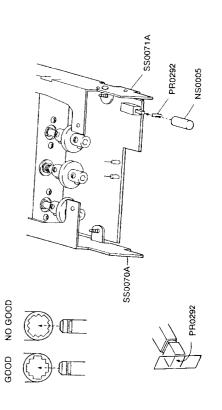


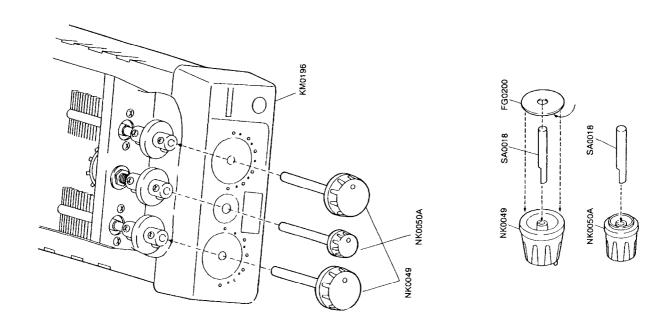


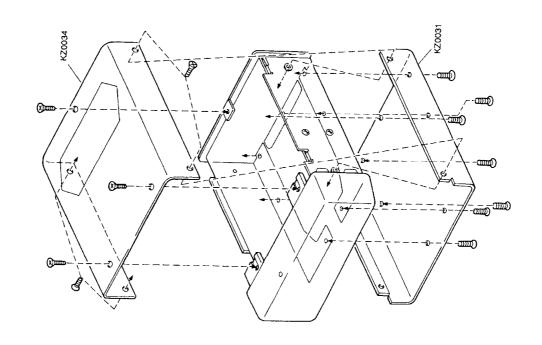












# Parts List for EDX-1

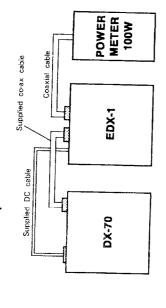
Hef.	Darte No.	Darte Name		-	Ref.	
ġ	Farts No.	Farts Name		roc	ž	Parts No
		Tuner			JP4	RD1013
5	CU3047	C1608JB1H103KT-A		~	JP5	RD1013
25	CE0201	16MV10SZ SE?	<b>×</b>		JP6	RD1013
33	CE0201	16MV10SZ SE!	<b>x</b>		JP7	RD1013
3	CU3047	C1608JB1H103KT-A	_	<b>-</b>	JP8	RD1013
S	cu3027	C1608CH1HZ21KT-A	-	<	940	RD1013
క్ర	cu3029	C1608JB1H331KT-A	-	<	JP10	
73	cu3031	C1608JB1H471KT-A	_	<	JP11	RK1107
8	CU3031	C1608JB1H471KT-A	-	<	. 5	RD1013
63	cu3101	C1608JB1C473KT-A	-	∢	77	QR0013A
C10	cu3101	C1608JB1C473KT-A	-	<	13	OKB002
5	CU3101	C1608JB1C473KT-A	-	~	7	0R0019
C12	CU3031	C1608JB1H471KT-A	-	<	LS	OR0020
C13	CU3044	C1608JB1H562KT-A	-	٧	Pre Pre	000048
C14	090080	TMCSA1E474MTR		<	6	XT0113
C15	CU3047	C1608JB1H103KT-A	_	<	05	XU0148
616	CU3047	C1608JB1H103KT-A		*	63	xu0148
C13	CU3047	C1608JB1H103KT~A	<b>-</b>	∢	æ	RK4087
23	CU3047	C1608JB1H103KT~A	-	<	F2	RD0001
C19	CU3047	C1608JB1H103KT-A	-	<	R3	RK4029
020	CU3047	C1608JB1H103KT-A	_	<	R 4	RK4024
C21		NC NC	-		22	RK3050
C22	CU3047	C1,608JB1H103KT-A	-	<	86	RK3050
c23	CU3047	C1608JB1H103KT-A	_	<	R7	RK3052
22	CU3047	C1608JB1H103KT-A	_	∢	88	RK3052
525	CU3047	C1608JB1H103XT-A	_	<	£	RK3060
c26	cu3047	C1608JB1H103KT-A	_	∢	R10	RK3062
C27	CU3047	C1608JB1H103KT-A	-	<	 	RK3062
c28	cn3030	C1608JB1H391KT-A	_	<	R12	RK3062
623	CU3047	C1608JB1H103KT~A	_	<	R13	PK 3050
C30	CU3047	C1608JB1H103KT-A	_	<del>-</del>	R14	RK3050
3	090080	TMCSA1E474MTR	_	<	R15	FK3063
10	xD0273	RLS-93 TE11	_	4	R16	RK3048
20	xD0297	MA8100 TX	-	۷.	R17	RK3050
63	XD0127	MA704WA TX	-	~	R18	RK3054
ž	XD0273	RLS-93 7E11	_	~	R19	RK3048
02	xD0273	RLS-93 TE11	-	٧	R20	RK3050
5	XA0224		_	<	R21	RK3050
22	XA0224	NJM2904M-T1 JRC	-	<b>~</b>	R22	RK3057
5	UJ0033	HEC2781-010520	<b>=</b>		R23	RK3074
F.	RD1013	JPW02 R01	<del>-</del>		R24	RK3057
JP2	R01013	JPW02 R01	±		R25	RK3057
JP.3	RD1013	JPW02 R01	± -		R26	RK3062

Ref.	Parts No.	Parts Name		2
2				3
JP4	RD1013	JPW02 R01	<b>±</b>	
JP5	RD1013	JPW02 R01	×	
9AC	RD1013	JPW02 R01	I	
JP7	RD1013	JPW02 R01	Ŧ	
JP8	RD1013	JPW02 R01	×	
6dir	RD1013	JPW02 R01	Ŧ	
JP10		NC NC		
JP11	RK1107	ERJ8GEY0R00V		<
. 5	RD1013	JP#02 R01	x	
77	QR0013A	Toroidal Coil OR0013A	<b>±</b>	
ខ្ម	0KB002	COIL 0KB002	x	
7	0R0019	Toroidal Coil 0R0019	ı	
L5	0K00Z0	Toroidal Coil 0R0020	I	
9T	0C0048	NL322527-100J		~
ō	XT0113	2SC2873Y TE12L		<
05	XU0148	DTC144EU T106		~
63	XU0148	DTC144EU T106 1		~
æ	RK4087	ERJ14YJ151V		~
R2	RD0001	ERD S2TJ 100	3	
R3	RK4029	ERJ~12YJ181H		~
R4	RK4024	ERJ-12YJ680H		∢
R5	RK3050	ERJ3GSYJ103V		~
R6	RK3050	ERJ36SYJ103V		*
R7	RK3052	ERJ3GSYJ153V		~
<b>R</b> 8	RK3052	ERJ3GSYJ153V 1		<b>*</b>
R9	RK3060	ERJ3GSYJ683V		*
R10	RK3062	ERJ3GSYJ104V		<
R11	RK3062	ERJ3GSYJ104V		<
R12	RK3062	ERJ3GSYJ104V		≺
R13	PK 3050	ERJ3GSYJ103V 1		*
R14	RK3050	ERJ3GSYJ103V 1		~
R15	FK3063	ERJ3GSYJ124V		∢
R16	RK3048	ERJ3GSYJ682V		*
R17	RK3050	ERJ3GSYJ103V		~
R18	RK3054	ERJ3GSYJ223V		*
R19	RK3048	ERJ3GSYJ682V		*
R20	RK3050	ERJ3GSYJ103V		~
R21	RK3050	ERJ3GSYJ103V		~
R22	RK3057	ERJ3GSYJ393V		~
R23	RK3074	ERJ3GSYJ105V 1		<
R24	RK3057	ERJ3GSYJ393V		<
R25	RK3057	ERJ3GSYJ393V 1		<
R26	RK3062	ERJ3GSYJ104V		~
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R27 R28 R30 R31 RL1 RL1 SW2 SW3 TC1 VC1 VC2 VC2 VC1 VC2 WR1 WR2 WR3 WR3 WR3 WR3 WR3 WR3 WR3 WR3 WR3 WR3	RK3026 RK0001 RK3026 UL0 UL015 UR0015 UR0015 UR0013 US020 CT036 CV0001 CV0001 RH0106 UX1090 UX1091	ENJGGSYJ103V ENJGGEVJ101V ENJGGSYJ101V ENJGGSYJ101V SVR-12 SVR-12 SVR-12 SVR-12 SVR-12 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17 SVR-17		< < < < <
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R30 R31 RL2 S#1 S#2 S#3 S#3 TC1 VC2 VR1 VR2 WR2 WR2 WR3 WR3 WR3 WR3 WR3 WR3 WR3 WR3 WR3 WR3		ERJ3GSYJ474V ERJ3GSYJ101V SWR-12 SWR-12 SWR-12 SPP_122727A SPRY101AM-R15 ESD1522209 ECYTZOXG4T UV44B 300P EVM1YSX30894 EVM1YSX30894 EVM1YSX30804 Wires EDX-1 1 Wires EDX-1 2 Wires EDX-1 3 Wires EDX-1 3		< < < <
R31 RL1 RL2 SW12 SW2 SW3 TC1 VC1 VC2 VR1 VR2 W1 W1 W2 W1 UP0291		ERJ3GSYJ101V SVR-12 SVR-12 SYR-12 SPP_J22727A SRRY 101AM-R15 ESD1522299 ECV12W20X64T UV44B 300P UV44B 300P EVM1YSX50BV4 EVM1YSX50BV4 Wires EDX-1 1 Wires EDX-1 2 Wires EDX-1 3 Wires EDX-1 3	********	< <
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S#2 S#3 S#3 TCI VCI VCZ VRI VRZ W1 W2 W1 W2 W1 W2 W1		SPP_J22727A SRRY101AM-R15 ESD152209 ECV12W20X64T UV44B 300P UV44B 300P EVMIYSX50BV4 EVMIYSX50B04 Wires EDX-1 1 Wires EDX-1 2 Wires EDX-1 3 Wires EDX-1 3 EDX-1 PC Board		< <
S#3 S#3 TCI VCI VCZ VRI VRZ M1 M2 M1 M2 M1 UP0291		SRRY 101AH-R15 ESD1522209 ECV12W20X64T UV44B 300P UV44B 300P EVMIYSX50BV4 EVMIYSX50B04 Wires EDX-1 1 Wires EDX-1 2 Wires EDX-1 3 Wires EDX-1 3 EDX-1 PC Board		< <
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VC2 VR1 VR2 M1 M2 M3 M4 UPQ291		UV44B 300P EVM1YSX50BY4 EVM1YSX50B04 Wires EDX-1 1 Wires EDX-1 2 Wires EDX-1 3 Wires EDX-1 3 EDX-1 PC Board	I I I I I I	< <
VR1 VR2 W1 W2 W3 W4 UP0291		EWN1YSX50B04 EWN1YSX50B04 Wires EDX-1 1 Wires EDX-1 2 Wires EDX-1 3 Wires EDX-1 3 EDX-1 PC Board	<b>* * * * * *</b>	< ∢
VR2 M1 M2 M3 M4 UP0291		EVMIYSX50B04 Wires EDX-1 1 Wires EDX-1 2 Wires EDX-3 Wires EDX-3 EDX-1 PC Boerd	<b>x x x x</b> +	≺
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EDX	Parts Name	
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Connection Example



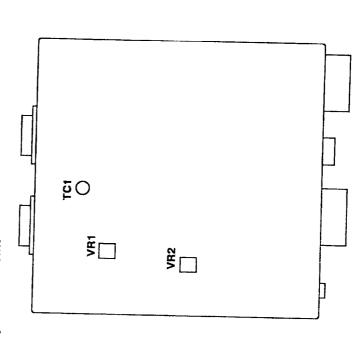
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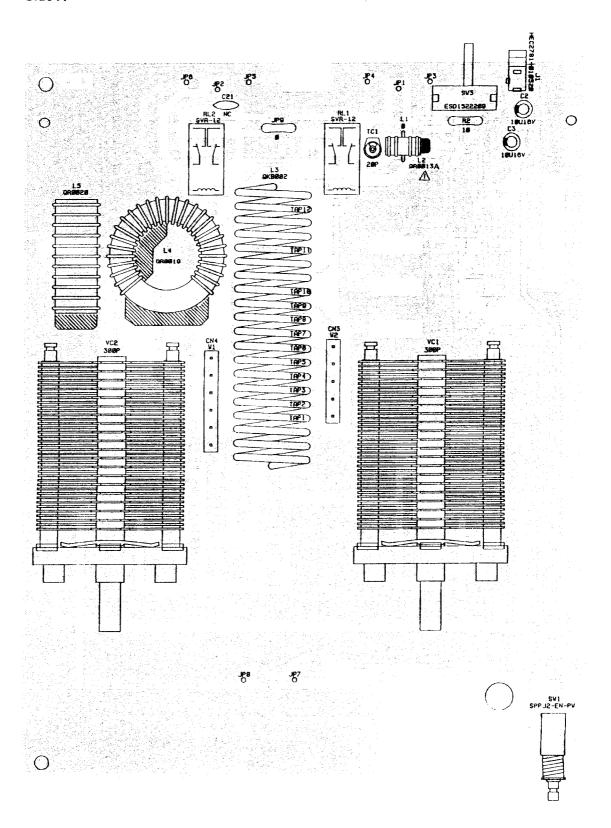
#### SWR SWR SWR SWR SWR SWR SWR SWR 10W (100W on scale) 100W 1.5max. 1.5max. 1.5max. 1.5max. 1.5max. 1.5max. 1.5max. 1.5max. 8 1.5max. ANT TUNE 9 4 7.5 7 9 8 8.5 o 6 TX TUNE 9 1 i 4 7 9 7.5 8.5 8 6 6 6 Required Test Equipment for EDX-1 METER I 工 **ب** I r I I I I I I ェ SWR Ö OFF OFF N O Š N_O 8 Ö Ö õ ŏ Š BAND THRU THRU 8. 3.5 <del>6</del>. 0 4 38 2 54 28 14.1MHz 100W 14.1MHz 100W 14.1MHz 10W TX ON 1.9MHz 100W 10.1MHz 100W 14.1MHz 100W 3.6MHz 100W 7.1MHz 100W 18.1MHz 100W 21.1MHz 100W 24.9MHz 100W 28.1MHz 100W

Adjustment for EDX-1

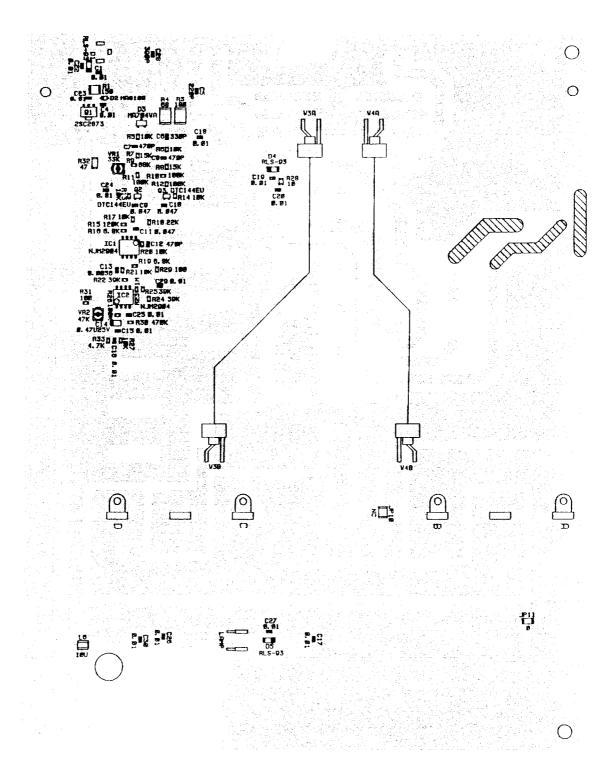
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#### PC Bord View for EDX-1

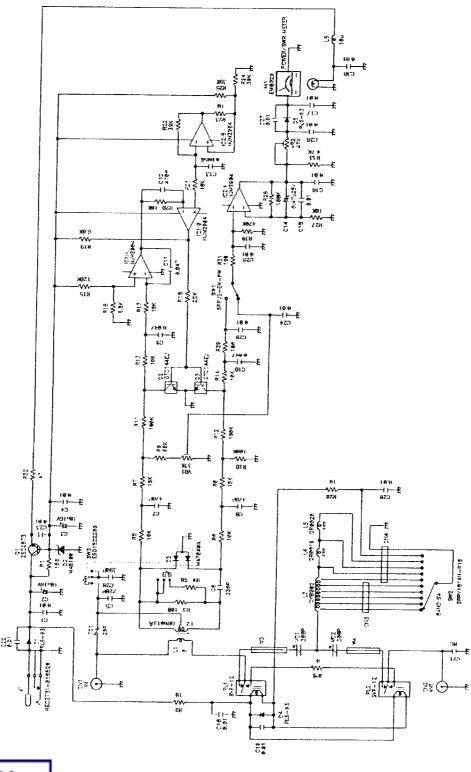
Side A



#### Side B



#### **Schematic Diagram for EDX-1**



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