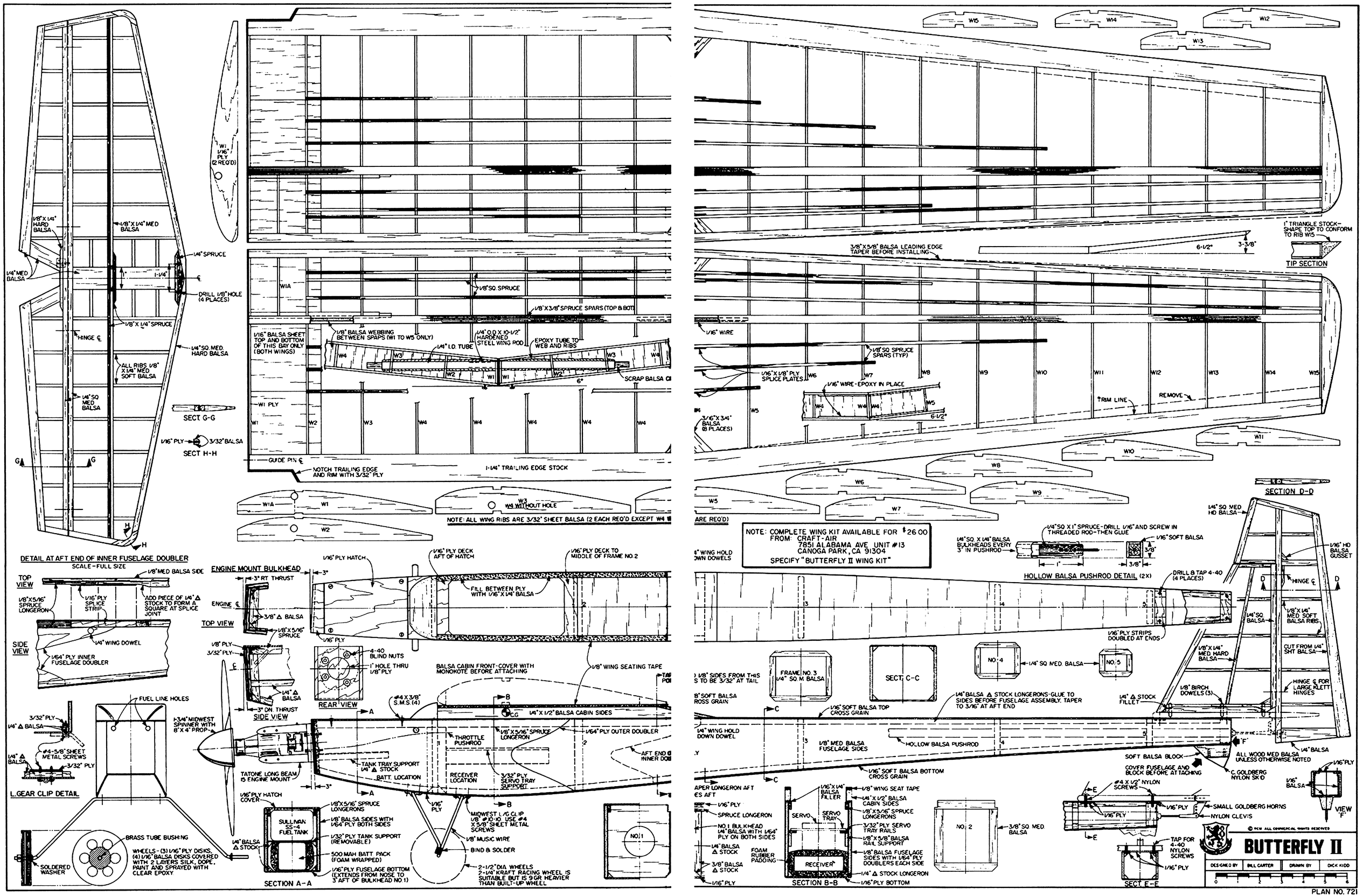
DETAIL AT AFT END OF INNER FUSELAGE DOUBLER
SCALE - FULL SIZE
1/8" X 1/4" HARD BALSA
1/8" X 1/4" MED BALSA
1/4" SPRUCE
1/4" MED BALSA
1-1/4"
DRILL 1/8" HOLE (4 PLACES)
1/8" X 1/4" SPRUCE
HINGE ℄
1/4" SQ. MED. HARD BALSA
ALL RIBS 1/8" X 1/4" MED SOFT BALSA
1/4" SQ MED BALSA
W1 1/16" PLY (2 REQ'D)
SECT G-G
1/16" PLY
3/32" BALSA
SECT H-H
W1A
1/8" SQ. SPRUCE
1/8" X 3/8" SPRUCE SPARS (TOP & BOT)
1/16" BALSA SHEET TOP AND BOTTOM OF THIS BAY ONLY (BOTH WINGS)
1/8" BALSA WEBBING BETWEEN SPARS (W1 TO W5 ONLY)
1/4" I.D. TUBE
1/4" O.D. X 10-1/2" HARDENED STEEL WING ROD
EPOXY TUBE TO WEB AND RIBS
SCRAP BALSA
W1 PLY
GUIDE PIN ℄
NOTCH TRAILING EDGE AND RIM WITH 3/32" PLY
1-1/4" TRAILING EDGE STOCK
W1A
W1
W3 W4 WITHOUT HOLE
W2
NOTE: ALL WING RIBS ARE 3/32" SHEET BALSA (2 EACH REQ'D EXCEPT W4
W15
W14
W12
W13
3/8" X 3/8" BALSA LEADING EDGE TAPER BEFORE INSTALLING
6-1/2"
3-3/8"
1" TRIANGLE STOCK-SHAPE TOP TO CONFORM TO RIB W15
TIP SECTION
1/16" WIRE
1/8" SQ. SPRUCE SPARS (TYP)
1/16" X 1/8" PLY SPLICE PLATES
1/16" WIRE-EPOXY IN PLACE
3/16" X 3/4" BALSA (8 PLACES)
TRIM LINE
REMOVE
W11
W10
W8
W6
W9
W5
W7
ARE REQ'D)
NOTE: COMPLETE WING KIT AVAILABLE FOR $26.00
FROM: CRAFT-AIR
7851 ALABAMA AVE UNIT #13
CANOGA PARK, CA 91304
SPECIFY "BUTTERFLY II WING KIT"
1/4" SQ. X 1/4" BALSA BULKHEADS EVERY 3" IN PUSHROD
1/4" SQ. X 1" SPRUCE-DRILL 1/16" AND SCREW IN THREADED ROD-THEN GLUE
1/16" SOFT BALSA
HOLLOW BALSA PUSHROD DETAIL (2X)
SECTION D-D
1/4" SQ. MED HD BALSA
1/16" HD BALSA GUSSET
HINGE ℄
1/4" SQ. BALSA
1/8" X 1/4" MED. SOFT BALSA RIBS
CUT FROM 1/4" SHT BALSA
1/8" X 1/4" MED. HARD BALSA
HINGE ℄ FOR LARGE KLETT HINGES
1/8" BIRCH DOWELS (3)
1/4" △ STOCK FILLET
1/16" PLY STRIPS DOUBLED AT ENDS
DRILL & TAP 4-40 (4 PLACES)
TOP VIEW
1/8" X 5/16" SPRUCE LONGERON
1/16" PLY SPLICE STRIP
ADD PIECE OF 1/4" △ STOCK TO FORM A SQUARE AT SPLICE JOINT
SIDE VIEW
1/4" WING DOWEL
1/64" PLY INNER FUSELAGE DOUBLER
1/8" MED BALSA SIDE
ENGINE MOUNT BULKHEAD
3" RT THRUST
3"
ENGINE ℄
TOP VIEW
3/8" △ BALSA
1/8" X 5/16" SPRUCE
1/16" PLY HATCH
1/16" PLY DECK AFT OF HATCH
1/16" PLY DECK TO MIDDLE OF FRAME NO. 2
FILL BETWEEN PLY WITH 1/16" X 1/4" BALSA
1/16" PLY
1/8" PLY
3/32" PLY
1/4" △ BALSA
3" DN. THRUST
SIDE VIEW
4-40 BLIND NUTS
1" HOLE THRU 1/8" PLY
REAR VIEW
BALSA CABIN FRONT-COVER WITH MONOKOTE BEFORE ATTACHING
1/8" WING SEATING TAPE
#4 X 3/8" S.M.S. (4)
1/4" X 1/2" BALSA CABIN SIDES
CG
FUEL LINE HOLES
3/32" PLY
1/4" △ BALSA
#4-5/8" SHEET METAL SCREWS
3/32" PLY
L.GEAR CLIP DETAIL
1-3/4" MIDWEST SPINNER WITH 8" X 4" PROP
THROTTLE PUSHROD
1/8" X 5/16" SPRUCE LONGERON
1/64" PLY OUTER DOUBLER
TANK TRAY SUPPORT 1/4" △ STOCK
BATT. LOCATION
TATONE LONG BEAM 15 ENGINE MOUNT
RECEIVER LOCATION
3/32" PLY SERVO TRAY SUPPORT
AFT END OF INNER DOUBLER
1/16" PLY HATCH COVER
SULLIVAN SS-4 FUEL TANK
1/8" X 5/16" SPRUCE LONGERONS
1/8" BALSA SIDES WITH 1/64" PLY BOTH SIDES
1/32" PLY TANK SUPPORT (REMOVABLE)
500 MAH BATT PACK (FOAM WRAPPED)
1/16" PLY FUSELAGE BOTTOM (EXTENDS FROM NOSE TO 3" AFT OF BULKHEAD NO. 1)
1/4" BALSA △ STOCK
SECTION A-A
1/16" PLY
MIDWEST L/G CLIP 1/8 #10-10 USE #4 X 5/8" SHEET METAL SCREWS
1/8" MUSIC WIRE
BIND & SOLDER
2-1/2" DIA. WHEELS
2-1/4" KRAFT RACING WHEEL IS SUITABLE BUT IS 3 GR HEAVIER THAN BUILT-UP WHEEL
NO. 1
BRASS TUBE BUSHING
SOLDERED WASHER
WHEELS - (3) 1/16" PLY DISKS, (4) 1/16" BALSA DISKS COVERED WITH 2 LAYERS SILK, DOPE, PAINT AND SPRAYED WITH CLEAR EPOXY
FRAME NO. 3 1/4" SQ. M. BALSA
SECT. C-C
NO. 4
1/4" SQ. MED. BALSA
NO. 5
1/4" BALSA △ STOCK LONGERONS-GLUE TO SIDES BEFORE FUSELAGE ASSEMBLY. TAPER TO 3/16" AT AFT END
1/16" SOFT BALSA TOP CROSS GRAIN
1/8" MED BALSA FUSELAGE SIDES
HOLLOW BALSA PUSHROD
1/16" SOFT BALSA BOTTOM CROSS GRAIN
SOFT BALSA BLOCK
COVER FUSELAGE AND BLOCK BEFORE ATTACHING
ALL WOOD MED BALSA UNLESS OTHERWISE NOTED
C. GOLDBERG NYLON SKID
1/4" BALSA
1/16" PLY
1/16" BALSA
VIEW 'F'
1/16" X 1/4" BALSA FILLER
1/8" WING SEAT TAPE
1/4" X 1/2" BALSA CABIN SIDES
1/8" X 5/16" SPRUCE LONGERONS
3/32" PLY SERVO TRAY RAILS
1/8" X 5/8" BALSA RAIL SUPPORT
1/8" BALSA FUSELAGE SIDES WITH 1/64" PLY DOUBLERS EACH SIDE
1/4" △ STOCK LONGERON
1/16" PLY BOTTOM
SERVO
SERVO TRAY
RECEIVER
FOAM RUBBER PADDING
SECTION B-B
NO. 2
3/8" SQ. MED. BALSA
#4 X 1/2" NYLON SCREWS
1/16" PLY
SMALL GOLDBERG HORNS
NYLON CLEVIS
TAP FOR 4-40 NYLON SCREWS
SECT. E-E
1/16" PLY
SPRUCE LONGERON
NO. 1 BULKHEAD 1/4" BALSA WITH 1/64" PLY ON BOTH SIDES
1/4" BALSA △ STOCK
3/8" BALSA △ STOCK
1/16" PLY
1/4" WING HOLD DOWN DOWEL
1/8" SOFT BALSA CROSS GRAIN
1/8" SIDES FROM THIS TO BE 3/32" AT TAIL
APER LONGERON AFT ES AFT
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BUTTERFLY II
DESIGNED BY BILL CARTER
DRAWN BY DICK KIDD
0 1 2 3 4 5 6
PLAN NO. 721