

# Rack Mount Repeater

## VXR-9000 (VHF)

### Service Manual

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## Introduction

This manual provides the technical information necessary for servicing the **VXR-9000** Rack Mount Repeater.

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 **VXR-9000** allows a complete alignment of this transceiver to be performed without opening the case of the radio; all adjustments can be performed from the personal computer, using with the Vertex Standard VPL-1 Programming Cable and CE60 Software.

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.

### Important Note

After Lot. 31 of 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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#### Board Units (Schematics, Layouts & Parts)

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# Adac Vertex Operators Manual

**JL Elias**



## **Adac Vertex Operators Manual:**

*Commerce Business Daily*, 2000-06      *Moody's OTC Industrial News Reports*, 1993-06      *Operator's Manual : Truck, Cargo; 1-1/4 Ton, 4x4, M880 (2320-00-579-8942) ... Truck, Ambulance; 1-1/4 Ton, 4/2, M893 (2310-00-125-5679).*, 1982  
*Operator's Manual*, 1990      *Manual for the Wheeled Vehicle Operator* Department of the Army, 2008-12-31 This TC applies to the Active Army the Army National Guard the United States Army Reserve and the United States Air Force Active and Reserve components The term Driver is being replaced with the term Operator throughout this publication The term driver implies that all the Soldier must do is drive the vehicle Today s military operator does considerably more than just drive The term operator reflects a requirement to master every aspect of the vehicle s capabilities and limitations to include all current sub components such as technologically advanced communications navigation and intercom systems onboard material handling cranes self recovery winches integrated night vision devices weapons support systems onboard electronic diagnostic systems and load responsibility Instructions in this TC will help the wheeled vehicle operator maintain a high degree of driving efficiency This TC does not restrict its contents to any one particular vehicle It is a guide to normal everyday operations and to driving under difficult conditions When more information is needed for a specific vehicle check the technical manual written for that vehicle      **Operator's Manual for State Vehicles and Equipment** Alaska. Department of Transportation and Public Facilities. State Equipment Fleet, 2004

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