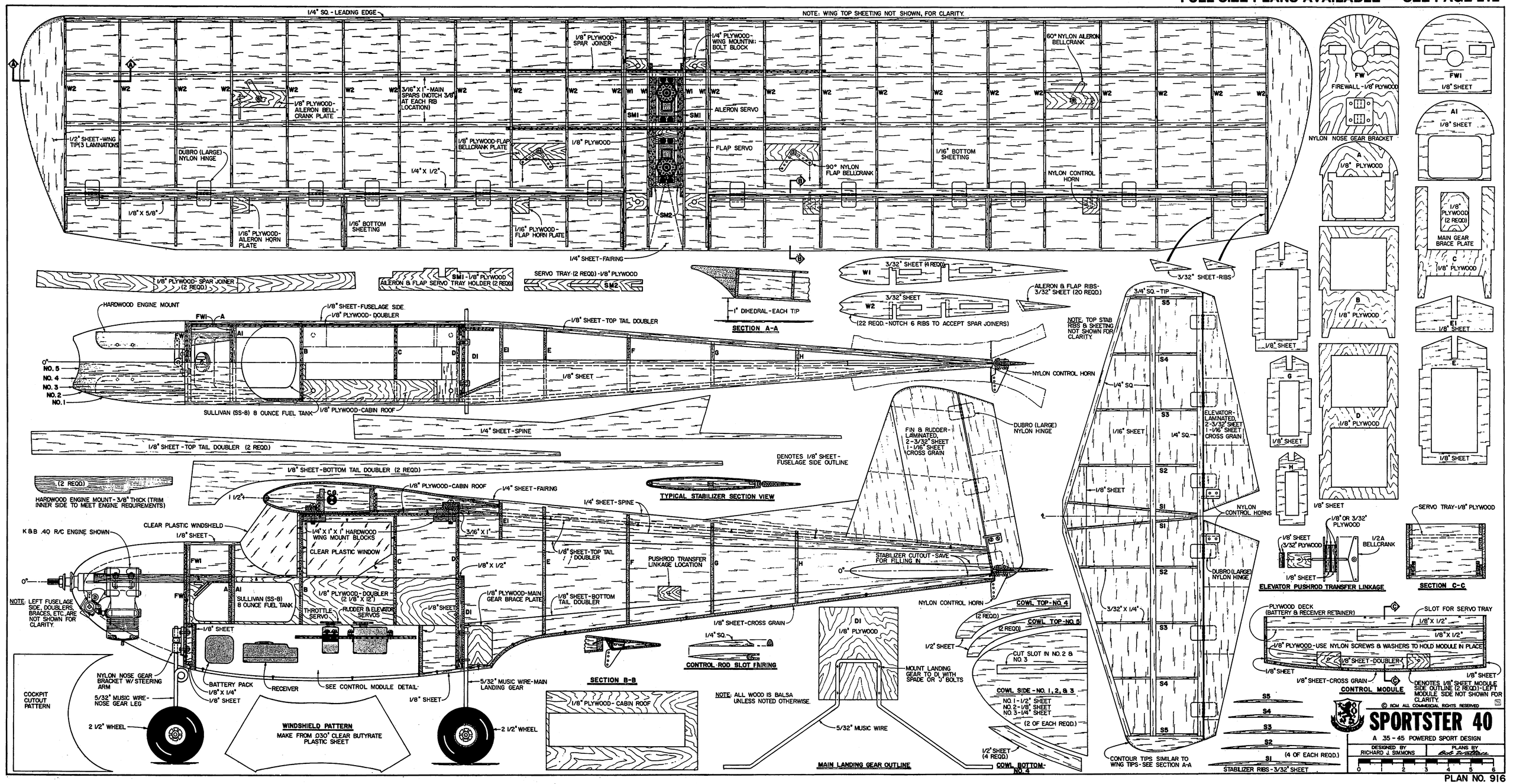
1/4" SQ.-LEADING EDGE
NOTE: WING TOP SHEETING NOT SHOWN, FOR CLARITY.
1/8" PLYWOOD-SPAR JOINER
1/4" PLYWOOD-WING MOUNTING BOLT BLOCK
60° NYLON AILERON BELLCRANK
3/16" X 1"-MAIN SPARS (NOTCH 3/8" AT EACH RIB LOCATION)
1/8" PLYWOOD-AILERON BELLCRANK PLATE
AILERON SERVO
1/2" SHEET-WING TIP (3 LAMINATIONS)
DUBRO (LARGE) NYLON HINGE
1/8" PLYWOOD-FLAP BELLCRANK PLATE
1/8" PLYWOOD
FLAP SERVO
1/16" BOTTOM SHEETING
90° NYLON FLAP BELLCRANK
NYLON CONTROL HORN
1/4" X 1/2"
1/8" X 5/8"
1/16" PLYWOOD-AILERON HORN PLATE
1/16" BOTTOM SHEETING
1/16" PLYWOOD-FLAP HORN PLATE
1/4" SHEET-FAIRING
FIREWALL-1/8" PLYWOOD
NYLON NOSE GEAR BRACKET
1/8" SHEET
MAIN GEAR BRACE PLATE
1/8" PLYWOOD (2 REQD)
1/8" PLYWOOD-SPAR JOINER (2 REQD)
AILERON & FLAP SERVO TRAY HOLDER (2 REQD)
SERVO TRAY (2 REQD)-1/8" PLYWOOD
1" DIHEDRAL-EACH TIP
SECTION A-A
3/32" SHEET (4 REQD)
3/32" SHEET
(22 REQD.-NOTCH 6 RIBS TO ACCEPT SPAR JOINERS)
AILERON & FLAP RIBS-3/32" SHEET (20 REQD.)
3/32" SHEET-RIBS
NOTE: TOP STAB RIBS & SHEETING NOT SHOWN FOR CLARITY.
3/4" SQ.-TIP
HARDWOOD ENGINE MOUNT
1/8" SHEET-FUSELAGE SIDE
1/8" PLYWOOD-DOUBLER
1/8" SHEET-TOP TAIL DOUBLER
NO. 5
NO. 4
NO. 3
NO. 2
NO. 1
1/8" SHEET
NYLON CONTROL HORN
SULLIVAN (SS-8) 8 OUNCE FUEL TANK
1/8" PLYWOOD-CABIN ROOF
1/4" SHEET-SPINE
1/8" SHEET-TOP TAIL DOUBLER (2 REQD)
1/8" SHEET-BOTTOM TAIL DOUBLER (2 REQD)
DENOTES 1/8" SHEET-FUSELAGE SIDE OUTLINE
FIN & RUDDER-LAMINATED, 2-3/32" SHEET 1-1/16" SHEET CROSS GRAIN
DUBRO (LARGE) NYLON HINGE
ELEVATOR-LAMINATED, 2-3/32" SHEET 1-1/16" SHEET CROSS GRAIN
1/16" SHEET
1/4" SQ.
1/8" SHEET
NYLON CONTROL HORNS
(2 REQD)
HARDWOOD ENGINE MOUNT-3/8" THICK (TRIM INNER SIDE TO MEET ENGINE REQUIREMENTS)
1 1/2"
1/8" PLYWOOD-CABIN ROOF
1/4" SHEET-FAIRING
TYPICAL STABILIZER SECTION VIEW
1/4" SHEET-SPINE
CLEAR PLASTIC WINDSHIELD
K&B .40 R/C ENGINE SHOWN
1/4" X 1" X 1" HARDWOOD WING MOUNT BLOCKS
CLEAR PLASTIC WINDOW
3/16" X 1"
1/8" SHEET-TOP TAIL DOUBLER
PUSHROD TRANSFER LINKAGE LOCATION
STABILIZER CUTOUT-SAVE FOR FILLING IN
1/8" X 1/2"
1/8" PLYWOOD-DOUBLER (2 1/8" X 12")
1/8" PLYWOOD-MAIN GEAR BRACE PLATE
1/8" SHEET-BOTTOM TAIL DOUBLER
SULLIVAN (SS-8) 8 OUNCE FUEL TANK
THROTTLE SERVO
RUDDER & ELEVATOR SERVOS
NOTE: LEFT FUSELAGE SIDE, DOUBLERS, BRACES, ETC. ARE NOT SHOWN FOR CLARITY.
1/8" SHEET-CROSS GRAIN
NYLON CONTROL HORN
COWL TOP-NO. 4
COWL TOP-NO. 5
1/2" SHEET
CUT SLOT IN NO. 2 & NO. 3
1/4" SQ.
CONTROL ROD SLOT FAIRING
SECTION B-B
1/8" PLYWOOD
MOUNT LANDING GEAR TO DI WITH SPADE OR "J" BOLTS
COWL SIDE-NO. 1, 2, & 3
NO. 1-1/2" SHEET
NO. 2-1/8" SHEET
NO. 3-1/4" SHEET
(2 OF EACH REQD.)
1/8" SHEET-CROSS GRAIN
3/32" X 1/4"
1/8" SHEET (3/32" PLYWOOD)
1/8" OR 3/32" PLYWOOD
1/2A BELLCRANK
ELEVATOR PUSHROD TRANSFER LINKAGE
SERVO TRAY-1/8" PLYWOOD
SECTION C-C
PLYWOOD DECK (BATTERY & RECEIVER RETAINER)
SLOT FOR SERVO TRAY
1/8" X 1/2"
1/8" PLYWOOD-USE NYLON SCREWS & WASHERS TO HOLD MODULE IN PLACE
1/8" SHEET-DOUBLER
CONTROL MODULE
DENOTES 1/8" SHEET MODULE SIDE OUTLINE (2 REQD)-LEFT MODULE SIDE NOT SHOWN FOR CLARITY.
COCKPIT CUTOUT PATTERN
NYLON NOSE GEAR BRACKET W/ STEERING ARM
5/32" MUSIC WIRE-NOSE GEAR LEG
2 1/2" WHEEL
BATTERY PACK
1/8" X 1/4"
1/8" SHEET
RECEIVER
SEE CONTROL MODULE DETAIL
WINDSHIELD PATTERN
MAKE FROM .030" CLEAR BUTYRATE PLASTIC SHEET
5/32" MUSIC WIRE-MAIN LANDING GEAR
1/8" SHEET
2 1/2" WHEEL
1/8" PLYWOOD-CABIN ROOF
NOTE: ALL WOOD IS BALSA UNLESS NOTED OTHERWISE.
5/32" MUSIC WIRE
MAIN LANDING GEAR OUTLINE
COWL BOTTOM-NO. 4
CONTOUR TIPS SIMILAR TO WING TIPS-SEE SECTION A-A
(4 OF EACH REQD.)
STABILIZER RIBS-3/32" SHEET
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SPORTSTER 40
A .35-.45 POWERED SPORT DESIGN
DESIGNED BY RICHARD J. SIMMONS
PLANS BY Rod Bartlett
0 1 2 3 4 5 6
PLAN NO. 916