AERONCA

CONTROL LINE FLYING MECHANISM

CEMENT SPREADER BASE SECURELY TO THIS RIB

1/16" WIRE BRACE ANCHORED TO RIB B OF LEFT WING PANEL

ELEVATORS ARE SHAPED FROM 3/16" MEDIUM SHEET BALSA

CUT IN FOR FREE MOVEMENT

1/2"

RIB A

TO CONTROL PLATE

4-1/2"

LOOP IN CABLE

FLATTEN OUT END OF ELEVATOR ROD AND WRAP AROUND WIRE TO ACT AS HINGE

BEND FROM 1/32" SHEET ALUMINIUM

SOLDER

1/32" DIA. BRONZE CONTROL CABLE

CEMENT END INTO ROD

ELEVATOR CONTROL ROD IS 1/8" ALUMINIUM CUT TO FIT

CONTROL LINES ARE .012 PIANO WIRE

RIB 4

1/32"SHEET ALUMINIUM CEMENTED TO RIB 4

PINS TO LIMIT MOVEMENT OF CONTROL PLATE

WINDOW FUSELAGE LONGERON

FITS INTO ARM

RUBBER BAND TO PULL CONTROL PLATE TO NEUTRAL POSITION WHEN LINES SLAKEN

INSTALL UNIT SO CABLES ARE STATIONED AS INDICATED BY CENTRE LINE ON FUSELAGE SIDE VIEW

3/16" HARD SHEET

WINDOW UPRIGHT

INSTALLED CONTROL MECHANISM

2-1/8"

FOR RUBBER BANDS

PIVOT POINT FOR 6BA BOLT

1/2"

1-1/4"

FOR CONTROL CABLES

5/8"

BEND ON DOTTED LINES

HOLE FOR ELEVATOR CONTROL ROD HOOK

CONTROL PLATE DIMENSIONS

1"

SHAPE HANDLE FROM PINE TO FIT HAND

5"

3/8"

SIDE VIEW

DISTANCE BETWEEN HANDLE AND FUSELAGE CENTRE LINE IS 52' - 6" - 16 LAPS EQUAL 1 MILE

ELEVATOR MOVEMENT DETAIL

FOR AVERAGE FLIGHT MANEUVERS ELEVATORS MOVE UPWARD 1/8" AND DOWNWARD 3/32" - STUNT FLYING REQUIRES 3/16" UPWARD AND 1/8" DOWNWARD - ELEVATORS ARE STRAIGHT WHEN CONTROL PLATE IS NEUTRAL

1/16" STEEL WIRE HOOK FOR WING RUBBER BANDS

WITH OHLSSON '23'

1/16" WIRE

1/8" SQ. HARD

AIR TIMER

3/16" SHEET

CENTRE FOR CONTROL CABLES WHEN USED AS A 'GUIDE LINER'

1/16" SHEET BALSA

COIL

LONGERONS ARE 3/16" SQ. HARD BALSA

LEAVE OPEN FOR AIR CIRCULATION

MAIN BULKHEAD

PEN-LITE BATTERY CASE MOUNTED ON HINGED TRAP DOOR - SLIDE CASE TO BALANCE MODEL - HINGE IS OF CLOTH

PIVOT POINT FOR LANDING GEAR

2-1/4" M&M WHEEL

CROSS SECTION

X - X

CARVE DUMMY MOTOR FROM SOFT BLOCK

C L

NOSE IS CARVED FROM SOLLID SOFT BALSA AND HOLLOWED OUT - 1/8" WALL

1/16" STEEL WIRE FOR WING RUBBER BANDS

LEADING EDGE 3/16" SQ.

TRAILING EDGE FROM 1/8" SHEET

TAB FOR GUIDE LINE FLYING

1/8" SHEET

SOLID

1/16" WIRE FORM

POSITION OF STABILISER CEMENT SECURELY IN PLACE

RUDDER RIBS

1/8" SHEET

STABILIZER RIBS

ALL RIBS, EXCEPT Ⓐ, FROM 1/16" SHEET

ALL RIBS FROM 1/16" SHEET

CUT LEADING EDGE FROM 3/16" SHEET BALSA - SPARS AND TRAILING EDGES CUT FROM 1/8" SHEET

MAIN WING RIB - 16 REQD

HALF RIB - 16 REQD

TIP WING RIB - 2 REQD

3/16" SQ. LEADING EDGE

1/8" SHEET SPARS

ELEVATORS FOR 'GUIDE LINE' FLYING

1/8" X 3/8" TRAILING EDGE

A - A'

HOLES FOR WIRING

1/8" BIRCH PLY BULKHEAD

1/16" WIRE HOOKS CEMENTED TO UPRIGHT INSIDE FOR RUBBER BANDS WHICH HOLD FRONT OF LANDING GEAR IN PLACE- SLIT BOTTOM OF FUSELAGE TO MAKE WAY FOR RUBBER BANDS

SOLDER

4-1/2" DIHEDRAL AT EACH TIP

1/4" X 3/4" X 6-1/2" MOTOR MOUNT BEARER

1/4" X 3/8" X 2-7/8" SPRUCE

PIN PEG - 3/32" DIA.

3/4" 6B.A. BOLT

MOTOR MOUNT DETAIL

1/16" WIRE CEMENTED TO FRONT AND REAR SPARS TO HOLD STRUTS IN PLACE

3/32" O.O. ALUMINIUM TUBING CEMENTED INTO STRUTS

WING STRUT ATTACHMENT DETAIL

3/32" O.D. TUBING CEMENTED TO LONGERON

BOTTOM FUSELAGE LONGERON

STREAMLINED

STRUTS ARE SHAPED FROM 3/8" X 3/16" HARD STRIPS

BEND FROM 1/16" STEEL WIRE

2-1/2"

3/32" O.D. BRASS TUBING ANCHORED TO CROSS BRACE ACTS AS HOUSING FOR REAR OF GEAR

SOLDER

4-1/4"

FILL IN WITH 1/8" FLEXIBLE SHEET BALSA AND STREAMLINE

1-1/2"

3-5/16"

LANDING GEAR DETAIL

ALL RIBS ARE CUT FROM 1/16" STIFF SHEET

1/16" SHEET

LEADING EDGE FROM 1/4" SHEET

TIP RIB

1/8" X 3/4" SPARS

1/8" X 5/16" REAR SPAR

THIN CELLULOID

CUT IN TRAILING EDGE FOR RIB

POSITION OF MAIN WING STRUTS

RIB 'X'

3/16" X 5/8" TRAILING EDGE

3/16" SHEET TIP

RIB 'A' OF LEFT WING PANEL - LOCATION OF CONTROL LINE SPACER

RIB 'B' IN LEFT WING PANEL IS BASE FOR SPREADER BRACES

1/8" HARD SHEET DIHEDRAL REINFORCEMENTS

4½"