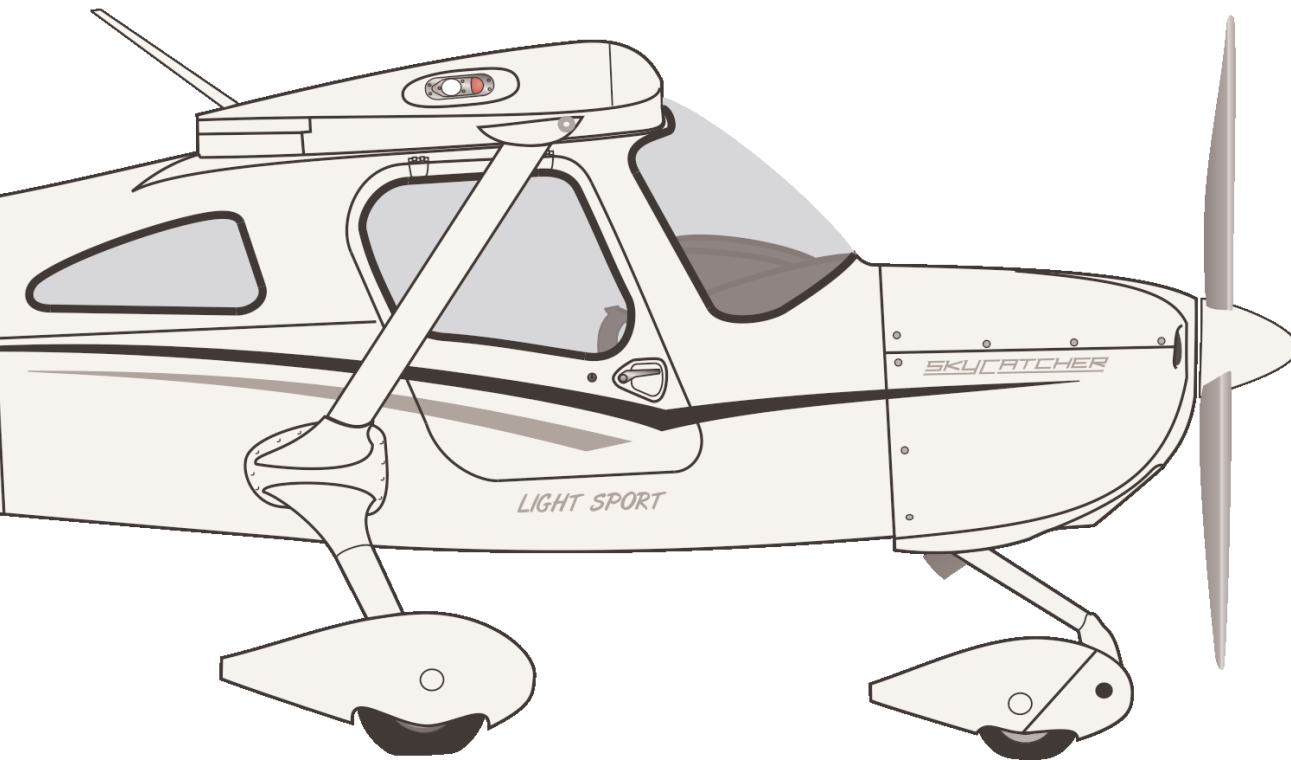


# SKYCATCHER

MODEL 162



## Specification & Description

Initial \_\_\_\_\_

Exhibit "A"

November 2009  
Beginning With Serial #162-1188 and On



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# **SPECIFICATION AND DESCRIPTION**

## **EXHIBIT "A"**

**NOVEMBER 2009**

**BEGINNING WITH SERIAL #162-1188 AND ON**



November 2009

## INTRODUCTION

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This Specification and Description is published for the purpose of providing general information for the evaluation of the design, performance, and equipment of the Cessna model 162. This document supersedes all previous Specification and Description documents and describes only the Model 162, its powerplant and equipment.

Also included are the warranties applicable to the Model 162 aircraft, the Teledyne Continental Motors O-200D engine, applicable propeller and the OEM-installed avionics. In the event of any conflict or discrepancy between this document and the terms and conditions of the purchase agreement to which it is incorporated, the terms and conditions of the 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.

For additional information contact:

Cessna Aircraft Company  
Single Engine Piston Aircraft  
2625 S. Hoover Rd.  
Wichita, Kansas 67215  
1-800-4-CESSNA  
[www.se.cessna.com](http://www.se.cessna.com)



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## 1. GENERAL DESCRIPTION

The Cessna model 162 is an all-metal, single engine piston, high-wing monoplane with a two-person seating capacity including the pilot. Suitable allowance for luggage is provided aft of the seats. The 162 will be equipped per FAR 91.205 to meet both Day and Night VFR flight requirements. Cessna's worldwide network of authorized service centers provides a complete source for all servicing needs.

### 1.1 Certification

The Model 162 is designed and built to comply with the American Society for Testing and Materials International (ASTM) standards for Light Sport Aircraft and it meets

the limitation and Special Certificate of Airworthiness requirements for a Light Sport category aircraft as defined by the FAA in CFR Part 1.1 and CFR Part 21.190.

The Purchaser is responsible for obtaining aircraft operating approval from the relevant civil aviation authority prior to aircraft delivery.

### 1.2 Approximate Dimensions

Engine	Continental O-200D
Horsepower	100 hp at 2750 RPM
Propeller	2-Blade Composite Fixed Pitch Propeller
Service Ceiling	14,625 ft (4,457.7 m)
Maximum Ramp Weight	1324 lbs (600 kg)
Maximum Gross Weight	1320 lbs (598.7 kg)
Standard Empty Weight	834 lbs (378.2 kg)
Maximum Useful Load	490 lbs (222.3 kg)
Fuel Capacity (Usable)	24 gal (90.85 l)
Overall Height	7 ft 4 in (2.23 m)
Overall Length	22 ft 1 in (6.80 m)
Wing Span	30 ft (9.14 m)
Horizontal Tail Span	9 ft 10 in (3.2 m)
Cabin Width at Shoulders	44.3 in (112.4 cm)

# 1. GENERAL DESCRIPTION (Continued)

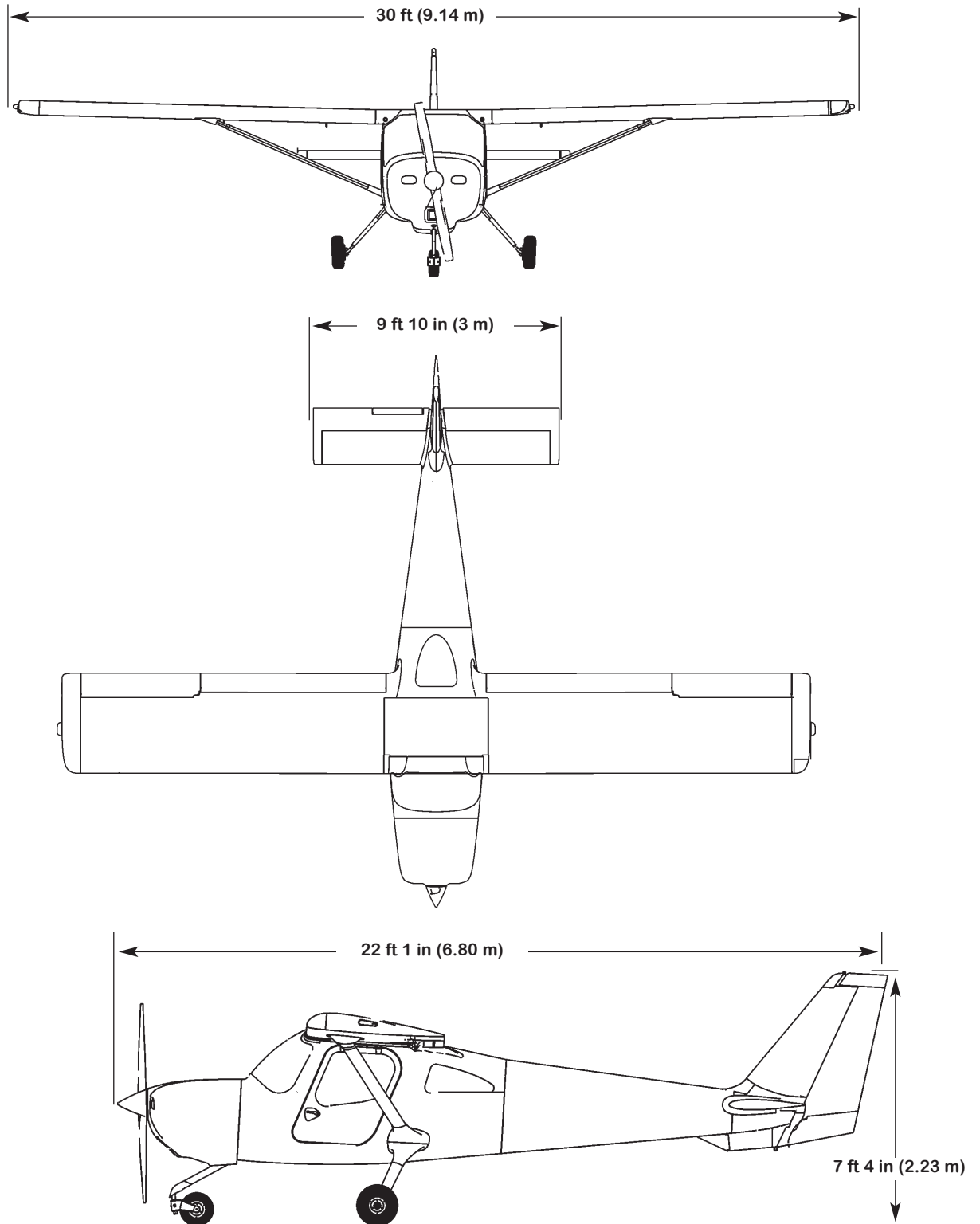
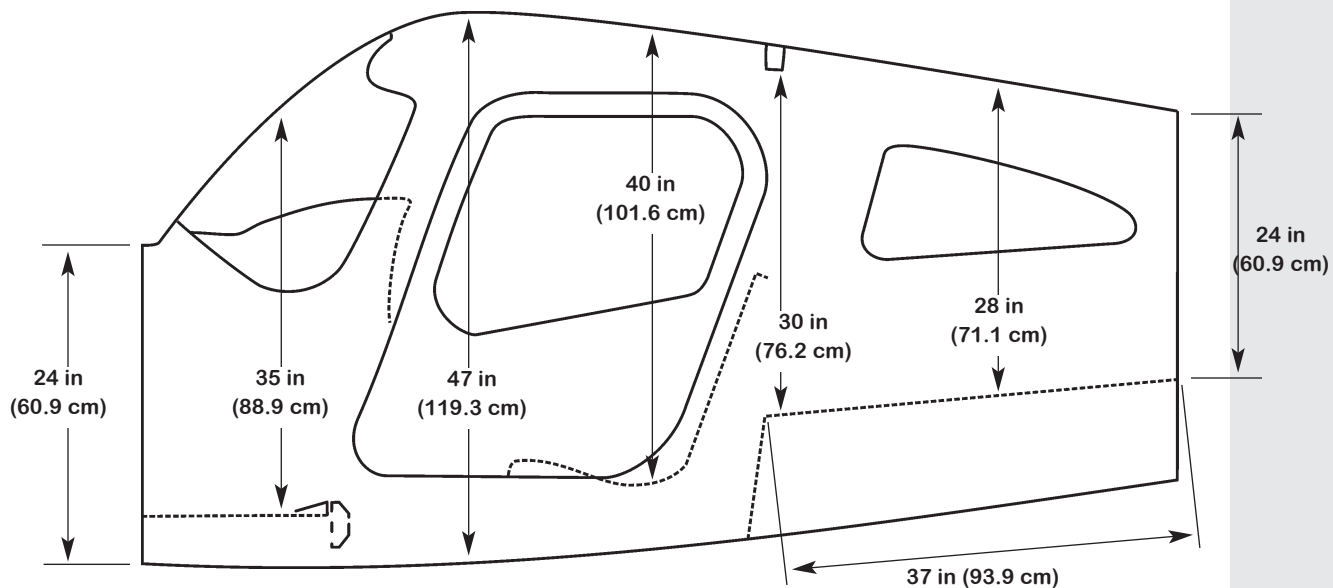
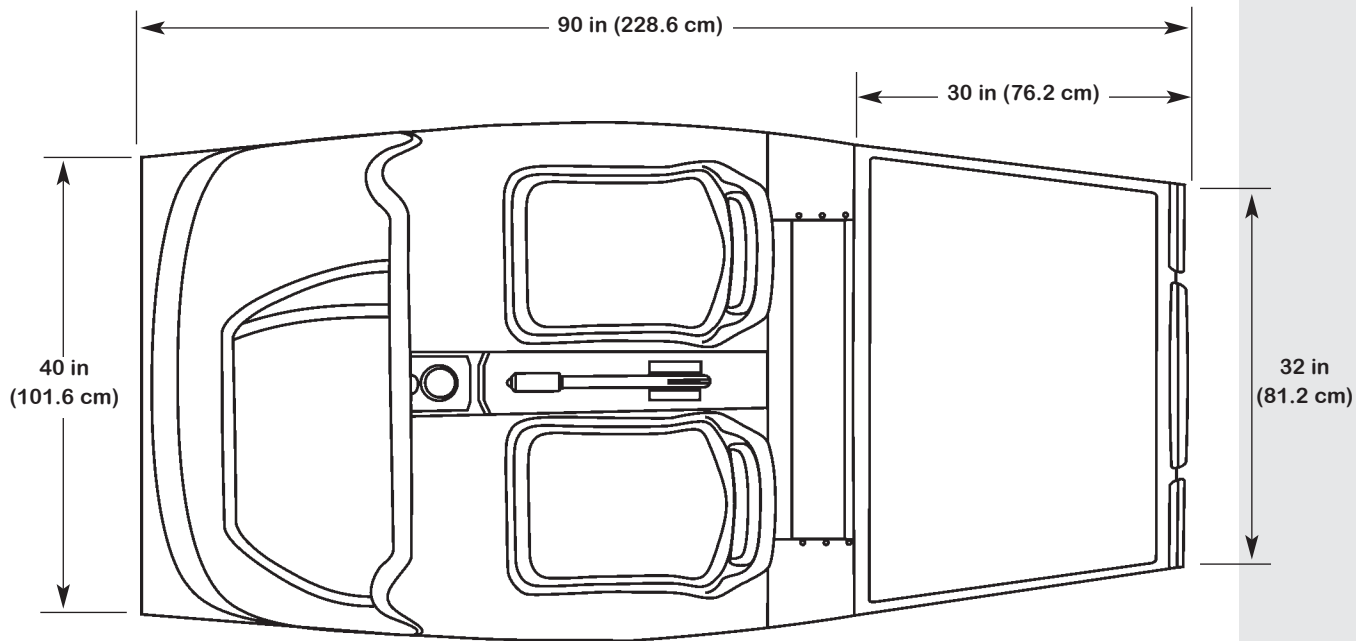


FIGURE I — MODEL 162 EXTERIOR DIMENSIONS

**1. GENERAL DESCRIPTION (Continued)**



**Cabin Height Dimensions**



**Cabin Width Dimensions**

**FIGURE II — MODEL 162 INTERIOR DIMENSIONS**



## 2. PERFORMANCE

All performance data is based on the standard aircraft configuration, operating in International Standard Atmosphere (ISA) conditions with zero wind. Takeoff and landing field lengths are based on a level, hard surface,

dry runway. Actual performance will vary with individual airplanes and other factors such as environmental conditions, aircraft configuration, and operational/ATC procedures.

Takeoff Distance S.L. (Ground Roll) .....	640 ft (195 m)
Takeoff Distance S.L. (To Clear 50 ft Obstacle) .....	1138 ft (347 m)
Max Climb Rate S.L. ....	880 fpm (268.2 m)
Max Speed S.L. ....	118 kts (219 km/hr, 136 mph)
Max Range and Endurance at 6,000 ft .....	440 nm / 5.7 hrs
Cruise Speed (69% pwr. at 6,000 ft) .....	109 kts (202 km/hr, 125 mph)
Cruise Range and Endurance (69% pwr. at 6,000 ft) .....	336 nm / 3.1 hrs
Landing Distance (Ground Roll) .....	671 ft (205 m)
Landing Distance (To Clear 50 ft Obstacle) .....	1369 ft (417 m)

(Performance shown with 30 minutes of fuel reserve)

## 3. STRUCTURAL DESIGN CRITERIA

The airframe will be designed and constructed to meet the requirements presented in ASTM standard F2245 "Standard Specification for Design and Performance of a Light Sport Airplane".

## 4. FUSELAGE

The fuselage will be constructed primarily of aluminum alloy materials. The semi-monocoque structure will consist of frames and stringers covered by sheet aluminum

skin. A left hand and right hand door are used to allow access for the pilot and passenger.

## 5. WING

The wing will be constructed primarily of aluminum alloy materials and incorporates a custom designed airfoil. The wing structure uses a two spar design with a strut

that attaches to the forward spar. Slotted flaps are used to further lower the stall speed. An integral fuel tank will be incorporated in each wing.

## 6. EMPENNAGE

The horizontal tail will be a fixed design with two elevators. Pitch trim will be provided by a single trim tab

mounted on the right hand elevator. The rudder will not have a trim tab.

## 7. LANDING GEAR

The main landing gear will use high strength, tapered steel tubes to provide the necessary shock absorption.

wheel steering. Toe brakes will be provided at both cockpit seats.

Each main wheel will be equipped with toe actuated disc brakes. The differential braking will be used for nose



## 11. INTERIOR

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The Skycatcher interior consists of the following amenities:

- Two Metal Framed Seats with Cloth Wrapped Inserts
- LED Overhead Panel Lighting
- Neutrally Painted Interior
- Cabin Door Armrests
- Center Console containing Map and General Storage
- 2.5 (.35 m<sup>3</sup>) Cubic Foot Baggage Area
- Baggage Net

## 12. OPTIONAL AFTERMARKET EQUIPMENT

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- Second MFD (Map, Topographic, Terrain & Obstacles)
- Second MFD and XM Antenna (Map, Topographic, Terrain & Obstacles) - Adds XM Weather and Radio Capability only (*Subscription Required*)
- Intercom (PS Engineering – PM3000) - Required for XM Radio. Adds Aux Audio Input Jack (MP3 etc.)
- Autopilot 2 Axis – (Tru Trak) Integrated (NAV/Heading Bug Control) to PFD and a separate Control Head
- Airframe Parachute System (BRS)
- Fuel Primer
- EGT
- Oil Quick Drain Valve
- External Power Receptacle
- Cold Weather Kit - Cowl Inlet Plugs and Engine Breather Insulation
- Sun Visors
- Wheel Fairings - 1 Nose Gear, 2 MLG Fairings
- Fire Extinguisher
- Exterior Accent Graphics

## 13. EXTERIOR STRIPING OPTIONS

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- Additional fuselage and tail accent graphics in Apple Green, Burgundy or Royal Blue Vinyl are available  
*Refer to Price sheet, page 2*

## 14. LIMITED WARRANTIES

### 14.1 Cessna Skycatcher Model 162 Piston Aircraft Limited Warranty (Limited Warranty)

Cessna warrants the aircraft and all parts included therein to be free from defects in material and workmanship under normal use and service for a period of twelve (12) months or 1,000 hours (whichever occurs first) after the warranty start date, except as hereafter noted. Engines, engine part accessories, avionics, batteries and propellers are specifically excluded from this warranty. Paint and graphics warranties are addressed separately.

Spare parts sold by Cessna, excluding engines, engine part accessories, avionics, and propellers are warranted for six (6) months after installation, except as hereafter noted.

Cessna's obligation under this warranty is limited to repairing or replacing, at its option, with exchange, overhauled, or new parts, items found defective by Cessna's examination which are returned at the owner's expense within the applicable twelve (12) months or 1,000 hours (whichever occurs first) or, for spare parts, the remaining portion of the applicable six (6) month warranty period.

A new warranty period is not established for replacement parts. Replacement parts are warranted only for the remainder of the applicable twelve (12) months or 1,000 hours (whichever occurs first) or, for spare parts, the remaining portion of the applicable limited warranty period.

The repair or replacement of defective parts under this warranty will be made without charge to the owner for parts and labor for removal, installation and/or actual repair, except that the owner shall pay all import duties and sales and use taxes on replacements and repairs.

This limited warranty does not apply to parts subjected to misuse, negligence, improper installation, accident, alteration; repairs not authorized by Cessna; normal maintenance services (cleaning, control rigging, brake and other mechanical adjustments, maintenance inspections, etc.); replacement of service items (light bulbs, brake linings, filters, hoses, tires, cowl mounts, etc.); or to normal deterioration of soft trim or appearance items (paint, upholstery, rubber-like items, etc.) due to corrosion, wear and exposure.

WITH THE EXCEPTION OF THE WARRANTY OF TITLE, TO THE EXTENT ALLOWED BY APPLICABLE LAW, THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED IN FACT OR BY LAW, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE REMEDIES OF REPAIR OR REPLACEMENT AS ABOVE SET FORTH ARE THE ONLY REMEDIES UNDER THIS WARRANTY. CESSNA DISCLAIMS ANY OBLIGATION OR LIABILITY WHETHER IN CONTRACT OR IN TORT (AND WHETHER FOR NEGLIGENCE, STRICT LIABILITY, PRODUCT LIABILITY OR OTHERWISE), INCLUDING LOSS OF USE OF THE PRODUCT WARRANTED, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS OR ANY OTHER DIRECT, CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGES. THIS WARRANTY IS IN LIEU OF ANY OTHER OBLIGATION OR LIABILITY OF CESSNA OF ANY NATURE WHATSOEVER BY REASON OF THE MANUFACTURE, SALE OR LEASE OF SUCH AIRCRAFT PRODUCTS AND CESSNA NEITHER ASSUMES NOR AUTHORIZES ANYONE TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SUCH AIRCRAFT PRODUCTS.

### 14.2 Garmin Standard Avionics Limited Warranty (Limited Warranty)

Aircraft OEM-Installed Avionics 1-Year Limited Warranty Policy:

The GARMIN G300 Components are warranted to be free from defects in materials or workmanship for one year from the date of warranty activation. The SL40 Com Radio and the GTX327 Transponder are warranted to be free from defects in materials or workmanship for two years from the date of warranty activation. Within this period, GARMIN International, Inc. will at its sole option, repair or replace any components which fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, accident or unauthorized alteration or repairs.



## 14. LIMITED WARRANTIES (Continued)

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED OR STATUTORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM STATE TO STATE.

IN NO EVENT SHALL GARMIN BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT.

Some states do not allow the exclusion of incidental or consequential damages, so the above limitations may not apply to you.

GARMIN retains the exclusive right to repair or replace the product or offer a full refund of the purchase price at its sole discretion. SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY.

To obtain warranty service, contact your local GARMIN authorized Service Center. For assistance in locating a Service Center near you, call GARMIN Customer Service at one of the numbers shown below.

GARMIN International  
1200 East 151st Street  
Olathe, Kansas 66062, U.S.A.  
Toll free: 1-800-800-1020  
Phone: 1-913-397-8200  
FAX: 1-913-397-0836

GARMIN (Europe) Ltd.  
Unit 5, The Quadrangle  
Abbey Park Industrial Estate  
Romsey, SO51 9AQ, U.K.  
Phone: 44-1794-519944  
FAX: 44-1794-519222

### 14.3 Teledyne Continental Motors, Inc. New Engine Warranty

Each new aircraft engine shipped from Teledyne Continental Motors' plant on or after August 1, 1999 is warranted as follows:

1.(a) For a period of twelve (12) months or one thousand (1000) hours of operation, whichever occurs first, after the warranty activation date Teledyne Continental Motors (TCM) will at its option repair or replace on an exchange basis any engine, component or part manufactured or supplied by it which within the applicable twelve (12) month or one thousand (1000) hour period is returned to a TCM representative authorized to handle the engine covered by this warranty and which upon examination is found to the satisfaction of TCM to be defective in material or workmanship. The warranty activation date is the date the engine is first operated for any use or the 180th day after TCM's invoice date, whichever occurs first.

(b) TCM will pay for reasonable labor costs associated with repairs or replacements under paragraph 1(a) of this warranty and for "troubleshooting" costs associated with identifying the need for such repairs or replacements, when coordinated through an authorized TCM representative. The amount of repair and replacement labor costs allowed will be in accordance with the latest revision of the warranty labor allowance schedule, Form X30552, published by TCM. The amount of "troubleshooting" costs allowed will be the reasonable costs under the circumstances of identifying the need for such repairs or replacements, but in no event will the "troubleshooting" costs allowed exceed fifteen percent (15%) of the labor costs associated with such repairs or replacements allowed by TCM. No "troubleshooting" cost allowance will be made where the need for repairs or replacements is identified in the course of overhaul, routine maintenance or on the basis of an obvious defect.

(c) TCM will pay transportation costs in connection with the repair or replacement of any engine, component or part found to the satisfaction of TCM to be defective in material or workmanship under paragraph 1(a) of this warranty. The engine, component or part must be shipped prepaid to the repair facility designated by TCM. Transportation cost reimbursement for engines will be the actual surface freight charge or \$500.00, whichever is less. Engines must be

## 14. LIMITED WARRANTIES (Continued)

described on the bill of lading as follows:

"Internal combustion engine, other than Radial Cyl RVNX \$5.00". Transportation cost reimbursement for components or parts will be the actual surface freight charge for shipment of the component or part or the currently published UPS surface rate schedule, whichever is less.

2.(a) After the expiration of the applicable twelve (12) month period described above and before the expiration of an additional twenty-four (24) month period or expiration of one thousand (1000) hours of operation, whichever occurs first, TCM will, except as excluded below, at its option repair or replace on an exchange basis any component or part manufactured or supplied by it which is found to the satisfaction of TCM to be defective in material or workmanship. During this period TCM reserves the right at its option to replace the defective component or part with either a new or rebuilt component or part. During this period TCM will not assume any responsibility for the repair or replacement of engine accessories, i.e. parts which have been purchased by TCM from a manufacturer as a complete and finished unit and included in the assembly of an engine without altering the unit, including, but not limited to, Unison<sup>®</sup> magnetos and harnesses, Precision Airmotive Corporation<sup>®</sup> carburetors and fuel controls, Electrosystems<sup>®</sup> starters and alternators and Alliedsignal<sup>®</sup> and Consolidated Fuel Systems<sup>®</sup> turbochargers. During this period accessories will be subject to such warranty coverage as may be provided by their manufacturer.

(b) In the event that TCM elects to repair in the field, rather than replace, any component or part under paragraph 2(a) of this warranty, TCM will pay labor costs for the repair of the component or part only. The amount of repair labor costs allowed will be in accordance with the latest revision of the warranty labor allowance schedule, Form X30552, published by TCM. TCM will not assume any responsibility for labor costs for the removal and / or re-installation of the component or part, costs associated with "troubleshooting" or any other labor costs associated with repairs or replacements under paragraph 2(a) of this warranty.

(c) TCM will not assume any responsibility for transportation costs associated with repairs or replacements under paragraph 2(a) of this warranty.

3. The coverage under this warranty applicable to cylinder assemblies and related parts shall be subject to

the terms, conditions and limitations set forth in the applicable TCM TopCareSM Cylinder Warranty.

4. Repair or replacement of any engine or part under this warranty will not extend the period of warranty coverage set forth above.
5. This warranty applies only to engines in which parts manufactured or supplied by TCM or parts manufactured pursuant to an FAA Parts Manufacturer Approval have been used and nothing contained herein should be construed as a warranty by TCM of any engine or part not manufactured or supplied by TCM. TCM accepts no responsibility for the failure of any engine or part which it does not manufacture or supply or damage resulting from such failure.
6. This warranty applies only to engines which have been installed, inspected and maintained in accordance with the instructions for continued airworthiness, including compliance with all applicable service bulletins issued by TCM, the aircraft manufacturer or any accessory or component manufacturer. Performance of recommended inspections and maintenance must be documented by appropriate logbook entries and the logbook must accompany any engine being returned for warranty consideration.
7. This warranty does not apply to any engine, component or part manufactured or supplied by TCM which
  - (1) has been subject to misuse, neglect or accident;
  - (2) has been installed, repaired, maintained or altered in any way that in the judgment of TCM has adversely affected the condition of the engine;
  - (3) has been operated inconsistent with TCM and aircraft manufacturer recommendations and limitations (such as, but not limited to engine RPM, temperature, manifold pressure, fuel flow and proper system adjustment) or
  - (4) has been changed from its original FAA certificated configuration.
8. TCM will not be responsible for repair or replacement of any engine, component or part damaged or worn as a result of corrosion, pre-ignition/detonation, operation with non-calibrated engine gauges, improper fuel system adjustment, non-TCM approved fuel and oil grades or additives or installation of parts, components or accessories that alter the engine's original type design.
9. The provisions of this warranty do not apply to normal maintenance service (such as engine tune-ups,

## 14. LIMITED WARRANTIES (Continued)

adjustments, inspections, engine or component overhaul resulting from time between overhaul (TBO) recommendations, etc.) or to the replacement of normal service items (such as spark plugs, filters, hoses, belts, etc.).

10. TCM reserves the right to change any engine or part specifications or prices without incurring any responsibility with regard to engines or parts previously sold or replaced.
11. **THIS WARRANTY IS A WARRANTY TO REPAIR OR REPLACE AND NOT A WARRANTY OF THE CONDITION OR FUTURE PERFORMANCE OF THE PRODUCTS WHICH IT COVERS. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, SPECIFICALLY, BUT WITHOUT LIMITATION, THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL TCM BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY DEFECT IN ANY ENGINE OR PART, ARISING OUT OF THE FAILURE OF ANY ENGINE OR PART TO OPERATE PROPERLY, OR ARISING OUT OF ANY BREACH OF THE WARRANTY MADE HEREIN. No person is authorized to give any other warranty or to assume any additional obligation or liability on behalf of TCM.**

### 14.4 Cessna Skycatcher Model 162 Piston Aircraft Propeller Warranty

Final selection of the propeller is not yet complete. The standard manufacturers warranty will apply.

### 14.5 Cessna Skycatcher Model 162 Paint Warranty

Cessna endeavors to select and use high quality polyurethane paints from the leading manufacturers. Polyurethane paints are used because of their high gloss characteristics and ability to withstand dramatic temperature and pressure changes. The paint on your new aircraft will maintain its high gloss characteristics for an extended period of time provided it is cared for properly.

The painted exterior surfaces require an initial curing period which may be as long as ninety (90) days after the finish is applied. During this curing period, some precautions should be taken to avoid damaging the finish or

interfering with the curing process. The finish should be cleaned only by washing with clean water and mild soap, followed by a water rinse and drying with a cloth or chamois. Do not use polish or wax, which would exclude air from the surface, during this ninety (90) day curing period. Once the finish has cured completely, it may be waxed with a good automotive wax, but power buffing should be avoided to prevent damage to the paint surface.

Normal paint maintenance will include but is not limited to; touchup of abrasion and wear of the paint on screws heads, around access panels, wing leading edges, vertical and horizontal stabilizer leading edges, windshield retainers and other leading edge surfaces including parts on the landing gear subject to damage or erosion from airborne particles. Proper maintenance includes keeping surfaces clean, polished, and touching up chipped or eroded areas to prevent further damage and corrosion.

Paint and graphics warranty applies only to defects in material and workmanship for a period of one (1) year or 1,000 hours (whichever occurs first) from the warranty start date. Deterioration of paint and graphics due to normal wear, exposure, or improper care is not covered by the warranty. If proper paint maintenance procedures have been followed and paint peeling, blistering or cracking is evident in areas other than immediate leading edge surfaces, warranty consideration may be requested through a Cessna Service Station.

Generally speaking, warranty repair of paint is confined to a limited surface area. Workmanship or material defects can usually be identified to localized surface areas that were improperly prepared prior to paint application, or to areas where the paint or subsurface primer has been improperly applied.

Complete strip and repaint of an entire airplane can ONLY be authorized if there is evidence of paint defects on several major surface areas of the aircraft. Contact your Cessna Field Service Engineer concerning paint defects on any major surface of an aircraft.

