

Chapter 1
General

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Introduction

This manual is designed as a training tool for operation of the Cessna 172 training aircraft. However, it is not intended as a substitute for adequate and competent flight instruction, pilot knowledge of current airworthiness directives, applicable Federal Aviation Regulations (FARs) or Advisory Circulars (ACs). The manual is a procedural manual for operation of the Cessna 172R aircraft when conducting flight training within the Bridgewater State College flight training program, and as such must be kept in current status. It is to be used in conjunction with the manufacturer's Pilot's Operating Handbook (POH).

This chapter includes depictions of the aircraft and basic dimensions. Also included are descriptions of the aircraft electrical system and a depiction of the circuit breaker layout. These depictions may not be reprinted or copied for any use other than BSC flight training operations without written permission from Bridgewater State College Flight Operations.

Aircraft Dimensions

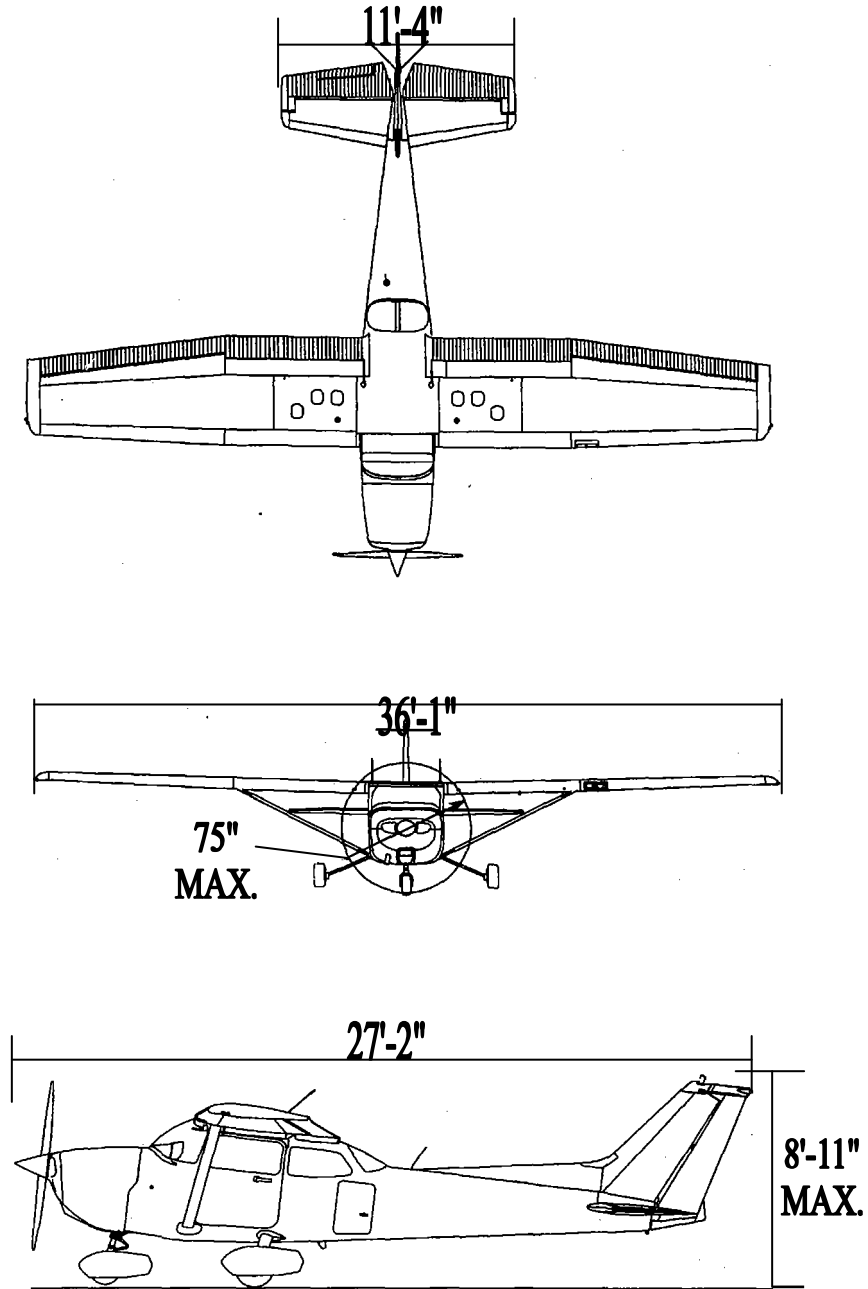


Figure 1-1
THREE VIEW DRAWING
(Not to scale)

NOTE

Wing span measurement includes strobe light installation.

NOTE

Wheel base length: 65". Minimum turn radius from pivot point to outboard wingtip: 27'-5 1/2".
Propeller ground clearance: 11 1/4".

NOTE

The aircraft's normal ground attitude is tail-low with the nose strut showing approximately 2" of oleo, and wings level.

Electrical System

System.....28 Volt, DC
 Battery.....24V
 Alternator.....60 Amp, engine/belt-driven

NOTE

Minimize use of electrical equipment on the ground to reduce excessive battery power loss.

Annunciator Panel

The annunciator light panel contains amber (caution) and red (warning) indications for various airplane systems. Annunciators will flash initially for ten (10) seconds, then remain on. Although the annunciator panel lights can be tested using the toggle switch to the upper right of the panel, and their intensity adjusted, the panel cannot be turned off.

Annunciator Lights:

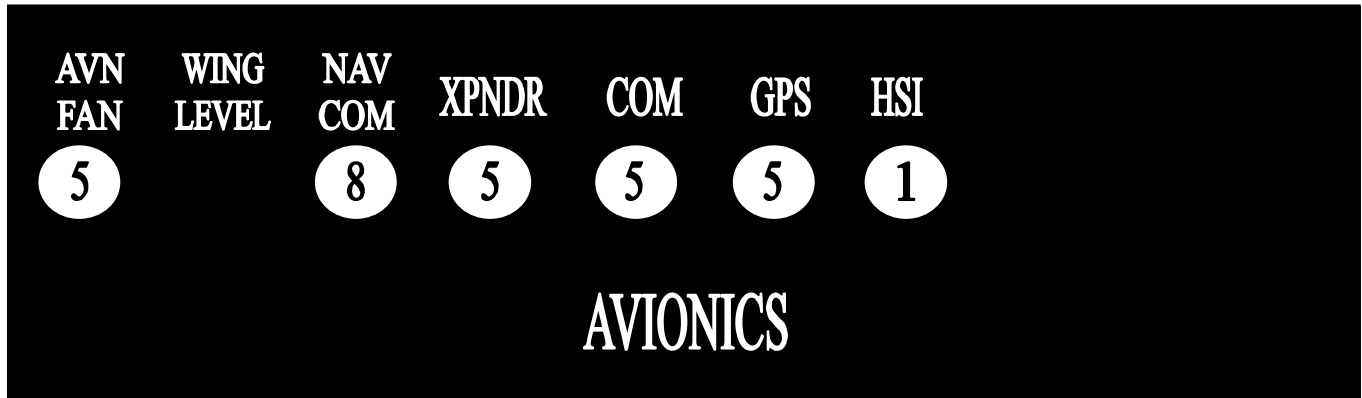
- ⊕ Fuel Transmitter (one per tank)
- ⊕ Low Oil Pressure
- ⊕ Vacuum (one per pump)
- ⊕ Alternator Control Unit

NOTE

During initial start-up, the OIL PRESS and LVAC (L/R) annunciators will come on for approximately 10 seconds, then remain on until the airplane systems are operating in normal range.

Circuit Breaker Layout

Avionics Circuit Breaker Panel



Lower Circuit Breaker and Switch Panel

