

Chapter 4

Aircraft Metal Structural Repair

Aircraft Metal Structural Repair

The satisfactory performance of an aircraft requires continuous maintenance of aircraft structural integrity. It is important that metal structural repairs be made according to the best available techniques because improper repair techniques can pose an immediate or potential danger. The reliability of an aircraft depends on the quality of the design, as well as the workmanship used in making the repairs. The design of an aircraft metal structural repair is complicated by the requirement that an aircraft be as light as possible. If weight were not a critical factor, repairs could be made with a large margin of safety. In actual practice, repairs must be strong enough to carry all of the loads with the required factor of safety, but they must not have too much extra strength. For example, a joint that is too weak cannot be tolerated, but a joint that is too strong can create stress risers that may cause cracks in other locations.

As discussed in Chapter 3, Aircraft Fabric Covering, sheet metal aircraft construction dominates modern aviation. Generally, sheet metal made of aluminum alloys is used in airframe sections that serve as both the structure and outer aircraft covering, with the metal parts joined with rivets or other types of fasteners. Sheet metal is used extensively in many types of aircraft from airliners to single engine airplanes, but it may also appear as part of a composite airplane, such as in an instrument panel. Sheet metal is obtained by rolling metal into flat sheets of various thicknesses ranging from thin (sheet) to plate (pieces thicker than 6 mm or 0.25 inch). The thickness of sheet metal, called gauge, ranges from 8 to 30 with the higher gauge denoting thinner metal. Sheet metal can be cut and bent into a variety of shapes.



Aircraft Sheet Metal Repair Guide

L Cohen

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Resources in Education ,1975 **Technical Publications for Army Air Forces Field Technical Libraries** ,1943
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Whispering the Techniques of Language: An Psychological Quest through **Aircraft Sheet Metal Repair Guide**

In a digitally-driven world wherever displays reign supreme and immediate connection drowns out the subtleties of language, the profound techniques and psychological subtleties concealed within words frequently get unheard. Yet, set within the pages of **Aircraft Sheet Metal Repair Guide** a fascinating fictional treasure blinking with natural emotions, lies an exceptional journey waiting to be undertaken. Composed by a skilled wordsmith, this enchanting opus encourages visitors on an introspective trip, gently unraveling the veiled truths and profound influence resonating within the very fabric of each word. Within the mental depths with this poignant review, we shall embark upon a genuine exploration of the book's core themes, dissect its captivating writing type, and succumb to the strong resonance it evokes deep within the recesses of readers' hearts.

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