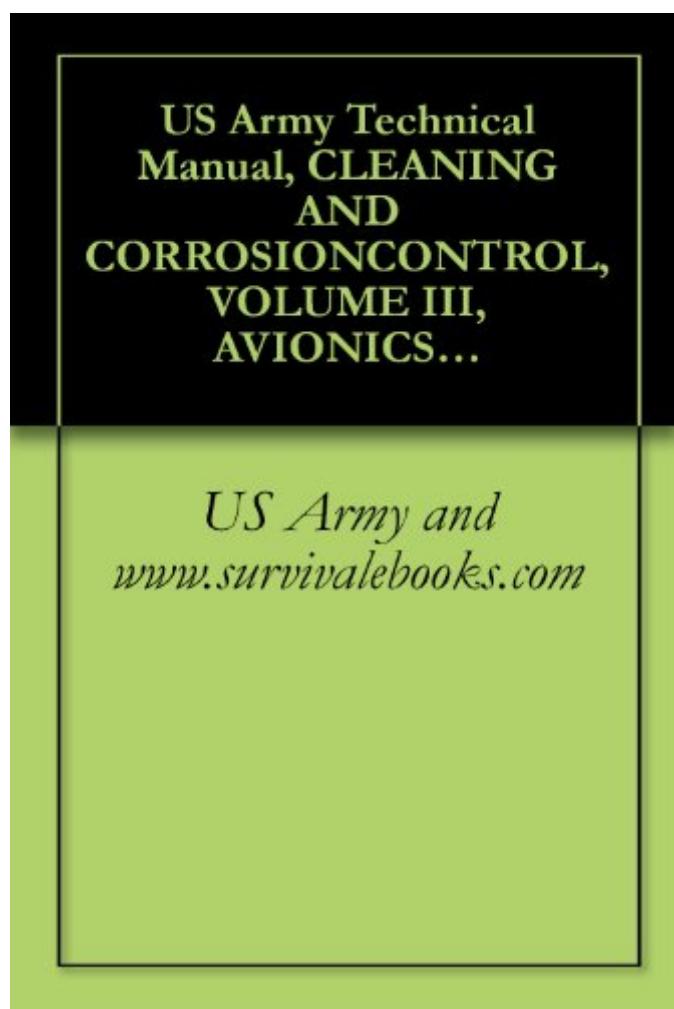


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# **US Army Technical Manual, CLEANING AND CORROSIONCONTROL, VOLUME III, AVIONICS AND ELECTRONICS, TM 1-1500-344-23-3, 2005**





## Synopsis

US Army Technical Manual, CLEANING AND CORROSION CONTROL, VOLUME III, AVIONICS AND ELECTRONICS, TM 1-1500-344-23-3, 2005

1-1. GENERAL.

1-1.1. Today military avionic systems assume a significant share of the responsibility for mission completion, performance capability, and overall system safety. The role of avionics includes mission essential equipment, flight critical equipment, and aircraft hardware. For example, navigation, communications, electronic warfare, weapon management, flight/engine controls and displays, and wiring are all considered avionics. Electronics and electrical power systems are also considered avionics. The reliability of these complex systems in any environment is critical for aircraft flight and mission essential functions.

NOTE In this manual, use of the term "avionic systems" shall refer to any device that uses electrical power. The term "avionic technician" shall include the aviation electrician, aviation electronic technician, or any personnel authorized to perform maintenance on avionic systems.

1-1.2. Corrosion is a major cause of avionic equipment failures, particularly while installed in military aircraft. In many cases, even minute amounts of corrosion can cause intermittent malfunction or complete failure of the equipment. Past experience shows that in order to obtain certain electrical characteristics, for example, low electromagnetic interference (EMI), a compromise in the design selection of materials might be needed (for example, the use of conductive adhesive). Sometimes such compromises can lead to corrosion problems that are aggravated by exposure to varying environmental conditions (for example, EMI corrosion). Avionic equipment is routinely exposed to varying environmental conditions. These conditions include changing temperatures and pressures, varying humidity, dust, dirt, and industrial pollutants in the atmosphere that often initiate corrosion.

1-1.3. The types of corrosion that occur on avionic equipment are similar to those found on airframe structures. The difference between avionic and airframe corrosion is that small amounts of corrosion in avionic equipment can cause intermittent malfunction or complete failure, while it may not impact airframe structures.

1-2. PURPOSE. The purpose of this manual is to provide information on materials and procedures to prevent, control, and repair corrosion damage to avionics on land or at sea.

1-3. SCOPE. The material in this manual contains basic avionic corrosion prevention and corrective maintenance information to be used at the Organizational/Unit and Intermediate levels.

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