



B E F O R E



COMPLETE REBUILD



A F T E R



COMPLETE REBUILD



CubCrafters Services has become the standard by which all Super Cub rebuilds are measured. We have been rebuilding, flying, buying and selling Piper Super Cubs since 1980. Our modified and refurbished cubs fly higher, farther, faster, and slower carrying more passengers, volume, and weight of cargo than the folks at Piper Aircraft ever imagined. Our highly specialized crew of Super Cub rebuilding experts can build a better, stronger, lighter, and more powerful airplane than the factory ever did. Under our care, your Super Cub will receive the finest and most complete airframe overhaul available at any cost. We will not cut corners or produce a less than thoroughly rebuilt Super Cub.

Our years of experience with modifications and rebuilds have shown us where the “weak links” are found in a Super Cub’s fuselage. By reinforcing those weak areas, we are able to fix problems before they have a chance to develop, providing a long lasting trouble free aircraft that won’t let you down when you are depending upon it. A little extra effort and knowledge during the rebuild of your cub will pay dividends for years to come. We can replace some of the old heavy components that were designed with 1940’s technology such as starters, oil coolers, and batteries with much lighter components saving precious pounds and adding to the performance and safety of your aircraft.

Your Super Cub will leave our facility better equipped, lighter, stronger, safer and more capable than when it left the factory! With all this improvement comes a fabric job that shows our pride of craftsmanship and attention to detail. You’ll be proud to own and fly a “Super Cub by CubCrafters.”

We have designed this brochure to aid you in deciding what features to incorporate into the rebuild of a very special Super Cub built especially for you. Please take the time you need to become familiar with each of the optional modifications that we offer as well as all of the standard features incorporated into each cub we rebuild.

“The (rebuilt) plane is great. We flew yesterday afternoon for an hour or so and I am thrilled to be back in the seat of a cub. Thanks to you and Stan and all of your crew for a job well done. I think the plane looks great and flies even better.”

A. Harris Brown - Monroe, LA

Planning a complete rebuild project involves several key components. Here are the basic pieces:

CHOOSING YOUR PROJECT AIRPLANE

You may already be the owner of this airplane or you may require our assistance to locate a suitable candidate for a rebuild. Perhaps we already have one in our used cub inventory you would like. Occasionally we are asked to rebuild an airplane with many missing parts or one that has structural damage. In such cases the damaged parts will be repaired or suitable replacements will be found. Repairs and replacements will be estimated and charged at our normal shop rate for time and materials. You may also choose to have a new project airplane fabricated using all new FAA certified parts. We build a new Super Cub with zero total airframe time. Call for price and availability.



CHOOSING YOUR ENGINE

We have a good selection of engines available to choose from. We have factory new 180hp engines as well as low time 180's, 150's and 160's available. If your project airplane has a run-out engine, it can be exchanged for one of our engine packages or you may opt to have your engine rebuild by the engine shop of your choice.

CHOOSING YOUR OPTIONAL MODIFICATIONS

As questions arise, jot them down and get answers before you proceed. By becoming informed as to each options' assets and liabilities, you'll be able to truly fly your dream machine!

Once you have your project airplane, your engine choice made, and your optional modifications chosen, you're on the home stretch! Check with us to confirm the date we will start your project and when you can expect delivery of your airplane. Most of the projects are finished in 12-16 weeks from the start date.

STANDARD REBUILD FEATURES:

- Wings and tail feathers are removed.
- Airframe is completely disassembled.
- The complete airframe is inspected for corrosion, previous improper repairs, hidden damage and overall condition.
- The fuselage, tail feathers, struts, landing gear and miscellaneous small pieces are sandblasted with fine (70-grit) sand to remove all paints and surface corrosion.
- All components are inspected.
- Each piece of the airplane will be in "new" condition before it is accepted.
- Many airworthy parts are replaced with new or modified parts to meet our high standards.
- All steel parts are primed with a 2-part zinc chromate epoxy primer or zinc enriched powdercoat with second black powdercoat.
- A fresh Annual Inspection is signed off.
- A one year limited warranty on our quality workmanship.

ORGANIZED PAPERWORK FILE ESTABLISHED TO INCLUDE:

- An updated equipment list.
- Any new Flight Manual Supplements required by various STC's.
- Miscellaneous paperwork to be kept with the aircraft records.
- Current weight and balance data.
- FAA 337 forms explaining details of modifications incorporated in your rebuild.
- STC's approving various modifications.

REPLACEMENT OF THE FOLLOWING INCLUDED IN EVERY COMPLETE REBUILD:

- Window channel felts.
- Door seals.
- Aircraft wiring.
- Control cables.
- Fabric interior.
- Landing gear shock cords.
- Wood wing tip bows.
- Fabric covering.
- Wing root panels.
- All removed 'AN' hardware.
- Floorboards and baggage floor.
- Non-slip inspection covers.
- Side windows, windshield, and skylight.

Now you can choose the luxury you desire or the utility you need! Our various optional modifications are time tested, safe, and functional to meet your expectations in a CubCrafters' product.

As you look over the brochure, all of the items with a are included in our complete rebuild. If you see options that you want incorporated into your project just mark each box and we will discuss the items with you. If you have questions, our expert sales staff is standing by to help you! Your cub will leave here in "like-new" condition...

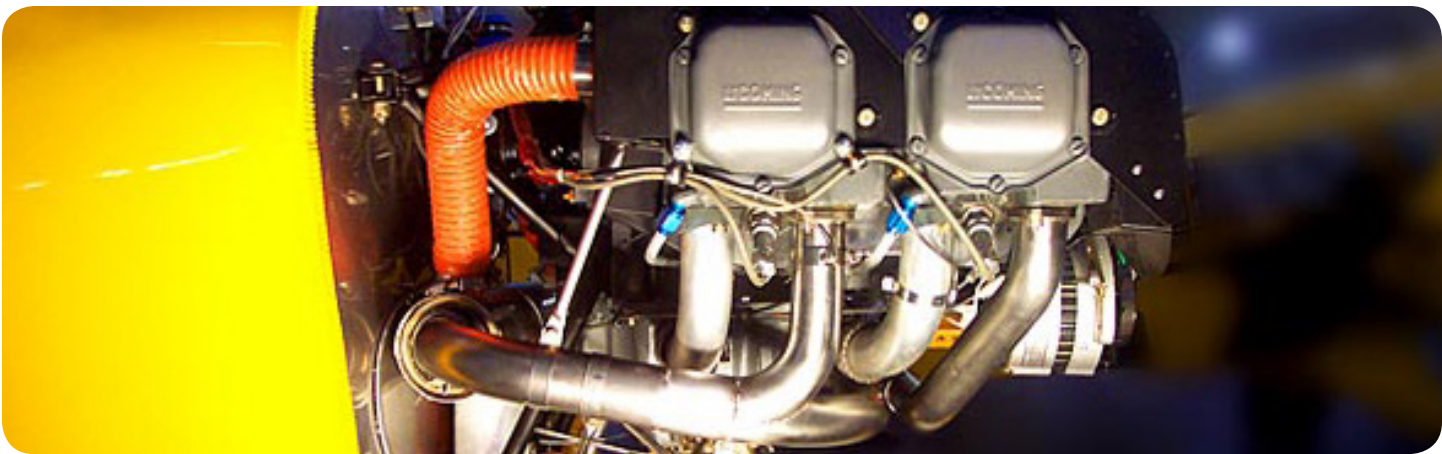
...Something you will be proud to fly!

OPTIONS LIST



ENGINE & ACCESSORIES

- 180HP Lycoming Engine Installation**\$51,250
We've spent years refining this 180HP installation. Experience the ultimate Super Cub performance! This installation saves weight and gives you nearly a 50% increase in climb.
 - **Factory New Engine**
 - **Modified Exhaust System**
(A slip joint is installed in each exhaust stack to prevent cracking.)
 - **Modified fuel system removes header tanks**
 - **Fiberglass Split Cowl Assembly**
(Attractive and functional - this fiberglass cowl fits the wider 180HP engine and aides in serviceability.)
 - **Lightweight Aluminum Oil Cooler**
(Typically allows oil temps to run 40° cooler than standard oil coolers. Mounted on the left rear.)
 - **New Carburetor Airbox**
- New 180HP Baffle Set - Includes hardware** \$1,800
- McCauley 82" 180HP Climb Propeller - (40" to 44" Pitch)** \$5,195
- Sensenich 76" 180HP Propeller - (52" to 56" Pitch)** \$4,390
- 150HP Lycoming Engine - Allow 2-3 months for delivery on the O-320's** \$32,490
- 160HP Lycoming Engine - Allow 2-3 months for delivery on the O-320's** \$32,490
- McCauley "Borer" Propeller** \$4,200
Experience a 43% increase in static thrust and a 25% reduction in takeoff distance. Propeller bolts included; pitches available in 41-44" for 150HP or 160HP.
- Sutton Exhaust Installation**..... \$2,500



- McCauley "Borer" STC Only - For O-320 engine installation** \$150
- Sensenich M74DM Propeller - New** \$3,680
- Sensenich Bolt Kit** \$295
- All New O-320 Baffles - Includes everything except the inner cylinder baffles** \$1,808
- B&C Lightweight Starter - High quality and lightweight! Saves 9 lbs!** \$595
- Sky-Tec Lightweight Starter** \$499

- B&C 40-Amp Alternator And Lr3 Regulator** \$1,195
- 2-Piece Split Muffler Shroud** \$375
No more cracks - this split shroud is much easier to inspect every 50 hours!
- 2-Piece Front Heat Muffler Shroud** \$245
- 150/160HP HD Exhaust Stack** \$1,380
- 180HP HD Exhaust Stacks W/Slip Joints** \$1,950
- New Boot Cowl With Stainless Steel Firewall** \$1,895

LANDING GEAR

- (4) New 1280HD Shock Cords**
- (4) 1280HD Cold Weather Shock Cords** \$140
- Weld-On Fueling Steps** \$170
You won't need a ladder to fill up - allows most people to look inside the fuel tank.
- Standard Length Landing Gear**
- Standard Length HD Landing Gear** \$1,350
- Non-Covered Gear** (\$200)
For the real bush pilots. We leave the fabric off the gear and you save money. Plus you never have to worry about putting your foot through the gear fabric.
- 3" Extended HD Landing Gear 1-1/4" Axle** \$1,500
Our uncovered 3" Extended gear has the weld-on refueling steps and lower shock struts included.
- Standard Or Extended Landing Gear Safety Cables** \$250
These stainless steel cables may save you a lot of headaches if you land too hard.
- AOSS (Alpha Omega Suspension System)** \$3,300
This new design shock absorber/suspension system puts an end to the "slingshot" effect in the rebound from hard landings caused by the old design rubber shock cords.
- 3x3 Landing Gear 1-1/4" Axle** \$2,250
Our uncovered 3x3 gear includes the weld-on refueling steps, cabane vee, and lower shock struts.

WHEELS & BRAKES

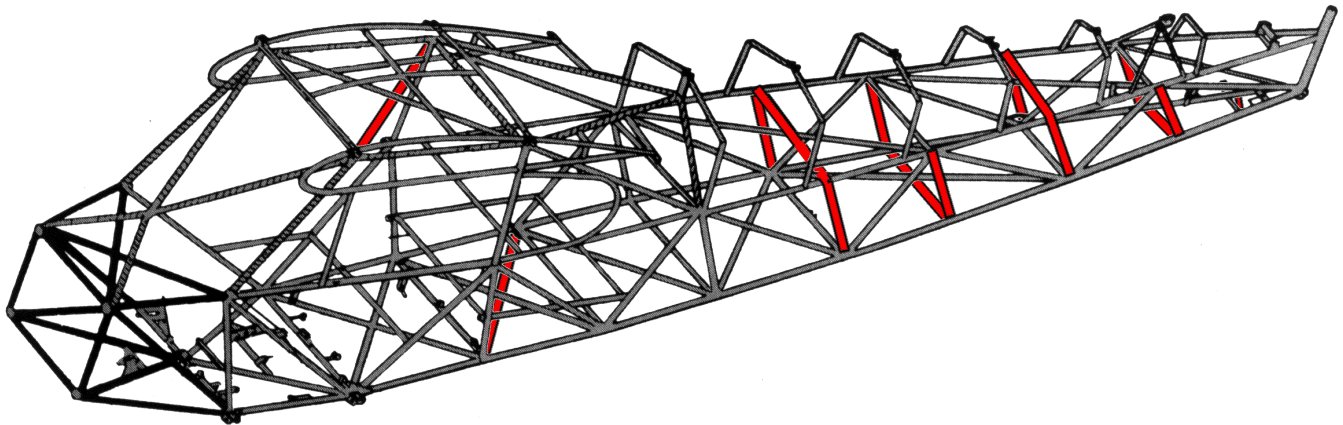
- 6:00x6 Cleveland Wheels & Brakes 1-1/4" Axle - The same as '77 and newer Super Cubs** \$1,800
- 8:00x6 Tires - Pair** \$395
- 8:50x6 Tires - Pair** \$675
- 26" Goodyear Tundra Tires** \$1,500
Get in and out of those rough spots easy and smooth out the road - makes your Cub stand tall and proud.
- Inner Tubes For 8:50 OR 26" Tires - Each** \$95
- 26x12x6 Alaskan Bushwheels** \$2,850
- 29x13x6 Alaskan Bushwheels** \$3,270
- 31x13x6 Alaskan Bushwheels** \$3,580
- 35x15x10 Lightweight Bushwheels** \$5,200
Comes complete with brake disc, bolts, washers and nuts.
- High Pressure Brake Master Cylinder Assemblies** \$750
High pressure brake boosters triple brake pressure at the wheels - comes with lines and fittings.

WHEELS & BRAKES - continued

- Parking Brake SET**.....\$750
- One Piece Brake Lines**\$275
Recommended for HD & Extended gear.

TAILWHEELS

- ABI3200 Tailwheel Assembly - Replaces old Scott tail wheel**\$1,150
- Bushwheel 3200B "Baby" Tundra Tail Wheel**\$1,990
Reduces the tendency for the tail spring to bend with side loads - Includes wide fork and "baby" bushwheel.
- Standard Tailspring 1-1/4"**\$175
- Pawnee Tailspring 1-3/4"**\$225
Reduces the tendency for the tail spring to bend with a side load.



FUSELAGE

- New Pma'd Fuselage**\$14,770
Includes upper and lower doors, standard configuration. (Does not include freight)
- New Wide-Body Fuselage, 4" Wider**\$20,000
For the extra 4" this fuselage gives you it's worth the various modifications that will be necessary due to the wider area! Comes with upper & lower doors, cabane vee. (Does not include freight)
- Reinforced Fuselage Modifications**\$2,100
We beef-up your existing fuselage by reinforcing the tail cone, reinforcing the skylight (x-brace) adding a second fuselage handle and turning the "dog leg" brace 180° to allow a flat extended baggage floor to be added.
- 2000-Lbs Gross Weight Increase, Installed**\$6,995
Legally haul 250 more pounds than a stock Super Cub.
- 2000-lb GWI - With amphib float purchase**\$4,850

- Fuselage continued on next page -

FUSELAGE - *continued* **2300-Lbs Gross Weight Increase**

Increase your Super Cub's useful load by 550-lbs. Our STC allows for useful loads of over 1,100-lbs on wheels and over 800-lbs on Wipline amphibious floats. The following items are required for this upgrade:

- **STC SA01633SE Flight Manual and supporting documents** \$3,995*
- **New wings with reinforcements installed - uncovered** \$28,500*
(\$14,500 for LH and \$14,000 for RH)
- **Fuselage modifications required for Univair PA-18 fuselages built between '99-'07** \$2,900*
- **Or / New 2300-Lb fuselage** \$14,995*
- **New wing struts front and rear** \$2,500*
- **Vortex Generators** \$1,495*
- **Heavy duty 2-hole tailwheel and spring** \$1,670*
- **180HP STC and installation kit** \$6,949*
- **Heavy duty 3" extended landing gear with lower struts** \$1,995*

*(*Above prices assume a complete rebuild is in process. All items are uncovered, unpainted or unassembled unless otherwise noted. Any required components already installed will be credited to the customer.)*

- Metalize Fuselage** Call for price
Molten Zinc or aluminum effectively galvanizes the fuselage. The ultimate in corrosion-proofing. We will metalize the entire fuselage, tail feathers and struts.
- Plexiglas Bottom Door - Added visibility from the cockpit** \$995
- Side Access Baggage Door** \$1,195
Piper only put this door on its Ag models but we've found that easy access to baggage never hurt anyone and this is one of our most popular modifications.
- Tow Hook Installation** Call for price

INTERIOR

- CubCrafters' Deluxe Front Seat** \$595
- CubCrafters' Deluxe Rear Seat** \$595
Our world famous deluxe seats are 3" wider than the standard Piper. Seats are constructed with vinyl that resists the cold and comfortable cloth inserts that feel warm in the winter and cool in the summer.
- Fabric Side Panels**
Quieter and warmer, our cloth interior really improves the cockpit view.
- Aluminum Headliner** \$1,195
Protect the airplane and enlarge the baggage area. We can paint this black or your trim color.
- Map Pocket** \$195
Tired of fumbling around your feet to find your navigation aides? Our aluminum map pocket fits into the kick panel under the instrument panel and allows easy access to your charts.
- New Plywood Floorboards** \$750
Manufactured from high quality birch, these floorboards are attractive and durable.
- Leather Seats** \$2,495
For those who know and enjoy the look and feel of quality leather.
- Painted Side Panels** \$675
If you've decided against a fabric interior we can paint the interior panels any color you like.

- *Interior continued on next page* -





INTERIOR - continued

- Carpeting, Black** \$450
An added feel of luxury in the cockpit also quiets the plane down and catches sand and grit before it gets under the floorboards.
- Extended Baggage Compartment** \$1,295
- Full Width Extended Baggage With Net** \$1,595
If you've opted for fuselage welding mods we can custom build this super extended baggage compartment. Combined with a removable or hinged rear seat bar you can roll out a sleeping bag in your cub to get out of the rain. Complete with cargo net.
- Rear Underseat Storage Compartment** \$675
Fantastic place to safely and securely store your headsets and other valuables out of sight.
- Move Battery Under Rear Seat*** \$1,495
*Saves considerable weight; allows more baggage to be carried safely. (*Includes underseat storage box)*
- Hinged Rear Seat Crossbar** \$575
Allows easy access to your baggage area. Quick removal and reattachment.
- Removable Rear Seat Crossbar** \$375
Allows easy access to your baggage area. Comes completely out of the plane.
- Rear Stick Cover** \$250
Allows safe removal of the rear stick and covers the stub preventing jamming of the controls.
- 180-Lb Baggage Compartment / 3rd Seat*** \$795
*Allows a third passenger or up to 180-lbs of baggage behind the rear seat. You could even have a seat belt installed in this area. So you're ready to go either way. (*requires reinforced fuselage mod)*
- Stainless Steel Entrance Step** \$249
No scratches and no rust - period. It's prettier than your rusty painted steel model.
- Defroster Kit - Turn off the IFR conditions inside your cub!** \$725
- Inertia Reel Shoulder Harness (Front)** \$695
Our shoulder harness is comfortable, allows easy movement & adds that extra measure of safety.
- Floorboard Mount Attach, Seat Belt (Front)** \$595
Attach your seat belt to the floor - makes a safer installation and won't let you get pinned in the front seat.
- Inertia Reel Shoulder Harness (Rear)** \$695
Protect your passenger! This harness is positioned above the headliner for the best possible restraint location. (This is only available if you have a new fuselage not an original Piper)
- Folding Front Seat Mod** \$1,195

WINDOWS

- All New Clear Windows And Windshield**
We replace all of the felts and the glass. You had forgotten what a fantastic view you can get from a cub.
- Gray Tinted Plexiglas Windows** \$295
- Gray Windshield Only** \$225
- 3" Window Vent** \$30
These are great! Direct the right amount of air to just the right spot and stay cool.

FUEL SYSTEM

- Standard 36-Gallon Wing Tanks**
- HD Header Tank, Front** \$395
- HD Header Tank, Rear** \$395
- 50-Gallon Wing Tanks** \$5,500
- 48-Gallon Wing Tanks** \$5,500
- 61-Gallon Wing Tanks** \$9,000
If you need the extra range these give you plenty without changing the appearance of your Cub.
- Airglas 32-Gallon Belly Tank** \$5,210*
*The easiest and most reliable option for adding a full 32-gallons of extra fuel. (*Plus in-coming freight)*
- Airglas 18-Gallon Belly Tank / Cargo Pod** \$6,285*
*This 18 gallon tank is similar to the one above with a built-in cargo hold. (*Plus in-coming freight)*
- Airglas Cargo Pod** \$3,920*
*Airglas' STC'd Cargo Pod is certified on floats, wheels and skis and is approved to hold 140 lbs. It is equipped with side and rear baggage doors. (*Plus in-coming freight)*
- Firmin Cargo Pod - Installed and Painted** \$4,500*
*A STC'd pod equipped with side and rear doors - makes loading quick and easy! (*Plus in-coming freight)*

INSTRUMENT PANEL

- Existing Instrument Panel**
Keep your existing instrument panel. We'll clean it up with a new finish and reinstall it for you.
- New Airspeed Indicator** \$550
- Altimeter** \$995
- Tachometer** \$399
- Compass** \$250
- Electronics Int'l Digital Exhaust Gas Temp Gauge** \$499
- Scott Outside Air Temp Gauge** \$250
- Opt-1 (Combination Oil Pressure/Oil Temp.)** \$750
- Electronics Int'l Outside Air Temp Gauge** \$299
- Turn And Bank** \$999
- Electronics Int'l Digital Cylinder Head Temp Gauge** \$499
- Keyed Ignition Switch** \$399
- 8-Day Clock** \$250
- Fuel Sight Gauges - Removes the electric gauges** \$1,095

INSTRUMENT PANEL & RADIO PACKAGES



BEFORE



AFTER

New **Instrument Panel & Radio Packages** Coming Soon.
Prices to be determined.



SQUARE INSTRUMENT PANEL

CONTROL SYSTEMS, STOL KITS & WINGS

- All New Control Cables**
- Vortex Generators, Boundary Layer Research** \$2,495
Published 5-6 mph reduction in stall speed - this is one of our favorite performance enhancing mods; complete with tail strakes.
- Square Tail Surfaces - Larger elevators give you additional positive control** Call for quote
- Wing Struts, Life-Time, Sealed - Eliminate the AD note!** \$2,500
- Wing Struts 2300-lbs** \$2,900
- Stainless Steel Tie Down Rings** \$150
- Plane Booster Wing Tips Kit** \$4,995
- 2300-LB Wings With Reinforcements** Call for quote

*******Trade-in Wings Accepted -- Call for Pricing*******



LIGHTS

- Landing Lights - Left wing** \$1,500
- Landing Lights - Right wing** \$1,500
- Tail Strobe System** \$995
- Wing Tip Strobes** Call for quote
- 3-Point Strobe System** \$1,595
- 4-Point Strobe System** \$1,950

“The only comment came from our pilot who is an experienced bush pilot here in Kenya... ‘the best plane he has ever flown.’”
Robert Carr-Hartley - Nairobi, Kenya

PAINT & COVERING MATERIALS

- Stits Fabric Covering Through Silver
- Polyurethane Finish
- Late Model* Paint Scheme Or J-3 Paint Scheme
- Custom Paint Scheme - *Includes one trim color on white* Call for quote
- Additional Trim Colors - *Each* \$995

FLOATS & ACCESSORIES

- Wipline 2100 Straight Floats** - *FOB Minneapolis, MN* \$31,900
- Wipline 2100A Amphibious Floats** - *FOB Minneapolis, MN* \$51,300
One if by land, and two if by sea... Your midnight ride will be ready for anything with these top of the line amphibious floats. Overall base color to match aircraft is included. Floats come with landing gear advisory system, float rigging, weld-on float fittings, and FAA STC paperwork.
- Gross Weight Increase To 2000-lbs. - Installed** \$6,995
Must already be at the 1750-lb gross weight increase.
- Gross Weight Increase To 2000-lbs. - Installed with Float Purchase**..... \$4,850
Must already be at the 1750-lb gross weight increase. (floats not included in this price)
- Custom Paint Scheme On Floats** - *Trim color included in purchase* Call for quote
- Weld-On Float Fittings** \$1,995



CubCrafters warrants this aircraft after receiving a complete rebuild against defects in material or workmanship under normal use and service, for one year. This warranty shall not cover defects in material or workmanship relating to the engine or avionics. This warranty shall commence on the date of delivery and cover a period of one calendar year. CubCrafters agrees to repair or, at its option replace, any defective part without charge for parts or labor within the warranty period. All work is to be performed at CubCrafters’ facility in Yakima, Washington.

This warranty does not cover damage resulting from accident, misuse, abuse, neglect, fire, water, hail, lightning, improper storage, unauthorized modification, failure to comply with the Flight Manual guidelines, (any other hazard or act of God), or any other cause beyond the range of intended use except as deemed appropriate by CubCrafters.

Limitation of Liability: In no event, whether based on contract or tort (including negligence) shall CubCrafters be liable for incidental, consequential, indirect, special or punitive damages of any kind, including personal injury, loss of life, loss of revenue, loss of business, or other financial loss arising out of or in connection with the sale, maintenance, use, performance, failure, or interruption of its warranted products; even if CubCrafters has been advised of the possibilities of such damages. CubCrafters shall not be liable under this warranty if its testing and examination disclose that the alleged defect in the aircraft does not exist or was caused by the customer’s or any third party’s misuse, abuse, neglect, improper operation of the aircraft, hard landings, improper storage, unauthorized modification, failure to comply with the Flight Manual guidelines, or any other cause beyond the range of intended use.

This warranty is nontransferable. The following are not covered by this warranty:

- 1. Aircraft rebuilt by CubCrafters, but not specifically identified as receiving CubCrafters “Complete Rebuild” as defined by this brochure.**
- 2. Damage, deterioration or malfunction resulting from:**
 - Accident, misuse, abuse, neglect, fire, water, hail, lightning, improper storage, unauthorized modification, failure to comply with the Flight Manual guidelines, (any other hazard or act of God), or any other cause beyond the range of intended use.
 - Alteration, repair or attempted repair by a person(s) not authorized by CubCrafters.
 - Any other damages which do not relate to defects in parts or CubCrafters’ workmanship.
- 3. The cost of bringing any defective aircraft to CubCrafters’ facility for warranted repairs.**

Note: No other warranty, written or verbal, is authorized by CubCrafters. This warranty applies to aircraft rebuilt according to the terms of the Sales Agreement only. This warranty is valid only if signed by the owner of the aircraft and an authorized CubCrafters employee.

Signature of Owner

Date

CubCrafters Representative

Date



SPECIAL CONSIDERATIONS

Complete Aircraft Rebuild	\$59,500
Optional Modifications	\$ _____
Base Airplane	\$ _____
Washington State Sales Tax	\$ _____
Total	\$ _____

"This is for all the people at Cub Crafters Services who helped in rebuilding N4443Z. After flying the airplane back to Oregon, she seems to be all that we had hoped for and quite a bit more. We have a hard time trying to explain how much we appreciate the work that went into the rebuild. Logic tells us that airplanes are just machines and do not have a personality. After all those hours behind the stick, I have a hard time accepting that judgment. 43Z has had a long and happy career flying the "bush" in Alaska, and now she seems to be almost like new. She will head back to Alaska, later this spring, to take up her work of flying in the mountains and doing game survey work. She works in some of the most beautiful and special country that this planet has to offer. Sending her in such perfect condition is a real treat for us, and will be for those pilots who will fly her in the air taxi service at Sheep Mt., Alaska.

Now that we have the airplane back in our hangar, I have had time to inspect the details. Such things as the use of Adel clamps, cable ties, and how you have secured wires, hose, and tubing forward of the firewall start to stand out. Having built an RV6, I have some appreciation of what that entails.

The fabric work is beautiful. Part of what I had hoped for the rebuild was that Cub Crafters had such extensive experience in dealing with Cubs, that a lot of small but important details would be done better than if we had tried to do it ourselves. Such indeed seems to be the case.

A special thanks to Stan, Vera, Pete, Brian and all those other people who obviously put in such careful and meticulous work on making this happen."

Thanks, Gar and Jan Pessel - Prineville, OR

CONTACT US

CubCrafters Services, LLC.
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Yakima, WA 98903

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FAX: 509.853.2783

WEBSITE: www.cubcrafters.com

E-MAIL: stan@cubcrafters.com
vera@cubcrafters.com

BUSINESS HOURS:

Monday - Friday

8:00am to 5:00pm

Weekends by Appointment

VISIT US:

There are commercial flights into Yakima through Seattle or Portland. Once you arrive at the Yakima terminal, we are happy to pick you up. You may also rent a car and have a nice drive in the mountains.

We are about 2.5 hours from Seattle and about 3.5 hours from Portland or Spokane.

