

### **Specification and Description**

**Dated January 2007** 

**Beginning With Serial #18281876** 

**Manufacturer: Cessna Aircraft Company** 

Model: 182T





# The Cessna 182T Skylane

#### Introduction

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

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This document supersedes all previous Specification and Description documents and describes only the Skylane Model 182T, its powerplant and equipment. Also included are the warranties applicable to the Skylane Model 182T aircraft, the Textron Lycoming IO-540-AB1A5 engine, the McCauley propeller and the OEM-installed 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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#### **General Description**

All information herein applies to the Skylane (Model 182T).

The Skylane 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. The Model 182T is certified to the requirements of U.S. FAA Federal Aviation Regulation Part 23 through amendment 23-6, including day, night, VFR and IFR.

#### **Approximate Dimensions**

### Overall Height (max) 9'4" (2.84 m) Overall Length 29' (8.84 m) Wing Span (overall)\_\_\_\_\_\_36' (10.97 m) Area\_\_\_\_\_174 sq ft (16.2 sq m) Cabin Height (max) 48.5" (1.23 m) Length (firewall to aft baggage area) 134" (3.40 m) Width 42" (1.07 m) Cabin Door Height (front) 41" (1.04 m) Height (rear) \_\_\_\_\_\_38.5" (.98 m) Width (top) 32" (.81 m) Width (bottom) 36.5" (.93 m) Baggage Door Height (front) 22" (.56 m) Height (rear) 20.5" (.52 m) Width 15.8" (.40 m)

#### **Design Weights and Capacities**

Maximum Ramp Weight	3,110 lbs (1,411 kg)
Maximum Takeoff Weight	3,100 lbs (1,406 kg)
Maximum Landing Weight	2,950 lbs (1,338 kg)
Standard Empty Weight	1,997 lbs (906 kg)
Maximum Useful Load	1,113 lbs (505 kg)
Baggage Allowance	200 lbs (91 kg)
Fuel Capacity Total capacity Total usable Total capacity each tank Total usable capacity each tank	87 gal (329.3 L) 46 gal (174.1 L)
Oil Capacity Sump Total Capacity	8 qts (7.5 L) 9 qts (8.5 L)

#### **Skylane Equipment List**

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

#### **NAV III AVIONICS:**

GDU-1044B Primary Flight Display (PFD)

GDU-1044B Multi-function Display (MFD)

GMA-1347 Digital Audio Panel w/Marker Beacon/Intercom

Marker Beacon Antenna

GIA-63W NAV/COM/GPS/WAAS w/GS #1

GIA-63W NAV/COM/GPS/WAAS w/GS #2

VHF/GPS Antenna

VHF/GPS/XM Antenna

NAV Antenna

GTX-33 Transponder - Mode S w/TIS

Transponder Antenna

GEA-71 Engine/Airframe Computer

- CHT/EGT Sensors All Cylinders
- Fuel Flow Meter
- Manifold/Tachometer/Vacuum Sensors

**GRS-77 AHRS** 

GDC-74 Air Data Computer w/OAT Probe

**GMU-44 Magnetometer** 

GFC – 700 Autopilot

- · Go Around Switch
- Control Wheel Steering

ME406 Two Frequency Emergency Locator Transmitter

GDL-69A Flight Information System (FIS) w/XM Radio

**Emergency Locator Transmitter External Antenna** 

**Emergency Locator Transmitter Remote Mounted Switch** 

WX-500 Stormscope

NY-163 Stormscope Antenna

Auxiliary Stereo Input Jack

Avionics Circuit Breaker Panel

Control Wheel Push-To-Talk Switch - Pilot/Copilot

Mic & Phone Jacks - Pilot/Copilot/Passengers

Auxiliary Stereo Input Jack

Single Engine Driven Vacuum Pump System

**Backup Mechanical Instruments** 

- Attitude (Vacuum Gyro)
- Airspeed
- Altimeter

Magnetic Compass

Pitot System - Heated

Static System

Alternate Static Source

Audible Stall Warning System - Heated

#### **ELECTRICAL POWER:**

Alternator, 28 Volt, 95 Amp

Battery, 24 Volt, 15.5 AH, Manifold Type

Standby Battery, 24 volt 6.2 AH

Standby Battery Controller

**Electrical Circuit Panel** 

- Ignition & Starter Switch, Key Operated
- Alternator/Battery Master Switch
- Split Avionics Master Switch
- Circuit Breakers, Electrical
- Switches, Electrical

#### Electrical J-Box

- Alternator Control Unit
- Battery Current Sensor
- Ground Service Receptacle
- Starter Relay
- Alternator Relay
- Battery Relay
- Ground Power Relay

Auxiliary Power Jack -12 Volt (fore & aft)

#### **ENGINE INDICATION SYSTEM (ELECTRONIC)**

Ammeter

Voltmeter

Vacuum

Manifold Pressure

Oil Pressure and Temperature

Tachometer - Hour Recorder

Fuel Flow (GPH)

LH/RH Fuel Quantity

CHT - Cylinder Head Temperature

EGT - Exhaust Gas Temperature

Flight Hour Recorder

**Electronic Checklists** 

#### **ANNUNCIATION – CAUTION AND WARNING ALERTS (PFD)**

- •LH & RH Low Fuel
- Low Vacuum
- ·Low Oil Pressure
- Low Voltage
- Standby Battery
- Pitch Trim
- Self Test Message Advisories
- Traffic (standard TIS)

#### **ENVIRONMENTAL:**

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

#### **EXTERIOR:**

Epoxy Corrosion Proofing, All Structure LH Door, Pilot w/Hinged Window, Lock and Key RH Door, Copilot w/Hinged Window Baggage Door, w/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

**Tube Type Tires** 

- •Nose 5.00 X 5
- •Mains 6.00 X 6

Conical Camber Wing Tip

Strut Braced, Camber Lift Wings

Static Wicks

#### **EXTERIOR LIGHTS:**

Ground Recognition - Vertical Tail, Reduced Drag

Navigation, LH/RH Wing Tip & Tail

Navigation Light Detectors, LH/RH

Wing Tip Strobe, LH/RH

High Intensity Discharge (HID) Landing and Taxi Lights, LH Wing

HID Electronic Ballast

Underwing Courtesy, LH/RH

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#### **FLIGHT CONTROLS:**

Hydraulic Brakes, Toe-Operated

Parking Brake

Stainless Steel Control Cables

Dual Flight Controls - Aileron/Elevator/Rudder

Leather Wrap Control Wheels, All Purpose Pilot/Copilot

Pilot Control Wheel

- Pitch Trim
- AP Disconnect
- Control Wheel Steering

Elevator Trim - Manual/Electric

Rudder Trim - Manual

Electrical Preselect - Flaps

Steerable Nose Wheel

Aileron and Elevator Control Lock

#### **FUEL SYSTEM:**

Electric Auxiliary Fuel Pump

Engine Driven Fuel Pump

Integral Wet Wing Fuel Tanks, 87 Gal. Usable

Fuel Selector Valve, Left/Both/Right/Off

Fuel Strainer, Incorporated with Fuselage Quick Drain

Fuel Tank Quick Drain, 5 per wing

Fuel Sampler Cup

Fuel Vapor Return System

#### INTERIOR:

General interior color scheme is Taupe / Charcoal

Kydex door sidepanel, decorative fabric inserts

Leather Seating Surfaces w/ Perforated Leather Insert w/ Vinyl trim

Vinyl grip flooring in crew area

Carpeting in passenger area

Amsafe Inflatable Seat Belts & Shoulder Harness STC, Inertia

Reel, All Seats

Pilot and Copilot Seats

- Adjustable Fore and Aft
- Reclining Backs
- Vertical Adjustment

Rear Seat Bench w/Individual Reclining Back

Cup Holders - Passenger

Jepp Map Storage Console w/Cup Holders

Approach Plate Holder, Pilot Control Wheel

Armrests - Pilot & Copilot Doors/Passenger Side Panels

Pilot's Check List

Pilot's Operating Handbook

Fire Extinguisher, Hand Held

Instrument Panel Glareshield

Clothes Hanger Bar

Metal Instrument Panel, w/Removable Stby Instr. Subpanel

Map/Glove Compartment

Baggage Net

Radio Call Plate

Map & Storage Pockets

Cabin Door Scuff Plates

Rosen Sun Visors, Pilot & Copilot

Tow Bar

#### **INTERIOR LIGHTING:**

LED Pilot/Copilot Cabin Overhead LED Lights

LED Passenger Overhead Light

Interior Lights Dimming Control

Map Light, Pilot Control Wheel

Sub-Panel Lighting (LED Backlighted)

- Flaps
- Throttle
- MixturePropeller
- Environmental Controls (Air and Heat)

Switch Panel Lighting (LED Backlighted)

- Avionics and Master Switches
- Dimming Reostats
- · Landing, Taxi and Nav Switches
- ·Beacon, Strobe, Boost Pump, Pitot Heat
- 12 volt Cabin Power
- Standby Battery Switch

LCD Lighted Glass Panel Displays:

- Electronic Flight Instruments
- Electronic Avionics Instruments
- Electronic Engine Instruments

Audio Panel (Backlighted)

Radio Call Plate (Backlighted)

LED Lighted Circuit Breaker Panel

Compass Internally Lighted

Standby Attitude, Altimeter, Airspeed Internally Lighted

#### **POWER PLANT AND ACCESSORIES:**

Lycoming IO-540-AB1A5 Engine

230 HP @2400 RPM

Certified for 100LL & 100 Fuel

Fuel Injection System

**Tubular Steel Engine Mount** 

Dynafocal Rear Engine Mount

Automatic Alternate Engine Air

Oil Cooler

Rigid - Mounted Cowling

Manual Cowl Flaps

Induction Air Filter

Full Flow Oil Filter

Throttle Control

Vernier Mixture Control

Vernier Propeller Control

Dual Ignition System, Shielded Magneto

**Engine Exhaust Muffler** 

McCauley Constant Speed, 3 Blade Metal Propeller Propeller Governor Propeller Spinner, Polished

Electric Starter

#### **Optional Equipment**

Air Conditioning -Keith Products (STC -12,000 btuh / Engine Driven)

TAWS-B Terrain (Garmin) NAV III Avionics

TAS Traffic (Bendix King KTA 870) - NAV III Avionics

ADF KR87 – NAV III Avionics – Separate control head - displayed on PFD (International only)

DME KN63 – NAV III Avionics – Integrated control - displayed on PFD (International only)

C406-N Three Frequency Emergency Locator Transmitter

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#### **Exterior Striping Options**

**519D:** Ruby Red Pearl and Antique Gold Pearl Painted Stripes; Cessna Logo, Skylane Logo and Registration

Number: All Dark Red Vinyl.

**519E:** Phantom Gray Pearl and Yellow Pearl Painted Stripes; Cessna Logo, Skylane Logo and Registration Number: All Charcoal Metallic Vinyl.

**519F:** Parade Blue Pearl and Cumulus Gray Pearl Painted Stripes; Cessna Logo, Skylane Logo and Registration Number: All Shadow Blue Vinyl.

#### **Interior Options**

Fabric Seat Surfaces w/ Vinyl trim

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#### **Performance Conditions**

All estimated performance data are based on airplane weights at 3,100 pounds; standard atmospheric conditions; level, hard surface, dry runways; and no wind. They are calculated values derived from flight tests conducted by Cessna Aircraft Company under carefully documented conditions and will vary with individual airplanes, pilots, and numerous other factors affecting flight performance.

Speed, CAS  Maximum at sea level	Stall Speed, CAS  • Flaps up, power off 54 kts  • Flaps down, power off 49 kts  Wing Loading 17.8 lbs/sq ft (86.9 kg/sq m)
80% power at 7,000 ftrange 773 nm (1,432 km) 87 gallons usable fueltime 5.4 hr	Power Loading 13.5 lbs/hp (6.1 kg/hp)
55% power at 10,000 ft range 930 nm (1,722 km) 87 gallons usable fuel time 7.60 hr  Rate of Climb at Sea Level 924 fpm (282 mpm)  Service Ceiling 18,100 ft (5,517 m)	Engine: Lycoming - IO-540-AB1A5 230 BHP @2,400 RPM  Propeller: McCauley 3-bladed Constant Speed, Diameter 79 in (2.01 m)
Takeoff Performance  • Ground roll	SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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