

	PAGE
CHAPTER 1	
SPECIFICATIONS	
1.0 General	2
1.1 Transmitter	2
1.2 Receiver	2
 CHAPTER 2	
OPERATION	
2.0 Introduction	3
2.1 Control and Connections	3
2.1.1 Front Panel	3
2.1.2 Rear Panel	7
2.1.3 Frequency Chart	8
2.2 Microphone	9
2.3 Operation	9
2.3.1 Procedure to Receive	9
2.3.2 Procedure to Transmit	9
2.4 Alternate Microphones and Installation	10
 CHAPTER 3	
CIRCUIT DESCRIPTION	
3.0 Introduction	11
3.1 PLL Circuit	11
3.2 Receiver Circuit	11
3.3 Transmitter Modulation Circuit	11
3.4 Transmitter Amplifier Circuit	11
 CHAPTER 4	
ALIGNMENT	
4.0 Required Test Equipment	14
4.1 Alignment Procedures	14
4.1.1 PLL Alignment	14
4.1.2 Transmitter Alignment	15
4.1.3 Receiver Alignment	16
 CHAPTER 5	
MAINTENANCE	
5.0 Precautions	18
5.1 Periodic Inspection	18
5.2 Fuse Replacement	18
 CHAPTER 6	
DIAGRAMS AND PART LIST	
6.0 PCB Layout and Part List	19

1.0 GENERAL

Model	DX 2547
Frequency Range	26.965 – 27.405 MHz
Emission Modes	AM/USB/LSB
Frequency Control	Phase Lock Loop (PLL) synthesizer
Frequency Tolerance	0.005 %
Frequency Stability	0.001 %
Operating Temperature Range	-30°C to +50°C
Microphone	Dynamic PTT, 500 Ω
Input Voltage (DC/AC Selectable)	13.8V DC / 110V AC 60Hz
Current Drain: Transmit (AM full mod.)	< 3.5A
Current Drain : Receiver (Squelched)	\leq 0.5A
(Max. audio output)	< 1A
Antenna Connector	UHF; SO239

1.1 TRANSMITTER

RF Power Output	AM : 4W ; SSB : 12W PEP
RF Transmit Modes	AM/SSB
Modulation	High and Low level Class B, Amplitude Modulation : AM and SSB.
Spurious Emissions	- 60dB
Carrier Suppression	- 60dB
Audio Frequency Response	300 to 2500 Hz
Antenna Impedance	50 Ohms
Output Indicators	Meter shows relative signal strength, RF output power, SWR and AM Modulation level. Transmit LED glows red when transmitter is in operation.

1.2 RECEIVER

Sensitivity For 10dB S/N (AM/ SSB)	< 0.5 μ V / < 0.15 μ 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 μ V
Noise Blanker	RF type
Audio Output Power	2.5W @ 10% THD
Audio Frequency Response	300 to 2500 Hz
Built-in Speaker	8 Ohms, 4 Watts
External Speaker (Not Supplied)	8 Ohms, 4 Watts

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

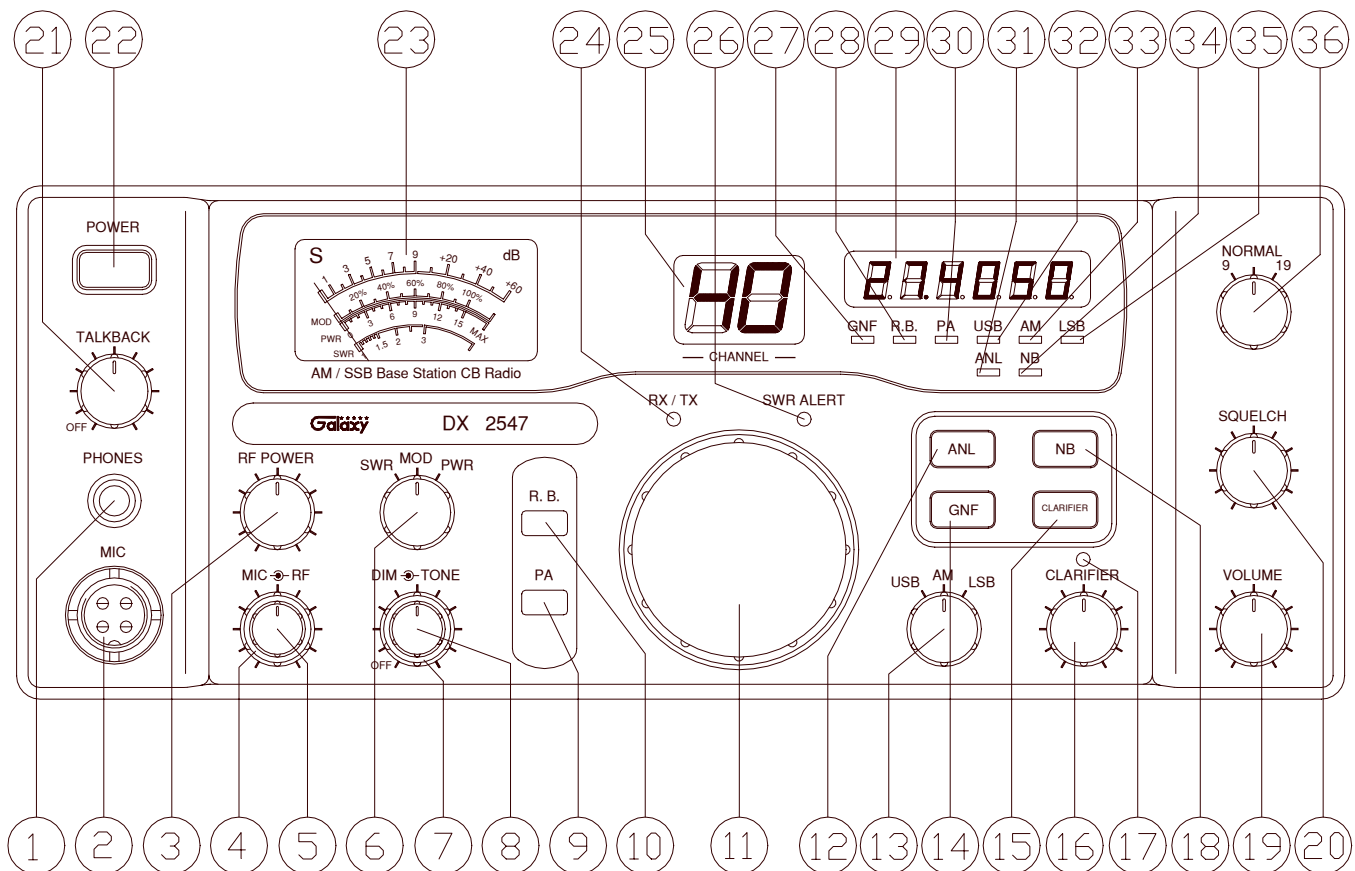


Figure 2-1 Front Panel

2.0 INTRODUCTION

This section explains the basic operating procedures for the Galaxy DX 2547 Base Station transceiver.

2.1 CONTROL AND CONNECTIONS

2.1.1 FRONT PANEL

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

1. PHONE JACK

Used to connect headphones.

2. MICROPHONE JACK

Used to connect microphone supplied with your radio.

3. RF POWER CONTROL

This control allows the user to adjust RF power output.

4. RF GAIN CONTROL

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

5. MIC GAIN CONTROL

Adjusts the microphone gain in the transmit and PA mode. This controls the gain to the extent that full talk power is available several inches away from the microphone. In the Public Address (PA) mode, the control functions as the volume control.

6. 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. It is the most accurate when testing at four watts output. This operates in AM only, not in SSB. When this switch is in “PWR” position, the meter indicates your power output.

7. TONE CONTROL

This controls changes tone quality in receive only. Rotating the knob clockwise increases treble, counter clockwise rotation increases bass.

8. DIMMER CONTROL

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

9. PA SWITCH

When this switch is pressed in, your voice will be heard only if an external speaker has been plugged into the “PA.” jack on the back of the radio. The radio does not operate when you are in the “PA” mode.

10. ROGER BEEP SWITCH

When this switch is pressed in, the radio transmits an audio tone at the end of your transmission to indicate that transmission has ended. As a courtesy to others, use the Roger Beep only when necessary.

11. CHANNEL SELECTOR

This control is used to select a desired transmit and receive channel.

12. ANL SWITCH

When this switch is pressed in, the Automatic Noise Limiter is activated.

13. MODE SWITCH

This control allows you to select one of the following operating modes: USB, AM or LSB.

14. GNF SWITCH

When this switch is pressed in, the radio is in CB operation but the Galaxy Noise Filter is engaged. This is a special noise filter that de-emphasizes audio high frequency response in order to increase the signal-to-noise ratio of weak signals. While you will notice a dramatic reduction in the “rushing” sound when this filter is activated, it does not have much effect on the signal-to-noise ratio of strong signals. This filter works best in SSB mode and may cause AM receive to sound distorted.

15. CLARIFIER SWITCH

Pushing this switch turns the Clarifier on for receive tracking.

16. CLARIFIER CONTROL

When activated, allows adjustment of the receive frequency above or below the channel frequency by up to 800Hz. Although this control is intended primarily to tune in SSB signals, it may be used to optimize AM signals as well.

17. CLARIFIER LED

This LED lights when the Clarifier control is activated.

18. NB SWITCH

When this switch is pressed in, the Noise Blanker is activated. The Noise Blanker is very effective in eliminating repetitive impulse noise such as ignition interference.

19. VOLUME CONTROL

Turn clockwise to set the desired listening level.

20. SQUELCH CONTROL

This switch is used to eliminate background noise being heard through the receiver which can be disturbing when no signal is being received. To use this feature of your radio, gently turn the switch fully counterclockwise, and then turn clockwise until the background noise is just eliminated. Further clockwise rotation will increase the threshold level so that only strong signals will be heard.

21. TALKBACK CONTROL

Adjust this knob for desired volume of Talkback. This is used to monitor your own voice. For example, you could use this feature to compare different microphones.

22. POWER ON/OFF SWITCH

Push this switch to apply power to the unit.

23. FRONT PANEL METER

The Front Panel Meter allows the user to monitor incoming signal strength, RF output power, SWR and AM Modulation level.

24. TX/RX LED

This LED lights red during transmit and green during receive.

25. CHANNEL DISPLAY

The channel display indicates the current selected channel.

26. SWR ALERT 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.

27. GNF LED

This LED lights red when the GNF is on.

28. R.B. LED

This LED lights red when the Roger Beep is on.

29. FREQUENCY COUNTER

This display indicates the frequency of the selected channel.

30. PA LED

This LED lights red when the radio is in the PA mode.

31. ANL LED

This LED lights red when the ANL is on.

32. USB LED

This LED lights red when the radio is in the USB mode.

33. AM LED

This LED lights red when the radio is in the AM mode.

34. NB LED

This LED lights red when the NB is on.

35. LSB LED

This LED lights red when the radio is in the LSB mode.

36. CH9/NORMAL/CH19 SWITCH

This control allows you to select channel 9 or channel 19 instantly. When the switch is placed in the "NORMAL" position, the user is able to select a desired transmit and receive channel with the channel selector switch.

2.1.2 REAR PANEL

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

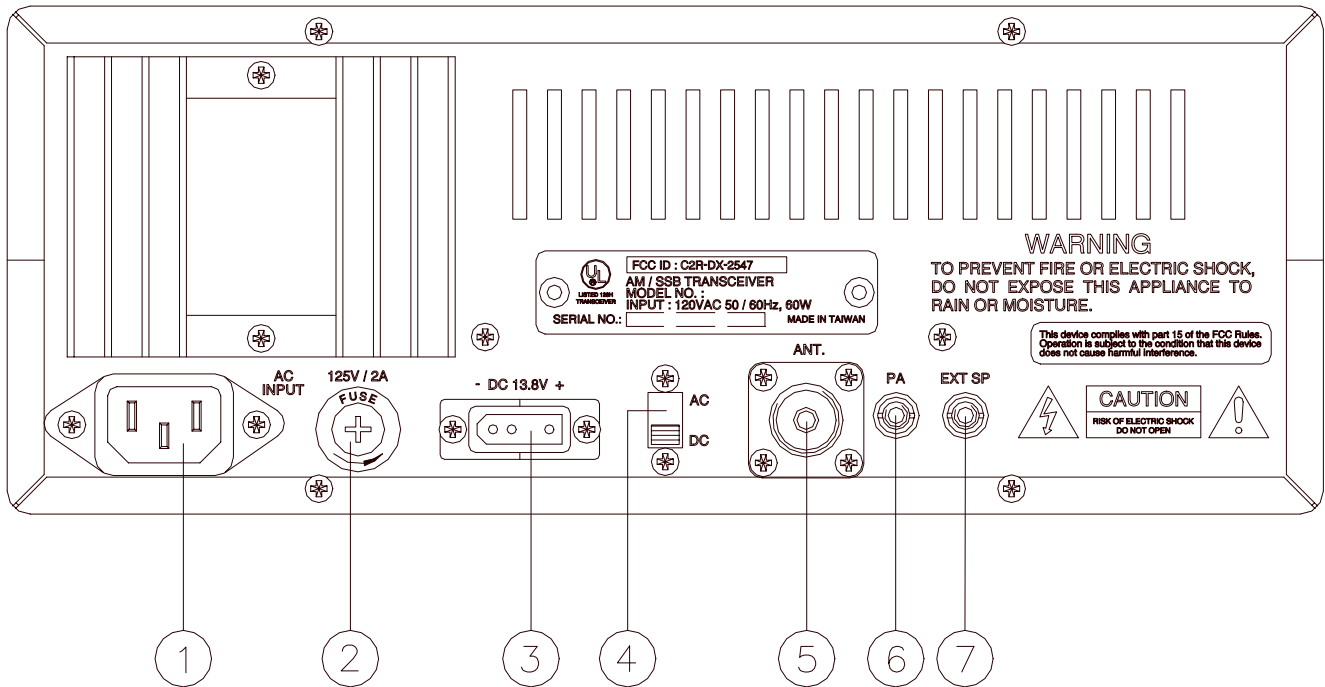


Figure 2-2 Rear Panel

1. AC POWER CORD

Connect to AC power outlet for AC main supply.

2. FUSE

Accommodates a fuse for AC input circuit protection. Use a 125V 2A fuse for replacement.

3. DC POWER

This accepts a 13.8V DC power cable with built-in 7A fuse. The power cord provided with the radio has a black and red wire. The black goes to negative and the red goes to positive.

4. AC/DC POWER SELECTOR

This control is used to select a desired power supply of AC power or DC power.

5. ANTENNA

This jack accepts 50 ohms coaxial cable with a PL-259 type connector.

6. PA

This jack is for PA operation. Before operating, you must first connect a PA speaker (8 ohms, 4W) to this jack.

7. EXT SP

This jack accepts a 4 to 8 ohm, 4 watt external speaker. When the external speaker is connected to this jack, the built-in speaker will be disabled.

2.1.3 FREQUENCY CHART

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

2.2 MICROPHONE

The receiver and transmitter are controlled by the push-to-talk switch on the microphone. Press the switch and the transmitter is activated, release the switch to receive. When transmitting, hold the

microphone two inches from your mouth and speak clearly in a normal voice. The radio comes complete with a low impedance (500 ohm) dynamic microphone.

2.3 OPERATION

2.3.1 PROCEDURE TO RECEIVE

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

2.3.2 PROCEDURE TO TRANSMIT

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

2.4 ALTERNATE MICROPHONES AND INSTALLATION

For best results, the user should select a low impedance dynamic type microphone or a transistorized microphone. Transistorized type microphones have a low output impedance characteristic. The microphones must be provided with a four-lead cable. The audio conductor and its shielded lead

comprise two of the leads. The third lead is for transmit control and the fourth is for receiving control. The microphone should provide the functions shown in the schematic below (Figure 2-3).

4 WIRE MIC CABLE

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

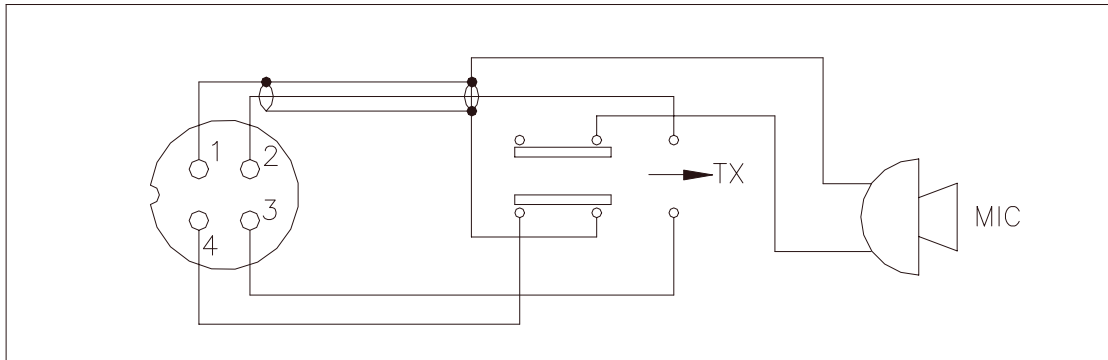


Figure 2-3 Your Transceiver Microphone Schematic

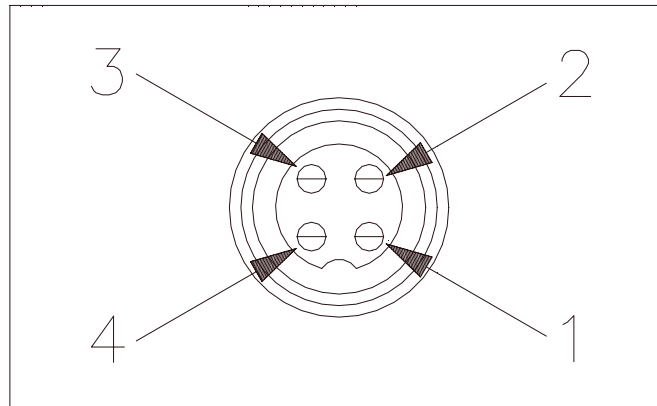


Figure 2-4 Microphone plug an pin numbers viewed from rear of pin receptacle.

3.0 INTRODUCTION

This section explains the technical theory of operation for the Galaxy DX 2547 Base Station transceiver.

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-0501. The GPS-0501 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 dual mosfet mixer circuit of Q18/Q19 and then into the AM/SSB IF section of the receiver (depending on the mode of operation). The signal is then detected by either the AM detector or product detector and then fed to the audio amplifier section of the receiver and finally out to the speaker.

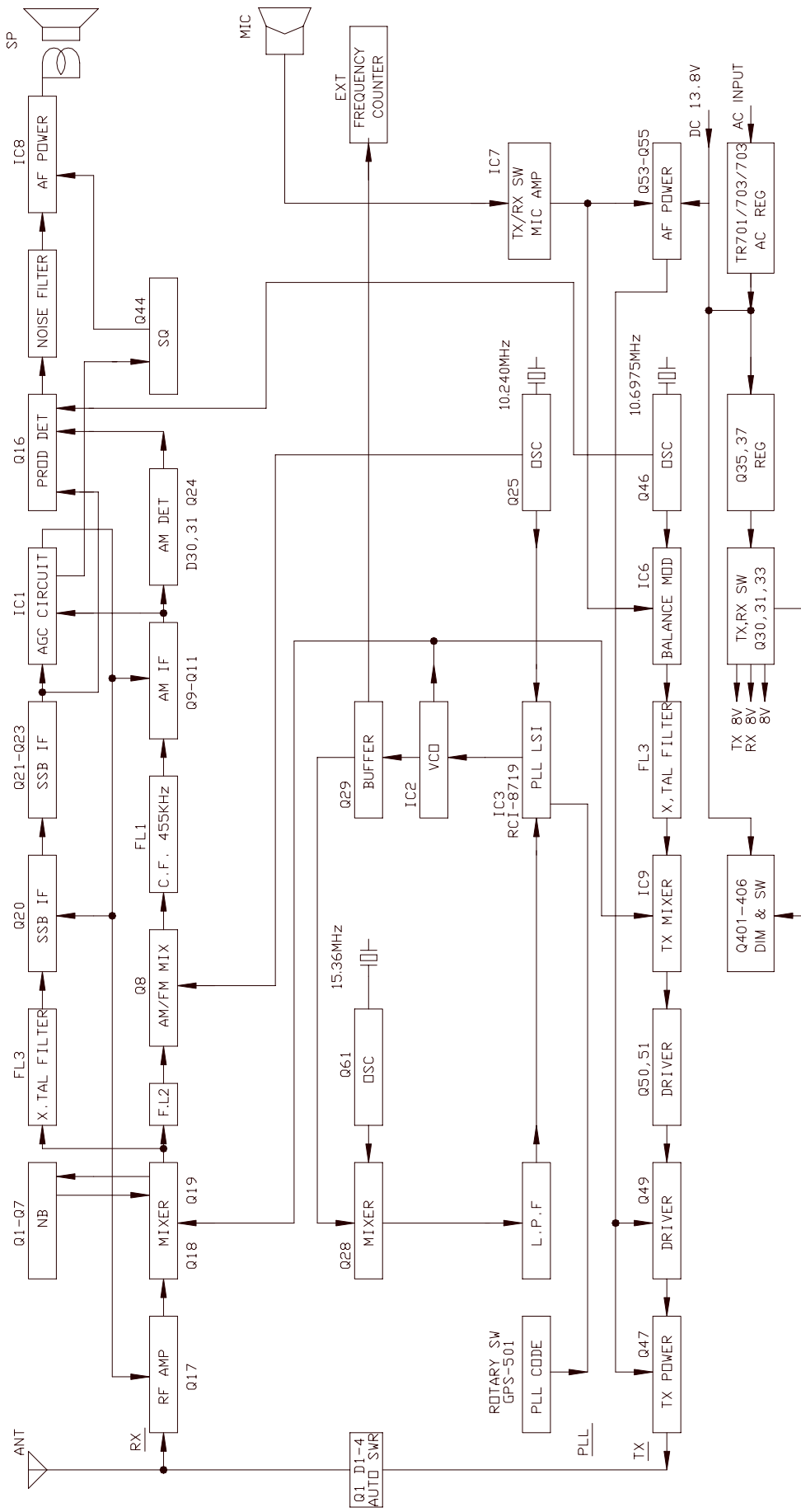
3.3 TRANSMITTER MODULATION CIRCUIT

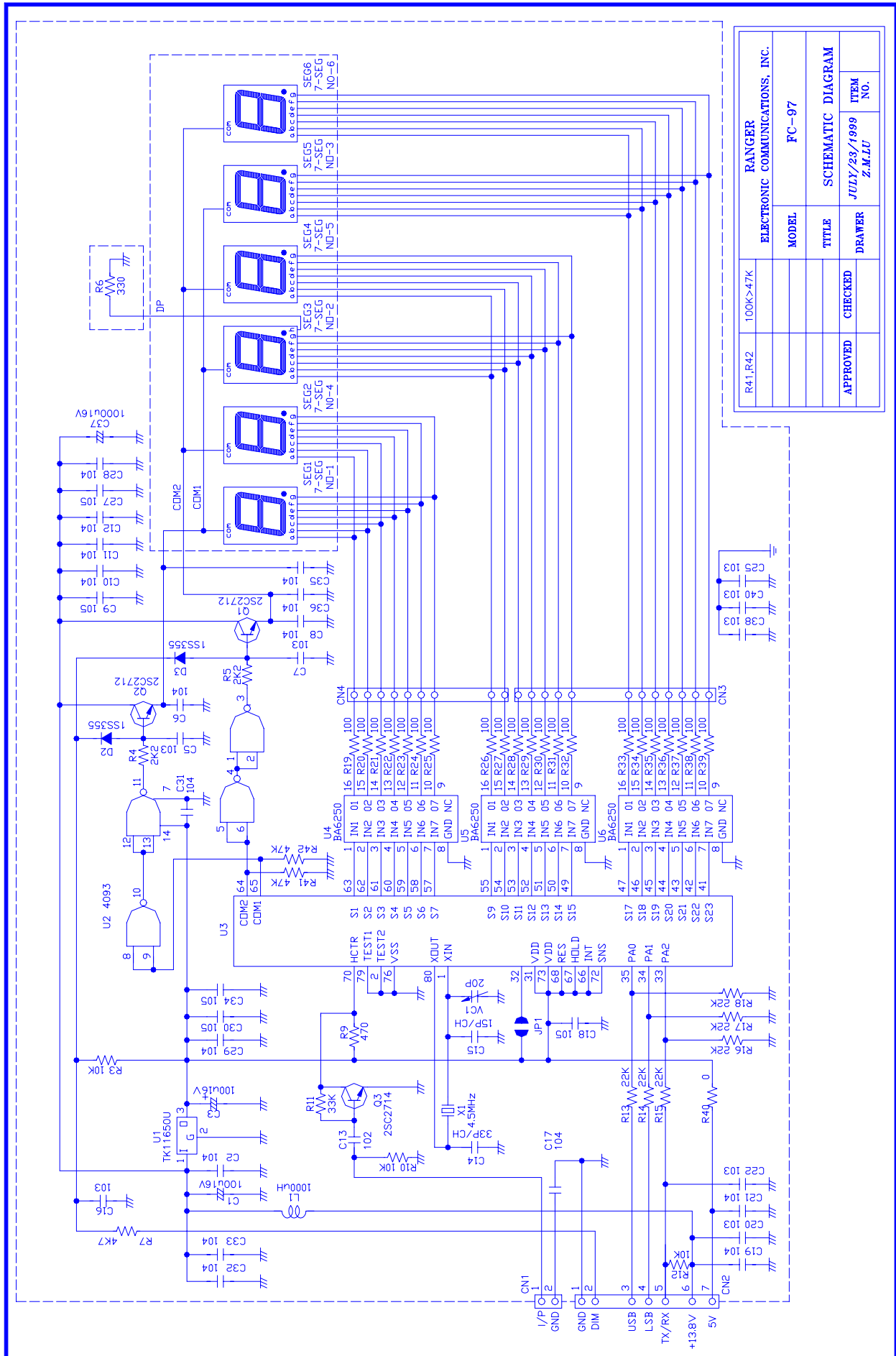
- (i) The transmitter modulation circuit modulates the low-level RF signal from the PLL exciter circuit with the user's audio voice signal from the microphone. The audio from the microphone is then amplified and fed into the transmit amplifier circuit.
- (ii) If the transceiver is in the AM mode, the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

3.4 TRANSMITTER AMPLIFIER CIRCUIT

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

DX-2547 BLOCK DIAGRAM





R41,R42	100K>47K	RANGER	
		ELECTRONIC COMMUNICATIONS, INC.	
		MODEL	FC-97
		TITLE	SCHEMATIC DIAGRAM
APPROVED	CHECKED	DRAWER	JULY/23/1999
			Z.M.LU
			ITEM NO.

4.0 REQUIRED TEST EQUIPMENT

- ① DC Power Supply (13.8VDC, 10A)
- ② RF Wattmeter (100 MHz, 50W)
- ③ Multimeter (Digital)
- ④ Automatic Modulation Meter
- ⑤ Audio Signal Generator
- ⑥ 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 is used for the test setup or alignment shown in Figure 4-1 Transmitter Test Setup and Figure 4-2 Receiver Test Setup. This test setup is used in part or total during the following adjustments. Refer to Page 43 for adjustment location.

4.1.1 PLL ALIGNMENT

ITEM	U.U.T. SETTING	ADJUST POINT	MEASUREMENT
Regulator Voltage	Connect Voltmeter positive lead to power switch. Connect Voltmeter negative lead to PCB ground.	VR701	13.8 VDC
VCO	Disconnect 'short PCB' from TP7, TP8 and TP9. Set radio to CH 1 AM RX mode. Connect Voltmeter to TP2.	L14	2.5 VDC ± 0.1
	Set CLARIFIER Control to 12 o'clock. Connect Oscilloscope to TP3.	L15	Adjust for max.
	Connect Frequency Counter to IC3 Pin 8.	VC1	10.2400MHz ± 20Hz
AM Frequency	Set radio to CH 1 AM RX mode. Connect Frequency Counter to TP3.	L20	16.2700MHz ± 20Hz
USB Frequency	Set radio to CH 1 USB RX mode. Connect Frequency Counter to TP3.	L21	16.2725MHz ± 20Hz
LSB Frequency	Set radio to CH 1 LSB RX mode. Connect Frequency Counter to TP3.	L22	16.2675MHz ± 20Hz
TX Offset Frequency	Set radio to CH 1 AM TX mode. Connect Frequency Counter to TP3.	VR7	16.2675MHz ± 20Hz
AM OSC	Set radio to CH 1 AM TX mode. Connect Frequency Counter to TP5.	L23	10.6950MHz ± 10Hz
USB OSC	Set radio to CH 1 USB TX mode. Connect Frequency Counter to TP6.	L24	10.6925MHz ± 10Hz
LSB OSC	Set radio to CH 1 LSB TX mode. Connect Frequency Counter to TP6.	L25	10.6975MHz ± 10Hz

4.1.2 TRANSMITTER ALIGNMENT

ITEM	U.U.T. SETTING	ADJUST POINT	MEASUREMENT
BIAS Current	Set radio to CH 19 USB TX mode. Modulation Off. Connect current meter to TP7(+) and TP9 (-) Connect current meter to TP7 (+) and TP8 (-)	VR12 VR10	50 mA 100 mA
SSB APC	Set radio to CH 19 USB RX mode. Connect Multimeter to TP7.	VR17	12.5 VDC
SSB TX Power	Connect “short PCB” to TP7, TP8 and TP9. Connect RF Power Meter to antenna jack. Set radio to CH 19 USB TX mode. AF signal 30mV, 1 KHz to microphone. Set RF PWR Fully Clockwise. Set MIC GAIN Fully Clockwise.	L40,L42, L43,L44	MAX > 12W Spurious Emission Minimum. Balance Power Between CH1 and CH40.
SSB ALC	Set radio to CH 19 USB TX mode. AF signal 30mV, 1 KHz to microphone.	VR13	11.5 W
SSB Carrier Balance	Set radio to CH 19 USB TX mode. Set MIC GAIN Fully Counter Clockwise. Connect Oscilloscope to antenna connector.	VR6	Spurious Emission to Minimum.
AM TX High Power	Set radio to CH 19 AM TX mode. Modulation Off.	VR14	3.8 W
AM TX Low Power	Set RF POWER fully counterclockwise.	VR18	0.5W
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 Modulation Meter	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 95% on the Modulation scale.
Frequency Counter Adjust	Set radio to CH 19 AM RX mode. Set CLARIFIER Control to 12 o'clock.	VC1 on frequency counter	Display should be 27.1850

4.1.3 RECEIVER ALIGNMENT

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

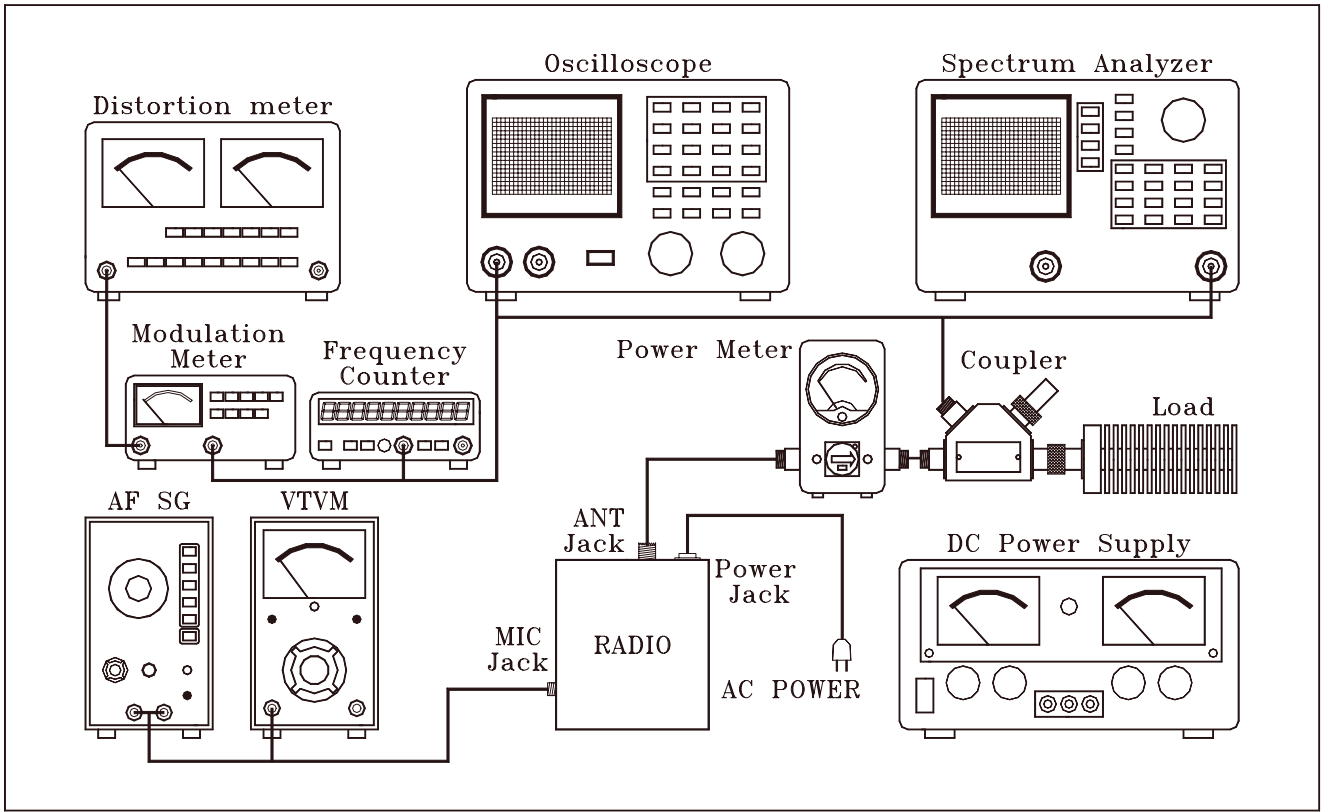


Figure 4-1 Transmitter test setup

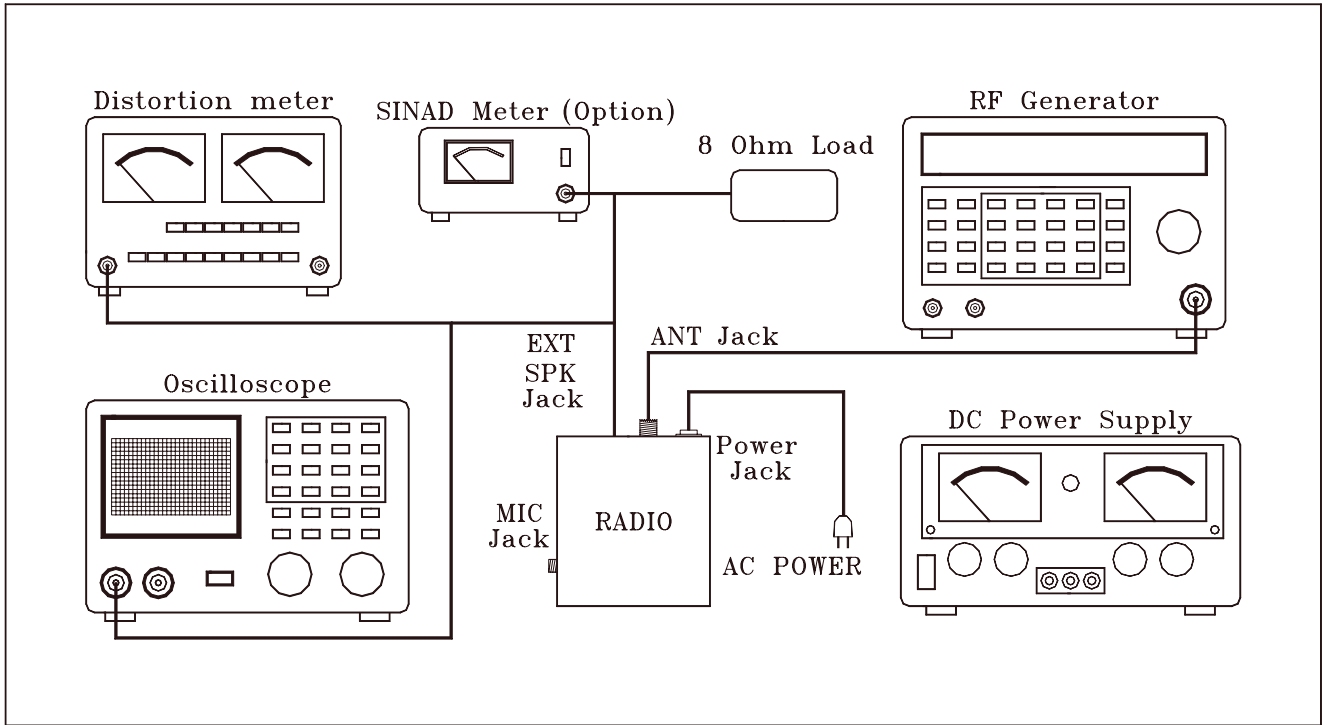


Figure 4-2 Receiver test setup

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 and does not exceed 110 VAC.
- (iii) During alignment, do not transmit for more than 10 seconds at a time. 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, seal with vinyl tape. If immersed with 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.

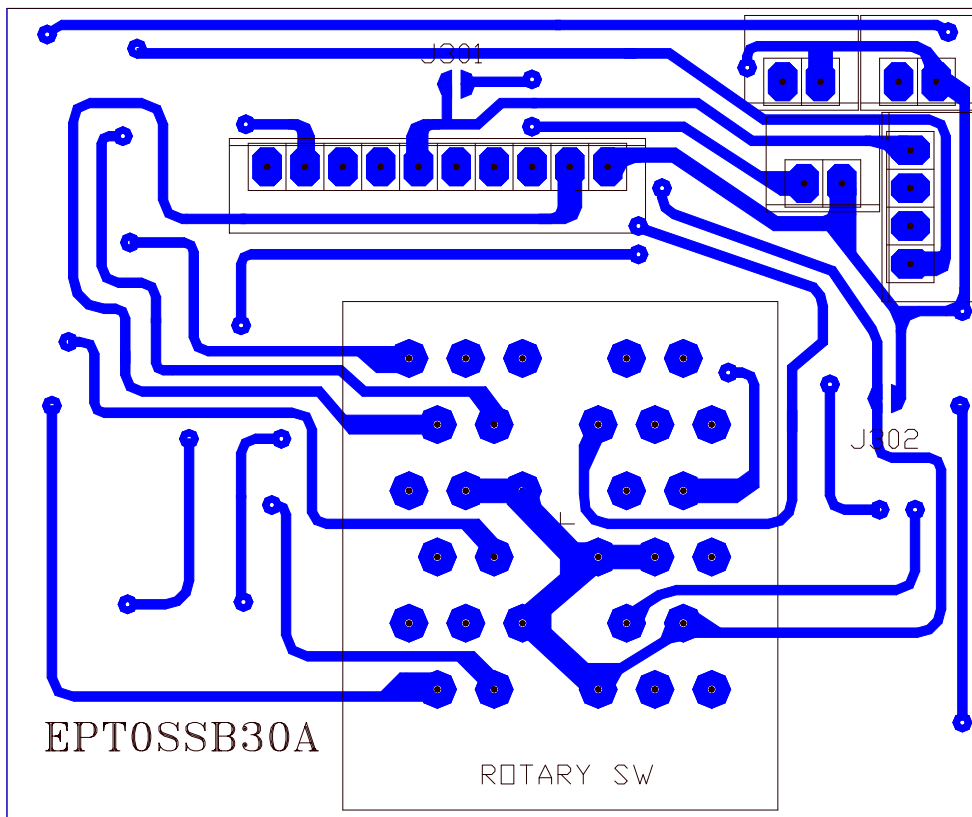
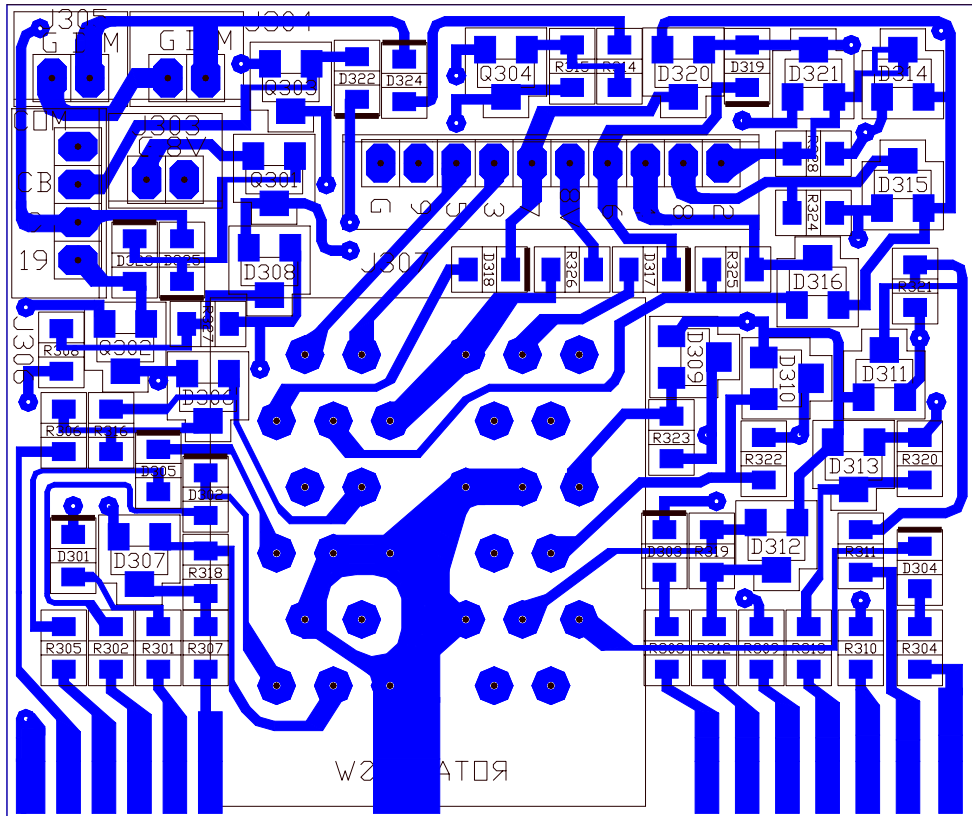
5.2 FUSE REPLACEMENT

To protect the equipment from serious damage, a fuse is provided on the power supply lines. The fuses protect 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.



PART LIST:

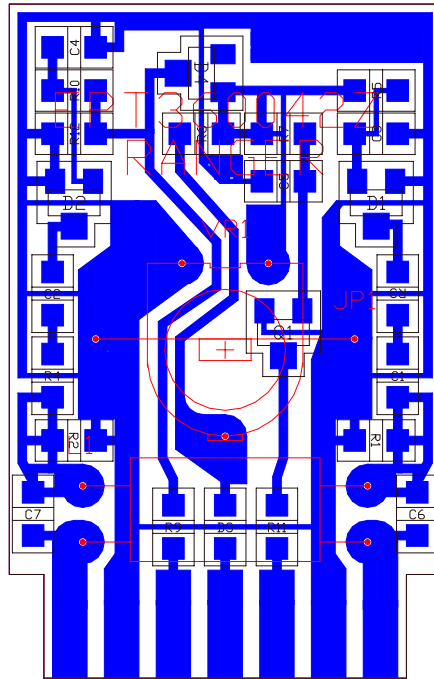
DX 2547 ROTARY SW P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT0SSB30A	ROTARY SW PCB
2	R301	RCY014714Z	C/F/R 470 Ω 0.1W
3	R302,R303,R304,R305, R306,R308,R309,R310, R311,R312,R313	RCY011024Z	C/F/R 1K Ω 0.1W
4	R314	RCY013324Z	C/F/R 3.3K Ω 0.1W
5	R315	RCY011034Z	C/F/R 10K Ω 0.1W
6	D306,D307,D308, D309,D310,D311, D312,D313,D321	EDSS00181Y	DIODE 1SS181-TE85L
7	D314,D315,D316,D320	EDSS00184Y	DIODE 1SS484-TE85L
8	D301,D302,D303,D304, D305,D317,D318,D319, D322,D323,D324	EDSS00355Y	DIODE 1SS355
9	Q304	TY2SC2715G	TR 2SC2712GR-TE85L
10	Q301,Q302,Q303	TYZRN1403Z	TR RN1403-TE85L
11	ROTARY SW	EWRT32000S	ROTARY SW
12	J306	EX07N48490	PCB CONN/S 4PIN
13	J307	EX07N48209	PCB CONN/S 10PIN

REMARK:

TOP: COPPER SIDE (BLUE)

BOTTOM: COMPONENT SIDE (BLUE)



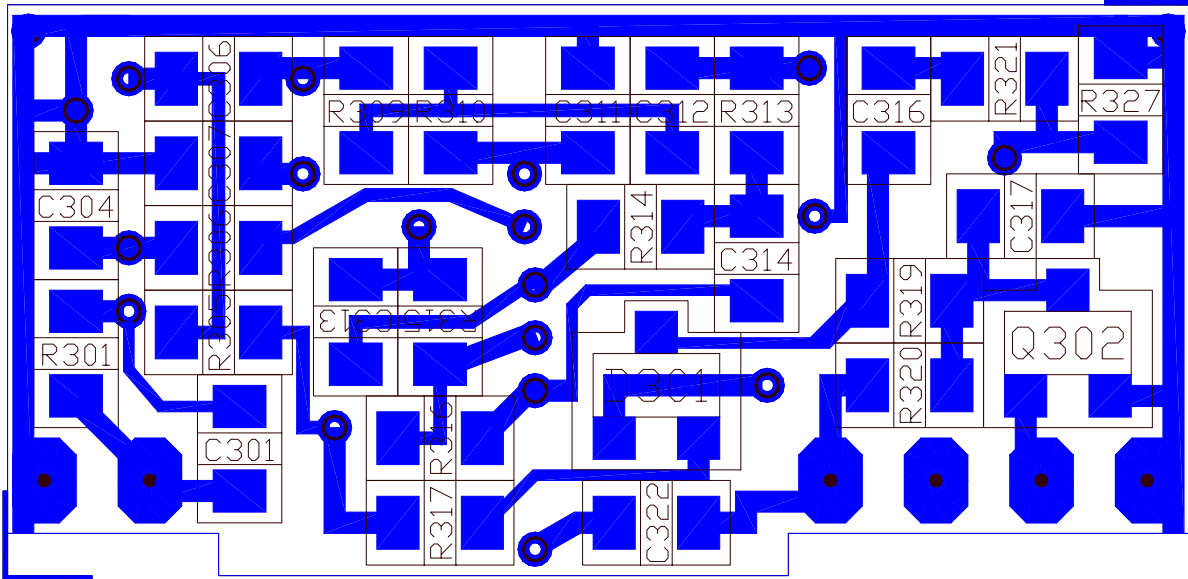
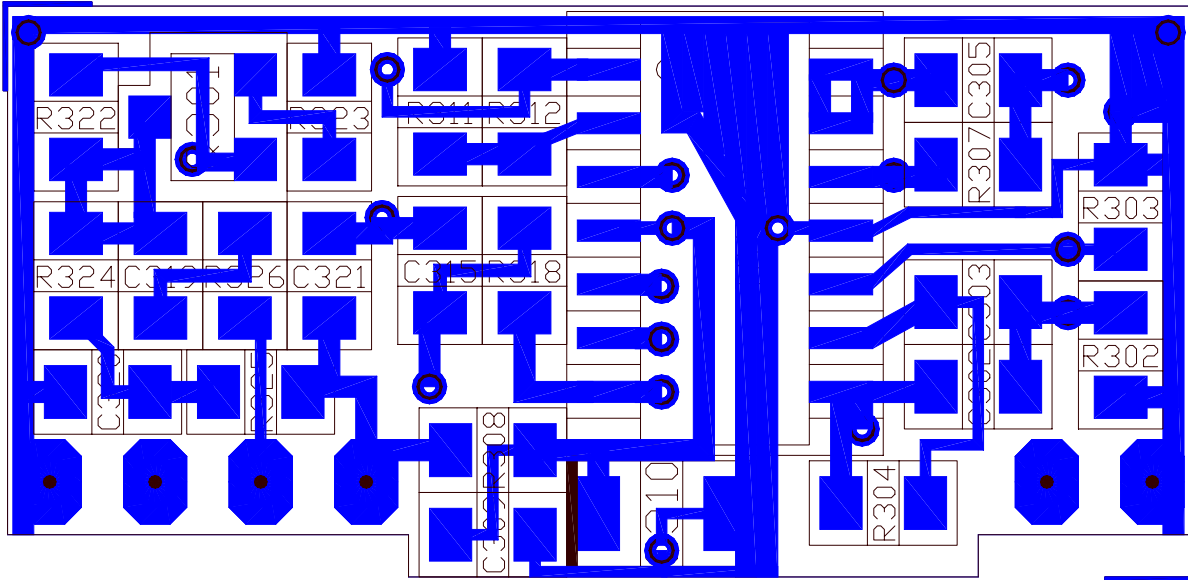
PART LIST:

DX 2547 HP 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	RCY012224Z	2.2K OHM 0.1W
8	R12	RCY014724Z	4.7K OHM 0.1W
9	R7	RCY011034Z	10K OHM 0.1W
10	C5	RCY012234Z	22K OHM 0.1W
11	C7	CK1059AB1A	0.5PF 50WV
12	C6	CK1030AB1A	3PF 50WV
13	C3,C4	CK2104AB7R	0.1uF 25WV
14	C1,C2	CK1103AB7L	0.001uF 50WV
15	Q1	TY2SC2712G	TR 2SC2712GR
16	D3	EDSS00355Y	DIODE 1SS355
17	D1,D2	EDHM0198SY	DIODE HSM198S
18	D4	EDMA0028TY	DIODE MA28T
19	L1	ECRFZ10053	RF COIL C3RH0610
20	VR1	RE10300009	S/F/R 10K OHM
21	JP1	WX01070715	JUMPER WIRE

REMARK:

COPPER SIDE (BLUE)



PART LIST:

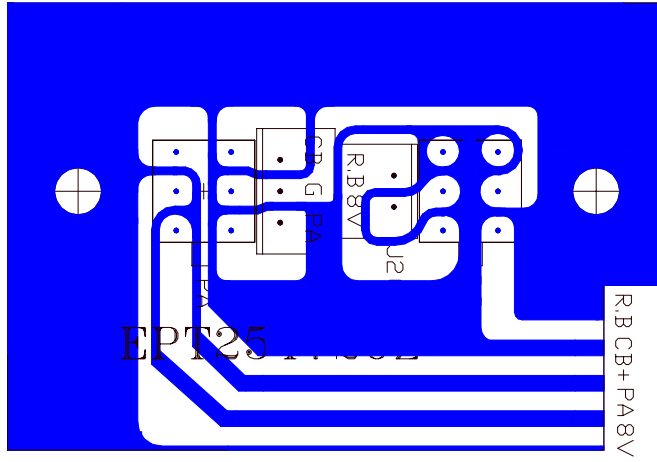
DX 2547 HP ANT P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT009830Z	ANT PCB
2	R312	RCY011004Z	C/F/R 10 Ω 0.1W
3	R308	RCY011014Z	C/F/R 100 Ω 0.1W
4	R316	RCY012714Z	C/F/R 270 Ω 0.1W
5	R323	RCY012224Z	C/F/R 2.2K Ω 0.1W
6	R324	RCY014724Z	C/F/R 4.7K Ω 0.1W
7	R325	RCY011024Z	C/F/R 1K Ω 0.1W
8	R309,R310,R311,R313- R315,R318-R321,R326	RCY011034Z	C/F/R 10K Ω 0.1W
9	R305,R307,R317	RCY011534Z	C/F/R 15K Ω 0.1W
10	R302,R327,R301	RCY014734Z	C/F/R 47K Ω 0.1W
11	R303,R304,R306,R322	RCY011044Z	C/F/R 100K Ω 0.1W
12	C302	CK1101AB5L	CHIP/C 100PF 50WV
13	C301,C307	CK1561AB5L	CHIP/C 560PF 50WV
14	C304,C316,C319,C320	CK2104AB7R	CHIP/C 0.1 μ F 25WV
15	C303	CK1223AB7R	CHIP/C 0.022 μ F 50WV
16	C309,C311,C317, C321,C322	CK1103AB6U	CHIP/C 0.01 μ F 50WV
17	C315	CK133AB6U	CHIP/C 0.033 μ F 50WV
18	C312,C314	CK1473AB7R	CHIP/C 0.047 μ F 50WV
19	C313	CK1332AB7R	CHIP/C .0033 μ F 50WV
20	C305,C306	CK1472AB5X	CHIP/C .0047 μ F 50WV
21	C310	CTY164756Z	T/C 4.7 μ F 16WV
22	IC301	YNJR00324M	IC NJM324M 14PIN
23	Q302	TYZRN1403Z	TR RN1403-TE85L
24	Q301	TY2SC2712G	TR 2SC2712GR-TE85L
25	D301	EDSS00226Y	DIODE 1SS226-TE85L
26	-	GZZZ50098Z	IC PIN

REMARK:

TOP: COPPER SIDE (BLUE)

BOTTOM: COMPONENT SIDE (BLUE)



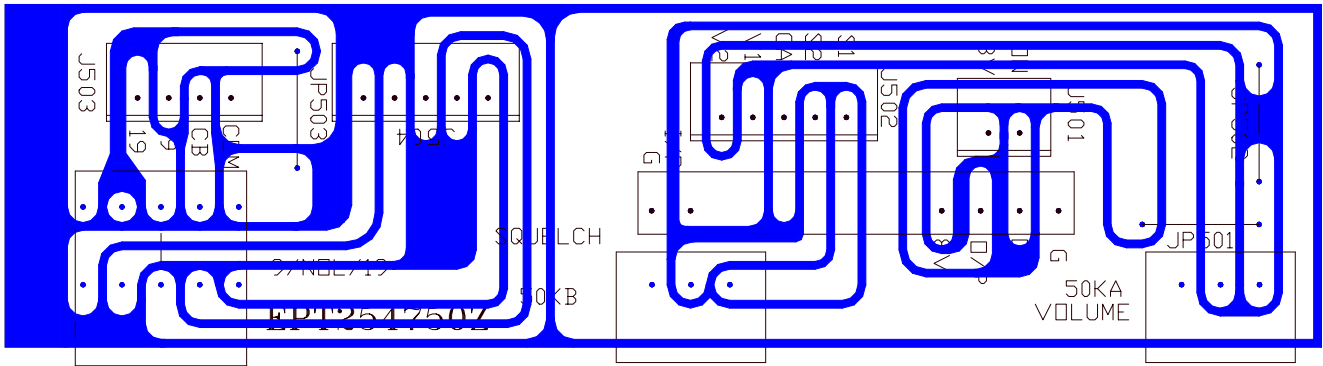
PART LIST:

DX 2547 PUSH SW P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT254720Z	PUSH SW PCB
2	PA,RB	EWPS33033X	PUSH SW
3	J201	EX07N49140	PCB CONN/S 2PIN
4	CB/G/PA	EX07N49144	PCB CONN/S 3PIN

REMARK:

COPPER SIDE (WHITE)



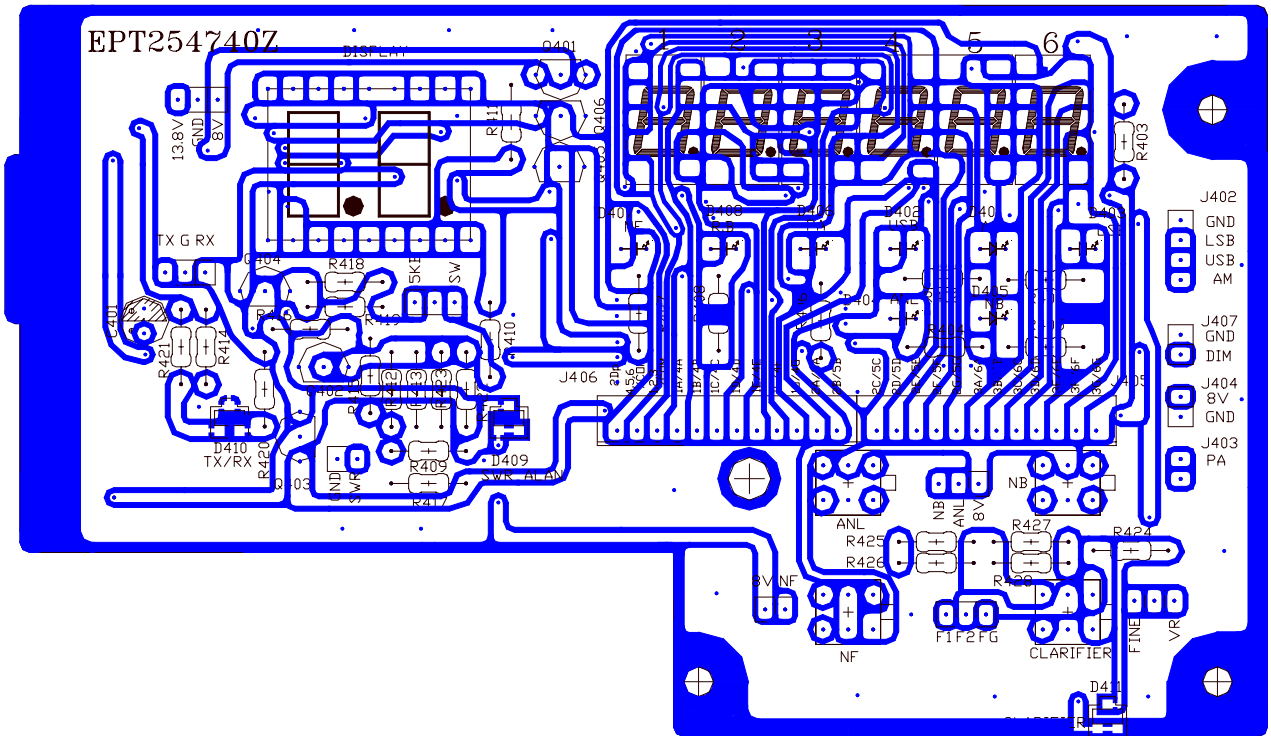
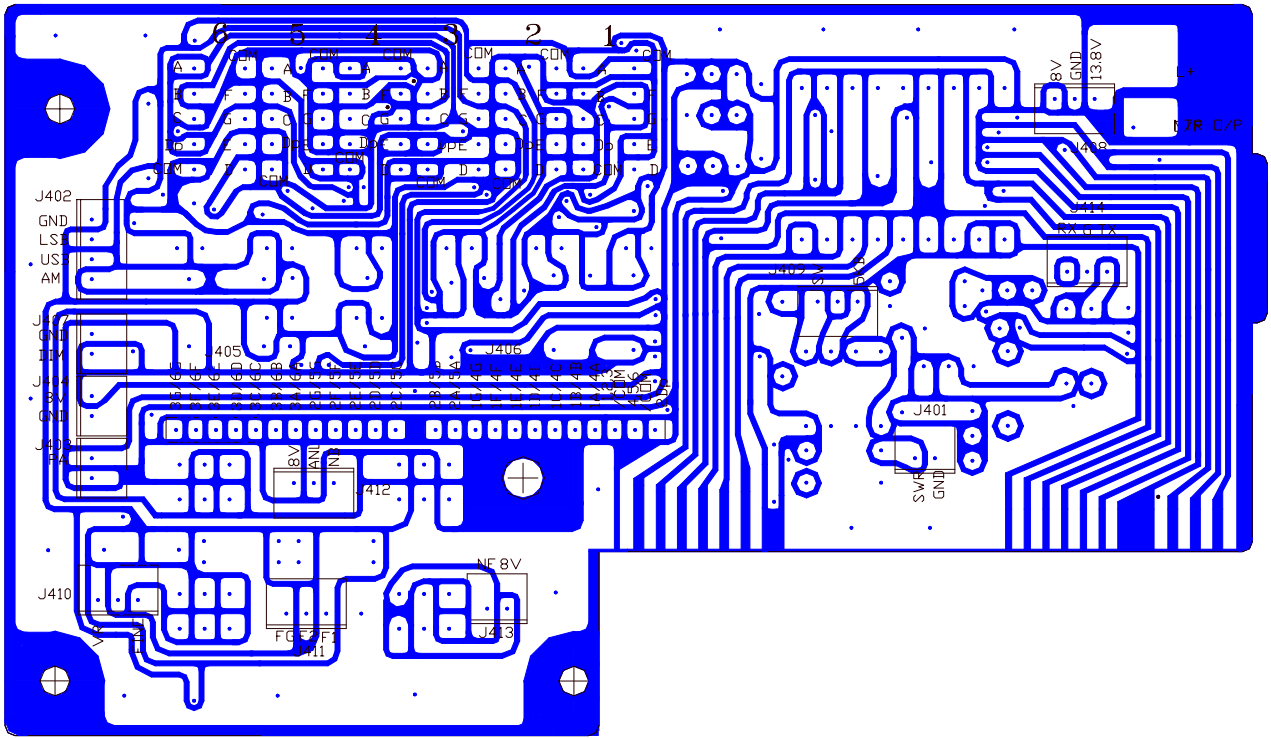
PART LIST:

DX 2547 PUSH SW P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT254750Z	PUSH SW PCB
2	J501	EX07N48234	PCB CONN/S 2PIN
3	J503	EX07N48761	PCB CONN/S 4PIN
4	J502	EX07N48667	PCB CONN/S 5PIN
5	9/NOL/19	EWRT32087S	ROTARY SW
6	SQUELCH	RV50303532	VR 50KB
7	VOLUME	RV50303547	V/R 50KA
8	JP501,502,503	WX01070708	JUMPER WIRE
9	PUSH SW PCB	ENRG0IC080	MODULAR-002B

REMARK:

COPPER SIDE (WHITE)



PART LIST:

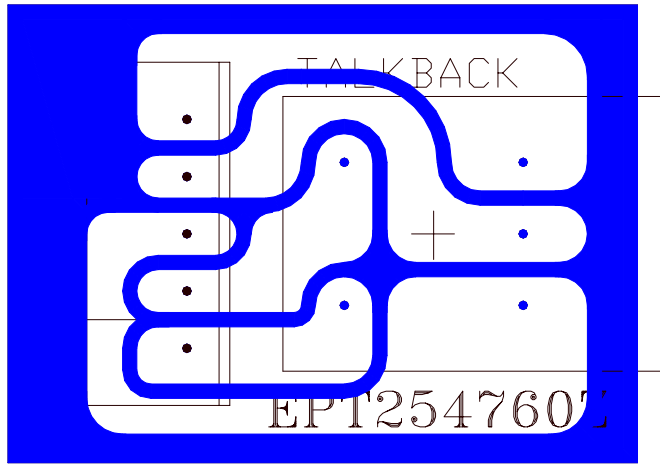
DX 2547 DISPLAY P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT254740Z	DISPLAY PCB
2	C401	CEM164767Z	E/C 47uF 16WV
3	R414,R420,R421	RCP160004Z	C/F/R 0 Ω 1/16W
4	R422	RCP161014Z	C/F/R 100 Ω 1/16W
5	R401-R408	RCP164714Z	C/F/R 470 Ω 1/16W
6	R409,R417,R425-R428	RCP161024Z	C/F/R 1K Ω 1/16W
7	R423	RCP166824Z	C/F/R 6.8K Ω 1/16W
8	R410,R418	RCP162234Z	C/F/R 22K Ω 1/16W
9	R419	RCP166834Z	C/F/R 68K Ω 1/16W
10	R411,R412,R413, R415,R416	RCP164734Z	C/F/R 47K Ω 1/16W
11	D410	EX01Y40114	LED LAMPS
12	D409,D411	EX01Y40116	LED LAMPS
13	D401-D408	EX01N40090	LED
14	1,2,3,4,5,6	EX03N40476	LED DISPLAY
15	DISPLAY	EX03N40488	LED DISPLAY
16	J401,J403,J407,J413	EX07N48223	PCB CONN/S 2PIN
	J409	EX07W48824	PCB CONN/S 3PIN
17	J408,J410,J411,J412,J414	EX07N48350	PCB CONN/S 3PIN
18	J402	EX07N48490	PCB CONN/S 4PIN
19	J405,J406	EX07N48928	PCB CONN/S 12PIN
20	ANL,NB,NF,CLARIFIER	EWPS33033X	PUSH SW
21	Q401-Q404	T2SC00945P	TR 2SC945P
22	Q405,Q406	TDTC0124ES	TR DTC124ES

REMARK:

TOP: COPPER SIDE (WHITE)

BOTTOM: COMPONENT SIDE (WHITE)



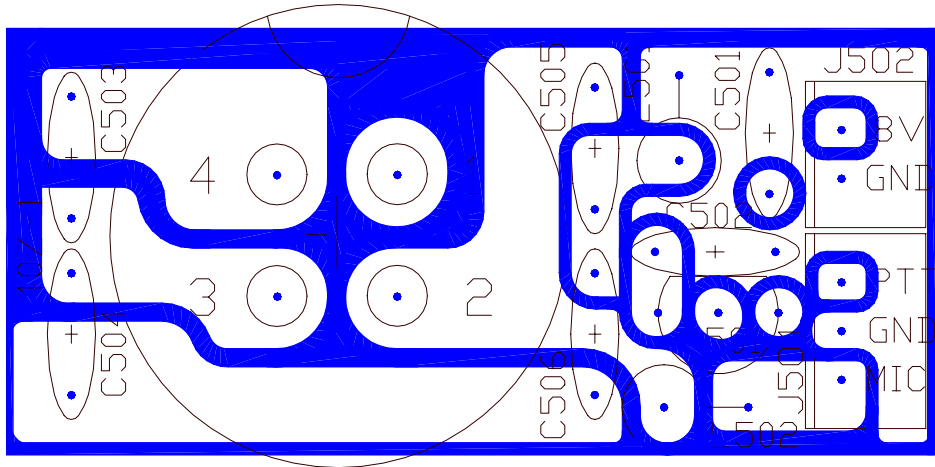
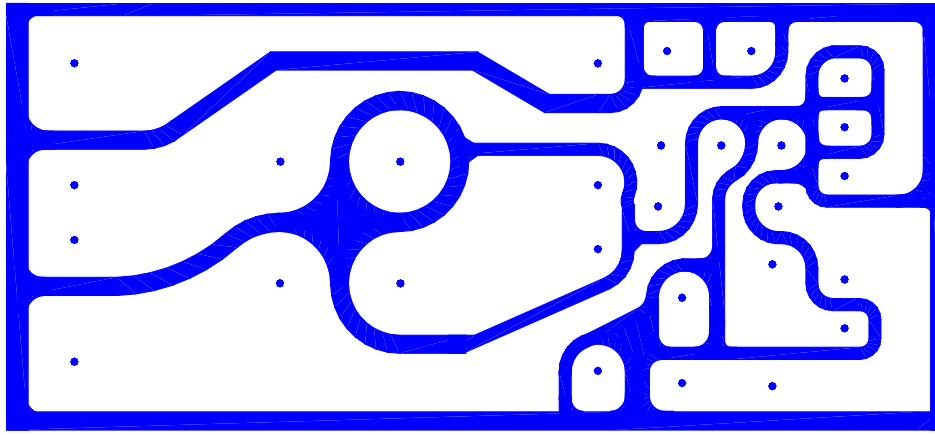
PART LIST:

DX 2547 TALKBACK P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT254760Z	TALKBACK PCB
2	TALKBACK PCB	EX07N48667	PCB CONN/S 5PIN
3	TALKBACK	RV20303558	VR 20 LA

REMARK:

COPPER SIDE (WHITE)



PART LIST:

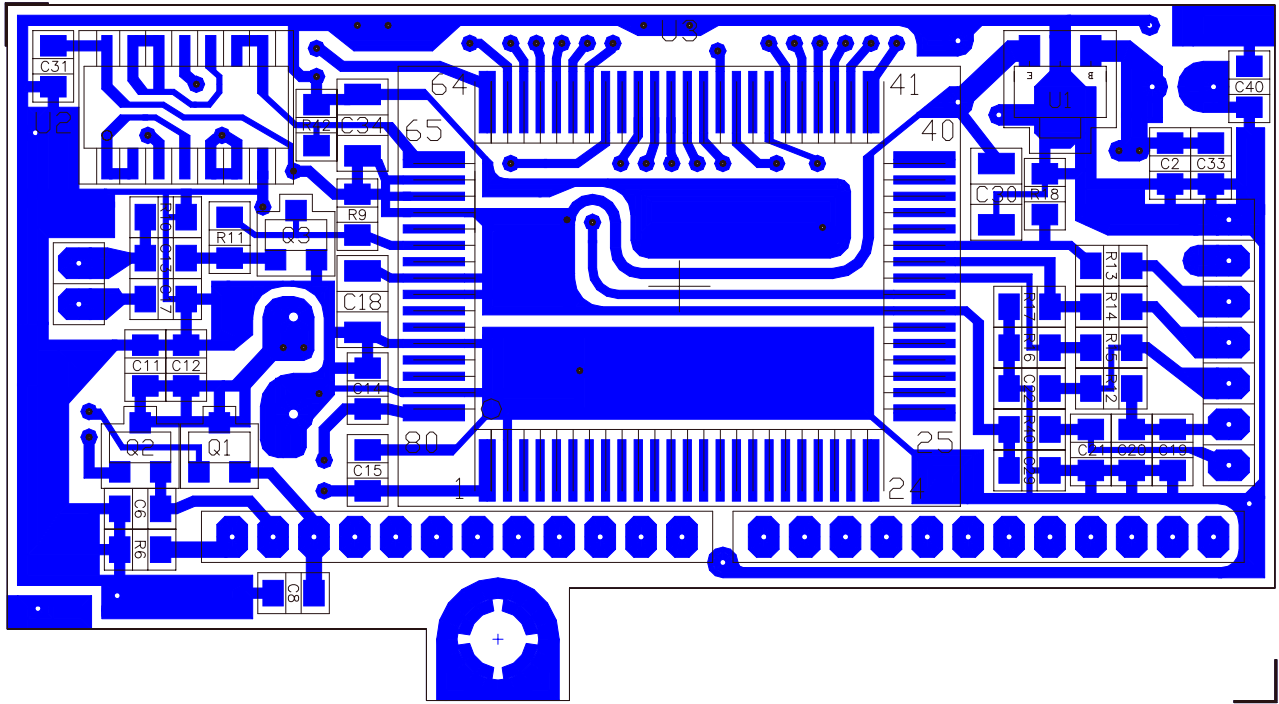
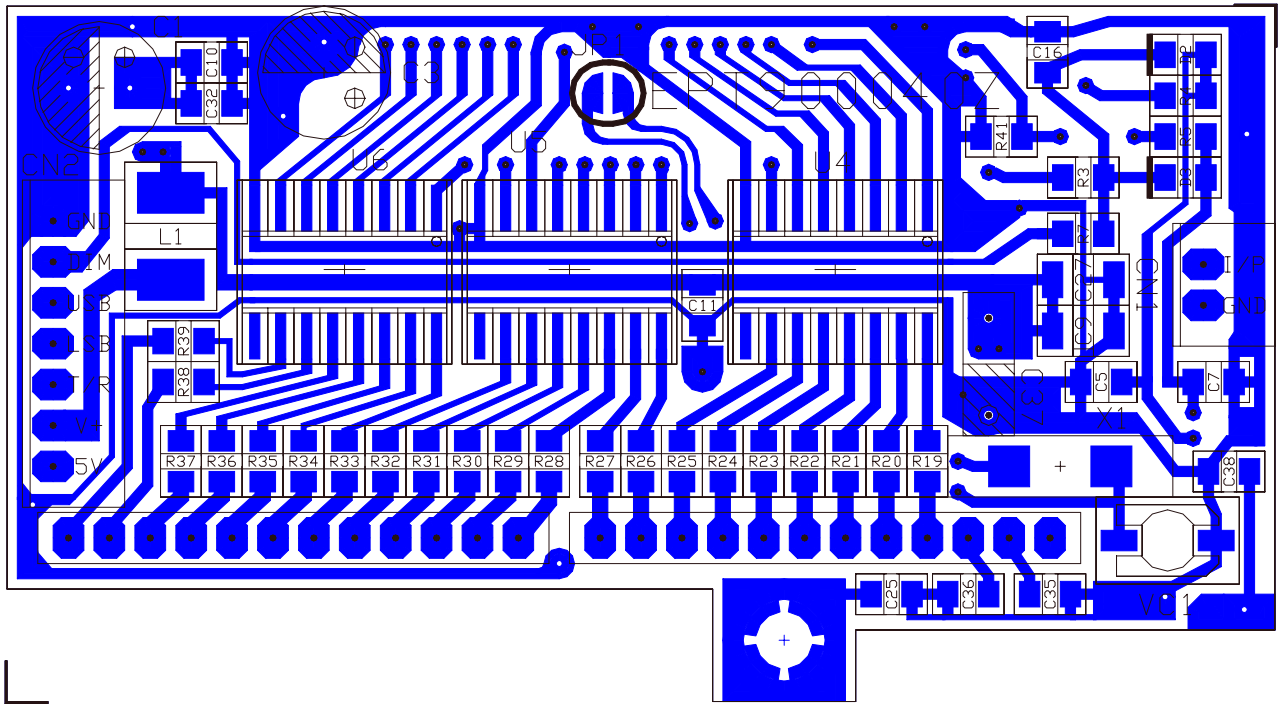
DX 2547 MIC P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT253750Z	MIC PCB
2	C503,C504,C505,C506	CC0501027L	C/C 0.001uF 50WV
3	C501,C502	CC0501037L	C/C 0.01uF 50WV
4	Q501	TDTA0124ES	TR DTA124ES
5	L501	ECCHK16001	CHOKE COIL
6	L502	ECBAD18506	BEAD COIL
7	1~4	EX06N41101	MIC JACK
8	J502	EX07N48223	PCB CONN/S 2PIN
9	J501	EX07N48350	PCB CONN/S 3PIN

REMARK:

TOP: COPPER SIDE (WHITE)

BOTTOM: COMPONENT SIDE (WHITE)



PART LIST:

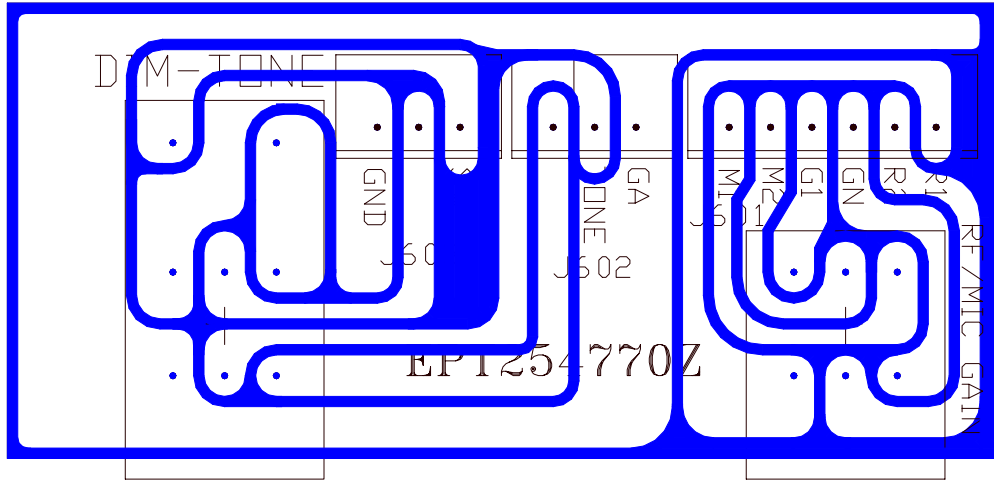
DX 2547 COUNTER P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT900040Z	COUNTER P.C.B
2	R40	RCY010004Z	0 OHM 0.1W
3	R19-R39	RCY011014Z	100 OHM 0.1W
4	R6	RCY013314Z	330 OHM 0.1W
5	R9	RCY014714Z	470 OHM 0.1W
6	R4,R5	RCY012224Z	2.2K OHM 0.1W
7	R7	RCY014724Z	4.7K OHM 0.1W
8	R3,R10,R12	RCY011034Z	10K OHM 0.1W
9	R13-R18	RCY012234Z	22K OHM 0.1W
10	R11	RCY013334Z	33K OHM 0.1W
11	R41,R42	RCY014734Z	47K OHM 0.1W
12	C15	CK1150AB4A	15PF 50WV
13	C14	CK1330AB4A	33PF 50WV
14	C2,C6,C8,C10,C11,C12, C17,C19,C21,C29,C31, C32,C33,C35,C36,C28	CK2104AB7R	0.1uF 25WV
15	C5,7,16,20,22,25,38,40	CK1103AB6U	0.01uF 50WV
16	C13	CK1102AB7L	0.001uF 50WV
17	C9,C18,C27,C30,C34	CK5105AA7R	1uF 16WV
18	U3	YNRG0GX3SP	IC LC7232N 18PIN
19	U2	YNTA04073B	IC TC4093BFN 14PIN
20	U4,U5,U6	YNR006250F	IC BA6250F 16PIN
21	U1	YNT011650U	IC TK11650U 3PIN
22	Q3	TY25C2714Z	TR 2SC2714
23	Q1,Q2	TY2SC2712G	TR 2SC2712GR
24	D2,D3	EDSS00355Y	DIODE 1SS355
25	L1	YCCHK16259	CHOKE COIL
26	VC1	CV038200AY	TRIMMER/C 20PF
27	C1,C3	CEM161077A	100uF 16WV
28	X1	EYCAP04500	CRYSTAL 4.500MHz
29	C37	CE0161087Z	1000uF 16WV
30	COUNTER PCB x 2pc	EX07N48927	PCB CONN/S 12PIN
31	CN1	EX07N48223	PCB CONN/S 2PIN
32	CN2	EX07N48224	PCB CONN/S 7PIN

REMARK:

TOP: COMPONENT SIDE (BLUE)

BOTTOM: COPPER SIDE (BLUE)



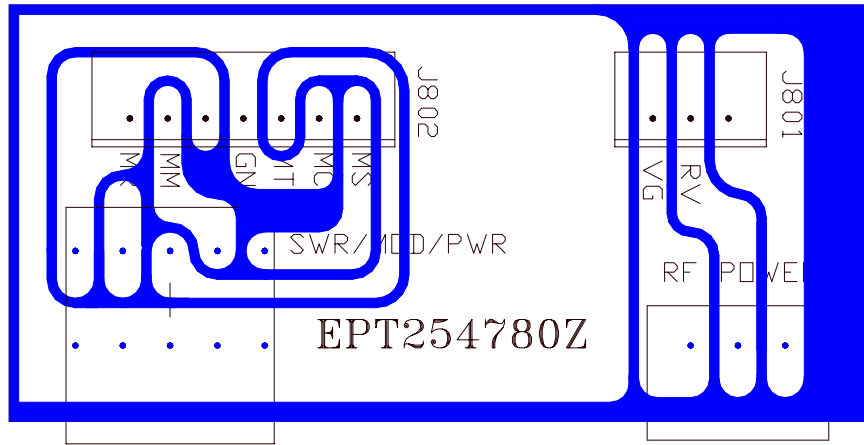
PART LIST:

DX 2547 DIM / RF / MIC GAIN P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT254770Z	DIM/RF/MIC GAIN PCB
2	J601	EX07N49095	PCB CONN/S 6PIN
3	J603	EX07N48947	PCB CONN/S 3PIN
4	J602	EX07N48234	PCB CONN/S 2PIN
5	RF/MIC GAIN	RV10203524	VR 1KB/1KA
6	DIM-TONE	RV20403546	V/R 200KA/5KB

REMARK:

COPPER SIDE (WHITE)



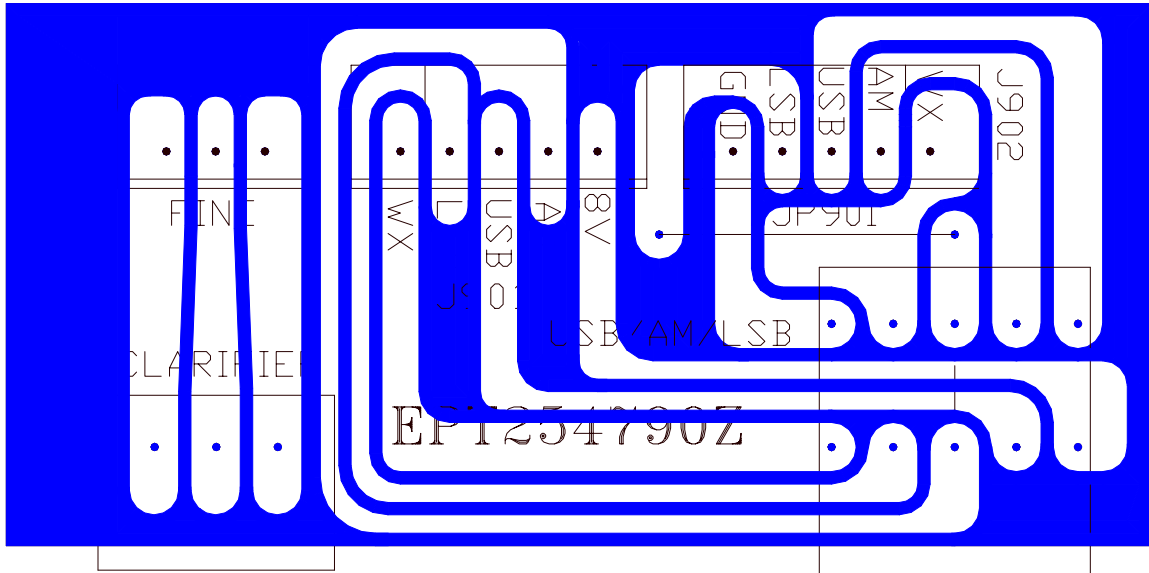
PART LIST:

DX 2547 RF / MOD P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT254780Z	RF / MOD P.C.B
2	J801	EX07N48234	PCB CONN/S 2PIN
3	J802	EX07N48620	PCB CONN/S 7PIN
4	SWR/MOD/PWR	EWRT32087S	ROTARY SW
5	RF POWER	RV50203525	VR 5KB

REMARK:

COPPER SIDE (WHITE)



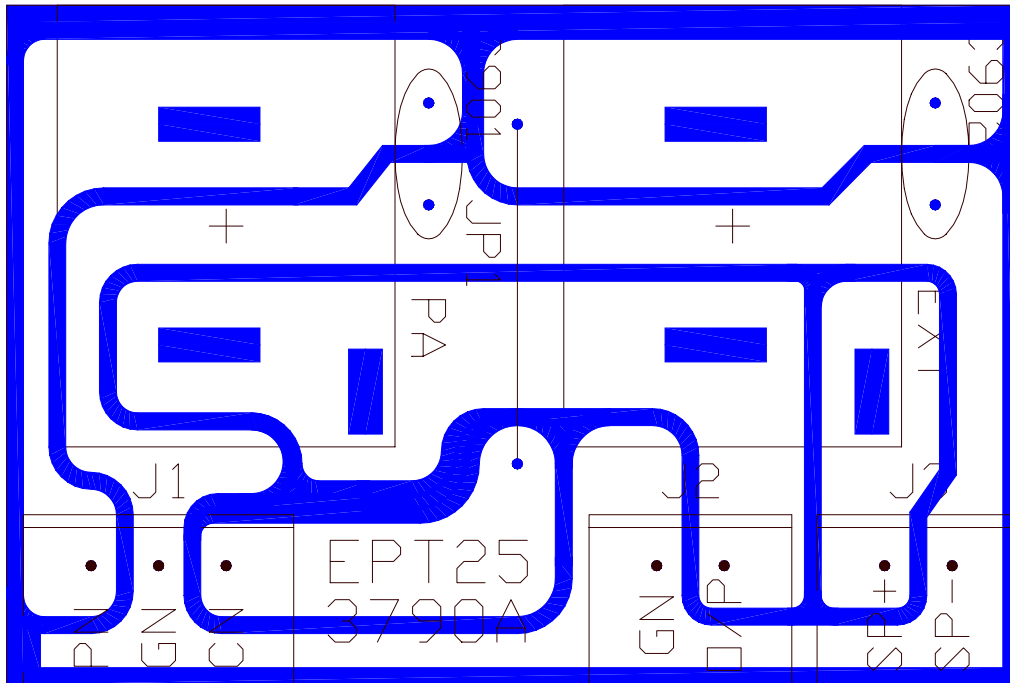
PART LIST:

DX 2547 MODE / FINE P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT254790Z	MODE / FINE PCB
2	J903	EX07NM48947	PCB CONN/S 3PIN
3	J901,J902	EX07N48761	PCB CONN/S 4PIN
4	USB/ AM/ LSB	EWRT32087S	ROTARY SW
5	CLARIFIER	RV10203528	VR IKB

REMARK:

COPPER SIDE (WHITE)



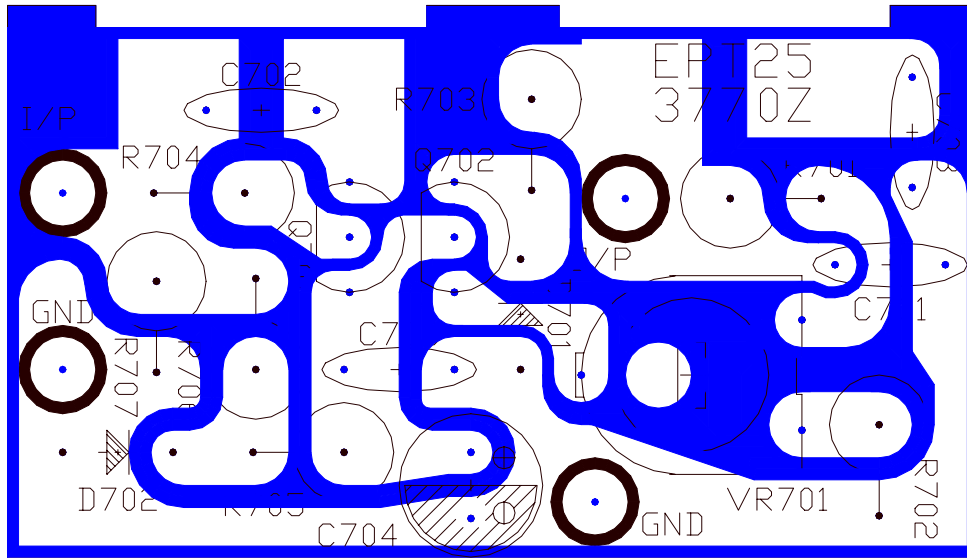
PART LIST:

DX 2547 EAR P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT253790Z	EAR PCB
2	PA,EXT SP	EX06N41034	EAR JACK
3	J2,J3	EX07N48223	PCB CONN/S 2PIN
4	J1	EX07N48350	PCB CONN/S 3PIN
5	JP1	WX01070710	JUMPER WIRE
6	C902,C901	CC0501027L	C/C 0.001uF 50WV

REMARK:

COPPER SIDE (WHITE)



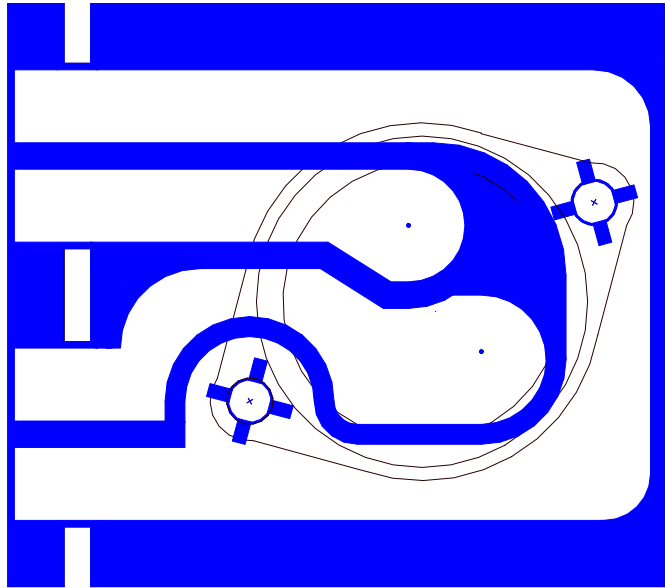
PART LIST:

DX 2547 DC P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT253770Z	DC PCB
2	R707	RCU141034Z	C/F/R 10K Ω 1/4W
3	R704	RCP104704Z	C/F/R 47 Ω 1W
4	R705	RCP101014Z	C/F/R 100 Ω 1W
5	R706	RCP102214Z	C/F/R 220 Ω 1W
6	R702,R703	RCP108214Z	C/F/R Ω 1W
7	R701	RCP101224Z	C/F/R 1.2K Ω 1W
8	C701	CC0501037L	C/C 0.01uF 50WV
9	C703	CC0504737L	C/C .047uF 50WV
10	C702,C708	CC1002237L	C/C .022uF 100WV
11	C704	CE0351077Z	E/C 100uF 35WV
12	Q701	T2SC05395Z	TR 2SD00471K
13	Q702	T2SC05395Z	TR 2SC5395
14	D701	EDZD10569Z	ZENER DIODE
15	D702	EDZD10160Z	ZENER DIODE
16	VR701	RE50100063	S/F/R 500 Ω

REMARK:

COPPER SIDE (WHITE)



PART LIST:

DX 2547 DC P.C.B

ITEM	REFERENCE NUMBER	RANGER PART NUMBER	DESCRIPTION
1		EPT253780Z	DC PCB
2	DC PCB	TZ2N05301Z	TR 2N5301

REMARK:

COPPER SIDE (WHITE)



DX 2547 MAIN PCB

PART LIST DX 2547 MAIN PCB

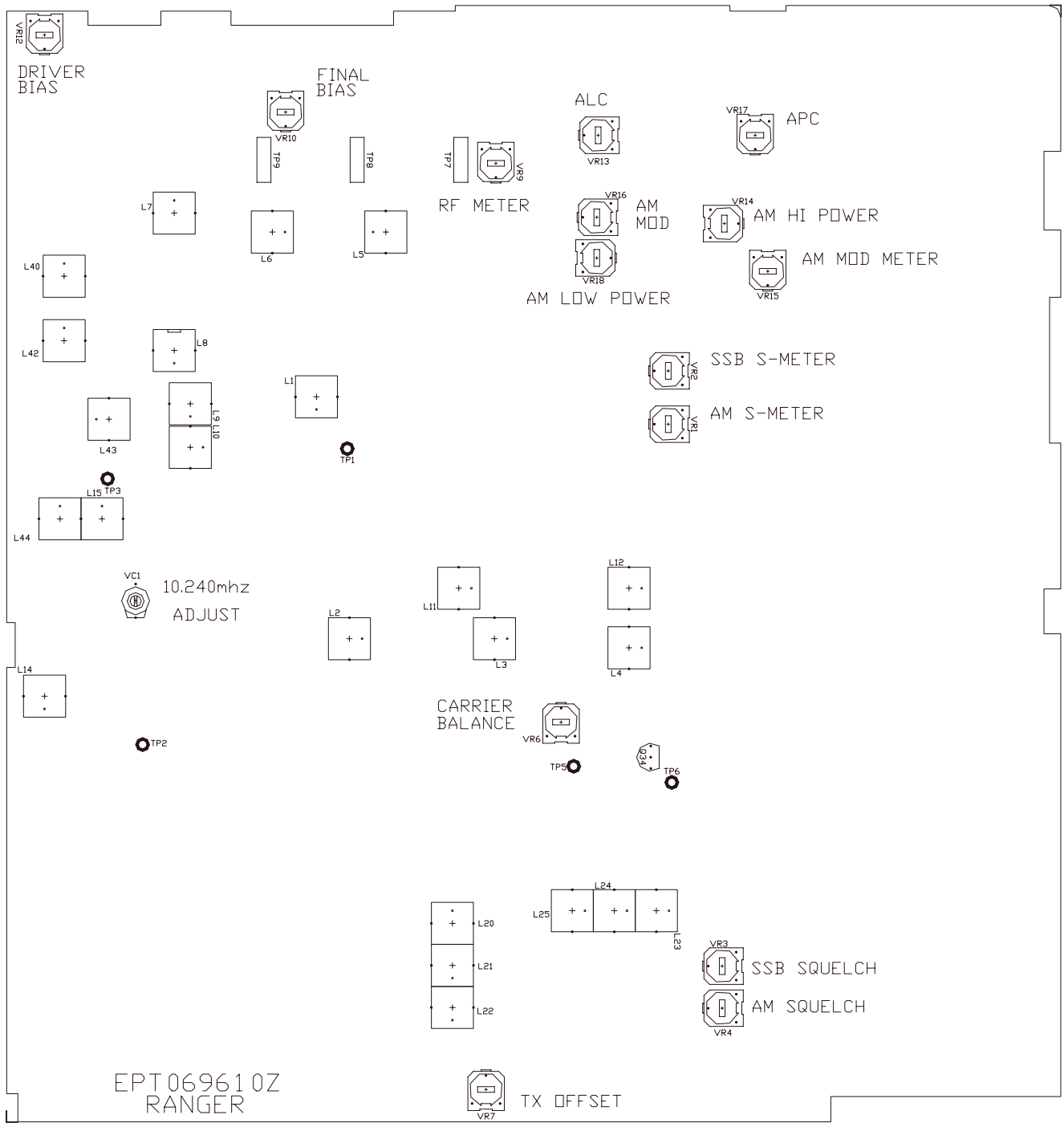
REFERENCE NUMBER	RANGER PART NO.	DESCRIPTION
	EPT069610Z	MAIN PCB
R246	RCP161004Z	10 Ω 1/16W
R267	RCP161504Z	15 Ω 1/16W
R241	RCP162204Z	22 Ω 1/16W
R113,133,213,253,282	RCP164704Z	47 Ω 1/16W
R130,215,220,249	RCP165604Z	56 Ω 1/16W
R11,101	RCP166804Z	68 Ω 1/16W
R5,8,30,33,76,81,95, 169,174,260,263,3	RCP161014Z	100 Ω 1/16W
R32,100,245	RCP161514Z	150 Ω 1/16W
R23	RCP161814Z	180 Ω 1/16W
R140,163,177	RCP162214Z	220 Ω 1/16W
R31,99	RCP162714Z	270 Ω 1/16W
R6,10,16,24,248,254, 300	RCP163314Z	330 Ω 1/16W
R154,155,156,188, 250,268,280,293,299	RCP164714Z	470 Ω 1/16W
R258,266	RCP165614Z	560 Ω 1/16W
R4,50,89,94,209	RCP166814Z	680 Ω 1/16W
R74	RCP168214Z	820 Ω 1/16W
R62,64,67,72,98,115, 116,118,122,123,136, 137,138,160,164,166, 167,179,186,189,205, 206,214,232,240,320, 261,270,271,291,292, 295,303,237,238,D104		1K Ω 1/16W
R88,192	RCP161224Z	1.2K Ω 1/16W
R54,87,97,132,207, 233,247,251,255,273, 79,80	RCP161524Z	1.5K Ω 1/16W
R226	RCP161824Z	1.8K Ω 1/16W
R20,27,71,75,93,114, 134,162,197,259,283, 313	RCP162224Z	2.2K Ω 1/16W
R9,25,28,121,153	RCP162724Z	2.7K Ω 1/16W
R18,22,58,60,66,110, 128,171,191,219,274, 73,252	RCP163324Z	3.3K Ω 1/16W
R52,57	RCP163924Z	3.9K Ω 1/16W
R26,84,131,165,190, 195,196	RCP164724Z	4.7K Ω 1/16W
R83,92,264,265	RCP165624Z	5.6K Ω 1/16W
R14,40,41,70,82,312	RCP166824Z	6.8K Ω 1/16W
R90,275	RCP168224Z	8.2K Ω 1/16W
R1,13,17,56,65,68, 86,159,161,173,175, 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
R91,109,187,208	RCP162234Z	22K Ω 1/16W
R2,309,311	RCP163334Z	33K Ω

R46	RCP163934Z	1/16W 39K Ω 1/16W
R7,29,61,63,96,126, 150,157,185,218,222, 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
R49,55,170,172,176	RCP162744Z	270K Ω 1/16W
R15,111,183	RCP164744Z	470K Ω 1/16W
R48	RCP168244Z	820K Ω 1/16W
R106	RCP161054Z	1M Ω 1/16W
R193	RCP161554Z	1.5M Ω 1/16W
R124	RCP161064Z	10M Ω 1/16W
R244	RCP121514Z	150 Ω 1/2W
R239	RCP121034Z	10K Ω 1/2W
C218	CC0500301L	3PF 50WV
C79	CC0500501L	5PF 50WV
C1,49,108,147	CC0501004L	10PF 50WV
C76	CC0501804L	18PF 50WV
C36	CC0502704L	27PF 50WV
C287	CC0503304L	33PF 50WV
C8	CC0508204L	82PF 50WV
C4,70,284	CC0501015L	100PF 50WV
C137	CC0501515L	150PF 50WV
C31,136	CC0501715L	270PF 50WV
C11,14	CC0503315L	330PF 50WV
C23	CC0505615L	560PF 50WV
C225	CC0500591A	0.5PF 50WV
C52,197	CC0500101A	1PF 50WV
C61,62,90,190	CC0500501A	5PF 50WV
C84,89	CC0501504A	15PF 50WV
C43	CC0501804A	18PF 50WV
C54,55	CC0502204A	22PF 50WV
C119,226,279	CC0503304A	33PF 50WV
C195	CC0503904A	39PF 50WV
C202,224	CC0504704A	47PF 50WV
C88	CC0506804A	68PF 50WV
C150,191	CC0501015A	100PF 50WV
C192,194	CC0501515A	150PF 50WV
C196,295	CC0501815A	180PF 50WV
C139,141	CC0503904D	39PF 50WV
C140	CC0501515D	150PF 50WV
C130	CC0502004G	20PF 50WV
C116,117	CC0506804G	68PF 50WV
C281	CC0501015G	100PF 50WV
C282	CC0501815G	180PF 50WV
C220	CC0502215G	220PF 50WV
C86	CC0502715G	270PF 50WV
C85,201,203	CC0503915G	390PF 50WV
C210,216	CC0504715G	470PF 50WV
C7,47,50,74,95,99, 100,110,118,120,174, 183,244,245,246	CC0501027L	0.001UF 50WV
C81,173,177,193,206, 207,213,215,234,236, 249,250,256,272,292, 302,304,270,211	CC0501047L	0.1UF 50WV
C5,18,20,48,65,68, 72,87,92,96,102,105, 106,143,151,160,233, 240,251,252,253,257, 258,260,261,262,263, 266,217	CC0504737L	0.047UF 50WV
C2,3,6,9,15,16,17, 19,51,57,58,60,63, 66,69,73,109,114, 127,131,133,134,135, 138,142,145,146,161,	CC0501037L	0.01UF 50WV

J6,9,11,20	EX07N48350	P/C/S 3P			COVER
J21,28	EX07N48490	P/C/S 4P	-	MT2537010A	TOP HOUSING
J3,5	EX07N48222	P/C/S 5P	-	MT2537020A	BOTTOM HOUSING
J13	EX07N48331	P/C/S 6P			HOUSING
J14	EX07N48224	P/C/S 7P	-	MT2537030X	FRONT CHASSIS
J33	EX07N48209	P/C/S 10P			CHASSIS
J12	EX07N41227	P/C/S 3P	-	MT2537040X	MAIN CHASSIS
TP2,3,5,6	EX07N48612	P/C/S 1P			CHASSIS
TP7,8,9	XZZZ90006Z	PCB STOPPER	-	MT2537060X	SIDE PLATE
J6-25470Z,J9-254740Z	EX07N48920	W/C/H 3P	-	MT2537070A	REAR PANEL (B)
J13-70Z	EX07N49058	W/C/H 6P			HEAT SINK
J18-90A	EX07N48850	W/C/H 2P	REAR PANEL	MT2537080A	HEAT SINK COVER
J11-4740Z	EX07N48929	W/C/H 3P	REAR PANEL	MT2537110A	HEAT SINK COVER
J10-20Z	EX07N48917	W/C/H 2P			SET CHASSIS
J17-254780Z	EX07N49030	W/C/H 2P	MAIN PCB	MT3001021X	MODEL PLATE
J5-4750Z	EX07N49059	W/C/H 5P	-	BT2537010B	FUNCTION PLATE
J33-30A	EX07N49057	W/C/H 10P		BT2537020A	PLATE
J26-254740Z	EX07N49094	W/C/H 2P			FCC PLATE
J3-80Z-METER	EX07N49096	W/C/H 3P	-	BT2537030B	
J20-4740Z	EX07N49097	W/C/H 3P			
J25-4740Z	EX07N49098	W/C/H 2P	DISPLAY-COUNTER PCB	GZZZ50182Z	HEX SPACER
J12-4740Z	EX07N49099	W/C/H 3P	REAR PANEL	QM5500030A	EARPHONE COVER
J4-70Z	EX07N49100	W/C/H 2P			LAMP STOPPER
J14-90Z-4740Z	EX07N49103	W/C/H 7P	-	QT0SSB020A	SH. CLOTH
60Z-MAIN	EX07N49104	W/C/H 5P			SH. CLOTH
4750Z-SSB30A	EX07N49101	W/C/H 4P	SPEAKER	LZZZ60078Z	SH. CLOTH
4750Z-4740Z	EX07N48918	W/C/H 2P	TOP & BOTTOM HOUSING	LZZZ60079A	SH. CLOTH
4790Z-4740Z	EX07N48914	W/C/H 3P	TOP HOUSING	LZZZ60080Z	SH. CLOTH
4790Z-4740Z	EX07N49077	W/C/H 4P	BOTTOM HOUSING &	LZZZ60081Z	SH. CLOTH
4740Z-4770Z	EX07N48952	W/C/H 3P	REAR PANEL		
253790A-20Z	EX07N49106	W/C/H 3P	EAR JACK PCB	XZZZ90372Z	SH. CLOTH
253790A-PHONE	EX07N48964	W/C/H 2P	METER	XZZZ90053Z	FOAM
J22-EPT900040Z	EX07N48921	W/C/H 2P	ANT	XZZZ90002Z	SOLDER PLATE
J21-EPT900040Z-4740Z	EX07N49112	W/C/H 7P			WASHER
254740Z-MIC	WL0405005Z	LEAD WIRE	EARPHONE	XZZZ90057Z	FOAM
FUSE-AC I/P,AC I/P	WH0506005Z	LEAD WIRE	ANT PCB	XZZZ90004Z	SPONGE
DC I/P	WH0008005Z	LEAD WIRE	COUNTER PCB	XZZZ90367A	INSULATING RING
RECTIFIERS-CAP	WH0010005Z	LEAD WIRE	5301Z	XZZZ90072Z	INSULATE WASHER
253780Z	WH0913005Z	LEAD WIRE			NUT WITH WASHER
RECTIFIERS-CAP, 253780Z, POWER (DC/AC)	WH0213005Z	LEAD WIRE	EARPHONE	JW306011EY	LOSK NUT
253780Z-CAP	WH0935005Z	LEAD WIRE	ANT, SP	JN263035ZS	NUT
253780Z-CAP	WH0240005Z	LEAD WIRE			NUT
POWER SW-POWER	WH0049005Z	LEAD WIRE	PT	JN284007ZN	NUT
SW (DC/AC)			TR	JN242012ZS	NUT
POWER SW	WH0251005Z	LEAD WIRE	TR, 20Z PCB, 40Z PCB	JN243024ZS	NUT
SP-PHONES	WJ0930011L	LEAD WIRE	121Z	JS033018MN	SET SCREW
			E/C, FRONT PANEL	JS013008TH	SCREW
			FRONT PANEL, MAIN PCB	JS033006MN	SET SCREW
			AV/DC, SWITCH	JS052004MN	SET SCREW
			TR	JS052012MN	SET SCREW
			TOP, BOTTOM, HEAT SINK, SET CHASSIS	JS053006MN	SET SCREW
			ANT JACK	JS053006TN	SET SCREW
			ANT JACK, AC JACK, DC JACK	JS053008MN	SET SCREW
			POWER TR, PT	JS053012MN	SET SCREW
			7222A	JS014016MS	SET SCREW
			SW 50X, MAIN CHASSIS	JS013003MV	SET SCREW
			754Y, 1969C	JS013006SN	SET SCREW
				JS052010MN	SET SCREW

DX 2547 MISC. PARTS

REFERENCE NUMBER	RANGER PART NO.	DESCRIPTION			
-	PT2537010A	FRONT PANEL			
-	PT2537020C	DISPLAY WINDOW			
-	PT2537030A	CHANNEL KNOB			
-	PT2537040A	VR KNOB			
-	PT2537050A	INNER KNOB			
-	PT2537060A	OUTER KNOB			
POWER ANL	PT2537070A	PUSH BUTTON			
	PT2537080D	PUSH BUTTON (4)			
NB	PT2537080E	PUSH BUTTON (4)			
GNF	PT2537080F	PUSH BUTTON (4)			
CLARIFIER	PT2537080G	PUSH BUTTON (4)			
RB PA	PT2537090A	PUSH BUTTON (2)			
RED 1.0t	PT2537130A	MASK WINDOW			
KNOB	PT3600090A	KNOB WASHER			
5301Z	PTDX55050A	DISPLAY BAR			
	PA0100010A	MICA INSULAOR			
	BT2537050A	MODE PLATE			
	PT0SSB070A	METER BACK			



Main PCB Adjustment Location

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.**