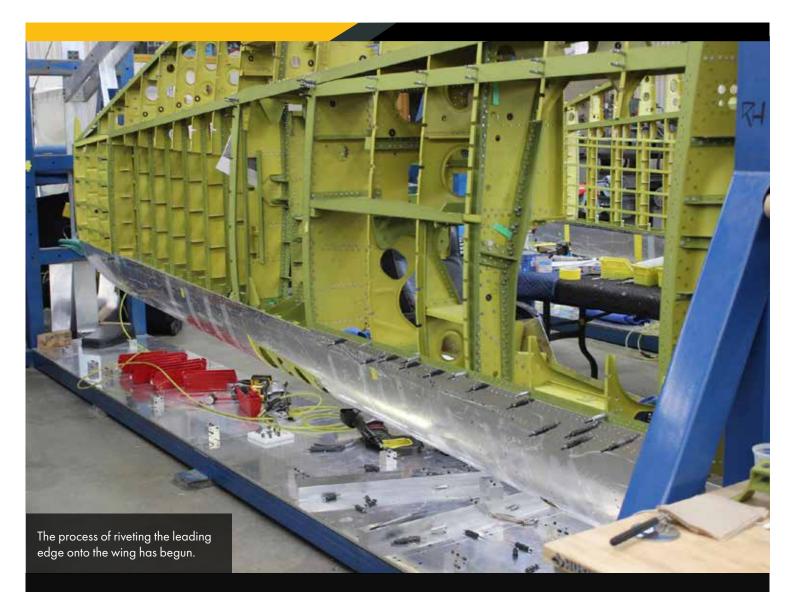


SEPT/OCT

Dakota Territory Air Museum's P-47 Update

by Chuck Cravens







www.dakotaterritoryairmuseum.com

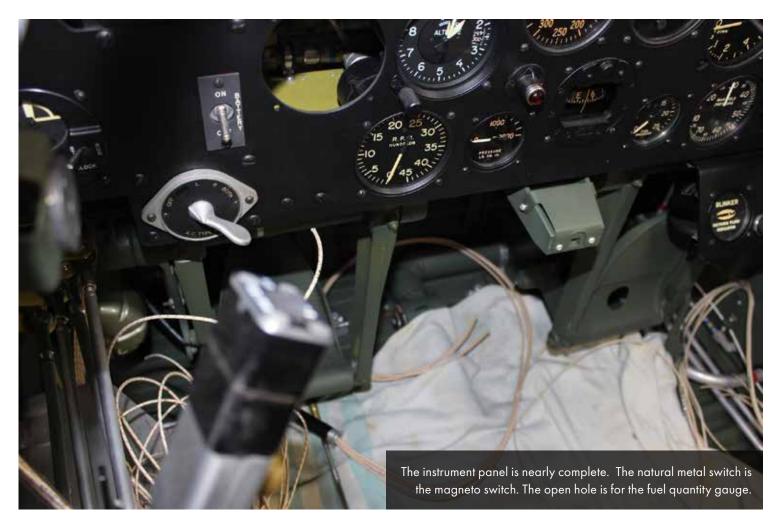


Update

The work on the P-47 this month centered on the wings, as it has for a while. The leading edges are being riveted on permanently. Also progressing nicely are the cockpit installations. In another area of the restoration shop, main landing gear components are being inspected and restored to airworthiness.

Cockpit

Aaron has been working hard to install the various electrical components and instruments in the cockpit.





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This is the water injection switch on the top of the throttle. The switch was changed from an earlier push button switch that had to be held down during the entire time water injection was being used, which made trimming the airplane for the increased power obtainable with water injection very difficult.





THIRTY NINTH FIGHTER SQUADRON OFFICE OF THE OPERATIONS OFFICER APO 713, Unit 1.

July 15, 1944.

SUBJECT: Combat Evaluation Report.

TO : CO, 35th Fighter Group, APO 713, Unit 1. ATTEN: S-3.

1. In accordance with Memorandum 55-10, dated 29 Mar. 45 V Fi. Com, the following report is submitted for period ending July 15, 1944.

a. The P-47-D-23 airplane is equiped with a push button water sclenoid switch on top of the throttle. This type of switch is undesirable since it must be depressed during the entire period in which water injection is employed. It is therefore virtually impossible to trim the airplane for the increase in power obtained. A toggle switch as installed on P-47-3 and P-47-4 airplanes is more practical and has been substituted in the airplanes of this Squadron.

b. A toggle switch has been installed in the water pump circuit to prevent continuous operation of the pump. Thus the life of the pump is increased and a means is provided to prevent the water pump from freezing after the system has been run dry.

For the Squadron Commander:

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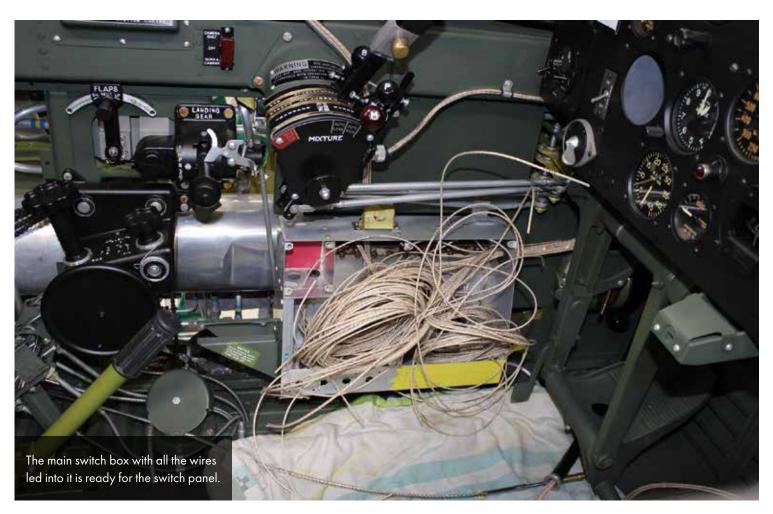
/s/ William L. Urquhart /t/ WILLIAM L. URQUHART Capt., AAF, Operations Officer.

A TRUE COPY:

RUSSELL C. 1st Lt., Air Corps, Ad jutant.

The change to a switch that remained on when it was positioned is described in this combat evaluation report from the 35th Fighter Group. This change became a technical order applicable to all P-47D-23s and was incorporated at the factory for later versions.











 The magneto switch is the large silver lever visible here. The backet antached to the bottom center of the instrument pane witch the parking backe handle assembly.







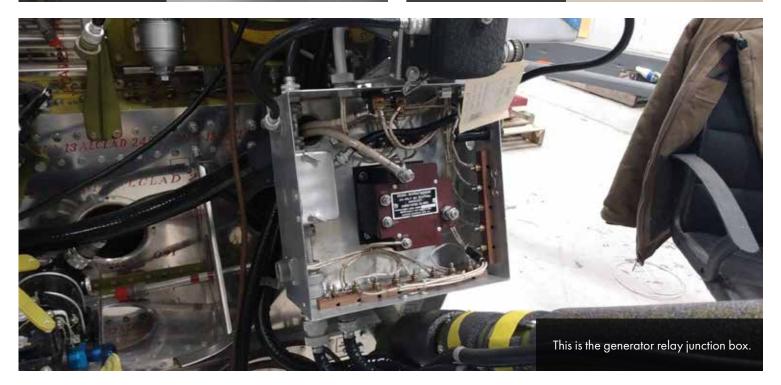


Firewall Forward

The prop control box, ground power plug receptacle, and the generator relay junction box, were the firewall forward components installed this month.











Wings

Various reinforcement panels were assembled and riveted on this month, but the main item of progress was riveting on the leading edges. They are the first portion of outer wing skin to be completed.





cylinder, and gain access to the landing gear retraction assemblies.





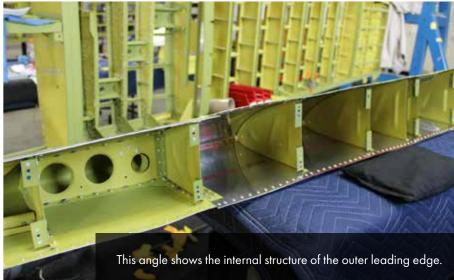


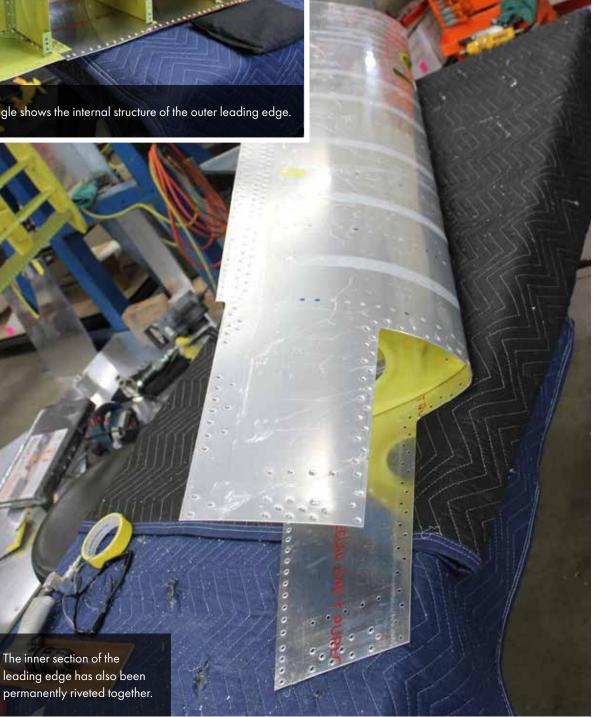
point of actual gun installation.



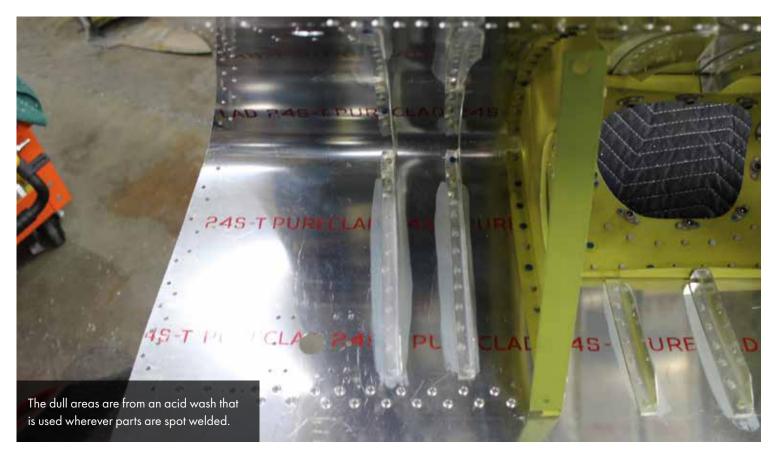
































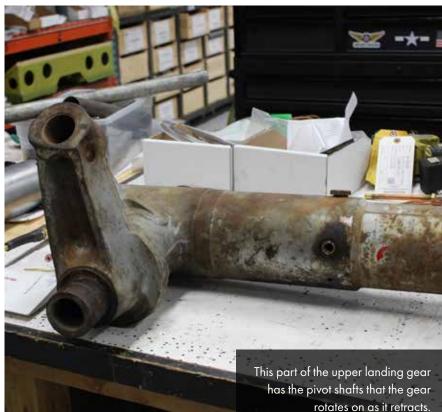
Landing Gear

Lance has inspected several original landing gear strut assemblies and selected the best examples for restoration.



The fitting on this end of the main landing gear is the transfer valve. When the P-47 main gear is retracted, it compresses to fit in the wheel wells. A cam inside the gear strut actuates this transfer valve, which allows the hydraulic fluid to be released into the upper chamber of the strut.



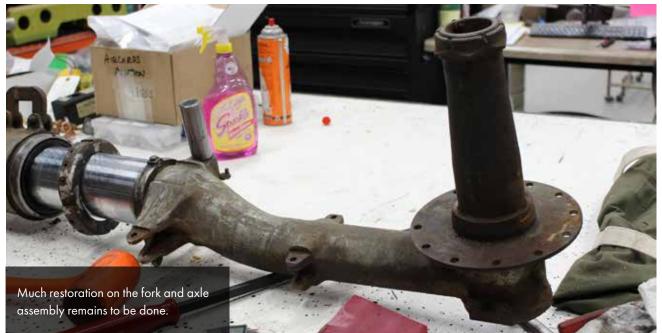






The large lever (far left) above the pivot shaft is for the landing gear downlock. The downlock cylinder pushes a large pin into the hole on the upper end of the lever in this image. The pin locks the landing gear in the down position.







Republic Aviation Factory, Evansville, Indiana

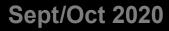
This month, the Evansville P-47 Foundation has been successful in their quest to return an Evansville built P-47 to its home city. P-47D-40RA Tarheel Hal was built in the Evansville factory and accepted by the USAAF on May 7, 1945. The foundation obtained the Thunderbolt from the Lone Star Flight Museum after many years of searching. Fundraising efforts to make the move permanent continue.

To learn how to contribute, visit the Evansville P-47 website: <u>http://www.bringevansvillep47home.</u> org/?fbclid=IwAR3QS06XSnImLmY3EOQQ2ToRNPG3gX5XoVNpYKQFX6uxHzMUJYnwBjIR8dM

In light of their successful effort, I thought some photos from inside the Evansville factory would be appropriate.

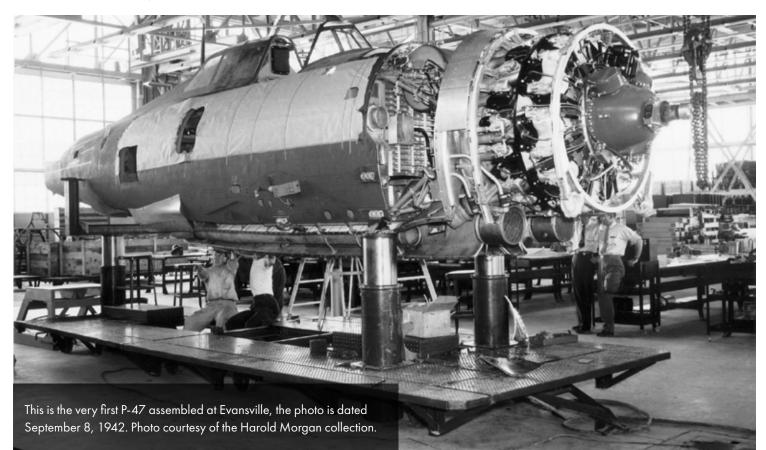
The following photos were generously supplied by Harold Morgan of Evansville. Many were used in his highly recommended book Home Front Warriors: Building the P-47 and the LST Warship in Evansville, Indiana During World War II.







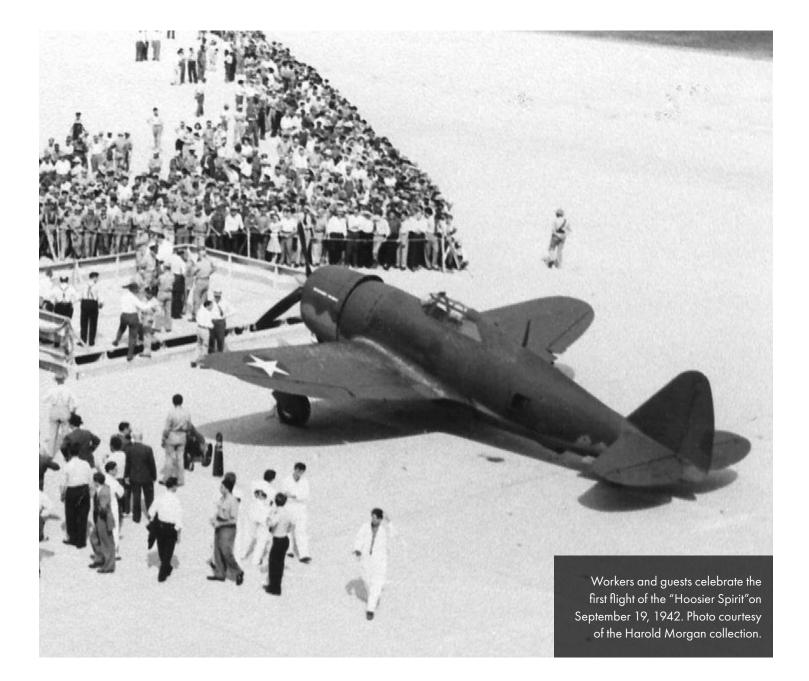
Before the Evansville production line was started, the first five P-47s were hand assembled.



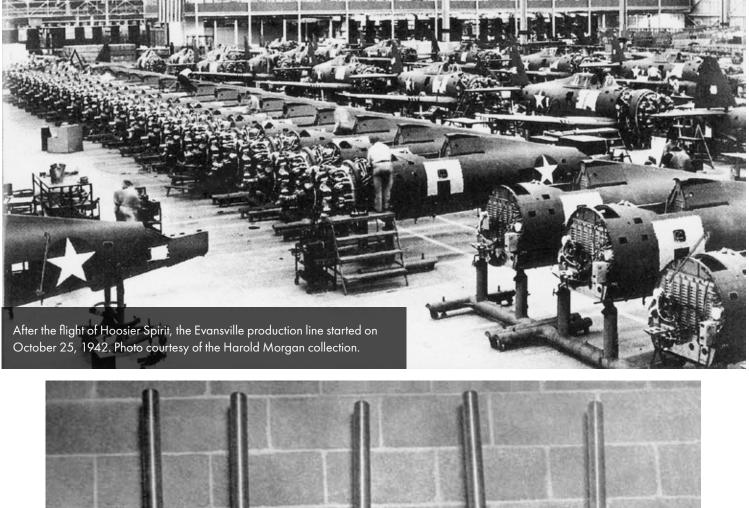












The vene worked as P-47 gun assemblers were nicknamed the "on volution" in the vene of the Harold Morgan collection.

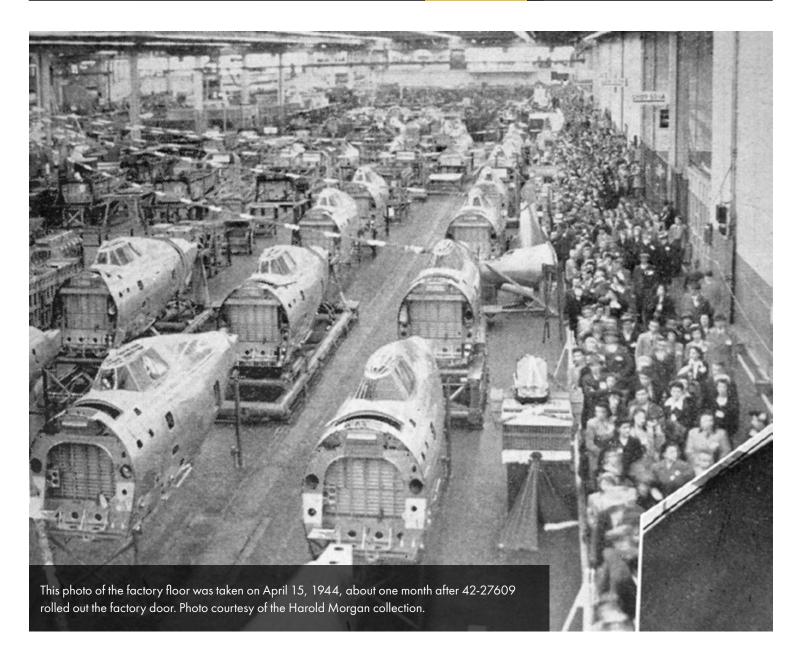






Sgt. Gertz and P-47 named for Raider armament girls.





The early P-47s required 22,927 man hours of labor and cost \$68,750. By September of 1944, the man hours had been reduced to 6,290 and the cost to \$45,699 per Thunderbolt.

The Evansville factory produced 6,242 P-47 Thunderbolts during WWII.

Indiana designated the Republic Aviation P-47 Thunderbolt as the official state aircraft in 2015.

¹ Harold Morgan, Home Front Warriors, Building the P-47 and the LST Warship in Evansville, Indiana During World War II.

⁽Publisher Harold Morgan, 2011) Mount Vernon, Indiana