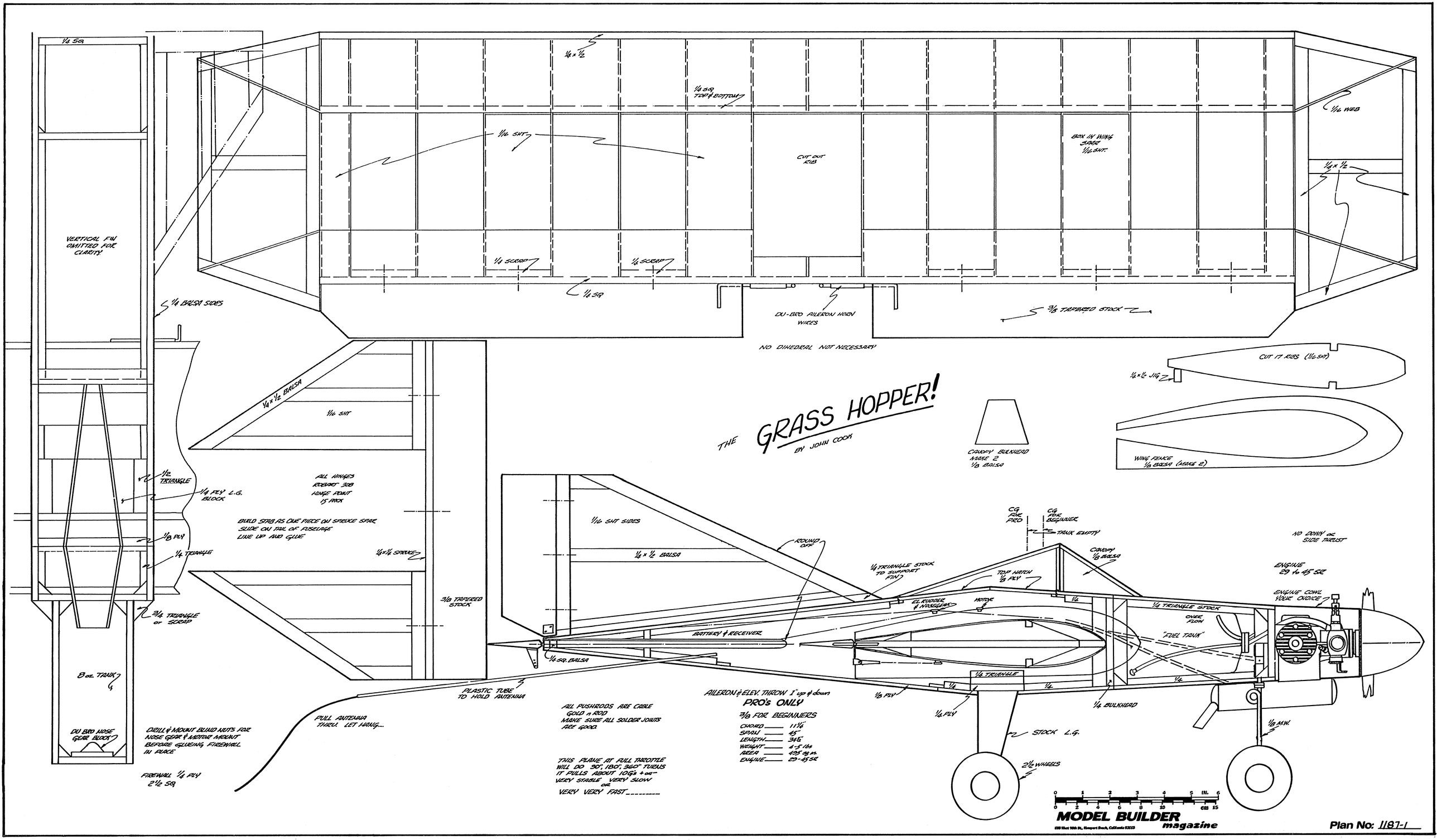
THE GRASS HOPPER!
BY JOHN COOK
1/2 SQ
VERTICAL FIN OMITTED FOR CLARITY
1/4 BALSA SIDES
1/4 x 1/2
1/4 SQ. TOP & BOTTOM
1/16 SHT
CUT OUT RIB
BOX IN WING SPAR 1/16 SHT.
1/4 x 1/2
1/16 WEB
1/4 SCRAP
1/4 SCRAP
1/4 SQ
DU-BRO AILERON HORN WIRES
3/8 TAPERED STOCK
NO DIHEDRAL NOT NECESSARY
CUT 17 RIBS (1/16 SH)
1/4 x 1/2 JIG
1/4 x 1/2 BALSA
1/16 SHT
ALL HINGES ROBART 328 HINGE POINT 15 FROM
BUILD STAB AS ONE PIECE ON SPRUCE SPAR SLIDE ON TAIL OF FUSELAGE LINE UP AND GLUE
1/4 x 1/4 SPRUCE
3/8 TAPERED STOCK
1/2 TRIANGLE
1/4 PLY L.G. BLOCK
1/8 PLY
1/4 TRIANGLE
3/4 TRIANGLE or SCRAP
8 oz. TANK
DU BRO NOSE GEAR BLOCK
DRILL & MOUNT BLIND NUTS FOR NOSE GEAR & MOTOR MOUNT BEFORE GLUEING FIREWALL IN PLACE
FIREWALL 1/4 PLY 2 1/2 SQ
PULL ANTENNA THRU. LET HANG....
PLASTIC TUBE TO HOLD ANTENNA
1/16 SHT SIDES
1/4 x 1/2 BALSA
ROUND OFF
1/4 SQ. BALSA
BATTERY & RECEIVER
1/4 TRIANGLE STOCK TO SUPPORT FIN
EL. RUDDER & MAGGERIC
MOTOR
TOP HATCH 1/8 PLY
CANOPY 1/8 BALSA
CG FOR PRO
CG FOR BEGINNER
TANK EMPTY
1/4 TRIANGLE STOCK
OVER FLOW
"FUEL TANK"
1/4 TRIANGLE
1/8 PLY
1/4 PLY
1/4 BULKHEAD
STOCK L.G.
2 1/2 WHEELS
1/2 MW.
NO DOWN or SIDE THRUST
ENGINE 29 to 45 SIZE
ENGINE COWL YOUR CHOICE
ALL PUSHRODS ARE CABLE GOLD n ROD MAKE SURE ALL SOLDER JOINTS ARE GOOD.
THIS PLANE AT FULL THROTTLE WILL DO 90°, 180°, 360° TURNS IT PULLS ABOUT 10G's + or - VERY STABLE VERY SLOW or VERY VERY FAST
AILERON & ELEV. THROW 1" up & down
PRO's ONLY
3/8 FOR BEGINNERS
CHORD 11 1/4"
SPAN 45"
LENGTH 34 1/2"
WEIGHT 4-5 lbs
AREA 425 sq in.
ENGINE 29-45 SIZE
CANOPY BULKHEAD MAKE 2 1/8 BALSA
WING FENCE 1/8 BALSA (MAKE 2)
0 1 2 3 4 5 IN. 6
0 2 4 6 8 10 CM 15
MODEL BUILDER magazine
Plan No: 1187-1