BLADE SPAR— BENSEN LAMINATED WOOD – PART NO. 8-103-003

UPPER SURFACE COVER — BENSEN LAMINATED UPPER SKIN — PART NO. 8-103-005

LOWER SURFACE COVER — BENSEN LAMINATED LOWER SKIN — PART NO. 8-103-006

BOT. SURFACE

BOTTOM SURFACE

9/64 DRILL & COUNTERSINK FOR #6 X 1/2 FLAT HEAD WOOD SCREWS — 57 HOLES

3/16 ATTACHMENT HOLE USED TO LOCATE NOSE WEIGHT

TRIM TIP AFTER ASSEMBLY
SAVE SCRAP FOR GLUE TENSILE TEST

DO NOT COUNTERSINK THIS HOLE

3 TYPICAL

1 1/2 STAGGER, TYPICAL

EDGE DISTANCE- 1/4 MIN.

BLADE MAIN SPAR - BENSEN STEEL-PART NO. 8-103-001

LEADING EDGE STRIP
PART NO. 8-103-004

BLADE PLAN VIEW

SEE NOTE 2

STA 0 · STA 2 · STA 5 · STA 15 · STA 96 · STA 107 · STA 113 · STA 120

NOTE: ALL BLADE STATIONS ARE MEASURED DISTANCES FROM AXIS OF ROTATION IN INCHES.

RAW MATERIALS KIT NOT AVAILABLE FROM BENSEN AIRCRAFT CORPORATION.
SPECIAL MATERIALS LISTING AVAILABLE ON REQUEST FROM B.A.C.

BLADE TRAILING EDGE VIEW

NOTE 1: ALL WOOD-TO-WOOD FAYING SURFACES ARE TO BE JOINED WITH "WELDWOOD" GLUE. APPLY PROPER CLAMPS AND ALLOW OVERNIGHT SETTING BETWEEN BONDING OPERATIONS.

NOTE 2: SEE INSTRUCTION BOOK FOR PROCEDURE OF MOUNTING BLADES TO HUB.

NOTE 3: ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE NOTED.

NOTE 4: FOLLOW THE BUILDING INSTRUCTIONS BOOK CAREFULLY IN CONJUNCTION WITH THIS DRAWING.

DIAMETER IS EQUAL TO THICKNESS AT ALL CHORD STATIONS

TRIM TAB
PART NO 8-103-010

AXIS OF ROTATION

BLADE LOWER SURFACE

3/8 DRILL ON ASSEMBLY OF BLADES TO HUB – 2 HOLES, SEE NOTE 2

L.E. RADIUS .11

SAND SKINS AS SHOWN
DO NOT SAND FURTHER
WOOD SPAR
STEEL SPAR
LAMINATED SKINS

TO MAX THICKNESS

HUB

SECTION "AA"

3/16" X 1 1/2" HARDWOOD DOWELS ON 12" CENTERS, GLUED
PART NO. 8-103-012

SECTION "DD"

NOTE: DO NOT SCALE AIRFOIL SECTION DRAWINGS. USE DIMENSIONS PROVIDED IN CONJUNCTION WITH AIRFOIL TEMPLATE PROVIDED TO DETERMINE AIRFOIL SHAPE.

UPPER RETENTION PLATE- BENSEN STEEL
PART NO-8-103-002

CHORDWISE BALANCE WEIGHT, SEE INSTRUCTION BOOK FOR DETAILS.

DRILL & REAM ON ASSEMBLY. - 6 HOLES
BA-4-14 BOLT
BA-960-416 WASHER
BA-363-428 NUT

SECTION "BB"

UPPER RETENTION FILLER PAD, BENSEN LAMINATED WOOD
PART NO. 8-103-007

SECTION "EE" - FULL SCALE

DRILL & REAM ON ASSEMBLY
USE BA 23-19 CLEVIS BOLT
& BA 364-1032 NUT

NOSE WEIGHT
PART NO. 8-103-011

1/8 WELD ROD, WELDED IN PLACE. SEE SEPARATE INSTRUCTIONS BEFORE POURING LEAD.

SECTION "CC"

ROOT FILLER BLOCK, BENSEN LAMINATED WOOD
PART NO. 8-103-008

AIRFOIL TEMPLATE
CUT FROM SHEET METAL

-10 TRIM TAB

TIP FILLER BLOCK, BENSEN LAMINATED WOOD
PART NO. 8-103-009

THIS DRAWING SUPERSEDES ROTOR BLADE DRAWING 7-103-100

NEXT ASSEM.	PART NO.	PART NAME	STOCK SIZE	MATERIAL	MAT'L SPEC.
	TOLERANCE: FRACTIONS- 1/32 DECIMALS NOTED			CALC.WT.	ACT. WT.
		ROTOR BLADE BENSEN MODEL B-8		14 LB.	

LAYOUT	DRAWN	CHECKED	ENG. APP.	CUST. APP.
	Eric E. Smart		J.F.B.	
	4/21/60		8-1-60	

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SCALE 1/4 AND NOTED

BENSEN AIRCRAFT CORP.

8-103-100

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