



The AMA History Project Presents: Autobiography of L.F. (RANDY) RANDOLPH



December 17, 1925 – April 8, 2005 Started modeling in 1935
AMA #10931

Written & Submitted by LFR (08/2000); Transcribed by NR (08/2000); Edited by SS (2002), Updated by JS (01/2008), Reformatted by JS (01/2010)

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 Radio Control Airplanes” and “Radio Control 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: Model Aviation Hall of Fame
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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. In addition, 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 schoolyard, 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 Control 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 Radio Control. 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 Radio Control 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 a Radio Control airplane. I could not 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 Radio Control for a second time, I joined the Dallas Radio Control 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 Model Aviation 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 has.

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 Radio Control 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 Radio Control 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 2 books mostly with the new or inexperienced modeler in mind. Enclosed is a list of most of his publications.

In 1982, he was appointed 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 RC Airplanes"
 "RC Airplane Building Techniques"

MAGAZINE ARTICLES

AIRCRAFT 2CY: ARONCA C-3	FLYING MODELS	MAY '85
AIRCRAFT 2CY: BEE-TWIG	MODEL AIRPLANE NEWS	JULY '91
AIRCRAFT 2CY: CHIPS	MODEL AIRPLANE NEWS	MARCH '90
AIRCRAFT 2CY: DIME	MODEL AVIATION	OCT '91
AIRCRAFT 2CY: DOUBLEDUTY	MODEL AVIATION	JUNE '87
AIRCRAFT 2CY: DRAGGIN' BY	R C MODELER	OCT '80
AIRCRAFT 2CY: FD-25	FLYING MODELS	SEPT '86
AIRCRAFT 2CY: FRISKEY	FLYING MODELS	JAN '88
AIRCRAFT 2CY: G-MAN	MODEL AIRPLANE NEWS	APRIL '88
AIRCRAFT 2CY: GEEBLOW	FLYING MODELS	FEB '89
AIRCRAFT 2CY: HOMER	R C MODELER	FEB '81
AIRCRAFT 2CY: IRONSIDES	MODEL AVIATION	JAN '84
AIRCRAFT 2CY: KEYTWO	MODEL AVIATION	DEC '89
AIRCRAFT 2CY: L.L. EASY	MODEL AIRPLANE NEWS	FEB '93
AIRCRAFT 2CY: MARDONEY	R C MODELER	MAY '81
AIRCRAFT 2CY: MILES MAGESTER	FLYING MODELS	MARCH '85
AIRCRAFT 2CY: MISPLIT	MODEL AVIATION	DEC '78
AIRCRAFT 2CY: MISS DIAMOND	MODEL AIRPLANE NEWS	SEPT '89
AIRCRAFT 2CY: MODESTY	MODEL AVIATION	JUNE '80
AIRCRAFT 2CY: NAC180	FLYING MODELS	MARCH '85
AIRCRAFT 2CY: NICHIVOIN	MODEL AVIATION	JULY '82
AIRCRAFT 2CY: NICKLE	MODEL AVIATION	NOV '88
AIRCRAFT 2CY: ONE STEP	MODEL AVIATION	SEPT '81
AIRCRAFT 2CY: ONECENT	MODEL AIRPLANE NEWS	AUG '90
AIRCRAFT 2CY: ONESTONE	MODEL AVIATION	JULY '79
AIRCRAFT 2CY: PASKOY	MODEL BUILDER	JUNE '78
AIRCRAFT 2CY: PONG	FLYING MODELS	MAY '81
AIRCRAFT 2CY: PONG TWO	FLYING MODELS	FEB '84
AIRCRAFT 2CY: SEMPER FI	R C MODELER	DEC '79
AIRCRAFT 2CY: SPIRIT OF 74	MODEL AIRPLANE NEWS	JULY '80
AIRCRAFT 2CY: STITOSHEN	MODEL AVIATION	APRIL '81
AIRCRAFT 2CY: TITOWAD	MODEL AIRPLANE NEWS	OCT '80
AIRCRAFT 2CY: TWILIGHTER	MODEL AIRPLANE NEWS	MARCH '87
AIRCRAFT 2CY: TWILIGHTER (AGAIN)	MODEL AIRPLANE NEWS	DEC '88
AIRCRAFT 2CY: TWILIGHTER II	MODEL AIRPLANE NEWS	DEC '87
AIRCRAFT 2CY: YNOT	MODEL AIRPLANE NEWS	MARCH '91
AIRCRAFT 4CY: EASY	MODEL AIRPLANE NEWS	MAY '87
AIRCRAFT 4CY: HAWKSHAW	MODEL AIRPLANE NEWS	JAN '86
AIRCRAFT 4CY: STROKER	MODEL AVIATION	APRIL '85
AIRCRAFT 4CY: WEEKENDER	MODEL AVIATION	NOV '85
AIRCRAFT ELEC: ELECTROLITER	MODEL AIRPLANE NEWS	MARCH '89
AIRCRAFT ELEC: MMINNWATT	MODEL AIRPLANE NEWS	MAY '85
AIRCRAFT ELEC: YARDBIRD	MODEL AIRPLANE NEWS	FEB '82
AIRCRAFT RUB: CLUB CRUISER	FLYING MODELS	MAY '85
AIRCRAFT RUB: L.L. PECS	MODEL AVIATION	MAY '85
AIRCRAFT RUB: NO-CAL CLUB	MODEL AVIATION	SEPT '85
AIRCRAFT RUB: OBSERVER	MODEL AIRPLANE NEWS	AUG '84
BASICS OF RC: ADHESIVES	MODEL AIRPLANE NEWS	JUNE '86
BASICS OF RC: BAD VIBES	MODEL AIRPLANE NEWS	SEPT '89
BASICS OF RC: BALANCE AND TRIM	MODEL AIRPLANE NEWS	SEPT '87
BASICS OF RC: BALANCE	MODEL AIRPLANE NEWS	OCT '89
BASICS OF RC: BALSA	MODEL AIRPLANE NEWS	MAY '86
BASICS OF RC: BIG BIRDS	MODEL AIRPLANE NEWS	MARCH '89
BASICS OF RC: BUILDING BOARDS	MODEL AIRPLANE NEWS	JULY '88
BASICS OF RC: COMPAIR AIRPLANE	MODEL AIRPLANE NEWS	MAY '88
BASICS OF RC: CONTROLS	MODEL AIRPLANE NEWS	DEC '86
BASICS OF RC: CRYSTALS	MODEL AIRPLANE NEWS	MAY '90
BASICS OF RC: DIBERIAL	MODEL AIRPLANE NEWS	OCT '88
BASICS OF RC: DRY BATTERIES	MODEL AIRPLANE NEWS	JUNE '89
BASICS OF RC: ETIQUETTE	MODEL AIRPLANE NEWS	MAY '91
BASICS OF RC: FREQUENCIES	MODEL AIRPLANE NEWS	APRIL '88
BASICS OF RC: HARDWARE	MODEL AIRPLANE NEWS	JAN '87
BASICS OF RC: INSTRUCTIONS	MODEL AIRPLANE NEWS	DEC '90
BASICS OF RC: INSTRUCTIONS	MODEL AIRPLANE NEWS	DEC '90
BASICS OF RC: INSTRUCTIONS	MODEL AIRPLANE NEWS	NOV '88
BASICS OF RC: LANDING GEAR	MODEL AIRPLANE NEWS	OCT '87
BASICS OF RC: MAINTENANCE	MODEL AIRPLANE NEWS	JAN '89
BASICS OF RC: NYLON PUSH RODS	MODEL AIRPLANE NEWS	SEPT '90
BASICS OF RC: OLD STUFF	MODEL AIRPLANE NEWS	APRIL '89
BASICS OF RC: PLANS	MODEL AIRPLANE NEWS	MARCH '88
BASICS OF RC: PLASTIC FILMS	MODEL AIRPLANE NEWS	FEB '91
BASICS OF RC: PLASTIC FILMS	MODEL AIRPLANE NEWS	FEB '91
BASICS OF RC: PRE-REFLECT	MODEL AIRPLANE NEWS	NOV '86
BASICS OF RC: PROPORTIONS	MODEL AIRPLANE NEWS	AUG '90
BASICS OF RC: RANDOM THOUGHTS	MODEL AIRPLANE NEWS	JULY '90
BASICS OF RC: RECEIVER KIT	MODEL AIRPLANE NEWS	JUNE '87
BASICS OF RC: RECEIVERS	MODEL AIRPLANE NEWS	OCT '86
BASICS OF RC: REPAIRS	MODEL AIRPLANE NEWS	MAY '87
BASICS OF RC: RIBS 'N THINGS	MODEL AIRPLANE NEWS	SEPT '88
BASICS OF RC: RULES OF THUMB	MODEL AIRPLANE NEWS	MARCH '90
BASICS OF RC: SANDPAPER	MODEL AIRPLANE NEWS	JULY '85
BASICS OF RC: SCALE AIRPLANES	MODEL AIRPLANE NEWS	MAY '89
BASICS OF RC: SERVOS	MODEL AIRPLANE NEWS	AUG '86
BASICS OF RC: SMALL ENGINES	MODEL AIRPLANE NEWS	APRIL '91
BASICS OF RC: SPEED CALC ADDEIT	MODEL AIRPLANE NEWS	AUG '89
BASICS OF RC: SUPPORT EQUIP	MODEL AIRPLANE NEWS	MARCH '87
BASICS OF RC: TAKE BETTER PICT	MODEL AIRPLANE NEWS	JAN '90
BASICS OF RC: THE PRE-FLIGHT	MODEL AIRPLANE NEWS	NOV '86
BASICS OF RC: THE INSTRUCTOR	MODEL AIRPLANE NEWS	OCT '90
BASICS OF RC: THINGS TO REMEMB	MODEL AIRPLANE NEWS	JULY '89

MAY '85

BASICS OF RC: THINGS TO KN'OW	MODEL AIRPLANE NEWS	JULY '87
BASICS OF RC: THREADS	MODEL AIRPLANE NEWS	DEC '85
BASICS OF RC: TOOLS	MODEL AIRPLANE NEWS	APRIL '87
BASICS OF RC: TRAINERS	MODEL AIRPLANE NEWS	FEB '87
BASICS OF RC: TRANSMITTERS	MODEL AIRPLANE NEWS	NOV '86
BASICS OF RC: TRIM YOUR PLANE	MODEL AIRPLANE NEWS	SEPT '87
BASICS OF RC: TURNS	MODEL AIRPLANE NEWS	NOV '87
BASICS OF RC: VENACULAR	MODEL AIRPLANE NEWS	APRIL '89
BASICS OF RC: WATCH OUT!	MODEL AIRPLANE NEWS	AUG '87
BASICS OF RC: WHEEL MOUNTING	MODEL AIRPLANE NEWS	APRIL '90
BASICS OF RC: WHEEL TRAINER	MODEL AIRPLANE NEWS	DEC '88
BASICS OF RC: WHICH KIT?	MODEL AIRPLANE NEWS	FEB '86
BASICS OF RC: WHICH SYSTEM?	MODEL AIRPLANE NEWS	FEB '89
GEN: 1,2,3 KICK AGAIN	MODEL AVIATION	FEB '86
GEN: 1,2,3 KICK	MODEL AVIATION	MAY '84
GEN: 2ND ANNUAL SMALL STEPS FLY	MODEL AIRPLANE NEWS	MAY '89
GEN: Balsa STRIPPER	R C MODELER	JAN '81
GEN: BANDSAW MOTOR MOUNT	MODEL AVIATION	DEC '82
GEN: BUILDING BOARD	MODEL AVIATION	FEB '83
GEN: CARVE WOOD PROPS	FLYING MODELS	MAY '82
GEN: CLEAN IT UP (ENGINE)	MODEL AVIATION	AUG '81
GEN: CLEAN POTS	MODEL AVIATION	JUNE '79
GEN: DONT FORGET, CLEAN	MODEL AVIATION	MARCH '81
GEN: ELECTRA KIT REVIEW	MODEL AIRPLANE NEWS	JULY '87
GEN: ELECTRICUB KIT REVIEW	MODEL AIRPLANE NEWS	APRIL '88
GEN: FUSE JOG	MODEL AVIATION	OCT '80
GEN: GREAT PLANES CLUB REVIEW (add'l)	MODEL AIRPLANE NEWS	APRIL '79
GEN: IRON ON HINGES	MODEL AVIATION	APRIL '79
GEN: LAZY BEE KIT REVIEW	MODEL AIRPLANE NEWS	SEPT '84
GEN: LIGHTER TAIL FEATHERS	MODEL AIRPLANE NEWS	JULY '91
GEN: MINI SUKHOI REVIEW	FLYING MODELS	JUNE '86
GEN: MIRAQUE 550 KIT REVIEW	MODEL AIRPLANE NEWS	AUG '90
GEN: MOUNTING WHEELS	MODEL AVIATION	APRIL '82
GEN: MOUNT SMALL SERVOS	R C MODELER	FEB '82
GEN: ON GLIDING	MODEL AVIATION	MARCH '83
GEN: PRODUCT REVIEW, PT-20	MODEL AIRPLANE NEWS	DEC '86
GEN: RIB FABRICATION	R C MODELER	FEB '80
GEN: ROUND LEADING EDGES	MODEL AVIATION	JULY '83
GEN: SHEETING THE EASY WAY	MODEL AVIATION	JULY '87
GEN: SMALL STEPS FLY-IN (80)	MODEL AIRPLANE NEWS	FEB '86
GEN: SNUFF CAN TANK	MODEL AVIATION	JAN '79
GEN: STARS AND BALLS	MODEL AVIATION	FEB '80
GEN: STRIP SHOW (A.L.)	MODEL AVIATION	JAN '81
GEN: SUPER SHEETING	MODEL AIRPLANE NEWS	JUNE '81
GEN: TEXAS OUTLAW KIT REVIEW	MODEL AIRPLANE NEWS	APRIL '90
GEN: THE ELECTRA	MODEL AIRPLANE NEWS	JULY '87
GEN: THE NEXT DIMENSION	R C CAR ACTION	FEB '87
GEN: THE THERMAL CHARGER	MODEL AIRPLANE NEWS	MAY '89
GEN: TIP TIPS	R C MODELER	SEPT '89
GEN: TRY SKINNY SCALE FLYING MODELS	MODEL AIRPLANE NEWS	MARCH '85
GEN: UTMATE BPIPE (ACE)	MODEL AIRPLANE NEWS	FEB '86
GEN: ULTRACUTE	MODEL AIRPLANE NEWS	AUG '87
GEN: WEBBED FEET	MODEL AIRPLANE NEWS	OCT '88
HOWTO: 12A TEST STAND	MODEL AIRPLANE NEWS	DEC '83
HOWTO: 4 CYCLE STACK	MODEL AIRPLANE NEWS	JAN '85
HOWTO: A GLO-FLUG CADDY	MODEL AIRPLANE NEWS	OCT '89
HOWTO: A LIGHT WEIGHT FIREWALL	MODEL AIRPLANE NEWS	JUNE '84
HOWTO: A PLASTIC FUEL TANK	MODEL AIRPLANE NEWS	SEPT '87
HOWTO: ACE MOUNT FOR THE G-MARK	MODEL AIRPLANE NEWS	NOV '85
HOWTO: ADD ROUND WING TIPS	MODEL AIRPLANE NEWS	FEB '91
HOWTO: AIL TORQUE RODS	MODEL AIRPLANE NEWS	NOV '85
HOWTO: AN ANGLE SANDING JOG	MODEL AIRPLANE NEWS	APRIL '93
HOWTO: ANTENNA ANCHOR	MODEL AIRPLANE NEWS	FEB '86
HOWTO: ASSEMBLE DEANS CONNECTOR	MODEL AIRPLANE NEWS	NOV '85
HOWTO: Balsa BULKHEADS	MODEL AIRPLANE NEWS	SEPT '84
HOWTO: BAND SAW RIBS	MODEL AIRPLANE NEWS	MARCH '91
HOWTO: BAR CLAMP	MODEL AIRPLANE NEWS	JULY '86
HOWTO: BEND BRASS TUBES	MODEL AIRPLANE NEWS	NOV '85
HOWTO: BEND HEAVY WIRE	MODEL AIRPLANE NEWS	FEB '89
HOWTO: BRASS PUSHRODS	MODEL AIRPLANE NEWS	SEPT '85
HOWTO: BROOMSTICK FUSE STAND	MODEL AIRPLANE NEWS	JAN '93
HOWTO: BUILD A CG LOCATER	MODEL AIRPLANE NEWS	JAN '88
HOWTO: BUILDERS TRIANGLES	MODEL AIRPLANE NEWS	JAN '87
HOWTO: BUILT-UP PANTS	MODEL AIRPLANE NEWS	JULY '83
HOWTO: CAPSTRIP WING	MODEL AIRPLANE NEWS	JUNE '84
HOWTO: CARBON-FIBER FOR FORMER	MODEL AIRPLANE NEWS	NOV '85
HOWTO: CARBON FIBER FOR PUSHRODS	MODEL AIRPLANE NEWS	NOV '85
HOWTO: CARBON FIBER REINFORCED	MODEL AIRPLANE NEWS	SEPT '92
HOWTO: CARVE A PROP (GAS)	MODEL AIRPLANE NEWS	JAN '89
HOWTO: CLEAN MODEL SURFACES	MODEL AIRPLANE NEWS	APRIL '82
HOWTO: COMPUTER GENERATED LETTERS	MODEL AIRPLANE NEWS	NOV '85
HOWTO: CONVERT THE HURR CLUB	MODEL AIRPLANE NEWS	AUG '85
HOWTO: CLOTHESPIN CLAMPS	MODEL AIRPLANE NEWS	SEPT '88
HOWTO: CONTOUR SANDER	MODEL AIRPLANE NEWS	FEB '89
HOWTO: CONTROL MIDER	MODEL AIRPLANE NEWS	JULY '89
HOWTO: CUSTOM LANDING GEAR CLIPS	MODEL AIRPLANE NEWS	NOV '85
HOWTO: DIE-CUT PARTS	MODEL AIRPLANE NEWS	DEC '90
HOWTO: DIBEDRAL SUPPORT	MODEL AIRPLANE NEWS	JUNE '91
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 '91
HOWTO: ELECTRIC MOTOR MOUNT	MODEL AIRPLANE NEWS	JULY '88
HOWTO: ENGINE DRILL JOG	MODEL AIRPLANE NEWS	AUG '90
HOWTO: ENGINE MOUNT DRILL JOG	MODEL AIRPLANE NEWS	FEB '90
HOWTO: ENLARGE 3-VIEWS	MODEL AIRPLANE NEWS	APRIL '89
HOWTO: ENLARGE RIB SECTIONS	MODEL AIRPLANE NEWS	NOV '85

HOWTO: EVEN MORE LIFE 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-BONES MODEL AIRPLANE NEWS JUNE '83
HOWTO: HEAT SHRINK PLASTIC BOTTLE MODEL AIRPLANE NEWS JAN '85
HOWTO: IMPROVE THE BLACK WINDOW MODEL AIRPLANE NEWS JUNE '93
HOWTO: INSTALL FINISH 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 '91
HOWTO: LAM TIP HOWS MODEL AIRPLANE NEWS OCT '83
HOWTO: LIGHT BATTERY PACK MODEL AIRPLANE NEWS AUG '86
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 '84
HOWTO: MAKE A Balsa STRIPPER MODEL AIRPLANE NEWS NOV '88
HOWTO: MAKE A BARREL-WRAP TOOL MODEL AIRPLANE NEWS APRIL '92
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