

The Twin Cessna Flyersm



Engine & Systems Seminar

When: February 18 – 21, 2010

Where: Lakeland, FL Airport (LAL)



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 in sunny Lakeland, FL on February 18-21 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.

Engine Seminar Feb. 18-19

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.

Systems Seminar Feb. 20-21

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

Benefits include:

- 14 hours of classroom instruction for each seminar
- Hands on instruction with actual aircraft parts
- A detailed Training Manual & Reference Guide

Cost: \$545 for either seminar or \$900 for both. Rooms are available just across the street at the Hilton Garden Inn. Parking for your airplane available through Columbia Air Services.

**To Register: Fill out and Fax or Mail attached Registration Form – or
Call 704-910-1790.**

Engine Seminar – Detailed Agenda

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

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.

Systems & Operational Procedures Seminar – Detailed Agenda

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

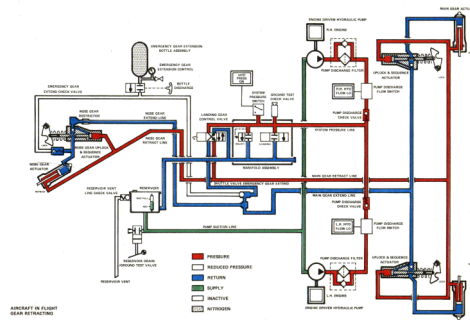
7. Type Certificate Data

- 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.

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

Seminar Logistics

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.

Lakeland, FL (LAL)

Where?
Columbia
Air



When?

Feb 18th through 21st, 2009. Thursday and Friday the 18th and 19th will be the Engine Maintenance and Operational Procedures Seminar. Saturday and Sunday the 20th and 21st will be the Systems 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 but we have arranged for a block of rooms at the **Hilton Garden Inn** Lakeland. This hotel is a very short walk from our seminar location. Our discounted room rate is \$95/night. Call the Hilton directly to reserve you room now: (863) 647-0666



If you fly in, you won't need a rental car as the hotel is just across the street from our meeting room at the airport. When you make your reservation, be sure to tell them you are with The Twin Cessna Flyer group.

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 Lakeland!

Registration Deadline is January 18th.

Seminar Registration Form

The Twin Cessna Flyersm

P.O. Box 12453 Charlotte, NC 28220

(704) 749-910-1790 - FAX (801) 515-8354 – editor@twinessna.org

I would like to attend the following seminars to be held at the Lakeland Airport in Lakeland, FL . (Check one)

- | | |
|---|----------|
| <input type="checkbox"/> Twin Cessna Engine Seminar Feb. 18 -19, 2009 | \$545.00 |
| <input type="checkbox"/> Twin Cessna Systems Seminar Feb. 20 – 21, 2009 | \$545.00 |
| <input type="checkbox"/> Both Seminars Feb. 18 – 21, 2009 | \$900.00 |

_____/_____/_____(____)_____-_____
Name Membership # Phone

_____/_____/_____/_____
Address City ST. Zip Code

_____/_____/_____
Aircraft Model Serial Number N Number

Please enclose your check payable to The Twin Cessna Flyer for the proper amount for the courses you've selected, or fill out the credit card information below:

_____/_____/_____/_____/_____
Visa MC Disc Amex Credit Card Number

_____-_____/_____/_____
Exp. Date Name on card Signature

If you own a twin Cessna, please fill out the aircraft model, serial number and N number blocks. Payment must be received to confirm your attendance. Registrations will close January 25th and you may cancel for a refund less a \$50.00 registration fee prior to February 4th.

You may fax or mail your registration to the number/address shown above.

_____ For Office Use Only _____

_____/_____/_____
Check Number Amount Credit Card Approval Number