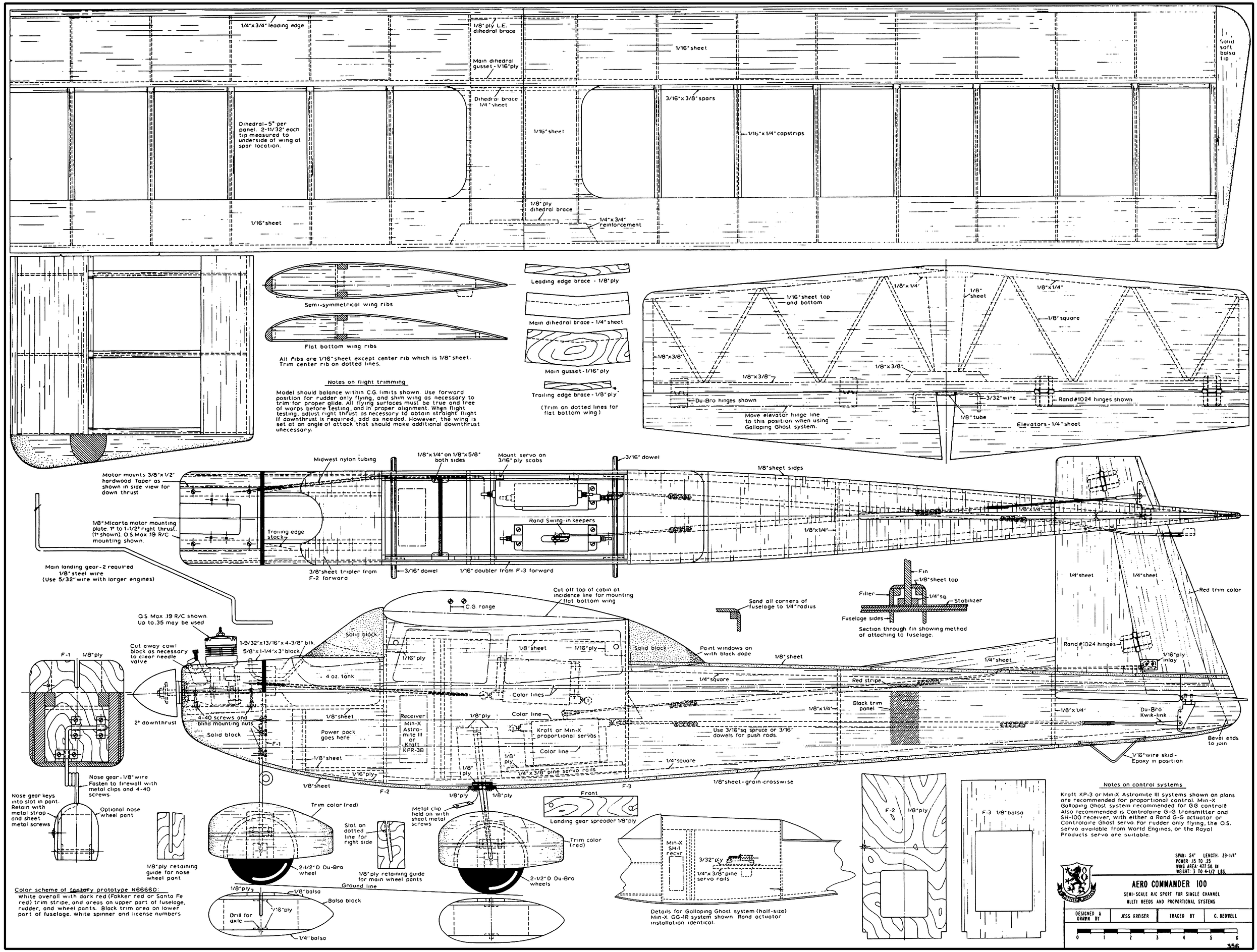
1/4"x3/4" leading edge
1/8" ply L.E. dihedral brace
1/16" sheet
Solid soft balsa tip
Main dihedral gusset - 1/16" ply
Dihedral brace 1/4" sheet
3/16"x3/8" spars
Dihedral - 5° per panel. 2-11/32" each tip measured to underside of wing at spar location.
1/16" sheet
1/16"x1/4" capstrips
1/8" ply dihedral brace
1/4"x3/4" reinforcement
1/16" sheet
Semi-symmetrical wing ribs
Flat bottom wing ribs
All ribs are 1/16" sheet except center rib which is 1/8" sheet. Trim center rib on dotted lines.
Notes on flight trimming
Model should balance within C.G. limits shown. Use forward position for rudder only flying, and shim wing as necessary to trim for proper glide. All flying surfaces must be true and free of warps before testing, and in proper alignment. When flight testing, adjust right thrust as necessary to obtain straight flight. If downthrust is required, add as needed. However, the wing is set at an angle of attack that should make additional downthrust unecessary.
Leading edge brace - 1/8" ply
Main dihedral brace - 1/4" sheet
Main gusset - 1/16" ply
Trailing edge brace - 1/8" ply
(Trim on dotted lines for flat bottom wing)
1/16" sheet top and bottom
1/8"x1/4"
1/8" sheet
1/8"x1/4"
1/8" square
1/8"x3/8"
1/8"x3/8"
1/8"x3/8"
Du-Bro hinges shown
Move elevator hinge line to this position when using Galloping Ghost system.
3/32" wire
Rand #1024 hinges shown
1/8" tube
Elevators - 1/4" sheet
Midwest nylon tubing
1/8"x1/4" on 1/8"x5/8" both sides
Mount servo on 3/16" ply scabs
3/16" dowel
1/8" sheet sides
Motor mounts 3/8"x1/2" hardwood. Taper as shown in side view for down thrust
1/8" Micarta motor mounting plate. 1° to 1-1/2° right thrust. (1° shown). O.S. Max .19 R/C mounting shown.
Trailing edge stock
Rand Swing-in keepers
1/8"x1/4"
1/8"x1/4"
Main landing gear - 2 required 1/8" steel wire (Use 5/32" wire with larger engines)
3/8" sheet tripler from F-2 forward
3/16" dowel
1/16" doubler from F-3 forward
1/4" sheet
1/4" sheet
Red trim color
Fin
1/8" sheet top
Filler
1/4" sq.
Stabilizer
Fuselage sides
Section through fin showing method of attaching to fuselage.
Sand all corners of fuselage to 1/4" radius
C.G. range
Cut off top of cabin at incidence line for mounting flat bottom wing
O.S. Max .19 R/C shown. Up to .35 may be used
Cut away cowl block as necessary to clear needle valve
1-9/32"x13/16"x4-3/8" blk
5/8"x1-1/4"x3" block
Solid block
Solid block
Paint windows on with black dope
1/8" sheet
1/16" ply
1/8" sheet
1/16" ply
4 oz. tank
1/4" square
1/4" sheet
Rand #1024 hinges
1/16" ply inlay
Red stripe
Color lines
Black trim panel
1/8"x1/4"
1/8"x1/4"
Du-Bro Kwik-link
F-1
1/8" ply
2° downthrust
4-40 screws and blind mounting nuts
Solid block
F-1
Receiver
Min-X Astromite III or Kraft KPR-3B
Power pack goes here
1/8" sheet
1/8" ply
Color line
Kraft or Min-X proportional servos
Use 3/16" sq spruce or 3/16" dowels for push rods.
Color line
1/8" ply
1/4"x3/8" pine servo rails
1/4" square
Bevel ends to join
1/16" wire skid - Epoxy in position
1/8" sheet
1/16" ply
1/8" sheet
F-2
1/8" ply
1/8" ply
F-3
1/8" sheet - grain crosswise
Nose gear - 1/8" wire. Fasten to firewall with metal clips and 4-40 screws.
Nose gear keys into slot in pant. Retain with metal strap and sheet metal screws
Optional nose wheel pant
Trim color (red)
Slot on dotted line for right side
Metal clip held on with sheet metal screws
Front
Landing gear spreader 1/8" ply
Trim color (red)
1/8" ply retaining guide for nose wheel pant
2-1/2" D Du-Bro wheel
1/8" ply retaining guide for main wheel pants
2-1/2" D Du-Bro wheels
Ground line
1/8" ply
1/8" balsa
Balsa block
1/16" ply
Drill for axle
1/4" balsa
Min-X SH-1 recvr
3/32" ply
1/4"x3/8" pine servo rails
Details for Galloping Ghost system (half-size) Min-X GG-1R system shown. Rand actuator installation identical.
F-2 1/8" ply
F-3 1/8" balsa
Color scheme of factory prototype N6666D:
White overall with dark red (Fokker red or Santa Fe red) trim stripe, and areas on upper part of fuselage, rudder, and wheel pants. Black trim area on lower part of fuselage. White spinner and license numbers.
Notes on control systems
Kraft KP-3 or Min-X Astromite III systems shown on plans are recommended for proportional control. Min-X Galloping Ghost system recommended for GG controlB. Also recommended is Controlaire G-G transmitter and SH-100 receiver, with either a Rand G-G actuator or Controlaire Ghost servo. For rudder only flying, the O.S. servo available from World Engines, or the Royal Products servo are suitable.
SPAN: 54" LENGTH: 39-1/4"
POWER: .15 TO .35
WING AREA: 477 SQ. IN
WEIGHT: 3 TO 4-1/2 LBS.
AERO COMMANDER 100
SEMI-SCALE R/C SPORT FOR SINGLE CHANNEL MULTI REEDS AND PROPORTIONAL SYSTEMS
DESIGNED & DRAWN BY
JESS KREISER
TRACED BY
C. BEDWELL
0 1 2 3 4 5 6
356