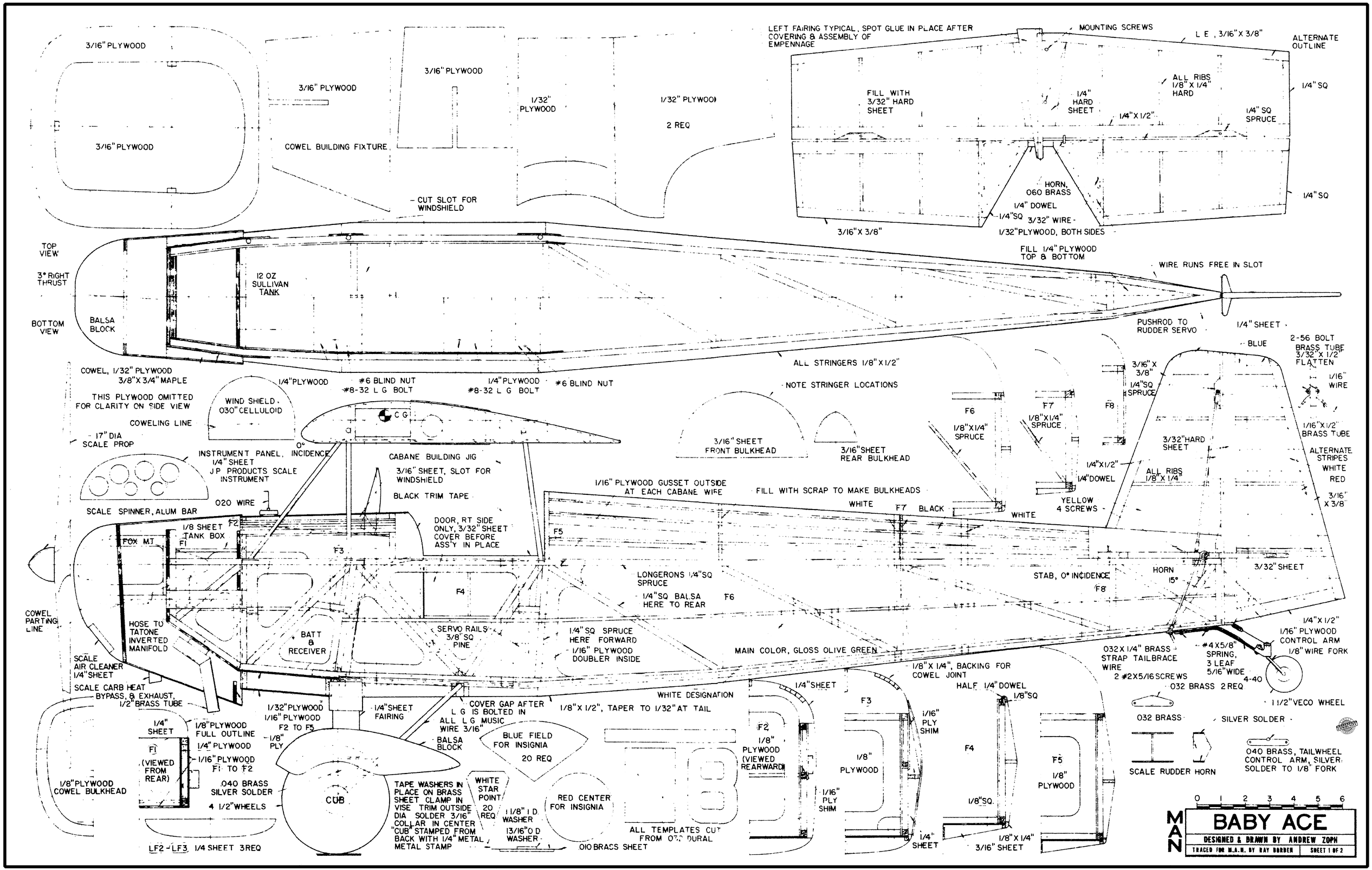
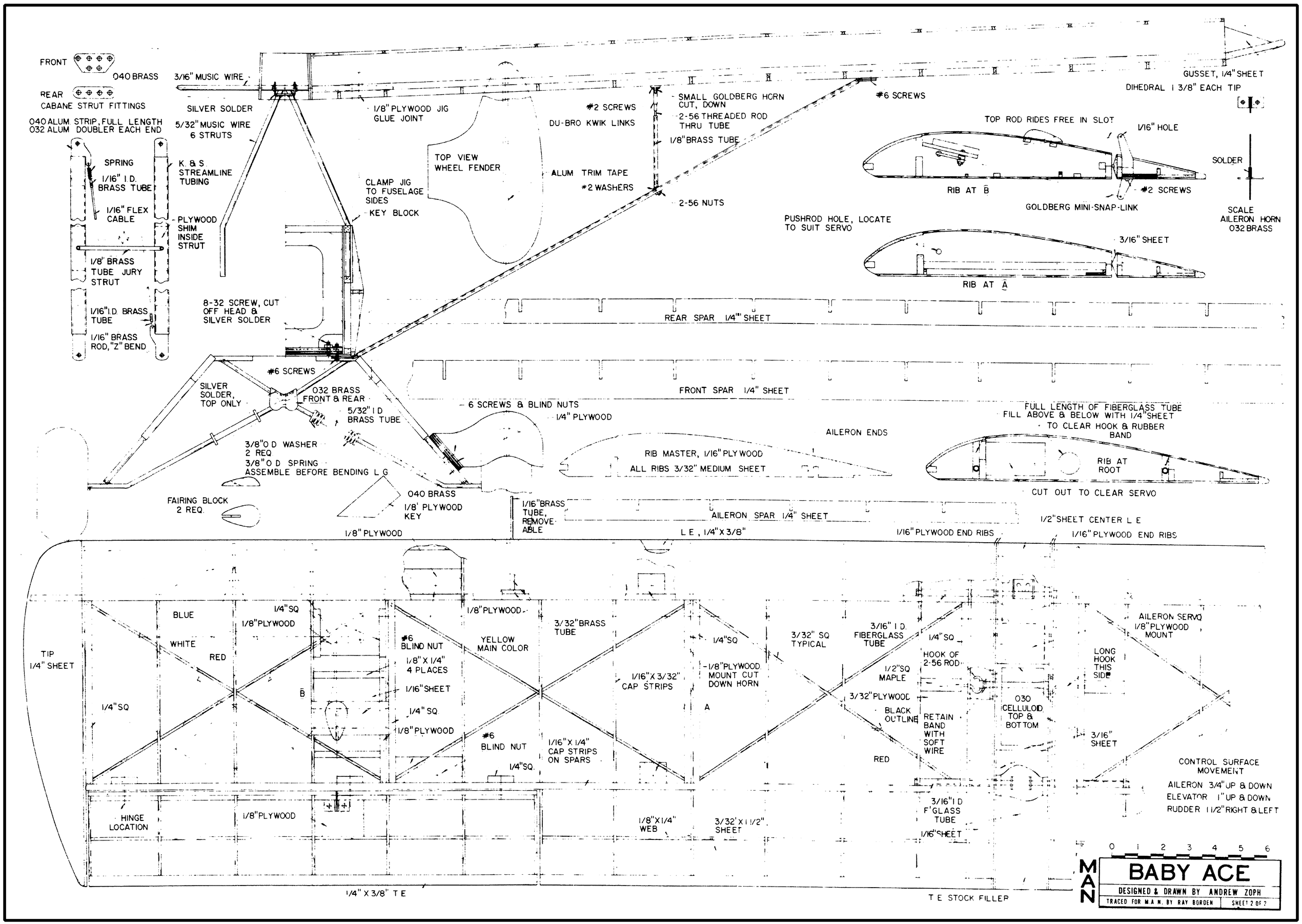

3/16" PLYWOOD
3/16" PLYWOOD
3/16" PLYWOOD
3/16" PLYWOOD
COWEL BUILDING FIXTURE
3/16" PLYWOOD
1/32" PLYWOOD
1/32" PLYWOOD
2 REQ
CUT SLOT FOR WINDSHIELD
LEFT FAIRING TYPICAL, SPOT GLUE IN PLACE AFTER COVERING & ASSEMBLY OF EMPENNAGE
MOUNTING SCREWS
L E, 3/16" X 3/8"
ALTERNATE OUTLINE
FILL WITH 3/32" HARD SHEET
1/4" HARD SHEET
1/4" X 1/2"
ALL RIBS 1/8" X 1/4" HARD
1/4" SQ
1/4" SQ SPRUCE
1/4" SQ
HORN, 060 BRASS
1/4" DOWEL
1/4" SQ
3/32" WIRE
1/32" PLYWOOD, BOTH SIDES
3/16" X 3/8"
FILL 1/4" PLYWOOD TOP & BOTTOM
WIRE RUNS FREE IN SLOT
TOP VIEW
3° RIGHT THRUST
12 OZ SULLIVAN TANK
BOTTOM VIEW
BALSA BLOCK
PUSHROD TO RUDDER SERVO
1/4" SHEET
BLUE
2-56 BOLT
BRASS TUBE 3/32" X 1/2" FLATTEN
1/16" WIRE
COWEL, 1/32" PLYWOOD 3/8" X 3/4" MAPLE
THIS PLYWOOD OMITTED FOR CLARITY ON SIDE VIEW
1/4" PLYWOOD
#6 BLIND NUT
#8-32 L G BOLT
1/4" PLYWOOD
#8-32 L G BOLT
#6 BLIND NUT
ALL STRINGERS 1/8" X 1/2"
NOTE STRINGER LOCATIONS
3/16" X 3/8"
1/4" SQ SPRUCE
WIND SHIELD, 030" CELLULOID
COWELING LINE
17" DIA SCALE PROP
C G
0° INCIDENCE
F6
1/8" X 1/4" SPRUCE
F7
1/8" X 1/4" SPRUCE
F8
3/16" SHEET FRONT BULKHEAD
3/16" SHEET REAR BULKHEAD
3/32" HARD SHEET
1/16" X 1/2" BRASS TUBE
ALTERNATE STRIPES
WHITE
RED
3/16" X 3/8"
INSTRUMENT PANEL, 1/4" SHEET
J P PRODUCTS SCALE INSTRUMENT
CABANE BUILDING JIG
3/16" SHEET, SLOT FOR WINDSHIELD
BLACK TRIM TAPE
1/4" X 1/2"
1/4" DOWEL
ALL RIBS 1/8" X 1/4"
1/16" PLYWOOD GUSSET OUTSIDE AT EACH CABANE WIRE
FILL WITH SCRAP TO MAKE BULKHEADS
WHITE
F7
BLACK
WHITE
YELLOW 4 SCREWS
020 WIRE
SCALE SPINNER, ALUM BAR
F2
1/8 SHEET TANK BOX
F1
FOX MT
F3
DOOR, RT SIDE ONLY, 3/32" SHEET COVER BEFORE ASS'Y IN PLACE
F5
LONGERONS 1/4" SQ SPRUCE
1/4" SQ BALSA HERE TO REAR
F6
STAB, 0° INCIDENCE
F8
HORN 15°
3/32" SHEET
F4
COWEL PARTING LINE
HOSE TO TATONE INVERTED MANIFOLD
BATT & RECEIVER
SERVO RAILS 3/8" SQ PINE
1/4" SQ SPRUCE HERE FORWARD
1/16" PLYWOOD DOUBLER INSIDE
MAIN COLOR, GLOSS OLIVE GREEN
1/4" X 1/2"
1/16" PLYWOOD CONTROL ARM
1/8" WIRE FORK
032 X 1/4" BRASS STRAP TAILBRACE WIRE
2 #2 X 5/16 SCREWS
#4 X 5/8" SPRING, 3 LEAF 5/16" WIDE
4-40
SCALE AIR CLEANER 1/4" SHEET
1/8" X 1/4", BACKING FOR COWEL JOINT
HALF 1/4" DOWEL
1/8" SQ
032 BRASS 2 REQ
SCALE CARB HEAT BYPASS, & EXHAUST, 1/2" BRASS TUBE
1/4" SHEET
WHITE DESIGNATION
1 1/2" VECO WHEEL
1/32" PLYWOOD
1/16" PLYWOOD
F2 TO F5
1/4" SHEET FAIRING
COVER GAP AFTER L G IS BOLTED IN
ALL L G MUSIC WIRE 3/16"
1/8" X 1/2", TAPER TO 1/32" AT TAIL
F3
1/16" PLY SHIM
032 BRASS
SILVER SOLDER
1/4" SHEET
1/8" PLYWOOD FULL OUTLINE
1/8" PLY
BALSA BLOCK
BLUE FIELD FOR INSIGNIA
20 REQ
F2
1/8" PLYWOOD (VIEWED REARWARD)
1/8" PLYWOOD
F4
F5
1/8" PLYWOOD
040 BRASS, TAILWHEEL CONTROL ARM, SILVER SOLDER TO 1/8" FORK
F1
(VIEWED FROM REAR)
1/4" PLYWOOD
1/16" PLYWOOD F1 TO F2
SCALE RUDDER HORN
1/8" PLYWOOD COWEL BULKHEAD
.040 BRASS SILVER SOLDER
4 1/2" WHEELS
CUB
TAPE WASHERS IN PLACE ON BRASS SHEET CLAMP IN VISE TRIM OUTSIDE DIA SOLDER 3/16" COLLAR IN CENTER "CUB" STAMPED FROM BACK WITH 1/4" METAL METAL STAMP
WHITE STAR POINT 20 REQ
1 1/8" I D WASHER
13/16" O D WASHER
RED CENTER FOR INSIGNIA
ALL TEMPLATES CUT FROM 020 DURAL
.010 BRASS SHEET
1/16" PLY SHIM
1/8" SQ
1/4" SHEET
1/8" X 1/4"
3/16" SHEET
LF2 - LF3, 1/4 SHEET 3 REQ
0 1 2 3 4 5 6
MAN
BABY ACE
DESIGNED & DRAWN BY ANDREW ZOPH
TRACED FOR M.A.N. BY RAY BORDER
SHEET 1 OF 2


FRONT
REAR
CABANE STRUT FITTINGS
040 BRASS
3/16" MUSIC WIRE
SILVER SOLDER
5/32" MUSIC WIRE 6 STRUTS
040 ALUM STRIP, FULL LENGTH
032 ALUM DOUBLER EACH END
SPRING
1/16" I.D. BRASS TUBE
1/16" FLEX CABLE
K. & S. STREAMLINE TUBING
PLYWOOD SHIM INSIDE STRUT
1/8" BRASS TUBE JURY STRUT
1/16" I.D. BRASS TUBE
1/16" BRASS ROD, "Z" BEND
8-32 SCREW, CUT OFF HEAD & SILVER SOLDER
1/8" PLYWOOD JIG GLUE JOINT
TOP VIEW WHEEL FENDER
CLAMP JIG TO FUSELAGE SIDES
KEY BLOCK
#2 SCREWS
DU-BRO KWIK LINKS
ALUM TRIM TAPE
#2 WASHERS
SMALL GOLDBERG HORN CUT, DOWN
2-56 THREADED ROD THRU TUBE
1/8" BRASS TUBE
2-56 NUTS
#6 SCREWS
GUSSET, 1/4" SHEET
DIHEDRAL 1 3/8" EACH TIP
TOP ROD RIDES FREE IN SLOT
1/16" HOLE
RIB AT B
#2 SCREWS
GOLDBERG MINI-SNAP-LINK
SOLDER
SCALE AILERON HORN 032 BRASS
PUSHROD HOLE, LOCATE TO SUIT SERVO
3/16" SHEET
RIB AT A
REAR SPAR 1/4" SHEET
FRONT SPAR 1/4" SHEET
#6 SCREWS
SILVER SOLDER, TOP ONLY
032 BRASS FRONT & REAR
5/32" I D BRASS TUBE
3/8" O D WASHER 2 REQ
3/8" O D SPRING ASSEMBLE BEFORE BENDING L G
FAIRING BLOCK 2 REQ.
6 SCREWS & BLIND NUTS
1/4" PLYWOOD
040 BRASS
1/8" PLYWOOD KEY
1/8" PLYWOOD
1/16" BRASS TUBE, REMOVEABLE
AILERON SPAR 1/4" SHEET
L E, 1/4" X 3/8"
AILERON ENDS
RIB MASTER, 1/16" PLYWOOD
ALL RIBS 3/32" MEDIUM SHEET
FULL LENGTH OF FIBERGLASS TUBE
FILL ABOVE & BELOW WITH 1/4" SHEET
TO CLEAR HOOK & RUBBER BAND
RIB AT ROOT
CUT OUT TO CLEAR SERVO
1/2" SHEET CENTER L E
1/16" PLYWOOD END RIBS
1/16" PLYWOOD END RIBS
TIP 1/4" SHEET
BLUE
WHITE
RED
1/4" SQ
1/8" PLYWOOD
1/4" SQ
B
#6 BLIND NUT
1/8" X 1/4" 4 PLACES
1/16" SHEET
1/4" SQ
1/8" PLYWOOD
1/8" PLYWOOD
YELLOW MAIN COLOR
#6 BLIND NUT
1/4" SQ
3/32" BRASS TUBE
1/16" X 1/4" CAP STRIPS ON SPARS
1/16" X 3/32" CAP STRIPS
1/4" SQ
1/8" PLYWOOD MOUNT CUT DOWN HORN
A
3/32" SQ TYPICAL
3/16" I D FIBERGLASS TUBE
1/4" SQ
HOOK OF 2-56 ROD
1/2" SQ MAPLE
3/32" PLYWOOD
BLACK OUTLINE
RETAIN BAND WITH SOFT WIRE
RED
030 CELLULOID TOP & BOTTOM
AILERON SERVO 1/8" PLYWOOD MOUNT
LONG HOOK THIS SIDE
3/16" SHEET
CONTROL SURFACE MOVEMENT
AILERON 3/4" UP & DOWN
ELEVATOR 1" UP & DOWN
RUDDER 1 1/2" RIGHT & LEFT
HINGE LOCATION
1/8" PLYWOOD
1/8" X 1/4" WEB
3/32" X 1 1/2" SHEET
3/16" I D F'GLASS TUBE
1/16" SHEET
1/4" X 3/8" T E
T E STOCK FILLER
0 1 2 3 4 5 6
MAN
BABY ACE
DESIGNED & DRAWN BY ANDREW ZOPH
TRACED FOR M.A.N. BY RAY BORDEN
SHEET 2 OF 2