

# VX-450 Series

## VHF Band Service Manual

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## Introduction

This manual provides the technical information necessary for servicing the VX-450 Series Transceiver.

Servicing this equipment requires expertise in handling surface-mount chip components. Attempts by non-qualified persons to service this equipment may result in permanent damage not covered by the warranty, and may be illegal in some countries.

Two PCB layout diagrams are provided for each double-sided board in this transceiver. Each side of the board is referred to by the type of the majority of components installed on that side ("Side A" or "Side B"). In most cases one side has only chip components (surface-mount devices), and the other has either a mixture of both chip and leaded components (trimmers, coils, electrolytic capacitors, ICs, etc.), or leaded components only.

As described in the pages to follow, the advanced microprocessor design of the VX-450 Series Transceiver allows a complete alignment of this transceiver to be performed without opening the case of the radio; all adjustments can be performed from the front panel, using the "Alignment Mode" menu.

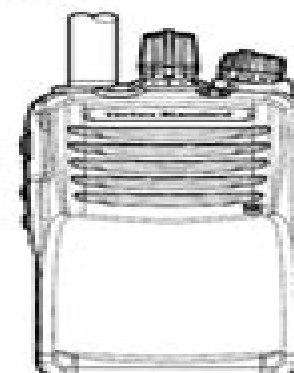
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16 key Type



4 key Type



Non-key Type

### Important Note

This transceiver was assembled using Pb (lead) free solder, based on the RoHS specification.

Only lead-free solder (Alloy Composition: Sn-3.0Ag-0.5Cu) should be used for repairs performed on this apparatus. The solder stated above utilizes the alloy composition required for compliance with the lead-free specification, and any solder with the above alloy composition may be used.

## Contents

Specifications .....	2
Exploded View & Miscellaneous Parts .....	4
16 key & 4 key Type .....	4
Non-key Type .....	5
Parts List .....	6
Block Diagram .....	7
16 key & 4 key Type .....	7
Non-key Type .....	11

Circuit Description .....	15
Alignment .....	18
Board Units (Schematics & Layouts)	
MAIN Unit (16 key & 4 key Type) .....	32
MAIN Unit (Non-key Type) .....	41
Display Unit (16 key & 4 key Type) .....	47

# Manual Vertex Vx 180

**Mark Steyvers**



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## **Table of Contents Manual Vertex Vx 180**

1. Understanding the eBook Manual Vertex Vx 180
  - The Rise of Digital Reading Manual Vertex Vx 180
  - Advantages of eBooks Over Traditional Books
2. Identifying Manual Vertex Vx 180
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Manual Vertex Vx 180
  - User-Friendly Interface
4. Exploring eBook Recommendations from Manual Vertex Vx 180
  - Personalized Recommendations
  - Manual Vertex Vx 180 User Reviews and Ratings
  - Manual Vertex Vx 180 and Bestseller Lists
5. Accessing Manual Vertex Vx 180 Free and Paid eBooks
  - Manual Vertex Vx 180 Public Domain eBooks
  - Manual Vertex Vx 180 eBook Subscription Services
  - Manual Vertex Vx 180 Budget-Friendly Options

6. Navigating Manual Vertex Vx 180 eBook Formats
  - ePub, PDF, MOBI, and More
  - Manual Vertex Vx 180 Compatibility with Devices
  - Manual Vertex Vx 180 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Manual Vertex Vx 180
  - Highlighting and Note-Taking Manual Vertex Vx 180
  - Interactive Elements Manual Vertex Vx 180
8. Staying Engaged with Manual Vertex Vx 180
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Manual Vertex Vx 180
9. Balancing eBooks and Physical Books Manual Vertex Vx 180
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Manual Vertex Vx 180
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Manual Vertex Vx 180
  - Setting Reading Goals Manual Vertex Vx 180
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Manual Vertex Vx 180
  - Fact-Checking eBook Content of Manual Vertex Vx 180
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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