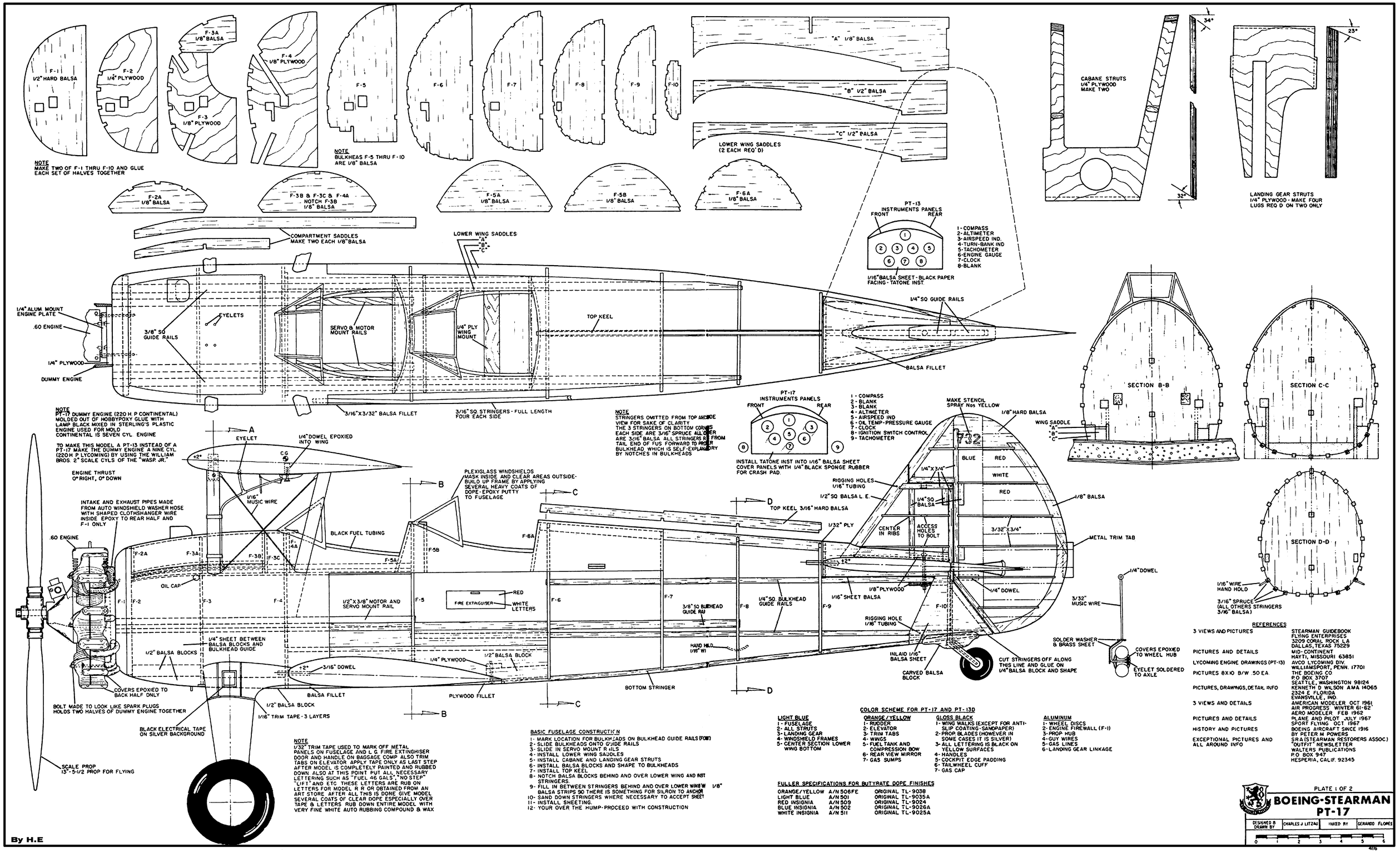

BASIC FUSELAGE CONSTRUCTION

1. MARK LOCATION FOR BULKHEADS ON BULKHEAD GUIDE RAILS (FOR)
2. SLIDE BULKHEADS ONTO GUIDE RAILS
3. SLIDE IN SERVO MOUNT RAILS
4. INSTALL LOWER WING SADDLES
5. INSTALL CABANE AND LANDING GEAR STRUTS
6. INSTALL BALSA BLOCKS AND SHAPE TO BULKHEADS
7. INSTALL TOP KEEL
8. NOTCH BALSA BLOCKS BEHIND AND OVER LOWER WING AND INST STRINGERS.
9. FILL IN BETWEEN STRINGERS BEHIND AND OVER LOWER WING W 1/8" BALSA STRIPS SO THERE IS SOMETHING FOR SILRON TO ANCHOR
10. SAND DOWN STRINGERS WHERE NECESSARY TO ACCEPT SHEET
11. INSTALL SHEETING.
12. YOUR OVER THE HUMP - PROCEED WITH CONSTRUCTION

COLOR SCHEME FOR PT-17 AND PT-13D

LIGHT BLUE	ORANGE/YELLOW	GLOSS BLACK	ALUMINUM
1 - FUSELAGE	1 - RUDDER	1 - WING WALKS (EXCEPT FOR ANTI-SLIP COATING - SANDPAPER)	1 - WHEEL DISCS
2 - ALL STRUTS	2 - ELEVATOR	2 - PROP BLADES (HOWEVER IN SOME CASES IT IS SILVER)	2 - ENGINE FIREWALL (F-1)
3 - LANDING GEAR	3 - TRIM TABS	3 - ALL LETTERING IS BLACK ON YELLOW SURFACES	3 - PROP HUB
4 - WINDSHIELD FRAMES	4 - WINGS	4 - HANDLES	4 - GUY WIRES
5 - CENTER SECTION LOWER WING BOTTOM	5 - FUEL TANK AND COMPRESSION BOW	5 - COCKPIT EDGE PADDING	5 - GAS LINES
	6 - REAR VIEW MIRROR	6 - TAILWHEEL CUFF	6 - LANDING GEAR LINKAGE
	7 - GAS SUMPS	7 - GAS CAP	

FULLER SPECIFICATIONS FOR BUTYRATE DOPE FINISHES

ORANGE/YELLOW	A/N 506FE	ORIGINAL TL-9038
LIGHT BLUE	A/N 501	ORIGINAL TL-9035A
RED INSIGNIA	A/N 509	ORIGINAL TL-9024
BLUE INSIGNIA	A/N 502	ORIGINAL TL-9026A
WHITE INSIGNIA	A/N 511	ORIGINAL TL-9025A

REFERENCES

3 VIEWS AND PICTURES	STEARMAN GUIDEBOOK FLYING ENTERPRISES 3209 CORAL ROCK LA DALLAS, TEXAS 75229
PICTURES AND DETAILS	MID-CONTINENT MAYTI, MISSOURI 63851
LYCOMING ENGINE DRAWINGS (PT-13)	AVCO LYCOMING DIV. WILLIAMSPORT, PENN. 17701
PICTURES 8X10 B/W .50 EA.	THE BOEING CO P.O. BOX 3707 SEATTLE, WASHINGTON 98124
PICTURES, DRAWINGS, DETAIL INFO	KENNETH D WILSON AMA 14065 2324 E FLORIDA EVANSVILLE, IND.
3 VIEWS AND DETAILS	AMERICAN MODELER OCT 1961 AIR PROGRESS WINTER 61-62' AERO MODELER FEB 1962
PICTURES AND DETAILS	PLANE AND PILOT JULY 1967 SPORT FLYING OCT 1967
HISTORY AND PICTURES	BOEING AIRCRAFT SINCE 1916 BY PETER M POWERS
EXCEPTIONAL PICTURES AND ALL AROUND INFO	SRA (STEARMAN RESTORERS ASSOC) "OUTFIT" NEWSLETTER WALTERS PUBLICATIONS P.O. BOX 947 HESPERIA, CALIF. 92345

PLATE 1 OF 2

BOEING-STEARMAN PT-17

DESIGNED & DRAWN BY	CHARLES J LITZAU	INKED BY	GERARDO FLORES

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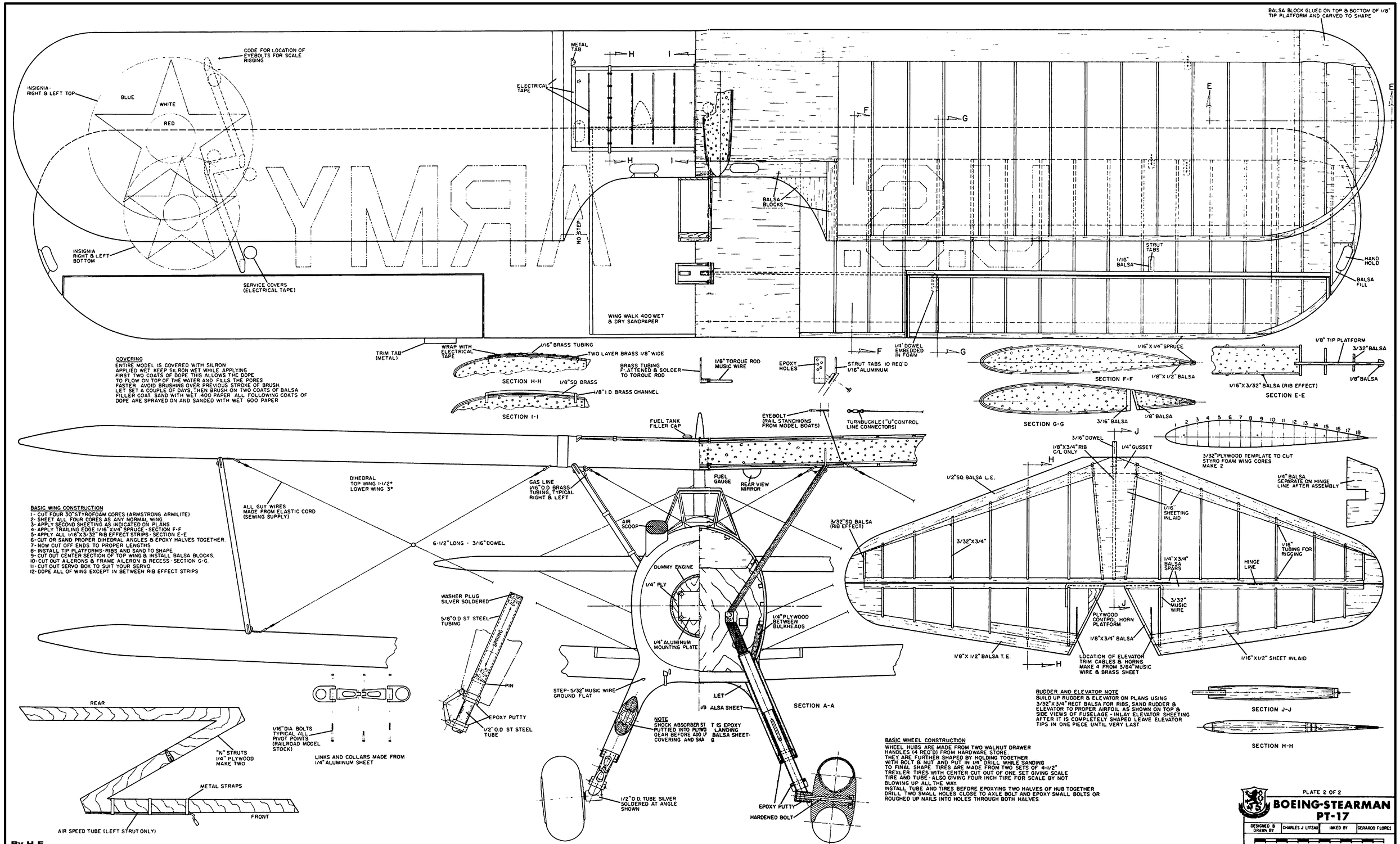
By H.E


CODE FOR LOCATION OF EYEBOLTS FOR SCALE RIGGING
INSIGNIA - RIGHT & LEFT TOP
BLUE
WHITE
RED
INSIGNIA RIGHT & LEFT BOTTOM
SERVICE COVERS (ELECTRICAL TAPE)
METAL TAB
ELECTRICAL TAPE
NO STEP
WING WALK 400 WET & DRY SANDPAPER
BALSA BLOCKS
BALSA BLOCK GLUED ON TOP & BOTTOM OF 1/8" TIP PLATFORM AND CARVED TO SHAPE
STRUT TABS
1/16" BALSA
HAND HOLD
BALSA FILL
TRIM TAB (METAL)
WRAP WITH ELECTRICAL TAPE
1/16" BRASS TUBING
TWO LAYER BRASS 1/8" WIDE
SECTION H-H
1/8" SQ BRASS
1/8" I D BRASS CHANNEL
SECTION I-I
BRASS TUBING FLATTENED & SOLDER TO TORQUE ROD
1/8" TORQUE ROD MUSIC WIRE
EPOXY HOLES
STRUT TABS 10 REQ'D 1/16" ALUMINUM
1/4" DOWEL EMBEDDED IN FOAM
1/16" X 1/4" SPRUCE
1/8" X 1/2" BALSA
SECTION F-F
1/8" TIP PLATFORM
3/32" BALSA
1/16" X 3/32" BALSA (RIB EFFECT)
1/8" BALSA
SECTION E-E
3/16" BALSA
1/8" BALSA
SECTION G-G
COVERING
ENTIRE MODEL IS COVERED WITH SILRON
APPLIED WET KEEP SILRON WET WHILE APPLYING
FIRST TWO COATS OF DOPE THIS ALLOWS THE DOPE
TO FLOW ON TOP OF THE WATER AND FILLS THE PORES
FASTER AVOID BRUSHING OVER PREVIOUS STROKE OF BRUSH
LET SET A COUPLE OF DAYS, THEN BRUSH ON TWO COATS OF BALSA
FILLER COAT SAND WITH WET 400 PAPER ALL FOLLOWING COATS OF
DOPE ARE SPRAYED ON AND SANDED WITH WET 600 PAPER
FUEL TANK FILLER CAP
EYEBOLT (RAIL STANCHIONS FROM MODEL BOATS)
TURNBUCKLE ("U" CONTROL LINE CONNECTORS)
DIHEDRAL TOP WING 1-1/2° LOWER WING 3°
GAS LINE 1/16" O D BRASS TUBING, TYPICAL RIGHT & LEFT
FUEL GAUGE
REAR VIEW MIRROR
ALL GUY WIRES MADE FROM ELASTIC CORD (SEWING SUPPLY)
6-1/2" LONG - 3/16" DOWEL
AIR SCOOP
DUMMY ENGINE
1/4" PLY
1/4" ALUMINUM MOUNTING PLATE
1/4" PLYWOOD BETWEEN BULKHEADS
WASHER PLUG SILVER SOLDERED
5/8" O D ST STEEL TUBING
SPRING
PIN
EPOXY PUTTY
1/2" O D ST STEEL TUBE
STEP- 5/32" MUSIC WIRE GROUND FLAT
LET
1/8 ALSA SHEET
SECTION A-A
NOTE
SHOCK ABSORBER ST T IS EPOXY PUTTIED INTO PLYWO LANDING GEAR BEFORE ADD 1/ BALSA SHEET- COVERING AND SHA G
1/2" O D. TUBE SILVER SOLDERED AT ANGLE SHOWN
EPOXY PUTTY
HARDENED BOLT
BASIC WING CONSTRUCTION
1- CUT FOUR 30" STYROFOAM CORES (ARMSTRONG ARMILITE)
2- SHEET ALL FOUR CORES AS ANY NORMAL WING
3- APPLY SECOND SHEETING AS INDICATED ON PLANS
4- APPLY TRAILING EDGE 1/16" X 1/4" SPRUCE - SECTION F-F
5- APPLY ALL 1/16" X 3/32" RIB EFFECT STRIPS - SECTION E-E
6- CUT OR SAND PROPER DIHEDRAL ANGLES & EPOXY HALVES TOGETHER.
7- NOW CUT OFF ENDS TO PROPER LENGTHS
8- INSTALL TIP PLATFORMS - RIBS AND SAND TO SHAPE
9- CUT OUT CENTER SECTION OF TOP WING & INSTALL BALSA BLOCKS.
10- CUT OUT AILERONS & FRAME AILERON & RECESS - SECTION G-G.
11- CUT OUT SERVO BOX TO SUIT YOUR SERVO.
12- DOPE ALL OF WING EXCEPT IN BETWEEN RIB EFFECT STRIPS
3/32" PLYWOOD TEMPLATE TO CUT STYRO FOAM WING CORES MAKE 2
3/16" DOWEL
1/8" X 3/4" RIB C/L ONLY
1/4" GUSSET
1/2" SQ. BALSA L.E.
1/4" BALSA SEPARATE ON HINGE LINE AFTER ASSEMBLY
1/16" SHEETING INLAID
3/32" SQ. BALSA (RIB EFFECT)
3/32" X 3/4"
1/16" TUBING FOR RIGGING
1/4" X 3/4" BALSA SPARS
HINGE LINE
3/32" MUSIC WIRE
PLYWOOD CONTROL HORN PLATFORM
1/8" X 3/4" BALSA
1/8" X 1/2" BALSA T.E.
LOCATION OF ELEVATOR TRIM CABLES & HORNS MAKE 4 FROM 3/64" MUSIC WIRE & BRASS SHEET
1/16" X 1/2" SHEET INLAID
RUDDER AND ELEVATOR NOTE
BUILD UP RUDDER & ELEVATOR ON PLANS USING 3/32" X 3/4" RECT BALSA FOR RIBS, SAND RUDDER & ELEVATOR TO PROPER AIRFOIL AS SHOWN ON TOP & SIDE VIEWS OF FUSELAGE - INLAY ELEVATOR SHEETING AFTER IT IS COMPLETELY SHAPED LEAVE ELEVATOR TIPS IN ONE PIECE UNTIL VERY LAST
SECTION J-J
SECTION H-H
REAR
"N" STRUTS 1/4" PLYWOOD MAKE TWO
1/16" DIA BOLTS TYPICAL ALL PIVOT POINTS (RAILROAD MODEL STOCK)
LINKS AND COLLARS MADE FROM 1/4" ALUMINUM SHEET
METAL STRAPS
FRONT
AIR SPEED TUBE (LEFT STRUT ONLY)
BASIC WHEEL CONSTRUCTION
WHEEL HUBS ARE MADE FROM TWO WALNUT DRAWER HANDLES (4 REQ'D) FROM HARDWARE STORE.
THEY ARE FURTHER SHAPED BY HOLDING TOGETHER WITH BOLT & NUT AND PUT IN 1/4" DRILL WHILE SANDING TO FINAL SHAPE. TIRES ARE MADE FROM TWO SETS OF 4-1/2" TREXLER TIRES WITH CENTER CUT OUT OF ONE SET GIVING SCALE TIRE AND TUBE - ALSO GIVING FOUR INCH TIRE FOR SCALE BY NOT BLOWING UP ALL THE WAY
INSTALL TUBE AND TIRES BEFORE EPOXYING TWO HALVES OF HUB TOGETHER
DRILL TWO SMALL HOLES CLOSE TO AXLE BOLT AND EPOXY SMALL BOLTS OR ROUGHED UP NAILS INTO HOLES THROUGH BOTH HALVES
PLATE 2 OF 2
BOEING-STEARMAN PT-17
DESIGNED & DRAWN BY
CHARLES J LITZAU
INKED BY
GERARDO FLORES
By H.E
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