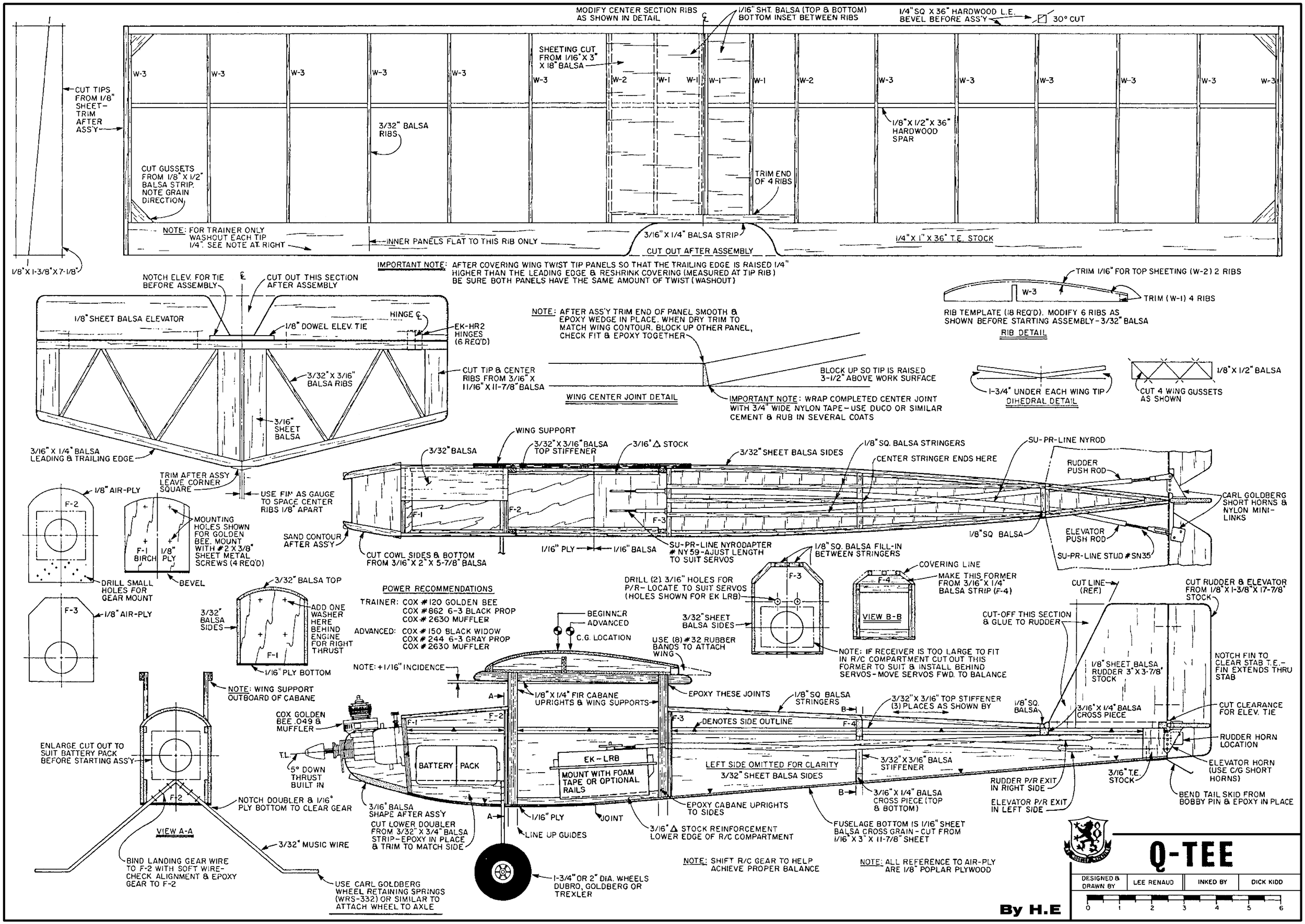
MODIFY CENTER SECTION RIBS AS SHOWN IN DETAIL
1/16" SHT. BALSA (TOP & BOTTOM) BOTTOM INSET BETWEEN RIBS
1/4" SQ X 36" HARDWOOD L.E. BEVEL BEFORE ASS'Y
30° CUT
CUT TIPS FROM 1/8" SHEET - TRIM AFTER ASS'Y
SHEETING CUT FROM 1/16" X 3" X 18" BALSA
W-3
W-2
W-1
3/32" BALSA RIBS
1/8" X 1/2" X 36" HARDWOOD SPAR
CUT GUSSETS FROM 1/8" X 1/2" BALSA STRIP. NOTE GRAIN DIRECTION
TRIM END OF 4 RIBS
NOTE: FOR TRAINER ONLY WASHOUT EACH TIP 1/4". SEE NOTE AT RIGHT
INNER PANELS FLAT TO THIS RIB ONLY
3/16" X 1/4" BALSA STRIP
CUT OUT AFTER ASSEMBLY
1/4" X 1" X 36" T.E. STOCK
1/8" X 1-3/8" X 7-1/8"
IMPORTANT NOTE: AFTER COVERING WING TWIST TIP PANELS SO THAT THE TRAILING EDGE IS RAISED 1/4" HIGHER THAN THE LEADING EDGE & RESHRINK COVERING (MEASURED AT TIP RIB) BE SURE BOTH PANELS HAVE THE SAME AMOUNT OF TWIST (WASHOUT)
TRIM 1/16" FOR TOP SHEETING (W-2) 2 RIBS
TRIM (W-1) 4 RIBS
RIB TEMPLATE (18 REQ'D). MODIFY 6 RIBS AS SHOWN BEFORE STARTING ASSEMBLY - 3/32" BALSA
RIB DETAIL
NOTCH ELEV. FOR TIE BEFORE ASSEMBLY
CUT OUT THIS SECTION AFTER ASSEMBLY
1/8" SHEET BALSA ELEVATOR
HINGE
1/8" DOWEL ELEV. TIE
EK-HR2 HINGES (6 REQ'D)
3/32" X 3/16" BALSA RIBS
CUT TIP & CENTER RIBS FROM 3/16" X 11/16" X 11-7/8" BALSA
3/16" SHEET BALSA
3/16" X 1/4" BALSA LEADING & TRAILING EDGE
NOTE: AFTER ASS'Y TRIM END OF PANEL SMOOTH & EPOXY WEDGE IN PLACE. WHEN DRY TRIM TO MATCH WING CONTOUR. BLOCK UP OTHER PANEL, CHECK FIT & EPOXY TOGETHER
BLOCK UP SO TIP IS RAISED 3-1/2" ABOVE WORK SURFACE
WING CENTER JOINT DETAIL
IMPORTANT NOTE: WRAP COMPLETED CENTER JOINT WITH 3/4" WIDE NYLON TAPE - USE DUCO OR SIMILAR CEMENT & RUB IN SEVERAL COATS
1-3/4" UNDER EACH WING TIP
DIHEDRAL DETAIL
1/8" X 1/2" BALSA
CUT 4 WING GUSSETS AS SHOWN
TRIM AFTER ASSY LEAVE CORNER SQUARE
USE FIN AS GAUGE TO SPACE CENTER RIBS 1/8" APART
1/8" AIR-PLY
F-2
F-1 BIRCH
1/8" PLY
MOUNTING HOLES SHOWN FOR GOLDEN BEE. MOUNT WITH #2 X 3/8" SHEET METAL SCREWS (4 REQ'D)
BEVEL
DRILL SMALL HOLES FOR GEAR MOUNT
F-3
1/8" AIR-PLY
WING SUPPORT
3/32" BALSA
3/32" X 3/16" BALSA TOP STIFFENER
3/16" Δ STOCK
3/32" SHEET BALSA SIDES
1/8" SQ. BALSA STRINGERS
CENTER STRINGER ENDS HERE
SU-PR-LINE NYROD
RUDDER PUSH ROD
CARL GOLDBERG SHORT HORNS & NYLON MINI-LINKS
SAND CONTOUR AFTER ASS'Y
CUT COWL SIDES & BOTTOM FROM 3/16" X 2" X 5-7/8" BALSA
1/16" PLY
1/16" BALSA
SU-PR-LINE NYRODAPTER # NY59 - AJUST LENGTH TO SUIT SERVOS
1/8" SQ BALSA
ELEVATOR PUSH ROD
SU-PR-LINE STUD # SN35
1/8" SQ. BALSA FILL-IN BETWEEN STRINGERS
DRILL (2) 3/16" HOLES FOR P/R - LOCATE TO SUIT SERVOS (HOLES SHOWN FOR EK LRB)
3/32" SHEET BALSA SIDES
COVERING LINE
MAKE THIS FORMER FROM 3/16" X 1/4" BALSA STRIP (F-4)
VIEW B-B
NOTE: IF RECEIVER IS TOO LARGE TO FIT IN R/C COMPARTMENT CUT OUT THIS FORMER TO SUIT & INSTALL BEHIND SERVOS - MOVE SERVOS FWD. TO BALANCE
CUT LINE (REF.)
CUT RUDDER & ELEVATOR FROM 1/8" X 1-3/8" X 17-7/8" STOCK
CUT-OFF THIS SECTION & GLUE TO RUDDER
3/32" BALSA TOP
3/32" BALSA SIDES
ADD ONE WASHER HERE BEHIND ENGINE FOR RIGHT THRUST
F-1
1/16" PLY BOTTOM
POWER RECOMMENDATIONS
TRAINER: COX #120 GOLDEN BEE
COX #862 6-3 BLACK PROP
COX # 2630 MUFFLER
ADVANCED: COX # 150 BLACK WIDOW
COX # 244 6-3 GRAY PROP
COX # 2630 MUFFLER
BEGINNER
ADVANCED
C.G. LOCATION
USE (8) #32 RUBBER BANDS TO ATTACH WING
NOTE: +1/16" INCIDENCE
NOTE: WING SUPPORT OUTBOARD OF CABANE
1/8" X 1/4" FIR CABANE UPRIGHTS & WING SUPPORTS
EPOXY THESE JOINTS
1/8" SQ. BALSA STRINGERS
3/32" X 3/16" TOP STIFFENER (3) PLACES AS SHOWN BY
1/8" SQ. BALSA
3/16" X 1/4" BALSA CROSS PIECE
1/8" SHEET BALSA RUDDER 3" X 3-7/8" STOCK
NOTCH FIN TO CLEAR STAB T.E. - FIN EXTENDS THRU STAB
CUT CLEARANCE FOR ELEV. TIE
COX GOLDEN BEE .049 & MUFFLER
DENOTES SIDE OUTLINE
F-4
RUDDER HORN LOCATION
ENLARGE CUT OUT TO SUIT BATTERY PACK BEFORE STARTING ASS'Y
T.L.
5° DOWN THRUST BUILT IN
BATTERY PACK
EK-LRB
MOUNT WITH FOAM TAPE OR OPTIONAL RAILS
LEFT SIDE OMITTED FOR CLARITY
3/32" SHEET BALSA SIDES
3/32" X 3/16" BALSA STIFFENER
3/16" T.E. STOCK
ELEVATOR HORN (USE C/G SHORT HORNS)
RUDDER P/R EXIT IN RIGHT SIDE
ELEVATOR P/R EXIT IN LEFT SIDE
BEND TAIL SKID FROM BOBBY PIN & EPOXY IN PLACE
NOTCH DOUBLER & 1/16" PLY BOTTOM TO CLEAR GEAR
3/16" BALSA SHAPE AFTER ASS'Y
CUT LOWER DOUBLER FROM 3/32" X 3/4" BALSA STRIP - EPOXY IN PLACE & TRIM TO MATCH SIDE
1/16" PLY
JOINT
LINE UP GUIDES
EPOXY CABANE UPRIGHTS TO SIDES
3/16" Δ STOCK REINFORCEMENT LOWER EDGE OF R/C COMPARTMENT
3/16" X 1/4" BALSA CROSS PIECE (TOP & BOTTOM)
FUSELAGE BOTTOM IS 1/16" SHEET BALSA CROSS GRAIN - CUT FROM 1/16" X 3" X 11-7/8" SHEET
VIEW A-A
3/32" MUSIC WIRE
BIND LANDING GEAR WIRE TO F-2 WITH SOFT WIRE - CHECK ALIGNMENT & EPOXY GEAR TO F-2
USE CARL GOLDBERG WHEEL RETAINING SPRINGS (WRS-332) OR SIMILAR TO ATTACH WHEEL TO AXLE
1-3/4" OR 2" DIA. WHEELS DUBRO, GOLDBERG OR TREXLER
NOTE: SHIFT R/C GEAR TO HELP ACHIEVE PROPER BALANCE
NOTE: ALL REFERENCE TO AIR-PLY ARE 1/8" POPLAR PLYWOOD
By H.E
Q-TEE
DESIGNED & DRAWN BY
LEE RENAUD
INKED BY
DICK KIDD
0 1 2 3 4 5 6