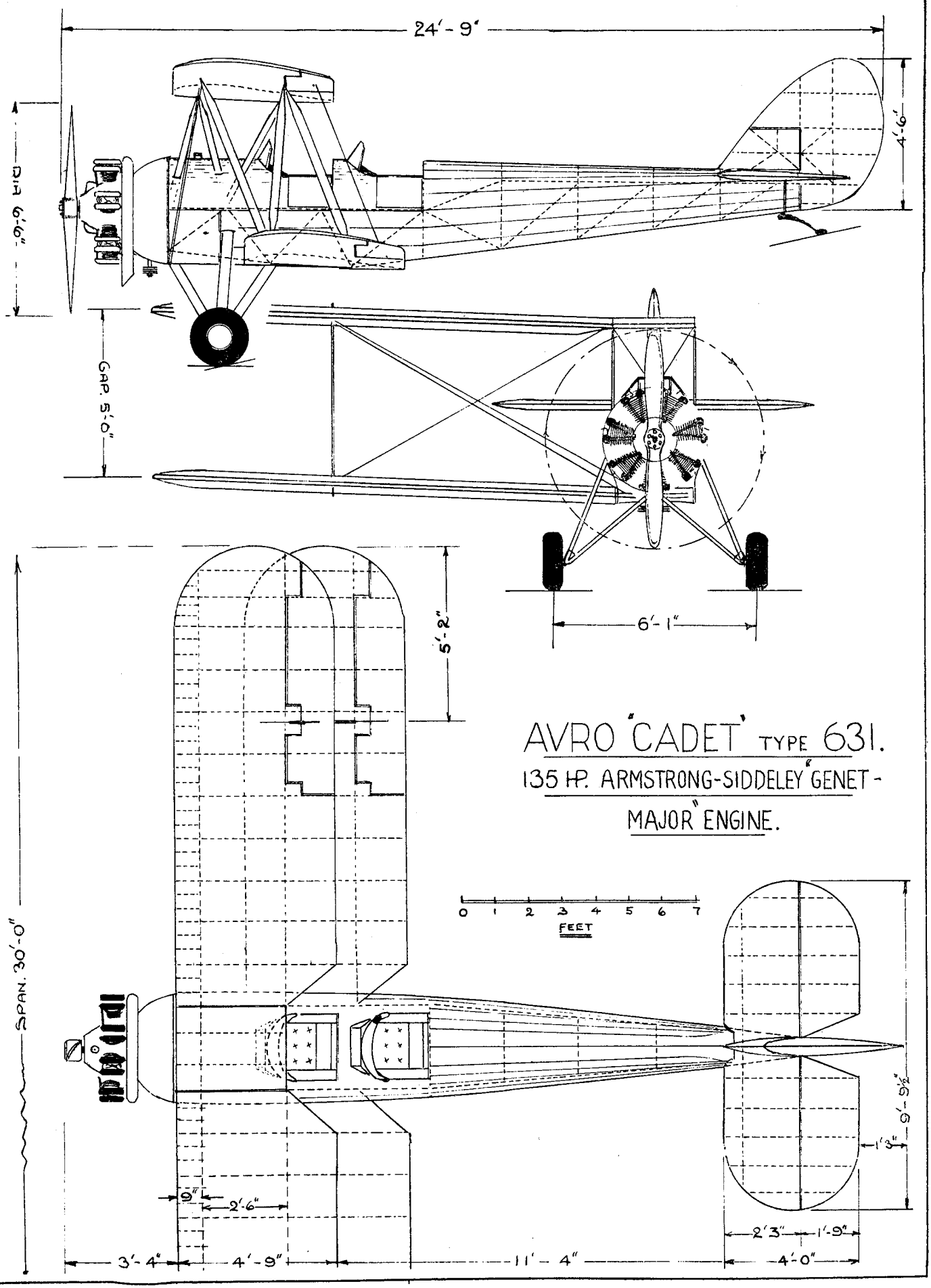


AVRO "CADET" TYPE 631.

135 HP. ARMSTRONG-SIDDELEY "GENET-MAJOR" ENGINE.

THE AVRO CADET—TYPE 631

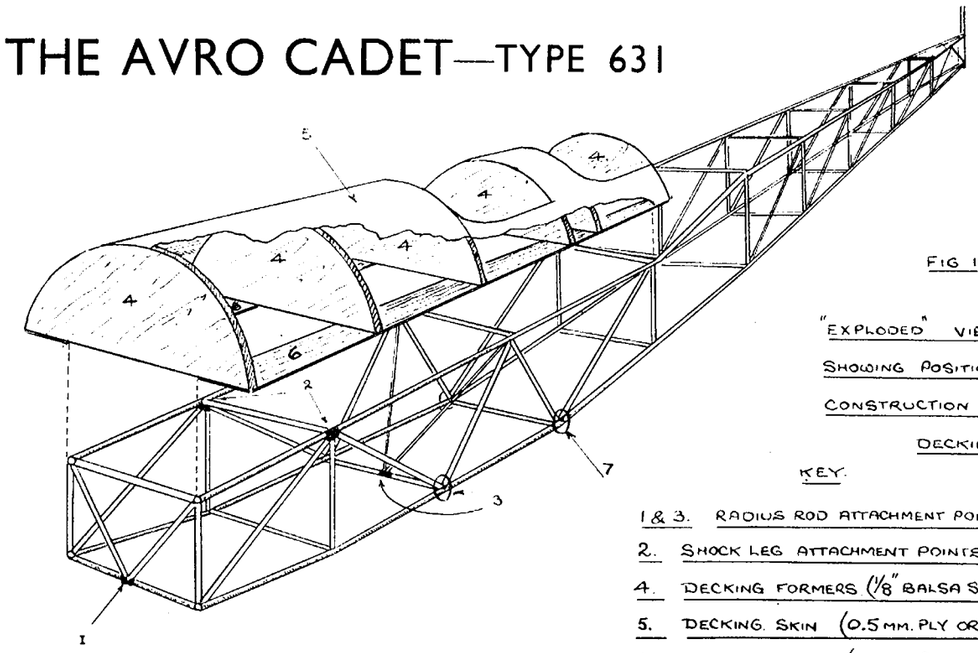


FIG 1.

"EXPLODED" VIEW OF FUSELAGE SHOWING POSITIONING AND CONSTRUCTION OF COCKPIT DECKING.

KEY.

1 & 3. RADIUS ROD ATTACHMENT POINTS
2. SHOCK LEG ATTACHMENT POINTS
4. DECKING FORMERS (1/8" BALSA SHEET)
5. DECKING SKIN (0.5 MM. PLY OR 1/32" BALSA SHEET)
6. COCKPIT LEDGES (0.5 MM. PLY OR 1/32" BALSA SHEET)
7. WING ATTACHMENT POINTS

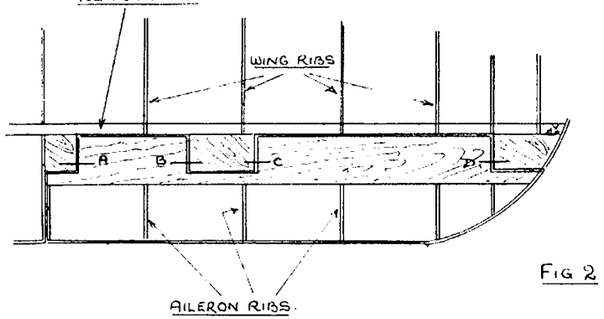
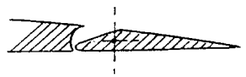


FIG 2

A, B, C & D:- HINGE POSITIONS ON FRISE TYPE AILERONS



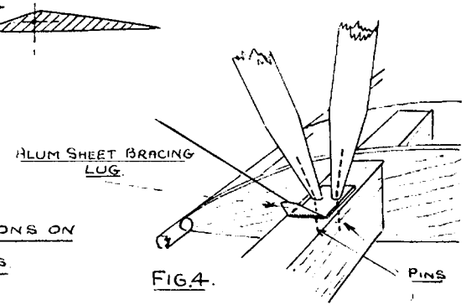


FIG 4.

INTERPLANE STRUT & BRACING WIRE LUG ATTACHMENTS.

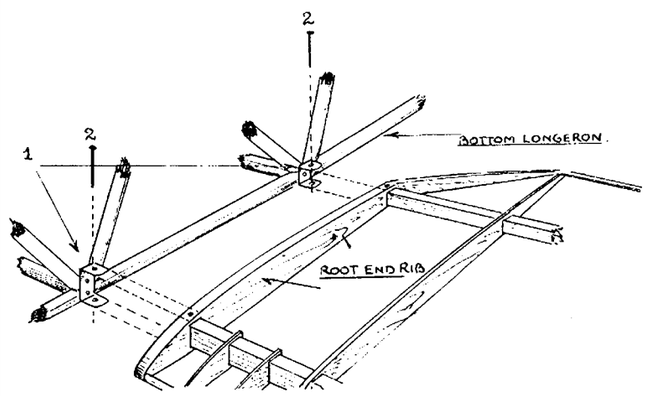


FIG. 3

METHOD OF ATTACHING WINGS TO FUSELAGE OR TOP CENTRE SECTION.

1.1.:- 22 OR 26 S.W.G. ALUMINIUM "U" PLATES
2.2.:- ATTACHMENT PINS.

E.J.R. 1940

FRONT SPAR 3/16" x 7/8"

REAR SPAR 1/8" x 1/8"

TRAILING EDGE. 1/16" x 1/32"

LEADING EDGE 1/8" DIA. DOWEL.

FIG. 5.

TYPICAL MAINPLANE RIB.

SCALE: FULL SIZE

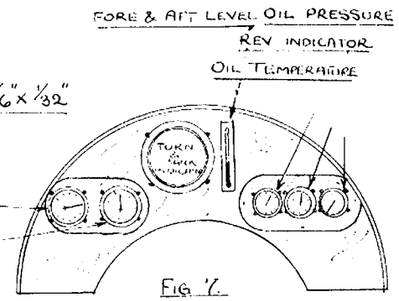


FIG. 7.

INSTRUMENT BOARD.

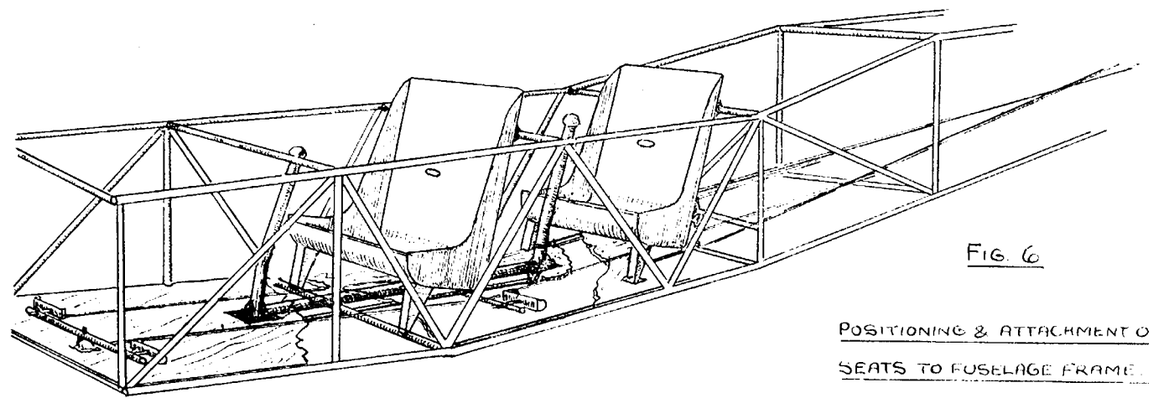


FIG. 6

POSITIONING & ATTACHMENT OF SEATS TO FUSELAGE FRAME.

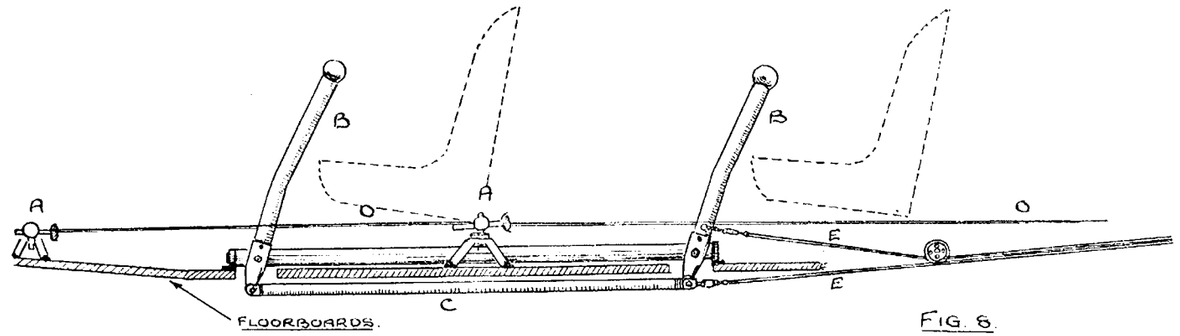


FIG. 8.

ARRANGEMENT OF COCKPIT CONTROLS.

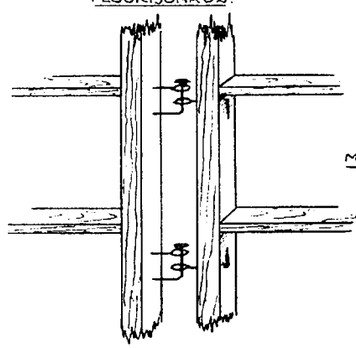


FIG. 9

METHOD OF MAKING RUDDER & ELEVATOR HINGES FROM 3 DRESS-MAKER'S PINS

A.A. RUDDER BARS.
B.B. CONTROL COLUMNS.
C. CONNECTING ROD.
D. RUDDER CONTROL CABLES.
E.E ELEVATOR CONTROL CABLES.