

# 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.

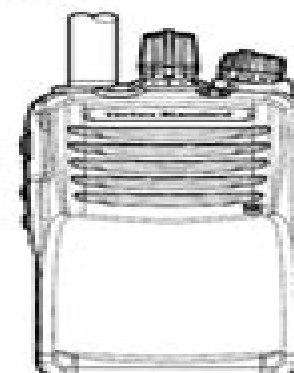
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16 key Type



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

# Vx 414 Service Manual

**Michael Brown**



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## Table of Contents Vx 414 Service Manual

1. Understanding the eBook Vx 414 Service Manual
  - The Rise of Digital Reading Vx 414 Service Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Vx 414 Service Manual
  - 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 Vx 414 Service Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Vx 414 Service Manual
  - Personalized Recommendations
  - Vx 414 Service Manual User Reviews and Ratings
  - Vx 414 Service Manual and Bestseller Lists
5. Accessing Vx 414 Service Manual Free and Paid eBooks
  - Vx 414 Service Manual Public Domain eBooks
  - Vx 414 Service Manual eBook Subscription Services
  - Vx 414 Service Manual Budget-Friendly Options
6. Navigating Vx 414 Service Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Vx 414 Service Manual Compatibility with Devices
  - Vx 414 Service Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Vx 414 Service Manual
  - Highlighting and Note-Taking Vx 414 Service Manual
  - Interactive Elements Vx 414 Service Manual
8. Staying Engaged with Vx 414 Service Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Vx 414 Service Manual
- 9. Balancing eBooks and Physical Books Vx 414 Service Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Vx 414 Service Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Vx 414 Service Manual
  - Setting Reading Goals Vx 414 Service Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Vx 414 Service Manual
  - Fact-Checking eBook Content of Vx 414 Service Manual
  - 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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