

JULY/AUGUST

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









Update

This month, work continued on fuselage systems, the ailerons were riveted, and work was begun on the exhaust system. Some of the ducting for the turbosupercharger was fitted in conjunction with the exhaust system.

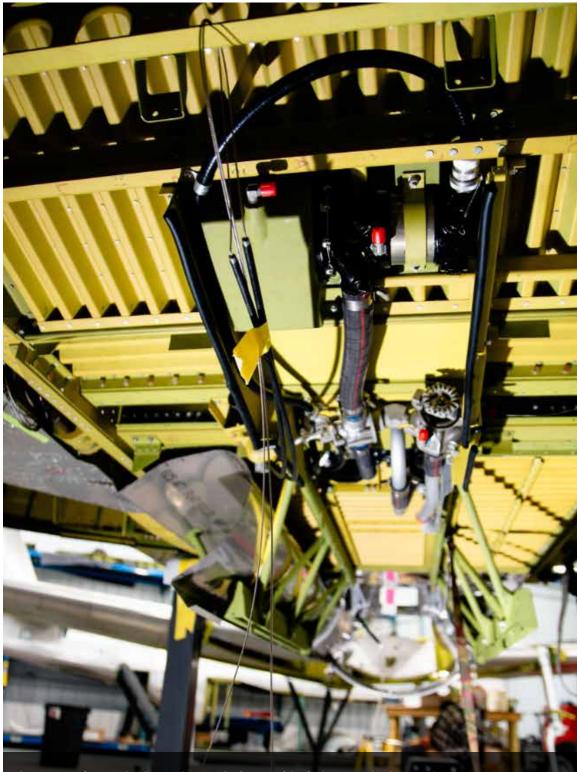
Fuselage

Systems work continues on the fuselage.



The black shelf, left center of the image, is where the battery will be mounted. The part of the motor mount with an open tube in the lower center is where the hand starter crank will go. Imagine hand cranking 2800 cubic inches of Pratt and Whitney radial!



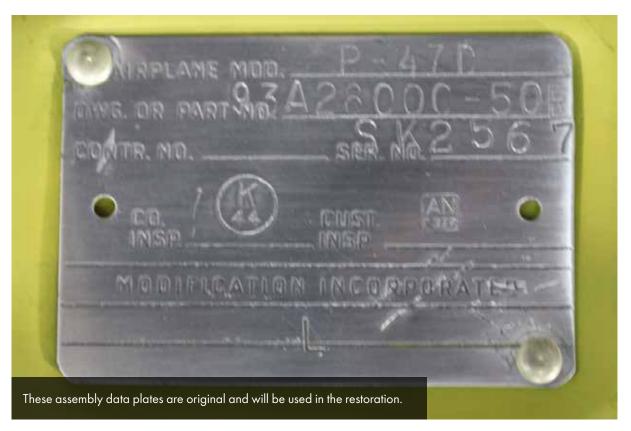


This is a view from under the auxiliary tank of some of the fuel system plumbing and components. At upper right, with the zinc chromate colored strap around it, is the auxiliary tank fuel boost pump. Below that, in the right center of the image, is the fuel strainer (it has what looks like a faucet handle on it). Just left of that with the large black hose connected to both ends, is the main fuel selector. The drop tank selector is also installed, but it is buried above the main selector and isn't visible.



Ailerons

In any restoration, the various assemblies are put together with clecos, skins are fitted and drilled, then the assembly is taken apart for painting, deburring the rivet holes, and any other needed adjustments. Finally, the parts are actually riveted together to complete the component. The ailerons have reached the final riveting stage this month.









Brad works on an aileron.

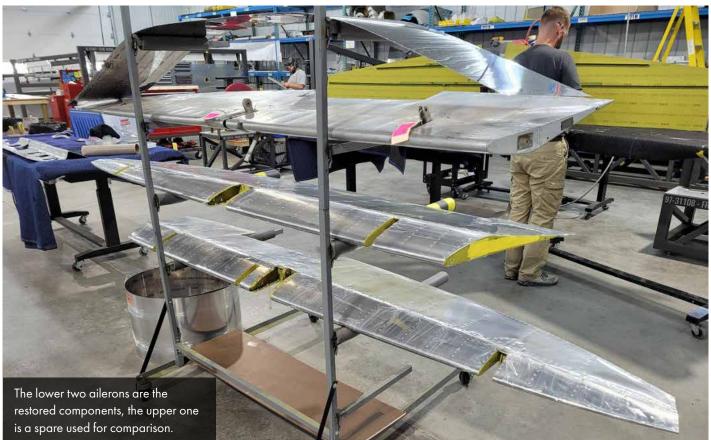














Landing Gear

The landing gear on the P-47 is massive, as befits such a large fighter. Most of the work restoring the gear has been completed.









The multi disc brake assembly is in place on the axle. For this restoration, General Electric P-47N brakes are being used because their multi disc design is safer. The original brakes in a P-47D-23 would have been drum brakes that can fade because they don't dissipate heat as readily as the disc design.



The tail wheel assembly is installed and the various mechanical and hydraulic connections have been completed.

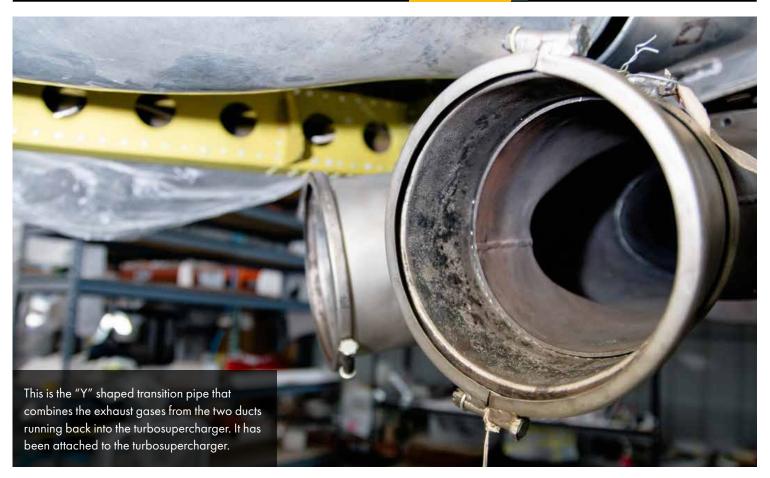


Turbosupercharger System



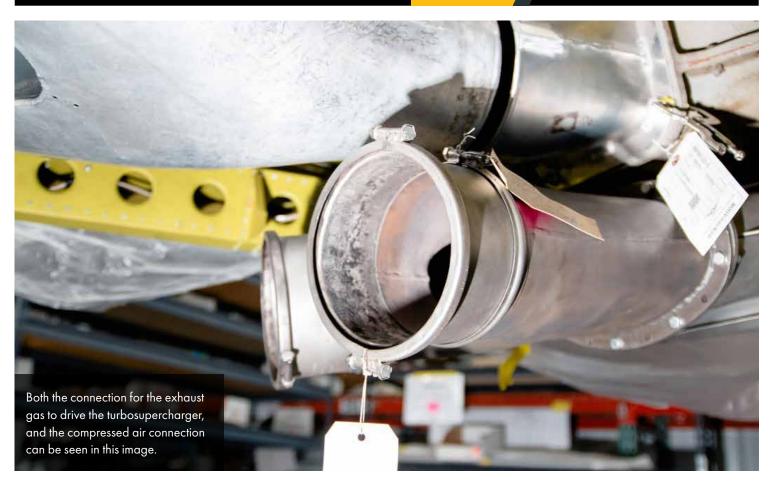
The impeller attaches to the top of the main turbosupercharger shaft and the bucket wheel is at the bottom. The bucket wheel is in the lower, hot section that drives the turbosupercharger by exhaust gas pressure, the impeller is in the upper, cooler section of the turbosupercharger, and compresses the air to feed the carburetor.















Small Parts Fabrication

Even at this stage of the restoration, small parts are still being fabricated. One example is the cover for the gun bay heat baffle.

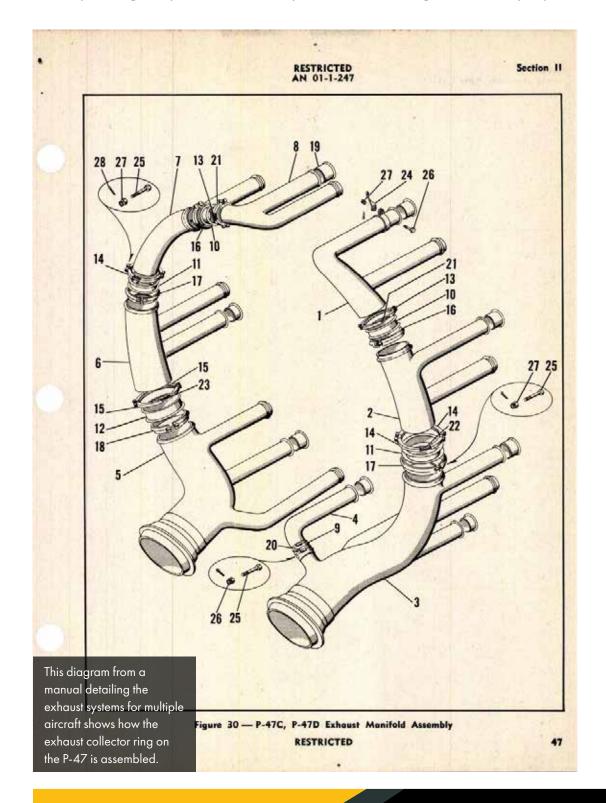






Exhaust System

There are so many complex systems on the P-47, and the exhaust system is no different. It has to flow back through the turbosupercharger to power that assembly before the exhaust gases are finally expelled.















35th Fighter Group, 39th Squadron during the service period for 42-27609.

42-27609 was operational in the combat area of Papua New Guinea from late May to the first part of September of 1944.

The 35th Fighter Group first received P-47D-23RAs in late June. They were the first Fighter Group to list the D-23 in their squadron history inventory pages. The 35th experienced a quiet period for combat during June and July of 1944, but combat missions increased greatly with the beginning of August.



"On June 25th, 7 new P-47D-23RAs arrived from Finschaven. Seven more were added two days later but no missions were flown until August 3rd, when glide bombing was introduced against Japanese positions on Noemfoor Island and the Vogelkop Peninsula. For the first time, 500 pound bombs were used on the underwing shackles, doubling the P-47's offensive load."

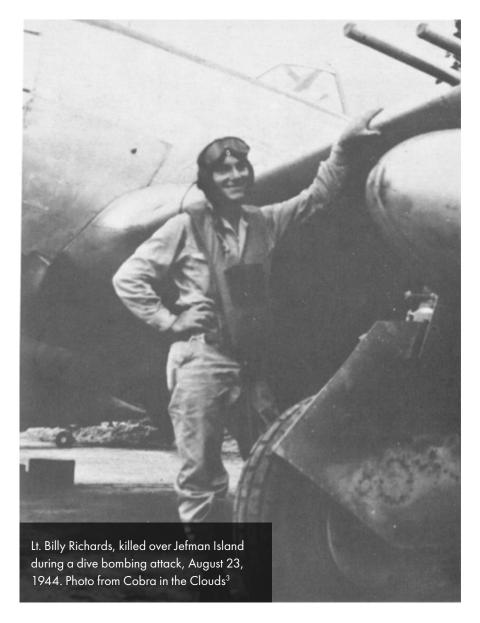
42-27609 was very possibly one of those first 27 D-23s.

¹ John Stanaway, Cobra in the Clouds, Historical Aviation Album 1982, Temple City, CA, p.28



The 39th Fighter Squadron experienced a change in command during this period. Major Harris Denton turned the squadron over to Major Richard Cella. The first mission Major Cella commanded was a 900 mile flight of 26 P-47s from Nadzab to Noemfoor to cover the building of airfields on Middleburg Island. Over the next 6 weeks, the 39th guarded against the occasional raiding of Japanese soldiers during their tenure on the island.

On August 9th, their first operation from Noemfoor took place as two flights of P-47s covered a convoy off Cape Sansapor. Similar missions filled the next few days until August 20th when the squadron went out on a fighter sweep to the Moluccas, led by Captain Gordon Prentice. "With a flight duration of 5 hours and 20 minutes, it was the longest P-47 mission flown by the 39th (and probably any other Fifth Fighter Command unit) up to that date. No longer would the skeptics berate the P-47's range. Later in the year, with three external tanks and a technique of controlling their cruising speed with propeller pitch, as demonstrated by Charles Lindbergh, the squadron registered missions up to eight hours."²



The 39th and the rest of the 35th Fighter Group had moved 900 miles west during this time. The next big jump would be to the Philippine Islands later in 1944. On August 23rd of 1944, the squadron sustained its first operational combat fatality, when First Lieutenant Billy Richards was shot down by enemy anti-aircraft fire over Jefman. Lt. Richards was flying P-47D-23RA, AAF serial number 42-27620. Richards' P-47 is only 11 numbers after our restoration airframe in the Evansville sequence, and it arrived in Townsville, Australia on the same day. Both aircraft were shipped to the SW Pacific on the carrier Prince William, CVE 31.

On September 5th, a glide bombing operation was carried out on Halmahera. The P-47s made the 800 mile round trip with no difficulty and all returned safely with fuel to spare.

Air operations were halted briefly while the 39th began a move from Owi to Morotai on September 12th, the ground contingent arriving by ship four days later.

42-27609 was abandoned at Dobodura on September 18, 1944.

¹ John Stanaway, Cobra in the Clouds, Historical Aviation Album 1982, Temple City, CA, p.29