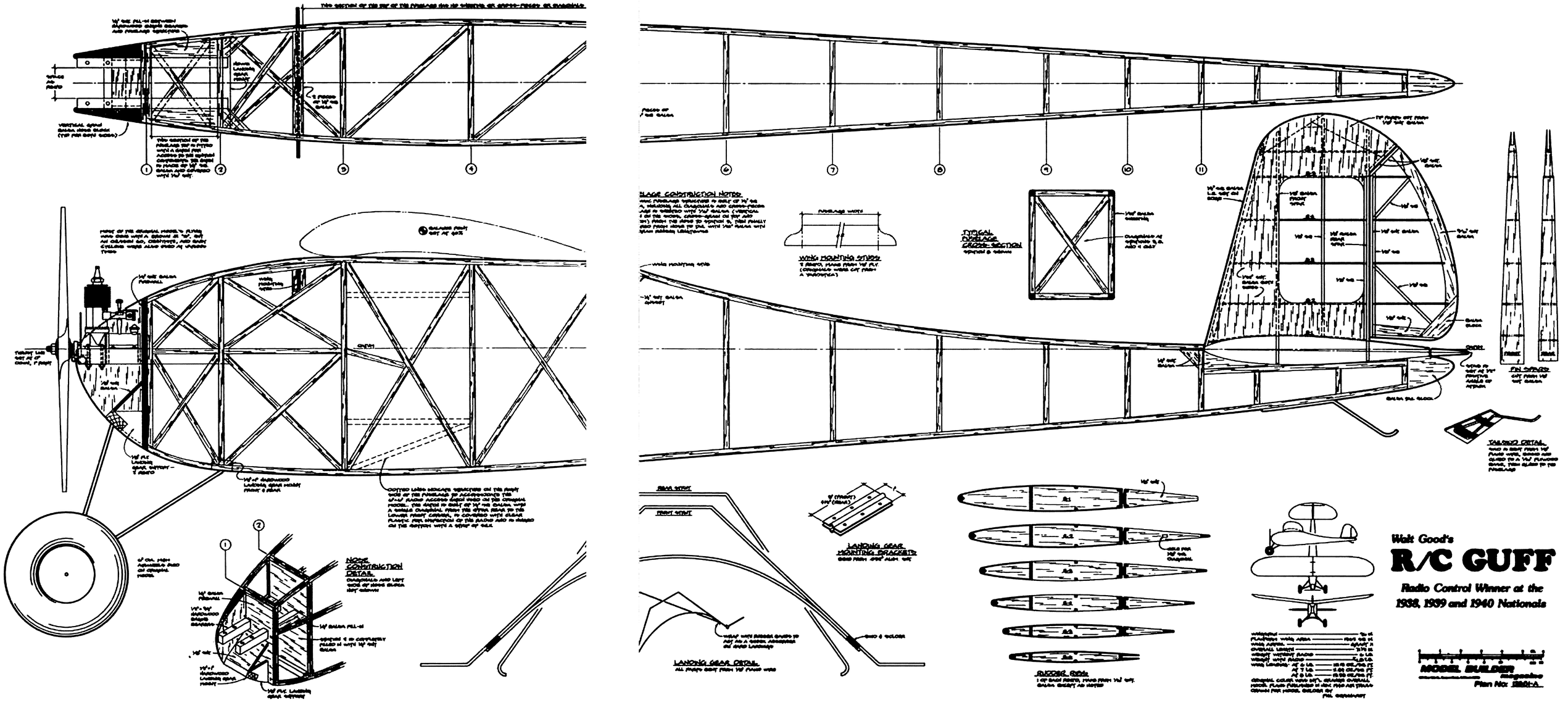
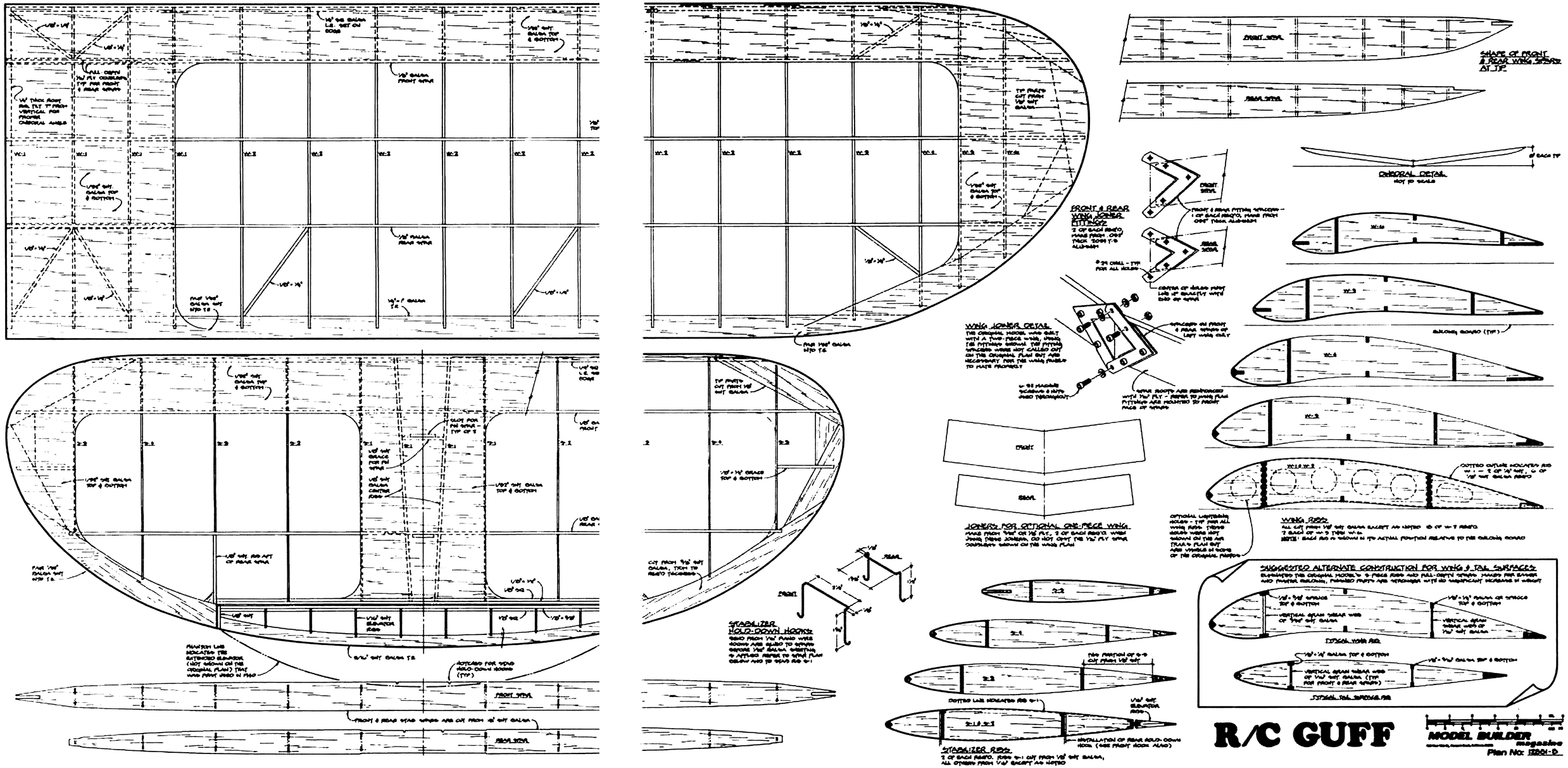

Walt Good's
R/C GUFF
Radio Control Winner at the 1938, 1939 and 1940 Nationals
MODEL BUILDER magazine
Plan No. 1941-A
NOSE CONSTRUCTION DETAIL
LANDING GEAR MOUNTING BRACKETS
LANDING GEAR DETAIL
RUDDER BOX
TYPICAL FUSELAGE CROSS-SECTION
WING MOUNTING STRIPS
FIN OUTLINE
TAILWHEEL DETAIL


FRONT WING
REAR WING
SHAPE OF FRONT & REAR WING SPARS AT TIP.
CHORDAL DETAIL
NOT TO SCALE
FRONT & REAR WING JOINER FITTINGS
2 OF EACH REQ'D, MADE FROM .063" THICK 2024 T-3 ALUMINUM
FRONT & REAR FITTING WINGSTOP - 1 OF EACH REQ'D, MADE FROM .063" THICK ALUMINUM
#31 DRILL - TYP FOR ALL HOLES
CENTER OF BALSA PART LINE OF SYMMETRY WITH END OF WING
WING JOINER DETAIL
THE ORIGINAL MODEL WAS BUILT WITH A TWO-PIECE WING, USING THE FITTINGS SHOWN. THE FITTING WINGSTOPS WERE NOT CALLED OUT ON THE ORIGINAL PLAN BUT ARE NECESSARY FOR THE WING PANELS TO MATE PROPERLY.
WINGSTOPS ON FRONT & REAR SPARS OF LEFT WING ONLY
#4-40 MACHINE SCREWS & NUTS USED THROUGHOUT.
WING SPARS ARE REINFORCED WITH 1/16" PLY - REFER TO WING PLAN. FITTINGS ARE MOUNTED TO FRONT FACE OF SPARS
FRONT
REAR
JOINERS FOR OPTIONAL ONE-PIECE WING
MADE FROM 1/16" OR 1/8" PLY, 2 OF EACH REQ'D. WHEN USING THESE JOINERS, DO NOT CUT THE 1/16" PLY SPAR COUPLERS SHOWN ON THE WING PLAN.
OPTIONAL LIGHTERING HOLES - TYP FOR ALL WING RIBS. THESE HOLES WERE NOT SHOWN ON THE AIR TRAX PLAN SHT AND VARIES IN SIZE OF THE ORIGINAL PARTS.
OUTER OUTLINE INDICATES RIB W-1 - 2 OF 1/8" SHT, 1 OF 1/16" SHT BALSA REQ'D
WING RIBS
ALL CUT FROM 1/16" SHT BALSA EXCEPT AS NOTED. 10 OF W-2 REQ'D. 2 EACH OF W-3 THRU W-6.
NOTE: EACH RIB IS SHOWN IN ITS ACTUAL POSITION RELATIVE TO THE CHORDAL CONTOUR
W-1
W-2
W-3
W-4
W-5
W-6
SUGGESTED ALTERNATE CONSTRUCTION FOR WING & TAIL SURFACES:
ELIMINATES THE ORIGINAL MODEL'S 3-PIECE RIBS AND FULL-DEPTH WING SPARS FOR SAVER AND FASTER BUILDING. FINISHED PARTS ARE STRONGER WITH NO SIGNIFICANT INCREASE IN WEIGHT
1/16" x 1/16" SPRUCE TOP & BOTTOM
VERTICAL GRAIN SHEAR WEB OF 1/16" SHT BALSA
TYPICAL WING RIB
1/16" x 1/8" BALSA OR SPRUCE TOP & BOTTOM
VERTICAL GRAIN SHEAR WEB OF 1/16" SHT BALSA
1/16" x 1/8" BALSA TOP & BOTTOM
VERTICAL GRAIN SHEAR WEB OF 1/16" SHT BALSA (TYP FOR FRONT & REAR WINGS)
TYPICAL TAIL SURFACE RIB
STABILIZER HOLD-DOWN HOOKS:
MADE FROM 1/16" PLAND WIRE. HOOKS ARE ALSO TO SERVE BEFORE 1/16" BALSA SHEETING IS APPLIED. REFER TO WING PLAN BELOW AND TO WING RIB W-1
STABILIZER RIBS:
2 OF EACH REQ'D. RIBS S-1 CUT FROM 1/8" SHT BALSA, ALL OTHERS FROM 1/16" EXCEPT AS NOTED
TWO PORTION OF S-3 CUT FROM 1/8" SHT
OUTER LINE INDICATES RIB S-1
1/16" SHT ELEVATOR RIBS
INSTALLATION OF REAR HOLD-DOWN HOOK (SEE FRONT HOOK ALSO)
FRONT
REAR
1/8"
1/16"
3/4"
1/4"
1/2"
1/8"
1/16" SHT ELEVATOR RIBS
MAINTAIN LINE INDICATES THE INTENDED ELEVATOR (NOT SHOWN ON THE ORIGINAL PLAN) THAT WAS PART USED IN FIND
NOTCHED FOR WING HOLD-DOWN HOOKS (TYP)
FRONT & REAR WING SPARS ARE CUT FROM 1/8" SHT BALSA
FRONT WING
REAR WING
R/C GUFF
MODEL BUILDER magazine
Plan No: 1280-D