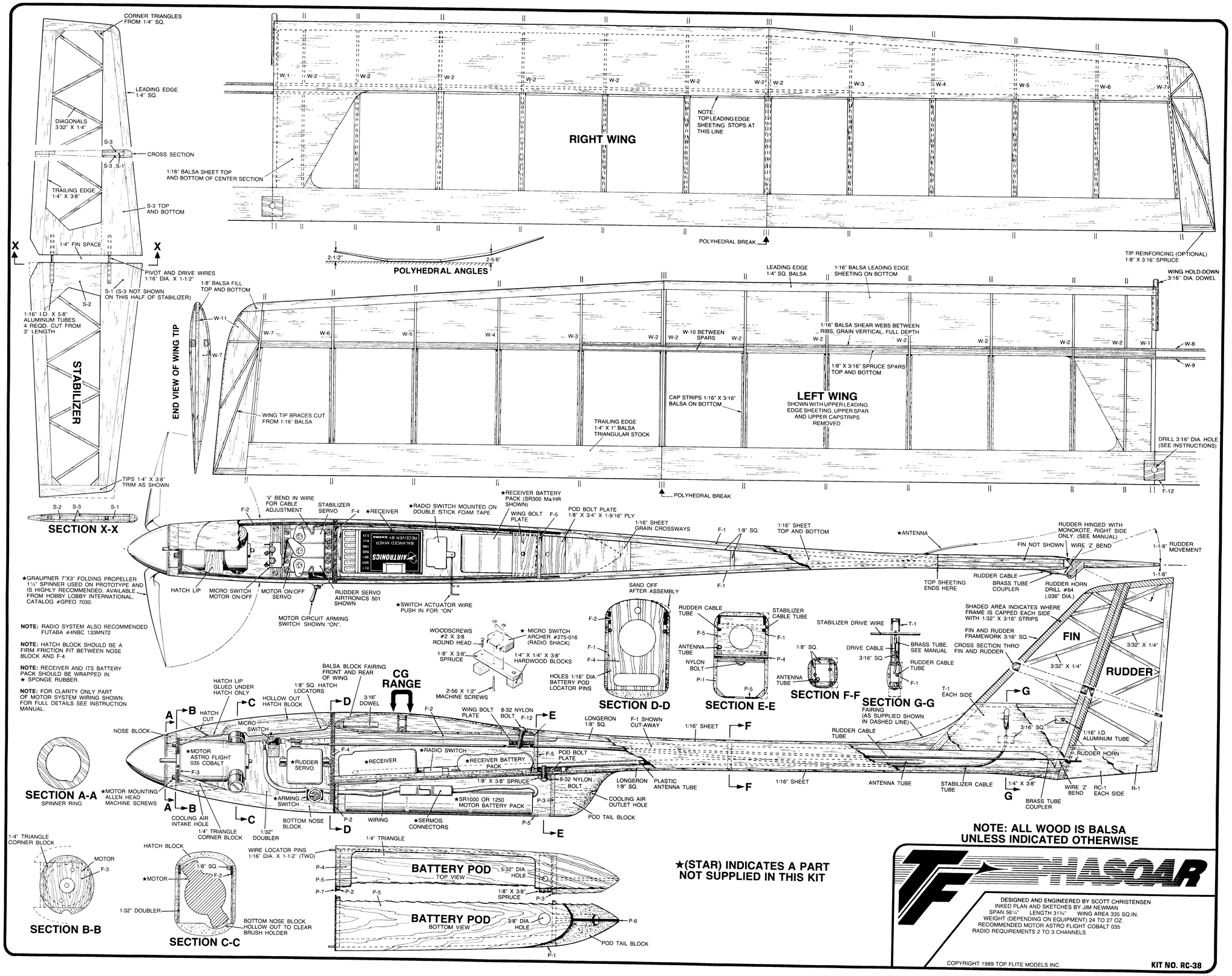
CORNER TRIANGLES FROM 1/4" SQ.
LEADING EDGE 1/4" SQ.
DIAGONALS 3/32" X 1/4"
CROSS SECTION
TRAILING EDGE 1/4" X 3/8"
S-3 TOP AND BOTTOM
1/4" FIN SPACE
PIVOT AND DRIVE WIRES 1/16" DIA. X 1-1/2"
S-1 (S-3 NOT SHOWN ON THIS HALF OF STABILIZER)
1/16" I.D. X 5/8" ALUMINUM TUBES. 4 REQD. CUT FROM 3" LENGTH
STABILIZER
TIPS 1/4" X 3/8" TRIM AS SHOWN
SECTION X-X
RIGHT WING
1/16" BALSA SHEET TOP AND BOTTOM OF CENTER SECTION
NOTE: TOP LEADING EDGE SHEETING STOPS AT THIS LINE
POLYHEDRAL BREAK
POLYHEDRAL ANGLES
TIP REINFORCING (OPTIONAL) 1/8" X 3/16" SPRUCE
WING HOLD-DOWN 3/16" DIA. DOWEL
LEADING EDGE 1/4" SQ. BALSA
1/16" BALSA LEADING EDGE SHEETING ON BOTTOM
1/8" BALSA FILL TOP AND BOTTOM
END VIEW OF WING TIP
W-10 BETWEEN SPARS
1/16" BALSA SHEAR WEBS BETWEEN RIBS, GRAIN VERTICAL, FULL DEPTH
1/8" X 3/16" SPRUCE SPARS TOP AND BOTTOM
LEFT WING
SHOWN WITH UPPER LEADING EDGE SHEETING, UPPER SPAR AND UPPER CAPSTRIPS REMOVED
CAP STRIPS 1/16" X 3/16" BALSA ON BOTTOM
WING TIP BRACES CUT FROM 1/16" BALSA
TRAILING EDGE 1/4" X 1" BALSA TRIANGULAR STOCK
DRILL 3/16" DIA. HOLE (SEE INSTRUCTIONS)
'V' BEND IN WIRE FOR CABLE ADJUSTMENT
STABILIZER SERVO
★RECEIVER
★RADIO SWITCH MOUNTED ON DOUBLE STICK FOAM TAPE
★RECEIVER BATTERY PACK (SR300 Ma/HR SHOWN)
WING BOLT PLATE
POD BOLT PLATE 1/8" X 3/4" X 1-9/16" PLY
1/16" SHEET GRAIN CROSSWAYS
1/8" SQ.
1/16" SHEET TOP AND BOTTOM
★ANTENNA
RUDDER HINGED WITH MONOKOTE, RIGHT SIDE ONLY. (SEE MANUAL)
FIN NOT SHOWN
WIRE 'Z' BEND
1-1/8" RUDDER MOVEMENT
RUDDER CABLE
BRASS TUBE COUPLER
RUDDER HORN DRILL #64 (.036" DIA.)
TOP SHEETING ENDS HERE
★GRAUPNER 7"X3" FOLDING PROPELLER 1½" SPINNER USED ON PROTOTYPE AND IS HIGHLY RECOMMENDED. AVAILABLE FROM HOBBY LOBBY INTERNATIONAL. CATALOG #GPEO 7030.
HATCH LIP
MICRO SWITCH MOTOR ON/OFF
MOTOR ON/OFF SERVO
RUDDER SERVO AIRTRONICS 501 SHOWN
MOTOR CIRCUIT ARMING SWITCH SHOWN "ON".
★SWITCH ACTUATOR WIRE PUSH IN FOR "ON"
NOTE: RADIO SYSTEM ALSO RECOMMENDED FUTABA #4NBC 133MN72
NOTE: HATCH BLOCK SHOULD BE A FIRM FRICTION FIT BETWEEN NOSE BLOCK AND F-4.
NOTE: RECEIVER AND ITS BATTERY PACK SHOULD BE WRAPPED IN ★ SPONGE RUBBER.
NOTE: FOR CLARITY ONLY PART OF MOTOR SYSTEM WIRING SHOWN. FOR FULL DETAILS SEE INSTRUCTION MANUAL.
WOODSCREWS #2 X 3/8 ROUND HEAD
★ MICRO SWITCH ARCHER #275-016 (RADIO SHACK)
1/8" X 3/8" SPRUCE
1/4" X 1/4" X 3/8" HARDWOOD BLOCKS
2-56 X 1/2" MACHINE SCREWS
HOLES 1/16" DIA. BATTERY POD LOCATOR PINS
SAND OFF AFTER ASSEMBLY
SECTION D-D
SECTION E-E
SECTION F-F
SECTION G-G
STABILIZER DRIVE WIRE
DRIVE CABLE
BRASS TUBE. SEE MANUAL
RUDDER CABLE TUBE
STABILIZER CABLE TUBE
ANTENNA TUBE
NYLON BOLT
SHADED AREA INDICATES WHERE FRAME IS CAPPED EACH SIDE WITH 1/32" X 3/16" STRIPS
FIN AND RUDDER FRAMEWORK 3/16" SQ.
CROSS SECTION THRO' FIN AND RUDDER
FIN
RUDDER
3/32" X 1/4"
T-1 EACH SIDE
FAIRING (AS SUPPLIED SHOWN IN DASHED LINE)
3/16" SQ.
1/16" I.D. ALUMINUM TUBE
RUDDER HORN
BALSA BLOCK FAIRING FRONT AND REAR OF WING
CG RANGE
HATCH LIP GLUED UNDER HATCH ONLY
1/8" SQ. HATCH LOCATORS
HOLLOW OUT HATCH BLOCK
3/16" DOWEL
HATCH CUT
MICRO SWITCH
NOSE BLOCK
WING BOLT PLATE
8-32 NYLON BOLT
LONGERON 1/8" SQ.
F-1 SHOWN CUT-AWAY
1/16" SHEET
★MOTOR ASTRO FLIGHT 035 COBALT
★RUDDER SERVO
★RECEIVER
★RADIO SWITCH
★RECEIVER BATTERY PACK
POD BOLT PLATE
1/8" X 3/8" SPRUCE
8-32 NYLON BOLT
LONGERON 1/8" SQ.
PLASTIC ANTENNA TUBE
COOLING AIR OUTLET HOLE
POD TAIL BLOCK
★SR1000 OR 1250 MOTOR BATTERY PACK
★SERMOS CONNECTORS
WIRING
★ARMING SWITCH
BOTTOM NOSE BLOCK
COOLING AIR INTAKE HOLE
1/4" TRIANGLE CORNER BLOCK
1/32" DOUBLER
★MOTOR MOUNTING ALLEN HEAD MACHINE SCREWS
SECTION A-A
SPINNER RING
SECTION B-B
SECTION C-C
HATCH BLOCK
BOTTOM NOSE BLOCK. HOLLOW OUT TO CLEAR BRUSH HOLDER
WIRE LOCATOR PINS 1/16" DIA. X 1-1/2" (TWO)
BATTERY POD TOP VIEW
BATTERY POD BOTTOM VIEW
5/32" DIA. HOLE
3/8" DIA. HOLE
POD TAIL BLOCK
★(STAR) INDICATES A PART NOT SUPPLIED IN THIS KIT
NOTE: ALL WOOD IS BALSA UNLESS INDICATED OTHERWISE
PHASOAR
DESIGNED AND ENGINEERED BY SCOTT CHRISTENSEN
INKED PLAN AND SKETCHES BY JIM NEWMAN
SPAN 56½" LENGTH 31⅝" WING AREA 335 SQ.IN.
WEIGHT (DEPENDING ON EQUIPMENT) 24 TO 27 OZ.
RECOMMENDED MOTOR ASTRO FLIGHT COBALT 035
RADIO REQUIREMENTS 2 TO 3 CHANNELS
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KIT NO. RC-38
150026