



Model DX 929 Service Manual[©]



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DX 929

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CHAPTER 1 SPECIFICATIONS

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Model DX 929 Channels 40

Frequency Range 26.965 – 27.405 MHz

Emission Modes AM

Frequency Control Phase Lock Loop (PLL) synthesizer

Frequency Tolerance 0.005 %
Frequency Stability 0.001 %
Operating Temperature Range -30° C to $+50^{\circ}$ C Microphone Dynamic PTT, 500°

Input Voltage 13.8V DC
Antenna Connector UHF; SO239

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

Weight 3.4 lbs.

1.1 TRANSMITTER

RF Power Output AM: 4 watts

RF Transmit Modes AM

Modulation High and Low level Class B, Amplitude Modulation

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 $< 0.5 \mu V$

IF Frequency AM: 10.695 MHz 1st IF, 455 KHz 2nd IF

Image Rejection - 50dB Adjacent Channel Selectivity - 60dB

RF Gain Control 45dB adjustable for optimum signal reception

Automatic Gain Control (AGC) Figure Of Merit 100mV for 10dB Change in Audio Output

Squelch Adjustable; threshold less than $0.5\mu V$

Noise Blanker RF type

Audio Output Power2.5W @ 10% THDAudio Frequency Response300 to 2500 HzBuilt-in Speaker8 Ohms, 4 WattsExternal Speaker (Not Supplied)8 Ohms, 4 Watts

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

CHAPTER 2 OPERATION

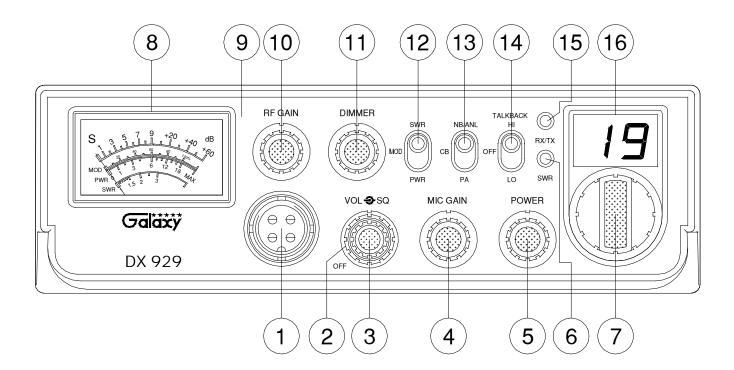


Figure 2-1 Front Panel

2.0 INTRODUCTION

This section explains the basic operating procedures for the DX 929 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. 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.
- **5. POWER CONTROL:** This control allows the user to adjust RF power output.
- **6. 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.
- **7. CHANNEL SELECTOR:** This control is used to select the desired transmit and receive channel.
- **8. FRONT PANEL METER:** The front panel meter allows the user to monitor incoming signal strength, RF output power, SWR level and AM modulation level.
- **9. 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.
- **10. RF GAIN CONTROL:** This control is used to reduce the gain of the RF (receive) amplifier under strong signal conditions.
- **11. DIMMER CONTROL:** This knob controls the level of brightness for the faceplate lettering, meter lamp and channel display.
- **12. 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.
- **13. 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.
- **14. TALKBACK SWITCH:** This feature is used to monitor your own voice. For example, you could use this feature to compare different microphones. HI is high volume. LO is low volume. The Talkback circuit is off when the switch is in the OFF position.
- 15. RX/TX LED: This LED is green during receive and red during transmit.
- **16. CHANNEL DISPLAY:** The channel display indicates the current selected channel.

REAR PANEL

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

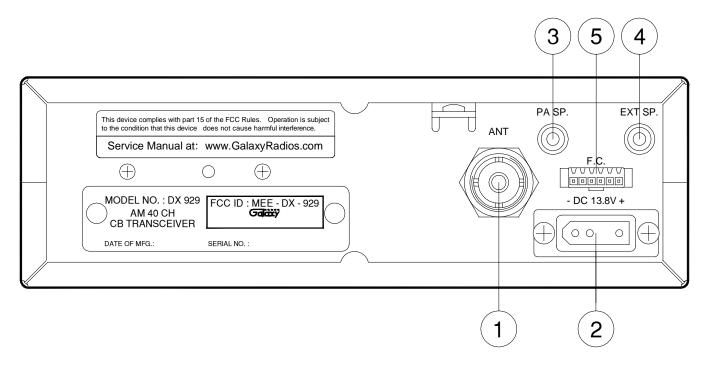


Figure 2-2 Rear Panel

- 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 push-to-talk switch on the microphone controls the receiver and transmitter. Press the switch and the transmitter is activated, release switch to receive. When transmitting, hold the microphone two inches from your mouth and speak clearly in a normal voice. This transceiver comes complete with a low impedance 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. Turn **VOL** knob clockwise 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.

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).

4	W]	IRE	MIC	CABL	Æ
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Pin Number	Mic Cable Lead
1	Audio Shield
2	Audio Lead
3	Transmit Control
4	Receive Control

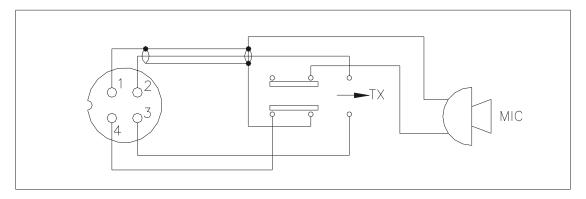


Figure 2-3 Your Transceiver Microphone Schematic

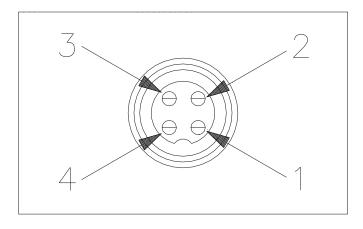


Figure 2-4 Microphone plug and pin numbers viewed from rear of pin receptacle.

DX 929



3.0 INTRODUCTION

This section explains the technical theory of operation for the DX 929 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

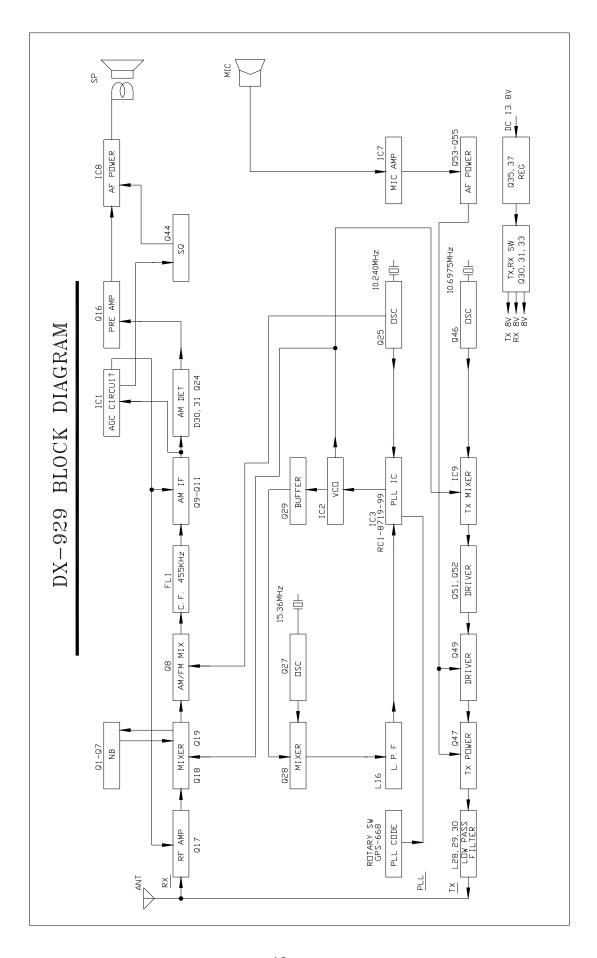
The incoming RF signal comes into the radio via the antenna and into the front-end pre-amp, Q17. The RF signal is fed into the mixer circuit of Q18/Q19 and then into the AM IF section of the receiver. The signal is then detected by the AM detector and then fed to the audio amplifier section of the receiver 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) The AF power amplifier modulates the last RF amplifier, which produces a true amplitude modulated RF signal.

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)
- **10** 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 14 for adjustment locations.

4.1.1 PLL ALIGNMENT

ITEM	U.U.T. SETTING	ADJUST POINT	MEASUREMENT
VCO	Set radio to CH 1 AM RX mode. Connect Multi-meter to TP2.		$2.5 \text{ VDC} \pm 0.1$
	Connect Oscilloscope to TP3.		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
AM OSC	Set radio to CH 19 AM TX mode. Connect Frequency Counter to TP5.	L23	10.6950MHz ± 10Hz

4.1.2 TRANSMITTER ALIGNMENT

ITEM	U.U.T. SETTING	ADJUST POINT	MEASUREMENT
TX Power	Set radio to CH 19 AM TX mode.	L40, L42,	MAX > 12W
	Connect RF Power Meter to antenna jack.	L43, L44	Balance Power
	Set SWR/MOD/PWR Switch to PWR.		Between CH. 1 - 40
AM TX	Set radio to CH 19 AM TX mode.		
High Power	Set RF POWER fully clockwise.	VR14	3.8 W
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.	VR9	of "4" on TX PWR
	Set SWR/MOD/PWR Switch to PWR		scale.
	position.		
AM TX	Set radio to CH 19 AM TX mode.		For a needle reading
Modulation	AF signal 30mV, 1 KHz to microphone.	VR16	of 90% on the
	Set MIC Gain fully clockwise.		external modulation
	Set SWR/MOD/PWR Switch to MOD position		meter.
AM Modulation	Modulation Set radio to CH 19 AM TX mode.		For a needle reading
Meter	AF signal 30mV, 1 KHz to microphone.		of 90% 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.	L5, L6,L7,	Audio Output > 2V
	Set SQ fully counter-clockwise.	L8, L9, L10,	S/N > 10 dB.
	Set VOL Control at 2 o'clock.	L2, L3	
	Connect RF SG to antenna jack		
	Frequency 27.185 MHz, 1uV. Mod 30%.		
	Set radio to CH 40 AM RX mode.		
	RF SG setting 27.405 MHz.	L5,L6	For Balance Between
	Set radio to CH 1 AM RX mode.		CH 1 and CH 40.
	RF SG setting 26.965 MHz.		
NB Adjust	Set radio to CH 19 AM RX mode		
-	RF SG setting 27.205 MHz,	L1	DC Voltage to max.
	100uV. Mod 30%.		(> 2.0V)
	Set switch to NB/ANL position.		
	Connect Multi-meter to TP1 (D2 cathode).		
AM Squelch	Set radio to CH 19 AM RX mode.		Adjust very slowly
	Set SQ Control fully clockwise.	VR4	until squelch just
	RF SG setting 27.185 MHz, 20mV. Mod 30%.		closes.
AM S-Meter	Set radio to CH 19 AM RX mode.		For a reading of "9"
	RF SG setting 27.185 MHz, 100uV. Mod 30%.	VR1	on the "S" scale.

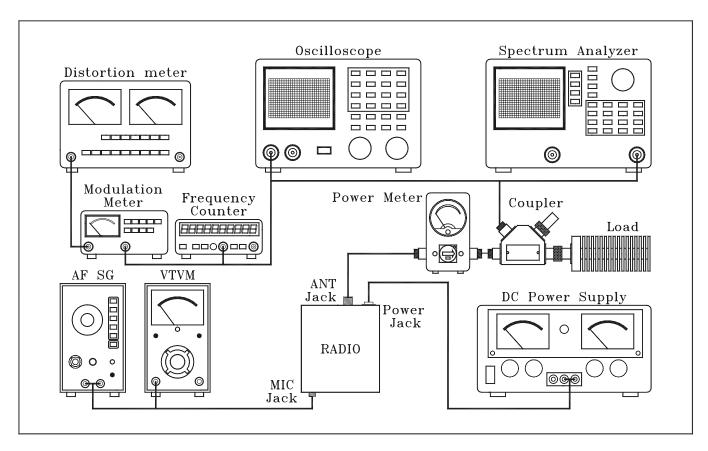


Figure 4-1 Transmitter test setup

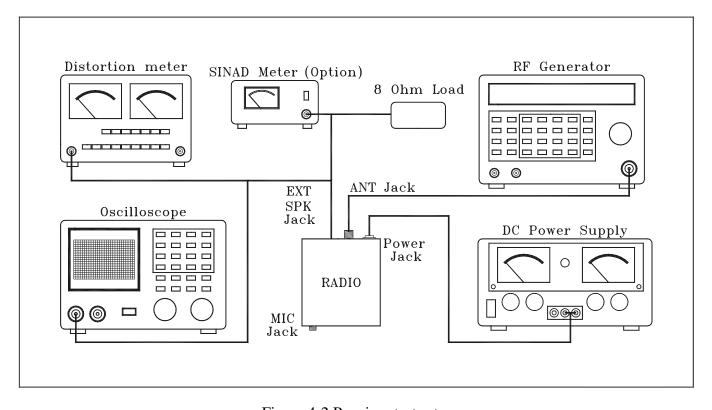
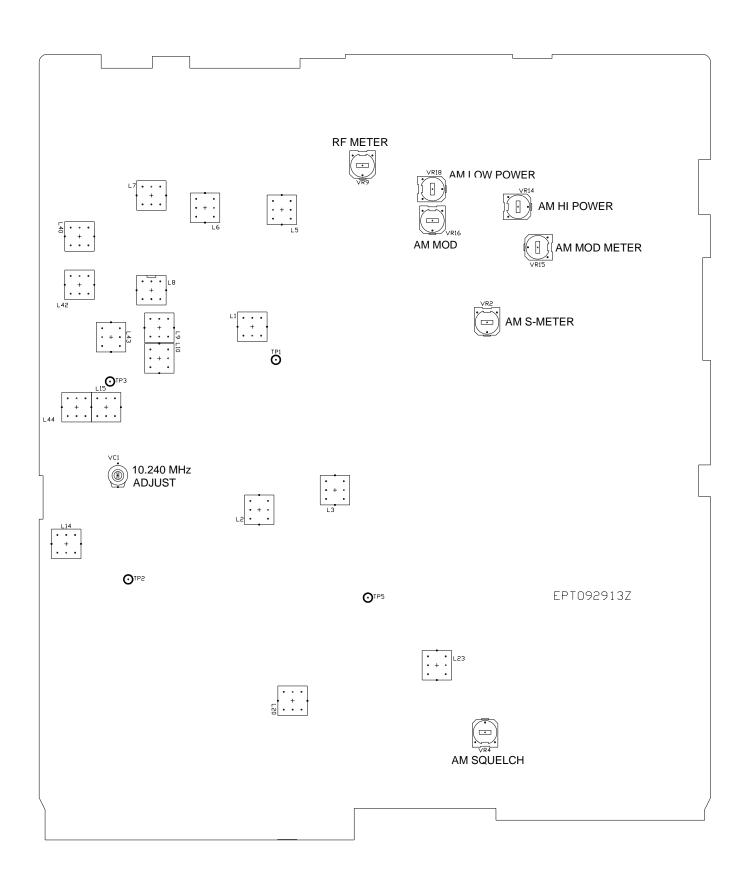


Figure 4-2 Receiver test setup

DX 929 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.

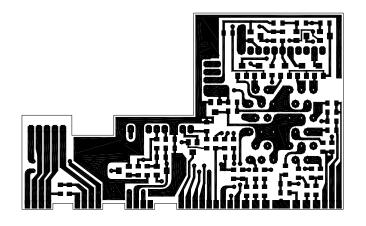
DX 929

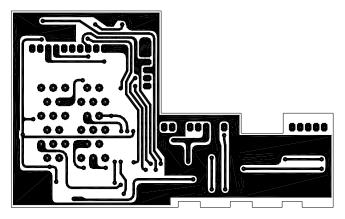
CHAPTER 6
DIAGRAMS &
PARTS LIST

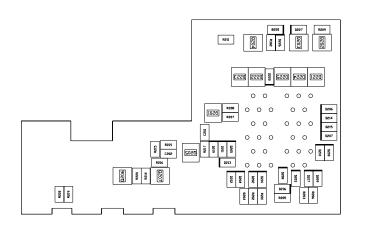
6.0 GENERAL

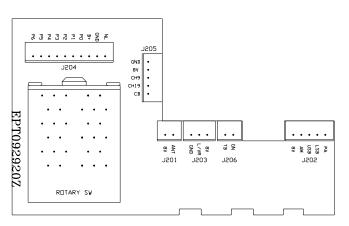
Information on most electrical and mechanical parts is included in the parts list. The reference designators are in alphanumeric order.

DX 929 ROTARY SWITCH PCB (EPT092920Z)









(SMD-COPPER SIDE)

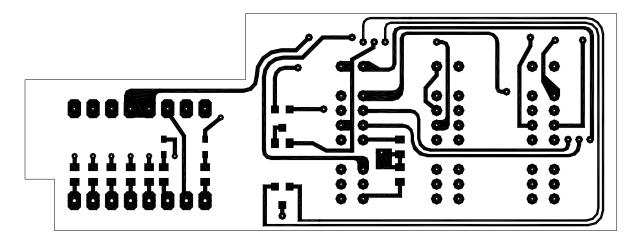
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PART LIST:

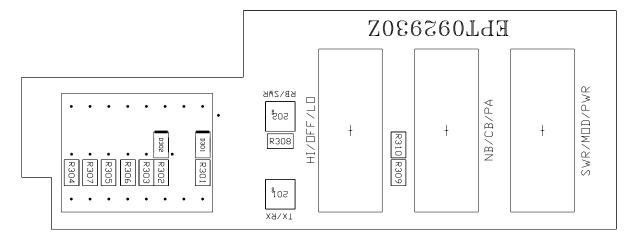
DX 929 ROTARY SW. P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT092920Z	ROTARY SW PCB
2	R207,R210,R218,R219	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	RCP160004Z	C/F/R 0.0 Ω 1/16W

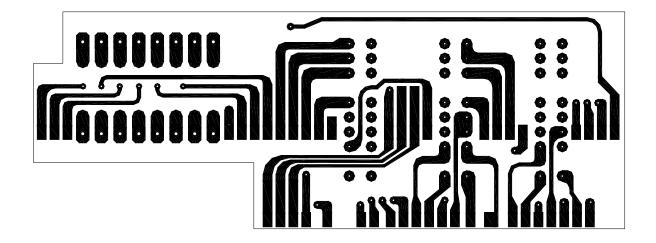
DX 929 DISPLAY PCB (EPT092930Z)



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(COMPONENT SIDE)



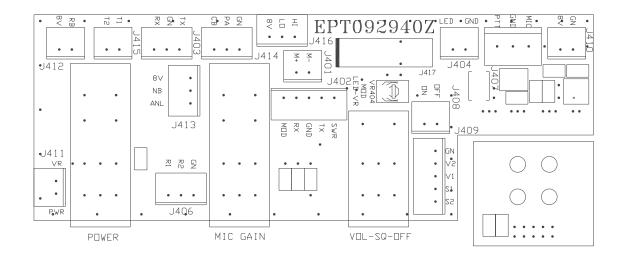
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PART LIST:

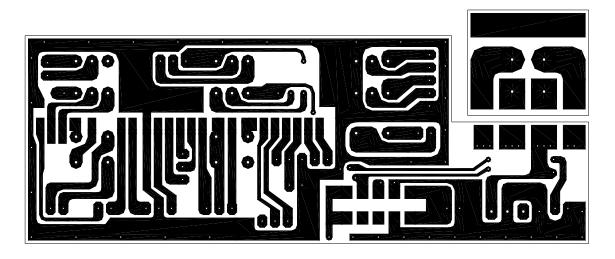
DX 929 DISPLAY P.C.B

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		
3	R308	RCY011024Z	CHIP/F/R 1K Ω 0.1W
4	R310	RCY012224Z	CHIP/F/R 2.2K Ω 0.1W
5	R309	RCY012234Z	CHIP/F/R 22K Ω 0.1W
6	D301,D302	EDSS00355Y	DIODE 1SS355
7	LED201,LED202	EX01Y40114	LED LAMPS KM-23ESGC
8	DISPLAY	EX03N40419	LED DISPLAY TX-566
9	HI/OFF/LO,NB/CB/PA,	EWSL31027K	SLIDE SW. 3N
	SWR/MOD/PWR		

DX 929 (POWER/MIC GAIN/VOL-SQ CONTROL) VR PCB (EPT092940Z)



(COMPONENT SIDE)

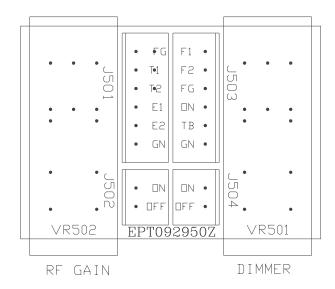


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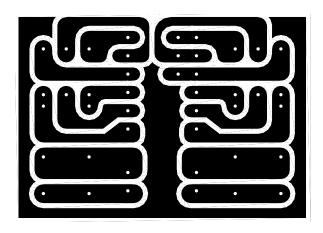
PART LIST:DX 929 POWER/MIC GAIN/VOL-SQ CONTROL, VR P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT092940Z	VR PCB
2	SH3027	RCY010004Z	CHIP/F/R 0.0 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	L402	YCTLI5653C	CHOKE COIL 5.6uH
7	L401	YCBAD18581	BEAD FERRITE COIL WB-403025
8	Q902	TYDTA124EA	T/R DTA124EUAT106
9	MIC GAIN	RV10203529	VR 1KA
10	VOL-SQ-OFF	RV50303522	V/R 50KB/50KA W/SW
11	POWER	RV50203525	VR 5KB
12	J401,J408,J410,J411, J415	EX07N48223	PCB CONN/S 2PIN
13	J403,J413	EX07N48350	PCB CONN/S 3PIN
14	J414	EX07W48824	PCB CONN/S 3PIN
15	J407	EX07N41216	PCB CONN/S 3PIN
16	J402	EX07N48222	PCB CONN/S 5PIN
17	J409	EX07W48826	PCB CONN/S 5PIN

DX 929 (RF GAIN/DIMMER CONTROL) VR PCB (EPT092950Z)



(COMPONENT SIDE)



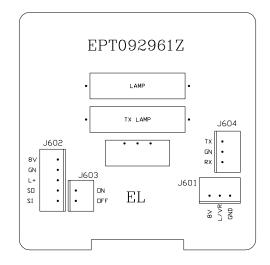
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PART LIST:

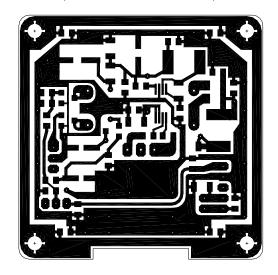
DX 929 RF GAIN/DIMMER CONTROL, VR P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT092950Z	TB PCB
2	VR501 (DIMMER)	RV50203525	VR 5KB
3	VR502 (RF GAIN)	RV10203528	VR 1KB
4	J501	EX07W48824	PCB CONN/S 3 PIN
5	J503	EX07N48350	PCB CONN/S 3 PIN

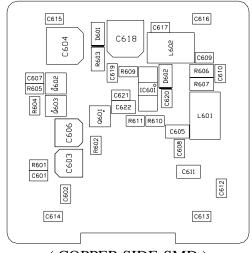
DX929 METER PCB (EPT092961Z)



(COMPONENT SIDE)



(COPPER SIDE)



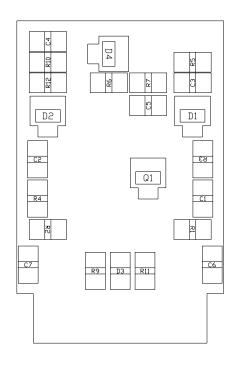
(COPPER SIDE-SMD)

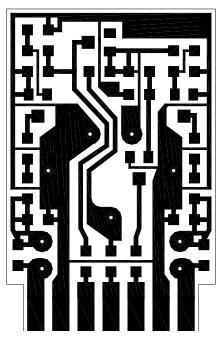
DX 929 METER PCB (Dimmer Circuit)

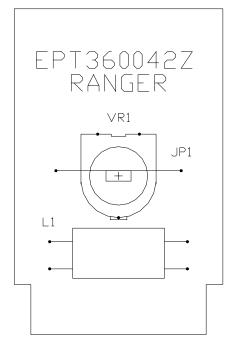
PART LIST:

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1	TYCHIDDIX	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
4	R605	RCY013324Z	CHIP/F/R 3.3KΩ 0.1W
5	R604,R611	RCY011034Z	CHIP/F/R 10KΩ 0.1W
6	R601	RCY011234Z	CHIP/F/R 12KΩ 0.1W
7	R602	RCY014734Z	CHIP/F/R 47KΩ 0.1W
7	R609	RCY011844Z	CHIP/F/R 180KΩ 0.1W
8	C602,C609,C613,C614, C615,616	CK1103AB5X	CHIP/C 0.01uF 50WV
9	C601,C607,C608,C610, C612,620	CK1104AB5X	CHIP/C 0.1uF 50WV
10	C619	CK5105AB7R	CHIP/C 1uF 16WV
11	C621	CK1473AB5X	CHIP/C 0.047uF 50WV
12	C617	CK2474AB7R	CHIP/C 0.47uF 25WV
13	C605,C611	CK5475AA7R	CHIP/C 4.7uF 16WV
14	C622	CTY161066A	T/C 10uF 16WV
15	C603,C606	CEY164767Z	E/C 47uF 16WV
16	C604,C618	CEY251077Z	E/C 100uF 25WV
17	IC601	YNSN8144BV	IC SM818144BV
18	D601	EDZD05519Y	ZENER DIODE RLZ5.1BT6-11
19	D602	ED1N04148Y	DIODE 1N4148
20	Q601,Q602	TY2SC2712G	T/R 2SC2712GR-TE85L
21	Q603	TYDTC124EA	T/R DTC124EUAT106
22	L602	YCTLI2274E	CHOKE COIL 220uH
23	L601	YCTLI4774E	CHOKE COIL 470uH
24	LAMP	EX02N40230	LAMP 0.05 12V
25	EL(SH3024)	EX07N49373	PCB CONN/S 3 PIN
26	J603	EX07N48223	PCB CONN/S 2 PIN
27	J601	EX07N48350	PCB CONN/S 3 PIN
28	J602	EX07N48222	PCB CONN/S 5 PIN

DX929 ANTENNA PCB (EPT360042Z)







(COPPER SIDE-SMD)

(COPPER SIDE)

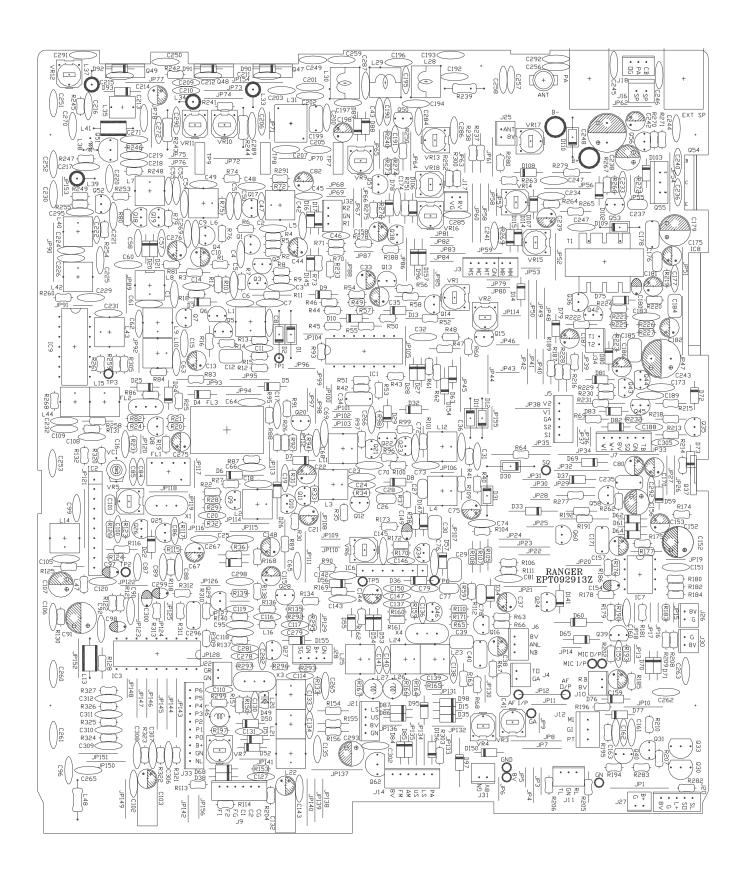
(COMPONENT SIDE)

PART LIST:

DX 919 ANT P.C.B

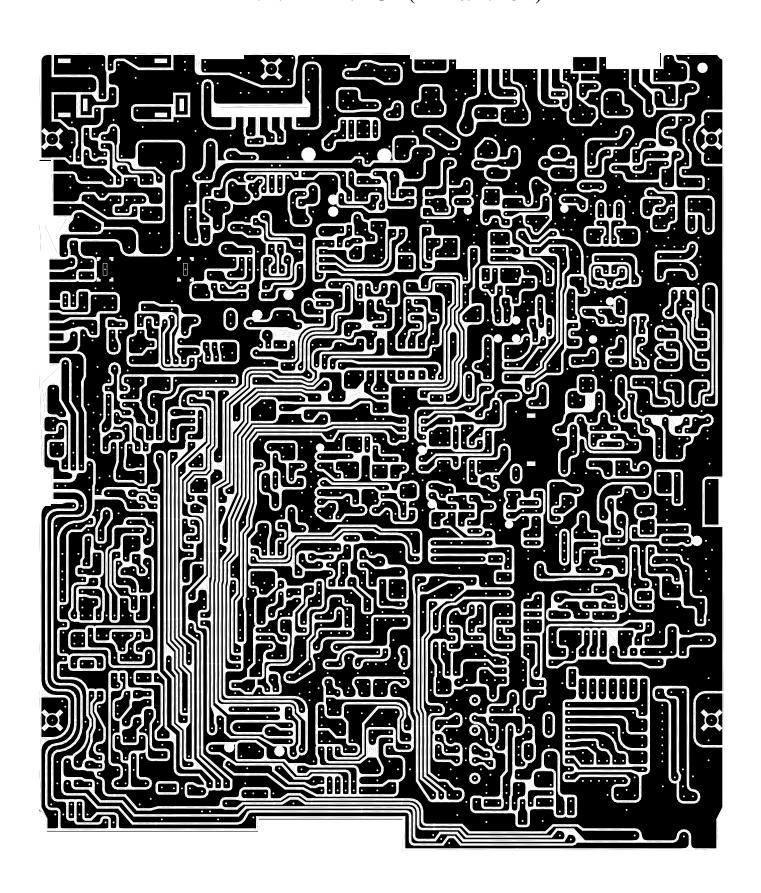
ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT360042Z	ANT P.C.B
2	R9	RCY010004Z	0 OHM 0.1W
3	R1	RCY014714Z	470 OHM 0.1W
4	R3,R4	RCY011014Z	100 OHM 0.1W
5	R2	RCY013314Z	330 OHM 0.1W
6	R5,R11	RCY011024Z	1K OHM 0.1W
7	R10,R12	RCY012224Z	2.2K OHM 0.1W
8	R7,C5	RCY011034Z	10K OHM 0.1W
9	C7	CK1059AB1A	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 929 MAIN PCB (EPT092913Z)



(COMPONENTS SIDE)

DX 929 MAIN PCB (EPT092913Z)



(COPPER SIDE)

PART LIST DX 929 MAIN PCB

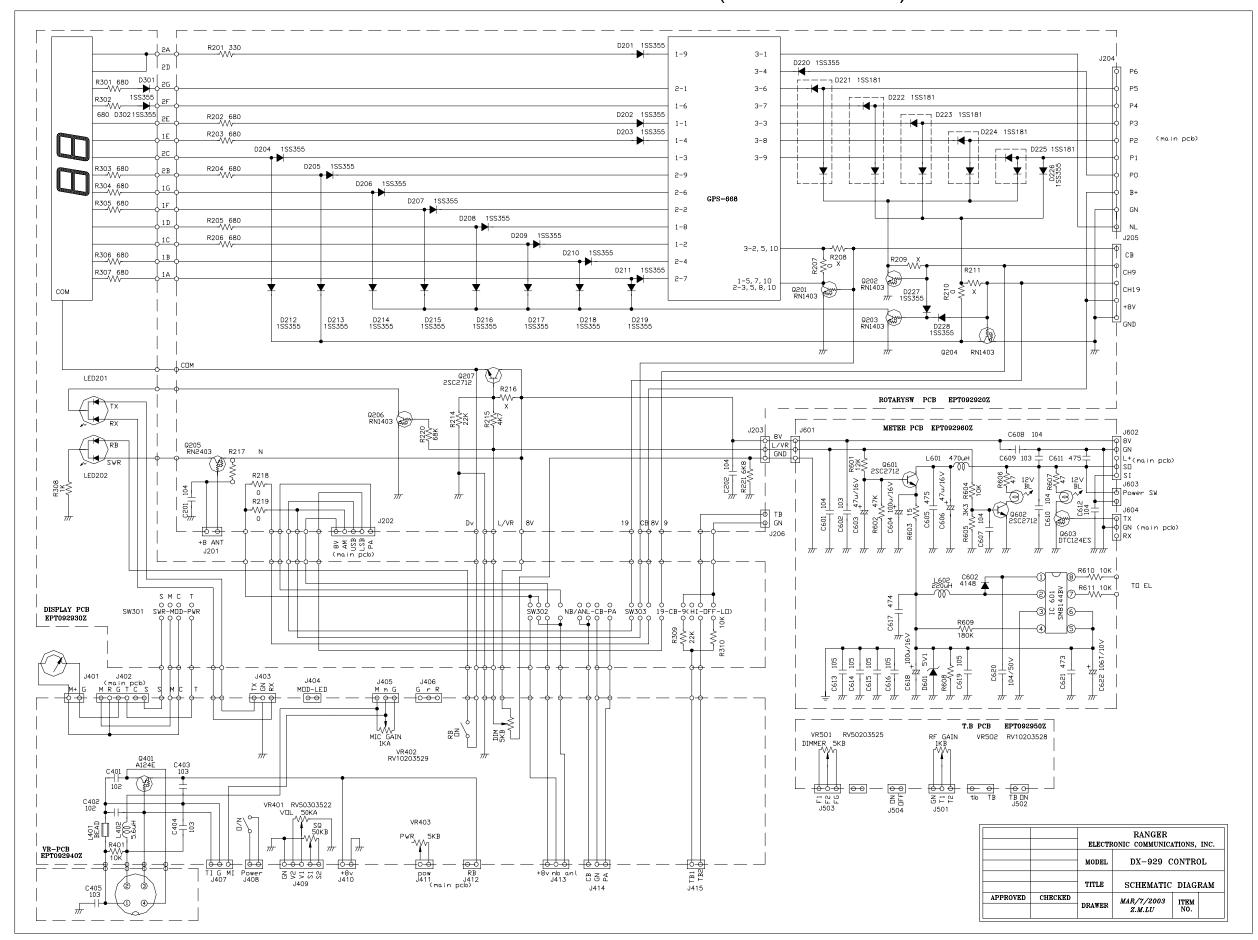
REFERENCE NUMBER	RANGER PART NO.	DESCRIPTION
	EPT092913Z	MAIN PCB
R19,305,258(B239)	RCP160004Z	$0~\Omega~1/16W$
R246	RCP161004Z	$10~\Omega~1/16W$
R267,241(B236)	RCP161504Z	150 Ω 1/16W
R133,213,253,282	RCP164704Z	47 Ω 1/16W
R130,215,220,249	RCP165604Z	56 Ω 1/16W
R11	RCP166804Z	68 Ω 1/16W
R5,8,30,33,76,81,174,260	RCP161014Z	100 Ω 1/16W
R32,245(B236)	RCP161514Z	150 Ω 1/16W
R23	RCP161814Z	180 Ω 1/16W
R140,163,177,259(B239)	RCP162214Z	220 Ω 1/16W
R31	RCP162714Z	270 Ω 1/16W
R6,10,16,24,248,254,300	RCP163314Z	330 Ω 1/16W
R188,268,293	RCP164714Z	470 Ω 1/16W
R266	RCP165614Z	
R4,50,209,89	RCP166814Z	560 Ω 1/16W
R74	RCP168814Z	680 Ω 1/16W 820 Ω 1/16W
R62,64,67,72,115,116,118, 122,123,136-138,160,164, 179,186,189,205,206,214, 303,232,237,261,269,291, 292,295,320,VR12(B236)	RCP161024Z	1K Ω 1/16W
R192	RCP161224Z	1.2K Ω 1/16W
R132,207,233,247, 255,273,79,80	RCP161524Z	1.5K Ω 1/16W
R226	RCP161824Z	1.8K Ω 1/16W
R20,27,71,75,134, 162,283,313	RCP162224Z	2.2K Ω 1/16W
R9,25,28,121	RCP162724Z	2.7K Ω 1/16W
R18,22,66,73,128, 191,219,274	RCP163324Z	3.3K Ω 1/16W
R52,57	RCP163924Z	3.9K Ω 1/16W
R26,165,190,195,196,131	RCP164724Z	4.7K Ω 1/16W
R264,265	RCP165624Z	5.6K Ω 1/16W
R14,40,41,70,82,312	RCP166824Z	6.8K Ω 1/16W
R275	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	RCP161034Z	10K Ω 1/16W
R178,310	RCP161234Z	12K Ω 1/16W
R180	RCP161534Z	15K Ω 1/16W
R187,208	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, 222,224	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, 112,182,184,221,225,278	RCP161044Z	100K Ω 1/16W
R47,117,135,139,194	RCP162244Z	220K Ω 1/16W
R49,55,176	RCP162744Z	270K Ω 1/16W
R15,111,183	RCP164744Z	470K Ω 1/16W
R48	RCP164744Z RCP168244Z RCP161054Z	820K Ω 1/16W
R48 R106	RCP168244Z RCP161054Z	820K Ω 1/16W 1M Ω 1/16W
R48 R106 R193	RCP168244Z RCP161054Z RCP161554Z	820K Ω 1/16W 1M Ω 1/16W 1.5M Ω 1/16W
R48 R106 R193 R124	RCP168244Z RCP161054Z RCP161554Z RCP161064Z	820K Ω 1/16W 1M Ω 1/16W 1.5M Ω 1/16W 10M Ω 1/16W
R48 R106 R193 R124 R244(B236)	RCP168244Z RCP161054Z RCP161554Z RCP161064Z RCP141514Z	$820K \Omega 1/16W \\ 1M \Omega 1/16W \\ 1.5M \Omega 1/16W \\ 10M \Omega 1/16W \\ 150 \Omega 1/4W$
R48 R106 R193 R124 R244(B236)	RCP168244Z RCP161054Z RCP161554Z RCP161064Z RCP141514Z RCP121034Z	$820K \Omega 1/16W \\ 1M \Omega 1/16W \\ 1.5M \Omega 1/16W \\ 10M \Omega 1/16W \\ 10M \Omega 1/16W \\ 150 \Omega 1/4W \\ 10K \Omega 1/2W$
R15,111,183 R48 R106 R193 R124 R244(B236) R239	RCP168244Z RCP161054Z RCP161554Z RCP161064Z RCP141514Z RCP121034Z CC0508204L	820K Ω 1/16W 1M Ω 1/16W 1.5M Ω 1/16W 10M Ω 1/16W 150 Ω 1/4W 10K Ω 1/2W 82PF 50WV
R48 R106 R193 R124 R244(B236) R239 C8	RCP168244Z RCP161054Z RCP161554Z RCP161064Z RCP141514Z RCP121034Z CC0508204L CC0501015L	820K Ω 1/16W 1M Ω 1/16W 1.5M Ω 1/16W 10M Ω 1/16W 150 Ω 1/4W 10K Ω 1/2W 82PF 50WV 100PF 50WV
R48 R106 R193 R124 R244(B236) R239	RCP168244Z RCP161054Z RCP161554Z RCP161064Z RCP141514Z RCP121034Z CC0508204L	820K Ω 1/16W 1M Ω 1/16W 1.5M Ω 1/16W 10M Ω 1/16W 150 Ω 1/4W 10K Ω 1/2W 82PF 50WV

C80,181	CE0252267Z	22UF 25WV
C00 101	CE02522CET	(CV38D2001)
VC1	CV038200AZ	TRIMMER/C 20P
C13,21,22,44,82,115,158,275, 276,239	CE0251067Z	10UF 25WV
C103,182	CE0504757Z	4.7UF 50WV
C159,214	CE0502257Z	2.2UF 50WV
C67,75,153,157,170,186,187	CE0501057Z	1UF 50WV
C198	CE0504747Z	0.47UF 50WV
C198	CE0501047Z	50WV 0.1UF 50WV
C12	CM0502225Z	0.0022UF
C34	CM0504735Z	0.047UF 50WV
C176	CM0504725Z	0.0047UF 50WV
C39,185	CM0502235Z	0.022UF 50WV
C184	CM0501035Z	0.01UF 50WV
C237,78	CM0501024Z	0.001UF 50WV
C178,296	CM0501045Z	0.1UF 50WV
C98,180,299,300	CT0161040Z	2.2UF 16WV
C154 C97	CT0162246Z CT0161046Z	0.1UF 16WV
310,311,312,262,216,285 C154	CT01622467	0.22UF 16WV
265,267,269,271,278,298, 188,305,306,307,308,309,		
205,219,229,230,232,241,		
60,109,114,138,161,16,189,		
C2,3,6,9,15,17,19,51,57, 58,	CC0501037L	0.01UF 50WV
C200	CC1001037L	0.022UF 30W V
C155	CC0502237L	50WV 0.022UF 50WV
C32,42,45,46,221,162,163	CC0504727L	0.0047UF
261,263,217,65		
233,240,247,251,253,258,260,		
96,102,105,106,257,151,160,	CC0304/3/L	0.04/UF 30W V
215(B236) C5,18,20,48,87,92,	CC0504737L	0.047UF 50WV
171,235,211(B236),		
249,302,270,177, 292,40,		
213,234,250,256,259,272,		
C81,173,193,206,207, 236,	CC0501047L	0.1UF 50WV
174,183, 244,245,100, 246	CC030102/L	0.00101 JUW V
C199 C7,47,50,95,99,110,118,120,	CD3005614Z CC0501027L	560P 300WV 0.001UF 50WV
C74,85	CC0505615G CD3005614Z	560PF 50WV
C210	CC0504715G	470PF 50WV
C201,203	CC0503915G	390PF 50WV
C86	CC0502715G	270PF 50WV
C220	CC0502215G	220PF 50WV
C281 C282	CC0501015G CC0501815G	100PF 50WV 180PF 50WV
C130	CC0502004G	20PF 50WV
C139	CC0503904D	39PF 50WV
C196,222,295	CC0501815A	150PF 50WV
C194,192	CC0501515A	150PF 50WV
C88,116,117	CC0506804A	68PF 50WV
C195 C202,224,147,150	CC0503904A CC0504704A	39PF 50WV 47PF 50WV
C119,279,226,287	CC0503304A	33PF 50WV
C54,55	CC0502204A	22PF 50WV
C43	CC0501804A	18PF 50WV
C84,89	CC0501504A	15PF 50WV
C108,1,49	CC0501004A	10PF 50WV
C61,62,90	CC0500301A CC0500501A	3PF 50WV 5PF 50WV
C225 C218	CC0500201A CC0500301A	2PF 50WV
C52,197	CC0500101A	1PF 50WV
	CC0505615L	560PF 50WV

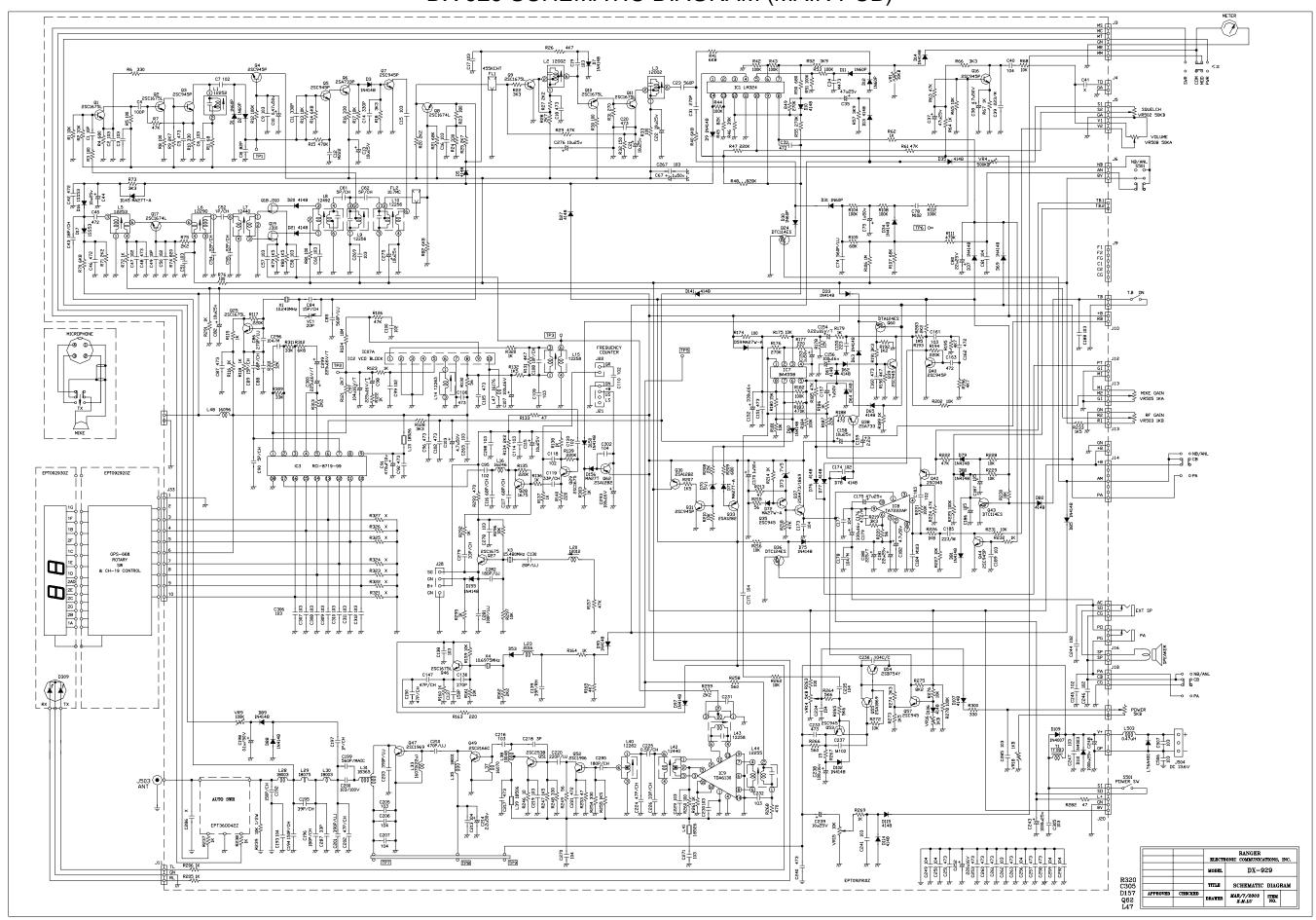
C31,175,38	005 455 00	GD005 IE (EG	
C252 CE0162277Z 220UF 16WV C152,179 CE016377Z 330UF 16WV C243,248 CE0251087Z 1000UF 25WV C35 CEM254767Z 47UF 25WV C35 CEM254767Z 47UF 25WV FL1 EPCFE107MX SFE10.7MX K1 EVCAB10240 10.240MHZ X3 EYBAA15480 15.480 MHZ X4 EYBAE10697 10.6975MHZ IC1 ENSO30524Z LM324 IC3 ENRG871999 RC1-8719A IC7 ENRO4558Z BA4558 IC9(B239) ENRC16130Z RC1-6130 VCO ENNOHICOTA UHICOTA Q81.17 T2SC016741L 2SC167641 Q51 T2SC016741 2SC167641 Q51 T2SC01906Z 2SC1906 Q34.5 T2SC01906Z 2SC1906 Q34.43 TDTC0114ES DTC114ES Q60 TDTA0124ES DTA124ES Q34.57,16,31,35,39,40.42 T2SC001675L 2SC1675L	C37,175,38	CE0254767Z	47UF 25WV
C152,179			
C91 CE0104777Z 470UF 10WV C243,248 CE0251087Z 1000UF 25WV C35 CEM254767Z 47UF 25WV FL1 EFCFM35HT CFW-455HT FL2 EFCFE107MX SFE10,7MX X1 EVCAB10240 10,240MHZ X3 EYBAA15480 15,480 MHZ X4 EYBAB10697 10,6975MHZ 1 IC1 ENSS00324Z LM324 IC3 ENRG871999 RCI-8719A IC7 ENROG4558Z BA4558 IC96239) ENRC16130Z RCI-6130 VCO ENNOHICO7A UHICO7A Q81.17 T2SC01674L 2SC1674L Q51 T2SC02538Z 2SC2538 Q52 T2SC01060Z 2SC1606 Q36 TDTC0124ES DTC124ES Q44,43 TDTC014ES DTC114ES Q60 TDTA0124ES DTC124ES Q33,45,716,31,35,39,40,42 T2SC01675L 2SC1675L Q52 T2SA01869Z 2SA1889 Q13,45,7			
C243,248 CE0251087Z 1000UF 25WV C35 CEM254767Z 47UF 25WV FL1 EFCFW455HT FCW-455HT FL2 EFCFE107MX SFE10.7MX X1 EYCAB10240 10.240MHZ X3 EVBAA15480 15.480 MHZ X4 EVBAE10697 10.6975MHZ 1 IC1 ENSS00324Z LM324 IC3 ENRG871999 RCI-8719A IC7 ENRO04558Z BA4558 IC9(B239) ENRC16130Z RCI-6130 VCO ENNOHICO7A UHICO7A Q8.17 T2SC01674L 2SC1674L Q51 T2SC02538Z 2SC2538 Q52 T2SC01674L 2SC1676L Q51 T2SC02538Z 2SC2538 Q52 T2SC01674L 2SC1676L Q60 TDTC0114ES DTC114ES Q60 TDTA0124ES DTC124ES Q34.45,716,31,35,39,40,42 T2SC01675L 2SC1675L Q3.45,716,31,35,39,40,42 T2SC01675L 2SC1675L			
CEM254767Z			
FL1			
X1			
X3			
X4	X1	EYCAB10240	10.240MHZ
ICL	X3	EYBAA15480	15.480 MHZ
C3	X4	EYBAE10697	10.6975MHZ 1
IC7	IC1	ENSS00324Z	LM324
CO(9B239)			
VCO ENNOHICO7A Q8,17 UHICO7A T2SC01674L 2SC1674L 2SC1674L 2SC1674L 2SC1674L 2SC1676L 2SC25382 Q52 UHICO7A T2SC01906Z 2SC1906 Q52 T2SC01906Z 2SC1906 2SC1906 Q36 TDTC0114ES DTC114ES SC1675L 2SC1			
Q8,17 T2SC01674L 2SC1674L Q51 T2SC02538Z 2SC2538 Q52 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 T2SC01675L 2SC1675L Q3,4,5,7,16,31,35,39,40,42, T2SC00945P 2SC945P 44,53,57 T2SA01869Z 2SA1869 Q18,19 FMOJ00310Z F.E.T J310 D3-5,7,9,10,13,14,20,21,27, ED1NM4148Z 1N4148 96,33-35,37,53,60-65,69, 75-81,88,89,102,106,107,141, 150,97,82,155,85,95,115,114, 90(B236),92(B236),93(B236) D1,2,11,12,30,31 ED1N04007Z 1N4003 D109 ED1N04007Z 1N4007 D16,17 EDSS00053Z 1SS53 D59,72 EDMA00027W MA27T-A D70 EDZD05519Z 5.1V 0.5W D73 EDZD05519Z 5.1V 0.5W L2,3 ECIFT12020			
Q51 T2SC02538Z 2SC2538 Q52 T2SC01906Z 2SC1906 Q36 TDTC0124ES DTC124ES Q24,43 TDTC0114ES DTC114ES Q30,33,62 T2SA0128E 2SA1282AE Q1,2,91,011,25,28,29,46,27 T2SC01675L 2SC1675L Q3.4,5.7,16,31,35,39,40,42 T2SC00945P 2SC945P 44,53,57 Q6,38 T2SA0173P 2SA733P Q55 T2SA01869Z 2SA1869 Q18,19 FMOJ00310Z F.E.T J310 D3-5,79,10,13,14,20,21,27, BOLNM4148Z IN4148 96,33-35,37,53,60-65,69, FS-81,88,89,102,106,107,141, 150,97,82,155,85,95,115,114, 90(B236),92(B236),93(B236) BDIN04007Z IN4007 D1,2,11,12,30,31 EDIN04003Z IN4003 D16,17 EDSS00053Z ISS3 D59,72 EDMA00027W MA27W-A D71,145,156 EDMA00027T MA27T-A D73 EDZD05759Z 7.5V 0.5W L2,3 ECIFT12002 TMC-7172ABW L6 ECIFT1225<			
Q52 T2SC01906Z 2SC1906 Q36 TDTC0114ES DTC124ES Q24,43 TDTC0114ES DTC114ES Q60 TDTA0124ES DTC114ES Q30,33,62 T2SA01282E 2SA1282AE Q1,2,9,10,11,25,28,29,46,27 T2SC01675L 2SC1675L Q3,4,5,7,16,31,35,39,40,42 T2SC00945P 2SC945P 44,53,57 2SA00733P 2SA733P Q55 T2SA01869Z 2SA1869 Q18,19 FMOJ00310Z F.E.T J310 D3-5,7,9,10,13,14,20,21,27, BDINM4148Z IN4148 96,33-35,37,53,60-65,69, 75-81,88,89,102,106,107,141, 150,97,82,155,85,95,115,114, 90(B236),92(B236),93(B236) DD10 EDIN04003Z IN4003 D110 EDIN04007Z IN4003 IN4003 D109 EDIN04007Z IN4003 IN4003 D109 EDIM04007Z MA27W-A D71,145,156 EDMA00027T MA27W-A D73 EDZD05519Z 5.1V 0.5W D73 EDZD05759Z 7.5V 0.5W			
Q36 TDTC0124ES DTC114ES Q24,43 TDTC0114ES DTC114ES Q60 TDTA0124ES DTA124ES Q30,33,62 T2SA01282E 2SA1282AE Q1,2,9,10,11,25,28,29,46,27 T2SC01675L 2SC1675L Q3,4,5,7,16,31,35,39,40,42, T2SC00945P 2SC945P Q44,53,57 G6,38 T2SA01869Z 2SA1869 Q18,19 FMOJ00310Z FE.T J310 D3-5,7,9,10,13,14,20,21,27, EDINM4148Z IN4148 96,33-35,37,53,60-65,69, FS-81,88,89,102,106,107,141, 150,97,82,155,85,95,115,114, 90(B236),92(B236),93(B236) BDIN04003Z IN4003 D10 EDIN04003Z IN4003 D16,17 EDSS00053Z ISS53 D59,72 EDMA00027W MA27W-A D71,145,156 EDMA00027W MA27W-A D71,145,156 EDMA00027W MA27T-A D70 EDZD05519Z 5.1V 0.5W L2,3 ECIFT12002 TMC-7172ABW L6 ECIFT12002 TMC-7172ABW L6 ECIFT			
Q24,43 TDTC0114ES DTC114ES Q60 TDTA0124ES DTA124ES Q30,33,62 T2SA01282E 2SA1282AE Q1,2,9,10,11,25,28,29,46,27 T2SC01675L 2SC1675L Q3,4,5,7,16,31,35,39,40,42 T2SC00945P 2SC945P 44,53,57 C6,38 T2SA00733P 2SA733P Q55 T2SA01869Z 2SA1869 Q18,19 FMOJ00310Z F.E.T J310 D3-5,7,9,10,13,14,20,21,27, e03,3-35,37,53,60-65,69, 75-81,88,89,102,106,107,141, 150,97,82,155,85,95,115,114, 90(B236),92(B236),93(B236) 1N4048 D110 EDIN04003Z IN4003 D109 EDIN04007Z IN4007 D16,17 EDSS00053Z ISS53 D59,72 EDMA00027W MA27W-A D71,445,156 EDMA00027T MA27T-A D70 EDZD05519Z 5.1V 0.5W D73 EDZD05579Z 7.5V 0.5W L2,3 ECIFT12002 7MC-7172ABw L6 ECIFT12201 I.F.T. L23 ECIFT12255 I.F.T. L44 ECIFT12255			
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L33,37 ECCHK16070 22UH L47 ECCHK16176 4.7UH L16 ECCHK16246 22UH L30 ECSPG18003 SPRING COIL L29,28(B236) ECSPG18075 SPRING COIL L31 ECSPG18365 SPRING COIL L35 ECSPG18001 SPRING COIL L38 ECRFZ10048 25 UH L39 ECBAD18506 BEAD COIL			
L47 ECCHK16176 4.7UH L16 ECCHK16246 22UH L30 ECSPG18003 SPRING COIL L29,28(B236) ECSPG18075 SPRING COIL L31 ECSPG18365 SPRING COIL L35 ECSPG18001 SPRING COIL L38 ECRFZ10048 25 UH L39 ECBAD18506 BEAD COIL			
L16 ECCHK16246 22UH L30 ECSPG18003 SPRING COIL L29,28(B236) ECSPG18075 SPRING COIL L31 ECSPG18365 SPRING COIL L35 ECSPG18001 SPRING COIL L38 ECRFZ10048 25 UH L39 ECBAD18506 BEAD COIL			
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L29,28(B236) ECSPG18075 SPRING COIL L31 ECSPG18365 SPRING COIL L35 ECSPG18001 SPRING COIL L38 ECRFZ10048 25 UH L39 ECBAD18506 BEAD COIL			
L31 ECSPG18365 SPRING COIL L35 ECSPG18001 SPRING COIL L38 ECRFZ10048 25 UH L39 ECBAD18506 BEAD COIL			
L35 ECSPG18001 SPRING COIL L38 ECRFZ10048 25 UH L39 ECBAD18506 BEAD COIL			
L38 ECRFZ10048 25 UH L39 ECBAD18506 BEAD COIL			
L39 ECBAD18506 BEAD COIL			
L41,13 ECBAD18526 BEAD COIL	L39		BEAD COIL
	L41,13	ECBAD18526	

VR16,18	RE10200041	S/F/R 1K
		VM6CK
VR14	RE50200042	S/F/R 5K
		VM6CK
VR1,15	RE10300031	S/F/R 10K
		VM6CK
VR9	RE10400043	S/F/R 100K
		VM6CK
VR4	RE50400087	S/F/R 500K Ω
MIC I/P,Q14 C&E(SH3028)	WX01070702	JUMP WIRE
JP5,14,15,16,17,18,30,35,	WX01070705	JUMP WIRE
36,37,39,63,68,69,75,76,87,88		
,91,92,100,102,103 ,104,108,		
110,114,120,124,125,126,129,		
133,148,19,153,TP8,C131,		
C133,C142,R241,JP9,JP13,		
JP127		
JP31,41,43,46,79,80,82,84,97,	WX01070706	JUMP WIRE
106,155,6		
JP25,57,70,71,96,116,117,	WX01070707	JUMP WIRE
122,123,130,142,207,119,141,		
D25,D50,JP3	************	
JP22,29,132	WX01070708	JUMP WIRE
JP11,20,38,40,42,83,4,IC6,	WX01070709	JUMP WIRE
JP128	1111101050510	HII AD HADE
JP7,10,26,27,44,61,62,65,72,	WX01070710	JUMP WIRE
73,74,78,33,89,95,114,115,		
138,150,151,152,66,67,77,105		
,146,147,149 ID0 21 51 120 06	WW.01070711	HIMD WIDE
JP8,21,51,139,86	WX01070711	JUMP WIRE
JP12,52,140 JP48,111,137,144,154,34,	WX01070712 WX01070713	JUMP WIRE
	W X 010 / 0 / 13	JUMP WIRE
145,8 ID22 02 FL 2 D26	WW01070714	HIMD WIDE
JP32,93,FL3,D26	WX01070714 WX01070715	JUMP WIRE
JP1,47,49,50,54,56,58,90, 121,143	WX010/0/15	JUMP WIRE
TP7-TP8,TP8-TP9	WX01070718	JUMP WIRE
	EX07N48223	P/C/S 2P
J7,17,22,25,31,34 J6,11,18,32	EX07N48350	P/C/S 2P P/C/S 3P
J0,11,16,52 J21	EX07N48490	P/C/S 3P P/C/S 4P
J3,5,20	EX07N48222	P/C/S 5P
J3,3,20 J14	EX07N48331	P/C/S 5P P/C/S 6P
		P/C/S 0P P/C/S 10P
J33 J12	EX07N48209	P/C/S 10P P/C/S 3P
	EX07N41227 EX07N41330	P/C/S 3P P/C/S 2P
SP(J16)		
TP2,3,5	EX07N48612	1PIN L=11.8
PA,EXP SP	EX06N41045	EAR JACK
L503	WX0012015A	TUBE
L504	WH0007005Z	LEAD WIRE

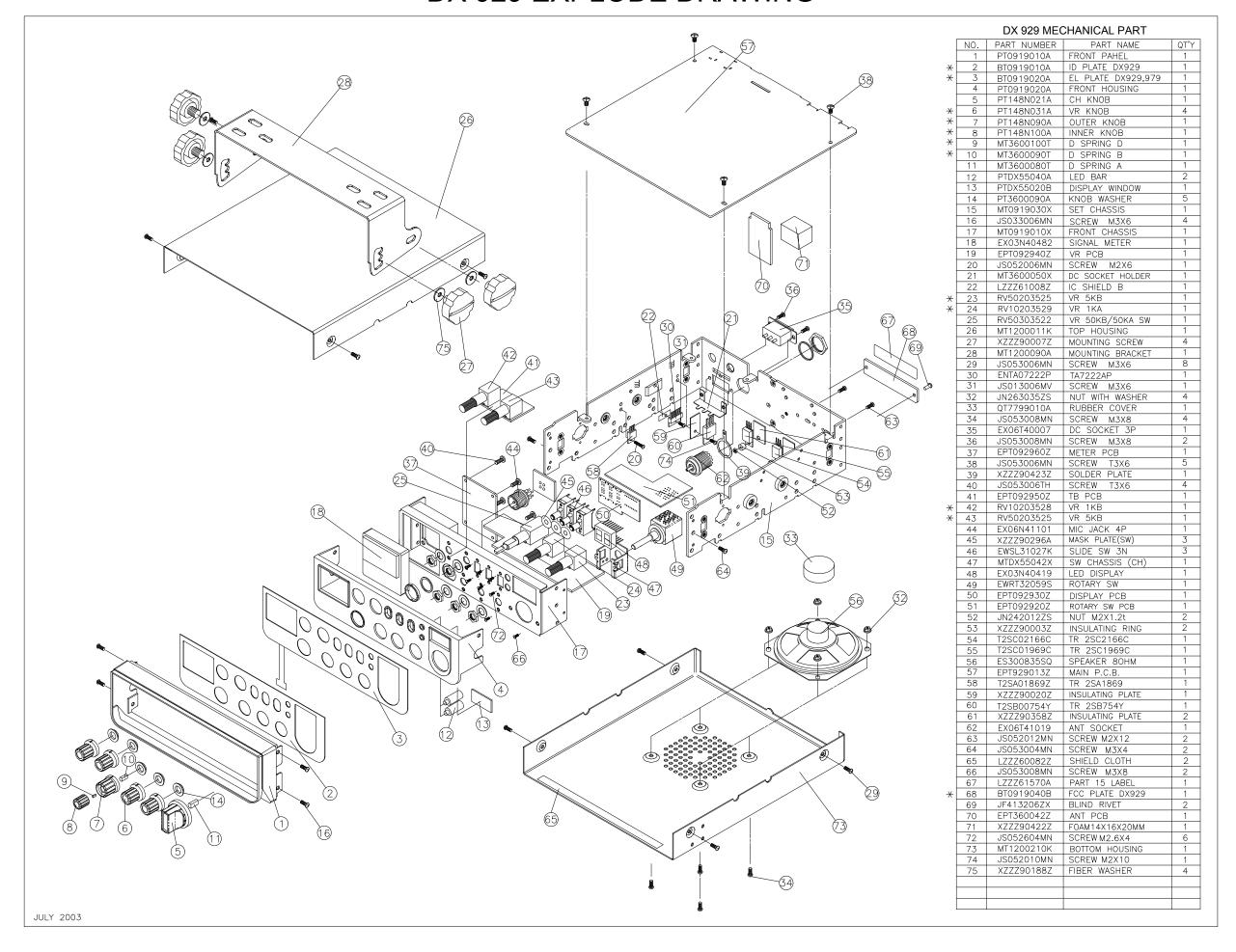
DX 929 SCHEMATIC DIAGRAM (CONTROL PCB)



DX 929 SCHEMATIC DIAGRAM (MAIN PCB)



DX 929 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.

