

Long-EZ, Vari-Eze, Berkut, Cozy, 4-Stack Exhaust Pipes

All Stainless Steel, 1/4" Flange, 4-in-4 out, Purged Welds now with Ball Joints or Springs & Slip tubes at the flange

Thank you for requesting information regarding the Long-EZ 4-stack exhaust pipes by Dave Ronneberg of Experimental Aviation, described by Mike Melvill in the Canard Pusher; CP61-5, CP68-4, CP69-2, and CP77-11. And Central States Newsletter.

The reason for going to the 4-stack pipes is they are more efficient than a non-crossover, two into one exhaust (least efficient). With the 4-stack exhaust pipes you can expect about a 100 r.p.m. increase in prop speed or about a 8-h.p. increase in efficiency/power. Also the 321 stainless steel (a high temperature stainless) is more durable and lasting than mild steel pipes.

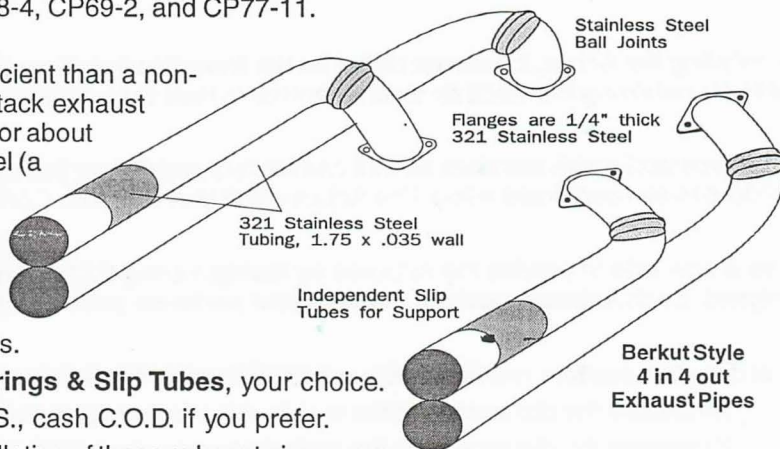
The all 321 stainless steel exhaust pipes are made on a welding jig, blue prints and instructions from Dave Ronneberg. The pipes are Tig welded, de-greased and purged ("back-gassed") with argon for the welds. Others do not de-grease or back-gas.

Berkut Style or Low Drag Hidden pipes, Ball Joints or Springs & Slip Tubes, your choice.

Pipes are in stock most of the time, and are shipped by U.P.S., cash C.O.D. if you prefer.

The **Berkut Style Pipes** have 4 pipes exiting the cowl, the installation of these exhaust pipes may require modifications to your cowl for proper fit. An installation sheet is included. If you order the **Low Drag Hidden Pipes** they exit through the rear baffel.

The pipes are for the Lycoming 0-235, 0-290, 0-320 and 0-360 and the Contintal 0-200 for the Vari-Eze.



Remote Mounted, 1-Micron, By-Pass, Oil Filter

A remote mounted Oil Filter that cleans oil down to 1-micron. Regular flow-thru oil filters only clean oil down to 25 micron particles. A "By-Pass" oil filter can be in addition to a "flow-thru" oil filter or you can use it alone. The by-pass oil filter "Tee's" into the high pressure oil system, then filters about 5 quarts every 3 to 5 minutes. If the filter becomes fully clogged it will not affect oil flow, because it is in the oil system by a "Tee". The filter comes with mounting bracket and hardware, hose, fittings.

<input type="checkbox"/> Springs & Slip Tubes	<input type="checkbox"/> Low Drag Hidden Pipes, Lycoming, exits through the Rear Baffel.	<input type="checkbox"/> Berkut Style
<input type="checkbox"/> Ball Joints	<input type="checkbox"/> Low Drag Hidden Pipes, Cont. 0-200 Vari-Eze exits through the Rear Baffel.	
_____ Stainless Steel Exhaust Pipes	@ \$500.00	= _____
_____ By-Pass Oil Filter Kit	@ 89.95	= _____
_____ Replacement By-Pass Oil Filter	@ 23.95	= _____
	subtotal	= _____
(In California, Sales tax)	@ 8.25%	= _____
Pipes, shipping and handling	@ 15.00	= _____
Oil Filter, shipping and handling	@ 7.00	= _____
COD (cash only) charges (U.S. only)	@ 8.00	= _____
	Total	= _____

For the best engine efficiency, letting your engine breathe the easiest, Installing both the "Airbox" and the "4-in-4-out" exhaust pipes works the best.

Although the Exhaust Pipes and Oil Filter have been carefully designed and we use quality materials, we have no control over their installation and use, therefore there are no warranties, either expressed or implied, including no warranties of merchantability. Dave Ronneberg, and/or Hal Hunt will not be liable for any incidental or consequential damages.

Signed, _____ date, _____
Name _____ Phone (____) _____
Address _____
City _____ State _____ Zip _____

Please send to: Hal Hunt, 6249 Longridge Ave., Van Nuys, CA 91401, or call (818) 989-5534. Shipped U.P.S. ground, COD cash only if you prefer. Please allow 4-6 weeks for manufacture and delivery. (Terms and conditions subject to change without notice. 10-2-95)

Long-EZ, Cozy Airbox

Ram Air intake with filter and carb heat valve.

Dave Ronneberg's design of a new Airbox improves the flow of air into a Long-EZ's carb. Replacing the standard Rutan 90 degree elbow and air filter on the firewall. After many iterations in design and tooling (all of which degraded performance) he hit upon the right balance of flow factors increasing engine top end performance by about 100 RPM, resulting in more power, about 8 more horse power.

By installing the Airbox, it reduces clutter on the firewall and makes maintenance to the mags, oil screen and other firewall items easier. By removing the stock air cleaner and carb-heat valve there is now more room for a remote mounted oil filter.

The Airbox works with standard aircraft carburetors and Ellison throttle bodies. Installing the Airbox is relatively simple using the standard Rutan carb installation. The Airbox will fit Vari-EZs with Cont. 0-200s but requires much user modification.

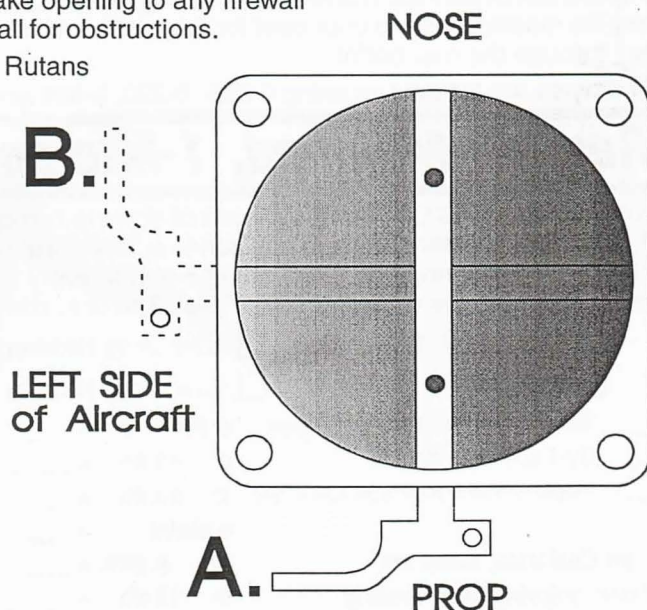
Dave is now able to provide the Airboxes by having a Long-EZ builder manufacture and distribute the Airbox from the molds he designed. Each Airbox is **custom made** to your particular engine installation, please allow time for us to build your AirBox..

To order your custom made Airbox: we need to know these items:

- _____ 1) measure the distance from the center of the carb intake opening to the firewall.
- _____ 2) measure the distance from the projected center-line of the carb intake opening to any firewall obstructions, measure 3" to the right and left of the center-line near the firewall for obstructions.
- _____ 3) **Circle A. or B.:** (See illustration below right) **(A.)** My Carb is installed per Rutans Plans, throttle shaft is fore to aft, throttle shaft arm is towards the prop.
(B.) My Carb is installed with the throttle shaft left to right of the fuselage, throttle shaft arm is on left side of airplane.
- _____ 4) Make and model of engine. (Lycoming 0-235 L2C, 0-320 etc.)

**Also Available: Large Space Saver
Electrical panel (3 3/4" x 13 1/4")**

_____ Airbox with re-usable Foam filter	@	\$345.00	=	_____
_____ Replacenet Foam filter	@	20.00	=	_____
_____ Large Electrical panel	@	45.00	=	_____
		subtotal	=	_____
(In California, Sales tax)	@	8.25%	=	_____
Shipping and handling	@	11.95	=	11.95
COD charges (cash only)	@	8.00	=	_____
		Total	=	_____



Carb, Looking from TOP Down

Although the Airbox, Electrical panel have been carefully designed and we use quality materials, we have no control over their installation, therefore there are no warranties, either expressed or implied, including no warranties of merchantability. Dave Ronneberg, and/or Hal Hunt will not be liable for incidental or consequential damages.

Signed, _____ date, _____
Name _____ Phone (_____) _____
Address _____
City _____ State _____ Zip _____

Please send to: Hal Hunt, 6249 Longridge Ave., Van Nuys, CA 91401, or call (818) 989-5534. Shipped U.P.S. ground, COD cash only if you prefer. Please allow 4-6 weeks for manufacture and delivery.

Terms & conditions subject to change without notice 1-15-95