

The National FAA Safety Team Presents

Topic of the Month – September Preflight After Maintenance

Presented to:

By:

Date:

Produced by AFS-850

The FAA Safety Team (FAASTeam)



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Welcome

- Exits
- Restrooms
- Emergency Evacuation
- Breaks
- Sponsor Acknowledgment
- Other information

This Way!



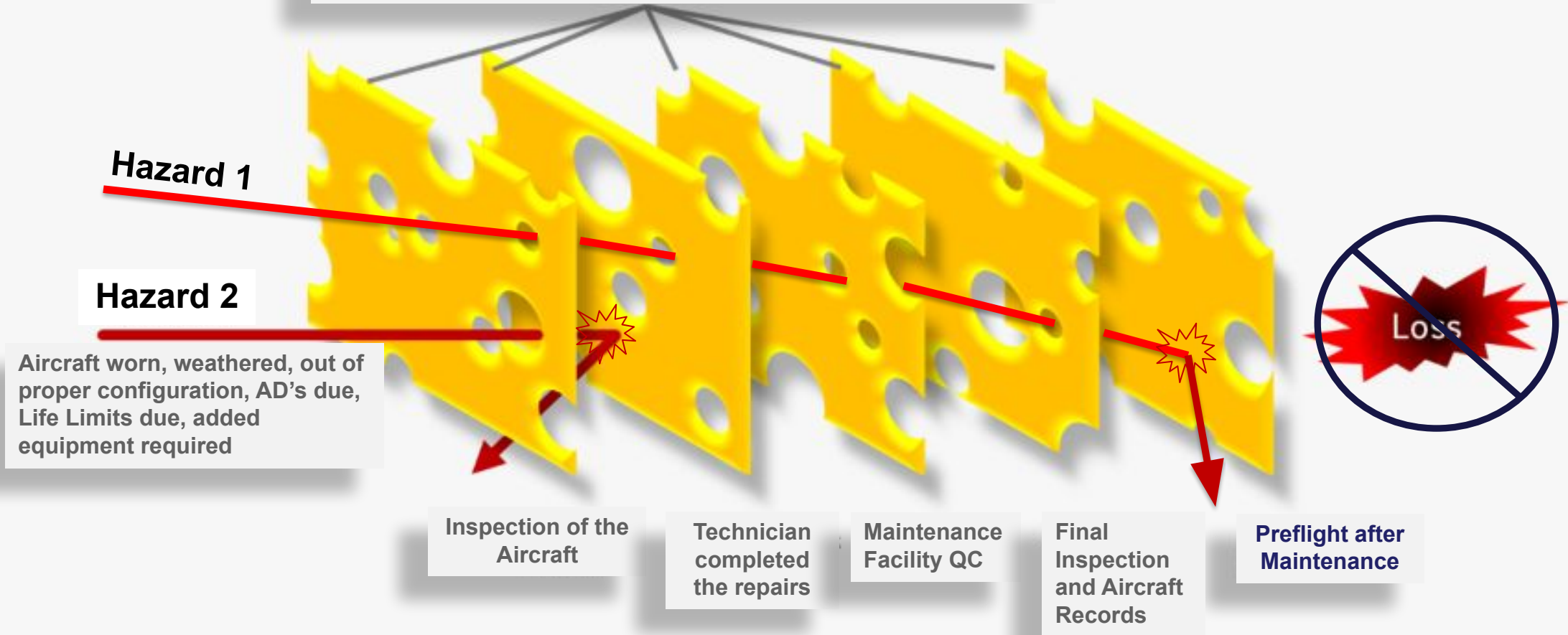
Overview

- **Maintenance Event**
- **A Case Study**
- **Are the aircraft records complete**
- **Enhanced checklist use after maintenance is performed**
- **Another Case Study**
- **Closing Thoughts**



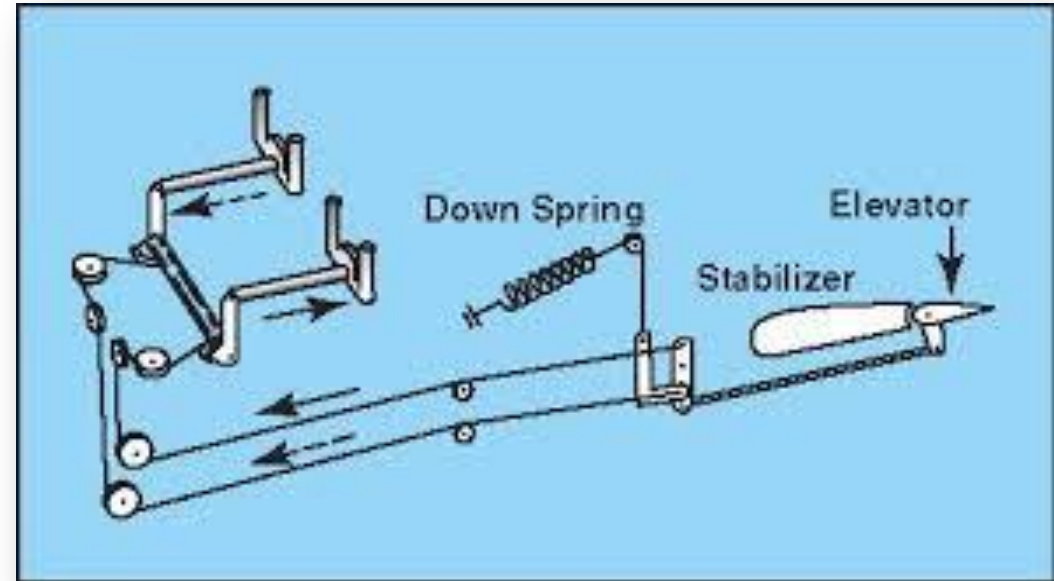
Maintenance Event

Annual Inspection



Preflight after maintenance

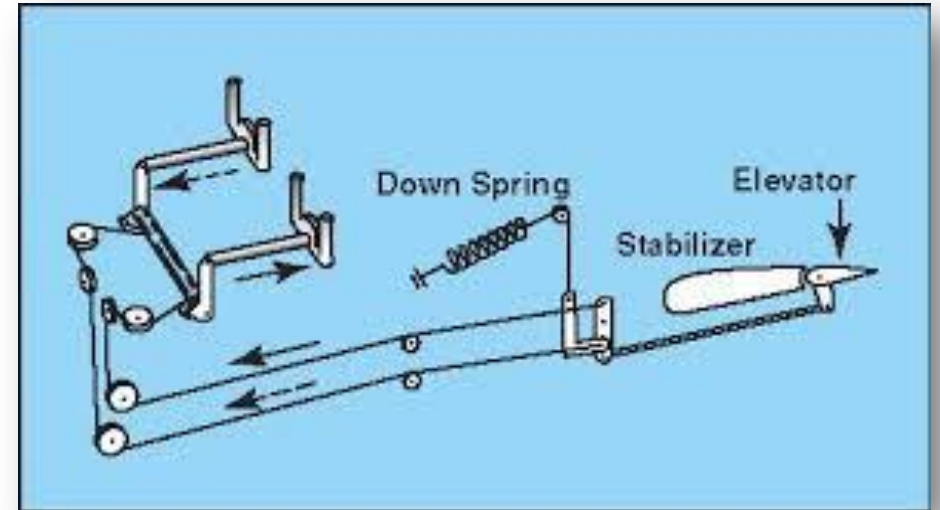
- Know what systems or structures were repaired or replaced during maintenance--they need special attention
- Discuss w/mechanic **ALL** work that was done
- Don't assume the part(s) replaced are the **ONLY** things that were taken apart or affected
- The trim tab likely checked "secure" but it wasn't the only part of the system affected



Preflight after Maintenance

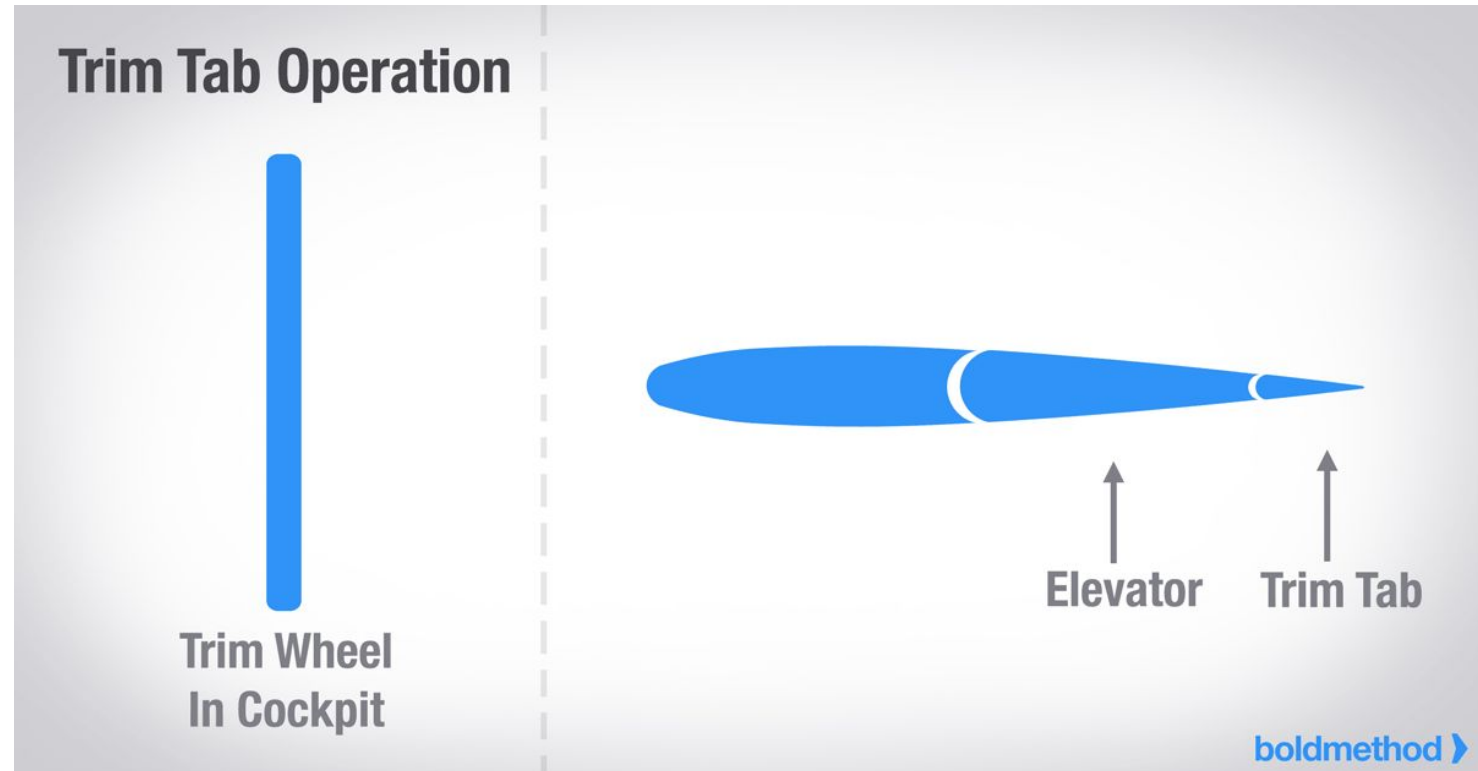
This preflight is unique and should be treated as such because:

- It's vital to your safety
- It's vital to the health of your aircraft
- It's the last line of defense against a mechanical error/failure
- Where do we look?
- What do we look for?
- How do we do it?



Elevator Trim Operation

**Which Way
does it Go?**



Review Aircraft Records



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Annuals are Special

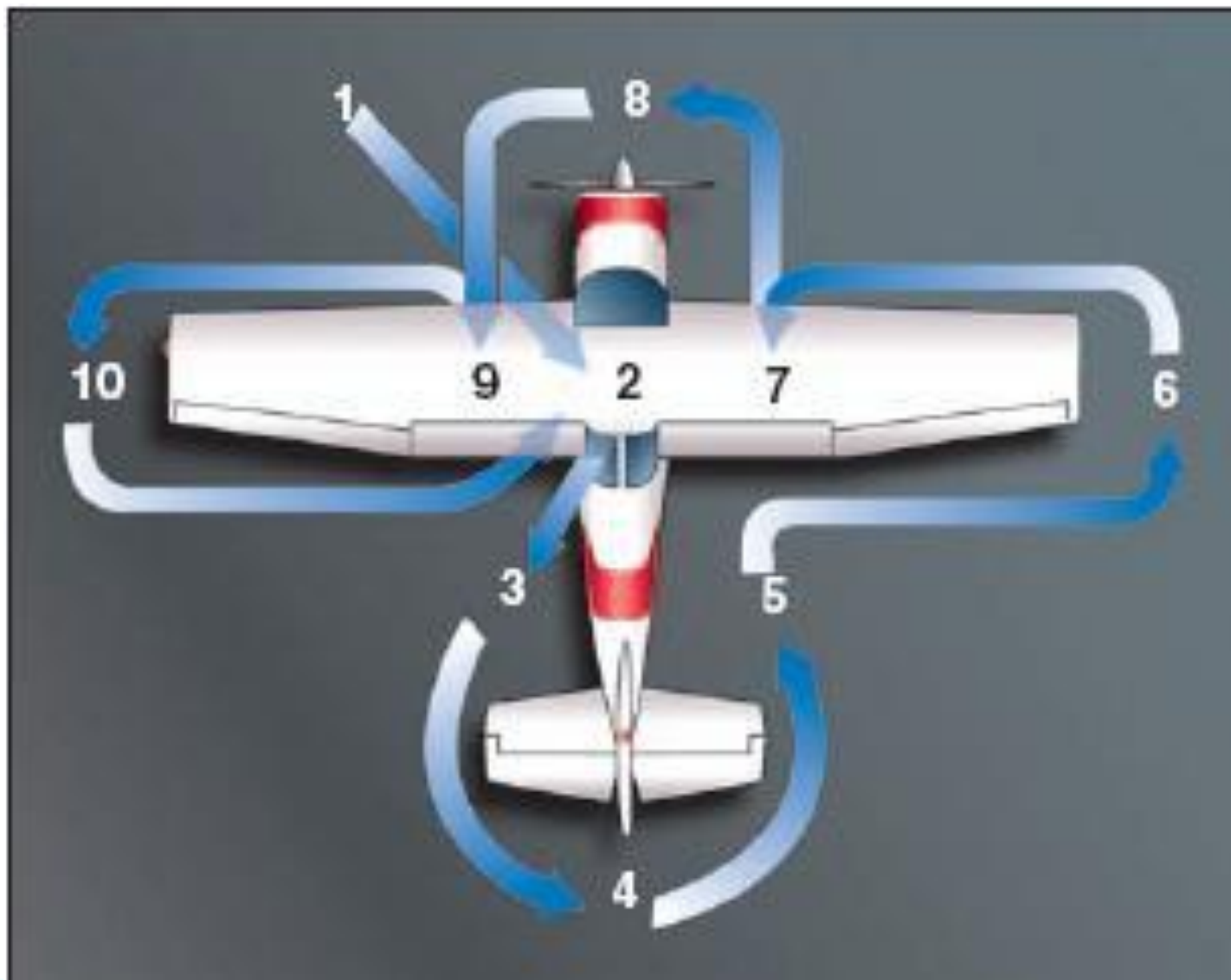


Pay Attention to Warning Tags and Signs

DO NOT FLY IF YOU SEE THIS!!!



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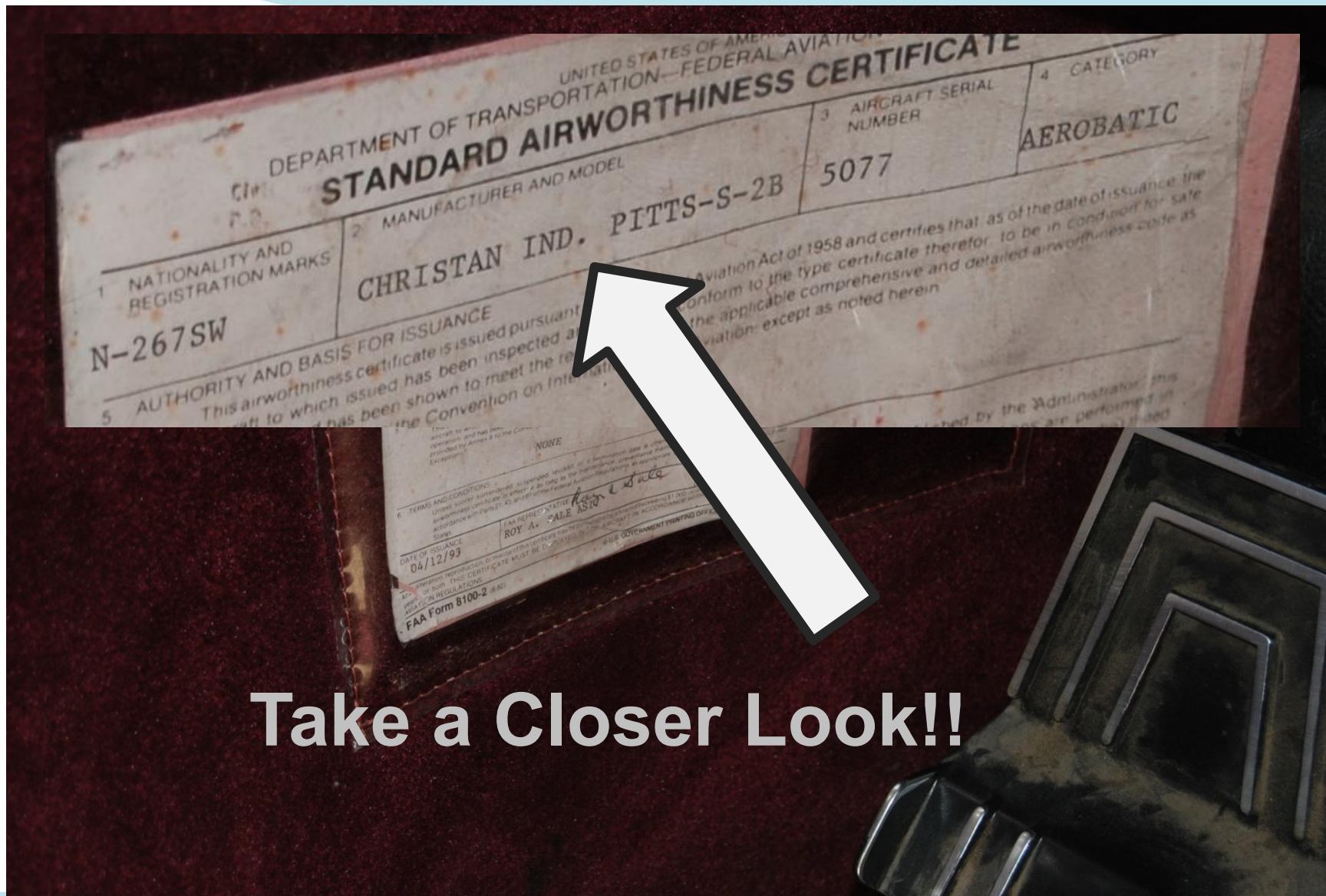


Practices



- **We are looking for something wrong.**
- **We're fault finders!.**





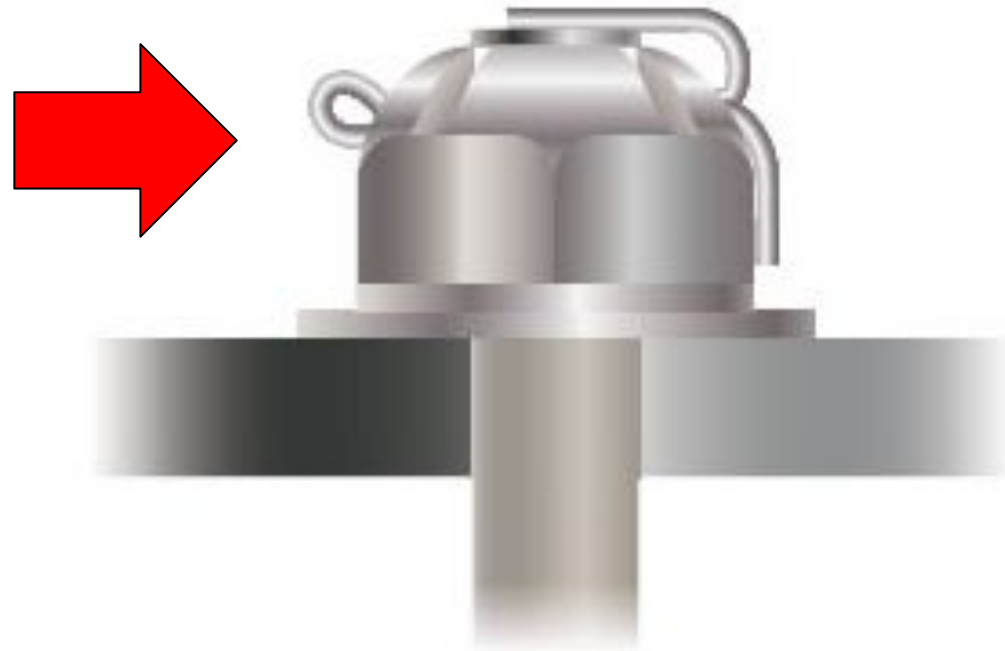
Take a Closer Look!!



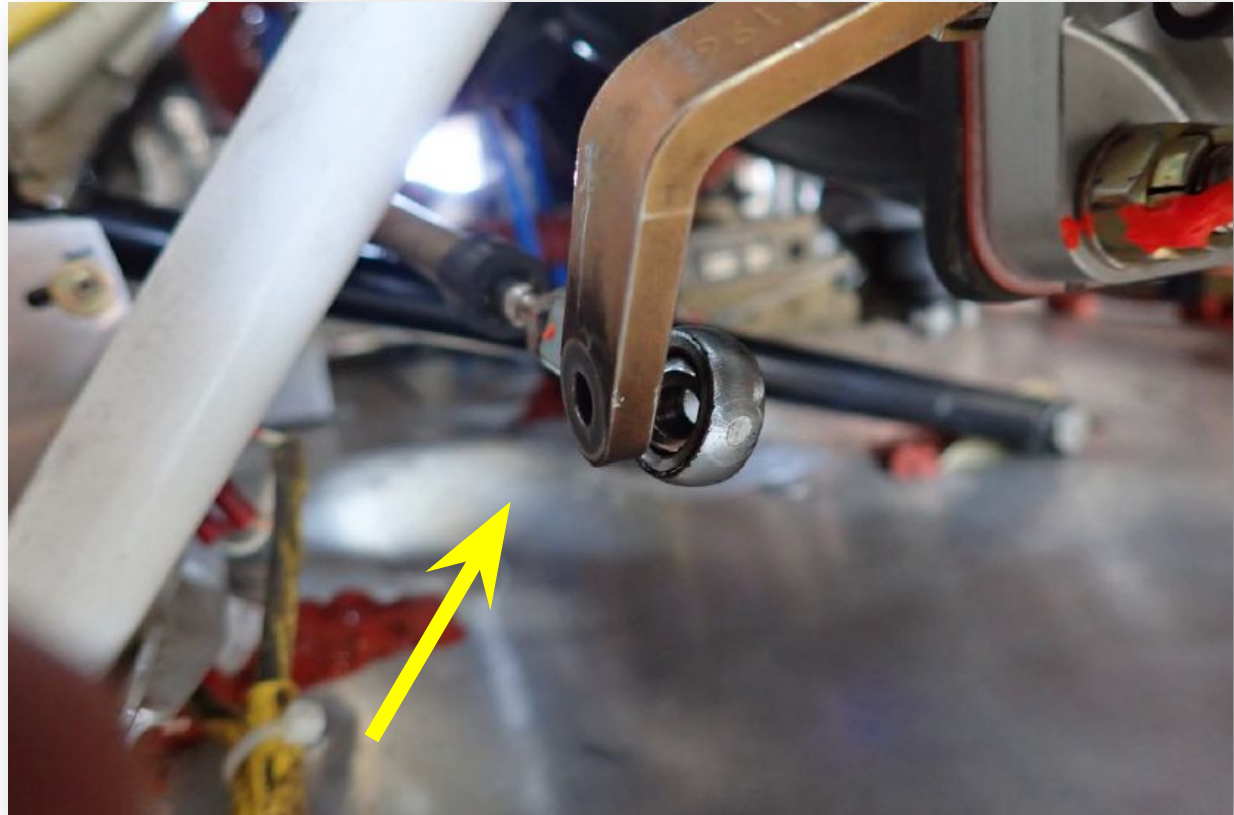
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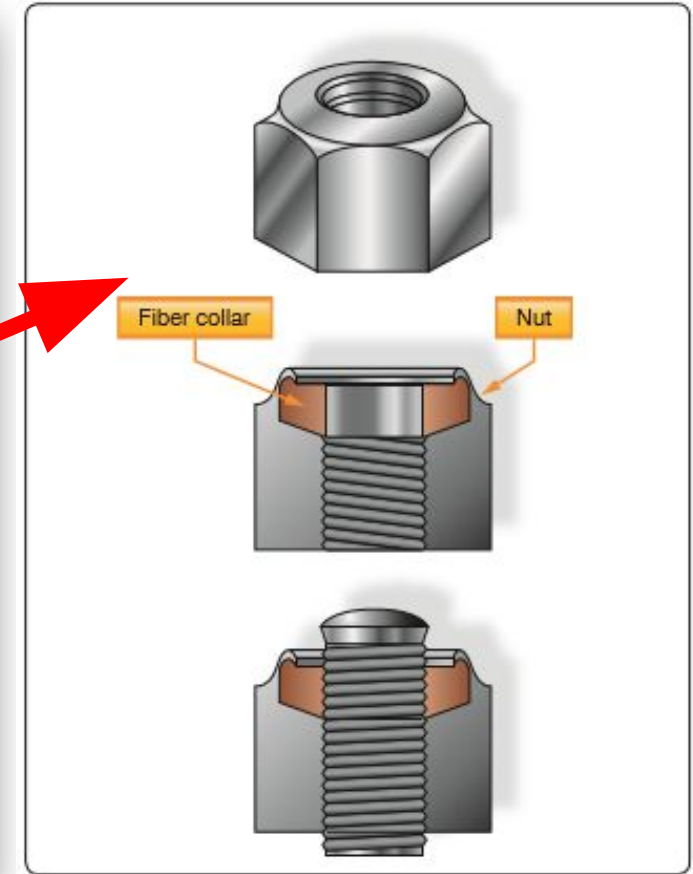
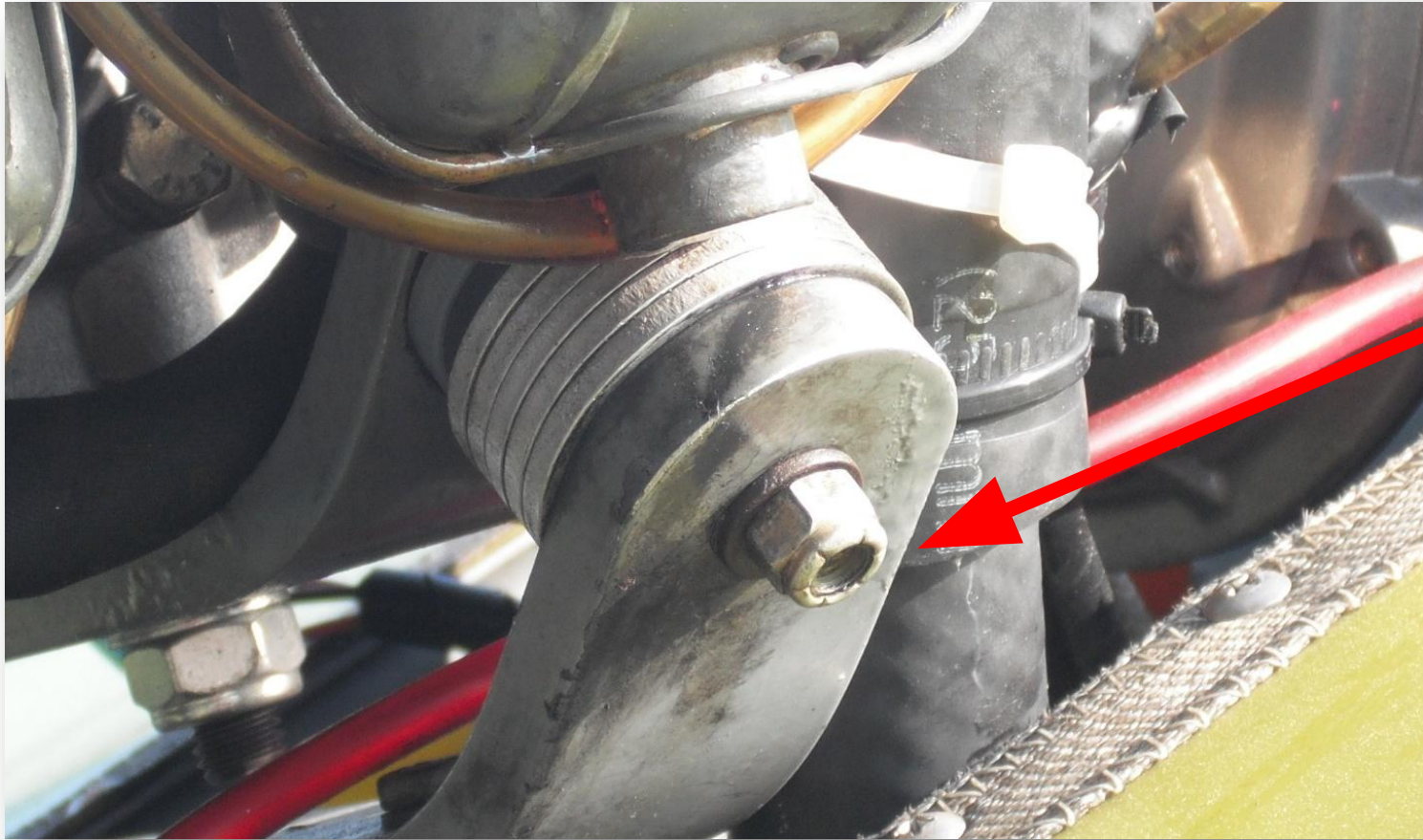
Castle Nuts



Throttle Cable Disconnected



Lock Nuts



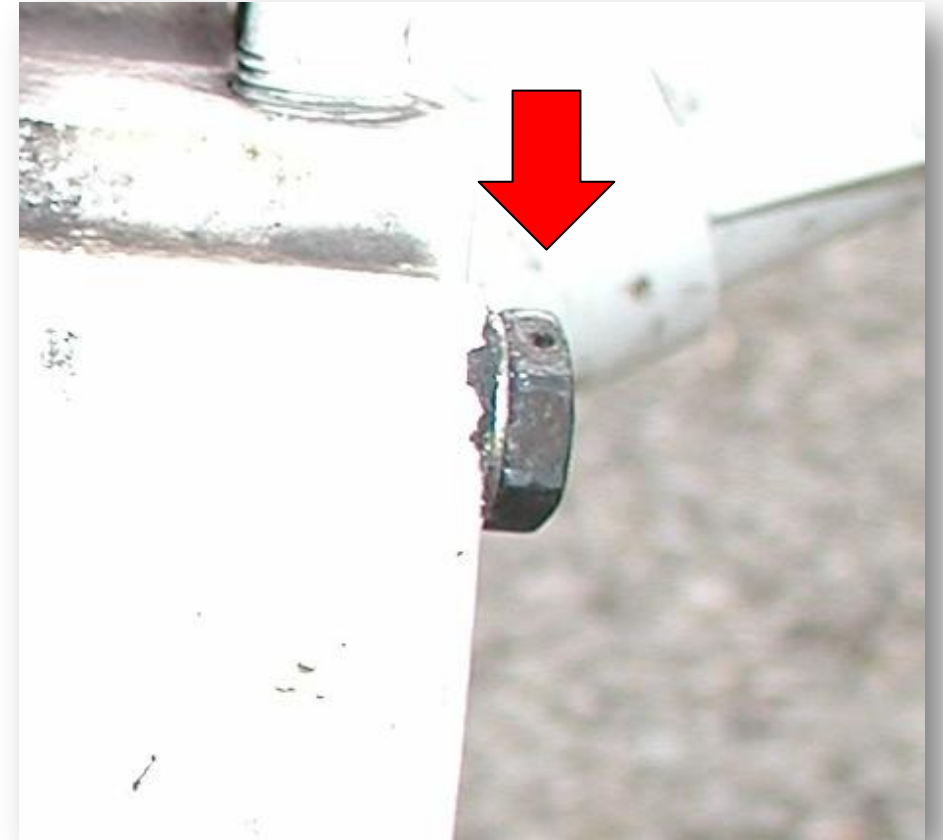






Rule of Thumb

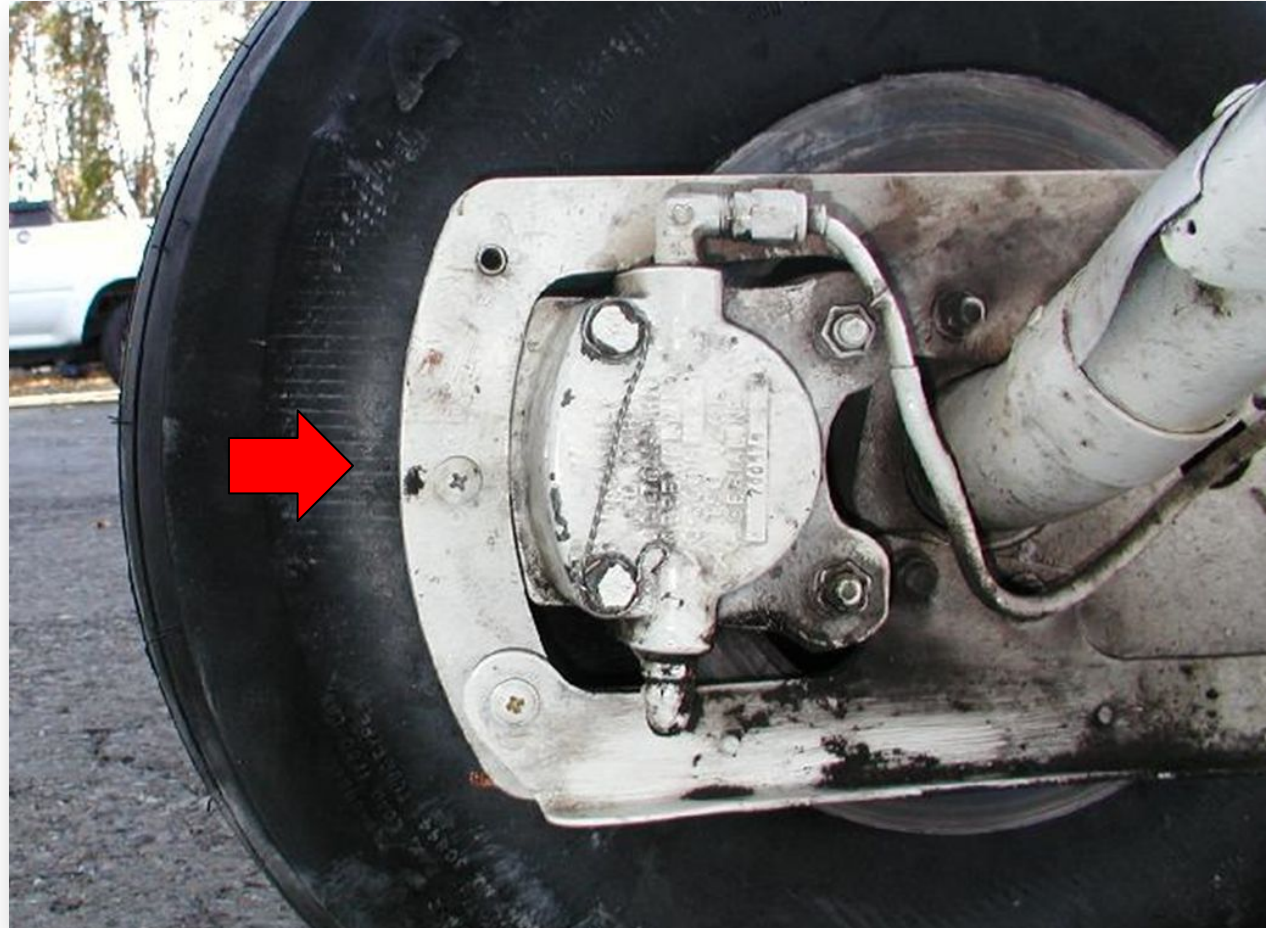
If there's a hole in the bolt...



...it should have wire in it



**Rule of
Thumb**



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For more information

Search: AC 43.13-1b

**Acceptable Methods, Techniques, and Practices -
Aircraft Inspection and Repair**



EXAMPLE 1



EXAMPLE 2



EXAMPLE 3



EXAMPLE 4



Pretty Normal activity for a Pre-Flight



**What do
you See?**





Never assume....

that your aircraft's switches, radios, fuel amount, or other items are exactly as you left them after maintenance!!

PIPER AEROSTAR

N700PS January 16,
2012

Left engine failed during
takeoff after maintenance.

Probable cause: left fuel
selector in incorrect
position (an item on the
normal checklist!)



Final Thoughts

- Your mechanics typically do an excellent job in aircraft maintenance.
- They are human
- It is your life in the aircraft, it's up to you to take care of it



**Prepare for your first flight
after maintenance and enjoy
your aviating experience!**



And Guess What.....?

**Even the best preflight
can miss items like...**

- **Towbars**
- **Seatbelts dangling
outside**
- **Required documents
left in the hangar**
- **Myriad of other items**



PRE-FLIGHT
You did it last time



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Questions?



Proficiency and Peace of Mind

- Fly regularly with your CFI
- Perfect Practice
- Document in WINGS



Thank you for attending

- You are vital members of our GA safety community



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