

INTRODUCTION

INTRODUCTION. The data included in this repair manual has been developed for personnel faced with the problem of maintaining the airworthiness of damaged airframes of the L-17 Series Airplanes. It is intended that this manual will facilitate the restoration of the airplane to a safe airworthy condition with a minimum of elapsed time and a minimum of replacement parts. The manual covers the major structural components of the airplane and includes instructions for determining the extent of damage and methods of repair.

COMPOSITION OF MANUAL. The composition of this repair manual is as follows: Section I - General Instructions other than those found in AN01-1A-1 "General Manual for Structural Repair"; Section II - Wing Group; Section III - Tail Group; Section IV - Body Group; Section V - Landing Gear; Section VI - Engine Section; Section VII - Fabric Repair (Not applicable to the airplane); Section VIII - Extrusion Chart, Equivalents for Extrusions and Formed Sheet Sections; and Section IX - Table of Heat Treated

Fittings. Appendix I consists of a list of typical repair materials; Appendix II consists of sketches of typical repairs.

This repair manual is supplemented by AN01-1A-1 "General Manual for Structural Repair" which contains information on general working practice; materials and identification; heat treatment of materials; information on rivets, bolts, screws, nuts, and fasteners; cable splicing; structural tubing repairs; repair of transparent plastics, anti-corrosion precaution; replacement of flexible hose, fittings and spotwelded structure.

HOW TO USE MANUAL. Identify the damaged structural component of the airplane and from the table shown on Figure 1-1 determine the section of the manual in which the component is covered. The similar structural components are grouped together for convenience; that is, all of the wing stringers repairs are treated together in one group, as are the skin repairs, rib repairs, and spar repairs. The table of contents may be used to find special information.