

Safety Summit

"Maintenance"

Presented to: "14CFR part 141 Pilot Schools"

By: Tony Alfaya, Program Manager

Orlando FSDO FAASTeam

Date: May 10, 2018





NEWS

NTSB Releases Details of Daytona Beach Accident

Piper wing failure points to metal fatigue.

By Rob Mark Yesterday at 12:42pm

April 14, 2018



NEWS NTSB Releases Details of Daytona Beach Accident

Piper wing failure points to metal fatigue.

By Rob Mark Yesterday at 12:42pm

The left wing of the aircraft separated from the airplane shortly after the pilot completed a touch and go landing on runway 25 Left at Daytona Beach International airport (DAB)...

A preliminary report released by the NTSB this week said the left wing main spar of the 2007 Arrow "revealed that more than 80 percent of the lower spar cap and portions of the forward and aft spar web doublers exhibited fracture features consistent with metal fatigue."



NEWS

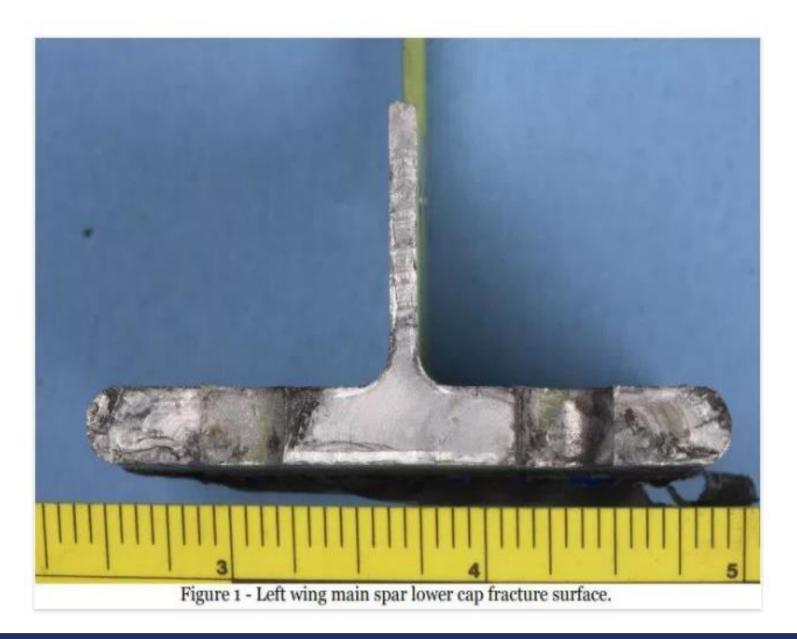
NTSB Releases Details of Daytona Beach Accident

Piper wing failure points to metal fatigue.

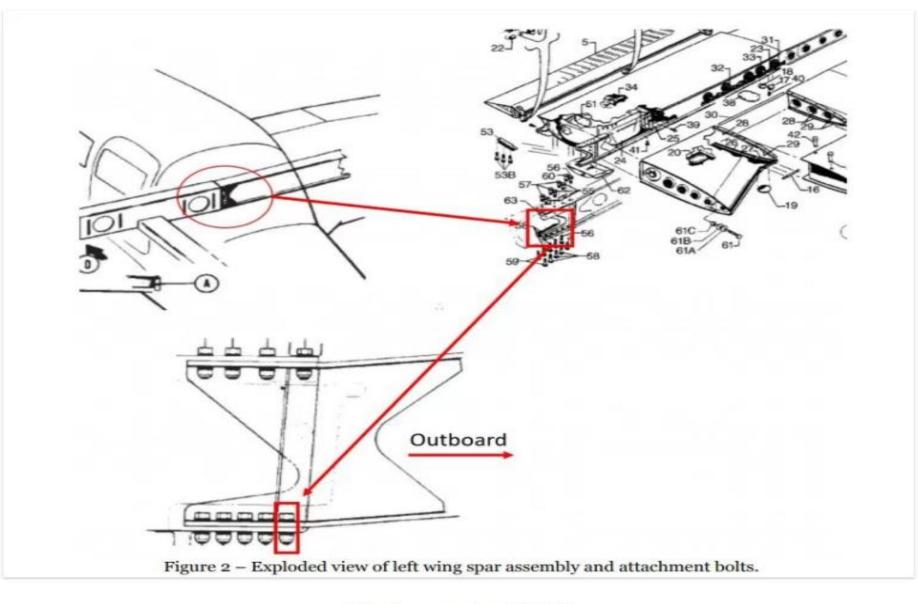
By Rob Mark Yesterday at 12:42pm

Radar data indicated the Piper had climbed to approximately 900 feet heading southwest before radar contact was lost. A number of eye witnesses within a half mile of the aircraft all reported the aircraft operating normally until the left wing separated from the fuselage and landed in a field a few hundred feet from where the main fuselage came to rest...









(Photos courtesy NTSB)



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Orlando District Part 141 Findings

- Piper PA-28RT-201 (Arrow)
- Airworthiness Date: 06/05/1979
- TTAF: +7000
- Currently at the St. Lucie County International Airport (FPR)























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Wing Inspections

Orlando FSDO



Federal Aviation Administration

Safety Team

PA-28RT-201 "Arrow" TTIS: 12186.3



RNL AV/470 PRIMISTR MIN

Federal Aviation Administration

PA-28RT-201 "Arrow" TTIS: 12186.3



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PA-28-161 "Warrior" TTIS: 12383.4



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PA-28-161 "Warrior" TTIS: 21916.5





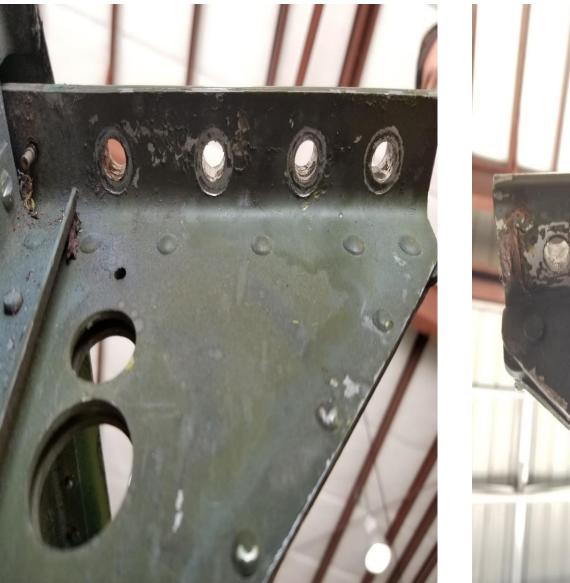
Federal Aviation Administration

PA-28-161 "Warrior" TTIS: 21916.5



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PA-28R-201 "Arrow" TTIS: 8570.2



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PA-28R-201 "Arrow" TTIS: 8570.2 – Wing movement noted. No wing damage noted in logbook.





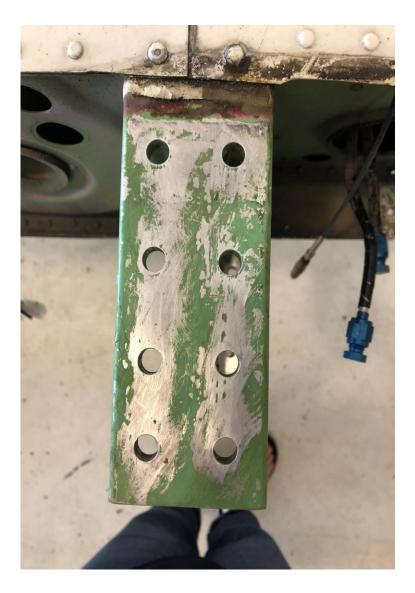
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All the later

Small crack on forward leading edge top and bottom of bracket.





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Wrinkle in spar.







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TTIS: 6672.4 – Wing movement noted. No wing damage noted in logbook.



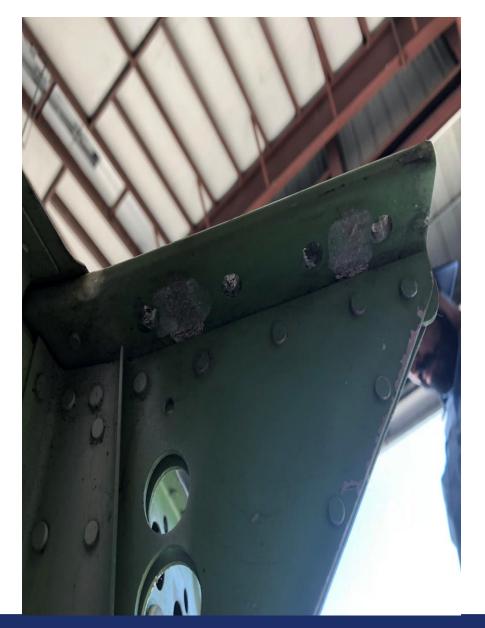
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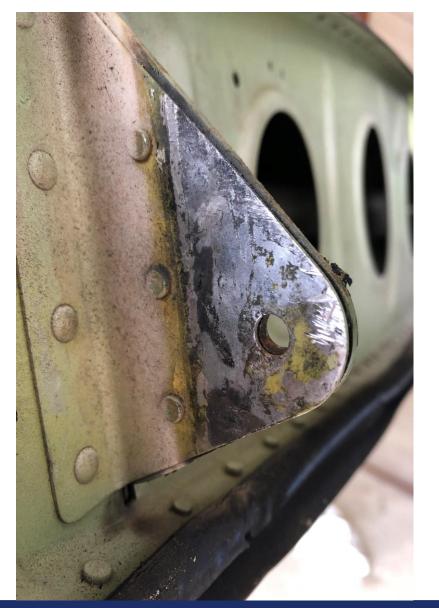








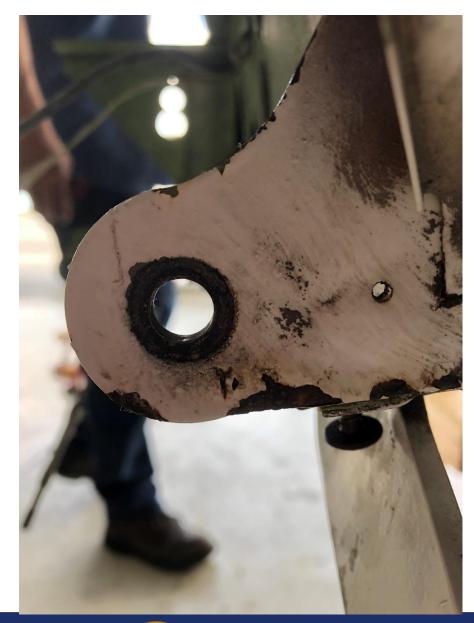














TTIS: 9041.1 – Wing movement noted. No wing damage noted in logbook.





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TTIS: 12383.4 – Wing movement noted. No wing damage noted in logbook.





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TTIS: 12913.9 – Wing movement noted. No wing damage noted in logbook.





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TTIS: 11697.7 – Wing movement noted. No wing damage noted in logbook.





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Orlando FSDO I.A.'s,

It has been brought to our attention that recent aircraft wing inspections, at one of our local flight schools, has identified that some models of Piper Arrows, Warriors, and Archers may have the following:

- Wing movement at front attachment point.
- Cracked spar at the bottom of the spar.
- Evidence of corrosion on the bolt holes of the spar. The forward fitting also has corrosion and rust.
- Oblong bolts holes on spar and wing box attach point, including bolt damage.

This information is being sent out as a precautionary safety concern and has not been verified and/or confirmed.



Orlando District IA's Findings

- Piper PA-28-140 (Cherokee)
- Airworthiness Date: 08/19/1967
- Tach: 1175.3 TTAF: 5293.0
- Last annual signed off 03/15/2017
- Currently at the Plant City Airport (PCM)





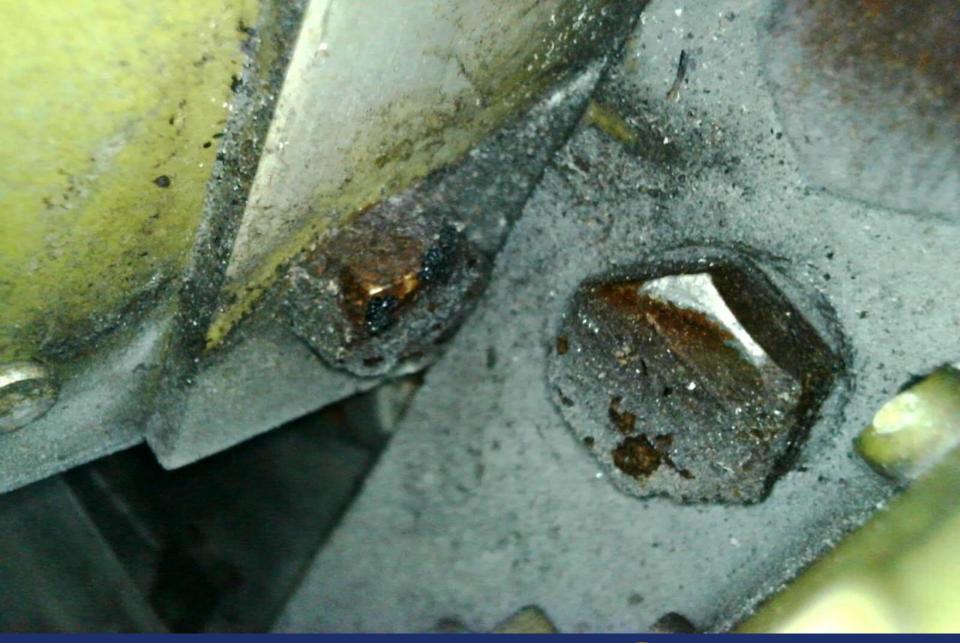














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14 CFR Part 141 Orlando FSDO Surveillance Results

"A picture is worth a thousand words..."

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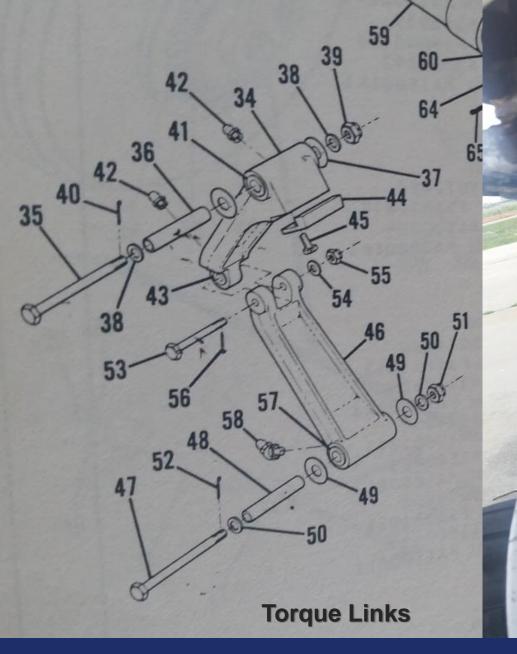














Federal Aviation Administration

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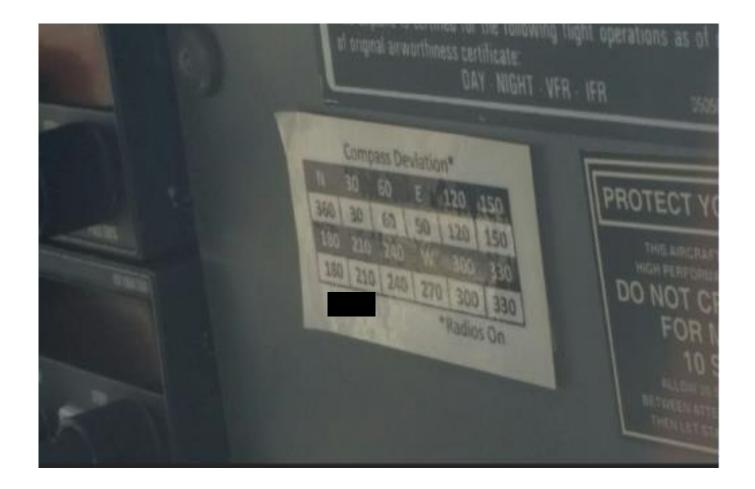








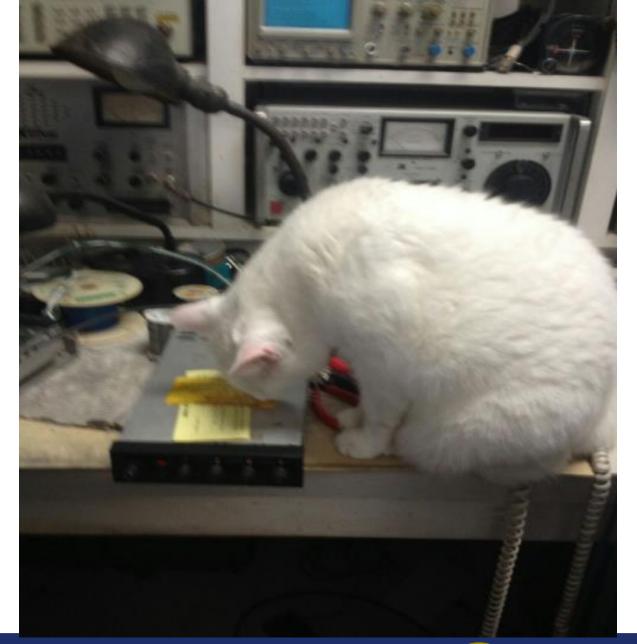














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Safety (2:08)

