

**Specification and Description  
“Exhibit A”**

**SKYLANE**  
**TC**

**Specification and Description**

**Dated January 2007**

**Beginning With Serial #T18208669**

**Manufacturer: Cessna Aircraft Company Model: T182T**

Initial \_\_\_\_\_



# Specification and Description “Exhibit A”

## The Cessna T182T Turbo Skylane

### Introduction

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

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Single Engine Piston Aircraft  
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Wichita, Kansas 67215  
1-800-4-CESSNA  
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This document supersedes all previous Specification and Description documents and describes only the Turbo Skylane Model T182T, its powerplant and equipment. Also included are the warranties applicable to the Turbo Skylane Model T182T aircraft, the Textron Lycoming TIO-540-AK1A 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.

# Specification and Description

## “Exhibit A”

### General Description

All information herein applies to the Turbo Skylane (Model T182T).

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 T182T 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.....	3,112 lbs	(1,412 kg)
Maximum Takeoff Weight.....	3,100 lbs	(1,406 kg)
Maximum Landing Weight.....	2,950 lbs	(1,338 kg)
Standard Empty Weight.....	2,095 lbs	(950 kg)
Maximum Useful Load.....	1,017 lbs	(462 kg)
Baggage Allowance.....	200 lbs	(91 kg)
Fuel Capacity		
Total capacity.....	92 gal	(348.2 L)
Total usable.....	87 gal	(329.3 L)
Total capacity each tank.....	46 gal	(174.1 L)
Total usable capacity each tank.....	43.5 gal	(164.6 L)
Oil Capacity		
Sump.....	8 qts	(7.5 L)
Total Capacity.....	9 qts	(8.5 L)

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## “Exhibit A”

### Turbo 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

Propeller De-ice Timer  
Auxiliary Power Jack -12 Volt (fore & aft)

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### 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  
TIT - Turbine Inlet 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)
- Propeller Heat

### ENVIRONMENTAL:

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

- Oxygen Bottle – 50 Cu. Ft.
- Oxygen Ports w/Masks – Pilot/Copilot/Passengers

- Oxygen Indicator – Overhead Console
- Oxygen Remote Shut-off Valve Control – Overhead Console

### 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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## “Exhibit A”

### **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 - Pilot/Copilot/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 Backlighting)

- Flaps
- Throttle
- Mixture
- Propeller
- Environmental Controls (Air and Heat)

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### Switch Panel Lighting (LED Backlighted)

- Avionics and Master Switches
- Dimming Reostats
- Landing, Taxi and Nav Switches
- Beacon, Strobe, Boost Pump, Pitot Heat, Prop 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)

### LED Lighted Switch Panel

### Radio Call Plate (Backlighted)

### LED Lighted Circuit Breaker Panel

### Compass Internally Lighted

### Standby Attitude, Altimeter, Airspeed Internally Lighted

### Vernier Propeller Control

### Dual Ignition System, Shielded Magneto

### Engine Exhaust Muffler

### McCauley Constant Speed, 3 Blade Metal Prop w/De-ice Boots

### Propeller Governor

### Propeller Spinner, Polished

### Electric Starter

## **POWER PLANT AND ACCESSORIES:**

Lycoming TIO-540-AK1A Engine

235 HP @2400 RPM

Certified for 100LL & 100 Fuel

Turbocharging System (Fully Automatic)

Fuel Injection System

Tubular Steel Engine Mount

Dynafoal 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

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### 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

### Interior Options

Fabric Seat Surfaces w/ Vinyl trim

### Exterior Striping Options

**519D:** Ruby Red Pearl and Antique Gold Pearl Painted  
Stripes; Cessna Logo, Turbo Skylane Logo and Registration  
Number: All Dark Red Vinyl.

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

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



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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..... 176 kts

Cruise, 88% power at 12,500 ft..... 159 kts

Cruise (Recommended lean mixture with fuel allowance for engine start, taxi, takeoff, climb and 45-minute reserve)

88% power at 12,500 ft..... range 615 nm (1,139 km)

87 gallons usable fuel..... time 4.0 hr

45% power at 10,000 ft..... range 971 nm (1,798 km)

87 gallons usable fuel..... time 8.90 hr

Rate of Climb at Sea Level..... 1,040 fpm (317mpm)

Certified Maximum Operating Altitude..... 20,000 ft (6,096 m)

#### Takeoff Performance

• Ground roll..... 775 ft (236 m)

• Total distance over 50-ft obstacle..... 1,385 ft (422 m)

#### Landing Performance

• Ground roll..... 590 ft (180 m)

• Total distance over 50-ft obstacle..... 1,350 ft (411 m)

#### 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)

Power Loading..... 13.2 lbs/hp (6.0 kg/hp)

Engine: Lycoming - TIO-540-AK1A 235 BHP @2,400 RPM

Propeller: McCauley 3-bladed Constant Speed, Diameter 79 in (2.01 m)

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.**