

AUGUST/SEPT



Dakota Territory Air Museum's P-47 Update by Chuck Cravens





Two sections of the complicated duct-work in the P-47 await installation.

These ducts will mount on the top forward face of the intercooler and route cooled, compressed air forward to the carburetor.



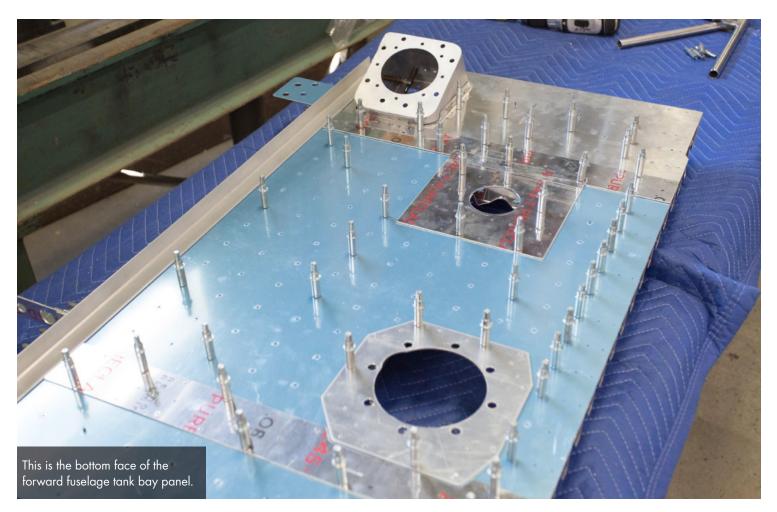
Update

During late July and early September restoration emphasis in the AirCorps shop was centered on the intercooler system and its complicated ducting, along with continuing the assembly of the upper fuselage structure. During the month, we were contacted about a possible lead on the squadron assignment. While it remains tentative, if more information can be confirmed I will write about it in subsequent updates.

Each added component, frame, and skin section drives home the fact that the P-47 was the largest single engined fighter of WWII. The size and shape of its massive fuselage was heavily influenced by components of the General Electric super/turbocharging system, the Harrison intercooler, and all the ducting that was necessary to make them both function efficiently.

Fuselage Structure

The rollover structure and the structural frame for the fuselage forward of the cockpit were just some of the projects undertaken this month as the upper fuselage goes together.



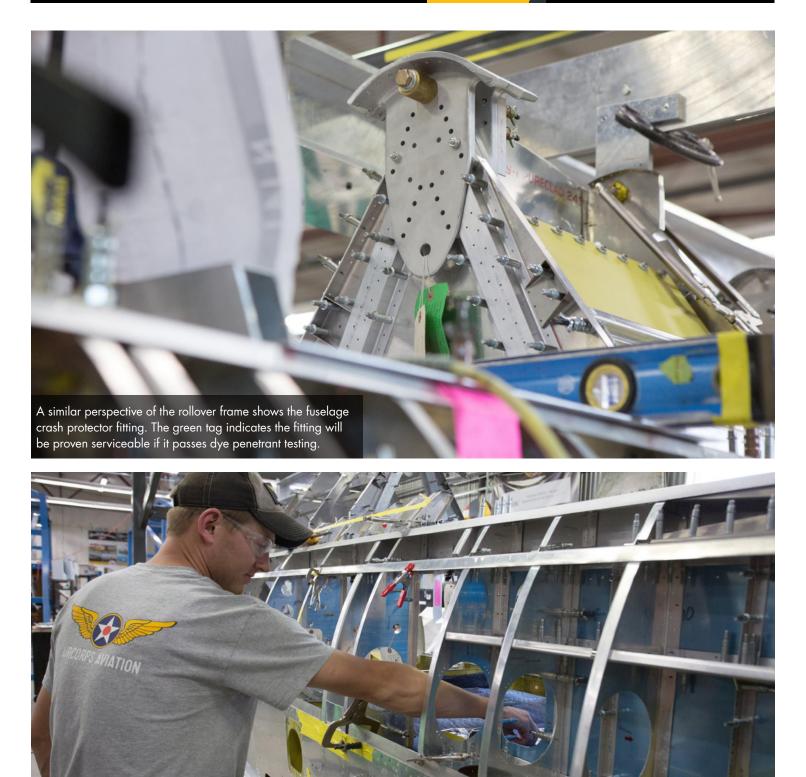






Aaron works in the cockpit area just forward of the rollover frame.





Chad works on an interior panel of the main fuel bay.

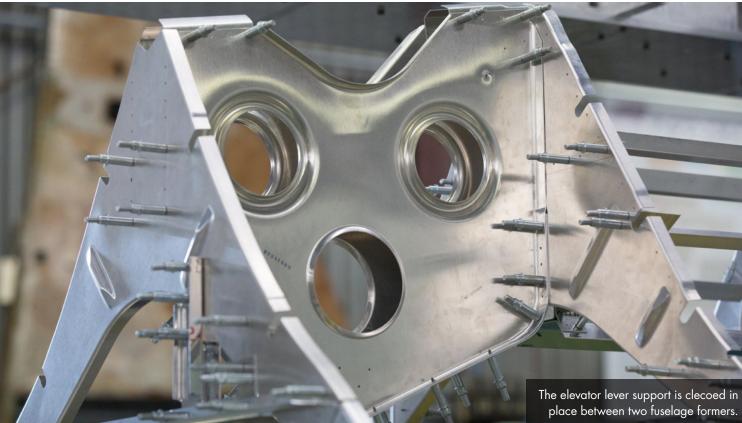










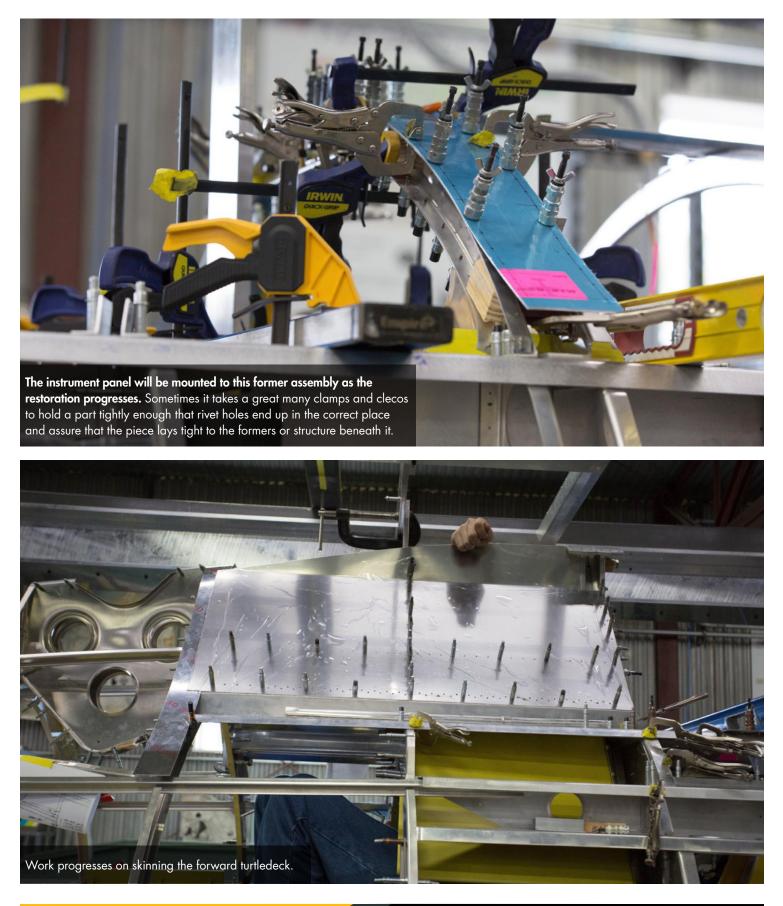










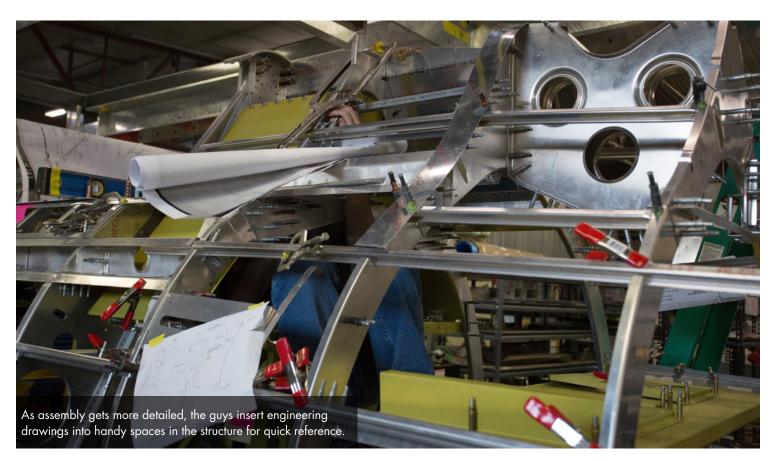










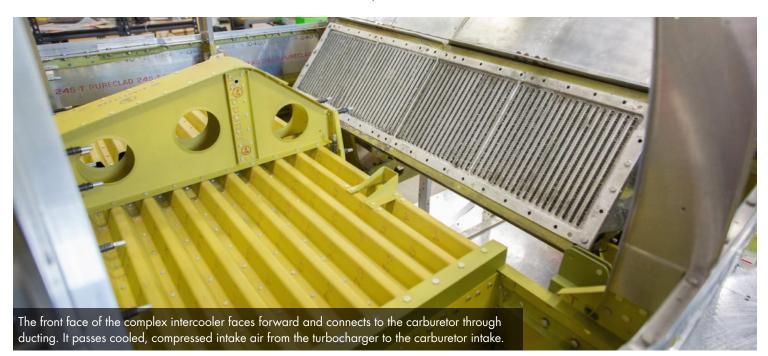






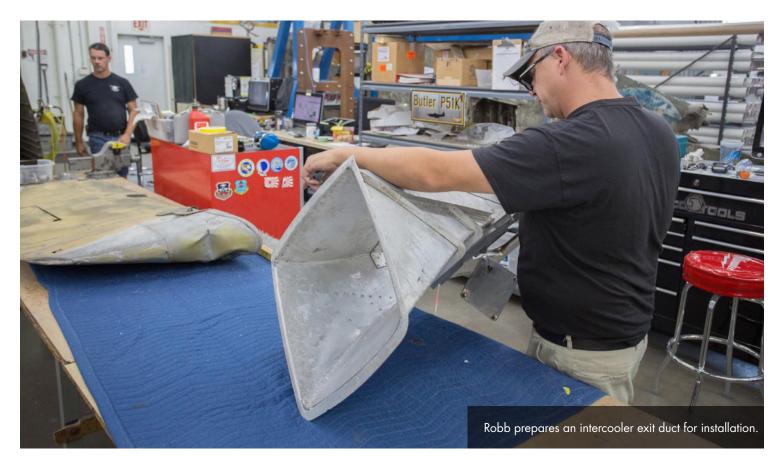
Intercooler System

It is easy to see how much space the Harrison intercooler and associated ducting takes up, and why this system had so much to do with the Thunderbolt's size and shape.











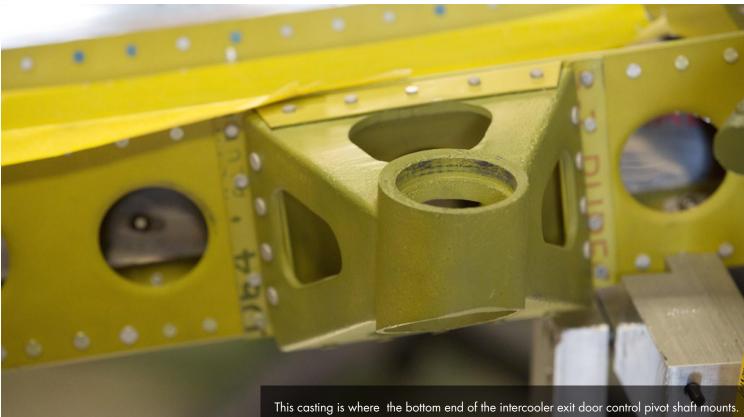












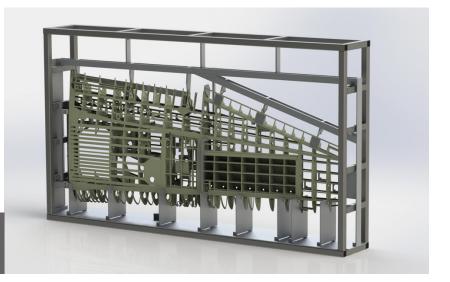




Parts

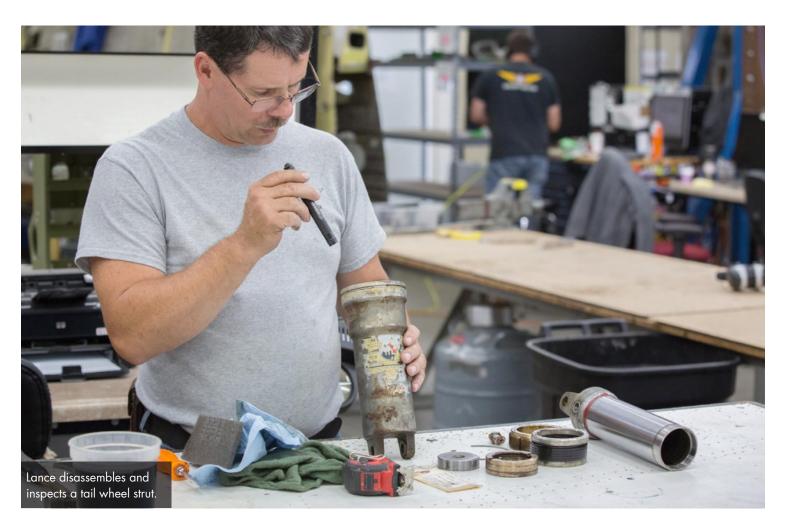
Inspection and restoration of parts needed in upcoming steps goes on as always. Another critical task is design and fabrication of the wing jig that will be needed after the fuselage is essentially complete. Steve Wold, of our CAD engineering department, shared his work on that wing fixture. It isn't complete yet, but rather a work in progress.

This CAD rendering of the future wing fixture is the result of hours of design work.









LANCE SUMSTAD, Airframe Component Repair

Our profile subject this time is Lance Sumstad.

Lance is a relatively new face in the restoration shop. His background is varied and interesting and his skills are a welcome addition to the restoration crew at AirCorps Aviation.

Lance was a B-52G crew chief and currently is a licensed outstation A&P mechanic. He owned his own welding and manufacturing business making a wide variety of products including truck utility bodies, trailers, and specialized ice fishing trailer/houses that can be lowered onto the ice surface by rotating the wheel assemblies. Lance also worked as a production manager at a laser and powdercoating business, and designed production equipment for Mann Lake, LTD a beekeeping supply company.

Akeley, Minnesota is where Lance and his wife Sheri call home. They have a grown son and daughter and are blessed with 5 grandchildren The Air Force runs in the family, both of the Sumstad offspring also served.

Lance's favorite warbird is the P-47 he is currently working on. He says the best part of his job at AirCorps Aviation is working with knowledgeable and talented people in a very organized and structured company.