

# 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.

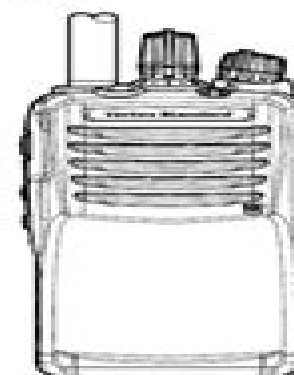
While we believe the information in this manual to be correct, VERTEX STANDARD assumes no liability for damage that may occur as a result of typographical or other errors that may be present. Your cooperation in pointing out any inconsistencies in the technical information would be appreciated.



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.

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# Vertex Vx 2015u Manual

**Neil Shear**



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sensing domains are defined by graphs resulted in graph data processing as an emerging field in signal processing Although signal processing techniques for the analysis of time varying signals are well established the corresponding graph signal processing equivalent approaches are still in their infancy This book presents novel approaches to analyze vertex varying graph signals The vertex frequency analysis methods use the Laplacian or adjacency matrix to establish connections between vertex and spectral frequency domain in order to analyze local signal behavior where edge connections are used for graph signal localization The book applies combined concepts from time frequency and wavelet analyses of classical signal processing to the analysis of graph signals Covering analytical tools for vertex varying applications this book is of interest to researchers and practitioners in engineering science neuroscience genome processing just to name a few It is also a valuable resource for postgraduate students and researchers looking to expand their knowledge of the vertex frequency analysis theory and its applications The book consists of 15 chapters contributed by 41 leading researches in the field **MEDINFO**

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