

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 500 User Guide

R Bogdan



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Guide for the selection of communication equipment for emergency first responders , *Guide for the Selection of Communication Equipment for Emergency First Responders* ,2002 *Guide for the Selection of Communication Equipment for Emergency First Responders* National Institute of Justice (U.S.). Office of Science and Technology,2002

Security Owner's Stock Guide Standard and Poor's Corporation,2001 Monthly statistical summary of 5100 stocks
CQ ,2003 **Hi-fi News** ,2006 **Antiviral Drugs** Wieslaw M. Kazmierski,2011-08-23 This book focuses on new small molecule approaches to combat viral infections The chapters describe the discovery and development from bench through the clinic of relatively recently approved antiviral drugs and compounds in advanced clinical development Organized by a virus such as HIV HCV RSV influenza HBV and CMV and written by top academic and industrial authorities in the field the book provides a unique opportunity to study understand and apply discovery and development principles and learning without the need for an individual to research analyze and synthesize all immense sourcing references Topics showcase challenges and solutions of issues encountered offering tremendous experience accumulated over many years of research that will be particularly useful to basic and bench scientists as well as clinicians as they continue discovering and developing new drugs and therapies *Emergency Medical Services* ,1994 **Field Manual for Engineers** Philetus Harvey Philbrick,1901 *Amateur Radio* ,1998 **World Radio TV Handbook** ,1997 **MacUser** ,1997 **Popular Mechanics** ,1976-08 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **73 Amateur Radio Today** ,1999 **PC Magazine** ,1996 *The Value Line Investment Survey* ,2007 **Clinical Trials** Tom Brody,2016-02-19 Clinical Trials Second Edition offers those engaged in clinical trial design a valuable and practical guide This book takes an integrated approach to incorporate biomedical science laboratory data of human study endpoint specification legal and regulatory aspects and much more with the fundamentals of clinical trial design It provides an overview of the design options along with the specific details of trial design and offers guidance on how to make appropriate choices Full of numerous examples and now containing actual decisions from FDA reviewers to better inform trial design the 2nd edition of Clinical Trials is a must have resource for early and mid career researchers and clinicians who design and conduct clinical trials Contains new and fully revised material on key topics such as biostatistics biomarkers orphan drugs biosimilars drug regulations in Europe drug safety regulatory approval and more Extensively covers the study schema and related features of study design Incorporates laboratory data from studies on human patients to provide a concrete tool for understanding the concepts in the design and conduct of clinical trials Includes decisions made by FDA reviewers when granting approval of a drug as real world learning examples for readers **Neutrino** ,2003 *Guide des coléoptères d'Europe* Gaëtan Du

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