EAGLE 63

R/C SPORT TRAINER
FOR 3 or 4 CHANNEL RADIO and .29 to .49 ENGINES
SPAN 62-3/8". LENGTH 45".
AREA 715 SQ. IN. WEIGHT 78 oz.

DESIGNED BY CARL GOLDBERG
TECHNICAL ASSISTANCE BY LYNN BYRD
DRAWN BY WARREN ANDREWS AND MAC MCVICKAR
CONSTRUCTION PHOTOS BY MODEL CRAFTER

THE EAGLE IS MADE FROM FOUR KINDS OF WOOD: BALSA, BASS, BIRCH, AND VARIOUS PLYWOODS. EACH OF THESE WOODS HAS ITS OWN CHARACTERISTIC AND GRAIN PATTERN (AS VIEWED FROM THE END) WHICH HAS BEEN DRAWN ON THE PLANS. YOU CAN EASILY USE THESE PATTERNS TO IDENTIFY WHAT KIND OF WOOD IS SHOWN FOR A PART IF YOU ARE IN DOUBT.

END VIEW OF WOOD
BALSA
BASS AND BIRCH
PLYWOOD

PLAN 858

0 1 2 3 4 5 6

NOTE: ALL ACCESSORIES SHOWN ARE MADE BY CARL GOLDBERG MODELS

COMPLETED MODEL
(trim not also removed for clarity)

© ALL COMMERCIAL RIGHTS RESERVED

SCRAP 1/4" BALSA SKAT BACK
SCRAP PLY
-SOARSMAN- PILOT FIGURE by WILLIAMS BROS. (No. 183)
RECESS HOLD-DOWNS 1/8" FROM EDGE AND INSTALL IN SAME METHOD AS HATCH
NYLON HOLD-DOWNS
OPTIONAL PILOT FIGURE IN CABIN ADDS A FINAL TOUCH OF REALISM
SCRAP 1/8" PLY RAILS

REMOVED VIEW OF O.S. .40 R/C ENGINE INSTALLATION
TO MUFFLER FITTING

NYLON HATCH HOLD-DOWN
1/8" PLY TONGUE
1/8" PLY HATCH COVER

5/32" MAIN GEAR
2-1/2" ø
5/32" NOSE GEAR
2-1/4" NOSE WHEEL

METAL OR NYLON LANDING GEAR STRAPS
CHARGING JACK
"ON-OFF" SWITCH
FRONT FUSELAGE BOTTOM
NOSE DOUBLER
2-1/4" CC SNAP-ON SPINNER
1/4" BIRCH PLY BREAKAWAY PLATE
NOSEGEAR BEARING
STEERING ARM
1/8" PLY LANDING GEAR MOUNT
RECEIVER
BATTERY
SUPPORT FOAM RUBBER
SUPPORT TANK WITH SOFT FOAM RUBBER
FIREWALL
(FORMER "A")
3/8" x 1/2" BIRCH ENGINE BEARERS
FORMER "B"
NYLON PUSHROD GUIDE TUBES
SULLIVAN 8 OZ. FUEL TANK
HATCH TONGUE
FORMER "C"
FORMER "D"
FORMER "E"
FORMER "F"
1/4" DORSAL FIN
ELEVATOR PUSHROD
RUDDER PUSHROD
REAR FUSELAGE BOTTOM
TO MINIMIZE SCRAPING, TAPER COAT END OF FUSE BOTTOM WITH MONOKOTE OR USE CC "SURF GUARD" (TRANSPARENT SCUFF-RESISTANT STRIP)
MINI-SNAP
ELEVATOR CONTROL HORN (LARGE HORN)
RUDDER CONTROL HORN (SMALL HORN)
FUSELAGE TOP
1/4" x 1/2" BALSA
1/8" x 1/4" BALSA
1/32" MAXIMUM GAP TO INCREASE EFFECTIVENESS AND AVOID FLUTTER
BROKEN VIEW SHOWING STABILIZER PLATFORM AND ELEVATOR LINKAGE
STABILIZER PLATFORM
ANTENNA
MOUNTING RAILS
GLOW PLUG
GASKET
PUSHRODS MUST OPERATE CONTROLS WITH EXTREMELY LIGHT PRESSURE. THEY MUST MOVE FREELY, WITHOUT BINDING.
SIDE CHECK BLOCK
1/16" x 1" B
AILERON SERVO
1/16" PLY LANDING GEAR MOUNT
SAN-532 SERVO MOUNTING RAILS
3" STIFF ALLEN HORN BACK
SAN-532 CG# WSI
SAN-532 SERVO MOUNTING RAILS
1/16" DIA. PIANO WIRE
CARVE DOWEL FOR AMPLE ALLEN HORN CLEARANCE
5/16" WING DOWEL
5/16" DIA. WING DOWEL
BLUE 1/16" DIA. PIANO WIRE
PLASTIC SIDE WINDOW
BALANCE RANGE
THE MODEL MUST BALANCE WITHIN THIS RANGE-PREFERABLY AT THE WING SPAR.
5/16" DIA. WING DOWEL
GAIN TOP DOUBLER
DASHBOARD TOP
PLASTIC WINDSHIELD
WINDSHIELD TOP FORMER
FUEL TANK VENT LINE (OVERFLOW) CONNECTED TO MUFFLER FITTING
HELP PRESERVE OUR FLYING FIELD'S, USE A MUFFLER !
K&B .40 R/C ENGINE SHOWN
BROKEN VIEW THROUGH ENGINE TO SHOW THROTTLE LINKAGE
1/16" WIRE NOSE GEAR STEERING PUSHROD
BASS HATCH SUPPORT
END VIEW
MOUNT SWITCH ON FUSELAGE SIDE OPPOSITE OF EXHAUST
#7 SHOULDER SCREW FOR HATCH ATTACHMENT
HATCH REMOVED FOR CLARITY (HATCH AT LOWER LEFT)
DASHBOARD
DASHBOARD TOP
THROTTLE SERVO
BATTERY
RECEIVER
1/16" WIRE THROTTLE PUSHROD
1/4" BALSA PUSHROD SUPPORT
SUPERCOUND BATTERY PACK AND RECEIVER WITH FOAM RUBBER
5/16" DIA. WING DOWEL
BROKEN VIEW THROUGH EXHAUST STACK TO SHOW THROTTLE LINKAGE & ENGINE MOUNTING DETAIL
THREADED COUPLER (SOLDERED TO WIRE)
MINI-SNAP
ENGINE THROTTLE ARM

TYPICAL FOR EDGE ROUNDING TAIL SURFACES
1/4" X 1/2" LEADING EDGE
1/4" X 1/2" TRAILING EDGE
1/32" MAXIMUM GAP TO INCREASE EFFECTIVENESS AND AVOID FLUTTER
1/4" BALSA
NOTE GRAIN DIRECTION
STABILIZER
1/4" x 1-1/2" ELEVATOR
1/8" x 1/4" BALSA (TYPICAL)
1/4" BALSA GUSSET (TYPICAL)
1/4" BALSA TIP

KLETT REGULAR PINNED HINGES CG# RK3
1/4" x 1/2" BALSA
1/8" x 1/4" BALSA (TYPICAL)
FIN

6" — HIGH DIHEDRAL
3-1/2" MEDIUM DIHEDRAL
2-1/4" LOW DIHEDRAL
MEASURE DIHEDRAL FROM BOTTOM OF TIP RIB WITH OTHER HALF OF WING FLAT ON TABLE
FRONT VIEW OF WING TIP

5/16" DIAMETER LEADING EDGE DOWEL
WEB
3/8" x 3/8" SPAR
INSTALL THESE TWO WEBS AFTER SHEETING
LOCATIONS FOR CROSSPINNING SPAR
3/32" BALSA BOTTOM SHEETING
RIGHT WING
BALSA WING TIP
1/8" BIRCH PLYWOOD WING BRACE
1/4" BALSA GUSSET (TYPICAL)
TRAILING EDGE
AILERON

5/16" DIA. WING DOWEL
LEADING EDGE DOWEL
WRAP 2-1/2" WIDE NYLON FABRIC AROUND ENTIRE CENTER JOINT
INSTALL THESE TWO WEBS AFTER TOP SHEETING
NOTCH WEBS AS REQUIRED TO CLEAR SHEETING
1/8" BIRCH PLY DIHEDRAL JOINERS
BROKEN VIEW THROUGH TOP SHEETING TO SHOW BOTTOM OF SERVO INSIDE WING
BALSA WING TIPS
LEFT WING
1/4" BALSA GUSSET (TYPICAL)
1/8" BIRCH PLYWOOD BRACE
TRAILING EDGE
1/32" MAXIMUM GAP TO INCREASE AILERON EFFECTIVENESS AND AVOID FLUTTER
AILERON
FILE ENDS TO A POINTED SHAPE FOR EASIER AILERON MOUNTING
3/32" STRIP AILERON HORN WIRE
NYLON TUBE
SLIDE CHECK BLOCK
THESE BLOCKS PREVENT THE WING FROM SHIFTING BACKWARD, WHICH COULD JAM THE AILERON CONTROL LINKAGE.
INBOARD TRAILING EDGE
ALUMINUM TRAILING EDGE STIFFENER
HINGES ARE NOT PERMANENTLY INSTALLED UNTIL AFTER MODEL IS COVERED