
Autobiography of L.F. (Randy) Randolph

Modeler since 1935 Birth Date: December 17, 1925 AMA Number: 10931

Written & Submitted by LFR (8/00)

Transcribed by NR (8/00)

Edited by SS (2002)

Career:

- Appointed to the AMA contest board by District VIII Vice President Frank Huffman
- Became an AMA Leader Member – Johnny Clemens, Bill Winter and John Worth signed his application
- District VIII Vice President Ted White appointed him contest coordinator; he held the job for 14 years
- Became an assistant vice president under District VIII Vice President George Aldrich, still holds that position.
- Author of two books, “Basics of RC Airplanes” and “RC Airplane Building Techniques”
- Author of 350 articles on modeling techniques in National magazines such as Model Airplane News, Model Aviation, RC Modeler, Flying Models and Model Builder

Honors:

- 1986 – AMA Superior Service Award
 - 1998 – AMA Pioneer Award
 - 2002 – AMA Hall of Fame
-

Born on the 22nd anniversary of the Wright Brothers' first successful flight at Kitty Hawk, it was inevitable that I would love aviation and airplanes. My dad and I would go to Love Field airport to watch the airplanes and bask in the dust and dirt blown back by the propellers of the old Fokker and Ford tri-motored transports. I honed my reading skills on aviation magazines learning wonderful words like longeron, aileron, fuselage, stabilizer and elevator. In the early 1930s barnstormers would fly into Dallas and land just west of the area now known as the Triple Underpass near the Kennedy assassination site.

On my ninth birthday when my aunt sent me a model airplane kit, it arrived somewhat crushed in the mail. The maze of sticks, sheets and tissue along with assembly drawings was a real puzzle. I had no idea I should build it over the plan, which looked like something that should be framed and hung on the wall! It was not a success and ended in the wastebasket. A year later my next attempt was more successful for I had discovered dime models! They were usually completed with unsightly paper gussets surrounding the glue joints, a common problem in my pre-wax paper era of model construction. They would glide, but not really fly! Only one, a Polish fighter, flew well enough to make it all the way to the street and under a car.

My first really successful flying machine was a glider called Whisper. It appeared in a Flying Aces magazine and could be launched catapult style with a rubber band. When launched, it would go up into a very high, half loop with a roll out on the top and settle into a very nice, wide circle. I lost five of them from the local schoolyard!

Like most kids of the period, a Brown Junior was my first engine. My first gas model was a Clipper, followed by a Zipper. Both flew enough to put me into bankruptcy by breaking propellers on every flight. Rule changes and my new Ohlsson 23 engine enabled me to win a

meet now and then. Also the newly-arrived Comet Interceptor became a good flying airplane, and I had good luck with an Ensign and a Brown Jr. powered Flagship. Both had good thermal-seeking glides but were out climbed by the hotter engines; neither survived war storage.

In those days my flying buddies were Bodie Hopkins and George Ogden, both excellent modelers. We built dozens of rubber-powered airplanes from Earl Stahl designs to the great Comet Sparky. That was the period just before World War II that we all became acquainted with U-Control. Although we built and flew Control Line airplanes on the local school yard, we ridiculed the practice and considered Free Flight the pure form of modeling! Bodie was killed flying the Hump during the war, but George and I were close friends until his death a few years ago.

During the summer of 1942, I worked for Johnny Clemens. He had gone into the wholesale hobby business, and I was his shipping clerk. The pay was small, but the discounts on model supplies were important, as well as a good insight into the hobby business. Johnny and I developed a friendship that lasted until his death. He was a true craftsman when it came to modeling and a good teacher, if you paid attention.

U-Control was the only type of modeling available while in service and by then I flew mostly my own designs. Almost anything could be made to fly under U-Control and they were quick to build. I had joined the Navy in 1943, and after boot camp at Faragutt, Idaho and Radio School at the University of Colorado, I was sent to Alameda for duty. I was attached to the post office, later the Marine Corps and finally as a code instructor in the Ground School, separating from the Regular Navy in early 1946.

Later that same year I became a member in the newly-formed Cliff Model Club and served in most of the elected offices. It seemed there was a Free Flight contest somewhere almost every weekend, and most of the club members attended all of them within a 50-mile radius. Under the tutelage of Ken Querman, I was introduced to Wakefield competition. My first and only attempt was a beautiful flying airplane that was totally useless in anything but dead calm weather, a rarity in Texas!

Since I had acquired an Amateur Radio license (W5FEG), I became fascinated with Radio Controlled (RC) because it appeared to eliminate the long chase after each flight! After winning the Clipper Cargo event at the Nationals in the early 1950s the prize money financed my first forays into the world of RC. Actually my early attempts were not very different from pure Free Flight. Once I abandoned commercial equipment and built a ground-based transmitter with good power and a hard tube receiver, I found that model airplanes could be controlled by radio. In the first RC contest I entered with my home-brew equipment, I placed ninth in a field of 27 and was very happy indeed! My friend Jesse Shepherd was the contest director and still has the records of that contest after nearly 50 years!

I began writing articles on VHF radio for an amateur radio magazine when the Technician Class Amateur license came into being allowing operation for that license class in the 50-54 MHz

band. I had been operating on that band with homebrew communication equipment for some time and felt it would, and should, become popular. Hopefully, some of my articles helped to popularize that very fascinating part of the radio frequency spectrum. When the 6 Meter Club of Dallas was formed, I was a charter member and for several years served as Net Control for the club's meeting frequency of 50.550 MHz.

During the International Geophysical Year I became interested in the space program with the intended launching of artificial satellites. I ground, polished and figured a 6-inch mirror and built a reflecting telescope. Though I had poor luck with satellites, I found the stars fascinating.

Model building had taken a back seat to these other pursuits together with earning a living and raising three children. There were a few Free Flight airplanes, kites and rockets built for my sons, but no modeling activity as such.

One evening in the late 1960s while building what I hoped would be the perfect communication receiver, I heard a local ham talking about the problems he was having learning to fly an RC airplane. I couldn't believe it could be that difficult with the new equipment available, so I consulted my old flying buddy George Ogden, who had kept up with the hobby during my quiet years. With some advice from George, I built a Ken Willard Showmaster from RCM plans and flew it with a three-channel EK Radio system. Power was a Golden Bee with an exhaust restricting throttle. On the third flight I was comfortable with the airplane and flew for an hour or so every morning before going to work.

After becoming interested in RC for a second time, I joined the Dallas RC Club. Currently the Club secretary, over the years I have held every elected office in the club and for a while published the newsletter.

I discovered that the so-called trainers of the day were not all that easy to fly unless you had an instructor handy. Lending my Showmaster to other fliers convinced me that a simple, light-weight airplane was the best way to learn. Over the next few years I built nine or 10 Showmasters and 20 or 30 different airplanes with engines in the .15 to .40 size range. All seemed to fly as well or even better than the Showmaster! As a result I submitted a construction article of an airplane called Misflit to Bill Winter at Model Aviation. At the same time I submitted one called Passkey to Bill Northrop at Model Builder magazine. To my great surprise both were published!

I was not happy with either article and thought I could do better; some 420 articles later I am still trying! I have always thought that simple, light-weight construction was the answer to enjoying model airplanes and have tried to sell that idea. Together with friend Joe Wagner, I formed the Small Model Airplane Lovers League (SMALL) that now has a web site, e-mail and members in the tens of thousands all over the world. It is an organization that has no dues, no officers and only one precept, the building and flying of small model airplanes.

While in the Cliff Model Club, District VIII Vice President Frank Huffman appointed me to the

AMA contest board where I served until relieved by the next administration. When I became an AMA Leader Member, Johnny Clemens, Bill Winter and John Worth signed my application, a document I wish I had copied before submitting for approval. Later, District VIII Vice President Ted White appointed me contest coordinator, a job that I held for 14 years until becoming an assistant vice president under District VIII Vice President George Aldrich, a job I still hold. I was awarded the Superior Service Award in 1986. I still have AMA 10931 issued to me in 1941 by Al Lewis when the AMA was three desks on the mezzanine of the Willard Hotel in Washington, D.C.

In 1997 a friend of Randy, Mr. Howard Chevalier, sponsored Randy for the Hall of Fame. In this Hall of Fame application was a letter that Mr. Chevalier included with the application.

Supporting Remarks

Ask any modeler: Who is Randy Randolph? The likelihood is that they can tell you. They will tell you that his articles, over 350, in model magazines and books have helped them to be a better modeler and that their first scratch built model was probably a Randy Randolph design. His articles "with the new or inexperienced builder in mind," in my opinion, have done more to cause youngsters to take up the hobby of model aviation than any other person.

He started building model airplanes in 1934. At that time a dime model could fly. His first contest model was built from plans in Flying Aces magazine that introduced him to thrill of losing it in a thermal. He was hooked! The balsa bug had bitten him.

His first gas-powered model was a Clipper powered by Brown Jr. He built other gas models, such as the Zipper, that were powered with the same engine. He first contest win was with a Zipper powered with an Ohlsson .23. While in high school he worked for Johnny Clemens at his Hobby Counter in Dallas building display models.

In 1941 he gave Al Lewis one dollar at AMA Headquarters in the Willard Hotel to become an AMA member and got number 10931 that he has to this day. (AMA member for 56 years)

It was after serving in World War II that he began a long and distinguished modeling career that contributed to model aviation as a competitor, designer, experimenter, leader, organizer and writer. In 1947 he was appointed to the AMA's Contest Board by Frank Huffman and helped start Cliff Model Club of Dallas.

A few years later, 1951, he began experimenting with RC and obtained an Amateur Radio License (W5FEG). He built his first transmitter and receiver from surplus parts and using a Bonner escapement he started building and flying RC models.

In 1977 he submitted his first design article to Bill Winter at Model Aviation. Not only was it

accepted, at Bill Winter's suggestion Bob Hunt, then editor of Flying Models, called him and asked for more articles. The rest is history. He has written over 350 articles and two books mostly with the new or inexperienced modeler in mind. Enclosed is a list of most of his publications.

In 1982 he was appointed to be Contest Coordinator for District VIII. A post he held until 1994. During that period he received AMA's Distinguish Service Award. In 1994 he was appointed to the position of District VIII Associate Vice President. A post he still holds.

In preparing this nomination I have talked to many modelers. To quote all the favorable comments about Randy would be too lengthy. However, the comment of the editor of Model Airplane News, Dr. Larry Marshall, sums up their opinion of Randy Randolph: "Randy has provided more building techniques information to the modeling community over the years than anyone. There are few people on earth with Randy's publication credentials. His involvement with SMALL development and the fact that people love his work are simply icing on the cake."

It is a privilege and honor to nominate L. F. (Randy) Randolph to the Model Aviation Hall of Fame.

Thank you for your consideration.

Howard L. Chevalier 3/6/97

The following is a list of Randolph's publications. The list is a scanned image of the original list turned in with Randolph's Hall of Fame nomination.

Randy's publication:

BOOKS:

"Basics of R/C Airplanes"
"R/C Airplane Building Techniques"

MAGAZINE ARTICLES:

AIRCRAFT 2CY: ARONCA C-3	FLYING MODELS	MAY '85	BASICS OF R/C: THINGS TO KNOW	MODEL AIRPLANE NEWS JULY '87
AIRCRAFT 2CY: BEE-TWEEN	MODEL AIRPLANE NEWS	JULY '91	BASICS OF R/C: THREADS	MODEL AIRPLANE NEWS DEC '89
AIRCRAFT 2CY: CHIPS	MODEL AIRPLANE NEWS	MARCH '90	BASICS OF R/C: TOOLS	MODEL AIRPLANE NEWS APRIL '87
AIRCRAFT 2CY: DIME	MODEL AVIATION	OCT '91	BASICS OF R/C: TRAINERS	MODEL AIRPLANE NEWS FEB '87
AIRCRAFT 2CY: DOUBLEDUTY	MODEL AVIATION	JUNE '87	BASICS OF R/C: TRANSMITTERS	MODEL AIRPLANE NEWS NOV '86
AIRCRAFT 2CY: DRAGGIN' BY	R C MODELER	OCT '80	BASICS OF R/C: TRIM YOUR PLANE	MODEL AIRPLANE NEWS SEPT '87
AIRCRAFT 2CY: FD-25	FLYING MODELS	SEPT '96	BASICS OF R/C: TURNS	MODEL AIRPLANE NEWS NOV '87
AIRCRAFT 2CY: FRUSKEY	FLYING MODELS	JAN '88	BASICS OF R/C: VENUCLAR	MODEL AIRPLANE NEWS APRIL '86
AIRCRAFT 2CY: G-MAN	MODEL AIRPLANE NEWS	APRIL '88	BASICS OF R/C: WATCH OUT!	MODEL AIRPLANE NEWS AUG '87
AIRCRAFT 2CY: GEEHAW	FLYING MODELS	FEB '89	BASICS OF R/C: WHEEL MOUNTING	MODEL AIRPLANE NEWS APRIL '90
AIRCRAFT 2CY: HOMER	R C MODELER	FEB '81	BASICS OF R/C: WHICH TRAINER	MODEL AIRPLANE NEWS DEC '88
AIRCRAFT 2CY: IRONSIDES	MODEL AVIATION	JAN '84	BASICS OF R/C: WHICH KIT?	MODEL AIRPLANE NEWS FEB '86
AIRCRAFT 2CY: KEYTWO	MODEL AVIATION	DEC '89	BASICS OF R/C: WHICH SYSTEM?	MODEL AIRPLANE NEWS FEB '89
AIRCRAFT 2CY: LIL' EASY	MODEL AIRPLANE NEWS	FEB '93	GEN: 1.2.3 KICK AGAIN	MODEL AVIATION FEB '86
AIRCRAFT 2CY: MAROONEY	R C MODELER	MAY '81	GEN: 1.2.3 KICK	MODEL AVIATION MAY '84
AIRCRAFT 2CY: MILES MAGISTER	FLYING MODELS	MARCH '95	GEN: 2ND ANNUAL SMALL STEPS FLY	MODEL AIRPLANE NEWS MAY '90
AIRCRAFT 2CY: MISFLIT	MODEL AVIATION	DEC '78	GEN: BALSA STRIPPER	R C MODELER JAN '80
AIRCRAFT 2CY: MISS DIAMOND	MODEL AIRPLANE NEWS	SEPT '89	GEN: BANDSAW MOTOR MOUNT	MODEL AVIATION DEC '82
AIRCRAFT 2CY: MODESTY	MODEL AVIATION	JUNE '80	GEN: BUILDING BOARD	MODEL AVIATION FEB '83
AIRCRAFT 2CY: NACHO	FLYING MODELS	MARCH '85	GEN: CARVE WOOD PROPS	FLYING MODELS MAY '82
AIRCRAFT 2CY: NEIGHVOIN	MODEL AVIATION	JULY '82	GEN: CLEAN IT UP (ENGINE)	MODEL AVIATION AUG '81
AIRCRAFT 2CY: NICKLE	MODEL AVIATION	NOV '88	GEN: CLEAN POTS	MODEL AVIATION JUNE '79
AIRCRAFT 2CY: ONE STEP	MODEL AVIATION	SEPT '81	GEN: DONT FORGET, CLEAN	MODEL AVIATION MARCH '81
AIRCRAFT 2CY: ONECENT	MODEL AIRPLANE NEWS	AUG '90	GEN: ELECTRA KIT REVIEW	MODEL AIRPLANE NEWS JULY '87
AIRCRAFT 2CY: ONESTONE	MODEL AVIATION	JULY '79	GEN: ELECTRICUB KIT REVIEW	MODEL AIRPLANE NEWS APRIL '88
AIRCRAFT 2CY: PASKEY	MODEL BUILDER	JUNE '78	GEN: FUSE JIG	MODEL AVIATION OCT '80
AIRCRAFT 2CY: PONG	FLYING MODELS	MAY '81	GEN: GREAT PLANES CUB REVIEW (adebar)	MODEL AIRPLANE NEWS SEPT '96
AIRCRAFT 2CY: PONG TWO	FLYING MODELS	FEB '84	GEN: IRON ON HINGES	MODEL AVIATION APRIL '79
AIRCRAFT 2CY: SEMPER FI	R C MODELER	DEC '79	GEN: LAZY BEE KIT REVIEW	MODEL AIRPLANE NEWS SEPT '94
AIRCRAFT 2CY: SPIRIT OF '74	MODEL AIRPLANE NEWS	JULY '89	GEN: LIGHTER TAIL FEATHERS	MODEL AIRPLANE NEWS JULY '91
AIRCRAFT 2CY: STITCHEN	MODEL AVIATION	APRIL '81	GEN: MINI SUKHOI REVIEW	FLYING MODELS JUNE '96
AIRCRAFT 2CY: TWILIGHTER	MODEL AIRPLANE NEWS	OCT '80	GEN: MIRAGE 550 KIT REVIEW	MODEL AIRPLANE NEWS AUG '89
AIRCRAFT 2CY: TWILIGHTER (AGAIN)	MODEL AIRPLANE NEWS	DEC '88	GEN: MOUNTING WHEELS	MODEL AVIATION APRIL '92
AIRCRAFT 2CY: TWILIGHTER II	MODEL AIRPLANE NEWS	DEC '87	GEN: MOUNT SMALL SERVOS	R C MODELER FEB '82
AIRCRAFT 2CY: YNOT	MODEL AIRPLANE NEWS	MARCH '91	GEN: ON GLUEING	MODEL AVIATION MARCH '83
AIRCRAFT 4CY: EASY	MODEL AIRPLANE NEWS	MAY '87	GEN: PRODUCT REVLW., PT-20	MODEL AIRPLANE NEWS DEC '86
AIRCRAFT 4CY: HAWKSHAW	MODEL AIRPLANE NEWS	JAN '86	GEN: RIB FABRICATION	R C MODELER FEB '80
AIRCRAFT 4CY: STROKER	MODEL AVIATION	APRIL '85	GEN: ROUND LEADING EDGES	MODEL AVIATION JULY '83
AIRCRAFT 4CY: WEEKENDER	MODEL AVIATION	NOV '85	GEN: SHEETING THE EASY WAY	MODEL AVIATION JULY '87
AIRCRAFT ELEC: ELECTRICLITER	MODEL AIRPLANE NEWS	MARCH '89	GEN: SMALL STEPS FLY-IN (8th)	MODEL AIRPLANE NEWS FEB '96
AIRCRAFT ELEC: MINDNOWATT	MODEL AIRPLANE NEWS	MAY '82	GEN: SNUFF CAN TANK	MODEL AVIATION JAN '79
AIRCRAFT ELEC: YARD BIRD	MODEL AIRPLANE NEWS	FEB '82	GEN: STARS AND BALLS	MODEL AVIATION FEB '80
AIRCRAFT RUB: CUB CRUISER	FLYING MODELS	MAY '85	GEN: STRIP SHOW (AIL)	MODEL AVIATION JAN '81
AIRCRAFT RUB: LIL' PIECES	MODEL AVIATION	MAY '83	GEN: SUPER SHEETING	MODEL AIRPLANE NEWS JUNE '81
AIRCRAFT RUB: NO-CAL CUB	MODEL AVIATION	SEPT '85	GEN: TEXAS OUTLAW KIT REVIEW	MODEL AIRPLANE NEWS APRIL '90
AIRCRAFT RUB: OBSERVER	MODEL AIRPLANE NEWS	AUG '84	GEN: THE ELECTRA	MODEL AIRPLANE NEWS JULY '87
BASICS OF R/C: ADHESIVES	MODEL AIRPLANE NEWS	JUNE '86	GEN: THE NEXT DIMENSION	R/C CAR ACTION FEB '87
BASICS OF R/C: HAD VIBES	MODEL AIRPLANE NEWS	SEPT '89	GEN: THE THERMAL CHARGER	MODEL AIRPLANE NEWS MAY '89
BASICS OF R/C: BALANCE AND TRIM	MODEL AIRPLANE NEWS	SEPT '87	GEN: TIP TIPS	R C MODELER SEPT '80
BASICS OF R/C: BALANCE	MODEL AIRPLANE NEWS	OCT '89	GEN: TRY SKINNY-SCALE FLYING MODELS	MARCH '85
BASICS OF R/C: BALSA	MODEL AIRPLANE NEWS	MAY '86	GEN: ULTIMATE BIPE (ACE)	MODEL AIRPLANE NEWS FEB '96
BASICS OF R/C: BIG BIRDS	MODEL AIRPLANE NEWS	MARCH '89	GEN: ULTRACOTE	MODEL AIRPLANE NEWS AUG '87
BASICS OF R/C: BUILDING BOARDS	MODEL AIRPLANE NEWS	JULY '88	GEN: WEBBED FEET	MODEL AIRPLANE NEWS OCT '88
BASICS OF R/C: COMPAIR AIRPLANE	MODEL AIRPLANE NEWS	MAY '88	HOWTO: 17A TEST STAND	MODEL AIRPLANE NEWS DEC '83
BASICS OF R/C: CONTROLS	MODEL AIRPLANE NEWS	DEC '86	HOWTO: 4 CYCLE STACK	MODEL AIRPLANE NEWS JAN '85
BASICS OF R/C: CRYSTALS	MODEL AIRPLANE NEWS	MAY '90	HOWTO: A GLO-PLUG GADDDY	MODEL AIRPLANE NEWS OCT '89
BASICS OF R/C: DIHEDRAL	MODEL AIRPLANE NEWS	OCT '88	HOWTO: A LIGHT WEIGHT FIREWALL	MODEL AIRPLANE NEWS JUNE '94
BASICS OF R/C: DRY BATTERIES	MODEL AIRPLANE NEWS	JUNE '89	HOWTO: A PLASTIC FUEL TANK	MODEL AIRPLANE NEWS SEPT '87
BASICS OF R/C: ETIQUETTE	MODEL AIRPLANE NEWS	MAY '91	HOWTO: ACE MOUNT FOR THE G-MARK	MODEL AIRPLANE NEWS DEC '88
BASICS OF R/C: FREQUENCIES	MODEL AIRPLANE NEWS	APRIL '88	HOWTO: ADD ROUND WING TIPS	MODEL AIRPLANE NEWS FEB '91
BASICS OF R/C: HARDWARE	MODEL AIRPLANE NEWS	JAN '87	HOWTO: AIL TORQUE RODS	MODEL AIRPLANE NEWS NOV '85
BASICS OF R/C: INSTRUCTIONS	MODEL AIRPLANE NEWS	DEC '90	HOWTO: AN ANGLE SANDING JIG	MODEL AIRPLANE NEWS APRIL '93
BASICS OF R/C: INSTRUCTIONS	MODEL AIRPLANE NEWS	DEC '90	HOWTO: ANTENNA ANCHOR	MODEL AIRPLANE NEWS FEB '86
BASICS OF R/C: INSTRUCTIONS	MODEL AIRPLANE NEWS	NOV '88	HOWTO: ASSEMBLE DEANS CONNECTOR	MODEL AIRPLANE NEWS JUNE '90
BASICS OF R/C: LANDING GEAR	MODEL AIRPLANE NEWS	OCT '87	HOWTO: BALSA BULKHEADS	MODEL AIRPLANE NEWS SEPT '84
BASICS OF R/C: MAINTENANCE	MODEL AIRPLANE NEWS	JAN '89	HOWTO: BAND SAW RIBS	MODEL AIRPLANE NEWS MARCH '91
BASICS OF R/C: NYLON PUSH RODS	MODEL AIRPLANE NEWS	SEPT '90	HOWTO: BAR CLAMP	MODEL AIRPLANE NEWS JULY '86
BASICS OF R/C: OLD STUFF	MODEL AIRPLANE NEWS	APRIL '89	HOWTO: BEND BRASS TUBES	MODEL AIRPLANE NEWS
BASICS OF R/C: PLANS	MODEL AIRPLANE NEWS	MARCH '88	HOWTO: BEND HEAVY WIRE	MODEL AIRPLANE NEWS FEB '89
BASICS OF R/C: PLASTIC FILMS	MODEL AIRPLANE NEWS	FEB '91	HOWTO: BRASS PUSHRODS	MODEL AIRPLANE NEWS SEPT '85
BASICS OF R/C: PLASTIC FILMS	MODEL AIRPLANE NEWS	FEB '91	HOWTO: BROOMSTICK FUSE STAND	MODEL AIRPLANE NEWS JAN '93
BASICS OF R/C: PRE-PRELIGHT	MODEL AIRPLANE NEWS	NOV '89	HOWTO: BUILD A CG LOCATOR	MODEL AIRPLANE NEWS JAN '88
BASICS OF R/C: PROPORTIONS	MODEL AIRPLANE NEWS	AUG '90	HOWTO: BUILDERS TRIANGLES	MODEL AIRPLANE NEWS JAN '87
BASICS OF R/C: RANDOM THOUGHTS	MODEL AIRPLANE NEWS	JULY '90	HOWTO: BUILT-UP PANTS	MODEL AIRPLANE NEWS JULY '83
BASICS OF R/C: RECEIVER KIT	MODEL AIRPLANE NEWS	JUNE '87	HOWTO: CAPSTRIP WING	MODEL AIRPLANE NEWS JUNE '84
BASICS OF R/C: RECEIVERS	MODEL AIRPLANE NEWS	OCT '86	HOWTO: CARBON-FIBER FOR FORMER	MODEL AIRPLANE NEWS AUG '92
BASICS OF R/C: REPAIRS	MODEL AIRPLANE NEWS	MAY '87	HOWTO: CARBON FIBER FOR PUSHRODS	MODEL AIRPLANE NEWS DEC '92
BASICS OF R/C: RIBS 'N THINGS	MODEL AIRPLANE NEWS	SEPT '88	HOWTO: CARBON FIBER REINFORCED	MODEL AIRPLANE NEWS SEPT '92
BASICS OF R/C: RULES OF THUMB	MODEL AIRPLANE NEWS	MARCH '90	HOWTO: CARVE A PROP (GAS)	MODEL AIRPLANE NEWS JAN '89
BASICS OF R/C: SANDPAPER	MODEL AIRPLANE NEWS	JULY '86	HOWTO: CLEAN MODEL SURFACES	MODEL AIRPLANE NEWS APRIL '82
BASICS OF R/C: SCALE AIRPLANES	MODEL AIRPLANE NEWS	MAY '89	HOWTO: COMPUTER GENERATED LETTERS	MODEL AIRPLANE NEWS FEB '95
BASICS OF R/C: SERVOS	MODEL AIRPLANE NEWS	AUG '86	HOWTO: CONVERT THE HURR CUB	MODEL AIRPLANE NEWS AUG '95
BASICS OF R/C: SMALL ENGINES	MODEL AIRPLANE NEWS	APRIL '91	HOWTO: CLOTHE SPIN CLAMPS	MODEL AIRPLANE NEWS SEPT '88
BASICS OF R/C: SPEED CALC ADDITI	MODEL AIRPLANE NEWS	AUG '89	HOWTO: CONTOUR SANDER	MODEL AIRPLANE NEWS FEB '88
BASICS OF R/C: SUPPORT EQUIP	MODEL AIRPLANE NEWS	MARCH '87	HOWTO: CONTROL MIXER	MODEL AIRPLANE NEWS JULY '89
BASICS OF R/C: TAKE BETTER PICT	MODEL AIRPLANE NEWS	JAN '90	HOWTO: CUSTOM LANDING GEAR CLIPS	MODEL AIRPLANE NEWS SEPT '95
BASICS OF R/C: THE PRE-FLIGHT	MODEL AIRPLANE NEWS	NOV '89	HOWTO: DIE-CUT PARTS	MODEL AIRPLANE NEWS DEC '90
BASICS OF R/C: THE INSTRUCTOR	MODEL AIRPLANE NEWS	OCT '90	HOWTO: DIHEDRAL SUPPORT	MODEL AIRPLANE NEWS JUNE '91
BASICS OF R/C: THINGS TO REMEMB	MODEL AIRPLANE NEWS	JULY '89	HOWTO: DISPOSABLE RAZOR KNIFE	MODEL AIRPLANE NEWS APRIL '87
			HOWTO: DRAW ELLIPSE	MODEL AIRPLANE NEWS JULY '90
			HOWTO: DRAW ELLIPTICAL WING	MODEL AIRPLANE NEWS MAY '93
			HOWTO: DRILL FIREWALL	MODEL AIRPLANE NEWS APRIL '85
			HOWTO: EASY SHOCK MOUNTS	MODEL AIRPLANE NEWS FEB '92
			HOWTO: EASY WINDSHIELDS	MODEL AIRPLANE NEWS JUNE '85
			HOWTO: EDGE GLUE Balsa	MODEL AIRPLANE NEWS MAY '81
			HOWTO: ELECTRIC MOTOR MOUNT	MODEL AIRPLANE NEWS JULY '88
			HOWTO: ENGINE DRILL JIG	MODEL AIRPLANE NEWS AUG '89
			HOWTO: ENGINE MOUNT DRILL JIG	MODEL AIRPLANE NEWS FEB '90
			HOWTO: ENLARGE 3-VIEWS	MODEL AIRPLANE NEWS APRIL '96
			HOWTO: ENLARGE RIB SECTIONS	MODEL AIRPLANE NEWS NOV '95

HOWTO: EVEN MORE LITE WHEELS MODEL AIRPLANE NEWS JULY '91
 HOWTO: EXT. BULKHEADS MODEL AIRPLANE NEWS NOV '84
 HOWTO: FILM HINGES MODEL AIRPLANE NEWS OCT '87
 HOWTO: FIND MOUNT HOLES MODEL AIRPLANE NEWS FEB '84
 HOWTO: FREE FUEL PUMP MODEL AIRPLANE NEWS DEC '89
 HOWTO: FUSELAGE CROSS SHEETING MODEL AIRPLANE NEWS JAN '82
 HOWTO: GASKETS THE EASY WAY MODEL AIRPLANE NEWS MARCH '90
 HOWTO: GLUE BOTTLES MODEL AIRPLANE NEWS APRIL '84
 HOWTO: GOLD-N-RODS MODEL AIRPLANE NEWS JUNE '83
 HOWTO: HEAT SHRINK PLASTIC BOTTLE MODEL AIRPLANE NEWS JAN '95
 HOWTO: IMPROVE THE BLACK WIDOW MODEL AIRPLANE NEWS JUNE '93
 HOWTO: INSTALL T-NUTS MODEL AIRPLANE NEWS NOV '87
 HOWTO: INVISIBLE HINGES MODEL AIRPLANE NEWS DEC '84
 HOWTO: IRON-ON WING SKINS MODEL AIRPLANE NEWS MARCH '82
 HOWTO: JIG BLOCKS MODEL AIRPLANE NEWS MAY '84
 HOWTO: JUICE CAN TANK MODEL AIRPLANE NEWS MARCH '84
 HOWTO: L.G. CLIPS MODEL AIRPLANE NEWS FEB '81
 HOWTO: LAM. TIP BOWS MODEL AIRPLANE NEWS OCT '83
 HOWTO: LIGHT BATTERY PACK MODEL AIRPLANE NEWS AUG '90
 HOWTO: LIGHT ELECTRIC MOTOR PAC MODEL AIRPLANE NEWS JAN '92
 HOWTO: LIGHT TAIL WHEEL MODEL AIRPLANE NEWS OCT '88
 HOWTO: MAGNETS FOR HATCH CLOSURES MODEL AIRPLANE NEWS JUNE '95
 HOWTO: MAKE 1/2A FLOATS MODEL AIRPLANE NEWS JAN '94
 HOWTO: MAKE A BALSA STRIPPER MODEL AIRPLANE NEWS NOV '88
 HOWTO: MAKE A BARRREL-WRAP TOOL MODEL AIRPLANE NEWS APRIL '92
 HOWTO: MAKE A CLEVIS TOOL MODEL AIRPLANE NEWS JUNE '92
 HOWTO: MAKE A GLO-PLUG CLIP MODEL AIRPLANE NEWS AUG '91
 HOWTO: MAKE A GLUE BOTTLE MODEL AIRPLANE NEWS MAY '89
 HOWTO: MAKE A MITER BOX MODEL AIRPLANE NEWS AUG '86
 HOWTO: MAKE A RIB JIG MODEL AIRPLANE NEWS MAY '87
 HOWTO: MAKE A SIMPLE XMITTER STND MODEL AIRPLANE NEWS AUG '94
 HOWTO: MAKE A SMALL HI-START MODEL AIRPLANE NEWS NOV '90
 HOWTO: MAKE A TIRE TOOL MODEL AIRPLANE NEWS NOV '93
 HOWTO: MAKE AN INCIDENCE METER MODEL AIRPLANE NEWS SEPT '93
 HOWTO: MAKE AN ICE FREE SWITCH MODEL AIRPLANE NEWS DEC '87
 HOWTO: MAKE JIGSAW TABLE MODEL AIRPLANE NEWS OCT '93
 HOWTO: MAKE LIGHT WHEELS MODEL AIRPLANE NEWS JULY '87
 HOWTO: MAKE METAL TEMPLATES MODEL AIRPLANE NEWS SEPT '82
 HOWTO: MAKE SUPER TAIL WHEELS MODEL AIRPLANE NEWS NOV '89
 HOWTO: MAKE TAPERED WING RIBS MODEL AIRPLANE NEWS MAY '92
 HOWTO: MAKE WIRE GEARS MODEL AIRPLANE NEWS AUG '83
 HOWTO: MAKE Z BENDS MODEL AIRPLANE NEWS FEB '87
 HOWTO: MATCH SPARS AND LONGERONS MODEL AIRPLANE NEWS NOV '92
 HOWTO: MICAFILM MODEL AIRPLANE NEWS JAN '84
 HOWTO: MODEL KNIFE DRILL MODEL AIRPLANE NEWS FEB '83
 HOWTO: MORE LIGHT WHEELS MODEL AIRPLANE NEWS APRIL '90
 HOWTO: MORE LITE WHEELS MODEL AIRPLANE NEWS JUNE '88
 HOWTO: MOUNT A DRAGONFLY MODEL AIRPLANE NEWS MARCH '94
 HOWTO: MOUNT THE .061 MODEL AIRPLANE NEWS APRIL '88
 HOWTO: MOUNT WHEELS MODEL AIRPLANE NEWS JULY '84
 HOWTO: NICAD PACK MODEL AIRPLANE NEWS APRIL '83
 HOWTO: NOSEGEAR STEERING ARM MODEL AIRPLANE NEWS DEC '86
 HOWTO: NYROD TOOL MODEL AIRPLANE NEWS MAY '85
 HOWTO: PAINT WHEEL HUBS MODEL AIRPLANE NEWS APRIL '89
 HOWTO: PINPRICK TEMPLATE MODEL AIRPLANE NEWS SEPT '91
 HOWTO: PLASTIC BOTTLE TANK MODEL AIRPLANE NEWS SEPT '87
 HOWTO: PLY CONTROL HORNS MODEL AIRPLANE NEWS OCT '86
 HOWTO: PLYWOOD NOSEGEAR MOUNT MODEL AIRPLANE NEWS SEPT '82
 HOWTO: POP BOTTLE WINDSHIELD MODEL AIRPLANE NEWS JUNE '96
 HOWTO: PRESSURE FOR THE .049 MODEL AIRPLANE NEWS MAY '90
 HOWTO: PRINTED SHEET MODEL AIRPLANE NEWS NOV '81
 HOWTO: PROP BALANCER MODEL AIRPLANE NEWS NOV '86
 HOWTO: RAZOR BLADE KNIFE MODEL AIRPLANE NEWS OCT '82
 HOWTO: REPLACE WHEEL PANTS MODEL AIRPLANE NEWS MARCH '92
 HOWTO: RIBS WITHOUT POWER TOOLS MODEL AIRPLANE NEWS APRIL '91
 HOWTO: RIGHT TRIANGLES MODEL AIRPLANE NEWS SEPT '81
 HOWTO: ROUND LEADING EDGES MODEL AIRPLANE NEWS AUG '88
 HOWTO: SANDING JIG MODEL AIRPLANE NEWS JAN '86
 HOWTO: SANDING TECHNIQUES MODEL AIRPLANE NEWS AUG '82
 HOWTO: SELECTING BALSA MODEL AIRPLANE NEWS MAY '83
 HOWTO: SERVO MOUNT MODEL AIRPLANE NEWS MARCH '85
 HOWTO: SERVO TEMPLATE MODEL AIRPLANE NEWS MAY '91
 HOWTO: SERVO TRAY MODEL AIRPLANE NEWS AUG '81
 HOWTO: SNAP-IN WING HOLDOWN MODEL AIRPLANE NEWS DEC '82
 HOWTO: SNUFF CAN MUFF MODEL AIRPLANE NEWS SEPT '83
 HOWTO: SOCKET WRENCH MODEL AIRPLANE NEWS OCT '84
 HOWTO: SOFT LIGHT WHEELS MODEL AIRPLANE NEWS SEPT '89
 HOWTO: SOLDER A TANK MODEL AIRPLANE NEWS NOV '83
 HOWTO: SPAR WEB JIG MODEL AIRPLANE NEWS JUNE '86
 HOWTO: SPAR WEB JIG 1 MODEL AIRPLANE NEWS FEB '82
 HOWTO: SPLICE NYRODS MODEL AIRPLANE NEWS MARCH '86
 HOWTO: SQ. BATTERY PACK JIG MODEL AIRPLANE NEWS NOV '91
 HOWTO: SQUARE SANDING JIG MODEL AIRPLANE NEWS JUNE '87
 HOWTO: SQUEEZE FUEL BOTTLE MODEL AIRPLANE NEWS MARCH '87
 HOWTO: STARS AND BALLS INSIGNIA MODEL AIRPLANE NEWS JULY '88
 HOWTO: STRIP A .40 MODEL AIRPLANE NEWS NOV '82
 HOWTO: STRIP BALSA MODEL AIRPLANE NEWS MARCH '83
 HOWTO: SUPER TAIL WHEELS MODEL AIRPLANE NEWS NOV '89
 HOWTO: SWITCH WIRING MODEL AIRPLANE NEWS AUG '87
 HOWTO: TAIL WHEEL STEER MODEL AIRPLANE NEWS JULY '85
 HOWTO: TAP FOR NYLON BOLTS MODEL AIRPLANE NEWS JUNE '89
 HOWTO: THE GLUE STICK MODEL AIRPLANE NEWS OCT '90
 HOWTO: THE TAPER ACE MODEL AIRPLANE NEWS OCT '81
 HOWTO: THREAD PUSHRODS MODEL AIRPLANE NEWS AUG '84
 HOWTO: TOOLS THAT MAKE EASY MODEL AIRPLANE NEWS DEC '93
 HOWTO: TORSION GEAR MOUNT MODEL AIRPLANE NEWS MAY '86
 HOWTO: TRAILING EDGE NOTCH JIG MODEL AIRPLANE NEWS SEPT '90
 HOWTO: TRAILING EDGES MODEL AIRPLANE NEWS AUG '85
 HOWTO: TRANS-MONITOR MODEL AIRPLANE NEWS SEPT '88
 HOWTO: TRAVEL IRON MODEL AIRPLANE NEWS OCT '85
 HOWTO: TRIANGLE STRIPPER MODEL AIRPLANE NEWS MARCH '89
 HOWTO: TRIM TEMPLATES MODEL AIRPLANE NEWS MAY '88
 HOWTO: TRY WOOD SCREWS MODEL AIRPLANE NEWS JAN '90
 HOWTO: UBIQUITOUS CLAMP MODEL AIRPLANE NEWS JULY '81
 HOWTO: WIDE BALSA SHEET MODEL AIRPLANE NEWS APRIL '86
 HOWTO: WOOD MOTOR MOUNT MODEL AIRPLANE NEWS FEB '85
 SMALL STEPS: #01 INTRODUCTION MODEL AIRPLANE NEWS JAN '87
 SMALL STEPS: #02 BUILDING LIGHT MODEL AIRPLANE NEWS MARCH '87
 SMALL STEPS: #03 WOOD, 1/2A THROAT MODEL AIRPLANE NEWS JUNE '87
 SMALL STEPS: #04 BOY WHO STARTED MODEL AIRPLANE NEWS DEC '87
 SMALL STEPS: #06 CANNON NO. GILL MODEL AIRPLANE NEWS OCT '87
 SMALL STEPS: #07 SMALL WINGS AND MODEL AIRPLANE NEWS FEB '88
 SMALL STEPS: #08 DFLY COMBAT ETC MODEL AIRPLANE NEWS MARCH '88
 SMALL STEPS: #10 HELIENS DRAGONF MODEL AIRPLANE NEWS MAY '88
 SMALL STEPS: #11 PRIDE MODEL AIRPLANE NEWS SEPT '88
 SMALL STEPS: #12 .25 ENGINES MODEL AIRPLANE NEWS NOV '88
 SMALL STEPS: #13 GULLOW, T-SLEE MODEL AIRPLANE NEWS JAN '89
 SMALL STEPS: #14 FRENCH CONNECT MODEL AIRPLANE NEWS MARCH '89
 SMALL STEPS: #15 FLY-IN-ELECTRI MODEL AIRPLANE NEWS MAY '89
 SMALL STEPS: #16 SCRAP STICK ETI MODEL AIRPLANE NEWS SEPT '89
 SMALL STEPS: #17 COX .074 MODEL AIRPLANE NEWS JULY '89
 SMALL STEPS: #18 THE START OF S MODEL AIRPLANE NEWS NOV '89
 SMALL STEPS: #19 RADIO SYSTEMS MODEL AIRPLANE NEWS FEB '90
 SMALL STEPS: #20 NEW THINGS MODEL AIRPLANE NEWS APRIL '90
 SMALL STEPS: #21 DEJA VU MODEL AIRPLANE NEWS JULY '90
 SMALL STEPS: #22 SUPER TIGER .1 MODEL AIRPLANE NEWS SEPT '90
 SMALL STEPS: #23 AUTHOR'S PICTU MODEL AIRPLANE NEWS NOV '90
 SMALL STEPS: #24 MINISERVO SLITE MODEL AIRPLANE NEWS JULY '91
 SMALL STEPS: #27 SMALL SCALE FLY MODEL AIRPLANE NEWS MARCH '91
 SMALL STEPS: #28 MORE SMALL ENG MODEL AIRPLANE NEWS MAY '91
 SMALL STEPS: #30 ENYA .049 MODEL AIRPLANE NEWS JAN '92
 SMALL STEPS: #33 ONE OF THESE D MODEL AIRPLANE NEWS MAY '92
 SMALL STEPS: #34-35 SKOOT'S SIDE MODEL AIRPLANE NEWS DEC '92
 SMALL STEPS: #38 MODEL AIRPLANE NEWS AUG '93
 SMALL STEPS: 10TH .074 INTRO.SN MODEL AIRPLANE NEWS JULY '88
 SMALL STEPS: COLLEYVILLE MODEL AIRPLANE NEWS SEPT '87
 SMALL STEPS: COX FAILSAFE MODEL AIRPLANE NEWS MARCH '92
 SMALL STEPS: INTRODUCTION MODEL AIRPLANE NEWS JAN '87
 SMALL STEPS: OLDIES,G-MARK 61 T MODEL AIRPLANE NEWS SEPT '91
 SMALL STEPS: SMAL ANOUNCEMENT MODEL AIRPLANE NEWS NOV '89
 SMALL TALK (Intro) FLYING MODELS FEB '96
 SMALL TALK (Emmett) FLYING MODELS MARCH '96
 SMALL TALK (Cox announcement) FLYING MODELS APRIL '96
 SMALL TALK (Planate, Parakeet, Lazy Bee) FLYING MODELS MAY '96
 SMALL TALK (SMALL and SMA) FLYING MODELS JUNE '96
 SMALL TALK (Little electric, Little Lazy Bee) FLYING MODELS JULY '96
 SMALL TALK (G-Mark, G. Van Cleave) FLYING MODELS AUG '96
 SMALL TALK (Recognition Models) FLYING MODELS SEPT '96
 SMALL TALK (Cox announcement) FLYING MODELS OCT '96
 SMALL TALK (BEC report) FLYING MODELS NOV '96
 SMALL TALK (Giants killed modeling) FLYING MODELS DEC '96
 SMALL TALK (Big Mig, PAW.03) FLYING MODELS JAN '96
 TECH TIPS: HOW TO MAKE WHEEL PA MODEL AIRPLANE NEWS JUNE '89
 TECH TIPS: IRON ON BALSA SHEET MODEL AIRPLANE NEWS FEB '89
 TECH TIPS: LAMINATING WING TIPS MODEL AIRPLANE NEWS MAY '89
 TECH TIPS: NICAD BATTERY PACK MODEL AIRPLANE NEWS APRIL '89
 TECH TIPS: SANDING TOOLS AND TR MODEL AIRPLANE NEWS MARCH '89
 WHATS IN THE BOX MODEL AVIATION DEC '93