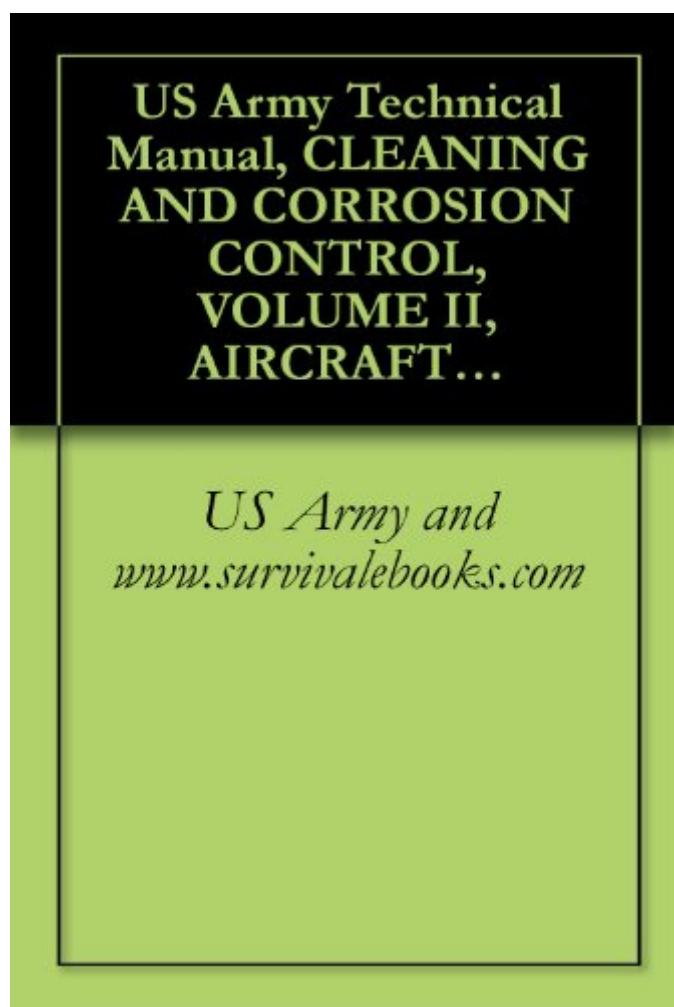


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# US Army Technical Manual, CLEANING AND CORROSION CONTROL, VOLUME II, AIRCRAFT, TM 1-1500-344-23-2, 2005



## **Synopsis**

US Army Technical Manual, CLEANING AND CORROSION CONTROL, VOLUME II, AIRCRAFT, TM 1-1500-344-23-2, 2005 1-1. GENERAL. Military aviation is recognized for its unique and complex set of challenges, including maritime patrol operation requirements and powerful electromagnetic operating fields. The highly constrained maintenance infrastructure available to deployed units to combat corrosion can limit the effectiveness of prevention and corrosion control. The materials used to construct military aircraft also contribute to corrosion. High strength steels used in landing gear and launch/ recovery systems are sensitive to pitting and stress corrosion cracking, which can lead to catastrophic failure. Aluminum alloys susceptible to exfoliation and intergranular corrosion are commonly found on wing skin and other load carrying structures. Even magnesium, one of the most corrosion sensitive metals known, is still used in canopy frames and gear boxes. Added to this is the ever increasing age of military aircraft and the need to comply with stricter environmental regulations. All of these factors combine to make corrosion prevention and control a significant factor in the safe and economic operation of military aircraft. 1-2. PURPOSE. The purpose of this manual is to provide information on materials and procedures to prevent, control, and repair corrosion damage to aircraft on land or at sea. 1-3. SCOPE. The material in this manual contains basic corrosion prevention and corrective maintenance information to be used at Organizational, Intermediate, and Depot levels.

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