GRUMMAN
F-14A
TOMCAT
DESIGNED AND DRAWN BY MATT HALTON 2001 ©
NET ADDRESS: http://www.geocities.com/grumman_uk
PROP DRIVEN
.32 - .40 ENGINES
SWING WING
WEIGHT: 5-7LBS. SPAN: 32" MIN. 57" MAX.
FOR EXPERIENCED BUILDERS ONLY!
EDF: 2 x WeMoTec MINI FANS (480) OR SIMILAR
CONGRATULATIONS! I WISH YOU EVERY SUCESS WITH YOUR F-14. PLEASE VISIT MY WEBSITE FOR FURTHER BUILDING ASSISTANCE.
TO BUILD 23% LARGER VERSION TO USE 90MM FANS TAKE THIS PLAN TO COPIERS, ENLARGE AT 123% (YES 123%)
CANOPY AVAILABLE FROM ME.
MAKE TIPS FROM BALSA
R10
LIGHTWEIGHT GRADED BALSA ('CONTEST') IS RECCOMENDED VERY HIGHLY FOR BEST FLIGHT PERFORMANCE!
TAILERON DEFLECTIONS:
1.5" (ROLL & PITCH) SET TO YOUR FLYING TASTES AFTER 1ST FLIGHT. WINGS FORWARD USE RATES FOR WINGS BACK
1/4" EACH WAY AILERON ONLY, PITCH IS THE SAME SETTING
NOTE: AS OF FEB. 2002, THIS MODEL IS AVAILABE IN CNC LASER CUT PARTS. EMAIL FOR DETAILS AT: planeplans@lineone.net
NOTE: PLEASE VISIT MY WEBSITE TO VIEW AN ON-LINE BUILDING SEQUENCE WITH PHOTO'S & TEXT. SEE BOX ABOVE FOR U.R.L.
IF YOU WOULD LIKE TO BUILD A LARGER VERSION TO USE 90MM FANS, TAKE THIS COPY TO YOUR COPY SHOP, ASK FOR A 123% ENLARGEMENT. THIS WILL SCALE THE MODEL BY A PHYSICAL 23% BIGGER.
THE LARGER VERSION CAN BE CONVERTED TO USE SPRING AIR MICRO RETRACTS.
LARGER CANOPY IS NOW AVAILABLE!
CARVE TAILERONS TO THIS SHAPE
GENERAL BUILDING NOTES:
CUT ALL FORMERS, REAR 1/8" (R1) BALSA FUS. CRUTCHES AND FORWARD FUS. SIDES (1/8" BALSA.
ENSURE YOU HAVE A VERY FLAT SURFACE TO BUILD ON.
TRIAL FIT ALL PARTS BEFORE GLUEING.
OPEN OUT FORMERS WHERE YOU INTEND PLACING BATTERIES TO FIT.
PLY SWING WING BOX IS FOR PROP VERSION ONLY.
BEING AN EXPERIENCED MODEL BUILDER, FEEL FREE TO MAKE MODIFICATIONS TO SUIT YOUR STYLE OF BUILDING.
IMPORTANT NOTES:
FORMER F7 MUST BE POSITIONED PERFECTLY SQUARE & VERTICAL AS MUST HINGE FITTING TO ENSURE A WARP FREE WING SET UP.
ALL INTERNAL DUCTING IS FROM 1/64" PLY, OR YOUR PREFERENCE.
SAVE WEIGHT WHEREVER POSSIBLE, WITHOUT ALTERING STRUCTURAL INTEGRITY.
WING SWEEP SERVO, AT LEAST 5KG TORQUE REQUIRED.
FOAM WINGS ARE PREFERRED, DUE TO SIMPLICITY & LIGHT WEIGHT. FIND A COMMERCIAL WING CUTTING FIRM IF YOU ARE NOT ABLE TO CUT YOUR OWN WINGS.
USE A PLASTIC F-14 KIT FOR REFERENCE, I FOUND IT VERY USEFUL.
USE CARBON TUBES TO ACTUATE WING SWEEP FROM SERVO.
WOOD SELECTION:
USE THE LIGHTEST BALSA AVAILABLE, ALL PLY, UNLESS STATED, IS LITEPLY.
REMEMBER TO ENSURE PASSAGE BETWEEN FORMERS ALLOWS FOR SERVO EXTENTION LEADS, ETC.
IF ANYTHING ABOUT THE CONSTRUCTION IS UNCLEAR TO YOU, PLEASE CONTACT ME THROUGH MY PRESENT E-MAIL ADDRESS, OR WRITE TO ME.
MANY THANKS ON SELECTING THE F-14 TOMCAT, PLEASE LET ME KNOW HOW YOURS DEVELOPS & SHARE PHOTOGRAPHS.
FOOT NOTE: PLAN VIEW OF FUSELAGE IS SPLIT - 1/2 SIDE SHOWS UPPER DETAILS, OTHER HALF SHOWS LOWER DETAILS.
GA (x2) 1/8" LITEPLY
(YOU MAY NEED TO TRIM THESE PARTS AFTER FITTING)
GB (x2) 1/8" LITEPLY
LOWER WING GLOVE FAIRING 1/8" BALSA
BEFORE BUILDING PLEASE STUDY DRAWINGS TO ASSIST IN YOUR UNDERSTANDING!
BASIC FUSELAGE CONSTRUCTION (NOT TO SCALE)
MOULDED CLEAR CANOPYS AVAILABLE FROM DESIGNER FOR BOTH VERSIONS
ALTERNATIVE WING BOX STRUCTURE.
UNDER PANEL SWING WING BOX 1/8" LITEPLY
PLANK ENTIRE MODEL WITH 3/32" BALSA EXCEPT WHERE INDICATED
GLOVE TIP (CD)
1/8" BALSA
1/2" TRIANGULAR SECTION BALSA
R1 2 OFF 1/8" BALSA
R2 REAR FUSELAGE SIDES
1/4 BALSA (x2)
F1 1/8" LITEPLY FOR PROP VERSION
GC 1/8" LITEPLY
F7 1/8" LITEPLY
WING GLOVE TIP 1/4" BALSA (GD)