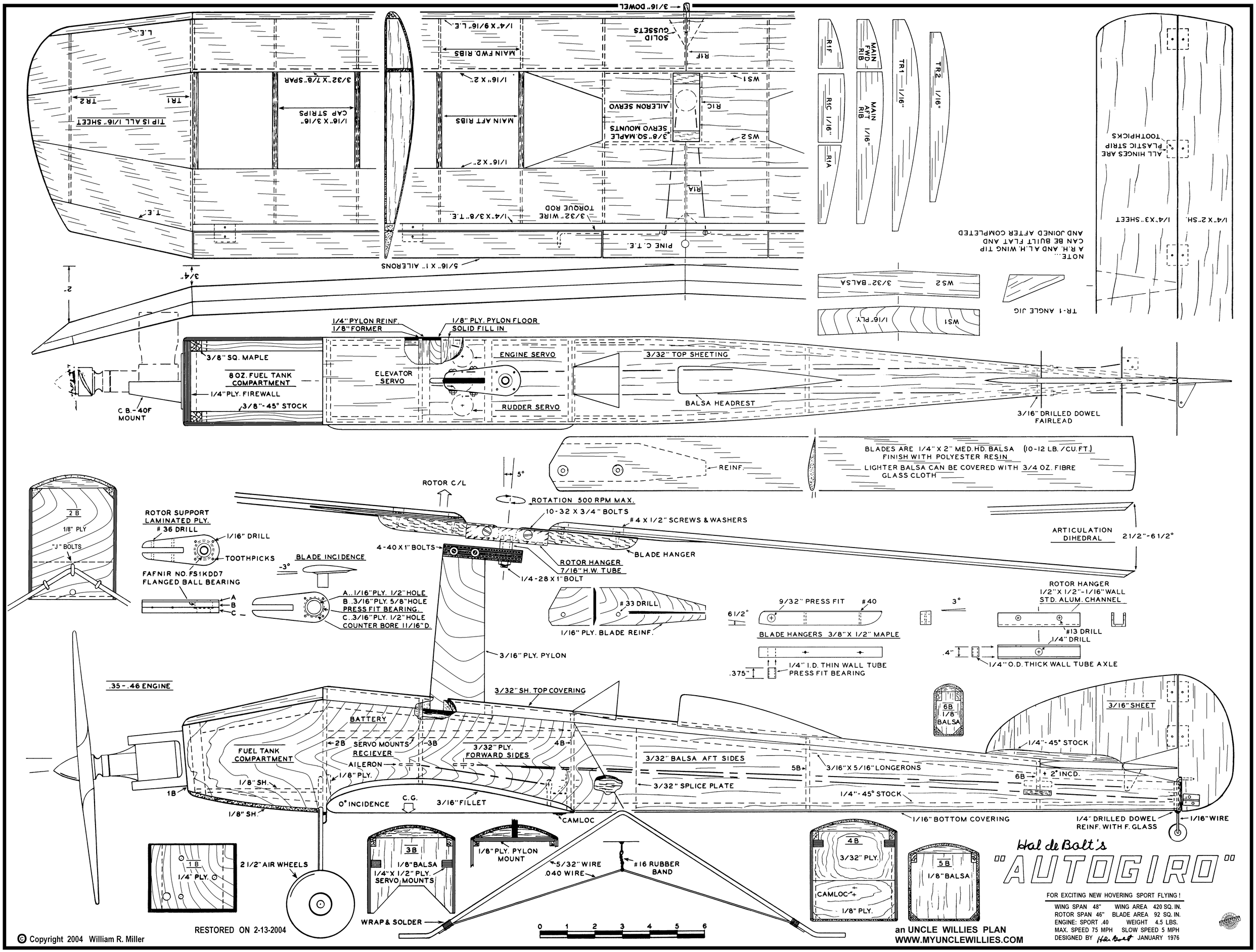
3/16" DOWEL
SOLID GUSSETS
1/4" X 9/16" L.E.
MAIN FWD. RIBS
R1F
WS1
1/16" X 2"
3/32" X 7/8" SPAR
TR1
TR2
TIP IS ALL 1/16" SHEET
1/16" X 3/16" CAP STRIPS
MAIN AFT RIBS
AILERON SERVO
R1C
3/8" SQ. MAPLE SERVO MOUNTS
WS2
1/16" X 2"
R1A
3/32" WIRE TORQUE ROD
1/4" X 3/8" T.E.
PINE C.T.E.
5/16" X 1" AILERONS
T.E.
R1F
R1C 1/16"
R1A
MAIN FWD RIB
MAIN AFT RIB 1/16"
TR1 1/16"
TR2 1/16"
1/4" X 2" SH.
1/4" X 3" SHEET
ALL HINGES ARE PLASTIC STRIP TOOTHPICKS
NOTE... A R.H. AND A L.H. WING TIP CAN BE BUILT FLAT AND AND JOINED AFTER COMPLETED
TR-1 ANGLE JIG
WS2 3/32" BALSA
WS1 1/16" PLY.
3/4"
2"
1/4" PYLON REINF. 1/8" FORMER
1/8" PLY. PYLON FLOOR SOLID FILL IN
3/8" SQ. MAPLE
8 OZ. FUEL TANK COMPARTMENT
1/4" PLY. FIREWALL
3/8"-45° STOCK
C.B.-40F MOUNT
ELEVATOR SERVO
ENGINE SERVO
RUDDER SERVO
3/32" TOP SHEETING
BALSA HEADREST
3/16" DRILLED DOWEL FAIRLEAD
REINF.
BLADES ARE 1/4" X 2" MED. HD. BALSA (10-12 LB./CU.FT.)
FINISH WITH POLYESTER RESIN
LIGHTER BALSA CAN BE COVERED WITH 3/4 OZ. FIBRE GLASS CLOTH
2B
1/8" PLY
"J" BOLTS
ROTOR C/L
5°
ROTATION 500 RPM MAX.
10-32 X 3/4" BOLTS
4 X 1/2" SCREWS & WASHERS
ARTICULATION DIHEDRAL
21/2"-61/2°
ROTOR SUPPORT LAMINATED PLY.
36 DRILL
1/16" DRILL
TOOTHPICKS
FAFNIR NO. FS1KDD7 FLANGED BALL BEARING
A
B
C
BLADE INCIDENCE
-3°
4-40 X 1" BOLTS
ROTOR HANGER 7/16" H.W. TUBE
1/4-28 X 1" BOLT
BLADE HANGER
A. 1/16" PLY. 1/2" HOLE
B. 3/16" PLY. 5/8" HOLE PRESS FIT BEARING.
C. 3/16" PLY. 1/2" HOLE COUNTER BORE 11/16" D.
33 DRILL
1/16" PLY. BLADE REINF.
9/32" PRESS FIT
40
61/2°
BLADE HANGERS 3/8" X 1/2" MAPLE
1/4" I.D. THIN WALL TUBE PRESS FIT BEARING
.375"
3°
ROTOR HANGER 1/2" X 1/2"-1/16" WALL STD. ALUM. CHANNEL
#13 DRILL
1/4" DRILL
.4"
1/4" O.D. THICK WALL TUBE AXLE
3/16" PLY. PYLON
.35-.46 ENGINE
3/32" SH. TOP COVERING
BATTERY
FUEL TANK COMPARTMENT
2B
SERVO MOUNTS
RECIEVER
3B
AILERON
1/8" PLY.
3/32" PLY. FORWARD SIDES
4B
1/8" SH.
1B
0° INCIDENCE
C.G.
3/16" FILLET
1/8" SH.
CAMLOC
3/32" BALSA AFT SIDES
3/32" SPLICE PLATE
5B
3/16" X 5/16" LONGERONS
6B
+ 2° INCD.
1/4"-45° STOCK
1/16" BOTTOM COVERING
6B 1/8" BALSA
3/16" SHEET
1/4"-45° STOCK
1/4" DRILLED DOWEL REINF. WITH F. GLASS
1/16" WIRE
1B
1/4" PLY.
2 1/2" AIR WHEELS
3B
1/8" BALSA
1/4" X 1/2" PLY. SERVO MOUNTS
WRAP & SOLDER
1/8" PLY. PYLON MOUNT
5/32" WIRE
.040 WIRE
16 RUBBER BAND
4B
3/32" PLY.
CAMLOC
1/8" PLY.
5B
1/8" BALSA
0 1 2 3 4 5 6
Hal de Bolt's
"AUTOGIRO"
FOR EXCITING NEW HOVERING SPORT FLYING!
WING SPAN 48" WING AREA 420 SQ. IN.
ROTOR SPAN 46" BLADE AREA 92 SQ. IN.
ENGINE: SPORT .40 WEIGHT 4.5 LBS.
MAX. SPEED 75 MPH SLOW SPEED 5 MPH
DESIGNED BY Hal de Bolt JANUARY 1976
an UNCLE WILLIES PLAN
WWW.MYUNCLEWILLIES.COM
RESTORED ON 2-13-2004
© Copyright 2004 William R. Miller