

GX1500V



**25 Watt, VHF
Mobile
Transceiver**

CONTAINS:

Specifications
FCC Information
Installation Procedure
Operation
Theory of Operation
Performance Test
Alignment Procedure
Complete Illustrations
Parts Lists

SERVICE MANUAL



GX1500V

Fifteen Watt VHF/FM

Mobile Transceiver

This manual is intended for use by qualified technicians and includes all necessary information pertaining to the GX1500V operation, installation, circuit design, and maintenance. Changes which occur after the printed date will be incorporated through Service Manual Inserts or in a later Service Manual printing.

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SPECIFICATIONS

Performance specifications are nominal unless otherwise indicated. Specifications are subject to change without notice.

GENERAL

Frequency Range	150 to 174 MHz
Number of Channels	4
Input Voltage	13.8 VDC
Current Drain	
Standby	500 mA
Transmit	6 A
Dimensions	
Height	50 mm
Width	142 mm
Depth	190 mm
Weight	2 lb. 14 oz.
Channel Spacing	30 Khz
Color	Black
Compliance	FCC Parts 22 and 90
FCC Type Number	APV9T20889

RECEIVER

(Receiver measurements are made in accordance with EIA Standards RS 204C.)

Sensitivity:

12dB SINAD	.045 μ V max.
20 dB Quieting	0.5 μ V max.

Squelch Sensitivity

Threshold	.025 μ V max.
Modulation Bandwidth	+/-5.5 Khz
Selectivity	65 dB
Spurious and Image Rejection	60 dB
Intermodulation Rejection	60 dB
Audio Distortion	5%
Frequency Stability	+/-0.0005% or 5PPM (-30 to +60 degrees C)
Channel Spacing	30 Khz

TRANSMITTER

(Transmitter measurements are made in accordance with EIA Standards RS 152B.)

RF Power Output	25 Watts
Spurious and Harmonic Emissions	60 dB
Modulation	16K0F3E
Audio Distortion	5%
Frequency Stability	+/-0.0005% or 5PPM (-30 to +60 degrees C)
Channel Spacing	30 Khz

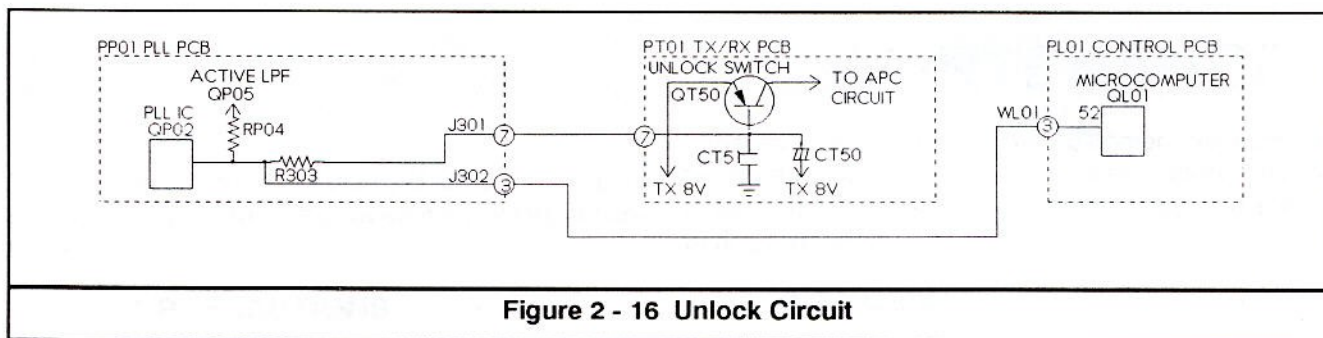
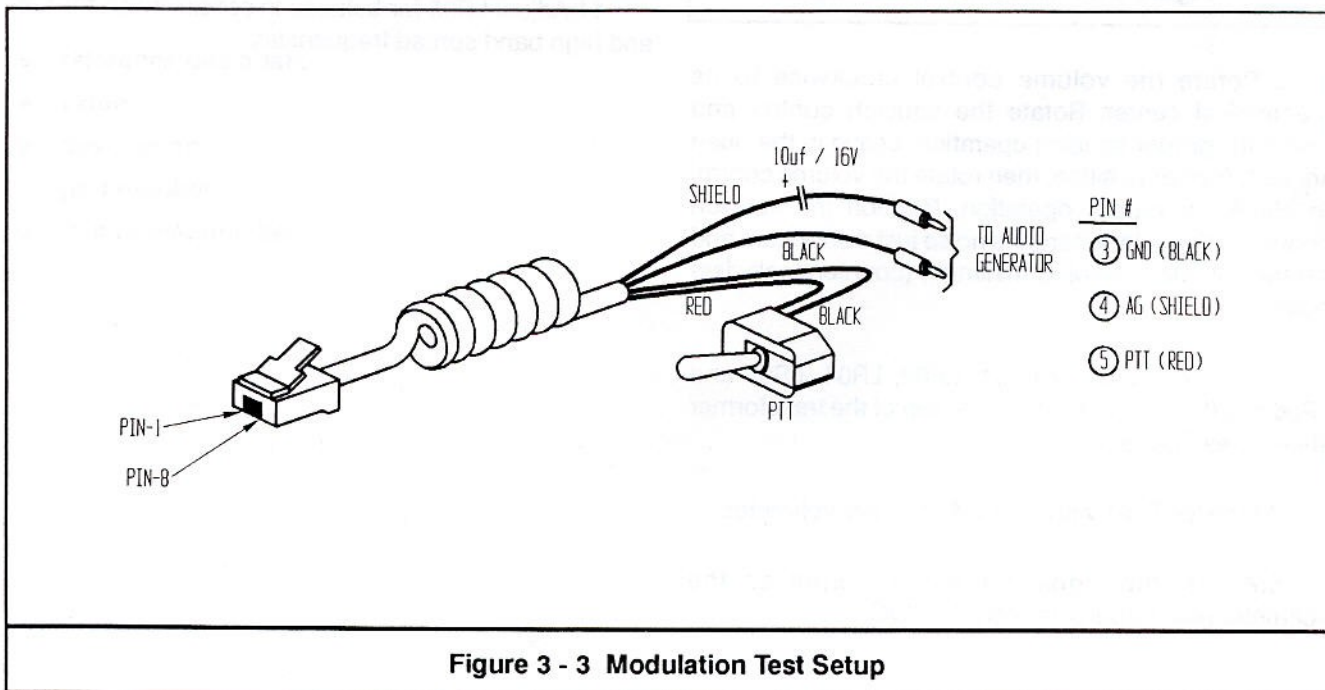
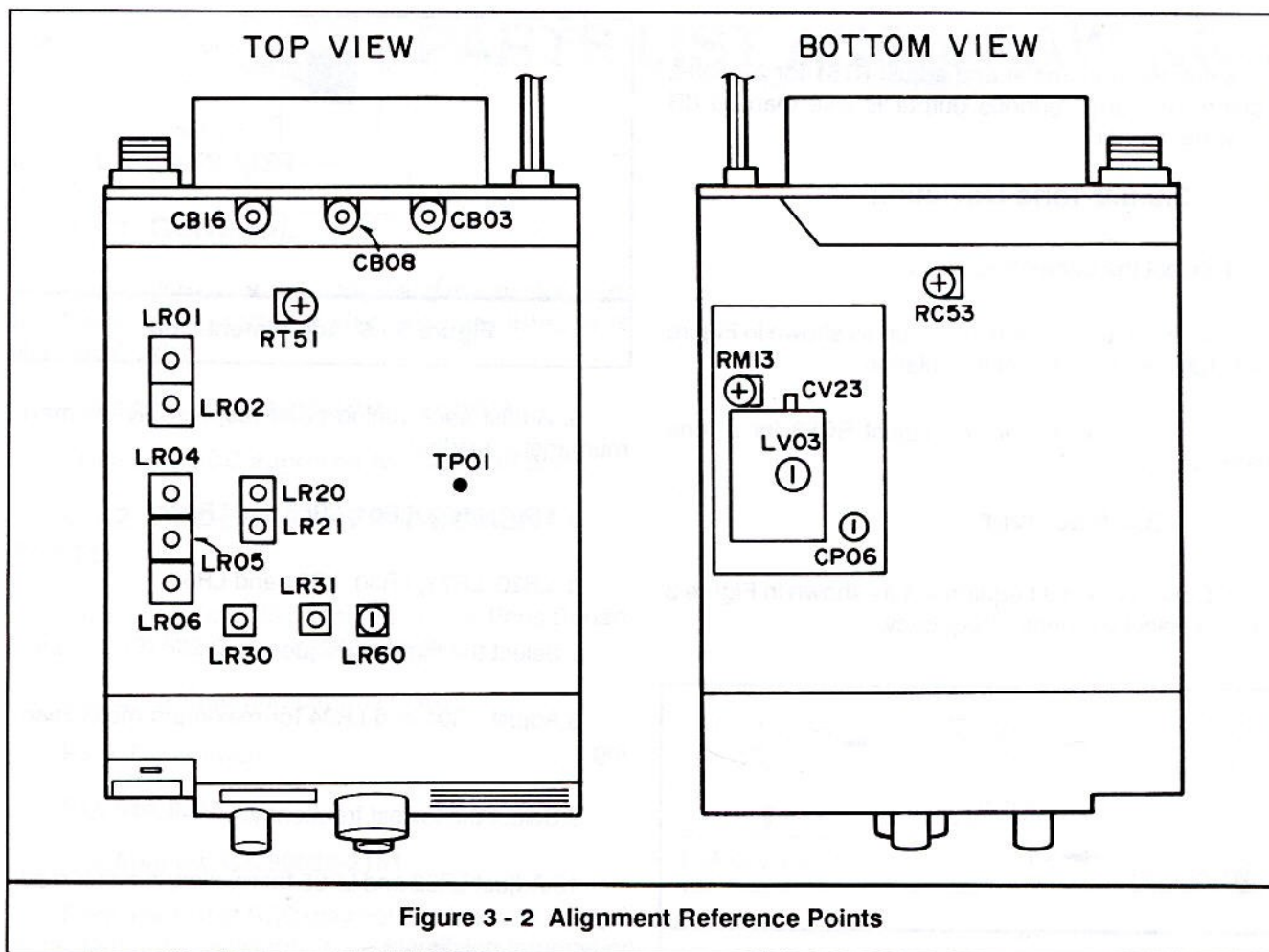


Figure 2 - 16 Unlock Circuit



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PARTS LIST AND DRAWINGS

4.1 PARTS LIST

4.1.1 GENERAL

Information on most electrical and mechanical parts is included in the parts list. The parts are listed in alphabetical order.

- Use only SCC approved accessories
- Use only SCC approved replacement parts

4.1.2 ORDERING REPLACEMENT PARTS

Parts orders should be referred to the Parts Department at (213) 532-5300 ext. 248 or write:

Standard Communications Corp.

Parts Department

P.O. Box 92151

Los Angeles, CA 90009-2151

Please note that SCC may not be able to fill replacement parts orders without such identifying information as:

- reference designator
- value
- description
- part number
- unit model number

REF DES	MODEL EFF	SERIAL NO EFF	DESCRIPTION	PART NUMBER
198B			HEAT SINK	431C267010
202B			P.H. TAP SCREW	51302610B0
203B			B.H. TAP. SCREW	51282606B0
218B			GASKET, REAR CASE (BLACK)	431C277010
222B			CASE, SLEEVE (BLACK)	420C064100
226B			BUSHING, (BLACK)	4618259150
232B			F. WASHER SCREW	51480310E9

INSTALLATION KIT

MISCELLANEOUS MECHANICAL

001V			ASSY., MICROPHONE MP872	MP11001190
024S			BRACKET, MOUNTING (BLACK)	420C160100
026S			WASHER, MOUNTING BRACKET	420C056040
028S			KNOB, MOUNTING (BLACK)	414C154040
032S			H. HEAD BOLT, P	52030520B9
036S			FLAT WASHER, P.	54020501E0
040S			SPRING WASHER	54040502N0
044S			HEXAGON NUT	53110503E9
056S			SPACER	414C118010

PACKING MATERIALS

MISCELLANEOUS MECHANICAL

001S			CUSHION PACKING	423C809010
004S			REINFORCING, CUSHION LID	423C807010
008S			SLEEVE, CARTON GX1500V	431C804010

4.2 DRAWINGS

The drawings in this section show the electrical and mechanical parts locations and interconnections of the GX1500V. The values of most electrical parts are indicated on the schematic diagram.



**Standard
Communications**

Standard Communications Corp.
P.O. Box 92151
Los Angeles, CA 90009-2151
Telephone 213/532-5300

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