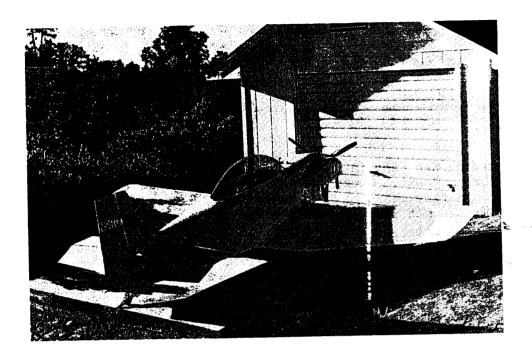
The recent flurry of fly-ins attended by Ken Rand in the turbo-charged KR-2 has started much speculation on where he will turn up next. Looks like Ken is out to show everyone the KR-2 isn't just a toy, but is a bona-fide means of transportation. Here are some figures Ken was getting on his recent midwest tour to Ohio via New Mexico and return:

Altitude...13,500 ft. Temp...45 F I.A.S...140 mph T.A.S...176 mph. Altitude...13.500 ft. This was at an economy cruise setting of a 23" M.P. at 3000 rpm with a fuel consumption rate of a miserly 3.6 gal. per hour. Almost 50 miles to the gallon...that is real economy! The engine gauges showed how much the Reymaster engine appreciated the low power settings, oil temp ran 190°F and CHT stayed at 380°F. An interesting side note, Ken was curious as to how the KR-2 would perform at the same power settings but with the gear extended so... down went the wheels. An immediate vibration and noise at first had him believing he had dropped more than just the landing gear but a check of all systems proved otherwise. Gear down, the airspeed stabilized at 118 IND (TAS 148) but immediately the oil and cylinder head temps began a steady rise. When they reached a red line of 220° and 450° respectively Ken raised the gear. As the airspeed increased, so the engine temps decreased until all stabilized at the previous readings. The rise in engine temperature was attributed to less airflow over and thru the engine at the slower airspeeds. Ken will be the first to admit his baffling is not the most efficient. All in all, the turbo-charged 2100 D Revmaster purred like a kitten the entire trip, just as it did on the previous trip to Oklahoma.

Are you running a turbo-charger on your engine? If so, you will be interested in averting a possible failure of this expensive little blower. The problem area here is one of lubrication and cure is a matter of technique. Let's say you've been static testing your engine maybe adjusting the carb, checking the pitch on the prop, or whatever. You've run the rpm up around 3000rpm, decided it's running OK and then you shut it down. Now, unless you let the engine idle for a least one minute before you cut the power, you have a turbo charger scroll turning at several thousand rpm with no oil pressure in a housing super heated from exhaust gasses. You can see this isn't conducive to long trouble free service from your turbo. Next time you run your engine, give that turbo-charger time to slow down before you stop the engine. A one minute idle isn't much and it can save you hours of time and many \$ later.

FLIGHT REPORT......For an update on my KR-1 (first flight report to you published in your Issue #20, Feb 77) I'll keep it brief. I flew first with a 36 hp engine which did fine until warm weather arrived. With OAT up around 80-90° I found my rate of climb was down to 100 FPM or so, so I decided to hang a bigger engine in it. Beefed up a 40 hp case with 83mm jugs and 50 hp heads (with Corvair exhaust valves) and after waiting about 9 or 10 months for a new prop, finally got it flying. Now have about 55 hrs on it, cruise prop gives me about 500'FPM climb on a 90°+ day, cruises at 135 mph indicated at 3200 RPM. Still flies beautifully but is somewhat squirrely on the ground. All in all, I'm having a ball with it. Hope someday I can fly it out to the west coast....John Shippey, Rte 3, Box 2708 Henagar, AL 35978.



KR-1 N9HD FOR SALE

The aircraft has been flown a little over one hour and handles like a dream. Engine is the 2100cc Revmaster. \$5500.00. Harry Downard, 1727 Old Oregon Trail, Redding, CA 96001. Phone-916-241-5470 NO COLLECT

One of our KR builders is a prop maker too. I saw a sample of his work at Oshkosh 77 and was impressed with the fine workmanship. As the picture testifies, the props come in a variety of shapes and sizes. Write to Harlan Anderson, Box 237, St. Ansgar, IA 50472.

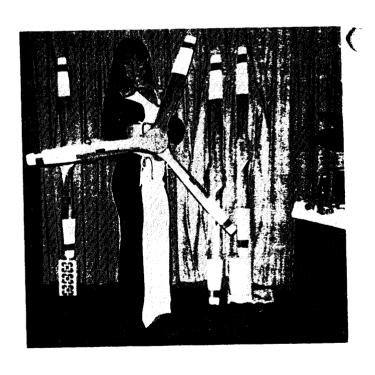
FOR SALE....1977 fuel injection unit for VW engine. Fits any dual port head engine...\$100.00. Ken Byrd, 235 Belmont #7, Long Beach, CA 90803 or phone 213-434-5102.

FOR SALE.....KR-2 project, all materials to finish, on gear, all metal parts have been made. Canopy, engine mount, etc., everything but the engine. #1700.00 or best offer. Steve Meltsner, 51 Arnoldale Rd., West Hartford, CT 06119 or phone 203-523-9351 after 6 pm (no collect calls)

WANTED.....A Zenith side draft carb and Barker cast intake manifold for VW. H.A. Anderson, Box 237, St. Ansgar, IA 50472.

VENNE KR CONSTRUCTION

Most experienced KR builder offers complete technical assistance, inspections, and construction. Charges to suit any budget...international inquiries welcome. 919 Grand Ave., Long Beach, CA 90804 or phone (213) 433-0520.



HAPPENINGS...Hollister "78" EAA Chap.
62 is hosting a fly-in July 14-16 at
Hollister, CA. Ken will be there with
the KR-2 on July 15 & 16. OSHKOSH "78"
July 29 thru Aug. 5, the silver anniv.
of EAA should be a great show. See
y'all there. Paul Venne (see ad) is
hoping to hitch a ride to Oshkosh
from S. Cal. If you have room, give
him a call.

SAFETY CHECK LIST

Spend some time with your plane and this check list before those first flights. Thirty minutes with a pencil here may be worth the rest of your life.

PROPELLER	Yes	No	ENGINE & ENGINE COMPT.	Yes	No	FUSELAGE — HULL (Continued)	Yes	No
1. Blades Laminations not separated?			All stacks in good condition — no cracks or rusted-out areas?			All pulleys of proper diameter for bends, proper size for cable, and		
Breaks, scratches, nicks, tipping?			Carb heat and cabin heat muffs re-			guarded?	<u> </u>	╀
Loose rivets in tipping?			moved and manifold inspected?		\vdash	All cable of proper size (%" min.) and condition?	L	
Drain holes in tip clear?			5. Controls All secured and safetied?			Any parts in system subject to rota-		
-						tion for any reason properly se- cured and safetied?	L_,	$oldsymbol{\perp}$
2. Hub Any cracks or corrosion?			No excessive play in any linkages?. No interference between any control		\vdash	Return springs on rudder pedals?		丄
Hub properly seated and safetied?			and the structure throughout the			No interference between any control part (cable, tube, or linkage) and		
3. Control Mechanism			'full operating range?	1		any other part of the structure		
Oil leaks?			Carb heater gate open & close fully?	 		throughout full control movement?	-	十
Worn bearings?			6. Mount Secured and safetied?			Adequate room for full control throw when aircraft is occupied?		
Secure?	l		All joints inspected for cracks?	l l		Controls arranged to minimize dan-		1
4. Attachment				l .		ger of blocking by foreign objects?	1	╁
All bolt & nut threads undamaged?			Any bends in mount tubes?	36		Grip properly secured to control stick or wheel?		
All bolts & nuts secured & safetied?			Bushings in good condition?	-		4. Electrical System		
5. Spinner			7. Cowlings Secured and/or safetied?	_		All grommets, particularly in fire-		1
Cracks?			All latches or fastenings working			wall, snug fitting and in good con- dition?		
Properly secured?			properly?			All wires of proper gauge, insulated.		
Is spinner chafing into prop?			Any cracks properly checked or re- inforced?			and secured? Wires do not rest on abrasive sur-		\vdash
ENGINE & ENGINE COMPARTMENT			Cowlings clean?			faces?		┼
1. Fuel System			8. Power Plant in General			Battery installation of sufficient strength?		
All lines of approved type?			All necessary safeties, palnuts, lock- nuts, etc. in place?			Battery properly ventilated and	1	Π
All strainers clean?			No fuel or oil leaks?			drained?		╀
All lines secured against vibration?			All accessories secured & safetied?			No corrosion at or around battery or its vents?		
Gascolator bowl at low point in sys- tem when aircraft is in normal ground position?			FUSELAGE HULL			Fuses of adequate amperage?		$oxed{\Box}$
Fuel drains operative?			1. Structure			5. Fuel System — Tanks		
All connections properly tightened?			All welds sound?		├	Drains properly located to discharge clear of aircraft?		L
2. Oil System			All tubing straight and uncracked?	<u> </u>	-	All outlets properly screened?	1	L
All lines of approved type?			No rust or corrosion?			Breather inlets clear?		
All lines secured against vibration?			All attach fittings sound, no cracks, elongation of holes or worn			Fuel shut-off valve installed?		Π
Oil tank has no cracks or leaks?			threads?	<u> </u>	<u> </u>	Fuel shut-off valve easily reached	1	T
Tank properly secured and safetied?			All rivets properly installed?		-	by pilot?	 	+-
All plugs and strainers cleaned and safetied?			Inspection openings for all vital areas?			All fuel lines of proper approved type?		_
3. Ignition—Electrical System			Fuselage properly drained, that is, no built-in moisture traps?			All fuel lines secured against vibration?		
All wiring proper type and gauge?		L_	Firewall of proper fireproof ma-			Is tank located so that sufficient		
All fastenings secured and safetied?			terial?	-	 	head is available in maximum climb with minimum fuel? Placard		1
Magnetos properly grounded?		 	2. Cover	1	1	if necessary?	\vdash	+
Spark plugs cleaned & undamaged?		<u> </u> -	Properly attached?		 	Has tank sufficient expansion area?	1	+
Spark plugs properly torqued?		-	No tears, distortions, or abrasions?	1	T	Any tank overflow discharge clear of hazardous areas on aircraft?		L
Engine grounded to airframe?	· .	 	Any breaks or ruptures properly repaired?		 _	Is tank support sufficient to meet	1	1
Starter/generator secured?			3. Control System	1		strength requirements?	-	╁
4. Exhaust Manifold			Properly secured and safetied?	<u> </u>	<u> </u>	Does tank clear surrounding struc- ture?	L	1
Secured and safetied?		-	Controls stops provided & adjusted?			Do tank supports minimize strain	Γ	Γ
All gaskets in good condition?			All fittings of proper thread & size?		T .	and chafing?		,



To insure its safe construction and operation, and to further emphasize the vital necessity for thorough consideration of every item which goes into your airplane, the following working check-list should be used, and it is sugaested that it be made a part of the aircraft records.

SAFETY CHECK LIST

	Yes	No.	EXITS (Continued)	Yes	No	WING-TAIL SURFACES (Cont.)	Yes	No
	1 62	140		1 69	```	All pulleys free from interference		
1. Can aircraft be cleared rapidly in case of emergency?	_	_	Is belt of correct size, that is, no long over-tongue?	-		and guarded?		
Are special precautions available during test period, such as jetti-			Is a separate belt and shoulder har- ness supplied for each occupant?	_		All torque tubes and bell cranks in good condition?	\vdash	
sonable doors or canopy? If parachute is to be worn, does it			6. Heating—Ventilation Is cabin or cockpit in negative pres-			No interference with fuselage or wing structure throughout full control travel?		
clear all controls?			sure area and liable to suck in exhaust fumes?			Fuel Tanks		
Baggage Compartment			Is any provision made for ventilating			See Fuselage Section Also		
1. Are walls and floors of sufficient strength to withstand flight loads?	<u> </u>		cabin other than normal leakage?	-	-	Are drains supplied at low point in tank when aircraft is in normal		
Can anything escape from baggage compartment by accident?	_		7. Windshield—Windows Are windshield and windows of rec-			ground position?	-	
Cabin—Cockpit		1	ognized aeronautical materials?	1 -	-	Fuel overflow drains clear of air- craft—no tendency for overflow to		ł
1. Instruments			Is windshield braced against posi-			soak into aircraft structure?		
Are all instruments functioning and	1		tive or negative pressures in flight, either by design or extra			LANDING GEAR	1	
accurate?	\vdash	-	bracing?	-	+-	LANDING GEAR	1	
Are all instruments marked, max pressures, temperatures, speeds?	L		WING TAIL SURFACES			Properly lubricated? Proper oleo inflation?	1	
Are all vital instruments easily Vis-			Fixed Surfaces				1	Г
ible to pilot?	\vdash	┼─	Are all interior fastenings secured and/or safetied?	1		Shock cords or springs in good con dition?		
2. Flight—Engine Controls			Is interior properly weatherproofed:	,		All attach fittings uncracked and sound?	1	
Are all engine controls marked or easily identifiable?	_	-	Have any mice been inside lately?		-	All bolts holes not elongated?	1	
Are all engine controls smooth in			Movable Surfaces	.		All attach bolts secured & safetied	·	↓
operation, without excessive resistance, & easily available to pilot?	<u>_</u>	↓_	Are stops provided, either at wing or somewhere else in the contro	i		Brake lines in good condition?	-	↓
Are all flight controls arranged so			system?		\top	Brakes operating properly?	.	—
that jamming by dropped gloves, etc. is impossible?		ـــــــــــــــــــــــــــــــــــــ	Are all hinges and brackets sound: Are all hinge pins secured and		十	Correct hydraulic fluid in lines?		
3. Fuel Systems	1		safetied?	·	+-	Wheels uncracked?		╁
Are all gas valves easily reached by pilot?			Is there any excessive play in hinges	1	+	Tires unworn & properly inflated:	1	╁
Are all gas valves marked ON, OFF,			Is there any excessive play in con trol cables or tubes?	-	-	Excessive side play in wheel bear ings?		<u> </u>
LEFT, RIGHT?	\vdash	1	External Bracing			CENEDAL	-	
Are all gas valves in such a position that accidental operation is im-	1		Is the interior of all struts weather protected?		+-	GENERAL ALL BOLTS, WHEREVER POSSIB	LE. F	HEAT
possible, or guarded in such a way that accidental operation is im-			Are all adjustable fittings locked secured and safetied?	١,		UP AND FORWARD.		
possible?			Are struts undamaged by bends o dents?	r		All exterior fastenings visible fro or cabin should have safetied e pilot, wherever possible.	m cond to	DW SI A
Are seats of sufficient strength for maximum flight loads contem-	1		Are all wires serviceable with proper end fittings?)-		A complete walkaround inspection craft should be accomplished to	checi	k tha
plated?	-	+	Attach Fittings		T	every bolt visible on the exter cured and safetied. That there is	ior i	is se
Does seat "flex" enough at any time to interfere with flight controls?	_	1	Are bolts of proper size installed		+	structural damage. That all inspects and covers are in place and	ection	ı par
5. Safety Belts and Shoulder Harness	1		Are all bolts secured and safetied		╁	That all parts of the aircraft are		
Is installation and attachments of sufficient strength to meet 9G for-	•		Have all bolts been examined fo wear?		+-	alignment. DON'T FORGET TO PUT IN ENC	UGH	GA
ward load minimum?	\vdash	+	Flight Control Mechanism	-		PRIOR TO THAT FIRST F GROUND RUNNING AND TA	XI I	TEST
Does attachment connect directly to primary structure?	` _	1	All cables and tubes unbroken of unbent & with proper end fittings	r 	\bot	CAN USE UP A LOT MORE T THINK!	HAN	YO
Are belts and harness in top condition?	-		All control attachments secured an safetied?			OK — Kick the tires, add anoth paint and AWAY WE GO.	er c	oat c

Is your KR ready for the first flight? Have you checked all the various pieces, parts, and systmes in your aircraft? The E.A.A. is a very safety conscious organization and the previous check list was borrowed from their service manual and recently reprinted in the E.A.A. Designee Newsletter. Many of you already belong to the E.A.A., those who don't, should. For more information, write to E.A.A., P.O. Box 229, Hales Corners, WI 53130.



A couple of months back I asked in the Newsletter for an indication of interest in a club for KR builders and pilots. The letters received were all in favor and some offered to help at whatever was needed (much appreciated). So...with the ideas suggested in your letters and with a few ideas of my own thrown in, we'll get the KR Club going.

Here is an outline of the suggested rules:

- 1. To be eligible for membership in the KR Club you must be:
 - A. Actively participate in one or more of the following,
 - 1. building a KR
 - 2. flying a KR
 - 3. owming a KR
 - B. Willing to participate in one or more club functions such as,
 - 1. meetings
 - 2. fly-ins
 - 3. pic-nics
 - C. Attend or participate in forums or seminars on the building and/or flying of KR aircraft.
 - D. A current subscriber to the KR Newsletter
 - E. A supporter of sport avaition in your community.
 - F. A holder of a current membership registration card (see application on back page)

The membership rules are already met by most all of you, they definitely aren't designed to keep anyone out. They are still subject to change if the membership so directs. The benefits derived from being a KR Club member will grow as the membership grows. A library has already been started and a list of books available follow next month.

There is no charge to members other than postage for the use of these books for one month from the time your request is received. After that, there will be a 25¢ per day late charge until the book is returned or replaceD. You can add to the list of books available if you are willing to share from your own library. Just send a list of titles of books or manuals you have and I will keep a current listing of such for other members to select from. The response to such ideas of sharing always amazes me, I can't think of any other sport, hobby, or whatever where so many do so much for each other.

A tool crib can be initiated. A list of tools willing to be shared by their owners (at the owner's convenience and supervision) can be kept so builders with need of such tools may contact the owners and make necessary arrangements. Use of materials and utilities, i.e. welding rod, electricity, etc. can sometimes be costly so you should take these into consideration before tools and equipment are used.

KR Club members will receive a registered membership card with a number. The number must be used by you when requesting any of the services offered to club members. A list of members living in a 100 mi radius of your residence will be furnished if you send a list of zip codes for that area. Overseas members will be sent a list of members in their respective countries or provinces.

The possibilites go on and on but I feel this is a basis on which to form the club. There will undoubtably be changes as time goes on and as a member you will have a vote in deciding those changes. Voting will be done on ballots printed in the Newsletter, one ballot per member

I spoke with Ken Rand about the possibility of him attending various meetings of the KR Club and he was very enthusiastic. He would have to be notified well in advance of such a meeting and it could not interfere with any prior committments. A meeting scheduled during a fly-in would be best. Meeting places can be anywhere, someone's garage, an unused corner in a hanger, at a city park or at a restaurant. The whole idea is just to get together and talk airplanes.

KR CLUB MEMBERSHIP APPLICATION

NA ME	1
ADDRESS	
ZIP or COUNTRY	
PHONE NUMBER	
I want to be a member of the KR Club. An organization for KR builders and pilots.	n for the education and advancement
*I have the following books or manuals I will share:	
*I have the following tools and equipment I will share	
Please send me a registered membership card and a lis	t of KR Club members in my zip code
area. SIGNED	,
KR Club membership dues are \$3.00 per year and will c June 30th. Fill out this application and mail to:	cover the period from July 1st thru
Frnest Konne	*It is not mandatory to have
6141 Choctaw Dr. Westminster, CA 92683	books or tools to share in order to become a member.

ERNEST KOPPE 6141 CHOCTAW DRIVE WESTMINSTER, CA 92683 ISSUE #37

