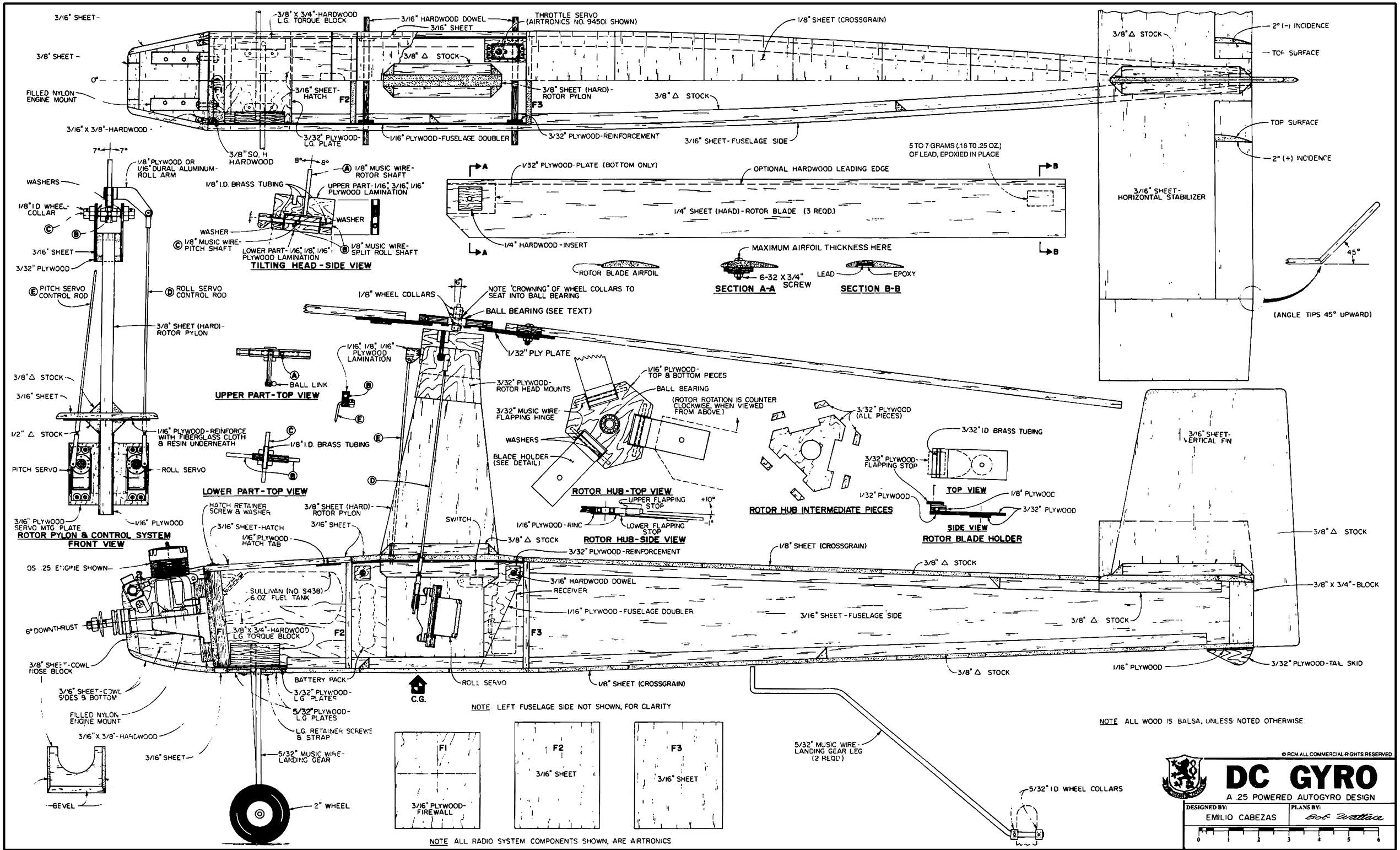
3/16" SHEET
3/8" SHEET
0°
FILLED NYLON ENGINE MOUNT
3/16" X 3/8"-HARDWOOD
3/8" X 3/4"-HARDWOOD L.G. TORQUE BLOCK
3/16" HARDWOOD DOWEL
3/16" SHEET
THROTTLE SERVO (AIRTRONICS NO. 94501 SHOWN)
1/8" SHEET (CROSSGRAIN)
3/8" Δ STOCK
3/16" SHEET-HATCH
F1
F2
F3
3/8" SHEET (HARD)-ROTOR PYLON
3/8" Δ STOCK
3/32" PLYWOOD-L.G. PLATE
1/16" PLYWOOD-FUSELAGE DOUBLER
3/32" PLYWOOD-REINFORCEMENT
3/16" SHEET-FUSELAGE SIDE
3/8" SQ. H HARDWOOD
3/8" Δ STOCK
2° (-) INCIDENCE
TOP SURFACE
TOP SURFACE
2° (+) INCIDENCE
3/16" SHEET-HORIZONTAL STABILIZER
45°
(ANGLE TIPS 45° UPWARD)
7° 7°
1/8" PLYWOOD OR 1/16" DURAL ALUMINUM-ROLL ARM
WASHERS
1/8" I.D. WHEEL-COLLAR
3/16" SHEET
3/32" PLYWOOD
PITCH SERVO CONTROL ROD
ROLL SERVO CONTROL ROD
3/8" SHEET (HARD)-ROTOR PYLON
3/8" Δ STOCK
3/16" SHEET
1/2" Δ STOCK
1/16" PLYWOOD-REINFORCE WITH FIBERGLASS CLOTH & RESIN UNDERNEATH
PITCH SERVO
ROLL SERVO
3/16" PLYWOOD SERVO MTG PLATE
1/16" PLYWOOD
ROTOR PYLON & CONTROL SYSTEM FRONT VIEW
8° 8°
1/8" MUSIC WIRE-ROTOR SHAFT
1/8" I.D. BRASS TUBING
UPPER PART-1/16", 3/16", 1/16" PLYWOOD LAMINATION
WASHER
WASHER
1/8" MUSIC WIRE-PITCH SHAFT
LOWER PART-1/16", 1/8", 1/16" PLYWOOD LAMINATION
1/8" MUSIC WIRE-SPLIT ROLL SHAFT
TILTING HEAD-SIDE VIEW
1/32" PLYWOOD-PLATE (BOTTOM ONLY)
OPTIONAL HARDWOOD LEADING EDGE
5 TO 7 GRAMS (.18 TO .25 OZ.) OF LEAD, EPOXIED IN PLACE
1/4" SHEET (HARD)-ROTOR BLADE (3 REQD.)
1/4" HARDWOOD-INSERT
ROTOR BLADE AIRFOIL
MAXIMUM AIRFOIL THICKNESS HERE
6-32 X 3/4" SCREW
SECTION A-A
LEAD
EPOXY
SECTION B-B
1/8" WHEEL COLLARS
NOTE "CROWNING" OF WHEEL COLLARS TO SEAT INTO BALL BEARING
BALL BEARING (SEE TEXT)
1/32" PLY PLATE
1/16", 1/8", 1/16" PLYWOOD LAMINATION
BALL LINK
UPPER PART-TOP VIEW
3/32" PLYWOOD-ROTOR HEAD MOUNTS
1/16" PLYWOOD-TOP & BOTTOM PIECES
BALL BEARING
(ROTOR ROTATION IS COUNTER CLOCKWISE, WHEN VIEWED FROM ABOVE)
3/32" MUSIC WIRE-FLAPPING HINGE
WASHERS
BLADE HOLDER (SEE DETAIL)
ROTOR HUB-TOP VIEW
1/8" I.D. BRASS TUBING
LOWER PART-TOP VIEW
UPPER FLAPPING STOP
+10°
-1°
LOWER FLAPPING STOP
1/16" PLYWOOD-RING
ROTOR HUB-SIDE VIEW
3/32" PLYWOOD (ALL PIECES)
ROTOR HUB INTERMEDIATE PIECES
3/32" I.D. BRASS TUBING
3/32" PLYWOOD-FLAPPING STOP
TOP VIEW
1/32" PLYWOOD
1/8" PLYWOOD
3/32" PLYWOOD
SIDE VIEW
ROTOR BLADE HOLDER
3/16" SHEET-VERTICAL FIN
HATCH RETAINER SCREW & WASHER
3/8" SHEET (HARD)-ROTOR PYLON
3/16" SHEET-HATCH
3/16" SHEET
1/16" PLYWOOD-HATCH TAB
SWITCH
3/8" Δ STOCK
3/32" PLYWOOD-REINFORCEMENT
1/8" SHEET (CROSSGRAIN)
3/8" Δ STOCK
3/8" Δ STOCK
OS .25 ENGINE SHOWN
SULLIVAN (NO. S438) 6 OZ. FUEL TANK
3/16" HARDWOOD DOWEL
RECEIVER
1/16" PLYWOOD-FUSELAGE DOUBLER
3/16" SHEET-FUSELAGE SIDE
3/8" Δ STOCK
3/8" X 3/4"-BLOCK
6° DOWNTHRUST
F1
3/8" X 3/4"-HARDWOOD L.G. TORQUE BLOCK
F2
F3
3/8" SHEET-COWL NOSE BLOCK
BATTERY PACK
ROLL SERVO
1/8" SHEET (CROSSGRAIN)
3/8" Δ STOCK
1/16" PLYWOOD
3/32" PLYWOOD-TAIL SKID
3/16" SHEET-COWL SIDES & BOTTOM
3/32" PLYWOOD-L.G. PLATES
C.G.
FILLED NYLON ENGINE MOUNT
5/32" PLYWOOD-L.G. PLATES
3/16" X 3/8"-HARDWOOD
L.G. RETAINER SCREWS & STRAP
3/16" SHEET
5/32" MUSIC WIRE-LANDING GEAR
BEVEL
2" WHEEL
NOTE: LEFT FUSELAGE SIDE NOT SHOWN, FOR CLARITY
F1
3/16" PLYWOOD-FIREWALL
F2
3/16" SHEET
F3
3/16" SHEET
NOTE: ALL RADIO SYSTEM COMPONENTS SHOWN, ARE AIRTRONICS
5/32" MUSIC WIRE-LANDING GEAR LEG (2 REQD.)
5/32" I.D. WHEEL COLLARS
NOTE: ALL WOOD IS BALSA, UNLESS NOTED OTHERWISE.
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DC GYRO
A .25 POWERED AUTOGYRO DESIGN
DESIGNED BY: EMILIO CABEZAS
PLANS BY: Bob Wallace
0 1 2 3 4 5 6
PLAN NO 1244