GRUMMAN

F-14A TOMCAT

DESIGNED AND DRAWN BY MATT HALTON 2001 ©

NET ADDRESS: http://www.geocities.com/grumman_us

PROP DRIVEN	1.33-1.40 ENGINES. SWING WING
WEIGHT: 5-7LBS. SPAN: 32"MIN. 57"MAX.	
FOR EXPERIENCED BUILDERS ONLY!	
EDF: 64 METRIC MINI FANS (x2) OR SIMILAR	

CONGRATULATIONS! I WISH YOU EVERY SUCCESS 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% (186%) CANOPY AVAILABLE FROM ME

LIGHTWEIGHT GRADED BALSA CONTEST 2/3 RECOMMENDED VERY HIGHLY FOR BEST FLIGHT PERFORMANCE!

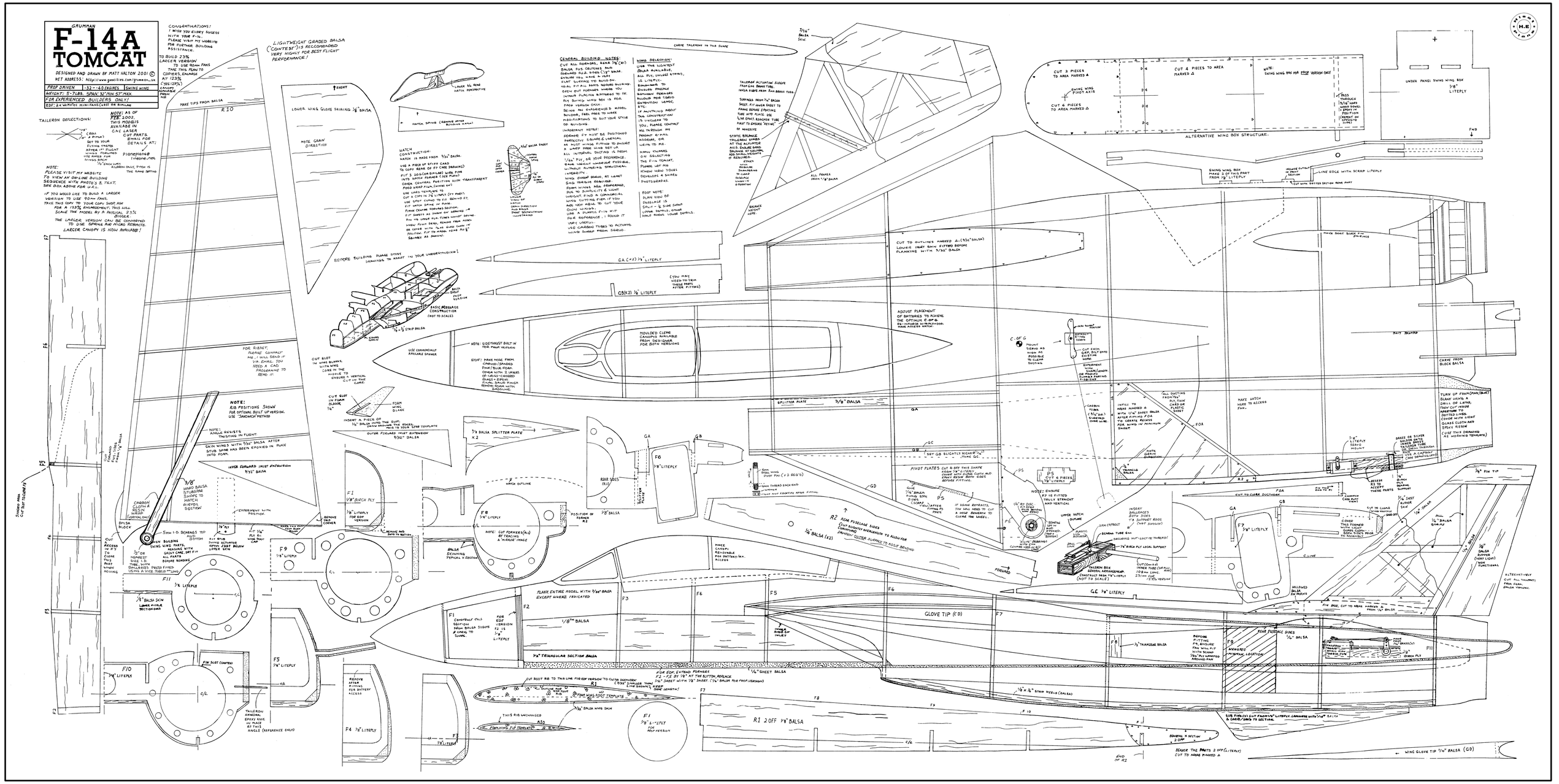
TAILERON DEFLECTIONS:

NOTE: AS OF FEB 2002, THIS MODELS AVAILABLE IN CNC LASER CUT PARTS. EMAIL FOR DETAILS AT: Pionerplane@hotmail.com

NOTE: PLEASE VISIT MY WEBSITE TO VIEW AN ON-LINE BUILDING SEQUENCE WITH PHOTOS & TEXT. SEE BOX ABOVE FOR URL.

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 INITIAL 23% BIGGER.

THE LARGER VERSION CAN BE CONVERTED TO USE 50mm AIR MICRO RETRACTS. LARGER CANOPY IS NOW AVAILABLE!


GENERAL BUILDING NOTES:
WOOD SELECTION:
TAILERON ACTUATOR SLEEVE FROM 6mm BRASS TUBE.
STATIC BALANCE
ALTERNATIVE WING BOX STRUCTURE.
UNDER PANEL SWING WING BOX 1/8" LITEPLY
SWING WING BOX MAKE 2 OF THIS PART FROM 1/8" LITEPLY
LINE EDGE WITH SCRAP LITEPLY
CUT 3 PIECES TO AREA MARKED A
CUT 4 PIECES TO AREA MARKED B
CUT 6 PIECES TO AREA MARKED C
SWING WING PIVOT AXIS
NOTE: SWING WING BOX FOR EDF VERSION ONLY
PASS THROUGH 3/16" HARD WOOD DOWEL IN ANY POSITION (DEPENT ON SERVOS USED)
FWD
ALL FRAMES FROM 1/8" BALSA
BALANCE WEIGHT HERE
CUT TO OUTLINES MARKED A (3/32" BALSA)
LOWER (NOT SHOWN) FITTED BEFORE FLANKING WITH 3/32" BALSA
GA (x2) 1/8" LITEPLY
CB (x2) 1/8" LITEPLY
(YOU MAY NEED TO TRIM THESE PARTS AFTER FITTING)
LOWER WING GLOVE FAIRING 1/8" BALSA
MAKE TIPS FROM BALSA
R10
NOTE GRAIN DIRECTION
BEFORE BUILDING PLEASE STUDY DIAGRAMS TO ASSIST IN YOUR UNDERSTANDING!
BASIC FUSELAGE CONSTRUCTION (NOT TO SCALE)
MOULDED CLEAR CANOPIES AVAILABLE FROM DESIGNER FOR BOTH VERSIONS
USE COMMERCIALLY AVAILABLE SPINNER
NOTE: SIDETHRUST BUILT IN FOR FMAN VERSION
ADJUST PLACEMENT OF BATTERIES TO ACHIEVE THE OPTIMUM C OF G.
MAKE BOXES BUILT FOR FANWINGS
CARVE FROM BLOCK BALSA
FOR RIBSET, PLEASE CONTACT ME & I WILL SEND IT VIA EMAIL. YOU NEED A CAD PROGRAMME TO READ IT.
NOTE: RIB POSITIONS SHOWN FOR OPTIONAL BUILT UP VERSION. USE "SANDWICH" METHOD
SPLITTER PLATE 3/8" BALSA
3/8" BALSA SPLITTER PLATE x2
PIVOT PLATES
R2 REAR FUSELAGE SIDES 1/8" BALSA (x2)
GC 1/8" LITEPLY
GLOVE TIP (CD)
PLANK ENTIRE MODEL WITH 3/16" BALSA EXCEPT WHERE INDICATED
1/8" BALSA
1/8" TRIANGULAR SECTION BALSA
1/16" SHEET BALSA
R1 2 OFF 1/8" BALSA
REAR FUSELAGE SIDES 1/16" BALSA
WING GLOVE TIP 1/16" BALSA (CD)
REMOVE THE PARTS 2 OFF (LITEPLY) CUT TO AREA MARKED A
ALTERNATIVELY CUT ALL TAILPARTS FROM FMAN BALSA VERSION.
SUB FOR F1 CUT FROM 1/8" LITEPLY. LAMINATE WITH 1/16" BALSA & GRAIN LINES TO SECTION.
F1 CONSTRUCT THIS SECTION FROM BALSA SHEETS & CHECK TO SUITS.
FOR EDF VERSION F2 IS 1/8" LITEPLY
FOR EDF VERSION TO CLEAR DUCTWORK
FOR EDF EXTRA FORMERS F2 - F5 BY 1/8" AT THE SLITTER PLATE
FOR EDF VERSION F1 IS 1/8" LITEPLY
F1 2 OFF 1/8" BALSA
F2 1/8" LITEPLY
F3 1/8" LITEPLY
F4 1/8" LITEPLY
F5 1/8" LITEPLY
F6 1/8" LITEPLY
F7 1/8" LITEPLY
F8 1/8" LITEPLY
F9 1/8" LITEPLY
F10 1/8" LITEPLY
F11 1/8" LITEPLY
GA
GB
GC
GD
FOA
FOB
CB
C.L.
C.G.
P5
R2
R1
R10
FOR EDF VERSION
FOR FMAN VERSION
FOR FMAN VERSION ONLY
FOR EDF VERSION ONLY