

The New Cessna T182T Turbo Skylane

**Specification and Description
Dated April 2001
Beginning With Serial
#T18280001**

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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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 avionics.

In the event of any conflict or discrepancy between this document and the basic purchase agreement to which it may be appended, terms specified in the basic purchase agreement 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.

Manufacturer: Cessna Aircraft Company

Model: T182T

General Description

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

The Turbo 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 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	2,023 lbs	(918 kg)
	Maximum Useful Load	1,089 lbs	(494 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		9 qts	(8.5 L)

Performance

Conditions

All 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 and numerous factors affecting flight performance.

Speed, CAS

Maximum at 20,000 ft	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	8.9 hr	

Rate of Climb at Sea Level	1,040 fpm	(317 mpm)
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Certificated 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 KCAS	
Flaps down, power off	49 KCAS	
Wing Loading	17.8 lb/sq ft	(86.9 kg/sq
m)		
Power Loading	13.2 lb/hp	(6.0 kg/hp)
Engine: Textron Lycoming	TIO-540-AK1A	
235 BHP at 2,400 rpm		
Propeller: 3-bladed Constant Speed, Diameter	79 in	(2.01 m)
*Specifications subject to change without notice.		

Turbo Skylane Equipment List

The following list of equipment is included on the standard aircraft and may not reflect optional equipment that you may have chosen to be added.

Flight Instruments

Sensitive Altimeter (20-ft Increments and Inches of Hg or Millibars Where Required)

Digital Clock

Magnetic Compass

Attitude and Directional Gyros 3" Display (Includes Vacuum System, Suction Gauge, and Low-vacuum Warning)

True Airspeed Indicator

Outside Air Temperature Indicator

Turn Coordinator Indicator

Vertical Speed Indicator

Engine Instruments

Ammeter/Vacuum

Annunciator Panel

 Left Low Fuel

 Left Low Vacuum

 Low Oil Pressure

 Low Voltage

 Right Low Fuel

 Right Low Vacuum

 Pitch Trim

Cylinder Head Temperature/Turbine Inlet Temperature

Flight Hour Recorder

Fuel Flow/Manifold Pressure

Left and Right Fuel Quantity

Oil Pressure/Temperature

Recording Tachometer

Propeller De-ice Indicator

Controls

Hydraulic Toe-operated Brakes
Parking Brake
Stainless Steel Control Cables
Manual Cowl Flaps
All-purpose Dual Control Wheels
Electric Preselect Flaps
Dual Flight Controls
Fuel Selector Valve — Left, Both, Right, Off
Aileron and Elevator Lock
Throttle Control
Vernier Mixture Control
Vernier Propeller Control
Alternate Static Source
Elevator Trim System
Rudder Trim System

Interior Lights

Variable-intensity Control Pedestal
Backlit, Variable-intensity Instruments
Indirect Glareshield, Variable-intensity Instrument Panel Lighting
Variable-intensity, Yoke-mounted Map
Overhead Cabin

Exterior Lights

Low Profile Ground Recognition Light
Recessed Navigation Lights
Navigation Light Detectors
Wing Tip Strobes
Landing and Taxi (Wing-mounted)
Underwing Courtesy (Left and Right Wing)

Power Plant and Accessories

Lycoming T10-540-AK1A Engine, 235 BHP @ 2,400 RPM Certified for 100 and 100LL Fuel
Slope Turbocharger Control System
Fuel Injection System
Fuel System With Fuel Vapor Return System
Tubular Steel Engine Mount — Rear Dynafocal
Rigid-mounted Cowling
Automatic Alternate Engine Air
28-volt, 95-amp Alternator
Alternator Control Unit (With High-voltage Trip Out and Low-voltage Warning Capability)
24-volt, 15.5-amp Hr Battery (5-hr Rate)
Oil Cooler
Flush-mounted Induction Air Filter
Full-flow Oil Filter
Electric Auxiliary Fuel Pump
Engine-driven Fuel Pump
Fuel Strainer, With Incorporated Fuselage Quick Drain

Integral Fuel Tanks, 87-gal Usable
Fuel Quick Drains, 5 per Wing and Sampler Cup
Ground Service Plug Receptacle
Dual Shielded Magneto Ignition System
Key-operated Ignition and Starter Switch
McCauley Constant Speed, 3-bladed, Metal Propeller
Propeller De-ice System
Propeller Governor
Propeller Spinner
Electric Starter
Dual-pump Vacuum System (Engine-driven)
Cowl Flaps
Improved Engine Baffles

Interior

Approach Plate Holder
Rear Passenger Integrated Cupholders
Wall-to-wall Carpet
Pilot's Checklist
Electrical and Avionic Circuit Breakers
Pilot and Co-pilot Windshield Defroster
Hand-held Fire Extinguisher
Glareshield (With LED Lighting)
Pilot's Operating Handbook
Shrouded Heating System With Firewall Valve
Clothes Hanger Bar
Metal Instrument Panel With Removable Subpanels
Map/Glove Compartment
Cup and Chart Holder
Baggage Net
Lighted Radio Call Plate
12-volt Power Port
Audio Input Port to Audio Panel
Map and Storage Pockets
Cabin Door Scuff Plates
Inertia-reel Shoulder Harness Seat Belts With Push-button Release (All Seats)
Leather Seat Surfaces, Dark Gray With Perforated Inserts
Pilot and Co-pilot Seats: Adjustable Fore and Aft With
Reclining Backs and Vertical Adjust
Rear Bench Seat With Individual Reclining Backs
Acoustic Cabin Soundproofing
Pilot/Co-pilot Rosen Premium Sun Visors
Split Avionics Power Switch
Split Master Switch
Cabin Tri-level Ventilation, Six Enclosed
Adjustable Ventilators
Hinged Left-hand and Right-hand Window
Rear Window
Tinted All-around Windows
Cabin Insulation
Headliner Access Panels

Four-place Oxygen System
Externally Serviceable
50-ft³ Composite Oxygen Bottle

Exterior

Epoxy Corrosion Proofing All Structure
Baggage Door
Left-hand Cabin Door
Right-hand Cabin Door
Wing Flaps (Electrically Operated)
Fixed Landing Gear
Lockable, Key-operated Baggage Door
Lockable, Key-operated Cabin Door
Vinyl Appliqué Logo and Striping
Steerable Nose Wheel
Overall Paint (Polyurethane)
Heated Pitot System
Audible Stall Warning System
Streamlined Refueling Steps and Handles (Wing Struts and Fuselage)
Streamlined, Low Drag Fixed Cabin Entrance Steps
Tie-down Rings
Tube-type Tires
 Nose, 5.00 X 5
 Mains, 6.00 X 6
Tow Bar (Stowable)
Restyled Lower Drag Wing Tips
Strut-braced, Camber Lift Wings
Winterization Kit
Outside Air Temperature Sensor
Redesigned, High-performance Wheel Fairings
Restyled, Low Drag Removable Wing Strut Fairing
Blade-style Nav Antenna
Blade-style Comm Antenna
Restyled, Reclocked Main Gear Fairing
Improved Nose Gear Fairing
Reshaped Lower Cowl Fairing

Avionics

Standard Aircraft:
KX 155A Nav/Comm With Glideslope
KI 209 VOR/LOC/GS Indicator
KMA 28 Audio Panel/Marker Beacon/Four-position, Voice-activated Intercom
KT 76C Mode C Transponder
KAP 140 Two-axis Autopilot With Altitude Preselect
Avionics Cooling Fan
Emergency Locator Transmitter

Avionics

NAV I:

Standard Avionics Plus:

KLN 94 Color Moving-map GPS-IFR
MD 41-231 GPS-Nav Selector/Annunciator
2nd KX 155A Nav/Comm With Glideslope
KMD 550 Multifunction Display
KI 209A VOR/LOC/GS Indicator With
GPS Interface

NAV II:

Standard Avionics Plus:

KLN 94 Color Moving-map GPS-IFR
MD 41-233 GPS-Nav (HSI)
Selector/Annunciator
2nd KX 155A Nav/Comm With Glideslope
KMD 550 Multifunction Display
KI 209A VOR/LOC/GS Indicator With
GPS Interface (Exchange)
KCS 55A HSI
WX500 Weather Mapping Sensor

ADF:

KR 87 ADF System

Interior

Leather Seat Surfaces, Dark Gray With Perforated Inserts

Fabric Seat Surfaces, Mocha

Exterior Striping Options

514D: Matterhorn White Base, Sapphire Blue, Slate Gray, Alpine Green, Slate Gray Logo

514E: Matterhorn White Base, Wine, Slate Gray, Storm Gray, Light Gold Metallic Logo