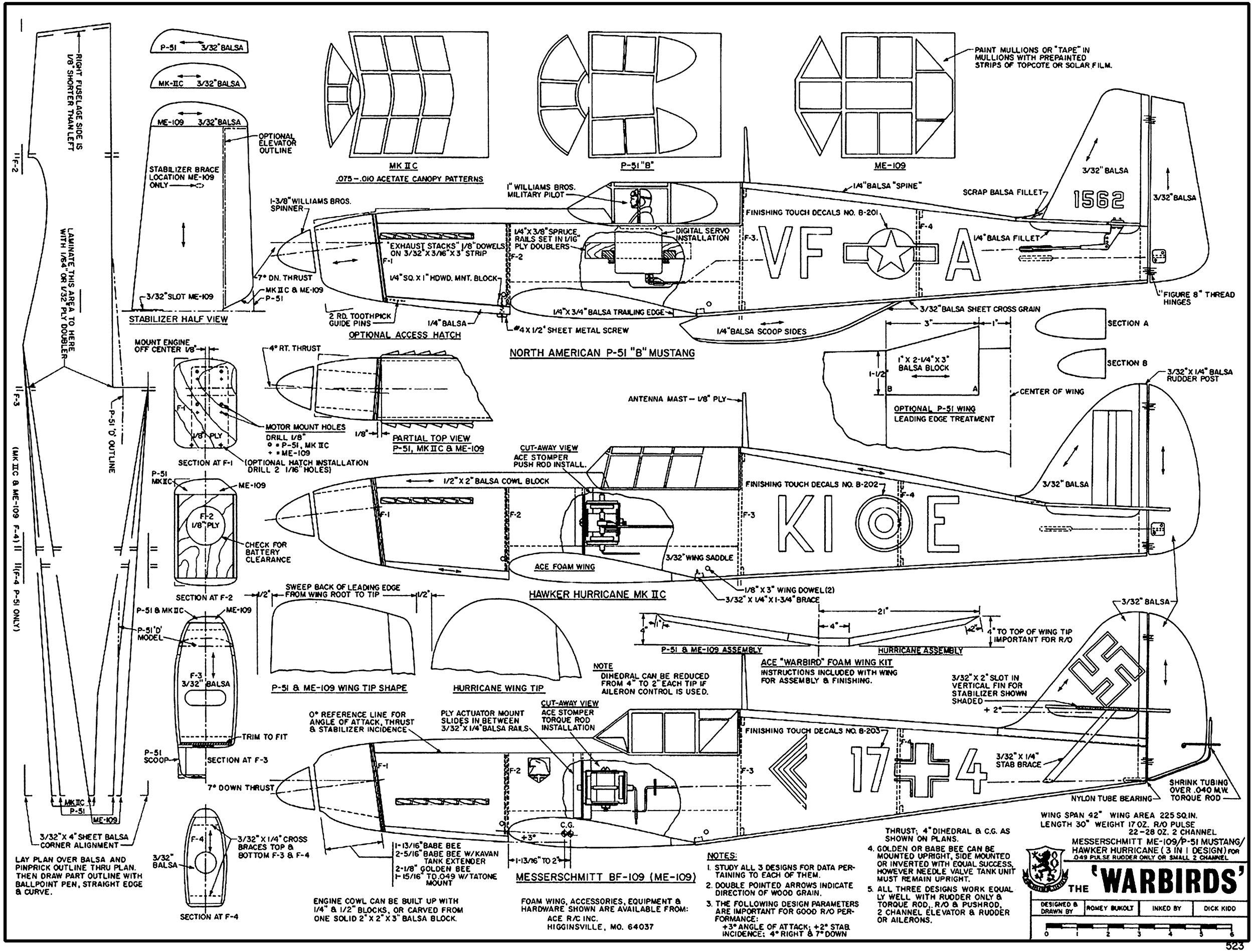
RIGHT FUSELAGE SIDE IS 1/8" SHORTER THAN LEFT
LAMINATE THIS AREA TO HERE WITH 1/64" OR 1/32" PLY DOUBLER
P-51 'D' OUTLINE
(MK IIC & ME-109 F-4) (F-4 P-51 ONLY)
F-2
F-3
P-51 3/32" BALSA
MK-IIC 3/32" BALSA
ME-109 3/32" BALSA
OPTIONAL ELEVATOR OUTLINE
STABILIZER BRACE LOCATION ME-109 ONLY
3/32" SLOT ME-109
STABILIZER HALF VIEW
MK IIC
P-51 "B"
ME-109
PAINT MULLIONS OR "TAPE" IN MULLIONS WITH PREPAINTED STRIPS OF TOPCOTE OR SOLAR FILM.
.075-.010 ACETATE CANOPY PATTERNS
1" WILLIAMS BROS. MILITARY PILOT
1-3/8" WILLIAMS BROS. SPINNER
"EXHAUST STACKS" 1/8" DOWELS ON 3/32" X 3/16" X 3" STRIP
1/4" X 3/8" SPRUCE RAILS SET IN 1/16" PLY DOUBLERS
DIGITAL SERVO INSTALLATION
1/4" SQ. X 1" HDWD. MNT. BLOCK
7° DN. THRUST
MK IIC & ME-109
P-51
2 RD. TOOTHPICK GUIDE PINS
1/4" BALSA
#4 X 1/2" SHEET METAL SCREW
OPTIONAL ACCESS HATCH
1/4" X 3/4" BALSA TRAILING EDGE
1/4" BALSA SCOOP SIDES
1/4" BALSA "SPINE"
SCRAP BALSA FILLET
3/32" BALSA
1562
FINISHING TOUCH DECALS NO. B-201
VF A
1/4" BALSA FILLET
"FIGURE 8" THREAD HINGES
3/32" BALSA SHEET CROSS GRAIN
NORTH AMERICAN P-51 "B" MUSTANG
SECTION A
SECTION B
1" X 2-1/4" X 3" BALSA BLOCK
OPTIONAL P-51 WING LEADING EDGE TREATMENT
CENTER OF WING
3/32" X 1/4" BALSA RUDDER POST
MOUNT ENGINE OFF CENTER 1/8"
4° RT. THRUST
MOTOR MOUNT HOLES
DRILL 1/8"
o = P-51, MK IIC
+ = ME-109
(OPTIONAL HATCH INSTALLATION DRILL 2 1/16" HOLES)
1/8" PLY
SECTION AT F-1
PARTIAL TOP VIEW P-51, MK IIC & ME-109
ANTENNA MAST - 1/8" PLY
CUT-AWAY VIEW ACE STOMPER PUSH ROD INSTALL.
1/2" X 2" BALSA COWL BLOCK
FINISHING TOUCH DECALS NO. B-202
KI E
3/32" BALSA
ACE FOAM WING
3/32" WING SADDLE
1/8" X 3" WING DOWEL (2)
3/32" X 1/4" X 1-3/4" BRACE
HAWKER HURRICANE MK IIC
P-51 ME-109
CHECK FOR BATTERY CLEARANCE
SECTION AT F-2
SWEEP BACK OF LEADING EDGE FROM WING ROOT TO TIP
P-51 & MK IIC
P-51 'D' MODEL
F-3 3/32" BALSA
TRIM TO FIT
P-51 SCOOP
SECTION AT F-3
P-51 & ME-109 WING TIP SHAPE
HURRICANE WING TIP
P-51 & ME-109 ASSEMBLY
HURRICANE ASSEMBLY
4" TO TOP OF WING TIP IMPORTANT FOR R/O
ACE "WARBIRD" FOAM WING KIT
INSTRUCTIONS INCLUDED WITH WING FOR ASSEMBLY & FINISHING.
NOTE
DIHEDRAL CAN BE REDUCED FROM 4" TO 2" EACH TIP IF AILERON CONTROL IS USED.
3/32" X 2" SLOT IN VERTICAL FIN FOR STABILIZER SHOWN SHADED
+ 2°
0° REFERENCE LINE FOR ANGLE OF ATTACK, THRUST & STABILIZER INCIDENCE
PLY ACTUATOR MOUNT SLIDES IN BETWEEN 3/32" X 1/4" BALSA RAILS
CUT-AWAY VIEW ACE STOMPER TORQUE ROD INSTALLATION
FINISHING TOUCH DECALS NO. B-203
17 4
3/32" X 1/4" STAB BRACE
SHRINK TUBING OVER .040 M.W. TORQUE ROD
NYLON TUBE BEARING
7° DOWN THRUST
3/32" X 4" SHEET BALSA CORNER ALIGNMENT
LAY PLAN OVER BALSA AND PINPRICK OUTLINE THRU PLAN. THEN DRAW PART OUTLINE WITH BALLPOINT PEN, STRAIGHT EDGE & CURVE.
3/32" BALSA
3/32" X 1/4" CROSS BRACES TOP & BOTTOM F-3 & F-4
SECTION AT F-4
1-13/16" BABE BEE
2-5/16" BABE BEE W/KAVAN TANK EXTENDER
2-1/8" GOLDEN BEE
1-15/16" TD.049 W/TATONE MOUNT
C.G.
+3°
1-13/16" TO 2"
MESSERSCHMITT BF-109 (ME-109)
ENGINE COWL CAN BE BUILT UP WITH 1/4" & 1/2" BLOCKS, OR CARVED FROM ONE SOLID 2" X 2" X 3" BALSA BLOCK.
FOAM WING, ACCESSORIES, EQUIPMENT & HARDWARE SHOWN ARE AVAILABLE FROM:
ACE R/C INC.
HIGGINSVILLE, MO. 64037
NOTES:
1. STUDY ALL 3 DESIGNS FOR DATA PERTAINING TO EACH OF THEM.
2. DOUBLE POINTED ARROWS INDICATE DIRECTION OF WOOD GRAIN.
3. THE FOLLOWING DESIGN PARAMETERS ARE IMPORTANT FOR GOOD R/O PERFORMANCE: +3° ANGLE OF ATTACK; +2° STAB INCIDENCE; 4° RIGHT & 7° DOWN THRUST; 4° DIHEDRAL & C.G. AS SHOWN ON PLANS.
4. GOLDEN OR BABE BEE CAN BE MOUNTED UPRIGHT, SIDE MOUNTED OR INVERTED WITH EQUAL SUCCESS, HOWEVER NEEDLE VALVE TANK UNIT MUST REMAIN UPRIGHT.
5. ALL THREE DESIGNS WORK EQUALLY WELL WITH RUDDER ONLY & TORQUE ROD, R/O & PUSHROD, 2 CHANNEL ELEVATOR & RUDDER OR AILERONS.
WING SPAN 42" WING AREA 225 SQ.IN.
LENGTH 30" WEIGHT 17 OZ. R/O PULSE 22-28 OZ. 2 CHANNEL
MESSERSCHMITT ME-109/P-51 MUSTANG/ HAWKER HURRICANE (3 IN 1 DESIGN) FOR .049 PULSE RUDDER ONLY OR SMALL 2 CHANNEL
THE 'WARBIRDS'
DESIGNED & DRAWN BY
ROMEY BUKOLT
INKED BY
DICK KIDD
0 1 2 3 4 5 6