

— Specification and Description —

“Exhibit A”

SRP
Skyhawk

The Cessna 172S Skyhawk SP

Specification and Description

Dated January 2005

Beginning With Serial #172S9771



Introduction

This document is published for the purpose of providing general information for the evaluation of design, performance and equipment of the Cessna Skyhawk SP. 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 172S, its powerplant and equipment.

Also included are the warranties applicable to the Skyhawk Model 172S aircraft, the Textron Lycoming IO-360-L2A 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.

Manufacturer: Cessna Aircraft Company

Model: 172S

General Description

All information herein applies to the Skyhawk SP (Model 172S).

The Skyhawk SP 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 172S 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)	8'11"	(2.72 m)
Overall Length	27'2"	(8.28 m)
Wing		
Span (overall)	36'1"	(11.00 m)
Area	174 sq ft	(16.2 sq m)
Cabin		
Height (max)	48"	(1.22 m)
Length (firewall to aft baggage bulkhead)	142"	(3.61 m)
Width	39.5"	(1.00 m)
Cabin Door		
Height (front)	40.5"	(1.03 m)
Height (rear)	39"	(.99 m)
Width (top)	32.5"	(.83 m)
Width (bottom)	37"	(.94 m)
Baggage Door		
Height (front)	22"	(.56 m)
Height (rear)	21"	(.53 m)
Width	15.3"	(.39 m)

Design Weights and Capacities

Ramp Weight		
Normal category	2,558 lbs	(1,160 kg)
Utility category	2,208 lbs	(1,002 kg)
Takeoff Weight		
Normal category	2,550 lbs	(1,157 kg)
Utility category	2,200 lbs	(998 kg)
Landing Weight		
Normal category	2,550 lbs	(1,157 kg)
Utility category	2,200 lbs	(998 kg)
Standard Empty Weight ¹		
Normal category	1,663 lbs	(755 kg)
Utility category	1,663 lbs	(755 kg)
Maximum Useful Load		
Normal category	895 lbs	(405 kg)
Utility category	545 lbs	(246 kg)
Baggage Allowance	120 lbs	(54 kg)
Fuel Capacity		
Total capacity	56 gal	(212 L)
Total usable	53 gal	(200.6 L)
Total capacity each tank	28 gal	(106 L)
Total usable capacity each tank	26.5 gal	(100.3 L)
Oil Capacity		
Sump	.8 qts	(7.6L)
Total capacity	.9 qts ²	(8.5L)

Notes:

- Standard empty weight based upon:
 - 0.6-mil primer on all details, 0.6-mil primer on all exterior surfaces and 2.0-mil paint on all exterior surfaces.
 - Engineering-defined standard aircraft.
- Total oil capacity is with 8 qts. in sump and 1 qt. in oil filter.

Skyhawk SP Standard Equipment List

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

AVIONICS:

KMA-28 Audio Panel/Marker Beacon/Intercom
CI-102 Marker Beacon Antenna
KX-155A NAV/COM without Glide Slope
KI-208 VOR/LOC Indicator
CI248 VHF/GPS Antenna w/Internal Notch Filter
CI-215 NAV Antenna
KT-76C Transponder - Mode C
CI-105 Transponder Antenna
SSD 120-30A Blind Encoder
Pointer 3000-11 Emergency Locator Transmitter (ELT)
Emergency Locator Transmitter (ELT) Whip Antenna
Emergency Locator Transmitter (ELT) Remote Mounted Switch
FN 300 Avionics Cooling Fan
Avionics Circuit Breaker Panel
Control Wheel Push-To-Talk Switch - Pilot/Copilot
Mic & Phone Jacks Pilot/Copilot/Passengers
Auxiliary Stereo Input Jack

ELECTRICAL POWER:

Alternator, 28 Volt, 60 Amp
Battery, 24 Volt, 12.75 AH, Manifold Type

Electrical Circuit Panel

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

• Switch Breakers, Electrical

Electrical J-Box

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

Auxiliary Power Jack - 12 Volt

ENGINE INSTRUMENTS:

Oil Pressure/Temperature
Ammeter/Vacuum
LH/RH Fuel Quantity
Fuel Flow/Exhaust Gas Temperature
Tachometer - Hour Recorder
Flight Hour Recorder

Annunciator Panel

- LH Low Fuel Light
- RH Low Fuel Light
- LH Low Vacuum Light
- RH Low Vacuum Light
- Low Oil Pressure Light
- Low Voltage Light

Annunciator Panel Test/Bright/Dim Switch

ENVIRONMENTAL:

Windshield Defroster, Pilot/Copilot
Ventilator, Adjustable (6 places)
Heating System, Shrouded Muffler w/Firewall Valve

Soundproofing

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 Tips
Strut Braced, Camber Lift Wings
Static Wicks

EXTERIOR LIGHTS:

Ground Recognition - Vertical Tail
Navigation, LH/RH Wing Tip & Vertical Tail
Wing Tip Navigation Light Detectors, LH/RH
Wing Tip Strobe, LH/RH
High Intensity Discharge (HID) Landing/Taxi Lights, LH Wing
HID Electronic Ballast
Underwing Courtesy, LH/RH Wing

FLIGHT CONTROLS:

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

FLIGHT INSTRUMENTS:

Airspeed, w/True Airspeed
Attitude Gyro
Dual Mode Altimeter (In/Mb), Sensitive
20,000 ft.
Turn Coordinator, w/Slip Skid
Directional Gyro
Vertical Speed
Magnetic Compass
Digital Clock, w/OAT/Voltmeter/Flight
Time
Pitot System - Heated
Static System
Alternate Static Source
Dual Vacuum Pump System, Engine Driven
Audible Stall Warning System

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 Vapor Return System

INTERIOR:

Mink Leather/ Mink Vinyl Seats
w/Mink Leather Insert
Amsafe Inflatable Seat Belts & Shoulder
Harness STC, Inertia reel, Pilot/ Copilot Seats
Seat Belts & Shoulder Harness, Inertia Reel,
Passenger Seats

Pilot and Copilot Seats

- Adjustable Fore and Aft
- Reclining Backs
- Vertical Adjustment

Rear Seat Bench w/One Piece
Reclining Back

Kydex Upholstery w/Cloth Insert

Approach Plate Holder, Pilot Control
Wheel

Armrests - Pilot & Copilot
Doors/Passengers Side Wall

Wall-to-Wall Carpet

Pilot's Check List

Pilot's Operating Handbook

Fire Extinguisher, Hand Held

Glareshield w/Lighting

Clothes Hanger Bar

Metal Instrument Panel, w/Removable
Subpanels

Map/Glove Compartment

Baggage Net

Radio Call Plate

Map & Storage Pockets

Sun Visors, Pilot/Copilot

Cup Holders - Passengers

Control Wheel Lock - Pilot/Copilot

Jepp Manual Storage Console w/Cup Holders

Tow Bar

INTERIOR LIGHTING:

Avionics Instruments Internally Lighted
Avionics Radios Internally Lighted
Engine Instruments Internally Lighted
Flight Instruments Internally Lighted
Glareshield Lighting
Interior Lights Dimming Control
Map Light, Pilot Control Wheel
Dimmable Cabin Overhead LED Light,
Pilot/Copilot
Non - Dimmable Cabin Overhead
Light, Passenger
Compass Internally Lighted
Fuel Selector Lighting
Pedestal Lighting

POWER PLANT & ACCESSORIES:

Lycoming IO-360-L2A Engine
180 HP @ 2700 RPM
Certified for 100LL & 100 Fuel
Fuel Injection System
Tubular Steel Engine Mount
Dynafoal Rear Mount
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, Polished
Electric Starter

Performance

Conditions

All estimated performance data are based on airplane weights at 2,550 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 126 kts

Cruise, 75% power at 8,500 ft 124 kts

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

75% power at 8,500 ft range 518 nm (959 km)

53 gallons usable fuel time 4.26 hr

45% power at 10,000 ft range 638 nm (1,182 km)

53 gallons usable fuel time 6.72 hr

Rate of Climb at Sea Level 730 fpm (223 mpm)

Service Ceiling 14,000 ft (4,267 m)

Takeoff Performance

Ground roll 960 ft (293 m)

Total distance over 50-ft obstacle 1,630 ft (497 m)

Landing Performance

Ground roll 575 ft (175 m)

Total distance over 50-ft obstacle 1,335 ft (407 m)

Stall Speed, CAS

Flaps up, power off 53 kts

Flaps down, power off 48 kts

Wing Loading 14.7 lbs/sq ft (71.8 kg/sq m)

Power Loading 14.2 lbs/hp (6.4 kg/hp)

Engine: Textron Lycoming IO-360-L2A

180 BHP at 2,700 RPM

Propeller: 2-bladed Fixed Pitch, Diameter 76 in (1.9 m)

Specifications subject to change without notice.

Optional Equipment

Avionics

NAV I:

Standard Avionics Plus:

- KLN 94 GPS-IFR
- KLN-94 Data Cable
- KLN-94 Data Card
- MD 41-231 GPS-Nav Selector/Annunciator
- KX 155A Nav/Comm With Glideslope
- KI 209A VOR/LOC/GS Indicator With GPS Interface
- NAV Antenna Coupler
- CI2480 VHF-GPS Antenna w/Internal Notch Filter

NAV II:

Standard Avionics Plus:

- KLN 94 GPS-IFR
- KLN-94 Data Cable
- KLN-94 Data Card
- MD 41-231 GPS-NAV Selector/Annunciator (w/o MFD or HSI)
- KX 155A Nav/Comm With Glideslope (w/o HSI)
- KI 209A VOR/LOC/GS Indicator With GPS Interface (w/o HSI)
- NAV Antenna Coupler
- CI2480 VHF/GPS Antenna w/Internal Notch Filter
- KAP 140 Two-axis Autopilot With Altitude Preselect/GPS Roll Steering
- KCM-100 Configuration Module
- KS-270C Pitch Axis Servo Actuator
- KS-271C Roll Axis Servo Actuator

- KS-272C Elevator Trim Servo Actuator
- Annunciator Panel w/ Pitch Trim Light Exchanged w/ standard Annunciator Panel

- Directional Gyro - w/Heading Bug Exchanged w/standard Directional Gyro (w/o HSI)

- Pilot Control Wheel - Pitch Trim Switch/AP Disconnect Exchanged w/standard Pilot Control Wheel

NAV III Avionics Package: Not Available until 2nd Quarter 2005

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

- CI-102 Marker Beacon Antenna

- GTX-33 Transponder-Mode S w-TIS

- CI-105 Transponder Antenna

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

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

- CI2480 VHF/GPS Antenna w/Internal Notch Filter #1

- CI2480 VHF/GPS/FIS Antenna w/Internal Notch Filter #2

- CI-511 Attenuators (2)

- CI-120 NAV Antenna

- GDU-1040 Primary Flight Display (PFD)

- GDU-1040 Multi-Function Display (MFD)

- GEA-71 Engine/Airframe Computer

- CHT/EGT Sensors-All Cylinders

- Fuel Flow Meter

- Tachometer/Vacuum Sensors

- GRS-77 AHRS

- GDC-74 Air Data Computer w/OAT Probe

- GMU-44 Magnetometer

- KAP-140 Autopilot-Dual Axis/Altitude Preselect/GPS Roll Steering

- KCM-100 Configuration Module

- KS-270C Pitch Axis Servo Actuator

- KS-271C Roll Axis Servo Actuator

- KS-272C Pitch Trim Servo Actuator

- Pilot Control Wheel-Pitch Trim Switch/AP Disconnect

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

- 3000-11 Emergency Locator Transmitter

- Emergency Locator Transmitter External Antenna

- Emergency Locator Transmitter Remote Mounted Switch

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

- Mic & Phone Jacks-Pilot/Copilot/Passengers

- Auxiliary Stereo Input Jack

- Deck Skin Cooling Fan #1-Instrument Panel

- Avionics Cooling Fan #2-PFD

- Avionics Cooling Fan #3-MFD

- Aft Avionics Cooling Fan #4-Avionics Equipment

- LED Lighted Switch Panel

- LED Light Circuit Breaker Panel

- Blind Turn Coordinator for KAP-140 Roll Rate Data

- Backup Single Pump Vacuum System-Dry

- Standby Battery Controller

- Standby Battery, 24 volt 6.2 AH

Backup Attitude Gyro, Airspeed & Altimeter Indicator
Standard Avionics Removed
Standard Switch/Circuit Breaker Panel Removed
Standard Flight Instruments Removed
Standard Digital Clock & OAT Probe Removed
Standard Engine Instruments Removed
Standard Fuel Pressure Sensor Removed
Standard Annunciator Panel Removed
Standard Test/Day/Night Switch Removed
Standard Glareshield Lighting Removed
Standard Dual Vacuum System-Dry Removed

Air Conditioning

Keith Products (STC)

ADF: with NAV I & NAV II only

KR 87 ADF

KI-227 ADF Indicator

KA-44B ADF Antenna

MFD: with NAV II only

KMD 540 Multi-function Display

KMD-540 Data Card

CSE Avionics Selector/Annunciator

NAV/GPS (w/o HSI)

FIS & EGPWS Wire Provisions

SSD-120-30A-RS232 Blind Encoder
Exchanged w/ Standard Blind Encoder

Exterior Striping Options

517B: Light Charcoal Metallic, Light Navy Vinyl Stripes; Light Charcoal Metallic Vinyl Cessna Logo and Registration Number; Light Charcoal and Light Navy Vinyl Skyhawk SP Logo

517C: Burgundy Metallic and Pewter Metallic Vinyl Stripes; Pewter Metallic Vinyl Cessna Logo; Burgundy Metallic Vinyl Registration Number; Burgundy Metallic and Pewter Metallic Vinyl SkyHawk SP Logo

Interior

Leather Seat Surfaces
Mink Leather, w/ Perforated Mink Leather Insert / Mink Vinyl

CESSNA'S LIMITED WARRANTY (SINGLE ENGINE PISTON AIRCRAFT)

Cessna warrants the aircraft and all parts included therein are free from defects in material and workmanship under normal use and service for a period of twenty-four (24) months after delivery to the original retail purchaser or first user, except as hereafter noted. Cessna's limited warranty also applies to aircraft paint; however, the warranty period for aircraft paint is twelve months after delivery of the aircraft to the original retail purchaser or first user. Engines, engine parts accessories, avionics, batteries and propellers, are specifically excluded from this warranty. Replacement spare parts sold by Cessna, excluding engines, engine part accessories, avionics, batteries and propellers are warranted for 6 months after installation or first use, except as hereafter noted. Cessna's obligation under this warranty is limited to repairing or replacing with new, overhauled or exchange parts, at its option, any part or parts found defective by its examination which are returned by the owner within the applicable twenty-four (24) or six (6) month period to any Cessna appointed or Cessna Contracted Distributor appointed Service Station. Replacement parts are warranted only for the remainder of the applicable twenty-four (24) or six (6) month original 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, sales and use taxes on replacements. 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 and appearance items (paint, upholstery, rubber-like items, etc.) due to wear and exposure.

TO THE EXTENT ALLOWED BY APPLICABLE LAW, THIS LIMITED WARRANTY IS EXPRESSLY IN LIEU OF AND CESSNA SPECIFICALLY DISCLAIMS AND EXCLUDES ANY AND ALL 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 ARE THE ONLY REMEDIES UNDER THIS WARRANTY.

CESSNA DISCLAIMS AND EXCLUDES ALL OTHER OBLIGATIONS AND LIABILITIES WHETHER IN CONTRACT OR IN TORT, INCLUDING LOSS OF USE, LOSS OF TIME, LOSS OF VALUE, INCONVENIENCE, COMMERCIAL LOSS OR ANY OTHER DIRECT, CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGES.

Textron Lycoming Warranty (Limited) New Reciprocating Aircraft Engine What Textron Lycoming Promises You

Engine Model	Aircraft Model
IO-360-L2A	Cessna-172R, 172S
IO-540-AB1A5	Cessna-182T
IO-540-AC1A5	Cessna-206H
TIO-540-AK1A	Cessna-T182T
TIO-540-AJ1A	Cessna-T206H

Textron Lycoming warrants the above listed engine model new reciprocating engine sold by it to be free from defects in material and workmanship for a period of twenty-four (24) months after aircraft delivery to the original retail purchaser or first user.

Textron Lycoming's obligation under this warranty shall be limited to its choice of repair or replacement, on an exchange basis, of the engine or any part of the engine, when Textron Lycoming has determined that the engine is defective in material or workmanship. Such repair or replacement will be made by Textron Lycoming at no charge to you. Textron Lycoming will also bear the cost for labor in connection with the repair or replacement as provided in Textron Lycoming's then-current Removal and Installation Labor Allowance Guidebook. Any engine or part so repaired or replaced will be entitled to warranty for the remainder of the original warranty period.

YOUR OBLIGATIONS

The engine must have received normal use and service. You must apply for warranty with an authorized Textron Lycoming distributor within 30 days of the appearance of the defect in material or workmanship.

Textron Lycoming's warranty does not cover normal maintenance expenses or consumable items. The obligations on the part of Textron Lycoming set forth above are your exclusive remedy and the exclusive liability of Textron Lycoming. This warranty allocates the risk of product failure between you and Textron Lycoming, as permitted by applicable law.

Textron Lycoming reserves the right to deny any warranty claim if it reasonably determines that the engine or part has been subject to accident or used, adjusted, altered, handled, maintained, or stored other than as directed in your operator's manual, or if nongenuine Textron Lycoming parts are installed in or on the engine and are determined to be a possible cause of the incident for which the warranty application is filed.

Textron Lycoming may change the construction of engines at any time without incurring any obligation to incorporate such alterations in engines or parts previously sold.

This limited warranty is exclusive and in lieu of all other warranties and representations, express or implied or statutory, whether written or oral, including but not limited to any warranty of merchantability or fitness for any particular purpose, and any implied warranty arising from any course of performance or dealing or trade usage. This warranty is also in lieu of any other obligation, liability, right, or claim, whether in contract or in tort, including any right in strict liability in tort or any right arising from negligence on the part of Textron Lycoming, and Textron Lycoming's liability on such claim shall in no case exceed the price allocable to the engine or part that gives rise to the claim.

LIMITATION OF LIABILITY

In no event, whether as a result of a breach of warranty, contract, or alleged negligence, shall Textron Lycoming be liable for special or consequential or any other damages, including but not limited to loss of profits or revenues, loss of use of the engine, or cost of a replacement.

No agreement varying this warranty or Textron Lycoming's obligations under it will be binding upon Textron Lycoming unless in writing signed by a duly authorized representative of Textron Lycoming.

Cessna Model Aircraft Only
Textron Lycoming
Williamsport, Pennsylvania
Original Engine Installation Only
Effective 1996

McCauley Propeller Systems Standard Limited Warranty

McCauley Propeller Systems, a Division of Cessna Aircraft Company, Wichita, Kansas, U.S.A., expressly warrants new and remanufactured products produced and sold by McCauley to be free from defects in material and workmanship under normal use and service for a period of thirty-six (36) months after delivery to the original retail purchaser or until the expiration of the maximum hours of use or calendar limits for overhaul published by McCauley for the subject product, whichever occurs first.

McCauley's obligation under this limited warranty is limited to repairing or replacing, at its sole option, any propeller, propeller parts, governor parts determined by McCauley to have been defective and which are properly returned by the owner, with a written statement describing the alleged defect, to any McCauley Authorized Service Center authorized to service the individual McCauley product. The repair or replacement of defective parts will be made without charge to the owner for parts, or labor for removal and installation, except export/import duties, and/or sales or use taxes, if any which are solely the owner's responsibility, McCauley will warrant a part replaced pursuant to this limited warranty under the same terms as the original part for the remainder of the applicable warranty period of the original part. This limited warranty is not intended to and does not cover the costs of normal maintenance of overhaul.

In addition, McCauley will **repair or replace**, at its option, any propeller, propeller parts, governor, or governor parts requiring replacement due to manufacturing defect if found at or before the first recommended overhaul interval as described in McCauley published service information. This first overhaul coverage does not include labor, standard overhaul replacement parts, parts repairable via published service information (re-plating, painting, etc.), other costs associated with the propeller or governor overhaul, or export/import duties, and/or sales or use taxes, nor does it apply to defects found after McCauley published overhaul hour or calendar limits. The provisions of this limited warranty do not apply to: any McCauley parts which have been subject to misuse, negligence or accident or which have been repaired or altered in any way that, in the sole judgment of McCauley, adversely affects their performance, stability or reliability; to normal maintenance services (such as cleaning, mechanical adjustments and maintenance inspections); to the replacement of service items made in connection with normal maintenance; to normal deterioration of soft trim and appearance items (such as paint and rubber-like items) due to wear and exposure; to propellers, governors or parts found defective beyond the McCauley recommended overhaul period; or to parts which have been improperly installed by entities other than McCauley and/or McCauley Authorized Service Centers.

The McCauley limited warranty is void on any new or manufactured product installed, without McCauley's prior written approval, on a non-type certificated engine, or on any engine which has received an overhaul or modification which is not approved by the engine manufacturer and that results in a change to the vibratory environment of the engine such as, but not limited to, an alteration of horsepower, operating RPM, crankshaft damper configuration, compression ratio, magneto timing, camshaft design, or any other overhaul or modification not expressly approved by the original engine manufacturer. The McCauley limited warranty is also void on any McCauley product shipped new from the factory or distributor in dis-assembled state, then later re-assembled by an unauthorized party. Parties authorized to re-assemble factory-new product must have specific written permission from McCauley to do so, otherwise all McCauley warranty on the affected unit is void. No McCauley warranty coverage is offered for leakage on product assembled outside McCauley, regardless of the assembling party.

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 SET FORTH HEREIN ARE THE ONLY REMEDIES UNDER THIS LIMITED WARRANTY. McCAULEY DISCLAIMS ANY OBLIGATION OR LIABILITY, WHETHER IN CONTRACT OR IN TORT, INCLUDING LOSS OF USE OF THE PRODUCT WARRANTED, LOSS OF TIME, INCONVENIENCE, LOSS OF PROFITS, COMMERCIAL LOSS, OR ANY OTHER DIRECT, CONSEQUENTIAL, SPECIAL, OR INCIDENTAL DAMAGES. THIS WARRANTY IS IN LIEU OF ANY OBLIGATION OR LIABILITY ON THE PART OF McCAULEY TO ANYONE OF ANY NATURE WHATSOEVER BY REASON OF THE MANUFACTURE, SALE, LEASE, OR USE OF THE WARRANTED PRODUCTS AND McCAULEY NEITHER ASSUMES NOR AUTHORIZES ANYONE TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH WARRANTED PRODUCTS. THE UNITED NATIONS CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS, 1980, AND ANY SUCCESSOR THERETO, IS EXPRESSLY EXCLUDED FROM THIS WARRANTY.

Bendix/King Equipment Retail Warranty Statement For Cessna Aircraft Company Single Engine Program

A. General Aviation Avionics products manufactured by Honeywell under the brand name Bendix/King (collectively referred to herein as "Honeywell") are warranted against defects in design, material, or workmanship caused by Honeywell or its authorized agent(s) for the warranty period as defined in Paragraph (B) of this statement, which occur under normal and intended use and service, subject to all of the qualifications and conditions hereinafter stated.

B. The warranty term for new product(s) installed on new aircraft shall be twenty-four (24) months from delivery to the original retail purchaser or first user. Cessna to provide warranty start date information.

C. Any product Honeywell finds to be in violation of the warranty as set out in Paragraph (A) hereof, at the option of Honeywell, shall be repaired, replaced, or exchanged in accordance with the following procedures:

1. Products shall be returned to any authorized Honeywell Service Center or Honeywell Regional Product Support Repair/Overhaul Facility, with transport charges prepaid.
2. After correction, the products shall be returned to the purchaser with surface transportation charges prepaid.
3. The risk of loss or damage to all products in transit shall be borne by the party initiating the transportation of such products unless the purchaser makes a request for specific mode of transportation. In such case, the risk of loss and the cost of shipment shall be borne by the purchaser.

All items repaired or replaced hereunder shall be warranted for the unexpired portion of the original warranty period.

D. This warranty specifically excludes defects that Honeywell determines to be the result of any or all of the following:

1. Abuse, accident, or misuse;
2. Contamination, negligence, tampering, or improper storage or maintenance;
3. Repair or attempted repair by unauthorized persons or use of non-Honeywell or unauthorized repair or replacement parts;
4. Products not installed by an authorized Honeywell Installation Facility in accordance with the appropriate installation manual.

E. The warranty as set out in Paragraph (A) is the only warranty for Honeywell products and is in lieu of all other warranties expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose that are herewith expressly excluded and disclaimed.

F. The remedies as set out in Paragraph (C) hereof state the entire liability of Honeywell and constitute the sole and exclusive remedy of the purchaser. Honeywell shall not be liable for any other claim, loss, or damage, including, but not limited to, incidental, consequential, or other kinds of damages whether based on contract, tort, negligence, or other theory of product liability.

G. Honeywell reserves the right to make design changes, additions to, and improvements in its products without the obligation to install same in products previously manufactured.

THIS IS A LIMITED WARRANTY
Honeywell
23500 W. 105th Street
Olathe, Kansas 66061

Garmin Avionics Installed in Single Engine Aircraft

Aircraft OEM-Installed Avionics 2-Year Limited Warranty Policy

This GARMIN Product is 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.

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.

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Olathe, Kansas 66062, U.S.A.
Toll free: 1-800-800-1020
Phone: 1-913-397-8200
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