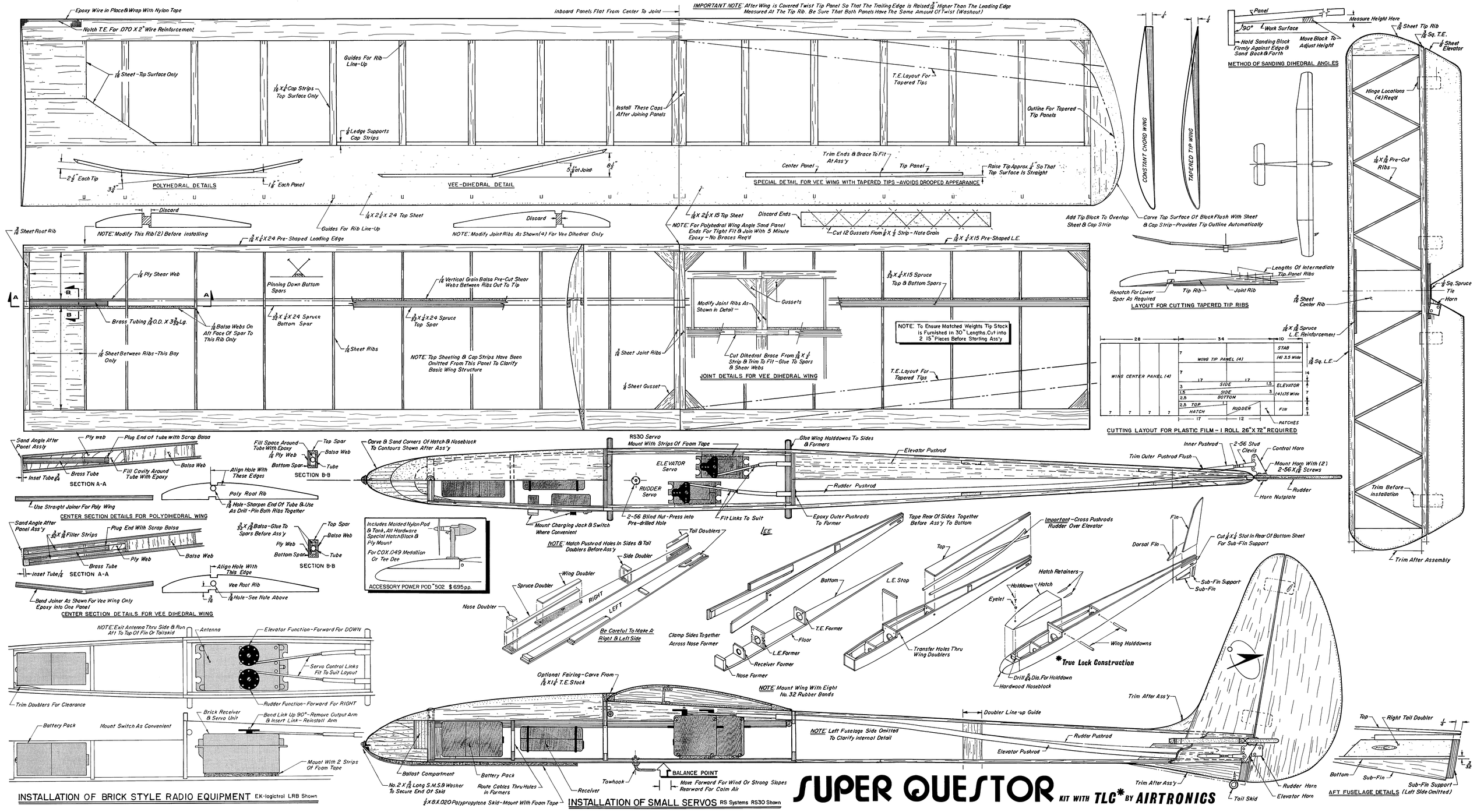
Epoxy Wire In Place & Wrap With Nylon Tape
Notch T.E. For .070 X 2" Wire Reinforcement
Inboard Panels Flat From Center To Joint
IMPORTANT NOTE: After Wing is Covered Twist Tip Panel So That The Trailing Edge Is Raised 3/16" Higher Than The Leading Edge Measured At The Tip Rib. Be Sure That Both Panels Have The Same Amount Of Twist (Washout)
1/16 Sheet - Top Surface Only
1/16 X 1/4 Cap Strips Top Surface Only
Guides For Rib Line-Up
1/4 Ledge Supports Cap Strips
Install These Caps After Joining Panels
T.E. Layout For Tapered Tips
Outline For Tapered Tip Panels
2 1/2" Each Tip
3 3/4"
1 1/8" Each Panel
POLYHEDRAL DETAILS
5 3/4" at Joint
8 1/4"
VEE-DIHEDRAL DETAIL
Trim Ends & Brace To Fit At Ass'y
Center Panel
Tip Panel
Raise Tip Approx. 1/4" So That Top Surface Is Straight
SPECIAL DETAIL FOR VEE WING WITH TAPERED TIPS - AVOIDS DROOPED APPEARANCE
CONSTANT CHORD WING
TAPERED TIP WING
Panel
90°
Work Surface
Hold Sanding Block Firmly Against Edge & Sand Back & Forth
Move Block To Adjust Height
Measure Height Here
METHOD OF SANDING DIHEDRAL ANGLES
3/8 Sheet Tip Rib
1/8 Sq. T.E.
1/4 Sheet Elevator
Hinge Locations (4) Req'd
1/16 X 3/8 Pre-Cut Ribs
Discard
NOTE: Modify This Rib (2) Before Installing
3/8 Sheet Root Rib
1/16 X 2 1/4 X 24 Top Sheet
Guides For Rib Line-Up
Discard
NOTE: Modify Joint Ribs As Shown (4) For Vee Dihedral Only
1/16 X 2 1/4 X 15 Top Sheet
NOTE: For Polyhedral Wing Angle Sand Panel Ends For Tight Fit & Join With 5 Minute Epoxy - No Braces Req'd
Discard Ends
Cut 12 Gussets From 1/4 X 1/2 Strip - Note Grain
Add Tip Block To Overlap Sheet & Cap Strip
Carve Top Surface Of Block Flush With Sheet & Cap Strip - Provides Tip Outline Automatically
1/16 X 1/4 X 15 Pre-Shaped L.E.
1/16 X 1/4 X 24 Pre-Shaped Leading Edge
1/16 Ply Shear Web
Pinning Down Bottom Spars
1/16 Vertical Grain Balsa Pre-Cut Shear Webs Between Ribs Out To Tip
3/32 X 1/4 X 15 Spruce Top & Bottom Spars
Lengths Of Intermediate Tip Panel Ribs
Renotch For Lower Spar As Required
Tip Rib
Joint Rib
LAYOUT FOR CUTTING TAPERED TIP RIBS
3/16 Sheet Center Rib
1/8 Sq. Spruce Tie
Horn
Brass Tubing 1/8" O.D. X 3 3/32" Lg.
1/16 Balsa Webs On Aft Face Of Spar To This Rib Only
3/32 X 1/4 X 24 Spruce Bottom Spar
3/32 X 1/4 X 24 Spruce Top Spar
1/16 Sheet Ribs
1/16 Sheet Between Ribs - This Bay Only
NOTE: Top Sheeting & Cap Strips Have Been Omitted From This Panel To Clarify Basic Wing Structure
1/8 Sheet Joint Ribs
Modify Joint Ribs As Shown In Detail
Gussets
Cut Dihedral Brace From 3/16 X 1/4 Strip & Trim To Fit - Glue To Spars & Shear Webs
JOINT DETAILS FOR VEE DIHEDRAL WING
1/8 Sheet Gusset
NOTE: To Ensure Matched Weights Tip Stock is Furnished In 30" Lengths. Cut into 2 15" Pieces Before Starting Ass'y
T.E. Layout For Tapered Tips
1/16 X 1/8 Spruce L.E. Reinforcement
1/8 Sq. L.E.
WING CENTER PANEL (4)
WING TIP PANEL (4)
STAB
(4) 3.5 Wide
SIDE
ELEVATOR
(4) 1.75 Wide
BOTTOM
TOP
HATCH
RUDDER
FIN
PATCHES
CUTTING LAYOUT FOR PLASTIC FILM - 1 ROLL 26" X 72" REQUIRED
Sand Angle After Panel Ass'y
Ply web
Plug End of Tube with Scrap Balsa
Balsa Web
Inset Tube 3/8
Brass Tube
Fill Cavity Around Tube With Epoxy
SECTION A-A
Use Straight Joiner For Poly Wing
Align Hole With These Edges
Poly Root Rib
3/16 Hole - Sharpen End Of Tube & Use As Drill - Pin Both Ribs Together
CENTER SECTION DETAILS FOR POLYDIHEDRAL WING
Fill Space Around Tube With Epoxy
1/16 Ply Web
Bottom Spar
Top Spar
Balsa Web
Tube
SECTION B-B
Carve & Sand Corners Of Hatch & Noseblock To Contours Shown After Ass'y
RS30 Servo Mount With Strips Of Foam Tape
Glue Wing Holddowns To Sides & Formers
Elevator Pushrod
ELEVATOR Servo
RUDDER Servo
Rudder Pushrod
Inner Pushrod
2-56 Stud
Clevis
Control Horn
Trim Outer Pushrod Flush
Mount Horn With (2) 2-56 X 1/8 Screws
Rudder
Horn Nutplate
Trim Before Installation
Trim After Assembly
Sand Angle After Panel Ass'y
3/32 X 3/8 Filler Strips
Plug End With Scrap Balsa
Ply Web
Balsa Web
Brass Tube
Inset Tube 1/8
SECTION A-A
Bend Joiner As Shown For Vee Wing Only Epoxy Into One Panel
Align Hole With This Edge
Vee Root Rib
3/16
1/16 Hole - See Note Above
CENTER SECTION DETAILS FOR VEE DIHEDRAL WING
3/32 X 3/8 Balsa - Glue To Spars Before Ass'y
Ply Web
Bottom Spar
Top Spar
Balsa Web
Tube
SECTION B-B
Includes Molded Nylon Pod & Tank, All Hardware Special Hatch Block & Ply Mount
For COX .049 Medallion Or Tee Dee
ACCESSORY POWER POD #502 $6.95 p.p.
Mount Charging Jack & Switch Where Convenient
2-56 Blind Nut - Press Into Pre-drilled Hole
Fit Links To Suit
Epoxy Outer Pushrods To Former
Tape Rear Of Sides Together Before Ass'y To Bottom
NOTE: Match Pushrod Holes In Sides & Tail Doublers Before Ass'y
Tail Doublers
Side Doubler
Wing Doubler
Spruce Doubler
Nose Doubler
RIGHT
LEFT
Be Careful To Make A Right & Left Side
Clamp Sides Together Across Nose Former
Bottom
T.E. Former
Floor
L.E. Former
Receiver Former
Nose Former
L.E. Stop
Top
Transfer Holes Thru Wing Doublers
NOTE: Mount Wing With Eight No. 32 Rubber Bands
Important - Cross Pushrods Rudder Over Elevator
Fin
Dorsal Fin
Cut 1/4 X 1/4 Slot In Rear Of Bottom Sheet For Sub-Fin Support
Hatch Retainers
Holddown
Hatch
Eyelet
Sub-Fin Support
Sub-Fin
Wing Holddowns
* True Lock Construction
Drill 3/16 Dia. For Holddown
Hardwood Noseblock
Trim After Ass'y
Trim After Ass'y
Rudder Horn
Elevator Horn
Tail Skid
NOTE: Exit Antenna Thru Side & Run Aft To Top Of Fin Or Tailskid
Antenna
Elevator Function - Forward For DOWN
Servo Control Links Fit To Suit Layout
Trim Doublers For Clearance
Rudder Function - Forward For RIGHT
Battery Pack
Mount Switch As Convenient
Brick Receiver & Servo Unit
Bend Link Up 90° - Remove Output Arm & Insert Link - Reinstall Arm
Mount With 2 Strips Of Foam Tape
INSTALLATION OF BRICK STYLE RADIO EQUIPMENT EK-logictrol LRB Shown
Optional Fairing - Carve From 1/8 X 1 1/4 T.E. Stock
Doubler Line-up Guide
NOTE: Left Fuselage Side Omitted To Clarify Internal Detail
Rudder Pushrod
Elevator Pushrod
Ballast Compartment
Battery Pack
Route Cables Thru Holes In Formers
Receiver
Towhook
BALANCE POINT
Move Forward For Wind Or Strong Slopes Rearward For Calm Air
No. 2 X 3/16 Long S.M.S.B Washer To Secure End Of Skid
1/4 X 8 X .020 Polypropylene Skid - Mount With Foam Tape
INSTALLATION OF SMALL SERVOS RS Systems RS30 Shown
Top
Right Tail Doubler
Bottom
Sub-Fin
Sub-Fin Support
AFT FUSELAGE DETAILS (Left Side Omitted)
SUPER QUESTOR KIT WITH TLC* BY AIRTRONICS