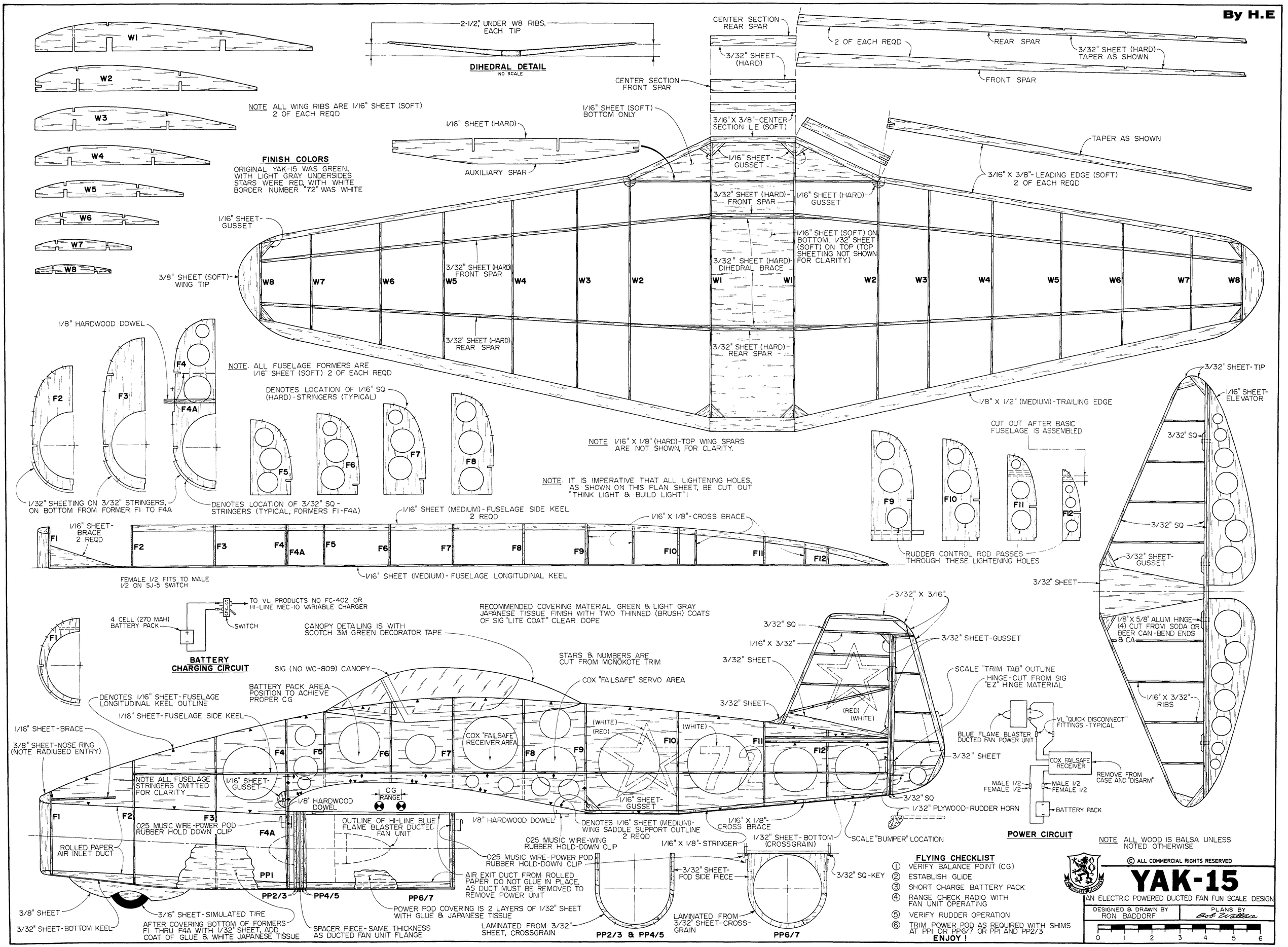
By H.E


W1
W2
W3
W4
W5
W6
W7
W8
2-1/2" UNDER W8 RIBS, EACH TIP
DIHEDRAL DETAIL
NO SCALE
NOTE ALL WING RIBS ARE 1/16" SHEET (SOFT) 2 OF EACH REQD
FINISH COLORS
ORIGINAL YAK-15 WAS GREEN, WITH LIGHT GRAY UNDERSIDES STARS WERE RED, WITH WHITE BORDER NUMBER "72" WAS WHITE
1/16" SHEET (HARD)
AUXILIARY SPAR
1/16" SHEET (SOFT) BOTTOM ONLY
CENTER SECTION REAR SPAR
3/32" SHEET (HARD)
CENTER SECTION FRONT SPAR
3/16" X 3/8"-CENTER SECTION L E (SOFT)
1/16" SHEET-GUSSET
2 OF EACH REQD
REAR SPAR
3/32" SHEET (HARD) TAPER AS SHOWN
FRONT SPAR
TAPER AS SHOWN
3/16" X 3/8"-LEADING EDGE (SOFT) 2 OF EACH REQD
3/32" SHEET (HARD)-FRONT SPAR
1/16" SHEET (HARD)-GUSSET
1/16" SHEET (SOFT) ON BOTTOM. 1/32" SHEET (SOFT) ON TOP (TOP SHEETING NOT SHOWN FOR CLARITY)
3/32" SHEET (HARD)-DIHEDRAL BRACE
3/32" SHEET (HARD)-REAR SPAR
1/16" SHEET-GUSSET
3/8" SHEET (SOFT)-WING TIP
3/32" SHEET (HARD) FRONT SPAR
3/32" SHEET (HARD) REAR SPAR
1/8" X 1/2" (MEDIUM)-TRAILING EDGE
1/8" HARDWOOD DOWEL
F2
F3
F4
F4A
NOTE. ALL FUSELAGE FORMERS ARE 1/16" SHEET (SOFT) 2 OF EACH REQD
DENOTES LOCATION OF 1/16" SQ (HARD)-STRINGERS (TYPICAL)
F5
F6
F7
F8
NOTE 1/16" X 1/8" (HARD)-TOP WING SPARS ARE NOT SHOWN, FOR CLARITY.
NOTE. IT IS IMPERATIVE THAT ALL LIGHTENING HOLES, AS SHOWN ON THIS PLAN SHEET, BE CUT OUT "THINK LIGHT & BUILD LIGHT"!
1/32" SHEETING ON 3/32" STRINGERS, ON BOTTOM FROM FORMER F1 TO F4A
DENOTES LOCATION OF 3/32" SQ-STRINGERS (TYPICAL, FORMERS F1-F4A)
1/16" SHEET (MEDIUM)-FUSELAGE SIDE KEEL 2 REQD
1/16" X 1/8"-CROSS BRACE
1/16" SHEET-BRACE 2 REQD
F1
F9
F10
F11
F12
CUT OUT AFTER BASIC FUSELAGE IS ASSEMBLED
RUDDER CONTROL ROD PASSES THROUGH THESE LIGHTENING HOLES
FEMALE 1/2 FITS TO MALE 1/2 ON SJ-5 SWITCH
1/16" SHEET (MEDIUM)-FUSELAGE LONGITUDINAL KEEL
3/32" SHEET-TIP
1/16" SHEET-ELEVATOR
3/32" SQ
3/32" SHEET-GUSSET
3/32" SHEET
1/8" X 5/8" ALUM HINGE (4) CUT FROM SODA OR BEER CAN-BEND ENDS & CA
1/16" X 3/32"-RIBS
TO VL PRODUCTS NO FC-402 OR HI-LINE MEC-10 VARIABLE CHARGER
4 CELL (270 MAH) BATTERY PACK
SWITCH
BATTERY CHARGING CIRCUIT
RECOMMENDED COVERING MATERIAL GREEN & LIGHT GRAY JAPANESE TISSUE FINISH WITH TWO THINNED (BRUSH) COATS OF SIG "LITE COAT" CLEAR DOPE
CANOPY DETAILING IS WITH SCOTCH 3M GREEN DECORATOR TAPE
STARS & NUMBERS ARE CUT FROM MONOKOTE TRIM
3/32" X 3/16"
3/32" SQ
1/16" X 3/32"
3/32" SHEET
3/32" SHEET-GUSSET
SCALE "TRIM TAB" OUTLINE
HINGE-CUT FROM SIG "EZ" HINGE MATERIAL
SIG (NO WC-809) CANOPY
BATTERY PACK AREA POSITION TO ACHIEVE PROPER CG
COX "FAILSAFE" SERVO AREA
DENOTES 1/16" SHEET-FUSELAGE LONGITUDINAL KEEL OUTLINE
1/16" SHEET-FUSELAGE SIDE KEEL
1/16" SHEET-BRACE
3/8" SHEET-NOSE RING (NOTE RADIUSED ENTRY)
COX "FAILSAFE" RECEIVER AREA
(WHITE)
(RED)
(RED)
(WHITE)
NOTE ALL FUSELAGE STRINGERS OMITTED FOR CLARITY
1/16" SHEET-GUSSET
1/8" HARDWOOD DOWEL
CG RANGE
1/16" SHEET-GUSSET
3/32" SHEET
3/32" SQ
1/32" PLYWOOD-RUDDER HORN
BLUE FLAME BLASTER DUCTED FAN POWER UNIT
VL "QUICK DISCONNECT" FITTINGS-TYPICAL
COX FAILSAFE RECEIVER
REMOVE FROM CASE AND "DISARM"
MALE 1/2 FEMALE 1/2
MALE 1/2 FEMALE 1/2
BATTERY PACK
POWER CIRCUIT
025 MUSIC WIRE-POWER POD RUBBER HOLD DOWN CLIP
OUTLINE OF HI-LINE BLUE FLAME BLASTER DUCTED FAN UNIT
1/8" HARDWOOD DOWEL
DENOTES 1/16" SHEET (MEDIUM)-WING SADDLE SUPPORT OUTLINE 2 REQD
1/16" X 1/8"-CROSS BRACE
SCALE "BUMPER" LOCATION
ROLLED PAPER AIR INLET DUCT
025 MUSIC WIRE-WING RUBBER HOLD-DOWN CLIP
1/32" SHEET-BOTTOM (CROSSGRAIN)
1/16" X 1/8"-STRINGER
025 MUSIC WIRE-POWER POD RUBBER HOLD-DOWN CLIP
AIR EXIT DUCT FROM ROLLED PAPER DO NOT GLUE IN PLACE, AS DUCT MUST BE REMOVED TO REMOVE POWER UNIT
3/32" SHEET-POD SIDE PIECE
3/32" SQ-KEY
PP1
PP2/3
PP4/5
PP6/7
POWER POD COVERING IS 2 LAYERS OF 1/32" SHEET WITH GLUE & JAPANESE TISSUE
3/8" SHEET
3/32" SHEET-BOTTOM KEEL
3/16" SHEET-SIMULATED TIRE
AFTER COVERING BOTTOM OF FORMERS F1 THRU F4A WITH 1/32" SHEET, ADD COAT OF GLUE & WHITE JAPANESE TISSUE
SPACER PIECE-SAME THICKNESS AS DUCTED FAN UNIT FLANGE
LAMINATED FROM 3/32" SHEET, CROSSGRAIN
LAMINATED FROM 3/32" SHEET-CROSS-GRAIN
PP2/3 & PP4/5
PP6/7
FLYING CHECKLIST
1 VERIFY BALANCE POINT (CG)
2 ESTABLISH GLIDE
3 SHORT CHARGE BATTERY PACK
4 RANGE CHECK RADIO WITH FAN UNIT OPERATING
5 VERIFY RUDDER OPERATION
6 TRIM POWER POD AS REQUIRED WITH SHIMS AT PP1 OR PP6/7 OR PP1 AND PP2/3
ENJOY !
NOTE ALL WOOD IS BALSA UNLESS NOTED OTHERWISE
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YAK-15
AN ELECTRIC POWERED DUCTED FAN FUN SCALE DESIGN
DESIGNED & DRAWN BY RON BADDORF
PLANS BY Bob Wallace
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