

# EAA MILE HIGH CHAPTER 43

President Mark Yelich  
460-0228

Vice President Ken Lysek  
457-9769

Treasurer Roy Maneely  
371-3370

Secretary/Newsletter Mark Graf  
423-8125

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VOLUME 16, ISSUE 1

January 1993

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**This Month's Meeting:** The meeting this month will be held after our annual banquet on **SUNDAY**, January 10, at 6:00 p.m. at Gala Gardens restaurant at 8330 Rosemary St., Commerce City, Colorado. To get there take I-76 north to 88th Ave., 88th Avenue East to Rosemary, and Rosemary South to 8330 Rosemary. The map shows the restaurant on the west side of the street. You must have reservations to attend. When you arrive between 5:30 p.m. and 6:00 p.m., tell the hostess that you are with the EAA party. The dinner comes with coffee or tea, but other drinks are available at a normal cost.

**Last Month's CAFE 43:** No CAFE 43 was planned for December due to the holidays. The January CAFE 43 will be at Greeley airport. Ground pounders and pilots alike will meet at the airport at 11:00 a.m. on January 16, 1993.

**Last Month's Meeting:** With 40 members and guests present, the December meeting was called to order by Vice President Ken Lysek at approximately 7:45 p.m. President Mark Yelich was attending to business and could not attend. Guests present were Chuck Grow who has a Taylor Titch, Michael Hughes of Erie, Al Vail of Northglenn (Al flew with Dick Buick of "The Other Side of the Mountain" fame and is retiring from the "Rocket Ranch" (Martin Marrietta), Ted Lemen from chapter 301, Paul Weiss who flies at Cessena out of Parkland Estates, Jerry Wilson (Art Wilson's brother) who is building a T-18, and Ralph

Evens of Lakewood (John Evens' Father). Ralph has owned several types of aircraft and at one time owned a Howard PTA.

The minutes of the last meeting were accepted as published in the December newsletter.

Roy Maneely reported that we are solvent and will present a treasures report soon.

The annual officer elections were held with the following results:

President: Mark Yelich was nominated and re-elected.

Vice President: Ken Lysek was nominated and re-elected.

Treasurer: Roy Maneely was nominated and re-elected. The only dissenting vote was Roy's.

Secretary/Newsletter: Mark Graf was nominated as was Dick Vose. Mark was re-elected.

Vice President Ken Lysek was unsure if any Directors positions were scheduled for this election, but that we (chapter officers) would check.

Dean Cochran volunteered to be the custodian of the coffee pots until a new volunteer could be found. If you are interested, please contact one of the Officers or Directors.

## Old Business:

### Regional Fly-In:

Bill Mitchell reported that the Regional Fly-In Committee did not meet in December, and that there was nothing new to report.

### The Christmas/Annual Banquet:

The annual EAA banquet will at Gala Gardens, 8330 Rosemary Street, in Commerce City, on January 10, 1993 at 6:00 pm. Ron Denight has finalized the numbers with the restaurant and cannot take any more. Hope to see you there.

### ETC.

Rosters were made available by Ken Lysek. EAA calendars are on sale for \$5.00 each.

### Safety Corner:

Brad Davenport reported that the amount of MTBE in car gas has been increased to %15. This could have an effect on seals and sealants in aircraft operating with autogas.

Brad also reported that if your engine oil quick drain does not work, check for ice in the crank case. Several cases of crank case ice have been found in the area, and could cause considerable engine damage or failure if not corrected.

Lycoming has published a service bulletin prohibiting the use of Micro Ion oil additive.

Brad is asking for safety questions that you have that you would like to ask the FAA. Mr. Graves of the FAA is on the apron warming up, and with your input, can make the upcoming program beneficial to all of us. Remember, that there are no dumb questions, but a dumb mistake in the air is fatal. Show your interest, and pass your question on to Brad, his number is 666-5744.

## Gene's Corner:

EAA hoped to have MTBE removed from the prohibited fuel additive list by the end of the month. It is currently illegal to use even with the STC.

Dick Rutan lost his bid for a congressional seat last month. The Democratic incumbent was too entrenched and well financed.

There is photographic coverage of the Rocky Mountain Regional Fly-In in the December Sport Aviation including the Carl Williams Eaglerock our own Brad Davenport helped put in the air.

The FAA has filed a "Friend of the Court" brief in the Piper Cub product liability suit. This suit alleges that the traildragger design of the Cub is inherently dangerous and defective. This is the first time the FAA has ever done this, and was authorized by the bush administration. *Editors Note: A conversation followed that described a very entangled scenario that contributed to the accident. Apparently, the Cub was involved with an airport usage dispute, a vehicle was attempting to block the runway, and the modified CUB (front seat removed, video camera and cameraman "installed" in the plane", crashed into the vehicle thus causing the fatality.*

AOPA has recommended quick approval of GPS for aviation. Current estimates are that there are about 6,000 receivers already in the field.

**ATTENTION:** WAG AERO airworthiness review by the FAA is strictly voluntary. The U.S. Customs Service reportedly raided WAG AERO offices in June and confiscated customer lists. Allegations have been voiced that WAG AERO attempted to avoid payment of customs duties by illegally importing aircraft parts and avionics as "FAA Approved" and "TSO'd" when they

were not. The FAA is sending Airworthiness Review forms to customers and they are self incriminating. They could cause enforcement action. Don't respond if you have received one. It is voluntary.

Piper has delivered almost 100 aircraft in the past 9 months including 31 in the first 2 months of the 3rd. quarter of this year. Sales of spare parts have increased by 60% since July '91. The company had paid off it's secured lender's mortgage which a year ago totaled more than eleven million dollars. They now have 310 employees working.

The Navy has signed a new \$550 million contract to continue development of the V-22 Osprey tilt rotor. Once considered dead, the new contract calls for building four new aircraft and modification of two existing aircraft.

The FAA has imposed a \$20,000.00 fine on an individual who altered his pilot certificate to give himself "Commercial - Multi Engine - Land" from a Private ASEL". He flew professionally for more than four years including corporate. He was found out on a routine ramp check.

#### **NOT AT THE MEETING:**

New sectionals are here for the US. These include a new symbology for the Airspace Reclassification are finally available. The change deals with Class Delta airspace, a combination control zone (weather minimum rules) and airport traffic area. Class Delta airspace will be established only at airports that already have co-located control zones and airport traffic areas. Now the circular part of the control zone is indicated by blue dashed lines and the extension part of the control zone is indicated by magenta dashed lines.

The significance of this is in the blue circular area both the weather minimums (3

mile visibility, 500 feet below the clouds, 1000 feet above the clouds, and 2,000 feet horizontally from the clouds) and communications with the control tower requirements must be met. In the magenta extension area, only the weather minimums requirement must be met. these requirements are in effect from the surface to approximately 2,500 feet AGL. The top of Class Delta airspace will be rounded off to the nearest 100 feet. The first two digits of the upper limit, expressed in hundreds of feet MSL, will appear in brackets.

As a general rule of thumb, arrival extensions of two miles or less will remain part of the Class Delta surface area and communications will be required. For those extensions greater than two miles, the entire extension will be Class Echo, which does not require communications.

Per Washington D.C., "Unless otherwise prohibited, special VFR operations will be authorized above the surface areas of Class Bravo, Class Charlie, Class Delta, and Class Echo airspace".

#### **PROGRESS REPORTS:**

Brad Davenport reported that the number two Eaglerock is now flying, and that number 1 is at the Colorado Historical Museum (1300 Broadway) in an exhibit about the twenties.

Brad also reported his purchase of an Aeromat 100 power sailplane. It was at Oshkosh and is in one of the Sport Aviation magazines. The paper work is coming from Brazil.

Art Wilson and his brother Jerry brought in a video tape of Art's newly completed RV-6 flying. Ted Lemen completed the first test flight, and reported that it is a good airplane, and is easier to fly than a Luscombe. Art was all smiles as he reported that he has

flown off the test period hours.  
Congratulations Art!

Ib Hansen has completed the welding jigs for his Cassetts. He invites the Chapter to have a meeting at his shop in Arvada. Ib also relayed that he is stocking Sitka Spruce mahogany plywood, and can manufacture custom machine works for your homebuilt project.

Pete Clinton has his Flybaby completed, and has purchased a Skybolt project.

Jim Ernst has been working on the center section of his T-18.

### **PROGRAM:**

The program for the evening was provided by Ron Denight. He brought his father's Goodyear racer to the meeting on a cold snowy night. He also brought some of the history of the racer in drawings, logs and photos. Ron pointed out the modifications made over the years, and showed us how he plans to rebuild the little airplane.

The wing sections that Ron brought showed a composite construction with steel spars and wooden ribs. The wing sections were cut by a previous owner, so Ron will have to build up new wings to complete the project.

The history of number 97 showed some impressive performance figures for an 85 hp. engine.

Our thanks to Ron and Ib Hansen (I think I recognized Ib's trailer as the transport) for bringing the airplane to the meeting.

### **THE PRESIDENTS CORNER:** (as written by the Editor)

I hear that the December meeting went well. My congratulations to the chapter officers and thanks to those of you that braved the

elements to make it to the meeting. I also thank Ken Lysek for filling in for me while I was on business.

I would like to bring you up to date on some of the business issues affecting the chapter. We now have chapter handbooks from headquarters. All chapter officers should have one, but if you don't, please contact Mark Graf, and he will get you a copy.

Sport and General Aviation Inc. (SAGA) is publishing an international directory of aviation products and services, and advertises that it is the only publication to cover the entire world. We will be sending SAGA information about our chapter similar to what was handed out at the Front Range airshow, meeting dates, times, membership costs, etc. We will also be sending them information about the Regional fly - in. EAA members can get discounts on the directory if purchased through their chapter. If you are interested in advertising your aviation or other business in the SAGA directory, or are interested in purchasing a directory, contact Mark Graf, he will get you copies of the information that we have.

### **January Meeting**

Since we have moved our annual banquet from December to January, our January meeting will be held at the banquet on **Sunday** the 10th. Hope to see you there!

The Chapter got a Christmas card from Kathy (Sheeon) Grauerhole and her new husband Rick. If you wish to reply, her new address is 421 S. Welch, North Platte, Nebraska, 69101.

We are working on developing a chapter resource directory of our own. I envision information about individual's special talents and experience being included. This would include information like "Mike Doe, owned and rebuilt a Stits Playboy. Currently flies a

Cessena 182, and is acquainted with Cessena maintenance procedures.

The idea is not to commit anyone to being an expert, but rather to share each others experiences and talents. This could speed up your project (I wonder how to get to the wiring without tearing the wing off?) and make our projects safer (how did you do it, and what problems did you have?).

If you are interested in working on a project like this, please contact an officer. This along with an updated and expanded roster will make our chapter more supportive to you.

#### **EDITOR'S SCRIBBLINGS:**

Gene Horsmen sent some information about the Antique Airplane Association of Colorado, Inc. annual banquet and program. The banquet will be held on January 16, 1993 at Lowery Airforce Base, Officer's Club. The guest speaker will be pilot and astronaut Vance Brand of Longmont, CO. Mr. Brand is a test pilot, has orbited the moon, met Russian Cosmonauts in space, and is participating in the design of the NASA X-30 National Aero-Space Plane. It promises to be an interesting and entertaining evening. The antiquers are interested in extending the invitation to you and especially to young people (12 and up, your discretion). If you are interested, please contact Bev Cameron at 665-6352.

#### **CLASSIFIED ADS:**

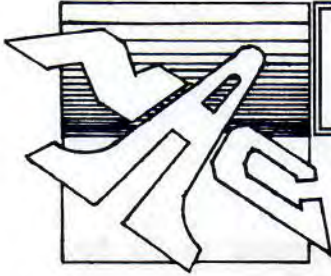
##### **FOR SALE:**

Continental A-65-8 upgraded to 75 hp., running when removed for engine swap. 2273 hrs TT, 1189 hrs SMOH, 575 hrs STO. Complete with tapered shaft prop hub, \$1250.00. Fuel pump for C85/C90 series \$50.00. Tapered shaft prop hub \$125.00. 1 piece of 4' x 4' of .040 2024-T3 \$40.00. 1 piece 3' x 5' of .025, 2024-T3. Gene Horsman 279-5782

##### **WANTED:**

I am looking for a workspace min 24' x 24' with power, security, and no noise restrictions (power tools). Heat if possible and a location as close to Golden as possible. A minimum cost on a long term lease is preferred. I know I'm asking for the moon, but I can't afford that either. Call Gene Horsman 279-5782 and leave a message if I'm not there.

→ The Flying Activities Line is  
766-3596 or 766-FLYN



## NATIONAL AERONAUTICS COMPANY

5611 KENDALL CT., UNIT #4  
ARVADA, CO 80002 • 303-940-8442 VOICE/FAX

December 13, 1992

Mark Yelich  
43 Denver  
13650 Silverton Dr.  
Broomfield, CO 80020-6034

Dear Mark:

I would like to introduce you to National Aeronautics Co. We are manufacturing kits for the CASSUTT Sport/Racer. This is a single seat aircraft of tube and wood construction that has been in existence since the early 1950's. The Cassutt is a high performance aircraft that is used for sport flying, pylon racing and general aerobatics.

Over the last year we have been building an inventory of tubing, wood, fiberglass and other machined items and hardware for the Cassutt. As you may know, parts for this plane have been hard to come by in the past. It is our intention to have kits available for interested builders and we can now say they are in stock. We are still working out some of the manufacturing details, but have overcome the major hurdles.

We are also working on a two seat prototype, expanding the design of the single seat model to accommodate two people. We plan to have this model flying sometime this spring. This aircraft will also be available in kit form.

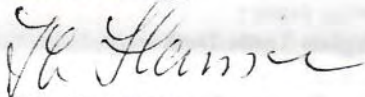
We have seen a lot of renewed interest in this plane, there are now four in Colorado. Enclosed you will find some additional information that can be shared with other members. We are offering a 10% discount for any Cassutt parts/kit orders between now and February 15th. We would appreciate a small mention of this in your newsletter or we can provide you with copy for your publication.

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One other item of note is that we are also a full service machine shop and can do custom turning and milling work for any builder. We have tubing, plywood wing skins, prop extensions, axles and spruce and fir in stock, as well as, other hardware items.

Please feel free to call and I look forward to meeting with you in the future.

Sincerely,



Ib Hansen  
President

Enclosures

# NATIONAL AERONAUTICS CO.

5611 KENDALL CT., #4

ARVADA, CO 80002

303-940-8442

## PRICE LIST

CA-100	Wrap Around Plex Canopy	95.00	FG-100	Fiberglass Combing for Racing Bubble	85.00
CA-105	Plex Bubble - Racer	175.00	FG-108	Fiberglass Cap for Wrap Canopy	85.00
CA-110	Plex Bubble - Aerobatic	225.00	FG-200	Engine Cowl, 5 pieces	* 425.00
CA-120	Canopy Frame & Latch Mechanism Kit	58.00	FG-200R	Engine Cowling for Racing Model, 4 pieces	*425.00
CA-120W	Canopy Frame & Latch Mechanism, welded	135.00	FG-250	Propeller Spinner, Kevlar	108.00
CO-100	Control System Kit	125.00	FG-300	Fiberglass Turtle Deck for wrap canopy	120.00
CO-100W	Control System Kit, welded	285.00	FG-305R	Fiberglass Turtle Deck for Racing Bubble	190.00
CO-200	Rudder Cables, Swaged Complete w/ Fork Ends	60.00	FG-310	Fairing Fuselage Sides, Top of Wing, set of two	56.00
CO-205	Pedal Kit (Rudder & Brake)	64.00	FG-315	Wheel Pants, pair	135.00
CO-205W	Pedal Kit, welded	125.00	FG-316	Wheel Pants, Brakes Faired In	150.00
CO-220	Throttle Quadrant, 2 Lever Side mount	42.50	FG-320	Fiberglass Fairings for Landing Gear Legs	45.00
DOC-100	Builders Manual	15.00	FG-325	Fiberglass seat	105.00
DOC-105	Brochure	5.00	FG-350	Belly Cover	55.00
DOC-110	Plans	125.00	FG-700	Fiberglass Wing Tips, pair	120.00
DOC-115	Newsletter (calendar year)	12.00	FS-100	Fuel Tank	290.00
EM-100	Stabilizer Kit, incl. elevator	185.00	FU-100	Fuselage Kit	510.00
EM-100W	Stabilizer Kit, welded, includes elevator	495.00	FU-100W	Fuselage, welded	* 1495.00
EN-100	Engine Mount Kit	65.00	GE-100	Wheels & Brakes 5:00 X 5	339.50
EN-100W	Engine Mount Kit, welded	170.00	GE-105	Axles, pair	71.00
EN-200	Exhaust Pipe Kit with Flanges, short 0-200, set of four	38.00	GE-110	Axle Nuts, pair	12.00
EN-200W	Exhaust Stack, welded, Short Stack, 0-200, set of four	85.00	GE-115	Spacers, set of four	12.00
EN-201	Exhaust Flanges, 0-200, set of four	18.00	GE-150	Hydraulic Master Cylinders	80.00
EN-202	Exhaust Pipes, Short Stack set of four	18.00	GE-540	Tail Wheel, Polyurethane	25.00
EN-205	Exhaust Stack - 2 into 1 for 0-200	250.00	GE-541	Tail Wheel Fork Kit	18.00
EN-300	Oil Suction Adapter for Inverted Flight	75.00	GE-541W	Tail Wheel Fork Kit, welded	45.00
EN-310	Oil Separator	65.00	GE-545	Tail Spring, Flatbar 1/4 x 1 1/2"	16.00
EN-400	Carburetor Heat Mix Box	75.00	GE-548	Round Tapered Tailspring	40.00
EN-500	4 " Propeller Extension, for 0-200	220.00	GE-550	Tailwheel Fork for GE-548, welded	40.00
EN-501	6" Propeller Extension for Racing Cowling	250.00	GE-560	Spring Steel Main Landing Gear	360.00
EN-550	12" Aluminum Spinner with front and back plates	110.00	GE-570	Aluminum Landing Gear	385.00
EN-600	Cover Plate Kit, 0-200, 4 pcs	48.00	HW-100	Attach Bolt Kit for Front Spar, Incl. Nuts, set of four	48.00
FC-100	Aileron Kit	144.00	HW-120	Eye Bolts for Rear Spar, pair	20.00
FC-100W	Aileron Kit, welded	238.00	HW-135	1/4" Pins for Control Hinges, set of seven	7.00
FC-120	Rudder Kit	85.00	HW-200	Fuel Tank Straps, set of two	30.00
FC-120W	Rudder Kit, welded	145.00	HW-300	Attach Plates for Front Wing Spar, pair	18.00
			HW-310	Attach Plates for Wing Rear Spar, set of four	24.00
			HW-320	Attach Plates for Spring Gear, pair	18.00



HW-350	Tapered Aluminum Spacer for Main Wing Spar, set of two	18.00
HW-500	Nylon Bushing, 7/8" Sleeve Rudder Cable, set of twelve	18.00
HW-510	Rod Ends for elevator push pull rod 3/8" x 1/4"	15.00
HW-600	Stringers, 1/2 x 1/2 x 1/16 x 12	7.00
HW-700	Engine Mount Inserts, set of eight	48.00
HW-701	Rubber Bushings for HW-700, 1 set (8 pieces)	16.00
SM-100	Firewall, Galvanized	35.00
SM-101	Firewall, Stainless .030	58.00
SM-110	Instrument Panel, Cut and Formed, No Holes	55.00
SM-170	Aluminum Bulkhead Cockpit, Rear	42.00
SM-175	Aluminum Floorboard	30.00
SM-200	Aluminum Cover Plates, Stabilizer Mount, set	14.00
WI-100	Wing Rib Jig	56.00
WI-115	Wing Ribs, Set - Racer Complete	800.00
WI-115K	Wing Rib Kit - Racer	275.00
WI-117	Wing Ribs, Set - Sport Complete	875.00
WI-117K	Wing Rib Kit - Sport	300.00
WI-200	Wing Spar, Douglas Fir, laminated.	395.00
WI-400	Wing Kit - Racer, Includes Gussett Kit	* 865.00
WI-500	Wing Kit - Sport, Includes Gussett Kit	* 895.00
WI-600	Rib Gussetts (468 cut to size, Racer)	175.00
WI-700	Rib Gussetts (520 cut to size, Sport)	185.00
WI-800	Wing Skins, Mahogany, 1/8", 3 ply 4' x 8' , 45 degree	190.00

**FOR SPECIAL ORDERS OR QUOTES ON ITEMS NOT LISTED PLEASE CALL 303-940-8442.**

Please allow 4 to 6 weeks for shipping.  
Prices subject to change without notice.

\*Certain items require additional crating for shipment, 5 pc set of cowls \$50.00, welded fuselage \$150.00, wings kits \$75.00, other fiberglass \$15.00.

All items are FOB Arvada., Colorado sent freight collect.

DOC-110 Plans for overseas shipment add \$20.00 for first class handling.

9/92

## PERFORMANCE AND SPECIFICATIONS

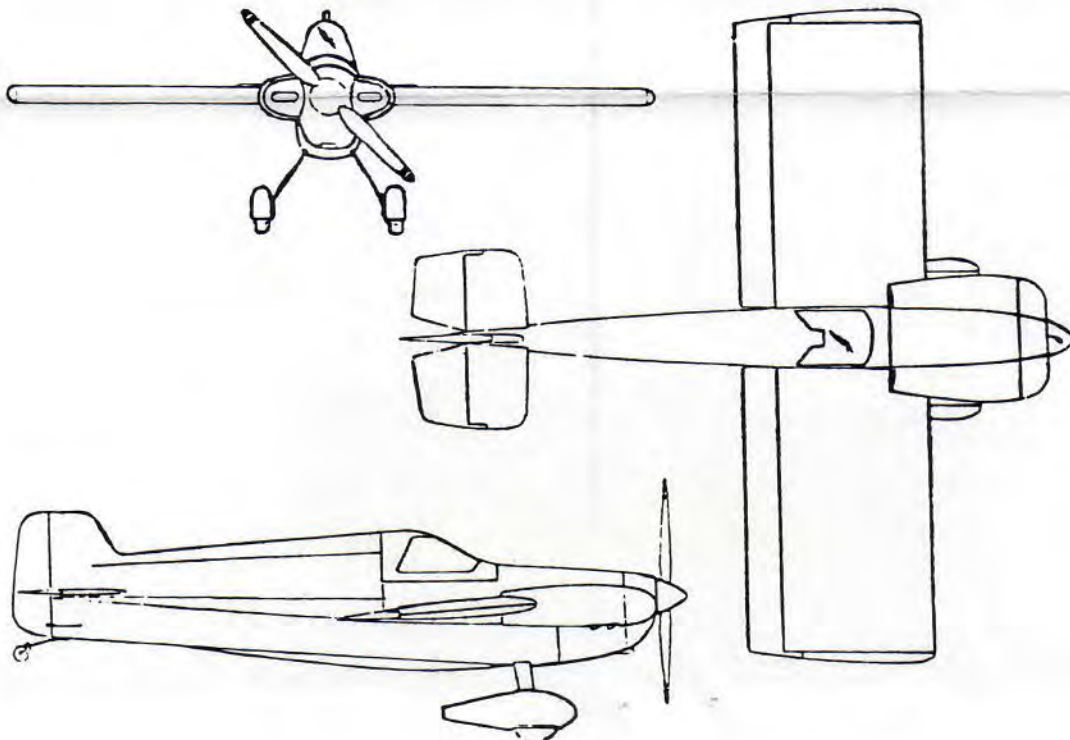
	<u>RACING MODEL</u>	<u>SPORT MODEL</u>
ENGINE	Continental	Continental
H.P.	85 - 100	85 - 100
WING SPAN	15'	17'
WING CHORD	54"	54"
WING AREA	67.5 Sq. Ft.	76.5 Sq. Ft.
WING LOADING	11.85	10.45
EMPTY WEIGHT	500 lbs	500 lbs
GROSS WEIGHT	800 lbs	800 lbs
LENGTH	16'	16'
HEIGHT	4'	4'
COCKPIT LENGTH	4'6"	4'6"
COCKPIT WIDTH	See Note 1	See Note 1
COCKPIT HEIGHT	See Note 1	See Note 1
FUEL CAPACITY	14 1/2 gal.	14 1/2 gal.
RANGE	490 MI (85 HP)	same
TOP SPEED	200 MPH plus (85 HP)	200 MPH plus (100 HP)
CRUISING SPEED	180 MPH plus (85 HP)	190 MPH plus (100 HP)
TOUCH DOWN SPEED	70 MPH	60 MPH
APPROACH SPEED	90 MPH	80 MPH
RATE OF CLIMB	1500 ft./min.(85 HP)	2,000 ft./min. (100 HP)
G LOAD LIMIT	6 1/2, see note 2	6 1/2, see note 2
WING FLAPS	See note 3	See note 3
TRIM TABS	None	None
AEROBATIC	Fully	Fully

Note 1. Length, height and width of canopy can be altered as desired during construction as required to fit builder.

Note 2. Officially demonstrated with sealed accelerometer on two occasions.

Note 3. A few builders have added flaps.

5/92





3 Lafayette

BOULDER COUNTY  
ADAMS COUNTY 5200

5 2400

9 7300

10 10500

3 ROOMFIELD

Thornton

Northglenn

Westminister

Thornton

Federal Heights

GALA GARDEN  
8330 ROSEMAR

Western Hills

Rocky Mountain Arsenal

Weiby

Commerce City

Stapleton International Airport

ADAMS COUNTY  
DENVER COUNTY

DENVER

DENVER

Edgewater

DENVER

Fitzsimons General Hospital

→ EAA Chapter 43 Newsletter  
c/o Mark Graf  
13784 West 69th Avenue  
Arvada, CO 80004



Eugene Horsman  
210 Lookoutview Ct.  
Golden CO 80401-2518