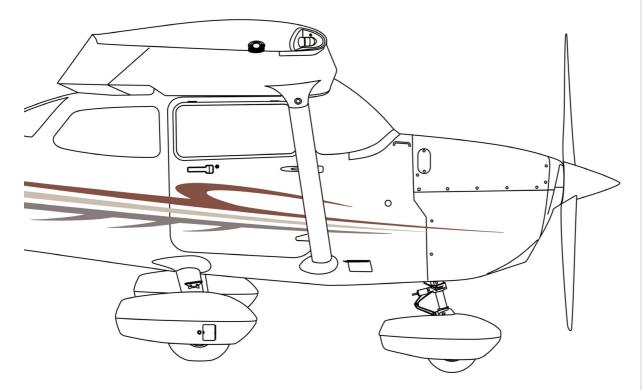
SKYHAWK

MODEL 172R



Specification & Description

Initial _____

Exhibit "A"

March 2011 Beginning With Serial # 17281579





SPECIFICATION AND DESCRIPTION EXHIBIT "A"

MARCH 2011

BEGINNING WITH SERIAL # 17281579

Cessna Single Engine Piston Aircraft 2625 S. Hoover Rd. Wichita, Kansas 67215



March 2011

INTRODUCTION _

This document is published for the purpose of providing general information for the evaluation of design, performance and equipment of the Cessna Skyhawk. Should more information be required, please contact:

Cessna Aircraft Company Single Engine Piston Aircraft 2625 S. Hoover Rd. Wichita, Kansas 67215 1-800-4-CESSNA www.se.cessna.com

This document supersedes all previous Specification and Description documents and describes only the Skyhawk Model 172R, its powerplant and equipment. Also included are the warranties applicable to the Skyhawk Model 172R aircraft, the Textron Lycoming IO-360-L2A engine, the McCauley propeller and the OEMinstalled Bendix/King and Garmin avionics. In the event of any conflict or discrepancy between this document and the basic purchase agreement, the basic purchase

agreement language shall govern. Due to the time span between the date of this Specification and Description and the scheduled delivery date of the aircraft, Cessna reserves the right to revise the "Specification" whenever occasioned by product improvements, government regulations or other good cause.

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1. GENERAL DESCRIPTION_

All information herein applies to the Skyhawk (Model 172R). The Skyhawk aircraft is an all-metal, single-engine piston, high-wing monoplane with a four-person seating capacity including a crew of one or two. Suitable allowance for luggage is provided.

1.1 Certification

The Model 172R is certified to the requirements of U.S. FAA Federal Aviation Regulation Part 23 through amendment 23-6, including day, night, VFR and IFR.

1.2 Approximate Dimensions

Overall Height	8 ft 11 in (2.72m)
Overall Length	27 ft 2 in (8.28m)
Wing	
Span (overall)	
Area	174 sq ft (16.2sq m)
Cabin	
	40 :- (4 00)
Height (max)	
Width (trim to trim)	
Length (firewall to aft baggage bulkhead)	
Cabin Door	
Height (front)	
Height (front) Height (rear) Width (top) Width (bottom)	
Height (front) Height (rear) Width (top) Width (bottom) Baggage Door	

1. GENERAL DESCRIPTION (Continued)

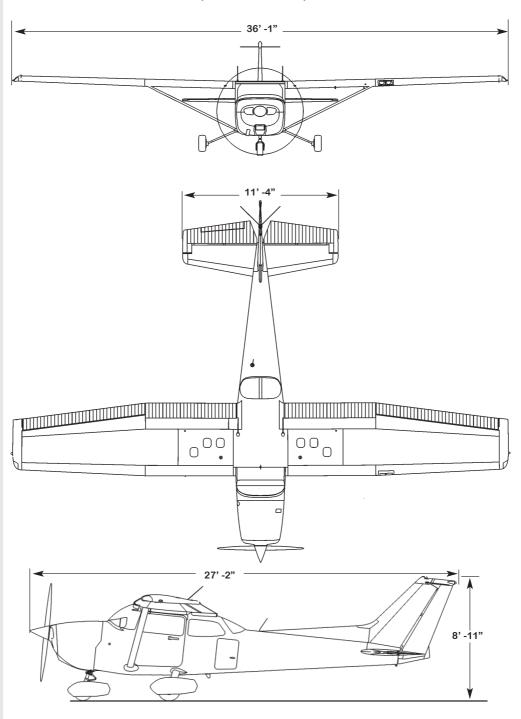
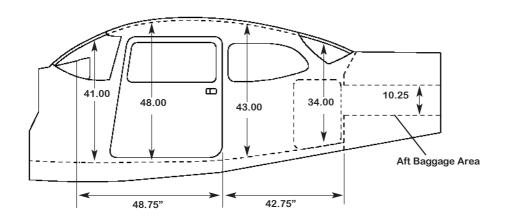
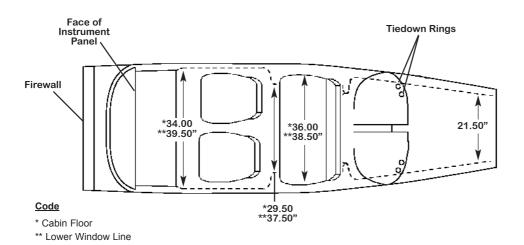


FIGURE I — SKYHAWK EXTERIOR DIMENSIONS

1. GENERAL DESCRIPTION (Continued)-



Cabin Height Dimensions



Cabin Width Dimensions

1. GENERAL DESCRIPTION (Continued)
1.3 Design Weight and Capacities
Ramp Weight Normal Category
Takeoff Weight Normal Category
Landing Weight Normal Category
Standard Empty Weight ¹
Maximum Useful Load Normal Category
Baggage Allowance Normal Category
Fuel Capacity .56 gal (212 L) Total Useable .53 gal (200.6 L) Total Capacity each Tank .28 gal (106 L) Total Useable Capacity each Tank .26.5 gal (100.3 L)
Oil Capacity .8 qts (7.6 L) Total Capacity .9 qts (8.5 L)

NOTES

- Standard empty weight based upon:
 a) 0.6-mil primer on all details, 0.6-mil primer on all exterior surfaces and 2.0-mil paint on all exterior surfaces.
 - b) GA Avionics Package
- 2. Total oil capacity is with 8 qts. in sump and 1 qt. in oil filter.

2. PERFORMANCE —

All estimated performance data are based on airplane weights at 2,450 pounds; standard atmospheric conditions; level, hardsurface, dry runways; and no wind. They are calculated values derived from flight tests con-

ducted by Cessna Aircraft Company under carefully documented conditions and will vary with individual airplanes, pilots, and numerous other factors affecting flight performance.

Service Ceiling
Takeoff Distance S.L. (Ground Roll)
Takeoff Distance S.L. (To Clear 50ft. Obstacle)
Max Climb Rate S.L
Max Speed S.L
Max Range and Endurance
Cruise Speed (80% pwr at 8,000 ft)
Cruise Range and Endurance (80% pwr at 8,000 ft)
Landing Distance (Ground Roll)
Landing Distance (Ground Non)

3.POWERPLANT & ACCESSORIES_

- Lycoming IO-360-L2A Engine
- 160 HP @ 2400 RPM
- Certified for 100LL & 100 Fuel
- Fuel Injection System
- Tubular Steel Engine Mount
- Dynafocal Rear Mount
- Engine Driven Vacuum Pump
- Automatic Alternate Engine Air
- Oil Cooler
- Shock Mounted Cowling
- Induction Air Filter
- Full Flow Oil Filter
- Throttle Control
- Vernier Mixture Control
- Dual Ignition System, Shielded Magneto
- Engine Exhaust Muffler
- McCauley Fixed Pitch 2 Blade Metal Propeller
- Propeller Spinner, Painted
- Electric Starter

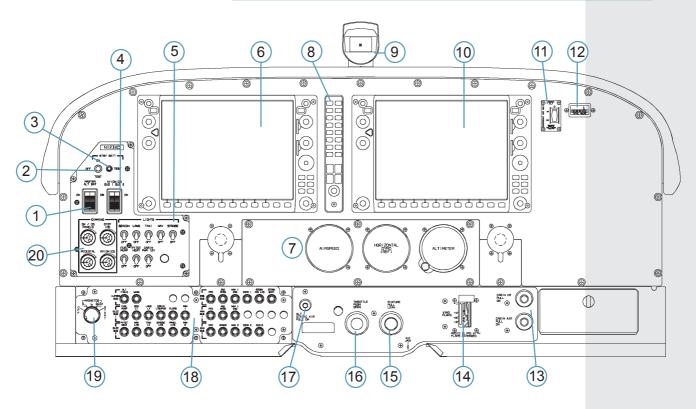
4. SKYHAWK EQUIPMENT LIST.

The following list of equipment is included on the standard aircraft with the GAAvionics Package and does not reflect optional equipment.

GA Avionics Package

- GMA-1347 Digital Audio Panel with Marker Beacon/Intercom
- GTX-33 Transponder-Mode S w-TIS
- GIA-63W NAV/COM/GPS/WAAS with GS #1
- GIA-63W NAV/COM/GPS/WAAS with GS #2
- GDU-1040 Primary Flight Display (PFD)
- GDU-1040 Multi-Function Display (MFD)
- GEA-71 Engine/Airframe Computer
- GRS-77 AHRS
- GDC-74A Air Data Computer with OAT Probe
- GMU-44 Magnetometer
- Garmin SafeTaxi & FliteCharts
- Electronic Checklists
- ME406 Two Frequency Emergency Locator Transmitter
- Emergency Locator Transmitter Remote Mounted Switch
- Backup Attitude Gyro, Altimeter and Airspeed Indicator
- Control Wheel Push-To-Talk Switch-Pilot/Copilot
- Mic & Phone Jacks-Pilot/Copilot/Passengers
- Auxiliary Stereo Input Jack
- Antennas:
 - · Marker Beacon Antenna
 - Transponder Antenna
 - VHF/GPS Antenna (2)
 - NAV Antenna
 - Emergency Locator Transmitter External Antenna
- Pitot System Heated
- Static System
- Hand Held Microphone
- Alternate Static Source
- Compass

5.INSTRUMENT PANEL



- 1. MASTER Switch (ALT and BAT)
- 2. STBY BATT Switch
- 3. STBY BATT Test Annunciator
- 4. AVIONICS Switch (BUS 1 and BUS 2)
- 5. Electrical Switches
- 6. GDU-1040 Primary Flight Display
- 7. Backup Attitude Gyro, Airspeed & Altimeter Indicator
- 8. GMA-1347 Audio Panel
- 9. Backup Compass
- 10. GDU-1040 Multi-Function Display
- 11. ELT Remote Switch/Annunciator

- 12. Flight Hour Recorder (Hobbs Meter)
- 13. Cabin Air Control
- 14. Wing Flap Switch Lever And Position Indicator
- 15. Mixture Control
- 16. Throttle (With Friction Lock)
- 17. ALT Static Air Valve Control
- 18. Electrical and Avionics Circuit Breakers
- 19. Ignition/Starter Switch, Key Operated
- 20. Dimming Panel

6. ELECTRICAL POWER -

- Alternator, 28 Volt, 60 Amp
- Battery, 24 Volt, 8.0 AH (1 hr rate), Manifold Type
- Standby Battery, 24 volt, 6.2 AH (1 hr rate), Sealed Type
- Standby Battery Controller
- Electrical Circuit Panel
 - Alternator/Battery Master Switch
 - · Split Avionics Master Switch
 - · Circuit Breakers, Electrical
 - · Switches, Electrical

- Electrical J-Box
 - Alternator Control Unit
 - · Ground Service Receptacle
 - · Battery Current Sensor
 - Starter Relay
 - Alternator Relay
 - · Battery Relay
 - Ground Power Relay
 - · Bus Circuit Protection
- Cabin Power Jack 12 Volt, 10 Amp

7. ENGINE INDICATING SYSTEM (ELECTRONIC)_

- Ammeters
- Voltmeters
- Vacuum
- Oil Pressure and Temperature
- Tachometer Hour Recorder
- Fuel Flow (GPH)
- LH/RH Fuel Quantity

- CHT Cylinder Head Temperature
- EGT Exhaust Gas Temperature
- Backup Single Pump Vacuum System
- Annunciation Caution and Warning Alerts (PFD)

8. ENVIRONMENTAL

- Windshield Defroster, Pilot/Copilot
- Ventilator, Adjustable (6 places)
- Heating System, Shrouded Muffler with Firewall Valve
- Soundproofing
- Carbon Monoxide Detection System

9. EXTERIOR _

- Epoxy Corrosion Proofing, All Structure
- LH Door, Pilot with Hinged Window, Lock and Key
- RH Door, Copilot with Hinged Window
- LH Baggage Door, with Lock and Key
- Rear Window
- All Windows Tinted
- Gear Jack Pads
- Fixed Landing Gear
- White Polyurethane Exterior Paint
- Refueling Steps and Handles, Wing Struts and Fuselage

- Fixed Cabin Entrance Steps
- Tie Down Rings, LH/RH Wing & Tail and Nose
- Tube Type Tires
 - Nose 5.00 X 5
 - Mains 6.00 X 6
- Conical Camber Wing Tips
- Strut Braced, Camber Lift Wings
- Static Wicks

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10. EXTERIOR LIGHTS —

- LED Ground Recognition Beacon Vertical Tail
- LED Navigation, LH/RH Wing Tip & Vertical Tail
- Wing Tip Navigation Light Detectors, LH/RH
- Wing Tip Strobe, LH/RH
- Dual Wing LED Landing and Taxi Lights with integrated Pulse Recognition Technology
- Underwing Courtesy, LH and RH Wing

11. FLIGHT CONTROLS.

- Hydraulic Brakes, Toe-Operated
- Parking Brake
- Stainless Steel Control Cables
- Pilot/Copilot All Purpose Control Wheels
- Pilot control wheel
- Electrical Preselect Flaps
- Dual Flight Controls -Aileron/Elevator/Rudder
- Steerable Nose Wheel

- Aileron and Elevator Control Lock
- Elevator Trim

12. FUEL SYSTEM _

- Electric Auxiliary Fuel Pump
- Engine Driven Fuel Pump
- Integral Fuel Tanks, 53 Gal. Usable
- Fuel Selector Valve, Left/Both/Right
- Fuel Shutoff
- Fuel Strainer, Incorporated with Fuselage Quick Drain
- Fuel Tank Quick Drain, 5 per wing

- Fuel Sampler Cup
- Fuel Return System