

Cessna 172N Systems

© CFI Bootcamp - 2025

Fuel System

Gravity Fed

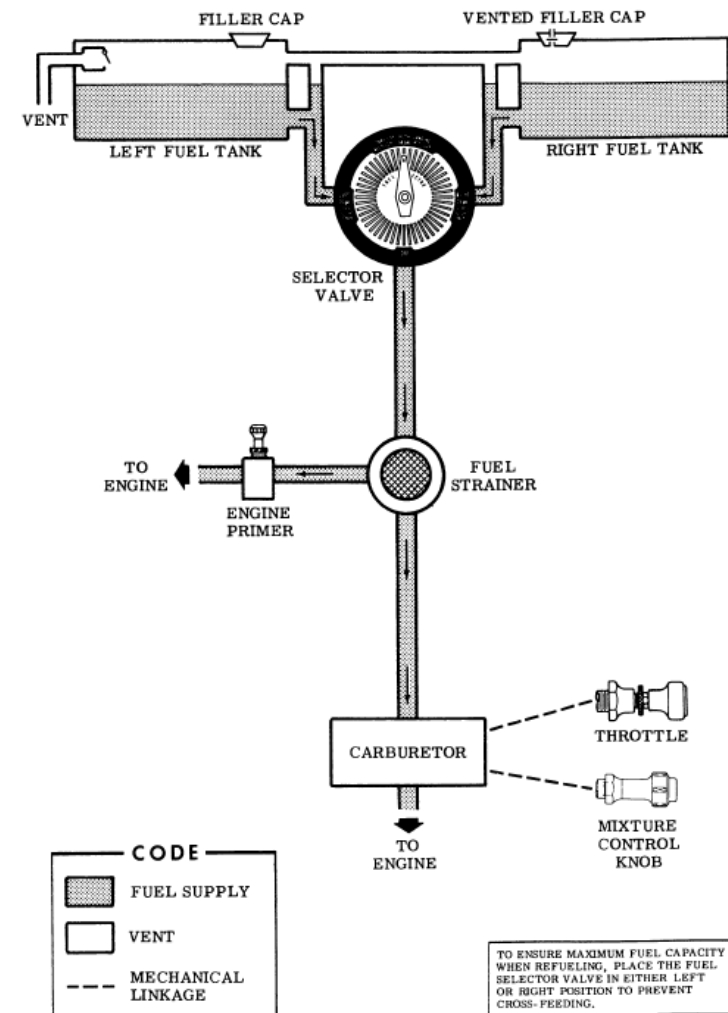
3 fuel drain point

43 gal total – 40 gal usable

Lowest fuel grade - 100

CESSNA
MODEL 172N

SECTION 7
AIRPLANE & SYSTEMS DESCRIPTIONS



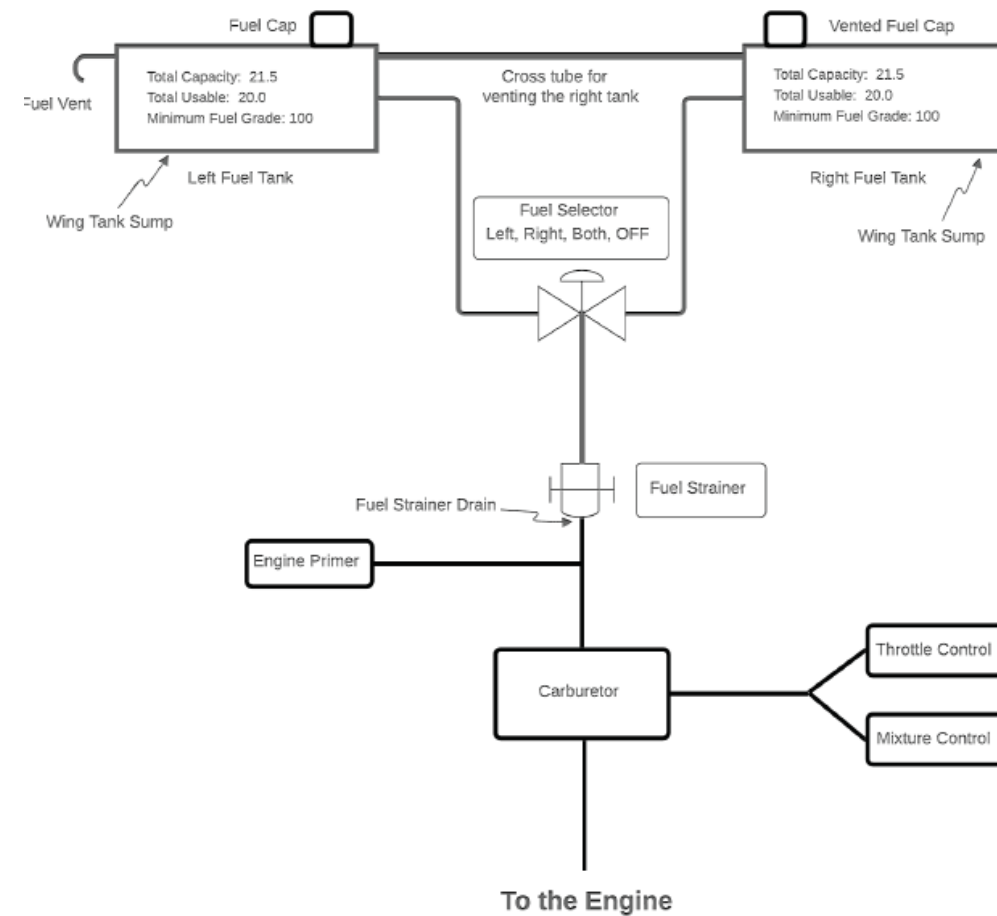
Fuel System

Gravity Fed

3 fuel drain point

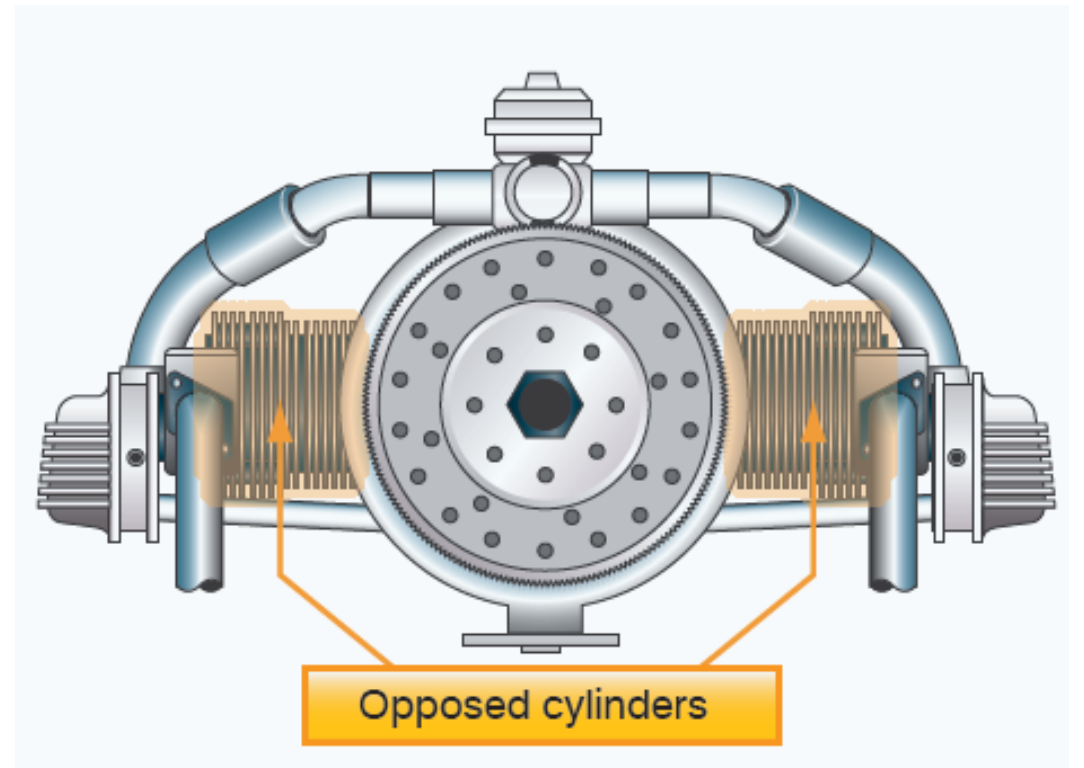
43 gal total – 40 gal usable

Lowest fuel grade - 100



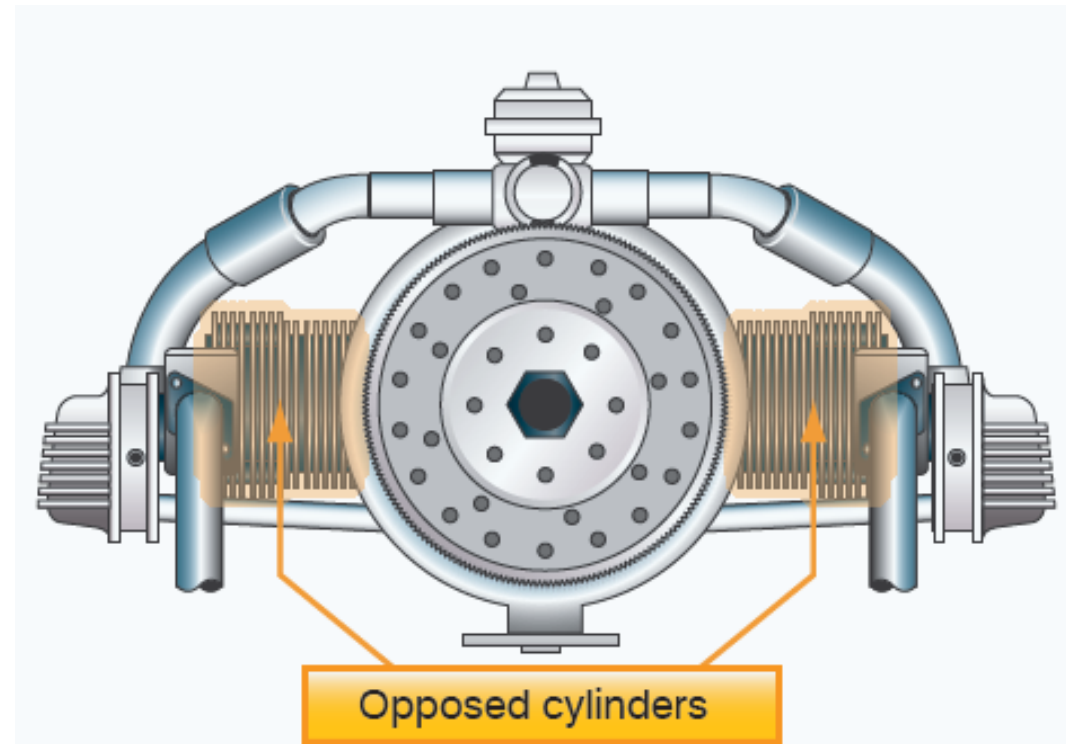
Engine System

- Horizontally Opposed 4 Cylinder Engine
- Air cooled
- Lycoming O-320-H2AD
- 160hp at 2700 RPM
- Ignition is via two Magnetos

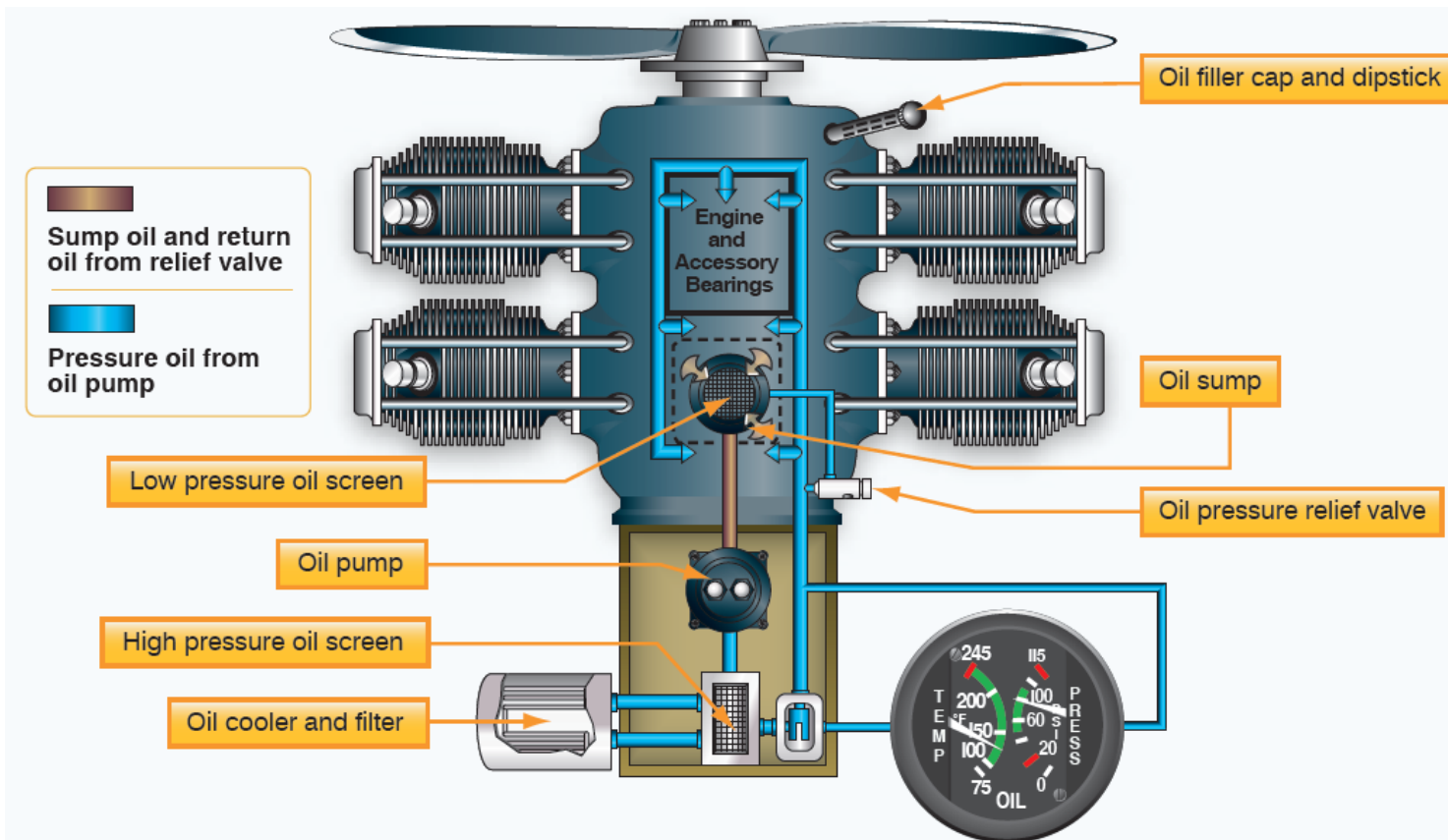


Engine System

- Induction system – Air through a filter
- Exhaust manifold to outside air
- Heater is a shroud around the manifold
- Updraft type carburetor
- Primer for cold starting
- Cooling through air directed by the spinner through baffles over the cylinders



Oil System



- Wet Sump System
- Capacity – 6 Qts.
- Minimum – 4 Qts.
- For flights under 3 hours – 5 Qts. Recommended
- For flights over 3 hours – 6 Qts. Recommended

Type of Oil and Grades and Viscosity

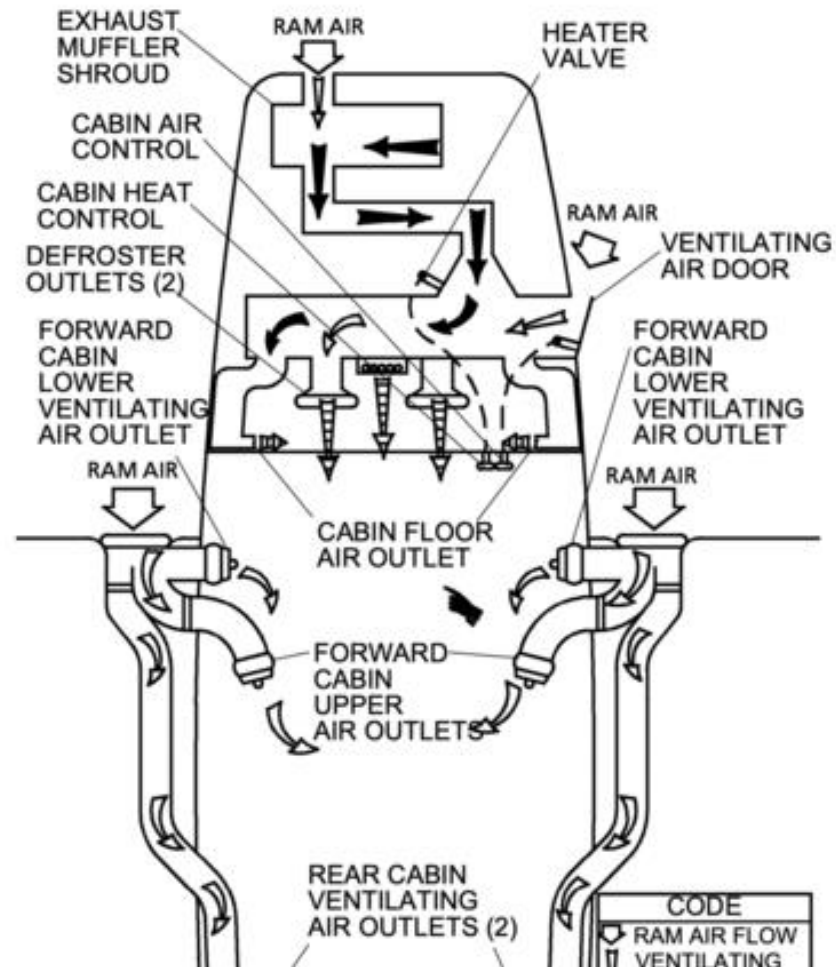


- MIL-L-22851 Ashless dispersant oil
- SAE 40 or 50 above 16C
- SAE 40 between -1C and 32C
- SAE 30 or 40 between -18C and 21C
- SAE 30 below -12C

Cabin Heating, Ventilating and Defrosting System

SECTION 7 AIRPLANE & SYSTEMS DESCRIPTION

CESSNA
MODEL 172R

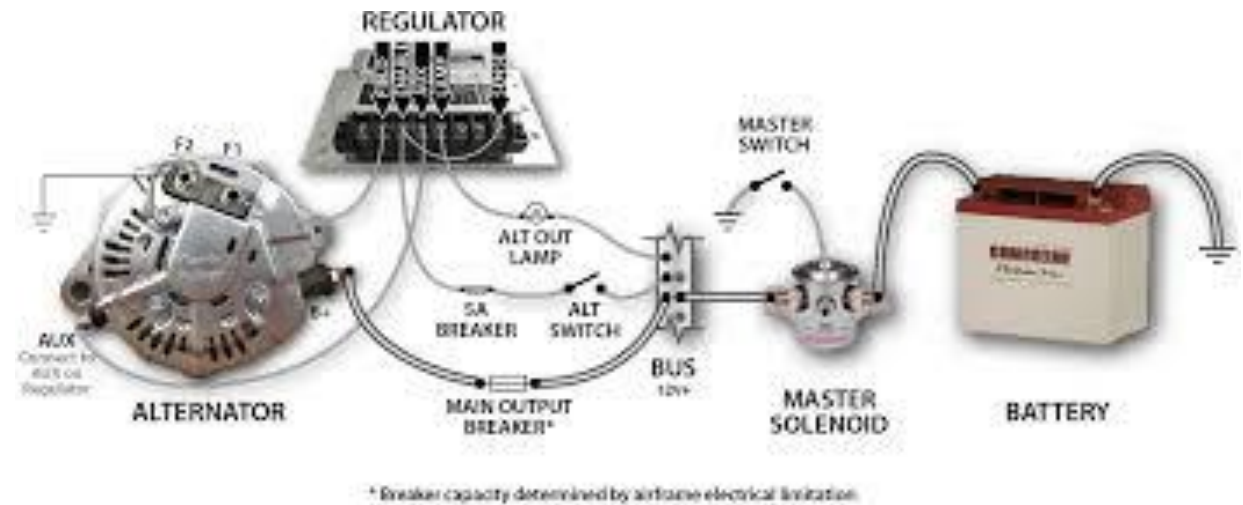


Electrical Systems

[Basic Electricity for Pilots](#)

[How it works from AOPA](#)

[Simple Overview of Electrics used in small Airplanes](#)



Electrical System

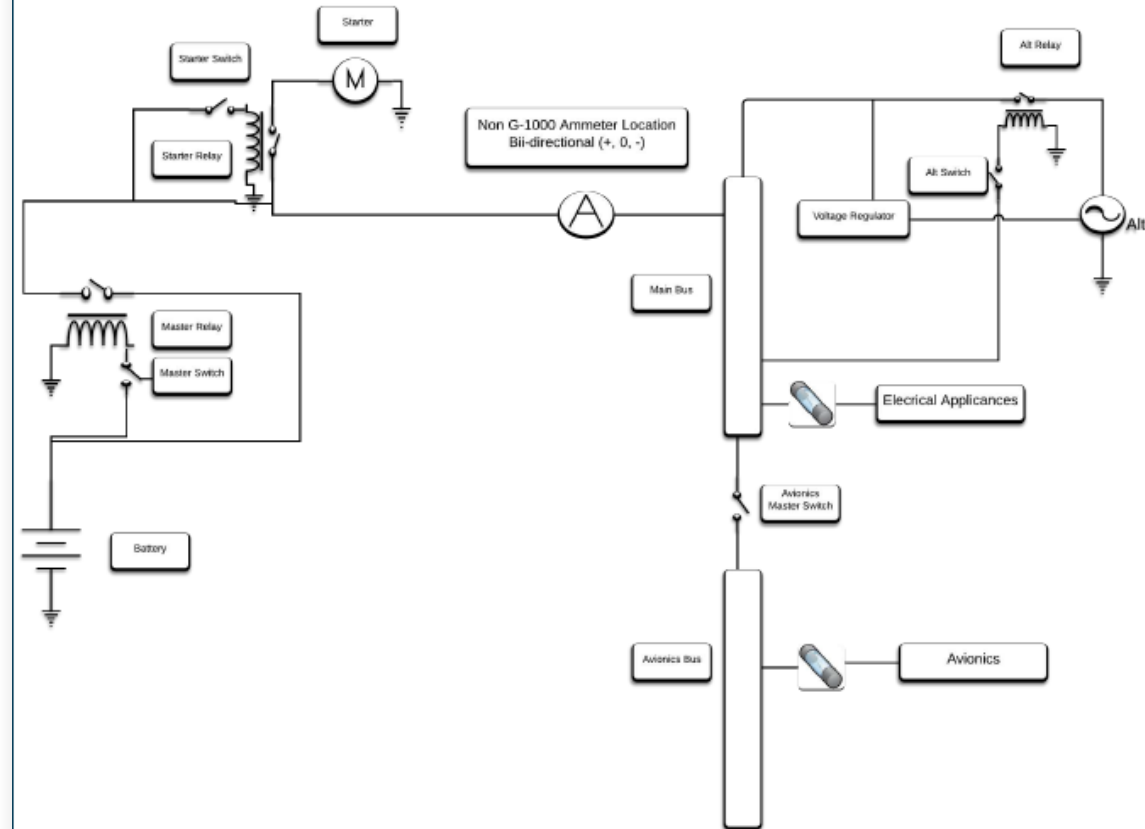
28V DC system

28V - 60A Alternator

24V – 14A/Hr. or 17A/Hr. battery

Main bus and Avionics bus

Electrical System Simplified



Electrical System

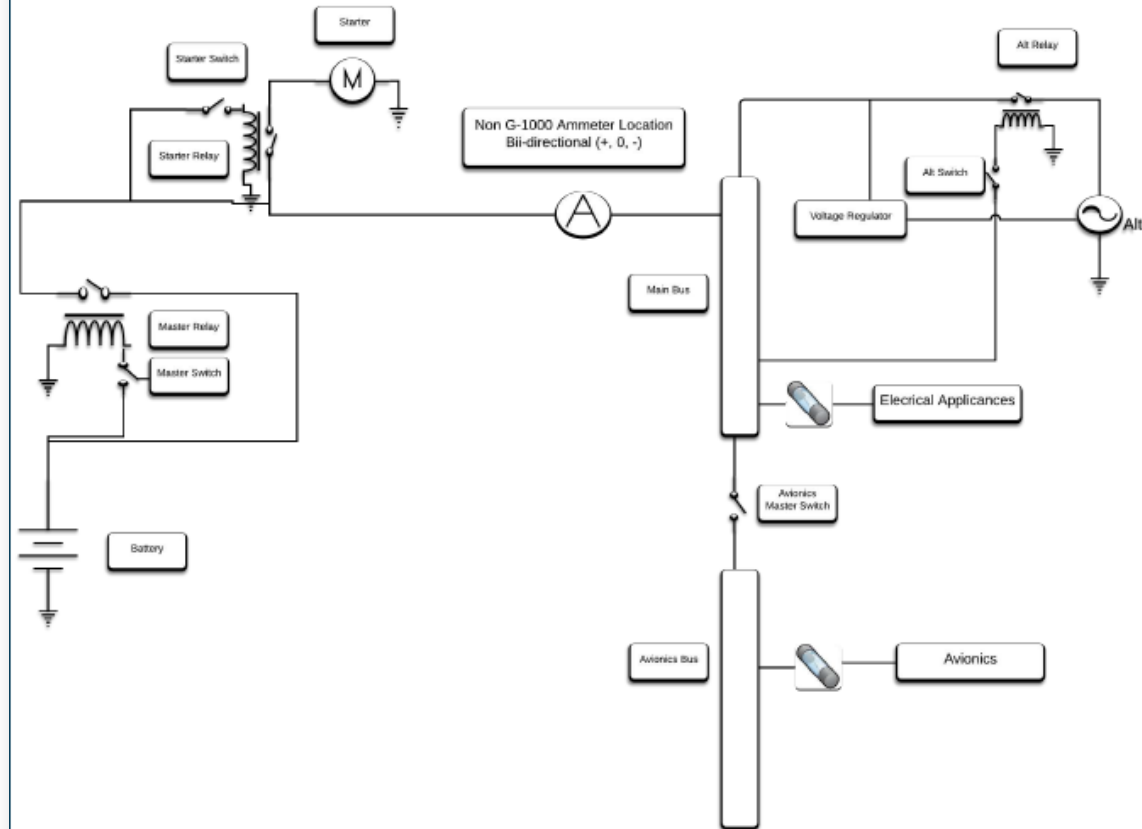
Master Switch

Avionics Power Switch

Ammeter

Over-Voltage Sensor and Warning Light

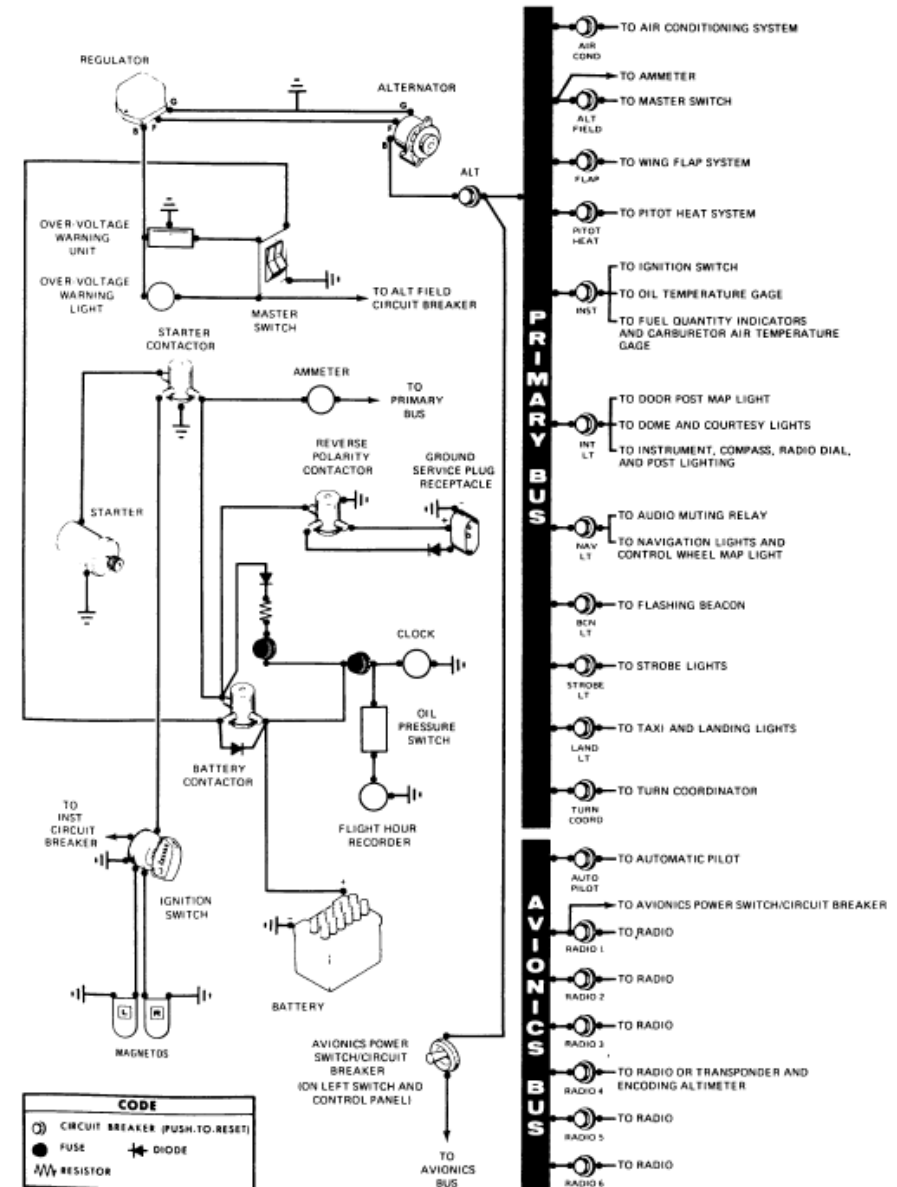
Electrical System Simplified



Electrical System

Circuit breakers and Fuses

Ground service plug receptacle



Preview the Private Pilot ACS Training System

Get a firsthand look at the structured training system that's helping pilots master every Area of Operation and Task in the **FAA Private Pilot Airman Certification Standards (ACS)**.

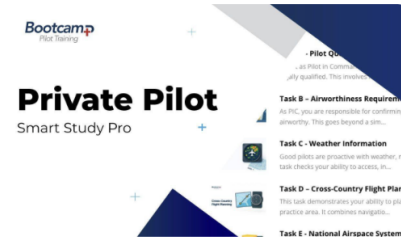
This *free preview* gives you guided access to select lessons, visuals, and examples straight from the full program — so you can see how clear, organized, and effective CFI Bootcamp training really is.

What You'll Experience Inside the Preview

- **A Step-by-Step Breakdown** – See how we simplify each ACS Area of Operation and Task into clear, instructor-style explanations.
- **Real-World Examples** – Understand how ACS standards translate into practical flying situations and examiner expectations.
- **Checkride-Focused Guidance** – Learn the type of detail, flow, and clarity examiners look for during your oral and flight test.
- **Interactive Learning Approach** – Preview how we combine structure and simplicity to make even complex topics easy to master.

Preview Private Pilot Smart Study Pro

Free



Contact

Email

☐ Subscribe to our email list

Preview Now

All of the
Power Hours
Included

Basic
Free

Top features

- ✓ Flight Training the Way I See it - Podcast
- ✓ Weekly Short Subject Videos
- ✓ Private Pilot Ground School | Video Course
- ✓ Selected Power Hour Lessons
- ✓ Bootcamp + | Networking Community

JOIN NOW

Advanced
22.00/monthly

Top features

- + Flight Training the Way I See it - Podcast
- + Weekly Short Subject Videos
- + Private Pilot Ground School | Video Course
- + Bootcamp + | Networking Community
- + Power Hour Lessons
- + Focused Training Resources
- + Tribal Knowledge videos

JOIN NOW

Pro
24.99/monthly

Most Popular Billed Annually

- ★ Flight Training the Way I See it - Podcast
- ★ Weekly Short Subject Videos
- ★ Private Pilot Ground School | Video Course
- ★ Bootcamp + | Networking Community
- ★ Power Hour Lessons
- ★ Focused Training Resource
- ★ Tribal Knowledge videos
- ★ Always Updated CFI Essentials
- ★ Exclusive Offers

JOIN NOW