



Model DX 979 Service Manual[©]



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DX 979

TABLE OF CONTENTS

		PAGE
CHA	PTER 1	
SPEC	IFICATIONS	
1.0	General	2
1.1	Transmitter	2
1.2	Receiver	2
СНА	PTER 2	
_	ATION	
2.0	Introduction	3
2.1	Control & Connections	3
2.2	Microphone	7
2.3	Operation	
2.4	Alternate Microphones And Installation	8
СНА	PTER 3	
	UIT DESCRIPTION	
3.0	Introduction	9
3.1	PLL Circuit	9
3.2	Receiver Circuit	9
3.3	Transmitter Modulation Circuit	9
3.4	Transmitter Amplifier Circuit	9
СПУ	PTER 4	
	NMENT	
4.0	Required Test Equipment	11
4.1	Alignment Procedures	11
СНА	PTER 5	
_	TENANCE	
5.0	Precautions	16
5.1	Periodic Inspection	16
5.2	Fuse Replacement	16
	•	
	PTER 6	
DIAG	RAMS AND PARTS LIST	
6.0	PCB Layout & Parts List	17

CHAPTER 1 SPECIFICATIONS

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Model DX 979 Channels 40

Frequency Range 26.965 – 27.405 MHz

Emission Modes AM/USB/LSB

Frequency Control Phase Lock Loop (PLL) synthesizer

 $\begin{array}{lll} \mbox{Frequency Tolerance} & 0.005 \ \% \\ \mbox{Frequency Stability} & 0.001 \ \% \\ \mbox{Operating Temperature Range} & -30^{\circ}\mbox{C to } +50^{\circ}\mbox{C} \\ \mbox{Microphone} & \mbox{Dynamic PTT, } 500 \ \Omega \end{array}$

Input Voltage 13.8V DC
Antenna Connector UHF; SO239

Dimensions 7 1/4"(W) x 9"(D) x 2 1/4"(H)

Weight 3.5 lbs.

1.1 TRANSMITTER

RF Power Output AM: 4W; USB/LSB: 12W PEP

RF Transmit Modes AM/SSB

Modulation High and Low level Class B, Amplitude Modulation:

AM and SSB.

Spurious Emissions - 60dB Carrier Suppression - 60dB

Audio Frequency Response 300 to 2500 Hz
Antenna Impedance 50 Ohms

Output Indicators Meter shows incoming signal strength, RF output

power, SWR and AM Modulation level. Transmit

LED glows red when transmitter is in operation.

1.2 RECEIVER

Sensitivity For 10dB S/N (AM/ SSB) AM: < 0.5 uV; USB/LSB: $< \overline{0.25 \text{ uV}}$ IF Frequency AM: 10.695 MHz 1st IF, 455 KHz 2nd IF

Image Rejection - 50dB Adjacent Channel Selectivity - 60dB

RF Gain Control

Automatic Gain Control (AGC) Figure Of Merit

Squelch

45dB adjustable for optimum signal reception
100mV for 10dB Change in Audio Output
Adjustable; threshold less than 0.5µV

Noise Blanker RF type

Audio Output Power 2.5W @ 10% THD
Audio Frequency Response 300 to 2500 Hz
Built-in Speaker 8 Ohms, 4 Watts
External Speaker (Not Supplied) 8 Ohms, 4 Watts

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

CHAPTER 2 OPERATION

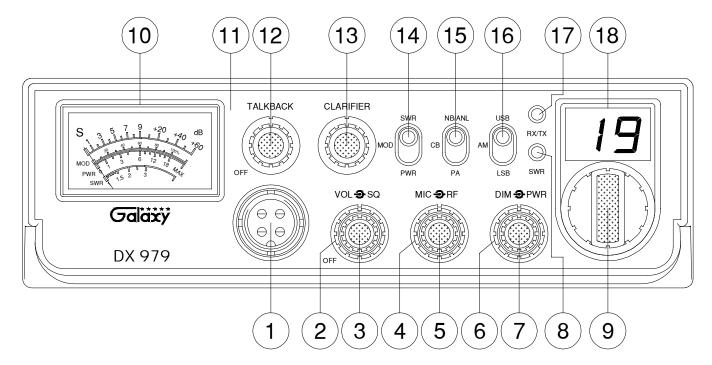


Figure 2-1 Front Panel

2.0 INTRODUCTION

This section explains the basic operating procedures for the DX 979 mobile CB radio.

2.1 CONTROLS AND CONNECTIONS

2.1.1 FRONT PANEL

Refer to the above Figure 2-1 for the location of the following controls.

- 1. MICROPHONE JACK: Used to connect microphone for voice source.
- 2. SQUELCH CONTROL: This knob is used to eliminate background noise being heard through the receiver, which can be disturbing when no transmissions are being heard through the receiver. To use this feature, turn the knob fully counterclockwise and then turn clockwise slowly until the background noise is just eliminated. Further clockwise rotation will increase the threshold level which a signal must overcome in order to be heard. Only strong signals will be heard at a maximum clockwise setting.
- **3. ON/OFF VOLUME CONTROL:** This knob controls the volume and power to the radio. To turn radio on, rotate the knob clockwise. Turning the knob further will increase the volume of the receiver.
- **4. RF GAIN CONTROL:** This control is used to reduce the gain of the RF (receive) amplifier under strong signal conditions.

- **5. MIC GAIN CONTROL:** Adjusts the microphone gain in the transmit and PA modes. This controls the gain to the extent that full talk power is available several inches away from the microphone. In the Public Address (PA) mode, the control functions as the volume control.
- **6. RF POWER CONTROL:** This control allows the user to adjust RF power output.
- **7. DIMMER CONTROL:** This knob controls the level of brightness for the faceplate lettering, meter lamp and channel display.
- **8. SWR LED:** This LED lights red when your SWR is higher than about 3:1. This is not an exact indicator of 3:1 SWR, but it is an indication that you should check your SWR reading.
- **9. CHANNEL SELECTOR:** This control is used to select the desired transmit and receive channel.
- **10. FRONT PANEL METER:** The front panel meter allows the user to monitor incoming signal strength, RF output power, SWR level and AM modulation level.
- **11.ILLUMINATED FACE PLATE:** All faceplate lettering will fully illuminate to allow the user easy viewing at night. This unique, solid state, backlight is designed to maximize night vision while minimizing eye fatigue. Therefore, it is ideal for switch and control recognition day or night.
- **12. TALKBACK CONTROL:** Adjust this knob for desired volume of Talkback. This is used to monitor your own voice. For example, you could use this feature to compare different microphones.
- **13. CLARIFIER CONTROL:** Allows tuning of the receive frequency above or below the channel frequency by up to 1.0KHz. Although this control is intended primarily to tune in SSB signals, it may be used to optimize AM signals.
- **14. SWR/MOD/PWR SWITCH:** This switch controls the function of the meter during the transmit mode. In the "SWR" position, the meter indicates the Standing Wave Ratio (SWR) of your antenna. There are no adjustments because the SWR circuit in this radio calibrates itself automatically. When the switch is in the "MOD" position, the green scale on the meter indicates your percentage of modulation in the AM mode only. They are most accurate when testing at maximum power output. When this switch is in "PWR" position, the meter indicates your power output.
- **15. NB-ANL/CB/PA SWITCH:** When the switch is in the NB/ANL position, the Noise Blanker (NB) and Automatic Noise Limiter (ANL) circuits are activated. The Noise Blanker is very effective in eliminating repetitive impulse noise such as ignition interference. In the CB position, the PA function is disabled and the radio will transmit and receive on the speaker that is connected. In the PA position, the radio acts as public address amplifier. Your voice will come out of the speaker that is plugged into the PA. SP. jack on the rear panel. The radio does not operate when you are in the PA mode.
- **16. MODE SWITCH:** This control allows you to select one of the following operating modes: AM/USB/LSB.
- 17. RX/TX LED: This LED is green during receive and red during transmit.
- **18. CHANNEL DISPLAY:** The channel display indicates the current selected channel.

REAR PANEL

Figure 2-2 represents the location of the following connections:

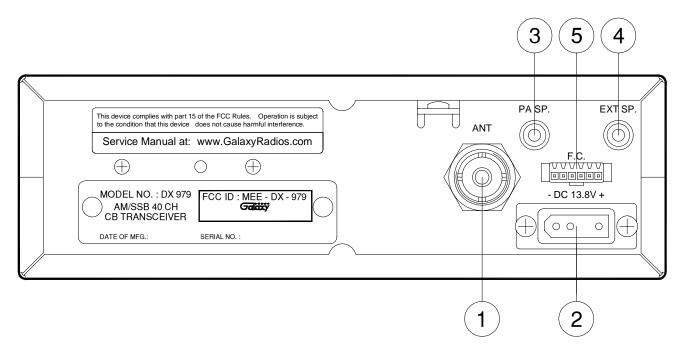


Figure 2-2 Rear Panel

- **1. ANTENNA:** This jack accepts a 50 ohm coaxial cable with a PL-259 type plug.
- **2. DC POWER:** This jack accepts the 13.8V DC power cable with built-in fuse. The power cord provided with the radio has a black and red wire. The black goes to negative and red goes to positive.
- **3. PA SP:** This jack is for PA operation. Before operating, you must first connect a PA speaker (8 ohms, 4W) to this jack.
- **4. EXT. SP:** This jack accepts a 4 to 8 ohm, 5 watt external speaker. When the external speaker is connected to this jack, the built-in speaker will be disabled.
- **5. F.C.:** This jack is used to connect the optional Galaxy FC347 six-digit frequency counter. All connections, including DC power, are provided to the FC347 through this jack.

2.1.3 FREQUENCY CHART

CHANNEL	CHANNEL FREQUENCY (MHz)	CHANNEL	CHANNEL FREQUENCY (MHz)
1	26.965	21	27.215
2	26.975	22	27.225
3	26.985	23	27.255
4	27.005	24	27.235
5	27.015	25	27.245
6	27.025	26	27.265
7	27.035	27	27.275
8	27.055	28	27.285
9	27.065	29	27.295
10	27.075	30	27.305
11	27.085	31	27.315
12	27.105	32	27.325
13	27.115	33	27.335
14	27.125	34	27.345
15	27.135	35	27.355
16	27.155	36	27.365
17	27.165	37	27.375
18	27.175	38	27.385
19	27.185	39	27.395
20	27.205	40	27.405

2.2 MICROPHONE

The receiver and transmitter are controlled by the push-to-talk switch on the microphone. Press the switch and the transmitter is activated, release the switch to receive. When transmitting, hold the microphone two inches from your mouth and speak clearly in a normal voice. The radio comes complete with a low impedance (500 ohm) dynamic microphone.

2.3 OPERATION

2.3.1 PROCEDURE TO RECEIVE

- 1. Be sure that the power source, microphone and antenna are connected to the proper connectors before going to the next step.
- 2. Press the **POWER** switch to apply power to the radio.
- 3. Set the **VOL** to a comfortable listening level.
- 4. Set the **MODE** switch to the desired mode.
- 5. Listen to the background noise from the speaker. Turn the **SQUELCH** knob slowly clockwise until the noise just disappears. The **SQUELCH** is now properly adjusted. The receiver will remain quiet until a signal is actually received. Do not advance the control too far or some of weaker signals will not be heard.
- 6. Set the **CHANNEL** selector switch to the desired channel.
- 7. Set the **RF GAIN** control fully clockwise for maximum RF gain.
- 8. Adjust the **CLARIFIER** control to clarify the SSB signals or to optimize AM signals.

2.3.2 PROCEDURE TO TRANSMIT

- 1. Select the desired channel of transmission
- 2. Set the MIC GAIN control fully clockwise.
- 3. If the channel is clear, depress the push-to-talk switch on the microphone and speak in a normal voice.

2.4 ALTERNATE MICROPHONES AND INSTALLATION

For best results, the user should select a low impedance dynamic type microphone or a transistorized microphone. Transistorized type microphones have a low output impedance characteristic. The microphones must be provided with a four-lead cable. The audio conductor and its shielded lead comprise two of the leads. The third lead is for transmit control and the fourth is for receiving control.

The microphone should provide the functions shown in the schematic below (Figure 2-3).

1	W	IRE	M	\mathbf{I}	$C\Lambda$	ΡI	\mathbf{F}
4	VV.	IKE	IVI	IC.	UΑ	DL	æ

Pin Number	Mic Cable Lead
1	Audio Shield
2	Audio Lead
3	Transmit Control
4	Receive Control

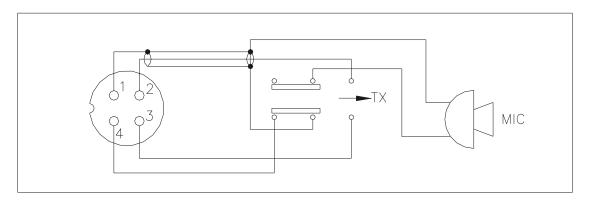


Figure 2-3 Your Transceiver Microphone Schematic

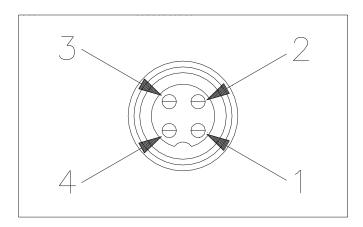


Figure 2-4 Microphone plug and pin numbers viewed from rear of pin receptacle.

DX 979



3.0 INTRODUCTION

This section explains the technical theory of operation for the DX 979 mobile CB radio.

3.1 PLL CIRCUIT

The Phase Lock Loop (PLL) circuit is responsible for developing the receiver's first local oscillator signal and the transmitter's exciter signal. The PLL circuit consists primarily of IC2, IC3, Q25, Q29 and Q28. The PLL circuit is programmed by the rotary channel switch GPS-668. The GPS-668 communicates the correct binary data information to the programmable divider inside of IC3. IC3 then controls the VCO (Voltage Controlled Oscillator) to oscillate on the correct frequency. This signal is fed either into the receiver's first mixer (for receive operation) or the transmitter's mixer (for transmit operation).

3.2 RECEIVER CIRCUIT

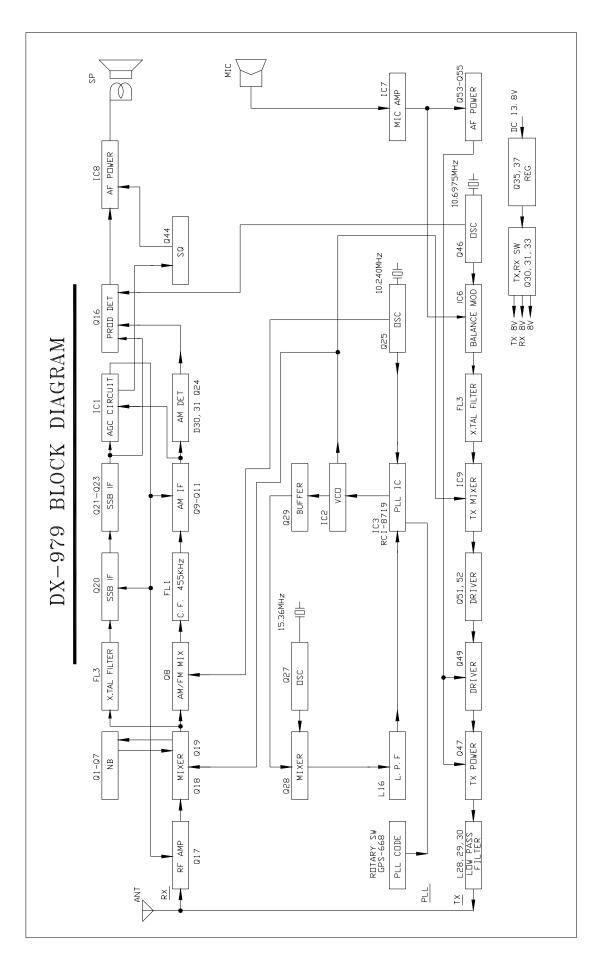
The incoming RF signal comes into the radio via the antenna and into the front-end pre-amp, Q17. The RF signal is fed into the mixer circuit of Q18/Q19 and then into the AM IF section of the receiver. The signal is then detected by the AM detector and then fed to the audio amplifier section of the receiver and finally out to the speaker.

3.3 TRANSMITTER MODULATION CIRCUIT

- (1) The transmitter modulation circuit modulates the low-level RF signal from the PLL exciter circuit with the user's audio voice signal from the microphone. The audio from the microphone is then amplified and fed into the transmit amplifier circuit.
- (2) If the transceiver is in the AM mode, the AF power amplifier modulates the last RF amplifier, which produces a true amplitude modulated RF signal.
- (3) If the transceiver is in the SSB mode, the audio signal is mixed with the 10.6975MHz oscillator in IC6.

3.4 TRANSMITTER AMPLIFIER CIRCUIT

The transmitter takes the basic exciter signal from IC9 of the TX mixer and amplifies it through a series of amplifiers consisting of Q52, Q51, Q49 and Q47 where it is sent out to the antenna connector.



CHAPTER 4 ALIGNMENT

4.0 REQUIRED TEST EQUIPMENT

- ① DC Power Supply (13.8VDC, 10A)
- ② RF Wattmeter (10W)
- 3 Multi-meter
- Automatic Modulation Meter
- (5) Audio Signal Generator

- © Frequency Counter (100 MHz)
- 7 RF Signal Generator (100 MHz)
- **8** Automatic Distortion Meter
- 9 Oscilloscope (50 MHz)
- Sinad Meter

4.1 ALIGNMENT PROCEDURES

This transceiver has been aligned at the factory and does not require any adjustments at installation. The required test equipment listed are used for the test setup or alignment shown in Figure 4-1 Transmitter Test Setup and Figure 4-2 Receiver Test Setup. These test setups are used in part or total during the following adjustments. Refer to page 15 for adjustment locations.

4.1.1 PLL ALIGNMENT

ITEM	U.U.T. SETTING	ADJUST POINT	MEASUREMENT
VCO	Disconnect 'short PCB' from TP7, TP8 and TP9. Set radio to CH 1 AM RX mode.		
	Connect Multi-meter to TP2.	L14	$2.5 \text{ VDC} \pm 0.1$
	Set CLARIFIER Control to 12 o'clock. Connect Oscilloscope to TP3.	L15	Adjust for max.
	Connect Frequency Counter to IC3 Pin 8.	VC1	$10.2400 \text{MHz} \pm 20 \text{Hz}$
AM Frequency	Set radio to CH 19 AM RX mode. Connect Frequency Counter to TP3.	L20	16.4900MHz ± 20Hz
USB Frequency	Set radio to CH 19 USB RX mode. Connect Frequency Counter to TP3.	L21	16.4925MHz ± 20Hz
LSB Frequency	Set radio to CH 19 LSB RX mode. Connect Frequency Counter to TP3.	L22	16.4875MHz ± 20Hz
TX Offset Frequency	Set radio to CH 19 LSB TX mode. Connect Frequency Counter to TP3.	VR7	16.4875MHz ± 20Hz
AM OSC	Set radio to CH 19 AM TX mode. Connect Frequency Counter to TP5.	L23	10.6950MHz ± 10Hz
USB OSC	Set radio to CH 19 USB TX mode. Connect Frequency Counter to TP5. Set VR6 fully clockwise	L24	10.6925MHz ± 10Hz
LSB OSC	Set radio to CH 19 LSB TX mode.Connect Frequency Counter to TP5. Set VR6 back to mid position when finished.	L25	10.6975MHz ± 10Hz

4.1.2 TRANSMITTER ALIGNMENT

ITEM	U.U.T. SETTING	ADJUST POINT	MEASUREMENT
BIAS Current	Set radio to CH 19 USB TX mode.		
	Modulation Off.		
	Remove "short PCB" from TP7, TP8, TP9.		
	Connect current meter to TP7(+) and TP9 (-)	VR12	50 mA
	Connect current meter to TP7(+) and TP8 (-)	VR10	100 mA
SSB APC	Set radio to CH 19 USB RX mode.	VR17	12.5 VDC
	Connect Multi-meter to TP7.		
SSB TX Power	Connect "short PCB" to TP7 and TP9.	L40,L42,	MAX > 12W
	Connect RF Power Meter to antenna jack.	L43,L44	Spurious Emission
	Set radio to CH 19 USB TX mode.		Minimum.
	AF signal 30mV, 1 KHz to microphone.		Balance Power
	Set RF PWR fully clockwise.		Between CH1 and
	Set MIC GAIN fully clockwise.		CH40.
SSB ALC	Set radio to CH 19 USB TX mode.		
	AF signal 30mV, 1 KHz to microphone.	VR13	11.5 W
SSB Carrier	Set radio to CH 19 USB TX mode.		
Balance	Set MIC GAIN fully counter-clockwise.	VR6	Spurious Emission to
	Connect Oscilloscope to antenna connector.		Minimum.
AM TX	Set radio to CH 19 AM TX mode.		
High Power	Modulation Off.	VR14	3.8 W
	Set RF POWER fully clockwise.		
AM TX	Set RF POWER fully counterclockwise.	VR18	0.3W±0.2W
Low Power			
RF Power	Set radio to CH 19 AM TX mode.		For a needle reading
Meter	Set RF POWER fully clockwise.		of "4" on TX PWR
	Set SWR/MOD/PWR Switch to PWR	VR9	scale.
	position.		
AM Modulation	Set radio to CH 19 AM TX mode.		For a needle reading
	AF signal 30mV, 1 KHz to microphone.	VR16	of 95% on the
	Set MIC Gain fully clockwise.		external modulation
	Set SWR/MOD/PWR Switch to MOD position		meter.
AM Modulation		VR15	For a needle reading
Meter	AF signal 30mV, 1 KHz to microphone.		of 95% on the
	Set MIC Gain fully clockwise.		modulation scale.

4.1.3 RECEIVER ALIGNMENT

ITEM	U.U.T. SETTING	ADJUST POINT	MEASUREMENT
AM Sensitivity	Set radio to CH 19 AM RX mode. Set RF GAIN Fully Clockwise. Set SQ Fully Counter Clockwise. Set VOL Control at 2 o'clock. Set NB/ANL switch to OFF position. Set CLARIFIER Control to 12 o'clock. Connect RF SG to antenna jack Frequency 27.185 MHz, 1uV. Mod 30%.	L2,L3,L5,L6, L7,L8,L9,L10	Audio Output > 2V S/N > 10 dB.
	Set radio to CH 40 AM RX mode. RF SG setting 27.405 MHz. Set radio to CH 1 AM RX mode. RF SG setting 26.965 MHz.	L5,L6	For Balance Between CH 1 and CH 40.
USB Sensitivity	Set radio to CH19 USB RX mode. Set VOL Control Fully Clockwise. RF SG setting 27.186 MHz, 0.5uV. Mod off.	L11,L12	Audio Output > 2V S/N > 10dB.
LSB Sensitivity	Set radio to CH19 LSB RX mode. Set VOL Control Fully Clockwise. RF SG setting 27.184 MHz, 0.5uV. Mod off.	L11,L12	Audio Output > 2V S/N >10dB.
NB Adjust	Set radio to CH 18 AM RX mode RF SG setting 27.185 MHz, 1000uV. Mod off. Set NB/OFF switch to ON position. Connect Multi-meter to TP1 (D2 cathode).	L1	DC Voltage to max. (> 2.0V)
AM Squelch	Set radio to CH 19 AM RX mode. Set SQ Control Fully Clockwise. RF SG setting 27.185 MHz, 20mV. Mod 30%.	VR4	Adjust very slowly until squelch just closes.
SSB Squelch	Set radio to CH 19 USB RX mode. Set SQ Control Fully Clockwise. RF SG setting 27.186 MHz, 20 mV. Mod off.	VR3	Adjust very slowly until squelch just closes
AM S-Meter	Set radio to CH 19 AM RX mode. RF SG setting 27.185 MHz, 100uV. Mod 30%.	VR1	For a reading of "9" on the "S" scale.
SSB S-Meter	Set radio to CH 19 USB RX mode. RF SG setting 27.186 MHz, 100uV. Mod off.	VR2	For a reading of "9" on the "S" scale

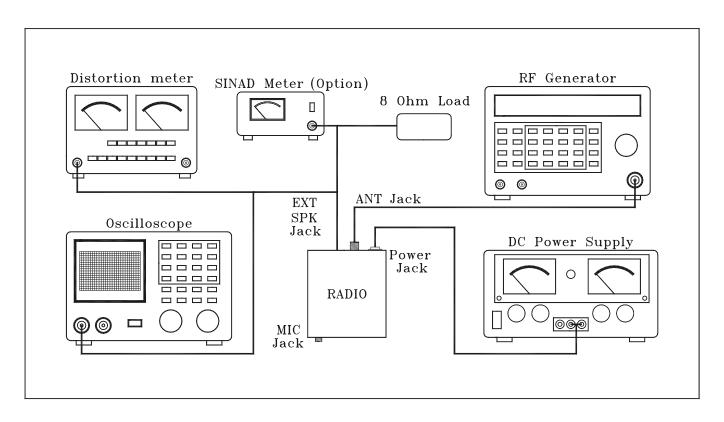


Figure 4-1 Transmitter test setup

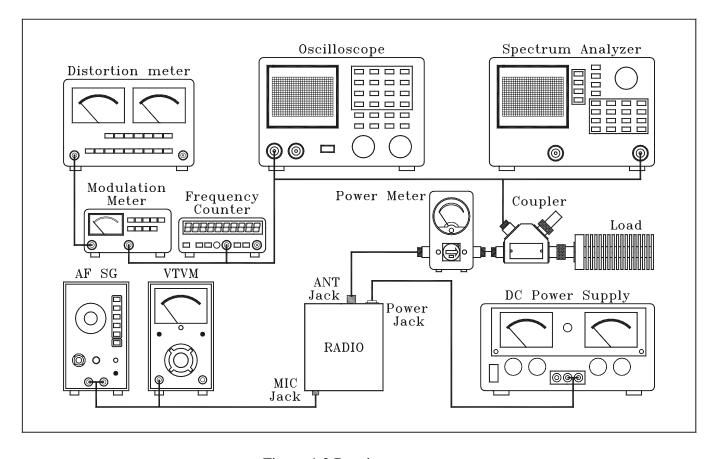
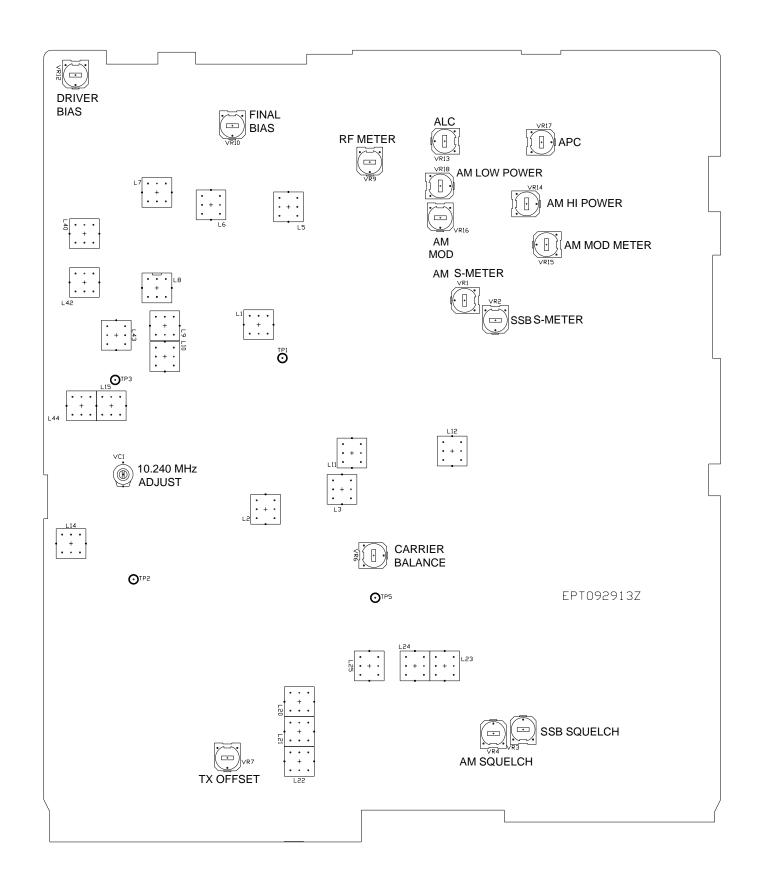


Figure 4-2 Receiver test setup

DX 979 MAIN PCB ADJUSTMENT LOCATION





5.0 PRECAUTIONS

The inherent quality of the solid-state components used in this transceiver will provide many years of continuous use. Taking the following precautions will prevent damage to the transceiver.

- (i) Never key the transmitter unless an antenna or suitable dummy load is connected to the antenna receptacle.
- (ii) Ensure that the input voltage does not exceed 16 VDC or fall below 11.
- (iii) Transmitting over long periods can cause heat built-up and cause transmitter damage.

5.1 PERIODIC INSPECTION

This unit is aligned at the factory to deliver maximum performance. However, continued performance cannot be expected without periodic inspection and maintenance. Important points to be checked regularly are as follows;

Check Item	Action
Whip antenna (option)	If cracked or broken, replace it.
Coaxial cable	If sheath is cracked or immersed in water, install new coaxial cable.
Coaxial & power plug connections	If loosened, reconnect. If corroded, clean contacts.
Battery connection	If corroded, clean power terminals.
Ground terminal	If corroded, clean terminal.

5.2 FUSE REPLACEMENT

To protect the equipment from serious damage, a fuse is provided on the power supply lines. The fuse protects against over voltage / reverse polarity or internal fault of the equipment. If the fuse has blown, first find out the cause of the trouble before replacing it. A fuse rated for more than the transceiver requirement should not be used, since it may permanently damage the equipment. Damage due to over fusing is not covered by the warranty.

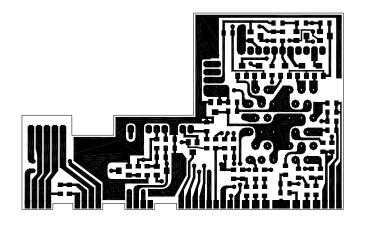
DX 979

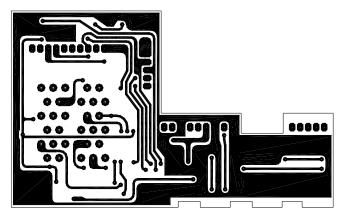
CHAPTER 6
DIAGRAMS &
PARTS LIST

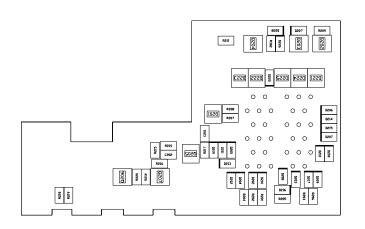
6.0 GENERAL

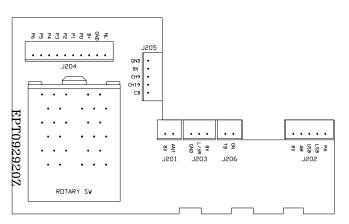
Information on most electrical and mechanical parts is included in the parts list. The reference designators are in alphanumeric order.

DX 979 ROTARY SWITCH PCB (EPT092920Z)









(SMD-COPPER SIDE)

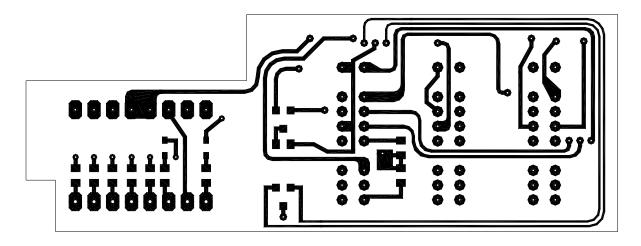
(COMPONENT SIDE)

PART LIST:

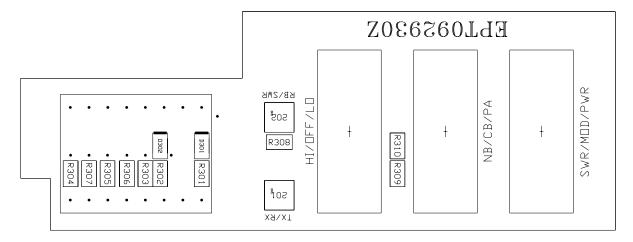
DX 979 ROTARY SW. P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT092920Z	ROTARY SW PCB
2	R207,R210,R218	RCY010004Z	CHIP/F/R 0.0 Ω 0.1W
3	R201	RCY013314Z	CHIP/F/R 330 Ω 0.1W
4	R202,R203,R204,R205, R206	RCY016814Z	CHIP/F/R 680 Ω 0.1W
5	R215	RCY014724Z	CHIP/F/R 4.7K Ω 0.1W
6	R221	RCY016824Z	CHIP/F/R 6.8K Ω 0.1W
7	R214	RCY012234Z	CHIP/F/R 22K Ω 0.1W
8	R220	RCY016834Z	CHIP/F/R 68K Ω 0.1W
9	C201,C202	CK1104AB5X	CHIP/C 0.1uF 50WV
10	D201,D202,D203,D204, D205,D206,D207,D208, D209,D210,D211,D212, D13,D214,D215,D216,D 217,D218,D219,D220,D 226,D227,D228	EDSS00355Y	DIODE (S.M.D.) 1SS355
11	D221,D222,D223,D224, D225	EDSS00181Y	DIODE (S.M.D.) 1SS181-TE85L
12	Q207	TY2SC2712G	TR 2SC2712GR-TE85L
13	Q201,Q202,Q203,Q204, Q206	TYZRN1403Z	TR RN1403-TE85L
14	Q205	TYZRN2403Z	TR RN2403-TE85L
15	J201,J206	EX07N48223	PCB CONN/S 2 PIN
16	J203	EX07N48350	PCB CONN/S 3 PIN
17	J202	EX07N48222	PCB CONN/S 5 PIN
18	J204	EX07N48209	PCB CONN/S 10 PIN
19	ROTARY SW	EWRT32059S	ROTARY SW GPS-0668
20	J205	WX01070710	JUMPER WIRE

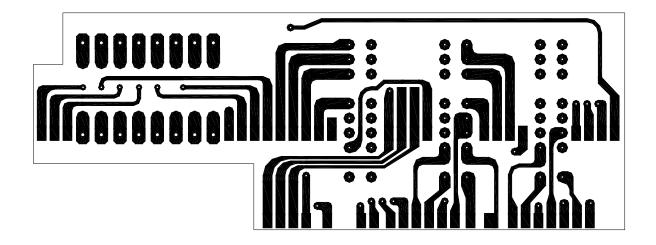
DX 979 DISPLAY PCB (EPT092930Z)



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(COMPONENT SIDE)



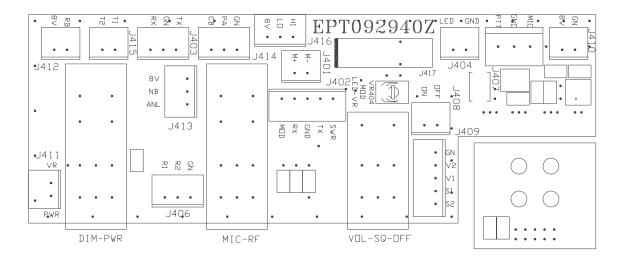
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PART LIST:

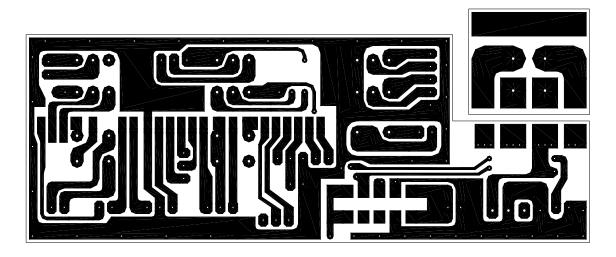
DX 979 DISPLAY P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT092930Z	DISPLAY PCB
2	R301,R302,R303,R304,	RCY016814Z	CHIP/F/R 680 Ω 0.1W
	R305,R306,R307		
3	R308	RCY011024Z	CHIP/F/R 1K Ω 0.1W
4	D301,D302	EDSS00355Y	DIODE 1SS355
5	LED201,LED202	EX01Y40114	LED LAMPS KM-23ESGC
6	DISPLAY	EX03N40419	LED DISPLAY TX-566
7	HI/OFF/LO,NB/CB/PA,	EWSL31027K	SLIDE SW. 3N
	SWR/MOD/PWR		

DX 979 (DIM-PWR/MIC-RF/VOL-SQ CONTROL) VR PCB (EPT092940Z)



(COMPONENT SIDE)

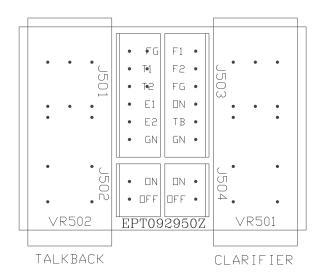


(COPPER SIDE)

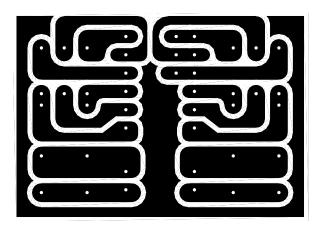
PART LIST:DX 979 DIM-PWR/MIC-RF/VOL-SQ CONTROL, VR P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT092940Z	VR PCB
2	R402	RCY016824Z	CHIP/F/R 6.8K Ω 0.1W
3	R401	RCY011034Z	CHIP/F/R 10K Ω 0.1W
4	C401,C402	CK1102AB5X	CHIP/C .001uF 50VW
5	C403,C404	CK1103AB5X	CHIP/C .01uF 50VW
6	VR404	RE102Y0128	CHIP/F/R 1K (TMC3KJ)
7	L402	YCTLI5653C	CHOKE COIL 5.6uH
8	L401	YCBAD18581	BEAD FERRITE COIL WB-403025
9	Q902	TYDTA124EA	T/R DTA124EUAT106
10	(VR401)VOL-SQ-OFF	RV50303522	V/R 50KB/50KA W/SW
11	MIC-RF	RV10203524	V/R 1KB/1KA
12	DIM-PWR	RV50203539	VR 5KB/5KB
13	J401,J408,J410,J411,	EX07N48223	PCB CONN/S 2PIN
14	J403,J405,J413	EX07N48350	PCB CONN/S 3PIN
15	J406,J414	EX07W48824	PCB CONN/S 3PIN
16	J407	EX07N41216	PCB CONN/S 3PIN
17	J402	EX07N48222	PCB CONN/S 5PIN
18	J409	EX07W48826	PCB CONN/S 5PIN

DX 979 (TALKBACK/CLARIFIER CONTROL) VR PCB (EPT092950Z)



(COMPONENT SIDE)



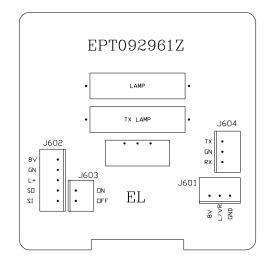
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PART LIST:

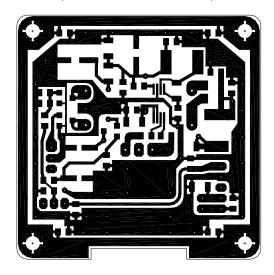
DX 979 TALKBACK/CLARIFIER CONTROL, VR P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT092950Z	TB PCB
2	VR501 (CLARIFIER)	RV10203528	VR 1KB
3	VR502 (TALKBACK)	RV20203558	VR 20KB/SW
4	J501	EX07N48331	PCB CONN/S 6 PIN
5	J503	EX07N48350	PCB CONN/S 3 PIN

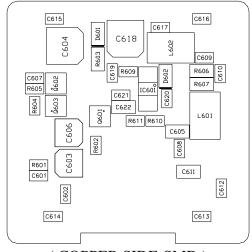
DX 979 METER PCB (EPT092961Z)



(COMPONENT SIDE)



(COPPER SIDE)



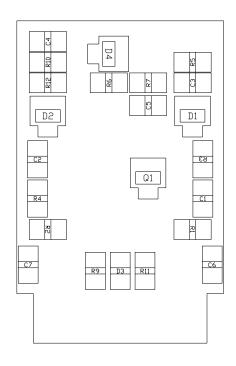
(COPPER SIDE-SMD)

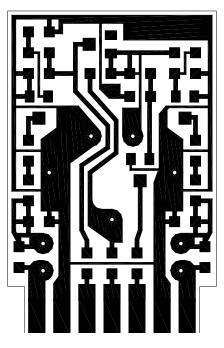
DX 979 METER PCB (Dimmer Circuit)

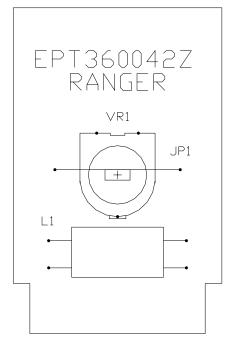
PART LIST:

ITEM	REFERENCE	RANGER PART	DESCRIPTION
	NUMBER	NUMBER	
1		EPT092961Z	METER PCB
2	R603	RCY011504Z	CHIP/F/R 15 Ω 0.1W
3	R606,R607	RCY144704Z	CHIP/F/R 47 Ω 1/4W
4	R610	RCY011024Z	CHIP/F/R 1KΩ 0.1W
5	R605	RCY013324Z	CHIP/F/R 3.3KΩ 0.1W
6	R604,R611	RCY011034Z	CHIP/F/R 10KΩ 0.1W
7	R601	RCY011234Z	CHIP/F/R 12KΩ 0.1W
8	R602	RCY014734Z	CHIP/F/R 47KΩ 0.1W
9	R609	RCY011844Z	CHIP/F/R 180KΩ 0.1W
10	C602,C609	CK1103AB5X	CHIP/C 0.01uF 50WV
11	C601,C607,C608,C610,	CK1104AB5X	CHIP/C 0.1uF 50WV
	C612,C620		
12	C619,613,614,615,616	CK5105AB7R	CHIP/C 1uF 16WV
13	C621	CK1473AB5X	CHIP/C 0.047uF 50WV
14	C617	CK2474AB7R	CHIP/C 0.47uF 25WV
15	C605,611	CK5475AA7R	CHIP/C 4.7uF 16WV
16	C622	CTY161066A	T/C 10uF 16WV
17	C603,C606	CEY164767Z	E/C 47uF 16WV
18	C604,C618	CEY251077Z	E/C 100uF 25WV
19	IC601	YNSN8144BV	I.C. SM8144BV
20	D601	EDZD05519Y	ZENER DIODE RLZ5.1BT6-11
21	D602	ED1N04148Y	DIODE 1N4148
22	Q601,602	TY2SC2712G	T/R 2SC2712GR
23	Q603	TYDTC124EA	T/R DTC124EUAT106
24	L602	YCTLI2274E	CHOKE COIL 220uH
25	L601	YCTLI4774E	CHOKE COIL 470uH
26	LAMP	EX02N40230	LAMP 0.05 12V
27	EL(SH3024)	EX07N49373	PCB CONN/S 3 PIN
28	J603	EX07N48223	PCB CONN/S 2 PIN
29	J601	EX07N48350	PCB CONN/S 3 PIN
30	J602	EX07N48222	PCB CONN/S 5 PIN

DX 979 ANTENNA PCB (EPT360042Z)







(COPPER SIDE-SMD)

(COPPER SIDE)

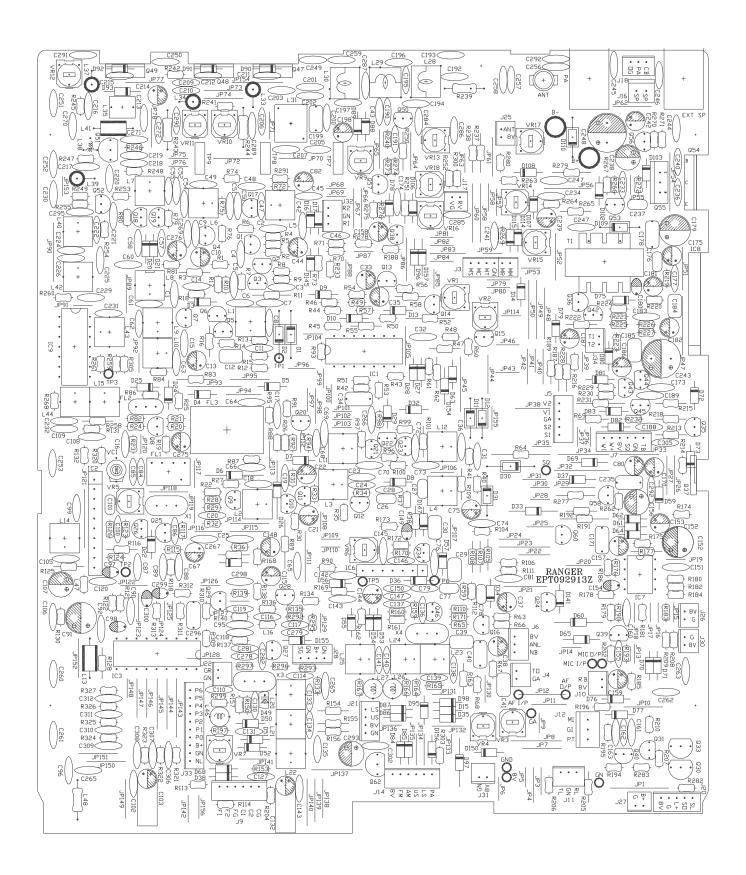
(COMPONENT SIDE)

PART LIST:

DX 979 ANT P.C.B

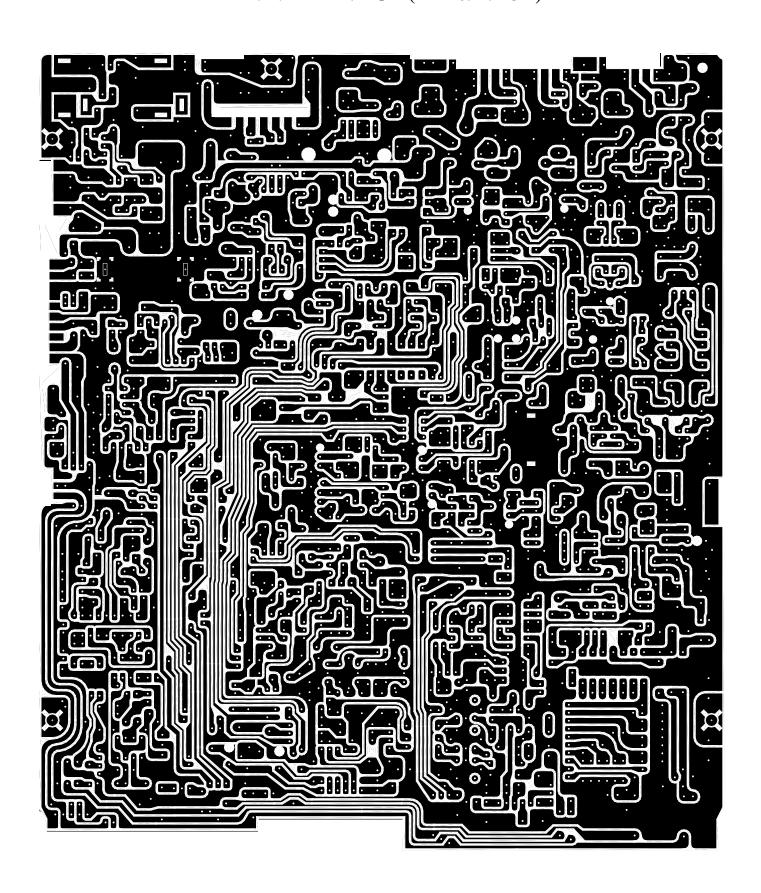
ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT360042Z	ANT P.C.B
2	R9	RCY010004Z	0 OHM 0.1W
3	R1	RCY014714Z	470 OHM 0.1W
4	R3,R4	RCY011014Z	100 OHM 0.1W
5	R2	RCY013314Z	330 OHM 0.1W
6	R5,R11	RCY011024Z	1K OHM 0.1W
7	R10,R12	RCY012224Z	2.2K OHM 0.1W
8	R7,C5	RCY011034Z	10K OHM 0.1W
9	C7	CK1059AB1A	0.5PF 50WV
10	C6	CK1030AB1A	3PF 50WV
11	C3,C4	CK2104AB7R	0.1uF 25WV
12	C1,C2	CK1103AB7L	0.001uF 50WV
13	Q1	TY2SC2712G	TR 2SC2712GR
14	D3	EDSS00355Y	DIODE 1SS355
15	D1,D2	EDHM0198SY	DIODE HSM198S
16	D4	EDMA0028TY	DIODE MA28T
17	L1	ECRFZ10053	RF COIL C3RH0610
18	VR1	RE10300009	S/F/R 10K OHM
19	JP1	WX01070715	JUMPER WIRE

DX 979 MAIN PCB (EPT092913Z)



(COMPONENTS SIDE)

DX 979 MAIN PCB (EPT092913Z)



PART LIST DX 979 MAIN PCB

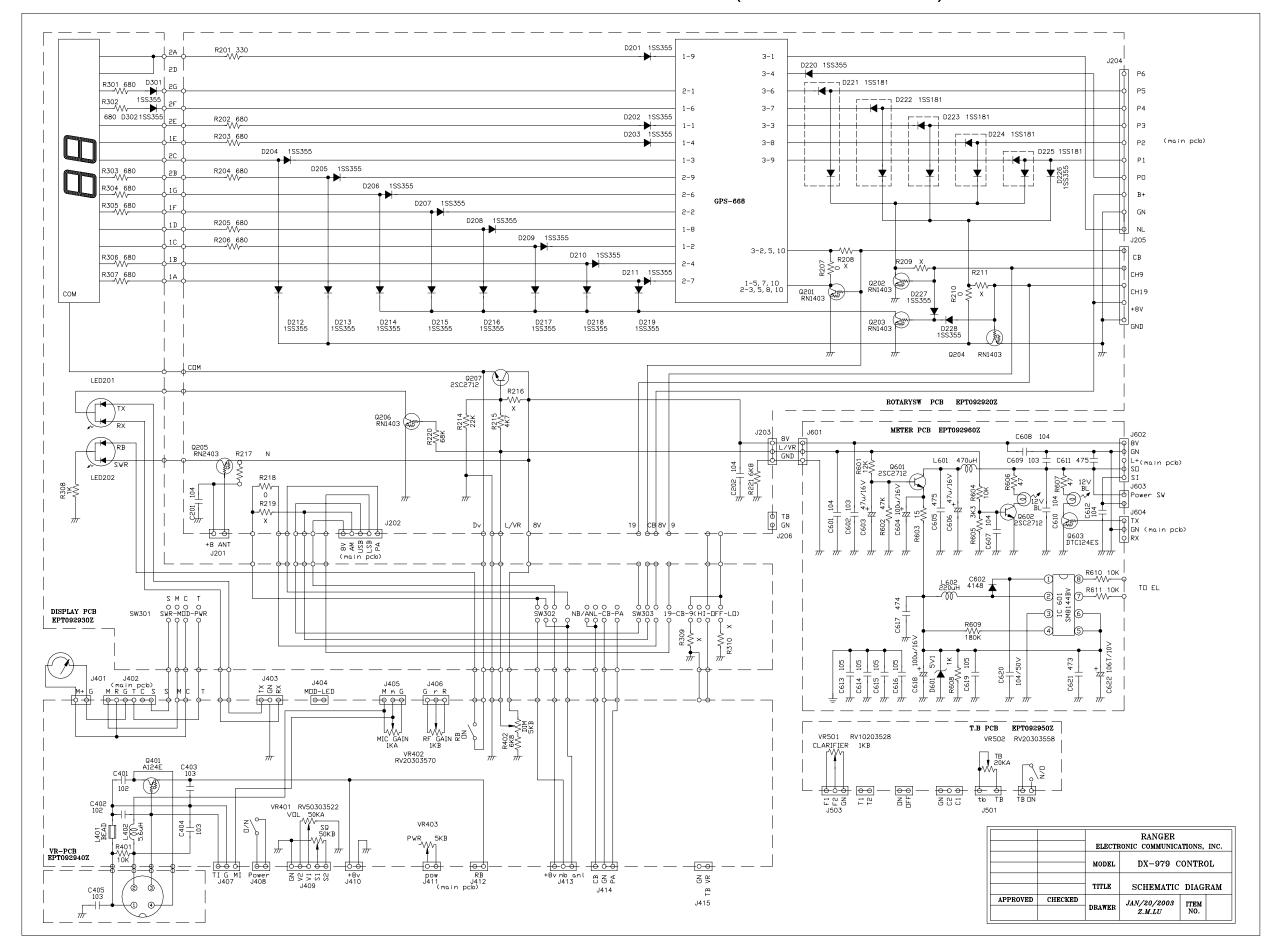
NUMBER	DX 373 MAIN	OD	
EPT120060A DCB+ PCB R19,305,258(B239) RCP160004Z 0 Ω 1/16W R267 RCP161004Z 150 Ω 1/16W R267 RCP161504Z 150 Ω 1/16W R267 RCP161504Z 150 Ω 1/16W R213,213,253,282,113 RCP164704Z 47 Ω 1/16W R133,213,253,282,113 RCP164704Z 47 Ω 1/16W R130,215,220,249 RCP165604Z 55 Ω 1/16W R5,8,30,33,76,81,174,260,263 RCP161014Z 100 Ω 1/16W R5,8,30,33,76,81,174,260,263 RCP161014Z 100 Ω 1/16W R5,8,30,33,76,81,174,260,263 RCP161014Z 100 Ω 1/16W R5,8,30,33,76,81,174,260,263 RCP16114Z 150 Ω 1/16W R5,8,30,33,76,81,174,260,263 RCP16114Z 150 Ω 1/16W R323 RCP161814Z 150 Ω 1/16W R23 RCP161814Z 150 Ω 1/16W R23 RCP161814Z 150 Ω 1/16W R31,99 RCP162714Z 220 Ω 1/16W R31,99 RCP162714Z 270 Ω 1/16W R31,99 RCP162714Z 270 Ω 1/16W R31,99 RCP163314Z 330 Ω 1/16W R4,50,209,89,94 RCP166314Z 470 Ω 1/16W R5,8,30,31,54,155,156 RCP164714Z 470 Ω 1/16W R62,64,67,72,115,116,118 RCP166814Z 680 Ω 1/16W R74 RCP168214Z 820 Ω 1/16W R62,64,67,72,115,116,118 RCP161024Z 1K Ω 1/16W R62,64,67,72,115,116,118 RCP161024Z 1K Ω 1/16W R62,64,67,72,115,116,118 RCP161024Z 1.5K Ω 1/16W R62,64,67,72,115,116,118 RCP161024Z 1.5K Ω 1/16W R62,64,67,72,115,116,118 RCP161024Z 1.5K Ω 1/16W R62,64,67,72,115,116,118 RCP161524Z 2.2K Ω 1/16W R62,64,67,72,115,116,118 RCP161524Z 2.2K Ω 1/16W R62,64,67,72,115,116,118 RCP161524Z 2.2K Ω 1/16W R62,64,67,72,115,116,118 RCP16324Z 2.2K Ω 1/16W R62,64,67,72,115,116,118 RCP16324Z 2.2K Ω 1/16W R62,64,67,72,115,116,118 RCP16324Z 2.2K Ω 1/16W R62,64,67,73,128 RCP166324Z 3.9K Ω 1/16W R62,64,67,73,128 RCP166324Z 3.9K Ω 1/16W R62,64,67,73,128 RCP166324Z 3.9K Ω 1/16W R62,64,265,83,92 RCP166324Z 3.9K Ω 1/16W R64,265,83,92 RCP166334Z 39K Ω 1/16W R64,265,83,92 RCP166334Z 39K Ω 1/16W R			DESCRIPTION
R246 RCP160004Z 0 Ω 1/16W R246 RCP161004Z 10 Ω 1/16W R267 RCP161504Z 150 Ω 1/16W R267 RCP161504Z 150 Ω 1/16W R130,215,220,249 RCP165604Z 56 Ω 1/16W R133,213,253,282,113 RCP164704Z 47 Ω 1/16W R133,0133,76,81,174,260,263 RCP161014Z 30 Ω 1/16W R5.8,30,33,76,81,174,260,263 RCP16114Z 100 Ω 1/16W R5.8,30,33,76,81,174,260,263 RCP16114Z 100 Ω 1/16W R5.8,30,33,76,81,174,260,263 RCP16114Z 150 Ω 1/16W R5.8,30,33,76,81,174,260,263 RCP161814Z 150 Ω 1/16W R23 RCP161814Z 270 Ω 1/16W R140,163,177,259(B239) RCP162214Z 220 Ω 1/16W R140,163,177,259(B239) RCP162714Z 270 Ω 1/16W R18,8268,293,154,155,156 RCP164714Z 270 Ω 1/16W R610,16,24,248,254,300,299 RCP163314Z 330 Ω 1/16W R18,8268,293,154,155,156 RCP164714Z 270 Ω 1/16W R18,8266 RCP165614Z 560 Ω 1/16W R4,50,209,89,94 RCP166814Z 560 Ω 1/16W R62,64,67,72,115,116,118 RCP161024Z 1K Ω 1/16W R22,123,136-138,160,164 122,123,136-138,160,164 122,123,136-138,160,164 129,123,139,214,205,206,214 303,232,237,238,261,269,291 292,295,98,166,167,320 1292,295,98,166,167,320 1292,295,98,166,167,320 1292,292,295,98,166,167,320 1292,292,295,98,166,167,320 1292,292,295,98,166,167,320 1292,292,292,295,28,121 RCP16324Z 1.8K Ω 1/16W 1292,274,73,252,60,110 171 RS2,57 RCP16324Z 2.7K Ω 1/16W R26,84,165,190,195,196,131 RCP16324Z 3.9K Ω 1/16W R26,84,165,190,195,196,131 RCP16324Z 3.9K Ω 1/16W R26,64,265,83,92 RCP16324Z 3.9K Ω 1/16W R26,62,272,202,568,6173 RCP16334Z 33K Ω 1/16W R26,62,273,128 RCP166334Z 38K Ω 1/16W R17,80,93,11 RCP16334Z 38K Ω 1/16W R17,90,1,61,61,61,75 RCP162244Z 22K Ω 1/16W R17,208,91,109 RCP162234Z 22K Ω 1/16W R17,208,91,109 RCP162234Z 22K Ω 1/16W R17,108,113,177,65,68,159,161,175 RCP16334Z 38K Ω 1/16W R17,108,113 RCP164734Z 39K Ω 1/16W R17,108,11		EPT092913Z	MAIN PCB
R246 RCP161004Z 10 Ω 1/16W R267 RCP161504Z 150 Ω 1/16W V241 RCP162204Z 220 Ω 1/16W R133,213,253,282,113 RCP164704Z 47 Ω 1/16W R133,213,253,282,113 RCP166804Z 56 Ω 1/16W R11,101 RCP166804Z 56 Ω 1/16W R5,8,30,33,76,81,174,260,263 RCP161014Z 100 Ω 1/16W R32,100,245 RCP161514Z 150 Ω 1/16W R32,100,245 RCP161814Z 180 Ω 1/16W R32,100,245 RCP161814Z 180 Ω 1/16W R140,163,177,259(B239) RCP162214Z 220 Ω 1/16W R31,99 RCP162714Z 270 Ω 1/16W R188,268,293,154,155,156, RCP164714Z 330 Ω 1/16W R188,268,293,154,155,156, RCP164714Z 330 Ω 1/16W R74 RCP166814Z 680 Ω 1/16W R74 RCP166814Z 820 Ω 1/16W R74 RCP166814Z 820 Ω 1/16W R74 RCP168214Z 18 Ω 1/16W R74 RCP168214Z 18 Ω 1/16W R132,207,233,247,		EPT120060A	DCB+ PCB
R246 RCP161004Z 10 Ω 1/16W R267 RCP161504Z 150 Ω 1/16W V241 RCP162204Z 220 Ω 1/16W R133,213,253,282,113 RCP164704Z 47 Ω 1/16W R133,213,253,282,113 RCP166804Z 56 Ω 1/16W R11,101 RCP166804Z 56 Ω 1/16W R5,8,30,33,76,81,174,260,263 RCP161014Z 100 Ω 1/16W R32,100,245 RCP161514Z 150 Ω 1/16W R32,100,245 RCP161814Z 180 Ω 1/16W R32,100,245 RCP161814Z 180 Ω 1/16W R140,163,177,259(B239) RCP162214Z 220 Ω 1/16W R31,99 RCP162714Z 270 Ω 1/16W R188,268,293,154,155,156, RCP164714Z 330 Ω 1/16W R188,268,293,154,155,156, RCP164714Z 330 Ω 1/16W R74 RCP166814Z 680 Ω 1/16W R74 RCP166814Z 820 Ω 1/16W R74 RCP166814Z 820 Ω 1/16W R74 RCP168214Z 18 Ω 1/16W R74 RCP168214Z 18 Ω 1/16W R132,207,233,247,	R19,305,258(B239)	RCP160004Z	0 Ω 1/16W
RCP162204Z 220 Ω 1/16W R133,213,253,282,113 RCP164704Z 47 Ω 1/16W R133,213,253,282,113 RCP165604Z 56 Ω 1/16W R11,101 RCP166804Z 68 Ω 1/16W R18,83,01,33,76,81,174,260,263 RCP161014Z 100 Ω 1/16W R3,83,01,33,76,81,174,260,263 RCP161014Z 100 Ω 1/16W R3,830,33,76,81,174,260,263 RCP16114Z 150 Ω 1/16W R18,226,100,245 RCP161814Z 150 Ω 1/16W R182,100,245 RCP161814Z 150 Ω 1/16W R184,01,63,177,259(B239) RCP162214Z 220 Ω 1/16W R184,061,01,624,248,254,300,299 RCP162714Z 270 Ω 1/16W R6,10,16,24,248,254,300,299 RCP163314Z 330 Ω 1/16W R188,268,293,154,155,156 RCP164714Z 470 Ω 1/16W R188,268,293,154,155,156 RCP164714Z 470 Ω 1/16W R188,268,293,154,155,156 RCP166814Z 820 Ω 1/16W R4,50,209,89,94 RCP166814Z 820 Ω 1/16W R74 RCP166814Z 820 Ω 1/16W R75 RCP161524Z 1.5K Ω 1/16W R18,22,64,772,115,116,118 RCP161024Z 1.5K Ω 1/16W R18,22,65,73,281,79,80,54,87,97 R226 RCP161824Z 1.5K Ω 1/16W R20,27,71,75,134 RCP16224Z 2.2K Ω 1/16W R18,22,66,73,128 RCP161824Z 3.3K Ω 1/16W R20,27,71,75,134 RCP16224Z 2.2K Ω 1/16W R20,27,71,75,134 RCP16224Z 3.3K Ω 1/16W R21,29,274,73,252,60,110 R11 RCP162724Z 3.9K Ω 1/16W R26,84,165,190,195,196,131 RCP163324Z 3.9K Ω 1/16W R26,84,265,83,92 RCP165624Z 3.9K Ω 1/16W R26,84,165,190,195,196,131 RCP16334Z 3.8K Ω 1/16W R27,29,61,63,185,218,126,157 RCP16334Z 3.9K Ω 1/16W R27,29,61,63,185,218,126,157 RCP16334Z 3.9K Ω 1/16W R27,29,61,63,185,218,126,157 RCP166334Z 3.9K Ω 1/16W R21,105,107 RCP16234Z 3.9K Ω 1/16W R21,105,107 RCP163334Z 3.9K Ω 1/16W R21,105,107 RCP166334Z 3.9K Ω 1/16W R22,202,204,96,150 RCP16234Z 3.9K Ω 1/16W R246 RCP16334Z 3.9K Ω 1/16W R25,107,107 RCP16334Z 3.9K Ω 1/16W R26,107,107 RCP16334Z 3.9K Ω 1/16W R27,29,61,63,185,218,126,157 RCP164734Z 3.9	R246	RCP161004Z	
241 RCP162204Z 20 Ω 1/16W R133,213,253,282,113 RCP164704Z 47 Ω 1/16W R130,215,220,249 RCP165604Z 56 Ω 1/16W R11,101 RCP166804Z 68 Ω 1/16W R5.8,30,33,76,81,174,260,263 RCP161014Z 100 Ω 1/16W R5.8,30,33,76,81,174,260,263 RCP161014Z 100 Ω 1/16W R5.8,30,33,76,81,174,260,263 RCP161014Z 100 Ω 1/16W R5.8,30,33,76,81,174,260,263 RCP16114Z 150 Ω 1/16W R5.8,30,33,76,81,174,260,263 RCP16114Z 150 Ω 1/16W R23 RCP1618,14Z 150 Ω 1/16W R23 RCP1618,14Z 150 Ω 1/16W R23 RCP1618,14Z 270 Ω 1/16W R140,163,177,259(B239) RCP162214Z 220 Ω 1/16W R140,163,177,259(B239) RCP162714Z 270 Ω 1/16W R6,10,16,24,248,254,300,299 RCP163314Z 330 Ω 1/16W R188,268,293,154,155,156, RCP164714Z 470 Ω 1/16W R188,268,293,154,155,156, RCP164714Z 470 Ω 1/16W R188,268,293,154,155,156, RCP166814Z 820 Ω 1/16W R4.50,209,89,94 RCP166814Z 820 Ω 1/16W R74 RCP166814Z 820 Ω 1/16W R74 RCP166814Z 820 Ω 1/16W R74 RCP166814Z 820 Ω 1/16W R188,205,209,89,94 RCP166814Z 820 Ω 1/16W R188,205,209,89,94 RCP166814Z 820 Ω 1/16W R18,203,232,237,238,261,269,291,292,295,98,166,167,320, R192,88 RCP161224Z 1.2K Ω 1/16W R132,207,233,247, RCP161524Z 1.5K Ω 1/16W R20,277,175,134, RCP16224Z 2.2K Ω 1/16W R20,273,252,60,110, 171 RCP16274Z 2.2K Ω 1/16W R20,426,583,92 RCP166324Z 3.9K Ω 1/16W R26,426,583,92 RCP166324Z 3.9K Ω 1/16W R26,426,583,92 RCP165624Z 3.9K Ω 1/16W R275,90 RCP168224Z 3.2K Ω 1/16W R275,90 RCP168224Z 3.2K Ω 1/16W R275,90 RCP16824Z 3.2K Ω 1/16W R275,90 RCP168234Z 3.3K Ω 1/16W R275,90 RCP168234Z 3.3K Ω 1/16W R21,13,17,65,68,159,161,175, RCP161334Z 33K Ω 1/16W R276,206,207,206,26,566,6173 RCP166334Z 33K Ω 1/16W R21,13,17,65,68,159,161,175, RCP161334Z 33K Ω 1/16W R21,13,17,65,68,159,161,175, RCP161334Z 33K Ω 1/16W R21,13,17,65,68,159,161,175, RCP161334Z 33K Ω 1/16W R21,13,17,65,68,159,161,175, RCP166334Z 32K Ω 1/16W R21,13,17,65,68,159,161,175, RCP16634Z 32K Ω 1/16W R21,13,13,13,13,19,194 RCP16234Z 32K Ω 1/16W R21,13,13,13,13,194 RCP166334Z 32K Ω 1/16W R21,13	R267		
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255,273,251,79,80,54,87,97 RC26 RCP161824Z 1.8K Ω 1/16W R20,277,1,75,134, RCP162224Z 2.2K Ω 1/16W 162,283,313,93,114,197,279 RCP162724Z 2.7K Ω 1/16W R18,22,66,73,128, RCP163324Z 3.3K Ω 1/16W 191,219,274,73,252,60,110, RCP163924Z 3.9K Ω 1/16W R26,84,165,190,195,196,131 RCP164724Z 4.7K Ω 1/16W R26,84,165,190,195,196,131 RCP164724Z 4.7K Ω 1/16W R26,84,165,190,195,196,131 RCP164724Z 4.7K Ω 1/16W R275,90 RCP166824Z 5.6K Ω 1/16W R275,90 RCP168224Z 8.2K Ω 1/16W R1,13,17,65,68,159,161,175, RCP161034Z 10K Ω 1/16W R181,202,210,216,227-231,272, 276,296,297,262,56,86,173 12K Ω 1/16W R187,208,91,109 RCP161234Z 12K Ω 1/16W R23,09,311 RCP163334Z 33K Ω 1/16W R46 RCP163934Z 39K Ω 1/16W R7,29,61,63,185,218,126,157, RCP166834Z 47K Ω 1/16W R45 RCP166834Z 82K Ω 1/16W R45 RCP166824Z 220K Ω 1/	R192,88	RCP161224Z	1.2K Ω 1/16W
R226 RCP161824Z 1.8K Ω 1/16W R20,27,71,75,134, RCP162224Z 2.2K Ω 1/16W 162,283,313,93,114,197,279 RCP162724Z 2.7K Ω 1/16W R18,22,66,73,128, RCP163324Z 3.3K Ω 1/16W 191,219,274,73,252,60,110, 171 7 R26,84,165,190,195,196,131 RCP164724Z 4.7K Ω 1/16W R26,84,165,190,195,196,131 RCP166824Z 5.6K Ω 1/16W R264,265,83,92 RCP166824Z 6.8K Ω 1/16W R14,40,41,70,82,312 RCP166824Z 8.2K Ω 1/16W R275,90 RCP168224Z 8.2K Ω 1/16W R1,13,17,65,68,159,161,175, RCP161034Z 10K Ω 1/16W R18,202,210,216,227-231,272, 276,296,297,262,56,86,173 12K Ω 1/16W R187,208,91,109 RCP161534Z 12K Ω 1/16W R2309,311 RCP163334Z 33K Ω 1/16W R46 RCP163934Z 39K Ω 1/16W R7,29,61,63,185,218,126,157, RCP164734Z 47K Ω 1/16W R22,224,96,150 RCP166834Z 82K Ω 1/16W R45 RCP168234Z 82K Ω 1/16W R12,42,43,44,5	R132,207,233,247,	RCP161524Z	$1.5 \text{K} \Omega 1/16 \text{W}$
R20,27,71,75,134, RCP162224Z 2.2K Ω 1/16W 162,283,313,93,114,197,279 RP,25,28,121 RCP162724Z 2.7K Ω 1/16W R18,22,66,73,128, RCP163324Z 3.3K Ω 1/16W 191,219,274,73,252,60,110, 171 3.9K Ω 1/16W R26,84,165,190,195,196,131 RCP164724Z 4.7K Ω 1/16W R26,84,165,190,195,196,131 RCP164724Z 5.6K Ω 1/16W R264,265,83,92 RCP166824Z 5.6K Ω 1/16W R14,40,41,70,82,312 RCP166824Z 8.2K Ω 1/16W R275,90 RCP168224Z 8.2K Ω 1/16W R1,13,17,65,68,159,161,175, RCP161034Z 10K Ω 1/16W R18,202,210,216,227-231,272, 276,296,297,262,56,86,173 12K Ω 1/16W R187,208,91,109 RCP162234Z 12K Ω 1/16W R187,208,91,109 RCP162334Z 33K Ω 1/16W R2,296,1,63,185,218,126,157, RCP164734Z 39K Ω 1/16W R7,29,61,63,185,218,126,157, RCP164734Z 47K Ω 1/16W R45 RCP166834Z 82K Ω 1/16W R45 RCP168234Z 82K Ω 1/16W R45 RCP168244Z 220K Ω 1/16W R12,195,107 RCP166824Z 220	255,273,251,79,80,54,87,97		
162,283,313,93,114,197,279 R9,25,28,121 RCP162724Z 2.7K Ω 1/16W R18,22,66,73,128, RCP163324Z 3.3K Ω 1/16W 191,219,274,73,252,60,110, 171 R52,57 RCP163924Z 3.9K Ω 1/16W R26,84,165,190,195,196,131 RCP164724Z 4.7K Ω 1/16W R26,84,65,83,92 RCP165624Z 5.6K Ω 1/16W R14,40,41,70,82,312 RCP168224Z 8.2K Ω 1/16W R275,90 RCP168224Z 8.2K Ω 1/16W R11,317,65,68,159,161,175, RCP161034Z 10K Ω 1/16W R11,202,210,216,227-231,272, 276,296,297,262,56,86,173 RCP161234Z 12K Ω 1/16W R180 RCP161334Z 15K Ω 1/16W R187,208,91,109 RCP162234Z 22K Ω 1/16W R2,309,311 RCP163334Z 33K Ω 1/16W R2,309,311 RCP163334Z 33K Ω 1/16W R7,29,61,63,185,218,126,157, RCP164734Z 39K Ω 1/16W R7,29,61,63,185,218,126,157, RCP166834Z 47K Ω 1/16W R22,2224,96,150 RCP168234Z 82K Ω 1/16W R45 RCP168234Z 82K Ω 1/16W R47,117,135,139,194 RCP162244Z 220K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R48 RCP162744Z 270K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R48 RCP161054Z 1M Ω 1/16W R48 RCP161054Z 1M Ω 1/16W R49 R49,55,176,170,172 RCP1654Z 1.5M Ω 1/16W R48 RCP161054Z 10M Ω 1/16W R49 RCP161054Z 10M Ω	R226	RCP161824Z	$1.8 \text{K} \Omega 1/16 \text{W}$
R9,25,28,121 RCP162724Z 2.7K Ω 1/16W R18,22,66,73,128, RCP163324Z 3.3K Ω 1/16W 191,219,274,73,252,60,110, 171 R52,57 RCP163924Z 3.9K Ω 1/16W R26,84,165,190,195,196,131 RCP164724Z 4.7K Ω 1/16W R264,265,83,92 RCP165624Z 5.6K Ω 1/16W R14,40,41,70,82,312 RCP166824Z 6.8K Ω 1/16W R275,90 RCP168224Z 8.2K Ω 1/16W R1,13,17,65,68,159,161,175, RCP161034Z 10K Ω 1/16W R18,202,210,216,227-231,272, 276,296,297,262,56,86,173 12K Ω 1/16W R187,310,153 RCP161234Z 12K Ω 1/16W R187,208,91,109 RCP16234Z 22K Ω 1/16W R2,309,311 RCP163334Z 33K Ω 1/16W R46 RCP163934Z 39K Ω 1/16W R46 RCP163934Z 39K Ω 1/16W R45 RCP166834Z 47K Ω 1/16W R45 RCP166834Z 48K Ω 1/16W R45 RCP166834Z 28K Ω 1/16W R45 RCP166834Z 28K Ω 1/16W R45 RCP166834Z 220K Ω 1/16W R45 RCP1668	R20,27,71,75,134,	RCP162224Z	2.2K Ω 1/16W
R18,22,66,73,128, RCP163324Z 3.3K Ω 1/16W 191,219,274,73,252,60,110, 171 R52,57 RCP163924Z 3.9K Ω 1/16W R26,84,165,190,195,196,131 RCP164724Z 4.7K Ω 1/16W R264,265,83,92 RCP165624Z 5.6K Ω 1/16W R14,40,41,70,82,312 RCP166824Z 6.8K Ω 1/16W R275,90 RCP168224Z 8.2K Ω 1/16W R1,13,17,65,68,159,161,175, RCP161034Z 10K Ω 1/16W 181,202,210,216,227-231,272, 276,296,297,262,56,86,173 15K Ω 1/16W R1880 RCP161234Z 12K Ω 1/16W R187,208,91,109 RCP162234Z 22K Ω 1/16W R2309,311 RCP163334Z 33K Ω 1/16W R7,29,61,63,185,218,126,157, RCP164734Z 47K Ω 1/16W R7,29,61,63,185,218,126,157, RCP166834Z 48K Ω 1/16W R45 RCP168234Z 82K Ω 1/16W R12,42,43,44,51,53,104,108, RCP161044Z 100K Ω 1/16W R12,182,184,221,225,278 R47,117,135,139,194 RCP162244Z 220K Ω 1/16W R48 RCP162744Z 270K Ω 1/16W R15,111,183 RCP161054Z 1M Ω 1/16W	162,283,313,93,114,197,279		
191,219,274,73,252,60,110, 171 R52,57 RCP163924Z R26,84,165,190,195,196,131 RCP164724Z R264,265,83,92 RCP165624Z R14,40,41,70,82,312 RCP168224Z RCP168224Z R1,13,17,65,68,159,161,175, RCP161034Z R1,13,17,65,68,159,161,175, RCP161034Z R1,13,17,65,68,159,161,175, RCP161034Z R1,13,17,65,68,159,161,175, RCP161034Z R1,13,17,65,68,159,161,175, RCP161034Z R1,13,17,65,68,159,161,175, RCP161034Z R1,102,210,216,227-231,272, 276,296,297,262,56,86,173 R178,310,153 RCP161234Z RCP161234Z RCP161234Z RCP161234Z RCP162234Z RCP164234Z RCP163334Z RCP163334Z RCP163334Z RCP163334Z RCP163934Z RCP163934Z RCP163934Z RCP164734Z RCP164734Z RCP164734Z RCP166834Z RCP168234Z RCP168234Z RCP168234Z RCP168234Z RCP168234Z RCP168234Z RCP168234Z RCP168234Z RCP164W R12,42,43,44,51,53,104,108, RCP161044Z RCP161044Z RCP161044Z RCP161044Z RCP161044Z RCP161044Z RCP161054Z RCP168244Z RCP161054Z RCP161054Z RCP161054Z RCP161054Z RCP161064Z RC	R9,25,28,121	RCP162724Z	2.7K Ω 1/16W
171	R18,22,66,73,128,	RCP163324Z	$3.3 \text{K} \Omega 1/16 \text{W}$
R52,57 RCP163924Z 3.9K Ω 1/16W R26,84,165,190,195,196,131 RCP164724Z 4.7K Ω 1/16W R264,265,83,92 RCP165624Z 5.6K Ω 1/16W R14,40,41,70,82,312 RCP166824Z 6.8K Ω 1/16W R275,90 RCP168224Z 8.2K Ω 1/16W R1,13,17,65,68,159,161,175, 181,202,210,216,227-231,272, 276,296,297,262,56,86,173 10K Ω 1/16W R180 RCP161234Z 12K Ω 1/16W R187,208,91,109 RCP162234Z 22K Ω 1/16W R2,309,311 RCP163334Z 33K Ω 1/16W R7,29,61,63,185,218,126,157, RCP164734Z 47K Ω 1/16W R7,29,61,63,185,218,126,157, RCP166834Z 47K Ω 1/16W R21,105,107 RCP166834Z 82K Ω 1/16W R45 RCP168234Z 82K Ω 1/16W R12,42,43,44,51,53,104,108, RCP161044Z 100K Ω 1/16W R12,182,184,221,225,278 RCP168234Z 220K Ω 1/16W R45,51,76,170,172 RCP162244Z 220K Ω 1/16W R48 RCP162744Z 270K Ω 1/16W R48 RCP162744Z 270K Ω 1/16W R48 RCP161054Z 10M Ω 1/16W <td>191,219,274,73,252,60,110,</td> <td></td> <td></td>	191,219,274,73,252,60,110,		
R26,84,165,190,195,196,131 RCP164724Z 4.7K Ω 1/16W R264,265,83,92 RCP165624Z 5.6K Ω 1/16W R14,40,41,70,82,312 RCP166824Z 6.8K Ω 1/16W R275,90 RCP168224Z 8.2K Ω 1/16W R1,13,17,65,68,159,161,175, 181,202,210,216,227-231,272, 276,296,297,262,56,86,173 RCP161034Z 10K Ω 1/16W R180 RCP161534Z 15K Ω 1/16W R187,208,91,109 RCP162234Z 22K Ω 1/16W R2,309,311 RCP163334Z 38K Ω 1/16W R7,29,61,63,185,218,126,157, 222,224,96,150 RCP166834Z 47K Ω 1/16W R45 RCP166834Z 82K Ω 1/16W R45 RCP166824Z 220K Ω 1/16W R45,117,135,139,194 RCP162244Z 220K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R48 RCP162744Z 270K Ω 1/16W R48 RCP161054Z 1M Ω 1/16W R48 RCP161054Z			
R264,265,83,92 RCP165624Z 5.6K Ω 1/16W R14,40,41,70,82,312 RCP166824Z 6.8K Ω 1/16W R275,90 RCP168224Z 8.2K Ω 1/16W R1,13,17,65,68,159,161,175, 181,202,210,216,227-231,272, 276,296,297,262,56,86,173 10K Ω 1/16W R183,310,153 RCP161234Z 12K Ω 1/16W R180 RCP161234Z 15K Ω 1/16W R187,208,91,109 RCP162234Z 22K Ω 1/16W R2,309,311 RCP163334Z 33K Ω 1/16W R7,29,61,63,185,218,126,157, RCP16334Z 39K Ω 1/16W R7,29,61,63,185,218,126,157, RCP164734Z 47K Ω 1/16W R21,105,107 RCP166834Z 68K Ω 1/16W R45 RCP168234Z 82K Ω 1/16W R12,42,43,44,51,53,104,108, RCP161044Z 100K Ω 1/16W R12,182,184,221,225,278 RCP162244Z 220K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R48 RCP162744Z 270K Ω 1/16W R48 RCP16344Z 820K Ω 1/16W R106 RCP161054Z 1M Ω 1/16W R193 RCP161054Z 1M Ω 1/16W	R52,57	RCP163924Z	
R14,40,41,70,82,312 RCP166824Z 6.8K Ω 1/16W R275,90 RCP168224Z 8.2K Ω 1/16W R1,13,17,65,68,159,161,175, 181,202,210,216,227-231,272, 276,296,297,262,56,86,173 RCP161234Z 10K Ω 1/16W R180 RCP161534Z 15K Ω 1/16W R187,208,91,109 RCP162234Z 22K Ω 1/16W R2,309,311 RCP163334Z 33K Ω 1/16W R7,29,61,63,185,218,126,157, RCP164734Z 47K Ω 1/16W R21,105,107 RCP166834Z 68K Ω 1/16W R45 RCP166834Z 82K Ω 1/16W R12,42,43,44,51,53,104,108, RCP161044Z 100K Ω 1/16W R45,117,135,139,194 RCP162244Z 220K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R48 RCP164744Z 470K Ω 1/16W R48 RCP161054Z 1M Ω 1/16W R193 RCP161054Z 1M Ω 1/16W R193 RCP161054Z 10M Ω 1/16W		RCP164724Z	4.7K Ω 1/16W
R275,90 RCP168224Z 8.2K Ω 1/16W R1,13,17,65,68,159,161,175, 181,202,210,216,227-231,272, 276,296,297,262,56,86,173 RCP161234Z 10K Ω 1/16W R178,310,153 RCP161234Z 12K Ω 1/16W R180 RCP161534Z 15K Ω 1/16W R187,208,91,109 RCP162234Z 22K Ω 1/16W R2,309,311 RCP163334Z 33K Ω 1/16W R7,29,61,63,185,218,126,157, RCP164734Z 47K Ω 1/16W R22,224,96,150 RCP168234Z 82K Ω 1/16W R45 RCP168234Z 82K Ω 1/16W R12,42,43,44,51,53,104,108, RCP168234Z RCP168234Z 82K Ω 1/16W R12,128,184,221,225,278 RCP161044Z 100K Ω 1/16W R45,5176,170,172 RCP162244Z 220K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R15,111,183 RCP164744Z 470K Ω 1/16W R48 RCP164744Z 820K Ω 1/16W R106 RCP161054Z 1M Ω 1/16W R193 RCP161054Z 1M Ω 1/16W R124 RCP161064Z 10M Ω 1/16W R244 RCP161064Z <	R264,265,83,92	RCP165624Z	5.6K Ω 1/16W
R1,13,17,65,68,159,161,175, RCP161034Z 10K Ω 1/16W 181,202,210,216,227-231,272, 276,296,297,262,56,86,173 R178,310,153 RCP161534Z 15K Ω 1/16W R180 RCP161534Z 22K Ω 1/16W R2,309,311 RCP163334Z 33K Ω 1/16W R7,29,61,63,185,218,126,157, RCP164734Z 47K Ω 1/16W R2,22,224,96,150 R21,105,107 RCP16834Z 82K Ω 1/16W R12,105,107 RCP16834Z 82K Ω 1/16W R12,182,184,221,225,278 R47,117,135,139,194 RCP162244Z 220K Ω 1/16W R49,55,176,170,172 RCP164744Z 270K Ω 1/16W R49,55,176,170,172 RCP164744Z 470K Ω 1/16W R15,111,183 RCP163244Z 820K Ω 1/16W R15,111,183 RCP164744Z 470K Ω 1/16W R193 RCP161054Z 1M Ω 1/16W R193 RCP161054Z 1M Ω 1/16W R193 RCP161054Z 1M Ω 1/16W R194 RCP161064Z 10M Ω 1/16W R124 RCP161064Z 10M Ω 1/16W R124 RCP161064Z 10M Ω 1/16W R244 RCP161064Z 10K Ω 1/2W R239 RCP121034Z 10K Ω 1/2W R239 RCP121034Z 10K Ω 1/2W R29F 50WV	R14,40,41,70,82,312	RCP166824Z	6.8K Ω 1/16W
181,202,210,216,227-231,272, 276,296,297,262,56,86,173 R178,310,153 RCP161234Z R180 RCP161534Z R187,208,91,109 RCP162234Z R2,309,311 RCP163334Z RCP163334Z RCP163334Z RCP163334Z RCP163334Z RCP163334Z RCP16334Z RCP16334Z RCP16334Z RCP16334Z RCP16334Z RCP16334Z RCP164734Z RCP16834Z RCP16834Z RCP168234Z RCP161044Z RCP161044Z RCP161044Z RCP161054Z RCP168244Z RCP168244Z RCP168244Z RCP168244Z RCP168244Z RCP168244Z RCP168244Z RCP168244Z RCP168244Z RCP161054Z RCP161054Z RCP161054Z RCP161054Z RCP161064Z RCP161	R275,90	RCP168224Z	8.2K Ω 1/16W
276,296,297,262,56,86,173 R178,310,153 RCP161234Z $12K \Omega 1/16W$ R180 RCP161534Z $15K \Omega 1/16W$ R187,208,91,109 RCP162234Z $22K \Omega 1/16W$ R2,309,311 RCP163334Z $33K \Omega 1/16W$ R46 RCP163934Z $39K \Omega 1/16W$ R7,29,61,63,185,218,126,157, RCP164734Z $47K \Omega 1/16W$ R22,224,96,150 RCP166834Z $68K \Omega 1/16W$ R45 RCP168234Z $82K \Omega 1/16W$ R12,42,43,44,51,53,104,108, RCP161044Z $100K \Omega 1/16W$ R12,182,184,221,225,278 R47,117,135,139,194 RCP162244Z $220K \Omega 1/16W$ R49,55,176,170,172 RCP162744Z $270K \Omega 1/16W$ R15,111,183 RCP164744Z $470K \Omega 1/16W$ R48 RCP164744Z $470K \Omega 1/16W$ R193 RCP161054Z $1M \Omega 1/16W$ R193 RCP161054Z $10M \Omega 1/16W$ R124 RCP161064Z $10M \Omega 1/16W$ R244 RCP161064Z $10M \Omega 1/16W$ R239 RCP121034Z $10K \Omega 1/2W$ C8 CC0508204L $82PF 50WV$	R1,13,17,65,68,159,161,175,	RCP161034Z	10K Ω 1/16W
R178,310,153 RCP161234Z 12K Ω 1/16W R180 RCP161534Z 15K Ω 1/16W R187,208,91,109 RCP162234Z 22K Ω 1/16W R2,309,311 RCP163334Z 33K Ω 1/16W R46 RCP163934Z 39K Ω 1/16W R7,29,61,63,185,218,126,157, RCP164734Z 47K Ω 1/16W R22,224,96,150 RCP166834Z 68K Ω 1/16W R45 RCP168234Z 82K Ω 1/16W R12,42,43,44,51,53,104,108, RCP161044Z 100K Ω 1/16W R12,182,184,221,225,278 RCP162244Z 220K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R48 RCP164744Z 470K Ω 1/16W R48 RCP161054Z 1M Ω 1/16W R193 RCP161054Z 1M Ω 1/16W R193 RCP161064Z 10M Ω 1/16W R244 RCP161064Z 10M Ω 1/16W R244 RCP141514Z 150 Ω 1/4W R239 RCP121034Z 10K Ω 1/2W C8 CC0508204L <td></td> <td></td> <td></td>			
R180 RCP161534Z 15K Ω 1/16W R187,208,91,109 RCP162234Z 22K Ω 1/16W R2,309,311 RCP163334Z 33K Ω 1/16W R46 RCP163934Z 39K Ω 1/16W R7,29,61,63,185,218,126,157, RCP164734Z 47K Ω 1/16W R222,224,96,150 RCP166834Z 68K Ω 1/16W R45 RCP168234Z 82K Ω 1/16W R12,42,43,44,51,53,104,108, RCP161044Z 100K Ω 1/16W R12,182,184,221,225,278 RCP162244Z 220K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R15,111,183 RCP164744Z 470K Ω 1/16W R48 RCP168244Z 820K Ω 1/16W R193 RCP161054Z 1M Ω 1/16W R193 RCP161054Z 1.5M Ω 1/16W R124 RCP161064Z 10M Ω 1/16W R244 RCP141514Z 150 Ω 1/4W R239 RCP121034Z 10K Ω 1/2W C8 CC0508204L 82PF 50WV		DCD1 (10047	101/ 0 1/1/01/
R187,208,91,109 RCP162234Z 22K Ω 1/16W R2,309,311 RCP163334Z 33K Ω 1/16W R46 RCP163934Z 39K Ω 1/16W R7,29,61,63,185,218,126,157, RCP164734Z 47K Ω 1/16W R222,224,96,150 RCP166834Z 68K Ω 1/16W R45 RCP168234Z 82K Ω 1/16W R12,42,43,44,51,53,104,108, RCP161044Z 100K Ω 1/16W R12,182,184,221,225,278 R47,117,135,139,194 RCP162244Z 220K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R15,111,183 RCP164744Z 470K Ω 1/16W R48 RCP168244Z 820K Ω 1/16W R193 RCP161054Z 1M Ω 1/16W R193 RCP161054Z 1.5M Ω 1/16W R124 RCP161064Z 10M Ω 1/16W R244 RCP141514Z 150 Ω 1/4W R239 RCP121034Z 10K Ω 1/2W C8 CC0508204L 82PF 50WV			
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R46 RCP163934Z 39K Ω 1/16W R7,29,61,63,185,218,126,157, RCP164734Z 47K Ω 1/16W 222,224,96,150 RCP166834Z 68K Ω 1/16W R45 RCP168234Z 82K Ω 1/16W R12,42,43,44,51,53,104,108, RCP161044Z 100K Ω 1/16W 112,182,184,221,225,278 R47,117,135,139,194 RCP162244Z 220K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R15,111,183 RCP164744Z 470K Ω 1/16W R48 RCP168244Z 820K Ω 1/16W R106 RCP161054Z 1M Ω 1/16W R193 RCP161554Z 1.5M Ω 1/16W R124 RCP161064Z 10M Ω 1/16W R244 RCP141514Z 150 Ω 1/4W R239 RCP121034Z 10K Ω 1/2W C8 CC0508204L 82PF 50WV			
R7,29,61,63,185,218,126,157, RCP164734Z 47K Ω 1/16W 222,224,96,150 RCP166834Z 68K Ω 1/16W R45 RCP168234Z 82K Ω 1/16W R12,42,43,44,51,53,104,108, RCP161044Z 100K Ω 1/16W 112,182,184,221,225,278 RCP162244Z 220K Ω 1/16W R49,55,176,170,172 RCP162244Z 270K Ω 1/16W R15,111,183 RCP164744Z 470K Ω 1/16W R48 RCP168244Z 820K Ω 1/16W R106 RCP161054Z 1M Ω 1/16W R193 RCP161554Z 1.5M Ω 1/16W R124 RCP161064Z 10M Ω 1/16W R244 RCP141514Z 150 Ω 1/4W R239 RCP121034Z 10K Ω 1/2W C8 CC0508204L 82PF 50WV			
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R21,105,107 RCP166834Z 68K Ω 1/16W R45 RCP168234Z 82K Ω 1/16W R12,42,43,44,51,53,104,108, RCP161044Z 100K Ω 1/16W 112,182,184,221,225,278 100K Ω 1/16W R47,117,135,139,194 RCP162244Z 220K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R15,111,183 RCP164744Z 470K Ω 1/16W R48 RCP168244Z 820K Ω 1/16W R106 RCP161054Z 1M Ω 1/16W R193 RCP161554Z 1.5M Ω 1/16W R124 RCP161064Z 10M Ω 1/16W R244 RCP141514Z 150 Ω 1/4W R239 RCP121034Z 10K Ω 1/2W C8 CC0508204L 82PF 50WV		RCP164734Z	47K Ω 1/16W
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R12,42,43,44,51,53,104,108, RCP161044Z 100 K Ω 1/16W 112,182,184,221,225,278 R47,117,135,139,194 RCP162244Z 220 K Ω 1/16W R49,55,176,170,172 RCP162744Z 270 K Ω 1/16W R15,111,183 RCP164744Z 470 K Ω 1/16W R48 RCP168244Z 820 K Ω 1/16W R193 RCP161054Z 1 M Ω 1/16W R124 RCP161064Z 10 M Ω 1/16W R244 RCP141514Z 150 Ω 1/4W R239 RCP121034Z 10 K Ω 1/2W C8 CC0508204L 82 PF 50WV			
R47,117,135,139,194 RCP162244Z 220K Ω 1/16W R49,55,176,170,172 RCP162744Z 270K Ω 1/16W R15,111,183 RCP164744Z 470K Ω 1/16W R48 RCP168244Z 820K Ω 1/16W R106 RCP161054Z 1M Ω 1/16W R193 RCP161554Z 1.5M Ω 1/16W R124 RCP161064Z 10M Ω 1/16W R244 RCP141514Z 150 Ω 1/4W R239 RCP121034Z 10K Ω 1/2W C8 CC0508204L 82PF 50WV	R12,42,43,44,51,53,104,108,		
R49,55,176,170,172 RCP162744Z 270 K Ω 1/16W R15,111,183 RCP164744Z 470 K Ω 1/16W R48 RCP168244Z 820 K Ω 1/16W R106 RCP161054Z 1 M Ω 1/16W R193 RCP161554Z 1.5 M Ω 1/16W R124 RCP161064Z 10 M Ω 1/16W R244 RCP141514Z 150 Ω 1/4W R239 RCP121034Z 10 K Ω 1/2W C8 CC0508204L 82 PF 50WV		DCD1622447	2201/ 0 1/1/01/
R15,111,183 RCP164744Z 470 K Ω 1/16 W R48 RCP168244Z 820 K Ω 1/16 W R106 RCP161054Z 1M Ω 1/16 W R193 RCP161554Z 1.5M Ω 1/16 W R124 RCP161064Z 10M Ω 1/16 W R244 RCP141514Z 150 Ω 1/4 W R239 RCP121034Z 10K Ω 1/2 W C8 CC0508204L 82PF 50WV			
R48 RCP168244Z 820K Ω 1/16W R106 RCP161054Z $1M Ω 1/16W$ R193 RCP161554Z $1.5M Ω 1/16W$ R124 RCP161064Z $10M Ω 1/16W$ R244 RCP141514Z $150 Ω 1/4W$ R239 RCP121034Z $10K Ω 1/2W$ C8 CC0508204L 82PF 50WV			
R106 RCP161054Z $1M Ω 1/16W$ R193 RCP161554Z $1.5M Ω 1/16W$ R124 RCP161064Z $10M Ω 1/16W$ R244 RCP141514Z $150 Ω 1/4W$ R239 RCP121034Z $10K Ω 1/2W$ C8 CC0508204L 82PF 50WV			
R193 RCP161554Z 1.5M Ω 1/16W R124 RCP161064Z 10M Ω 1/16W R244 RCP141514Z 150 Ω 1/4W R239 RCP121034Z 10K Ω 1/2W C8 CC0508204L 82PF 50WV			
R124 RCP161064Z 10M Ω 1/16W R244 RCP141514Z 150 Ω 1/4W R239 RCP121034Z 10K Ω 1/2W C8 CC0508204L 82PF 50WV			
R244 RCP141514Z 150 Ω 1/4W R239 RCP121034Z 10K Ω 1/2W C8 CC0508204L 82PF 50WV			
R239 RCP121034Z 10K Ω 1/2W C8 CC0508204L 82PF 50WV			$10 \mathrm{M} \ \Omega \ 1/16 \mathrm{W}$
C8 CC0508204L 82PF 50WV	R244	RCP141514Z	150 Ω 1/4W
	R239	RCP121034Z	10K Ω 1/2W
C4 CC0501015L 100PF 50WV	C8	CC0508204L	82PF 50WV
	C4	CC0501015L	100PF 50WV

C137	CC0501515L	150PF 50WV
C31,136	CC0502715L	270PF 50WV
C11,14	CC0503315L	330PF 50WV
C23	CC0505615L	560PF 50WV
C52,197	CC0500101A	1PF 50WV
C225	CC0500201A	2PF 50WV
C218	CC0500301A CC0500501A	3PF 50WV 5PF 50WV
C61,62,90,79,190 C108,147,1,49	CC0500301A	10PF 50W V
C84,89	CC0501504A	15PF 50WV
C43,76	CC0501804A	18PF 50WV
C54,55	CC0502204A	22PF 50WV
C119,279,226,287	CC0503304A	33PF 50WV
C195	CC0503904A	39PF 50WV
C202,224	CC0504704A	47PF 50WV
C88,116,117	CC0506804A	68PF 50WV
C191,150	CC0501015A	100PF 50WV
C194,192	CC0501515A	150PF 50WV
C196,222,295	CC0501815A	150PF 50WV
C139,141	CC0503904D	39PF 50WV
C140	CC0501515D	150PF 50WV
C130 C281	CC0502004G CC0501015G	20PF 50WV 100PF 50WV
C281 C282	CC0501015G CC0501815G	180PF 50W V
C282 C220	CC0501813G	220PF 50WV
C86	CC0502715G	270PF 50WV
C201,203	CC0503915G	390PF 50WV
C210	CC0504715G	470PF 50WV
C74,85	CC0505615G	560PF 50WV
C199	CD3005614Z	560P 300WV
C7,47,50,95,99,110,118,120,	CC0501027L	0.001UF 50WV
174,183, 244,245,100, 246		
C81,173,193,206,207, 236,	CC0501047L	0.1UF 50WV
213,234,250,256,259,272,		
249,302,270,177,215, 292,40,		
171,235,211,291 C5,18,48,65,87,92,	CC0504737L	0.047UF 50WV
96,102,105,106,257,151,160,	CC0304737L	0.047C1 30WV
233,240,251,253,258,260,261,		
263,20,217,68,72,143,266		
C32,42,45,46,221,162,163,	CC0504727L	0.0047UF
164		50WV
C155	CC0502237L	0.022UF 50WV
C200	CC1001037L	0.01UF 100WV
C2,3,6,9,15,16,17,19,51,57,	CC0501037L	0.01UF 50WV
58,60,109,114,133,138,161,		
205,219,229,230,232,247,		
265,267,269,271,278,285, 298,188,63,66,69,73,127,		
134,135,142,145,146,241,		
305,306,307,308,309,310,		
311,312,131,262,216		
C154	CT0162246Z	0.22UF 16WV
C97,149	CT0161046Z	0.1UF 16WV
C98,180,299,300	CT0162256Z	2.2UF 16WV
C178,296	CM0501045Z	0.1UF 50WV
C237,78	CM0501024Z	0.001UF 50WV
C184	CM0501035Z	0.01UF 50WV
C39,185	CM0502235Z	0.022UF 50WV
C176	CM0504725Z	0.0047UF
C34	CM0504735Z	50WV 0.047UF 50WV
C12	CM0504733Z	0.0022UF
-	J.1.0002222	50WV
C198	CE0501047Z	0.1UF 50WV
C10	CE0504747Z	0.47UF 50WV
C67,75,153,157,170,186,187	CE0501057Z	1UF 50WV
C159,214,242	CE0502257Z	2.2UF 50WV
C103,182	CE0504757Z	4.7UF 50WV
C13,21,22,44,82,115,158,275,	CE0251067Z	10UF 25WV

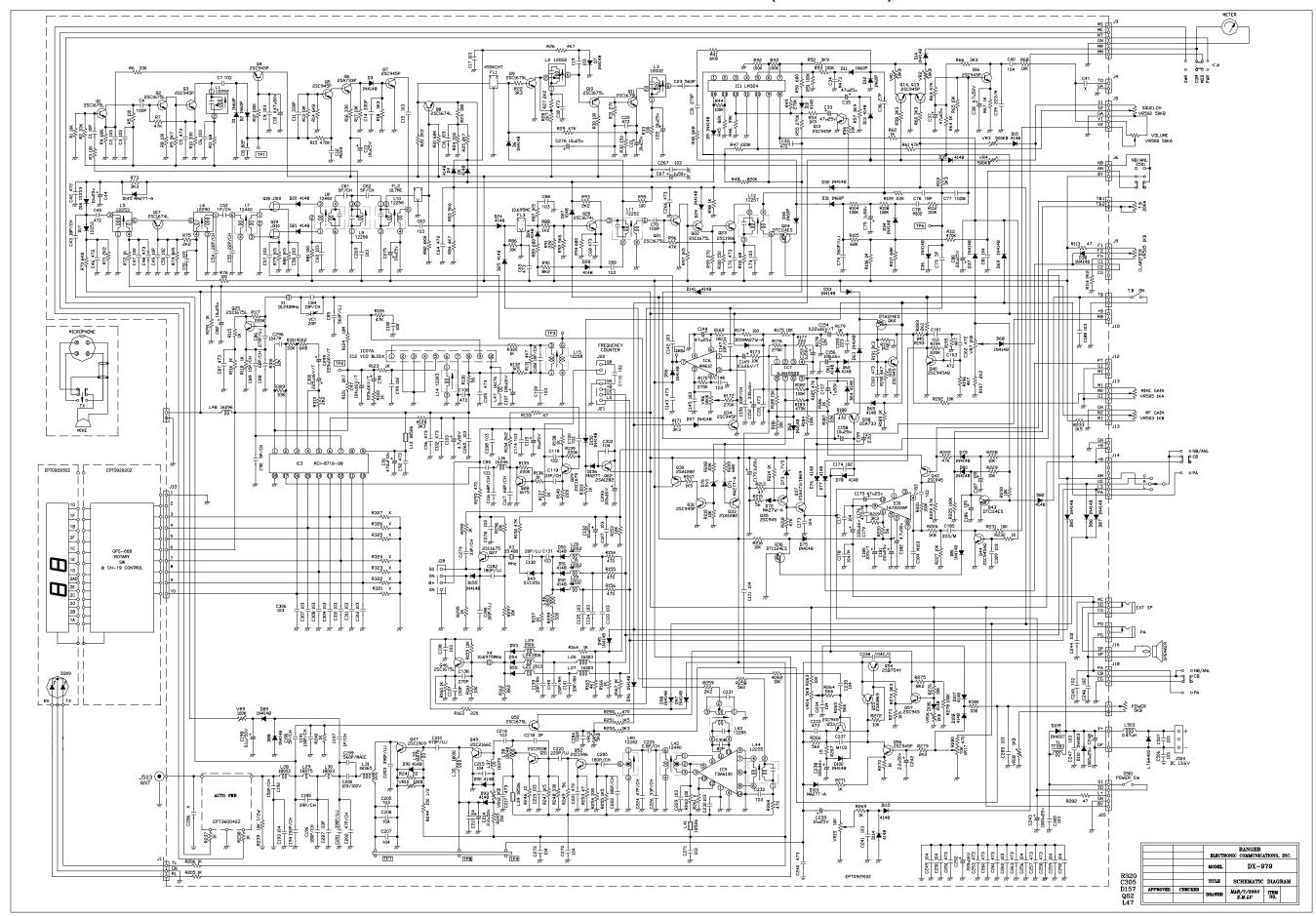
27.6 122 222		-
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		20P
		(CV38D2001)
C80,181	CE0252267Z	22UF 25WV
C37,175,33,144,38	CE0254767Z	47UF 25WV
C156,238,293,107	CE0161077Z	100UF 16WV
C252	CE0162277Z	220UF 16WV
C152,179	CE0163377Z	330UF 16WV
C91	CE0104777Z	470UF 10WV
C243,248	CE0251087Z	1000UF 25WV
C35	CEM254767Z	47UF 25WV
FL3		10.695MHZ
	EFX8106952	
FL1	EFCFW455HT	CFW-455HT
FL2	EFCFE107MX	SFE10.7MX
<u>X1</u>	EYCAB10240	10.240MHZ
X3	EYBAA15480	15.480 MHZ
X4	EYBAE10697	10.6975MHZ 1
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IC3	ENRG871999	RCI-8719A
IC7	ENRO04558Z	BA4558
IC9(B239)	ENRCI6130Z	RCI-6130
VCO	ENNOHIC07A	UHIC07A
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Q52,53	T2SC01906Z	2SC1906
Q36	TDTC0124ES	DTC124ES
Q24,43	TDTC0114ES	DTC114ES
Q60	TDTA0124ES	DTA124ES
Q30,33,62	T2SA01282E	2SA1282AE
Q1,2,9,10,11,25,28,29,46,27,2	T2SC01675L	2SC1675L
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019 10	EMIC 1002107	E E T 1210
Q18,19	FMOJ00310Z	F.E.T J310
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D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31	ED1N00060P ED1N04003Z	1N4148 1N60P 1N4003
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z	1N4148 1N60P 1N4003 1N4007
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z	1N4148 1N60P 1N4003 1N4007 1SS53
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49	ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z	1N40P 1N4009 1N4003 1N4007 1SS53 SVC-251SPA
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72	ED1N00060P ED1N04003Z ED1N04007Z EDS00053Z EDSV00251Z EDMA00027W	1N40P 1N4009 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDS00053Z EDSV00251Z EDMA00027W EDMA00027T	1N40P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z	1N60P 1N4003 1N4007 1S\$53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z	1N40P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z	1N60P 1N4003 1N4007 1S\$53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z	1N60P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6	ED1N04148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002	1N60P 1N4003 1N4007 1S\$53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3	ED1N00060P ED1N00060P ED1N04003Z ED1N04007Z EDS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT1290	1N4148 1N60P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12012	1N4148 1N60P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. I.F.T. 113CN-6514X
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6	ED1N00060P ED1N00060P ED1N04003Z ED1N04007Z EDS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT1290	1N4148 1N60P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. I.F.T. 113CN-6514X I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12012 ECIFT12013	1N4148 1N60P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6485Z
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12012	1N40P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6485Z I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25 L23,24	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12012 ECIFT12013 ECIFT12016	1N40P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6485Z I.F.T. 113CN-6344Z
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25 L23,24 L1,11	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12012 ECIFT12013 ECIFT12016 ECIFT12252	1N40P 1N4003 1N4007 1S\$53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 1.F.T. 113CN-6514X I.F.T. 113CN-6485Z I.F.T. 113CN-6344Z I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25 L23,24 L1,11 L44	ED1N00060P ED1N04003Z ED1N04003Z ED1N04007Z EDS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12012 ECIFT12013 ECIFT12016 ECIFT12252 ECIFT12255	1N409 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6485Z I.F.T. 113CN-6344Z I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25 L23,24 L1,11 L44 L9,10	ED1N00060P ED1N04003Z ED1N04007Z EDS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12012 ECIFT12013 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12256	1N60P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6485Z I.F.T. 113CN-6344Z I.F.T. I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25 L25 L23,24 L1,11 L44 L9,10 L12	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z ECIFT12002 ECIFT12002 ECIFT12013 ECIFT12016 ECIFT1255 ECIFT1255 ECIFT12256 ECIFT12257	1N60P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6485Z I.F.T. 113CN-6344Z I.F.T. I.F.T. I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25 L23,24 L1,11 L44 L9,10 L12 L15	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12012 ECIFT12013 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12256 ECIFT12257 ECIFT12258	1N40P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7MC-7172ABW I.F.T. I.F.T. 113CN-6514X I.F.T. 113CN-6485Z I.F.T. 113CN-6344Z I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25 L25 L23,24 L1,11 L44 L9,10 L12	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z ECIFT12002 ECIFT12012 ECIFT12013 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12256 ECIFT12257 ECIFT12258 ECIFT12258	1N40P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6485Z I.F.T. 113CN-6344Z I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25 L23,24 L1,11 L44 L9,10 L12 L15	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12012 ECIFT12013 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12256 ECIFT12257 ECIFT12258	1N40P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7MC-7172ABW I.F.T. I.F.T. 113CN-6514X I.F.T. 113CN-6485Z I.F.T. 113CN-6344Z I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25 L25 L23,24 L1,11 L44 L9,10 L12 L15 L40	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z ECIFT12002 ECIFT12012 ECIFT12013 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12256 ECIFT12257 ECIFT12258 ECIFT12258	1N40P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6485Z I.F.T. 113CN-6344Z I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25 L23,24 L1,11 L44 L9,10 L12 L15 L40 L14	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z ECIFT12002 ECIFT12012 ECIFT12013 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12256 ECIFT12257 ECIFT12258 ECIFT12262 ECIFT12263	1N40P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6344Z I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25 L23,24 L1,11 L44 L9,10 L12 L15 L40 L14 L43 C306(L43 PIN4&6)	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12256 ECIFT12258 ECIFT12258 ECIFT12258 ECIFT12263 ECIFT12263 ECIFT12265 CK1820AA4A	1N400P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6485Z I.F.T. 113CN-6344Z I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25 L25 L23,24 L1,11 L44 L9,10 L12 L15 L40 L14 L43 C306(L43 PIN4&6) L5	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12012 ECIFT12013 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12256 ECIFT12257 ECIFT12258 ECIFT12258 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12253	1N400P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6485Z I.F.T. 113CN-6344Z I.F.T.
D3-5,7,9,10,13,14,20,21,95, 96,32-35,37,53,60-65,69, 75-81,88,89,102,106,107, 141,50,108,97,82,155,6,15, 24,25,26,27,36,38,50,52,54, 5,56,57,85,86,87,90,92,93, 8,115,28, 29,51,68,114 D1,2,11,12,30,31 D110 D109 D16,17 D49 D59,72 D71,145,156,103 D70 D73 L2,3 L6 L20,21,22 L25 L23,24 L1,11 L44 L9,10 L12 L15 L40 L14 L43 C306(L43 PIN4&6)	ED1NM4148Z ED1N00060P ED1N04003Z ED1N04007Z EDSS00053Z EDSV00251Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12256 ECIFT12258 ECIFT12258 ECIFT12258 ECIFT12263 ECIFT12263 ECIFT12265 CK1820AA4A	1N400P 1N4003 1N4007 1SS53 SVC-251SPA MA27W-A MA27T-A 5.1V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6485Z I.F.T. 113CN-6344Z I.F.T.

L48	ECCHK16096	470UH
L503	ECCHK16000	0.47UH
L26,27,46	ECCHK16003	470UH
T1	ECCHK16004	1.1MH EI-19
L33,37	ECCHK16070	22UH
L47	ECCHK16176	4.7UH
L16	ECCHK16246	22UH
L28,30 L29	ECSPG18003 ECSPG18075	SPRING COIL SPRING COIL
L31	ECSPG18075 ECSPG18365	SPRING COIL SPRING COIL
L35	ECSPG18001	SPRING COIL
L38	ECRFZ10048	25 UH
L39	ECBAD18506	BEAD COIL
L41,13	ECBAD18526	BEAD COIL
VR10	RE10100074	S/F/R 100 Ω
		(KVSF6-637A)
VR16,12,7,18	RE10200041	S/F/R 1K
,,-,		VM6CK
VR14,13	RE50200042	S/F/R 5K
<u></u> ,		VM6CK
VR1,2,6,15,17	RE10300031	S/F/R 10K
		VM6CK
VR9	RE10400043	S/F/R 100K
		VM6CK
VR4,3	RE50400087	S/F/R 500K Ω
J9,MIC/IP	WX01070702	JUMPER
JP5,14,15,16,17,18,30,35,	WX01070705	JUMP WIRE
36,37,39,55,63,68,69,75,76,85		
,87,88,91,92,99,100,102,103 ,		
104,108,109		
110,114,120,124,125,126,129, 131,133,136,148,19,153,13,11		
2,127		
JP31,41,43,46,79,80,81,82,84,	WX01070706	JUMP WIRE
97,106,155,156,6	11101070700	venia wite
JP25,57,58,71,96,116,117,	WX01070707	JUMP WIRE
122,123,130,142,119,3,70,113		
,141		
JP22,24,29,107,134,135,132	WX01070708	JUMP WIRE
JP11,20,38,40,42,83,94,98,4,	WX01070709	JUMP WIRE
128		
JP7,10,26,27,44,61,62,65,72,	WX01070710	JUMP WIRE
73,74,78,89,95,114,115,118,		
138,150,149,151,152,66,67,77		
,105,146,147,33,64	WW01070711	HIMD WIDE
JP8,21,51,139,86 JP12,52,140	WX01070711	JUMP WIRE
	WX01070712	JUMP WIRE
JP23,48,111,137,144,154,34, 145,8	WX01070713	JUMP WIRE
JP32,45,93	WX01070714	JUMP WIRE
JP1,47,49,50,54,56,58,90,	WX01070715	JUMP WIRE
121,143	WA01070713	JOWN WIRL
J7,17,22,25,31,34	EX07N48223	P/C/S 2P
J6,11,18,32	EX07N48350	P/C/S 3P
J21	EX07N48490	P/C/S 4P
J3,5,20	EX07N48222	P/C/S 5P
J1,14	EX07N48331	P/C/S 6P
J33	EX07N48209	P/C/S 10P
SP(J16)	EX07N41330	P/C/S 2P
J12	EX07N41227	P/C/S 3P
TP2,3,5	EX07N48612	1PIN L=11.8
TP7,8,9	XZZZ90006Z	
PA,EXP SP	EX06N41045	EAR JACK
L503	WW.0012015 A	TUDE
	WX0012015A	TUBE
L504	WH0007005Z	LEAD WIRE

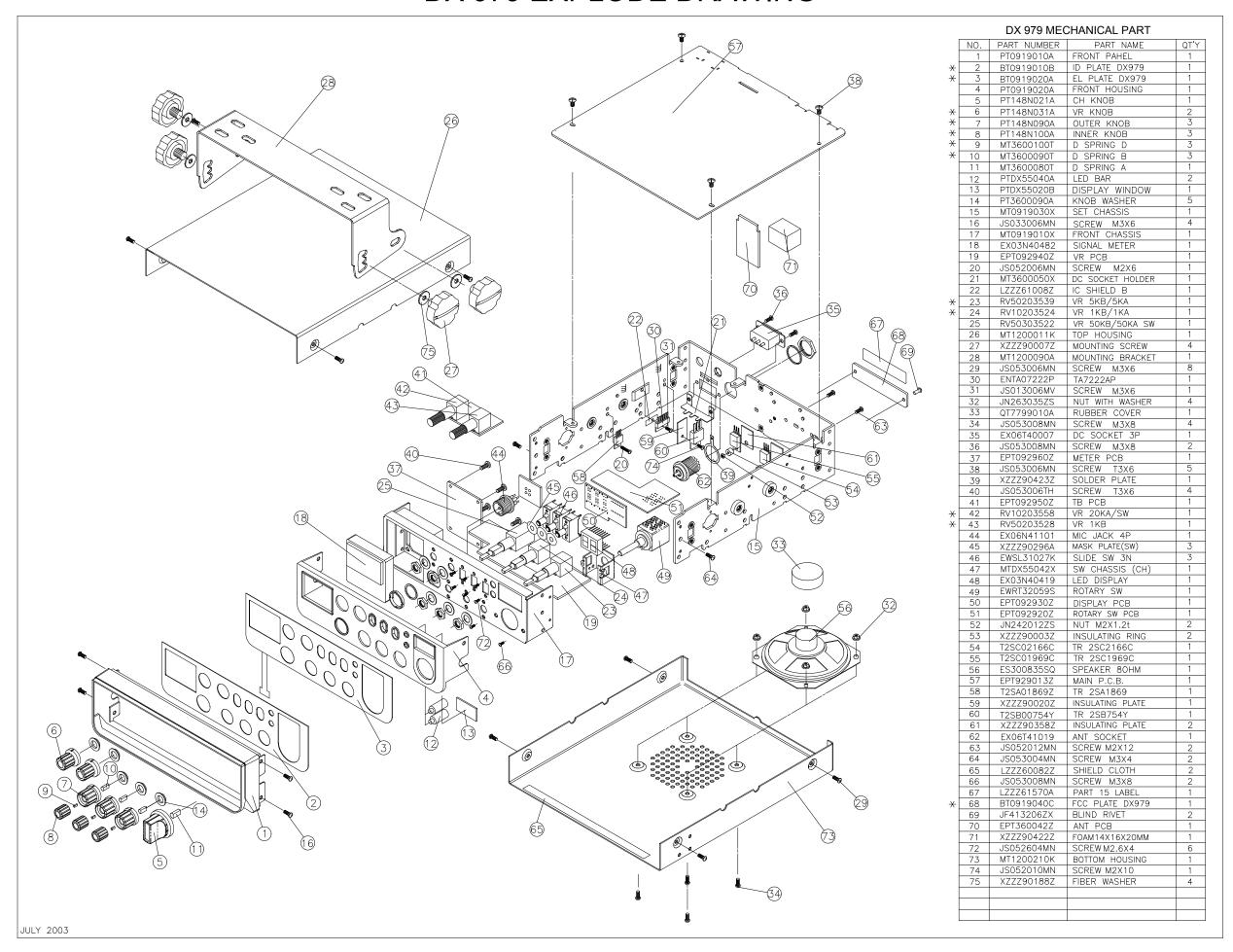
DX 979 SCHEMATIC DIAGRAM (CONTROL PCB)



DX 979 SCHEMATIC DIAGRAM (MAIN PCB)



DX 979 EXPLODE DRAWING



UPDATES & CORRECTIONS

Any updates or corrections to this Service

Manual will be included in the

Tech Support section of our website at

www.GalaxyRadios.com.

Galaxy Two Year Warranty

This new Galaxy radio is covered by a two year limited warranty. Here are the details.

- All of our Galaxy radio model numbers begin with the letters "DX" and are covered by our Limited Two Year Parts and Labor Warranty.
- "Limited" means that we will repair problems caused by factory defects or normal use at no charge. Work performed by qualified technicians which did not cause any damage to the radio will not void the warranty and will be left intact. Problems caused by unqualified technicians or operator abuse can also be repaired, but there will be a charge.
- The warranty period begins when the radio is first purchased. However, in the event that the dated sales receipt has been lost or the radio was purchased used, our radios are still covered for 26 months from the date of manufacture based on the serial number. Our warranty comes with the radio and remains valid even if you sell the radio to someone else. Refurbished radios are distinguised from new radios by using the letter "R" as the first character of the serial number.

There are no off-site "Factory Authorized" service centers for Galaxy "DX" models. All warranty work must be done at our facility.

For maximum convenience, these radios may be shipped directly to us for repair after obtaining a Repair Authorization Number (RAN). This RAN may be obtained from our website or by calling our Service Department at 760-480-8800 between 10:00 AM and 4:00 PM Pacific Time. The RAN must be written below your return address on the outside of the shipping box. Boxes, which arrive without an RAN, will be refused, and the shipping company will return the unopened box to you. Be sure to have a pen and paper ready along with the serial number of your radio before calling. We will give you the RAN and our shipping address over the phone.

When you send your radio, please include a copy of the sales receipt and a note with a detailed description of the symptoms, especially if they are intermittent. This will help our technicians locate the problem so we don't waste time sending the radio back and forth. If possible, please include a daytime phone number in case our technicians have any questions. Do not send your bracket, power cord or microphone unless we ask you for these items during our phone conversation.

You are responsible for getting the radio safely to us. (We suggest using United Parcel Service - UPS.) You must pay to ship the radio to us, and we will pay to ship the radio back to you. Since we use UPS and they do not deliver to Post Offices boxes, please provide us with a street address for the return of your radio. Be sure to print clearly.

We appreciate your choosing a Galaxy radio and we will make every effort to get you back on the air as soon as possible.

Be sure to visit our web site at: www.GalaxyRadios.com.

