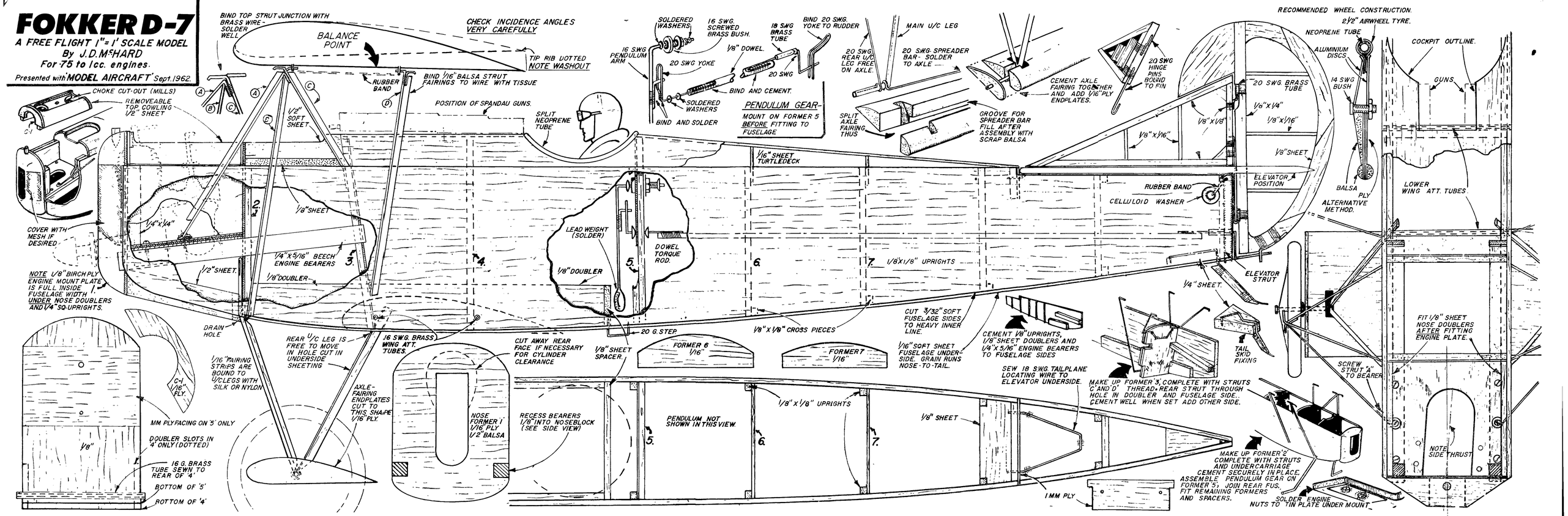
FOKKER D-7

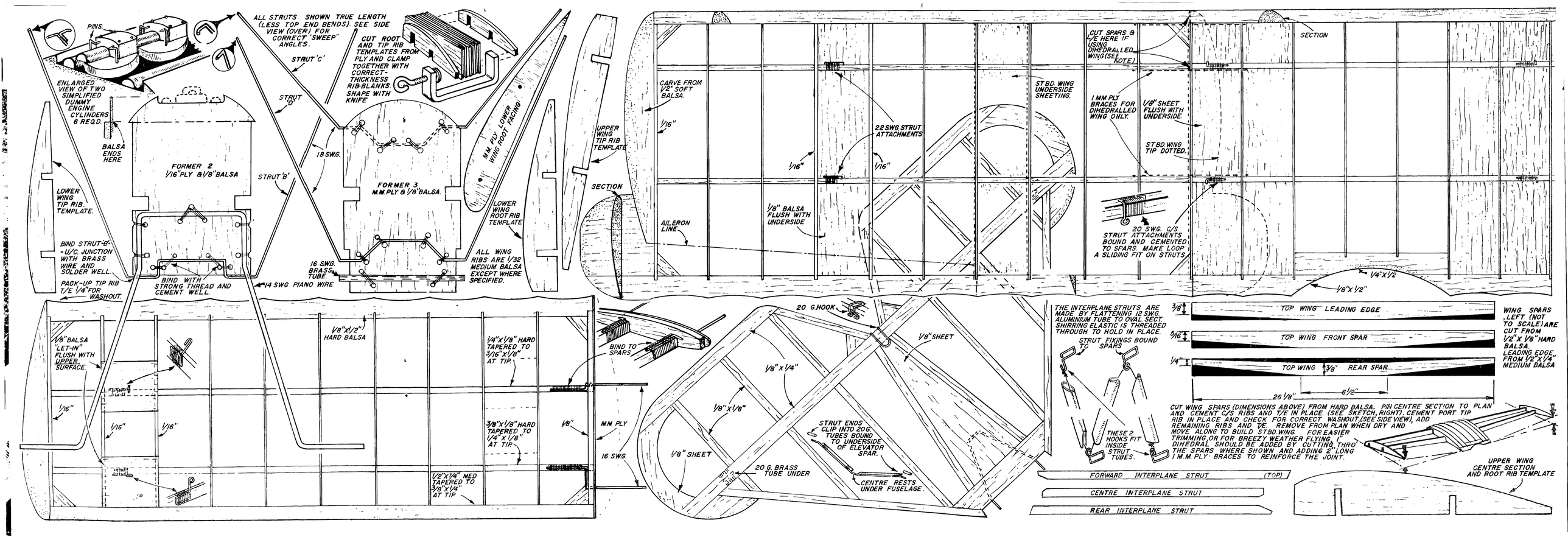
A FREE FLIGHT 1" = 1' SCALE MODEL

By J.D. McHARD

For .75 to 1cc. engines.

Presented with MODEL AIRCRAFT Sept. 1962.




PINS.
ENLARGED VIEW OF TWO SIMPLIFIED DUMMY ENGINE CYLINDERS 6 REQ'D.
BALSA ENDS HERE
ALL STRUTS SHOWN TRUE LENGTH (LESS TOP END BENDS). SEE SIDE VIEW (OVER) FOR CORRECT "SWEEP" ANGLES.
STRUT 'C'
STRUT 'D'
STRUT 'B'
CUT ROOT AND TIP RIB TEMPLATES FROM PLY AND CLAMP TOGETHER WITH CORRECT-THICKNESS RIB-BLANKS. SHAPE WITH KNIFE
M.M. PLY LOWER WING ROOT FACING
FORMER 2 1/16" PLY & 1/8" BALSA
FORMER 3 M.M. PLY & 1/8" BALSA.
18 SWG.
LOWER WING TIP RIB TEMPLATE.
BIND STRUT-B-U/C. JUNCTION WITH BRASS WIRE AND SOLDER WELL.
BIND WITH STRONG THREAD AND CEMENT WELL.
PACK-UP TIP RIB T/E 1/4" FOR WASHOUT.
16 SWG. BRASS TUBE.
14 SWG PIANO WIRE
LOWER WING ROOT RIB TEMPLATE
ALL WING RIBS ARE 1/32 MEDIUM BALSA EXCEPT WHERE SPECIFIED.
UPPER WING TIP RIB TEMPLATE
SECTION
CARVE FROM 1/2" SOFT BALSA.
1/16"
22 SWG. STRUT ATTACHMENTS
1/8" BALSA FLUSH WITH UNDERSIDE
AILERON LINE
ST.BD. WING UNDERSIDE SHEETING.
CUT SPARS & T/E HERE IF USING DIHEDRALLED WING (SEE NOTE).
1 MM PLY BRACES FOR DIHEDRALLED WING ONLY.
1/8" SHEET FLUSH WITH UNDERSIDE
ST.BD. WING TIP DOTTED.
20 SWG. C/S STRUT ATTACHMENTS BOUND AND CEMENTED TO SPARS. MAKE LOOP A SLIDING FIT ON STRUTS.
SECTION
1/4" x 1/2"
1/8" x 1/2"
1/8" BALSA "LET-IN" FLUSH WITH UPPER SURFACE.
1/8" x 1/2" HARD BALSA
1/4" x 1/8" HARD TAPERED TO 3/16" x 1/8" AT TIP.
3/8" x 1/8" HARD TAPERED TO 1/4" x 1/8" AT TIP.
1/2" x 1/4" MED TAPERED TO 3/8" x 1/4" AT TIP
1/8"
M.M. PLY
16 SWG.
BIND TO SPARS
20 G. HOOK
1/8" SHEET
1/8" x 1/4"
1/8" x 1/8"
STRUT ENDS CLIP INTO 20 G. TUBES BOUND TO UNDERSIDE OF ELEVATOR SPAR.
20 G. BRASS TUBE UNDER
CENTRE RESTS UNDER FUSELAGE.
THE INTERPLANE STRUTS ARE MADE BY FLATTENING 12 SWG. ALUMINIUM TUBE TO OVAL SECT. SHIRRING ELASTIC IS THREADED THROUGH TO HOLD IN PLACE.
STRUT FIXINGS BOUND TO SPARS
THESE 2 HOOKS FIT INSIDE STRUT TUBES.
3/8"
TOP WING LEADING EDGE
5/16"
TOP WING FRONT SPAR
1/4"
TOP WING 3/8" REAR SPAR
26 1/8"
6 1/2"
WING SPARS, LEFT (NOT TO SCALE) ARE CUT FROM 1/2" x 1/8" HARD BALSA. LEADING EDGE FROM 1/2" x 1/4" MEDIUM BALSA
CUT WING SPARS (DIMENSIONS ABOVE) FROM HARD BALSA. PIN CENTRE SECTION TO PLAN AND CEMENT C/S RIBS AND T/E IN PLACE. (SEE SKETCH, RIGHT). CEMENT PORT TIP RIB IN PLACE AND CHECK FOR CORRECT WASHOUT, (SEE SIDE VIEW). ADD REMAINING RIBS AND T/E. REMOVE FROM PLAN WHEN DRY AND MOVE ALONG TO BUILD ST.BD. WING. FOR EASIER TRIMMING OR FOR BREEZY WEATHER FLYING, DIHEDRAL SHOULD BE ADDED BY CUTTING THRO' THE SPARS WHERE SHOWN AND ADDING 2" LONG 1 M.M. PLY BRACES TO REINFORCE THE JOINT.
FORWARD INTERPLANE STRUT (TOP)
CENTRE INTERPLANE STRUT
REAR INTERPLANE STRUT
UPPER WING CENTRE SECTION AND ROOT RIB TEMPLATE