

The Twin Cessna Flyersm



Engine & Systems Seminar

When: May 20 - 23, 2010

Where: Defiance, OH Airport (DFI)

_____ Twin Cessna's have complex systems and powerplants. The best owners and pilots have an intimate knowledge of how their airplanes are constructed and how they operate. Join fellow Twin Cessna pilots, owners and maintenance technicians at TAS Aviation in Defiance, OH on May 20 - 23 and get detailed knowledge about your airplane engines and systems. **It will make you a safer pilot as well as allow you to operate your Twin Cessna more cost effectively.** Over 800 owners and operators have attended these seminars in the past. You will not be disappointed.

Systems Seminar May 20-21

Engine Seminar May 22-23

Topics Covered:

1. Introduction
2. Landing Gear
3. Fuel System
4. Electrical System
5. Environmental Systems
 - a. Heater & AC
 - b. Pressurization
6. Flight Controls
7. Type Certificates
8. Corrosion

All 300 and 400 series piston-powered Cessna's are covered

Topics Covered:

1. Engine Nomenclature
2. Engine Cooling
3. Ignition
4. Engine Oil
5. Periodic Maintenance
6. Fuel Injection
7. Turbocharging & Exhaust
8. Engine Support Structure
9. Engine Overhaul & Repair
10. Engine Operations

This seminar covers TCM O-470 through IO-550 and TSIO-470 through GTSIO-520 engines.

“Attending the TTCF seminars was the smartest thing I’ve done in all my years of Twin Cessna ownership.” – Robert (T310R owner)

What?

Due to popular demand, The Twin Cessna Flyer will hold both an Engine and Systems/Operational Procedures Training Seminar. See the accompanying sheet for complete details.

Where?

TAS Aviation, Inc.

When?

May 20th through 23rd, 2009. Thursday and Friday the 20th and 21st will be the Systems Maintenance and Operational Procedures Seminar. Saturday and Sunday the 22nd and 23rd will be the Engine and Operational Procedures Seminar. Classes start at 8:AM local time on all four days. We will be finished by approximately 5:PM on Thursday, Friday, Saturday, and 4:PM on Sunday. We will have an informal time together in the evening on Wednesday and Saturday at the airport before dinner.

Who?

We offer this seminar to any active member of The Twin Cessna Flyer owner's organization and their guests. This program is directed at owners, pilots, and maintenance technicians.

Accommodations

You are responsible for your own accommodations. There are numerous hotels in the Defiance area including those of the major national chains.



Promise!

We at The Twin Cessna Flyer will do anything and everything possible to gather and distribute any and all information that could possibly lead to safer and less costly operation of all twin Cessna aircraft. Both our engines and systems seminar course has been received very well by all who have attended previous courses. We will have the latest information on Service Bulletins and Airworthiness Directives.

Come see us for both seminars, get four great days of learning and save a bundle. See the accompanying sheets for additional information on both of the classes as well as a registration form.

See you in Defiance!

1. Engine Nomenclature

- A. Engine Data Plates
- B. Engine Models
- C. Engine Specification Numbers
- D. Engine TBO

2. Engine Cooling

- A. Engine Cowling
- B. Engine Baffle Seals
- C. Engine Oil
- D. Engine Ignition Timing

3. Engine Ignition Systems

- A. Magnetos
- B. Magneto Maintenance
- C. Service Bulletins
- D. Airworthiness Directives

4. Oil

- A. Engine Oil
- B. Military Specifications and Brand Names
- C. Proper Oil Levels and Change Intervals
- D. Oil Filters
- E. Oil Additives

5. Periodic Maintenance

- A. Air Filters
- B. Oil Change Intervals
- C. Plug Rotation - Magneto Check
- D. Visual Inspections - Compression Check

6. Fuel Injection System

- A. The Fuel Injection System
- B. Fuel Screens
- C. Fuel Injectors - GAMI
- D. System Maintenance
- E. Fuel Additives
- F. Service Bulletins

7. Turbo-Charging and Exhaust

- A. Turbo-Chargers
- B. Exhaust Systems
- C. Turbo Maintenance
- D. Exhaust Maintenance
- E. Service Bulletins
- F. Airworthiness Directives

8. Engine Support Structure

- A. Engine Support Structure
- B. Engine Beams
- C. Canted Bulkheads
- D. Heat Erosion and Corrosion
- E. Service Bulletins
- F. Airworthiness Directives

9. Engine Overhaul and Repair

- A. Cylinders
- B. Factory Re-manufactured
- C. Factory Overhauls
- D. After Market Overhauls
- E. Accessories

10. Engine Operations

- A. Starting
- B. Normal and Emergency Operations
- C. Best Power
- D. Leaning
- E. Descent
- F. Shutdown

Each section will finish with comments and questions from those in attendance.



This seminar will address all engines found in Twin Cessna's, including popular conversions and upgrades.

Finally, you will receive a comprehensive Engine Maintenance Reference Manual packed with valuable information on maintaining and operating the engines on your Twin Cessna.

1. Introduction

- A. Systems related accident data
- B. Course Overview

2. Landing Gear

- A. Understanding the system
 - 1) Electromechanical
 - 2) Hydraulic
- B. Maintenance Requirements
 - 1) AD's and SB's
 - 2) Maintenance – what to Expect
- C. Preflighting the gear
- D. Preventative Maintenance – The Importance of Proper Rigging
- E. Emergency Extension

3. Fuel System

- A. How the system works
- B. Maintenance Requirements
- C. Preflighting the Fuel System
- D. Preventative Maintenance
- E. Normal & Emergency Operations

4. Electrical System

- A. System Components
- B. Normal Operation
- C. Routine Inspection & Maintenance
- D. Potential Malfunctions
- E. AD's and SB's

5. Environmental Systems

- A. How the Systems Work
- B. Normal Procedures
- C. Inspection & Maintenance Requirements
- D. Areas Prone to Malfunction
- E. AD's and SB's

6. Flight Controls

- A. System Review
- B. Common Problems – rigging, cable tension, lubrication
- C. Flap System
- D. Routine Inspection & Maintenance
- E. Areas of Special Concern

7. Type Certificate Data

- A. 310 through 310R
- B. 320 through 340A
- C. 400 Series
- D. T303

8. Corrosion

- A. What it is
- B. Most Common Areas Affected
- C. Allowable Limits
- D. Prevention & Treatment

Each section will finish with comments and questions from those in attendance.

The seminar will cover all Twin Cessna systems, from the earliest 310's through 421's.

You will receive a comprehensive Systems and Operational Procedures Reference Manual packed with valuable information on maintaining and operating your Twin Cessna.