

CB Radio

Model DX 919 Service Manual[©]



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DX 919

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DX 919

1.0 GENERAL

Model Channels Frequency Range Emission Modes Frequency Control Frequency Tolerance Frequency Stability Operating Temperature Range Microphone Input Voltage Antenna Connector Dimensions Weight

1.1 TRANSMITTER

RF Power Output RF Transmit Modes Modulation Spurious Emissions Carrier Suppression Audio Frequency Response Antenna Impedance Output Indicators

DX 919

40 26.965 – 27.405 MHz AM Phase Lock Loop (PLL) synthesizer 0.005 % 0.001 % -30°C to +50°C Dynamic PTT, 500 Ω 13.8V DC UHF; SO239 7 1/4"(W) x 9"(D) x 2 1/4"(H) 3.4 lbs.

AM : 4 watts
AM
High and Low level Class B, Amplitude Modulation
- 60dB
- 60dB
300 to 2500 Hz
50 Ohms
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 IF Frequency Image Rejection Adjacent Channel Selectivity RF Gain Control Automatic Gain Control (AGC) Figure Of Merit Squelch Noise Blanker Audio Output Power Audio Frequency Response Built-in Speaker External Speaker (Not Supplied)

$< 0.5 \mu V$

AM: 10.695 MHz 1st IF, 455 KHz 2nd IF
- 50dB
- 60dB
45dB adjustable for optimum signal reception
100mV for 10dB Change in Audio Output
Adjustable; threshold less than 0.5μV
RF type
2.5W @ 10% THD
300 to 2500 Hz
8 Ohms, 4 Watts
8 Ohms, 4 Watts

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

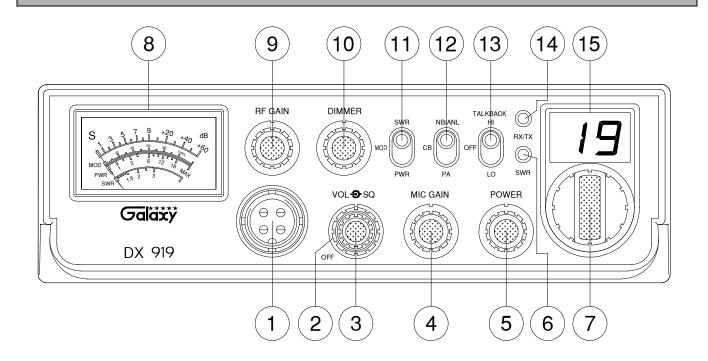


Figure 2-1 Front Panel

2.0 INTRODUCTION

This section explains the basic operating procedures for the DX 919 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. RF GAIN CONTROL

This control is used to reduce the gain of the RF (receive) amplifier under strong signal conditions.

10. DIMMER CONTROL

This knob controls the level of brightness for the meter lamp and channel display.

11. 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.

12. 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.

13. 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.

14. RX/TX LED

This LED is green during receive and red during transmit.

15. CHANNEL DISPLAY

The channel display indicates the current selected channel.

2.1.2 REAR PANEL

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

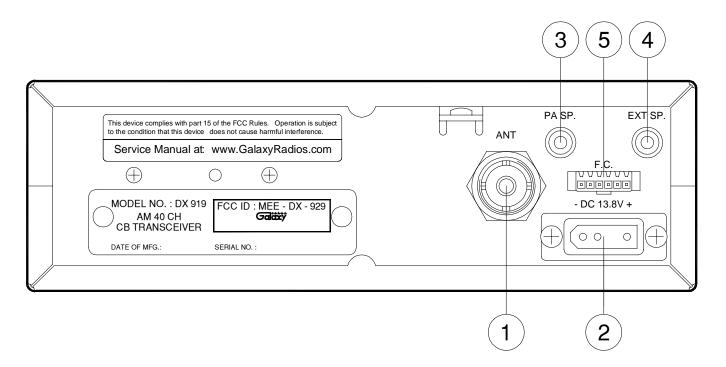


Figure 2-2 Rear Panel

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).

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

4 WIRE MIC CABLE

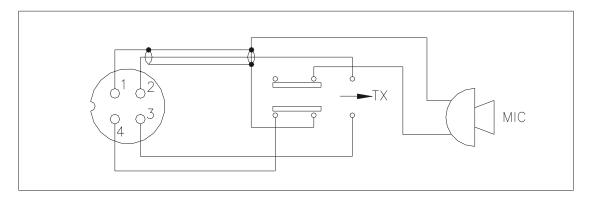


Figure 2-3 Your Transceiver Microphone Schematic

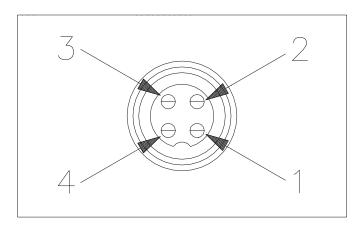


Figure 2-4 Microphone plug and pin numbers viewed from rear of pin receptacle.

3.0 INTRODUCTION

This section explains the technical theory of operation for the DX 919 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

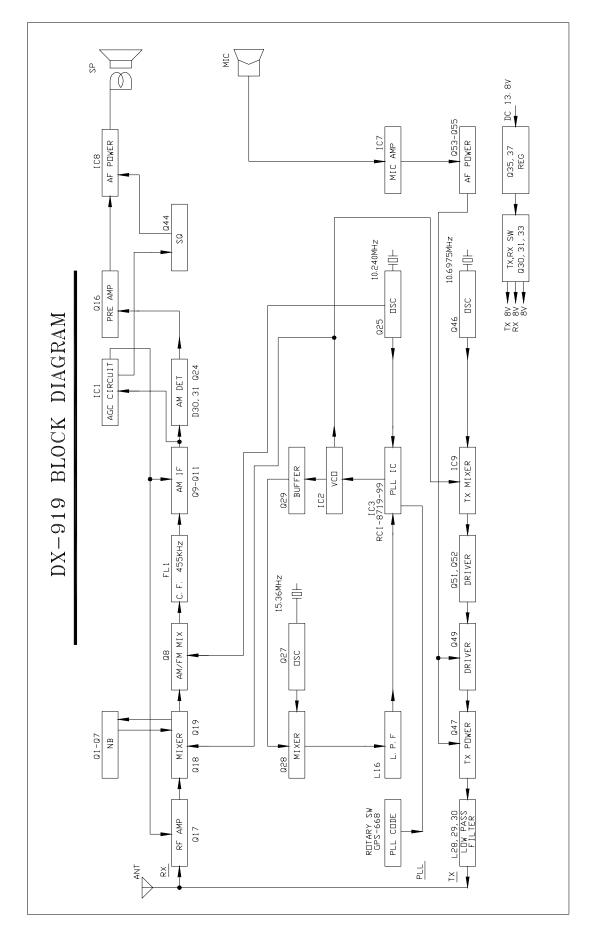
The incoming RF signal comes into the radio via the antenna and into the front-end pre-amp, Q17. The RF signal is fed into the mixer circuit of Q18/Q19 and then into the AM IF section of the receiver. The signal is then detected by the AM detector and then fed to the audio amplifier section of the receiver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



4.0 REQUIRED TEST EQUIPMENT

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

- ⁶ Frequency Counter (100 MHz)
- ⑦ RF Signal Generator (100 MHz)
- ⁽⁸⁾ Automatic Distortion Meter
- Oscilloscope (50 MHz)
- 1 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.

ITEM	U.U.T. SETTING	ADJUST POINT	MEASUREMENT
VCO	Set radio to CH 1 AM RX mode. Connect Multi-meter to TP2.	L14	2.5 VDC ± 0.1
	Connect Oscilloscope to TP3.	L15	Adjust for max.
	Connect Frequency Counter to IC3 Pin 8.	VC1	$10.2400MHz \pm 20Hz$
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

4.1.1 PLL ALIGNMENT

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. Set SWR/MOD/PWR Switch to PWR.	L43, L44	Balance Power Between CH. 1- 40.
AM TX	Set radio to CH 19 AM TX mode.		Detween CII. 1- 40.
High Power	Set modulation to off	VR14	3.8 W
AM TX	Set RF POWER fully clockwise. Set RF POWER fully counterclockwise.	VR18	0.3W±0.2W
Low Power			
RF Power Meter	Set radio to CH 19 AM TX mode. Set RF POWER fully clockwise. Set SWR/MOD/PWR Switch to PWR position.	VR9	For a needle reading of "4" on TX PWR scale.
AM TX Modulation	Set radio to CH 19 AM TX mode. AF signal 30mV, 1 KHz to microphone. Set MIC Gain fully clockwise. Set SWR/MOD/PWR Switch to MOD position	VR16	For a needle reading of 90% on the external modulation meter.
AM Modulation Meter		VR15	For a needle reading of 90% on the 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.

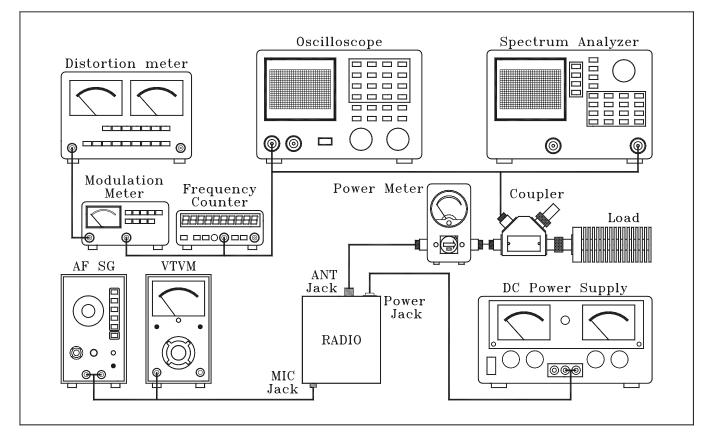


Figure 4-1 Transmitter test setup

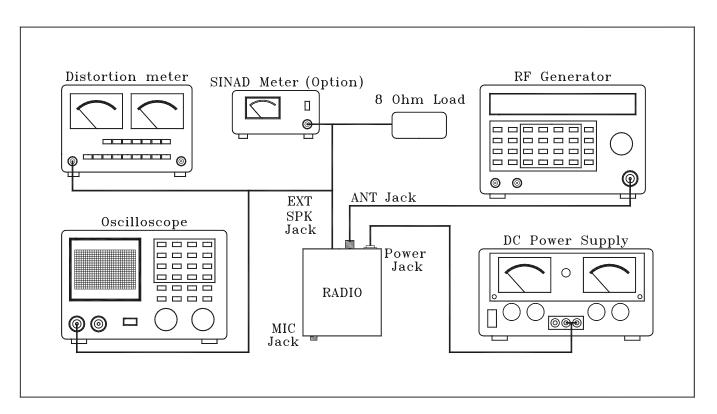
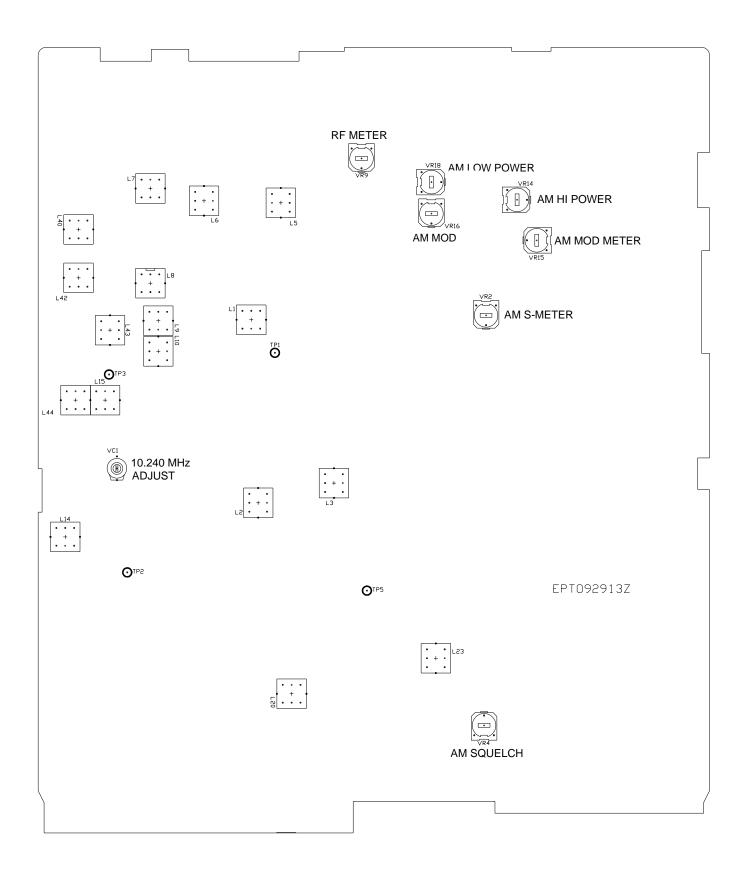


Figure 4-2 Receiver test setup

DX 919 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 VDC.
- (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	If cracked or broken, replace it.
(option)	
Coaxial cable	If sheath is cracked or immersed
	in water, install new coaxial
	cable.
Coaxial & power	If loosened, reconnect. If
plug connections	corroded, clean contacts.
Battery connection	If corroded, clean power
	terminals.
Ground terminal	If corroded, clean terminal.

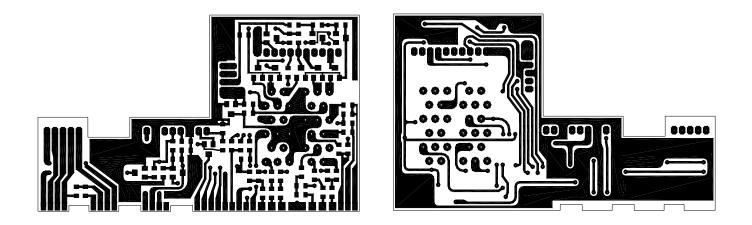
5.2 FUSE REPLACEMENT

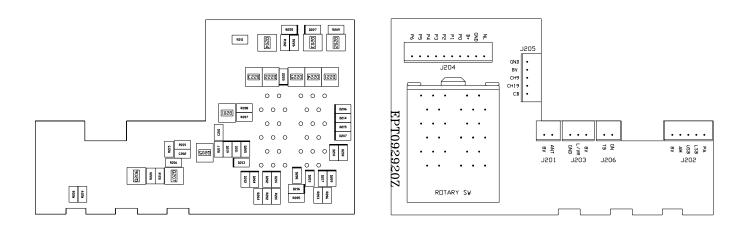
To protect the equipment from serious damage, a fuse is provided on the power supply lines. The fuse protects against over voltage / reverse polarity or internal fault of the equipment. If the fuse has blown, first find out the cause of the trouble before replacing it. A fuse rated for more than the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

6.0 GENERAL

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

DX 919 ROTARY SWITCH PCB (EPT092920Z)





(SMD-COPPER SIDE)

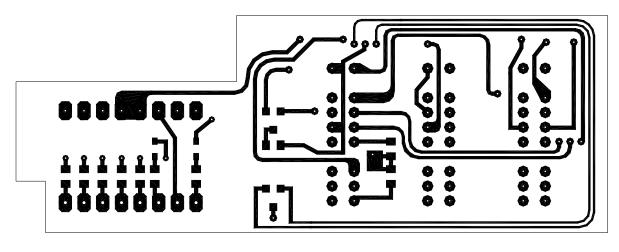
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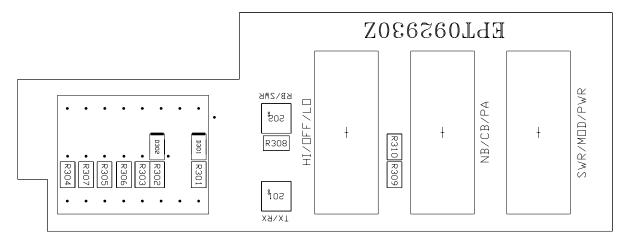
DX 919 ROTARY SW. P.C.B

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

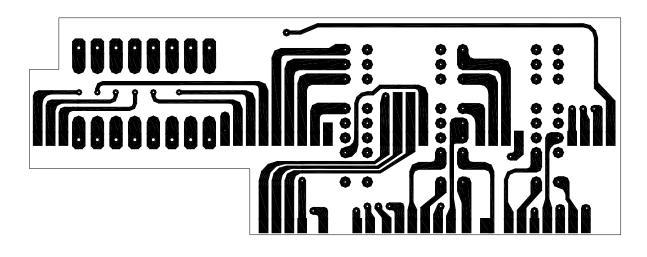
DX 919 DISPLAY PCB (EPT092930Z)



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(COMPONENT SIDE)



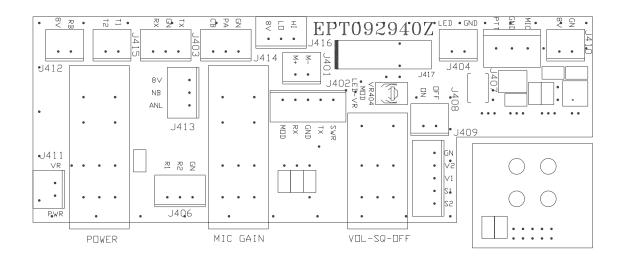
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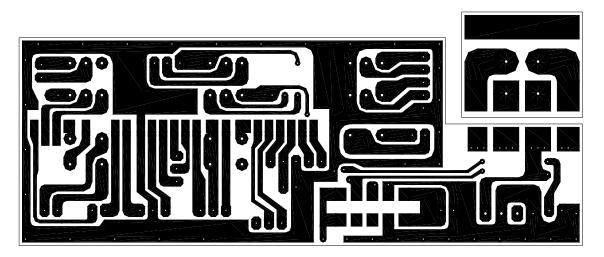
DX 919 DISPLAY P.C.B

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



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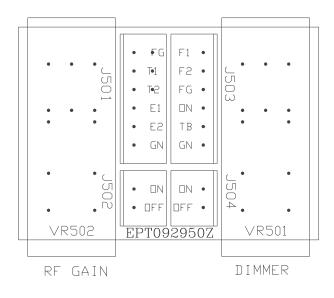
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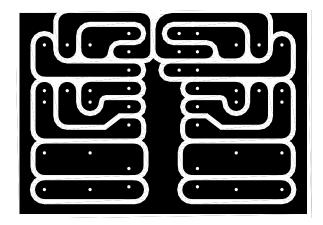
DX 919 POWER/MIC GAIN/VOL-SQ CONTROL, VR P.C.B

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 919 (RF GAIN/DIMMER CONTROL) VR PCB (EPT092950Z)



(COMPONENT SIDE)



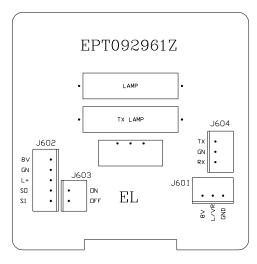
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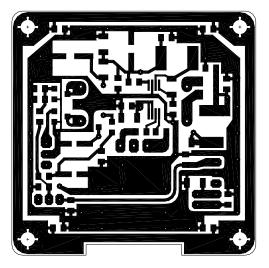
DX 919 RF GAIN/DIMMER CONTROL, VR P.C.B

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

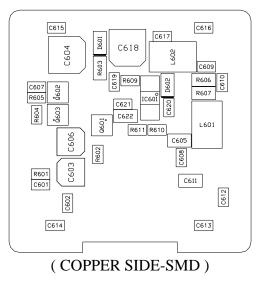
DX 919 METER PCB (EPT092961Z)



(COMPONENT SIDE)



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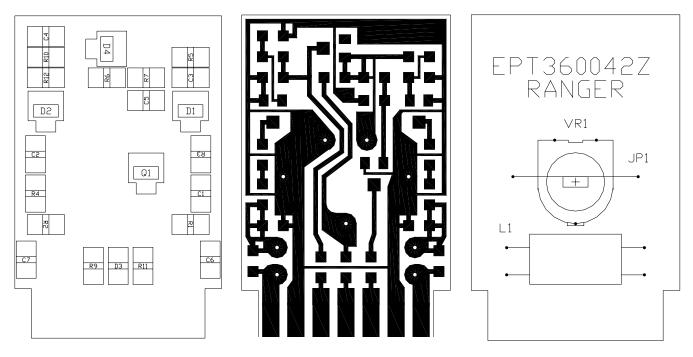


PART LIST:

DX 919 METER PCB (I	Dimmer Circuit)
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ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
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	R605	RCY013324Z	CHIP/F/R 3.3KΩ 0.1W
5	R604	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
8	C602,C609,C613,C614,	CK1103AB5X	CHIP/C 0.01uF 50WV
	C615,616		
9	C601,C607,C608,C610,	CK1104AB5X	CHIP/C 0.1uF 50WV
	C612		
10	C605,C611	CK5475AA7R	CHIP/C 4.7uF 16WV
11	C603,C606	CEY254767Z	E/C 47uF 25WV
12	C604	CEY251077Z	E/C 100uF 25WV
13	Q601,Q602	TY2SC2712G	T/R 2SC2712GR-TE85L
14	Q603	TYDTC124EA	T/R DTC124EUAT106
15	L601	YCTLI4774E	CHOKE COIL 470uH
16	LAMP	EX02N40230	LAMP 0.05 12V
17	J603	EX07N48223	PCB CONN/S 2 PIN
18	J601	EX07N48350	PCB CONN/S 3 PIN
19	J602	EX07N48222	PCB CONN/S 5 PIN

DX 919 ANTENNA PCB (EPT360042Z)



(COPPER SIDE-SMD)

(COPPER SIDE)

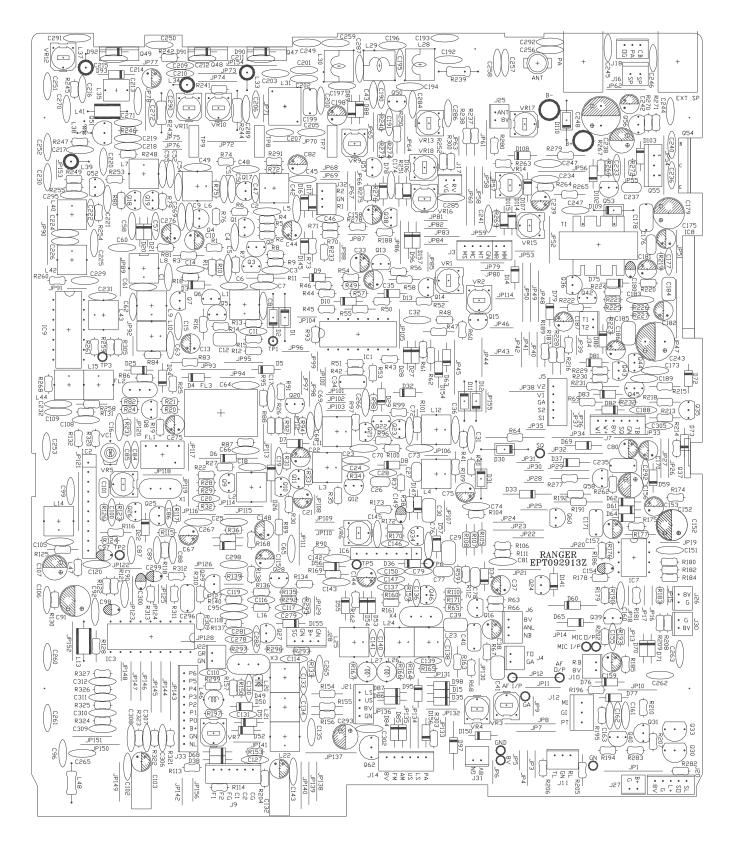
(COMPONENT SIDE)

PART LIST:

DX 919 ANT P.C.B

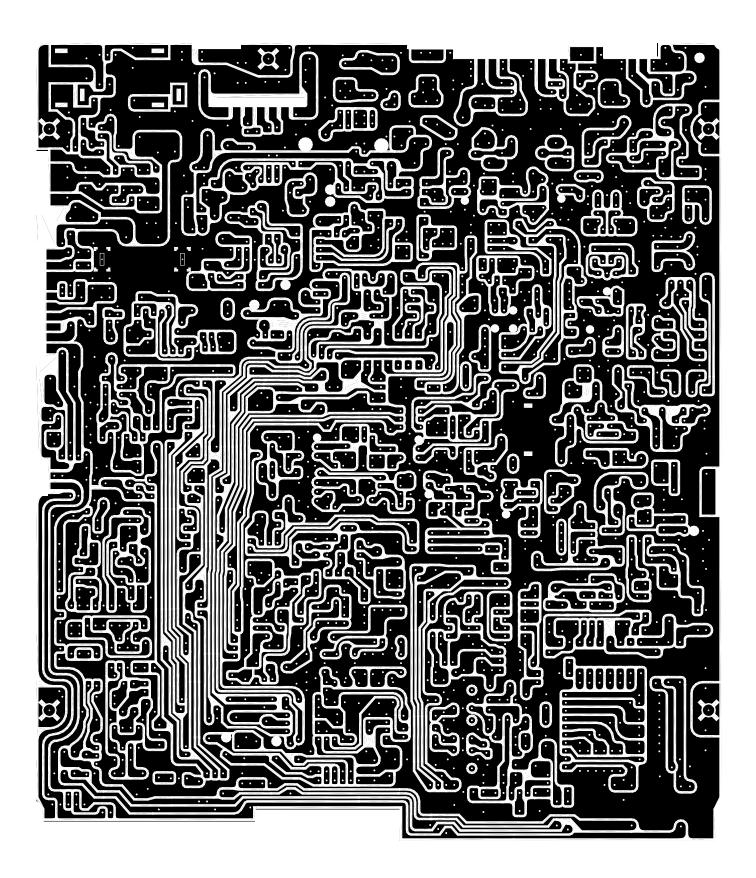
ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT360042Z	ANT P.C.B
2	R9	RCY010004Z	0 OHM 0.1W
3	R1	RCY014714Z	470 OHM 0.1W
4	R3,R4	RCY011014Z	100 OHM 0.1W
5	R2	RCY013314Z	330 OHM 0.1W
6	R5,R11	RCY011024Z	1K OHM 0.1W
7	R10,R12	RCY012224Z	2.2K OHM 0.1W
8	R7,C5	RCY011034Z	10K OHM 0.1W
9	C7	CK1059AB1A	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 919 MAIN PCB (EPT092913Z)



(COMPONENTS SIDE)

DX 919 MAIN PCB (EPT092913Z)



PART LIST DX 919 MAIN PCB

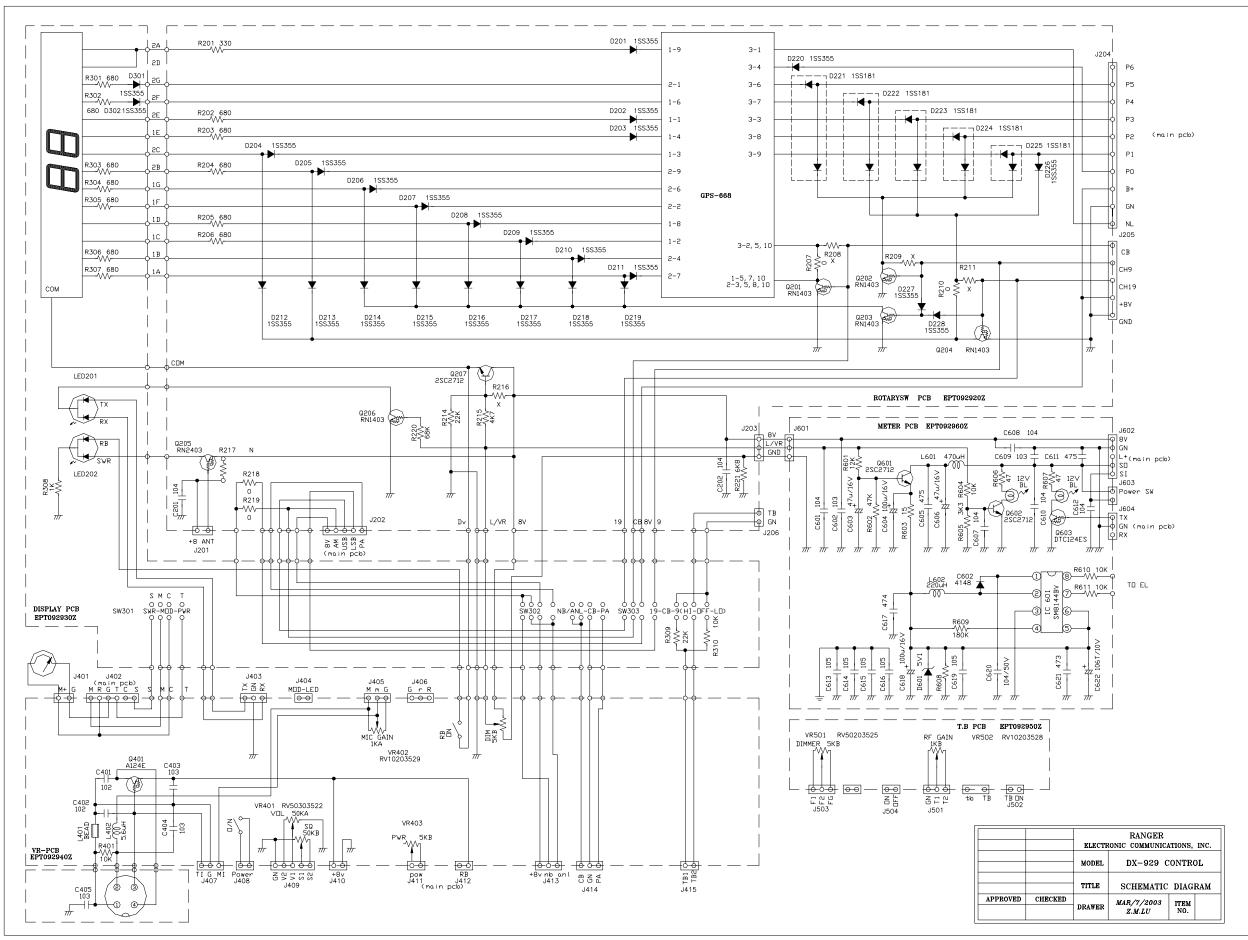
REFERENCE	RANGER	DESCRIPTION
NUMBER	PART NO.	MARINGE
D10.005.050(D000)	EPT092913Z	MAIN PCB
R19,305,258(B239)	RCP160004Z	0 Ω 1/16W
R246	RCP161004Z	10 Ω 1/16W
R267,241(B236)	RCP161504Z RCP164704Z	150 Ω 1/16W
R133,213,253,282 R130,215,220,249		47 Ω 1/16W
	RCP165604Z	56 Ω 1/16W
R11 R5,8,30,33,76,81,174,260	RCP166804Z RCP161014Z	68 Ω 1/16W 100 Ω 1/16W
R32,245(B236)	RCP161014Z RCP161514Z	150 Ω 1/16W
R23	RCP161814Z	130 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	560 Ω 1/16W
R4,50,209,89	RCP166814Z	680 Ω 1/16W
R74	RCP168214Z	820 Ω 1/16W
R62,64,67,72,115,116,118,	RCP161024Z	1K Ω 1/16W
122,123,136-138,160,164,		
179,186,189,205,206,214,		
303,232,237,261,269,291,		
292,295,320,VR12(B236)		
R192	RCP161224Z	1.2K Ω 1/16W
R132,207,233,247,	RCP161524Z	1.5K Ω 1/16W
255,273,79,80 R226	RCP161824Z	1.9K O 1/1/W
R20,27,71,75,134,	RCP162224Z	<u>1.8K Ω 1/16W</u> 2.2K Ω 1/16W
162,283,313	KCI 1022242	2.2K \$2 1/10 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		
R52,57	RCP163924Z	$3.9 \mathrm{K} \ \Omega \ 1/16 \mathrm{W}$
R26,165,190,195,196,131	RCP164724Z	$4.7 \mathrm{K} \ \Omega \ 1/16 \mathrm{W}$
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,	RCP161034Z	10K Ω 1/16W
181,202,210,216,227-231,272, 276,296,297,262		
<u>276,296,297,262</u> 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,	RCP164734Z	47K Ω 1/16W
222,224		., 12 22 1/10 17
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		
R47,117,135,139,194	RCP162244Z	220K Ω 1/16W
R49,55,176	RCP162744Z	$270 \mathrm{K} \ \Omega \ 1/16 \mathrm{W}$
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(B236)	RCP141514Z	150 Ω 1/4W
R239	RCP121034Z	10K Ω 1/2W
<u>C8</u> C4	CC0508204L CC0501015L	82PF 50WV 100PF 50WV
C4 C137	CC0501015L CC0501515L	150PF 50WV
C31,136	CC0502715L	270PF 50WV
<u>C11,14</u>	CC0503315L	330PF 50WV
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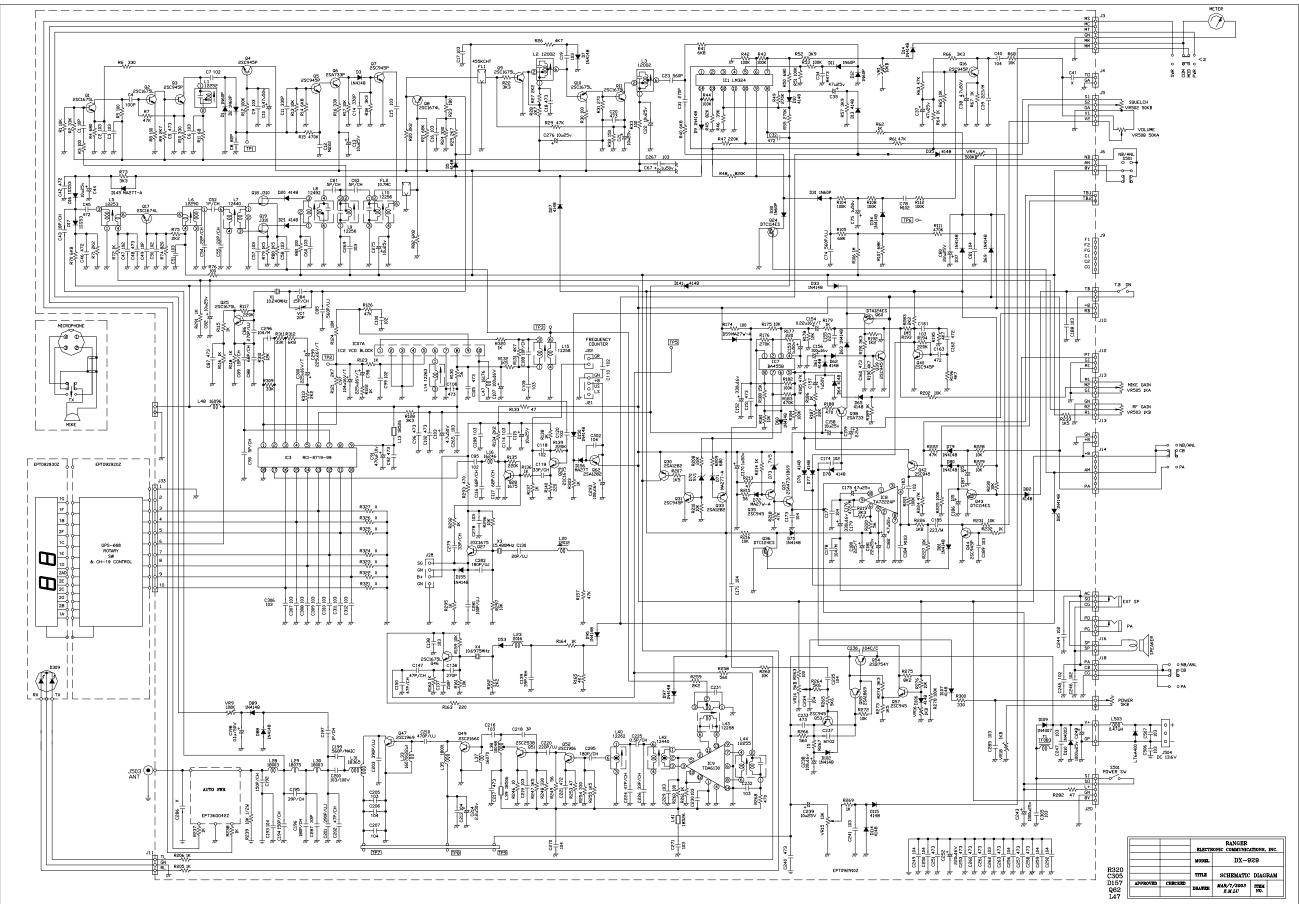
C23 CC0505615L 560PF 50WV C225 CC0500101A 1PF 50WV C218 CC0500301A 3PF 50WV C016,1,290 CC0500501A SPF 50WV C018,1,49 CC0501804A 1SPF 50WV C43 CC0501804A 1SPF 50WV C43 CC0501804A 1SPF 50WV C43 CC0501804A 1SPF 50WV C195 CC0503304A 3SPF 50WV C195 CC0503904A 3SPF 50WV C202,224,147,150 CC0503904A 3SPF 50WV C194,192 CC0501515A 150PF 50WV C130 CC050201515A 150PF 50WV C130 CC0502016G 180PF 50WV C220 CC050115G 180PF 50WV C230 CC0502115G 20PF 50WV C230 CC0502115G 20PF 50WV C230 CC0502115G 20PF 50WV C230 CC0502115G 500PF 50WV C210 CC050215G 500PF 50WV C210 CC05021615 500PF 50WV			
C225 CC0500201A 2PF 50WV C218 CC0500301A 3PF 50WV C016,1,290 CC0500501A SPF 50WV C018,1,49 CC0501504A 1SPF 50WV C43 CC0501804A 1SPF 50WV C43 CC0501804A 1SPF 50WV C54,55 CC0503304A 33PF 50WV C195 CC0503904A 3PF 50WV C202,224,147,150 CC0503904A 3PF 50WV C194,192 CC0501515A 150PF 50WV C196,222,295 CC0501515A 150PF 50WV C130 CC0502004G 20PF 50WV C220 CC050215G 20PF 50WV C231 CC0502015G 180PF 50WV C232 CC050215G 20PF 50WV C246 CC050215G 20PF 50WV C210 CC050215G 20PF 50WV C210 CC050215G 20PF 50WV C210 CC050215G 500P 50WV C210 CC0504715G 470PF 50WV C143.5 CC0501037L 0.001UF 50WV <	<u>C23</u>		
C218 CC0500301A 3PF 50WV C61,62,90 CC0501501A SPF 50WV C108,1,49 CC0501004A 10PF 50WV C43 CC0501804A 18PF 50WV C43 CC0502204A 22PF 50WV C119,279,226,287 CC0503304A 33PF 50WV C120,224,147,150 CC0504704A 47PF 50WV C202,224,147,150 CC0504704A 47PF 50WV C196,222,295 CC0501815A 150PF 50WV C130 CC0502004G 20PF 50WV C130 CC050201615G 180PF 50WV C281 CC0501015G 100PF 50WV C282 CC050115G 180PF 50WV C280 CC0502016G 390PF 50WV C210 CC050215G 270PF 50WV C210 CC050102715G 270PF 50WV C210 CC05010271 0.001UF 50WV C130 CC05010271 0.001UF 50WV C143 CC05010271 0.001UF 50WV C144 CC05010271 0.001UF 50WV C154 CC05010371			
C61.62.90 CC0500501A SPF 50WV C108.1.49 CC0501004A 10PF 50WV C43 CC0501504A 18PF 50WV C54.55 CC050204A 22PF 50WV C192 CC0503304A 33PF 50WV C195 CC0503304A 33PF 50WV C192 CC0503304A 33PF 50WV C194.192 CC0501515A 150PF 50WV C130 CC0503904D 39PF 50WV C130 CC0503904D 39PF 50WV C130 CC0502016G 180PF 50WV C231 CC0501815A 150PF 50WV C231 CC0501815G 180PF 50WV C230 CC0502116G 20PF 50WV C230 CC050215G 20PF 50WV C230 CC0504715G 470PF 50WV C210 CC0504715G 470PF 50WV C130 CC0504715G 500PF 50WV C130 CC0504715G 500PF 50WV C14183 244,245,100, 246 500P 300WV C74,750,95,99,110,118,120, CC0501027L 0.			
C108,1.49 CC0501004A 10PF 50WV C84.89 CC0501804A 18PF 50WV C54.55 CC0502204A 22PF 50WV C195 CC0503304A 33PF 50WV C202.224,147,150 CC0503904A 33PF 50WV C202.224,147,150 CC0501815A 150PF 50WV C194,192 CC0501815A 150PF 50WV C196,222,295 CC0501815A 150PF 50WV C130 CC0502004G 20PF 50WV C281 CC0501015G 100PF 50WV C282 CC0502115G 220PF 50WV C200 CC0502115G 270PF 50WV C210 CC0501027L 0.001UF 50WV C131 CC0501027L 0.001UF 50WV C14,85 CC0501027L 0.001UF 50WV C14,85 CC0501027L 0.01UF 50WV C14,81,73,193,206,207,236,			
C84,89 CC0501504A 15PF 50WV C43 CC0501804A 18PF 50WV C54,55 CC0502204A 22PF 50WV C119,279,226,287 CC0503304A 33PF 50WV C195 CC0503304A 33PF 50WV C202,224,147,150 CC0504704A 47PF 50WV C88,116,117 CC0501815A 150PF 50WV C139 CC0501815A 150PF 50WV C130 CC0501815A 150PF 50WV C281 CC0501815G 180PF 50WV C282 CC0501815G 180PF 50WV C282 CC0501815G 180PF 50WV C280 CC0502215G 220PF 50WV C210 CC0503915G 390PF 50WV C210 CC0503915G 300PF 50WV C74,85 CC0501614Z 560P 300W C74,85 CC0501047L 0.01UF 50WV C81,173,193,206,207, 236, CC0501047L 0.01UF 50WV C32,42,45,40,221,163,063 215(B236) 215(B236) C155 CC050237L 0.0047UF C32,42,454,46,			
C43 CC0501804A 18PF 50WV C54,55 CC0502204A 22PF 50WV C119,279,226,287 CC0503304A 33PF 50WV C202,224,147,150 CC0504704A 47PF 50WV C202,224,147,150 CC0504704A 47PF 50WV C194,192 CC0501515A 150PF 50WV C193 CC0502004G 20PF 50WV C130 CC0502004G 20PF 50WV C281 CC050115G 100PF 50WV C282 CC050115G 120PF 50WV C220 CC0502215G 220PF 50WV C220 CC050215G 220PF 50WV C210 CC050215G 270PF 50WV C210 CC0504715G 470PF 50WV C74,85 CC050614Z 560P 300WV C74,85 CC0501027L 0.001UF 50WV C14,483,244,245,100, 246 C C C811,235,211(B236), 215(B236) 25(B236) C518,20,48,87,92, CC0504737L 0.047UF 50WV C32,42,45,46,221,162,163 CC0504737L 0.01UF 50WV <t< td=""><td></td><td></td><td></td></t<>			
C54,55 CC0502204A 22PF 50WV C195 CC0503304A 33PF 50WV C202,224,147,150 CC0504704A 47PF 50WV C202,224,147,150 CC0504704A 47PF 50WV C194,192 CC0501515A 150PF 50WV C196,222,295 CC0501815A 150PF 50WV C130 CC050201615G 180PF 50WV C281 CC0502115G 180PF 50WV C282 CC0503915G 300PF 50WV C281 CC05032115G 270PF 50WV C200 CC0503215G 390PF 50WV C210 CC0503915G 390PF 50WV C210 CC0503915G 390PF 50WV C210 CC0503615G 560P 50WV C210 CC0503615G 560PF 50WV C14133,193,206,207,236, CC0501047L 0.1UF 50WV C31,23,240,270,177,292,40, 171,133,206,207,2151,160, 233,240,247,251,253,258,260, C31,24,245,46,221,162,163 CC0504737L 0.047UF 50WV C33,240,247,251,253,258,260, 261,263,217,65 232,42,245,46,221,162,163 C32,			
C119,279,226,287 CC0503304A 33PF 50WV C195 CC0503904A 39PF 50WV C202,224,147,150 CC0506804A 68PF 50WV C194,192 CC0501815A 150PF 50WV C196,222,295 CC0503904D 39PF 50WV C130 CC0503004G 20PF 50WV C281 CC0501815G 180PF 50WV C281 CC050215G 220PF 50WV C282 CC0503915G 390PF 50WV C280 CC050215G 220PF 50WV C281 CC0503915G 390PF 50WV C201 CC0503915G 390PF 50WV C210 CC0504715G 470PF 50WV C210 CC0501027L 0.001UF 50WV C13,23,206,207,236, CC0501047L 0.1UF 50WV C13,23,206,274,250,256,259,272, 249,302,270,177, 292,40, 171,235,211(B236), 215(B236) C C 50WV C155 CC0504737L 0.047UF 50WV G13,240,247,251,253,258,260, 261,263,217,65 200WV C155 CC0501037L 0			
C195 CC0503904A 39PF 50WV C202,224,147,150 CC0504704A 47PF 50WV C88,116,117 CC0506804A 68PF 50WV C194,192 CC0501515A 150PF 50WV C139 CC0502004G 20PF 50WV C130 CC0502004G 20PF 50WV C281 CC0501815G 180PF 50WV C220 CC0502215G 220PF 50WV C220 CC050215G 220PF 50WV C210 CC050215G 300PF 50WV C210 CC050215G 560PF 50WV C210 CC0504715G 470PF 50WV C74.85 CC0505615G 560PF 50WV C199 CD3005614Z 560P 300WV C74.85 CC0501047L 0.10F 50WV C174.85 CC0501047L 0.10F 50WV C13.234,250,256,259,272, 249,302,270,177, 292,40, 171,235,211(8236), 215,820,266,257,151,160, 23,240,247,251,253,258,260, 261,263,217,65 C32,42,45,46,221,162,163 CC0501037L 0.01UF 50WV C33,240,247,251,253,258,260, 261,263,			
C202,224,147,150 CC0504704A 47PF 50WV C194,192 CC0501515A 150PF 50WV C196,222,295 CC0501815A 150PF 50WV C130 CC0503904D 39PF 50WV C281 CC0501815G 180PF 50WV C282 CC0501815G 180PF 50WV C282 CC0501215G 200PF 50WV C200 CC0502215G 220PF 50WV C201,203 CC0503915G 390PF 50WV C210 CC0504715G 470PF 50WV C210 CC0504715G 470PF 50WV C210 CC0504715G 470PF 50WV C210 CC0504715G 470PF 50WV C139 CC0505615G 560PF 30WV C14183, 244,245,100, 246 C 650P 300WV C74,85 CC0501047L 0.1UF 50WV C31,23,4250,256,259,272, 249,302,270,177, 292,40, 171,12,35,211,60, C31,24,245,46,221,162,163 CC05004737L 0.047UF 50WV C35,62,269,1517,19,51,57,58, CC0501037L 0.010F 50WV C32,42,45,46,221,162,163 CC0501037			
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C194,192 CC0501515A 150PF 50WV C139 CC0503904D 39PF 50WV C130 CC050204G 20PF 50WV C281 CC050215G 20PF 50WV C220 CC050215G 20PF 50WV C220 CC050215G 20PF 50WV C220 CC050215G 20PF 50WV C210 CC050215G 390PF 50WV C210 CC0504715G 470PF 50WV C210 CC0504715G 470PF 50WV C74.85 CC0505615G 50PF 50WV C199 CD3005614Z 560P 300WV C74.85 CC0501027L 0.001UF 50WV C81,173,193,206,207,236, CC0501047L 0.1UF 50WV C31,23,240,247,251,253,258,260, 261,263,217,65 232,40,247,251,253,258,260, S21,242,45,46,221,162,163 CC0501037L 0.01UF 50WV C155 CC0502237L 0.022UF 50WV C155 CC0501037L 0.01UF 50WV C0,009,114,138,161,16,189, 205,219,229,30,232,241, 265,267,269,271,278, 298, 283,305,306,307,308,309, <t< td=""><td></td><td></td><td></td></t<>			
C196,222,295 CC0501815A 150PF 50WV C130 CC0503004D 39PF 50WV C130 CC0502004G 20PF 50WV C281 CC0501015G 100PF 50WV C282 CC0502115G 220PF 50WV C284 CC0502115G 270PF 50WV C200 CC050215G 270PF 50WV C201,203 CC0503915G 390PF 50WV C210 CC0504715G 470PF 50WV C199 CD3005614Z 560P 300WV C74,85 CC0501027L 0.001UF 50WV C13,234,250,256,259,272, 249,302,270,177, 292,40, 171,235,211(B236), 215(B236) C C C518,20,48,87,92, C41,261,271,251,253,258,260, 261,263,217,65 C C32,42,45,46,221,162,163 CC0504737L 0.047UF 50WV C155 CC0502237L 0.022UF 50WV C155 CC0501037L 0.01UF 50WV C155 CC0501037L 0.01UF 50WV C155 CC0502237L 0.022UF 50WV C200 C1001037L 0.01UF			
C139 CC0503904D 39PF 50WV C130 CC0502004G 20PF 50WV C281 CC0501015G 100PF 50WV C282 CC0502215G 220PF 50WV C200 CC0502215G 220PF 50WV C201 CC0503915G 390PF 50WV C201 CC0503915G 390PF 50WV C210 CC0504715G 470PF 50WV C74,85 CC0501027L 0.001UF 50WV C7,47,50,95,99,110,118,120, CC0501027L 0.001UF 50WV C7,47,50,95,99,110,118,120, CC0501047L 0.1UF 50WV C13,324,250,256,259,272, 249,302,270,177, 292,40, 171,235,211(B236) 215(B236) C5,18,20,48,87,92, CC0504737L 0.047UF 50WV 96,102,105,106,257,151,160, 23,240,247,251,253,258,260, 22,34,24,245,46,221,162,163 CC0501037L 0.01047UF 50WV C23,69,15,17,19,51,57,58, CC0501037L 0.0047UF 50WV 200 C2,36,9,15,17,19,51,57,58, CC0501037L 0.01UF 50WV C104 C70161046Z 0.1UF 100WV 223,24,245,46,2216,285 C14 C10161246Z 0.2			
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VC1 CV038200AZ TRIMMER/C 20P (CV38D2001)		CL023100/L	1001 23 ** *
20P (CV38D2001)		CV03820047	TRIMMER/C
(CV38D2001)	101	C 1030200AL	
CE02322072 2201 23 W V	<u>C80 181</u>	CE02522677	· · · · · · · · · · · · · · · · · · ·
		CL02322012	2201 23 11 1

<u>C37,175,38</u>	CE0254767Z	47UF 25WV
<u>C156,238,293,107</u>	CE0161077Z	100UF 16WV
C252	CE0162277Z	220UF 16WV
<u>C152,179</u>	CE0163377Z	330UF 16WV
<u>C91</u> C242 248	CE0104777Z	470UF 10WV
C243,248 C35	CE0251087Z CEM254767Z	1000UF 25WV 47UF 25WV
<u>FL1</u>	EFCFW455HT	CFW-455HT
FL2	EFCFE107MX	SFE10.7MX
<u>X1</u>	EYCAB10240	10.240MHZ
X3	EYBAA15480	15.480 MHZ
X4	EYBAE10697	10.6975MHZ 1
IC1	ENSS00324Z	LM324
IC3	ENRG871999	RCI-8719A
IC7	ENRO04558Z	BA4558
IC9(B239)	ENRCI6130Z	RCI-6130
VCO	ENNOHIC07A	UHIC07A
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		
Q6,38	T2SA00733P	2SA733P
Q55	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	ED1N00060P	1N60P
D110	ED1N04003Z	1N4003
D109	ED1N04007Z	1N4007
D16,17	EDSS00053Z	1SS53
D16,17 D59,72	EDSS00053Z EDMA00027W	1SS53 MA27W-A
D16,17 D59,72 D71,145,156	EDSS00053Z EDMA00027W EDMA00027T	1SS53 MA27W-A MA27T-A
D16,17 D59,72 D71,145,156 D70	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z	1SS53 MA27W-A MA27T-A 5.1V 0.5W
D16,17 D59,72 D71,145,156 D70 D73	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z	1SS53 MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W
D16,17 D59,72 D71,145,156 D70 D73 L2,3	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002	1SS53 MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290	1SS53 MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002	1SS53 MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290 ECIFT12012	1SS53 MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. I.F.T. 113CN-6514X
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290	1SS53 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.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12002 ECIFT12012 ECIFT12016	1SS53 MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6344Z
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252	1SS53 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.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255	1SS53 MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6544Z I.F.T. I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252	1SS53 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.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255	18853 MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6544Z I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12258	18853 MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6544Z I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15 L40	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12256 ECIFT12258 ECIFT12262	18853 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.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15 L40 L14	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12258 ECIFT12262 ECIFT12263	18853 MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW LF.T. I.F.T. 113CN-6514X I.F.T. LF.T. I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15 L40 L14 L43(B239)	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12258 ECIFT12262 ECIFT12263 ECIFT12263	18853 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.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15 L40 L14 L43(B239) C306(L43 PIN4&6)(B239) L7,42 L5	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12258 ECIFT12262 ECIFT12263 ECIFT12263 ECIFT12265 CK1820AA4A	1SS53 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. 113CN-6544Z I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15 L40 L14 L43(B239) C306(L43 PIN4&6)(B239) L7,42 L5 L8	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12256 ECIFT12258 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263	1SS53 MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABw I.F.T. 113CN-6514X I.F.T. 113CN-6544Z I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15 L40 L14 L43(B239) C306(L43 PIN4&6)(B239) L7,42 L5 L8 L48	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12256 ECIFT12258 ECIFT12262 ECIFT12262 ECIFT12263 ECIFT12263 ECIFT12265 CK1820AA4A ECIFT12253 ECIFT12440 ECIFT12492 ECCHK16096	1SS53 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.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15 L40 L14 L43(B239) C306(L43 PIN4&6)(B239) L7,42 L5 L8 L48 L503	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12002 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12262 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12253 ECIFT12253 ECIFT12240 ECIFT12492 ECCHK16096 ECCHK16000	1SS53 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. 113CN-6544Z I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15 L40 L14 L43B239) C306(L43 PIN4&6)(B239) L7,42 L5 L8 L48 L503 T1	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD0559Z ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12256 ECIFT12256 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12253 ECIFT12253 ECIFT12440 ECIFT12492 ECCHK16096 ECCHK16000	1SS53 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. 113CN-6544Z I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15 L40 L14 L43B239) C306(L43 PIN4&6)(B239) L7,42 L5 L8 L48 L503 T1 L33,37	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD0559Z ECIFT12002 ECIFT12002 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12258 ECIFT12262 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12253 ECIFT12265 CK1820AA4A ECIFT12253 ECIFT12440 ECIFT12492 ECCHK16096 ECCHK16004 ECCHK16004	1SS53 MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6544Z I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15 L40 L14 L43(B239) C306(L43 PIN4&6)(B239) L7,42 L5 L8 L48 L503 T1 L33,37 L47	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12002 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12256 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12265 CK1820AA4A ECIFT12253 ECIFT12440 ECIFT12492 ECCHK16096 ECCHK16000 ECCHK16070 ECCHK16070 ECCHK16070	1SS53 MA27W-A MA27T-A 5.1V 0.5W 7.5V 0.5W 7MC-7172ABW I.F.T. 113CN-6514X I.F.T. 113CN-6544Z I.F.T. U.F.T. I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15 L40 L14 L43(B239) C306(L43 PIN4&6)(B239) L7,42 L5 L8 L48 L503 T1 L33,37 L47 L16	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD0559Z ECIFT12002 ECIFT12002 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12258 ECIFT12262 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12265 CK1820AA4A ECIFT12253 ECIFT12440 ECIFT12492 ECCHK16096 ECCHK16004 ECCHK16070 ECCHK16076 ECCHK16176 ECCHK16246	1SS53 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. 113CN-6344Z I.F.T.
$\begin{array}{c} \hline D16,17\\ \hline D59,72\\ \hline D71,145,156\\ \hline D70\\ \hline D73\\ \hline L2,3\\ \hline L6\\ \hline L20\\ \hline \\ \hline L23\\ \hline \\ \hline L1\\ \hline L44\\ \hline L9,10\\ \hline L15\\ \hline L40\\ \hline L14\\ \hline L43(B239)\\ \hline C306(L43\ PIN4\&6)(B239)\\ \hline L7,42\\ \hline L5\\ \hline L8\\ \hline L48\\ \hline L30\\ \hline T1\\ \hline L33,37\\ \hline L47\\ \hline L16\\ \hline L30\\ \hline \\ L30\\ \hline \end{array}$	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12002 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12258 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12264 ECIFT12440 ECIFT12440 ECIFT12440 ECIFT12440 ECCHK16096 ECCHK16004 ECCHK16070 ECCHK16070 ECCHK16176 ECCHK16246 ECSPG18003	1SS53 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. 113CN-6344Z I.F.T.
$\begin{array}{c} D16,17\\ \hline D59,72\\ \hline D71,145,156\\ \hline D70\\ \hline D73\\ \hline L2,3\\ \hline L6\\ \hline L20\\ \hline \\ L23\\ \hline \\ \hline L1\\ \hline L44\\ \hline L9,10\\ \hline L15\\ \hline L40\\ \hline L14\\ \hline L43(B239)\\ \hline C306(L43 PIN4&6)(B239)\\ \hline L7,42\\ \hline L5\\ \hline L8\\ \hline L48\\ \hline L203\\ \hline C306(L43, PIN4& 0)(B239)\\ \hline L7,42\\ \hline L5\\ \hline L8\\ \hline L23\\ \hline L23\\$	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05519Z ECIFT12002 ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12263 ECIFT1240 ECIFT1240 ECIFT12492 ECCHK16006 ECCHK16004 ECCHK16070 ECCHK16176 ECCHK16246 ECSPG18003 ECSPG18075	1SS53 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. 113CN-6344Z I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15 L40 L14 L43(B239) C306(L43 PIN4&6)(B239) L7,42 L5 L8 L48 L503 T1 L33,37 L47 L16 L30 L29,28(B236) L31	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05519Z ECIFT12002 ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12263 ECIFT12265 ECIFT12263 ECIFT12265 ECIFT12263 ECIFT12263 ECIFT12265 ECIFT12255 ECIFT12265 ECIFT1240 ECIFT1240 ECIFT1240 ECIFT1240 ECIFT1245 ECIFT14	1SS53 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. 113CN-6344Z I.F.T.
D16,17 D59,72 D71,145,156 D70 D73 L2,3 L6 L20 L23 L1 L44 L9,10 L15 L40 L14 L43(B239) C306(L43 PIN4&6)(B239) L7,42 L5 L8 L48 L503 T1 L33,37 L47 L16 L30 L29,28(B236) L31 L35	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05519Z ECIFT12002 ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12255 ECIFT12255 ECIFT12263 ECIFT12265 CK1820AA4A ECIFT12253 ECIFT12400 ECCHK16096 ECCHK16000 ECCHK16070 ECCHK16070 ECCHK16176 ECCHK16176 ECCHK16176 ECSPG18003 ECSPG18001	1SS53 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. 113CN-6344Z I.F.T.
$\begin{array}{c} \hline D16,17\\ \hline D59,72\\ \hline D71,145,156\\ \hline D70\\ \hline D73\\ \hline L2,3\\ \hline L2,3\\ \hline L6\\ \hline L20\\ \hline \hline L23\\ \hline \\ \hline L23\\ \hline \\ \hline L23\\ \hline \\ \hline \\ L44\\ \hline \\ L44\\ \hline \\ L9,10\\ \hline \\ L15\\ \hline \\ L44\\ \hline \\ L43(B239)\\ \hline \\ C306(L43 PIN4\&6)(B239)\\ \hline \\ L7,42\\ \hline \\ L5\\ \hline \\ L8\\ \hline \\ L48\\ \hline \\ L48\\ \hline \\ L48\\ \hline \\ L503\\ \hline \\ T1\\ \hline \\ \\ L33,37\\ \hline \\ L47\\ \hline \\ L16\\ \hline \\ L30\\ \hline \\ L29,28(B236)\\ \hline \\ L31\\ \hline \\ L35\\ \hline \\ L38\\ \hline \end{array}$	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12258 ECIFT12262 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12265 CK1820AA4A ECIFT12265 CK1820AA4A ECIFT12253 ECIFT12440 ECIFT12492 ECCHK16096 ECCHK16000 ECCHK16000 ECCHK16000 ECCHK16000 ECCHK1670 ECCHK1670 ECCHK1670 ECCHK1670 ECCHK1675 ECSPG18003 ECSPG18001 ECSPG18001 ECRFZ10048	1SS53 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. 113CN-6344Z I.F.T.
$\begin{array}{c} \hline D16,17\\ \hline D59,72\\ \hline D71,145,156\\ \hline D70\\ \hline D73\\ \hline L2,3\\ \hline L6\\ \hline L20\\ \hline \hline L23\\ \hline \\ \hline L23\\ \hline \\ \hline L23\\ \hline \\ \hline L44\\ \hline L9,10\\ \hline \\ L15\\ \hline \\ L40\\ \hline \\ L15\\ \hline \\ L48\\ \hline \\ L50\\ \hline \\ L5\\ \hline \\ L8\\ \hline \\ L48\\ \hline \\ L503\\ \hline \\ T1\\ \hline \\ \\ L33,37\\ \hline \\ L47\\ \hline \\ L16\\ \hline \\ L30\\ \hline \\ L29,28(B236)\\ \hline \\ L31\\ \hline \\ L38\\ \hline \\ L38\\ \hline \\ L39\\ \hline \end{array}$	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12002 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12258 ECIFT12262 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12253 ECIFT12263 ECIFT12263 ECIFT12253 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12265 CK1820AA4A ECIFT12253 ECIFT12400 ECCHK16096 ECCHK16000 ECCHK16000 ECCHK16070 ECCHK1675 ECSPG18003 ECSPG18001 ECRFZ10048 ECBAD18506	1SS53 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. 113CN-6544Z I.F.T. SPRING COIL SPRING COIL SPRING COIL SPRING COIL SPRING COIL
$\begin{array}{c} \hline D16,17\\ \hline D59,72\\ \hline D71,145,156\\ \hline D70\\ \hline D73\\ \hline L2,3\\ \hline L2,3\\ \hline L6\\ \hline L20\\ \hline \hline L23\\ \hline \\ \hline L23\\ \hline \\ \hline L23\\ \hline \\ \hline \\ L44\\ \hline \\ L44\\ \hline \\ L9,10\\ \hline \\ L15\\ \hline \\ L44\\ \hline \\ L43(B239)\\ \hline \\ C306(L43 PIN4\&6)(B239)\\ \hline \\ L7,42\\ \hline \\ L5\\ \hline \\ L8\\ \hline \\ L48\\ \hline \\ L48\\ \hline \\ L48\\ \hline \\ L503\\ \hline \\ T1\\ \hline \\ \\ L33,37\\ \hline \\ L47\\ \hline \\ L16\\ \hline \\ L30\\ \hline \\ L29,28(B236)\\ \hline \\ L31\\ \hline \\ L35\\ \hline \\ L38\\ \hline \end{array}$	EDSS00053Z EDMA00027W EDMA00027T EDZD05519Z EDZD05759Z ECIFT12002 ECIFT12290 ECIFT12012 ECIFT12016 ECIFT12252 ECIFT12255 ECIFT12255 ECIFT12256 ECIFT12258 ECIFT12262 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12263 ECIFT12265 CK1820AA4A ECIFT12265 CK1820AA4A ECIFT12253 ECIFT12440 ECIFT12492 ECCHK16096 ECCHK16000 ECCHK16000 ECCHK16000 ECCHK16000 ECCHK1670 ECCHK1670 ECCHK1670 ECCHK1670 ECCHK1675 ECSPG18003 ECSPG18001 ECSPG18001 ECRFZ10048	1SS53 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. 113CN-6344Z I.F.T.

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	W1010/0/0/	JOINI WIRE
JP7,10,26,27,44,61,62,65,72,	WX01070710	JUMP WIRE
73,74,78,33,89,95,114,115,	WA010/0/10	JUMI WIKE
138,150,151,152,66,67,77,105		
,146,147,149		
JP8,21,51,139,86	WX01070711	JUMP WIRE
JP12,52,140	WX01070712	JUMP WIRE
JP48,111,137,144,154,34,	WX01070712	JUMP WIRE
145.8	WA010/0/13	JOWII WIKE
JP32,93,FL3,D26	WX01070714	JUMP WIRE
JP1,47,49,50,54,56,58,90,	WX01070715	JUMP WIRE
121,143	W1010/0/15	JOINI WIRE
TP7-TP8,TP8-TP9	WX01070718	JUMP WIRE
J7,17,22,25,31,34	EX07N48223	P/C/S 2P
J6,11,18,32	EX07N48223 EX07N48350	P/C/S 3P
J21	EX07N48490	P/C/S 4P
J3,5,20	EX07N48222	P/C/S 5P
J14	EX07N48331	P/C/S 6P
J33	EX07N48209	P/C/S 10P
J12	EX07N41227	P/C/S 3P
SP(J16)	EX07N41330	P/C/S 2P
TP2,3,5	EX07N48612	1PIN L=11.8
PA,EXP SP	EX06N41045	EAR JACK
L503	WX0012015A	TUBE
L504	WH0007005Z	LEAD WIRE

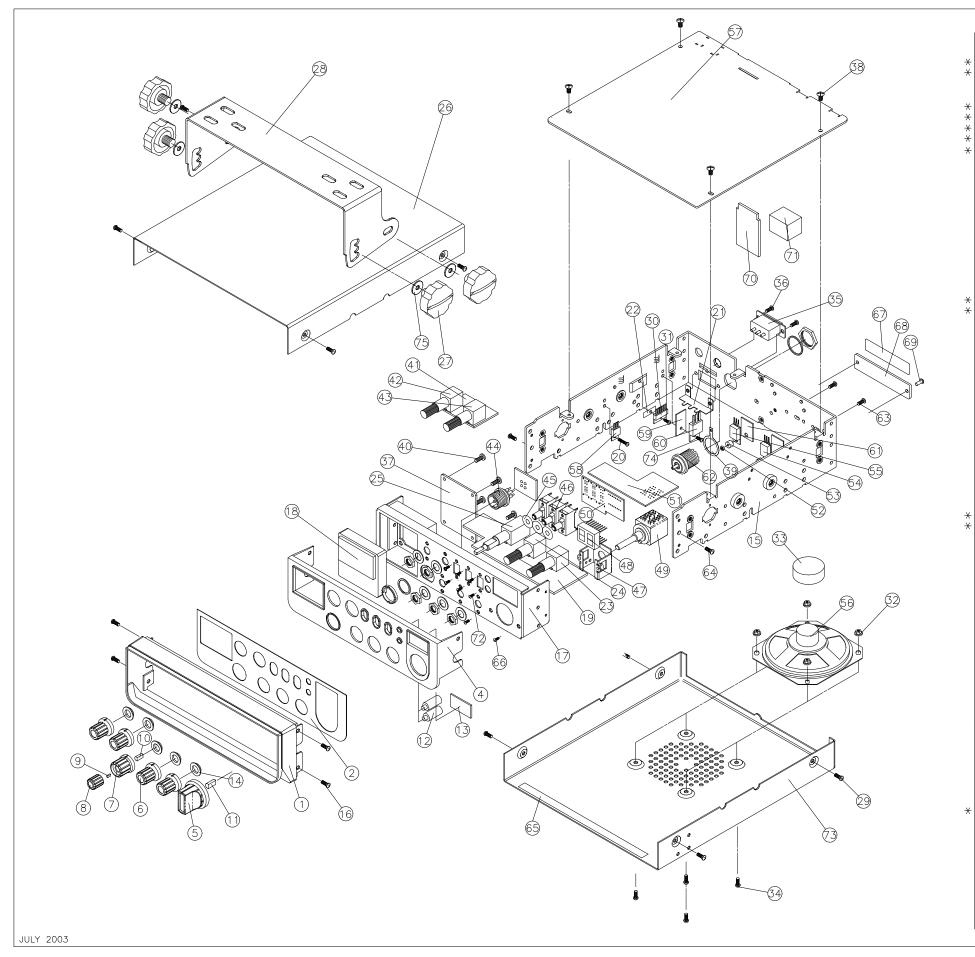
DX 919 SCHEMATIC DIAGRAM (CONTROL PCB)





DX 919 SCHEMATIC DIAGRAM (MAIN PCB)

DX 919 EXPLODE DRAWING



DX 919 ME	CHANICAL PART	
PART NUMBER	PART NAME	QT'Y
PT0919010A	FRONT PAHEL	1
BT0919030A	ID PLATE DX919	1
5700400004	FRONT HOUGING	1
PT0919020A	FRONT HOUSING	1
PT148N021A	CH KNOB	4
PT148N031A PT148N090A	VR KNOB	4
PT148N100A	OUTER KNOB	1
MT3600100T	D SPRING D	1
MT3600090T	D SPRING B	1
MT3600080T	D SPRING A	1
PTDX55040A	LED BAR	2
PTDX55020B	DISPLAY WINDOW	1
PT3600090A	KNOB WASHER	5
MT0919030X	SET CHASSIS	1
JS033006MN	SCREW M3X6	4
MT0919010X	FRONT CHASSIS	1
EX03N40482	SIGNAL METER	1
EPT092940Z	VR PCB	1
JS052006MN	SCREW M2X6	1
MT3600050X	DC SOCKET HOLDER	1
LZZZ61008Z	IC SHIELD B	1
RV50203525	VR 5KB	1
RV10203529	VR 1KA	1
RV50303522	VR 50KB/50KA SW	1
MT1200011K	TOP HOUSING	1
XZZZ90007Z	MOUNTING SCREW	4
MT1200090A	MOUNTING BRACKET	1
JS053006MN	SCREW M3X6	8
ENTA07222P	TA7222AP	1
JS013006MV	SCREW M3X6	1
JN263035ZS	NUT WITH WASHER	4
QT7799010A	RUBBER COVER	1
JS053008MN	SCREW M3X8	4
EX06T40007	DC SOCKET 3P	1
JS053008MN	SCREW M3X8	2
EPT092960Z	METER PCB	1
JS053006MN	SCREW T3X6	5
XZZZ90423Z	SOLDER PLATE	1
JS053006TH	SCREW T3X6	4
EPT092950Z	TB PCB	1
RV10203528	VR 1KB	1
RV50203525	VR 5KB	1
EX06N41101	MIC JACK 4P	1
XZZZ90296A	MASK PLATE(SW)	3
EWSL31027K	SLIDE SW 3N	3
MTDX55042X	SW CHASSIS (CH)	1
EX03N40419	LED DISPLAY	1
EWRT32059S	ROTARY SW	1
EPT092930Z	DISPLAY PCB	1
EPT092920Z	ROTARY SW PCB	1
JN242012ZS	NUT M2X1.2t	2
XZZZ90003Z	INSULATING RING	2
T2SC02166C	TR 2SC2166C	1
T2SC01969C	TR 2SC1969C	1
ES300835SQ	SPEAKER 80HM	1
EPT929013Z	MAIN P.C.B.	1
T2SA01869Z	TR 2SA1869	1
XZZZ90020Z	INSULATING PLATE	1
T2SB00754Y	TR 2SB754Y	1
XZZZ90358Z	INSULATING PLATE	2
EX06T41019	ANT SOCKET	1
JS052012MN	SCREW M2X12	2
JS053004MN	SCREW M3X4	2
LZZZ60082Z	SHIELD CLOTH	2
JS053008MN	SCREW M3X8	2
LZZZ61570A	PART 15 LABEL	1
BT0919040A	FCC PLATE DX919	1
JF413206ZX	BLIND RIVET	2
EPT360042Z	ANT PCB	1
XZZZ90422Z	FOAM14X16X20MM	1
JS052604MN	SCREW M2.6X4	6
MT1200210K	BOTTOM HOUSING	1
JS052010MN	SCREW M2X10	1
XZZZ90188Z	FIBER WASHER	4
	1	1

NO.

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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.

