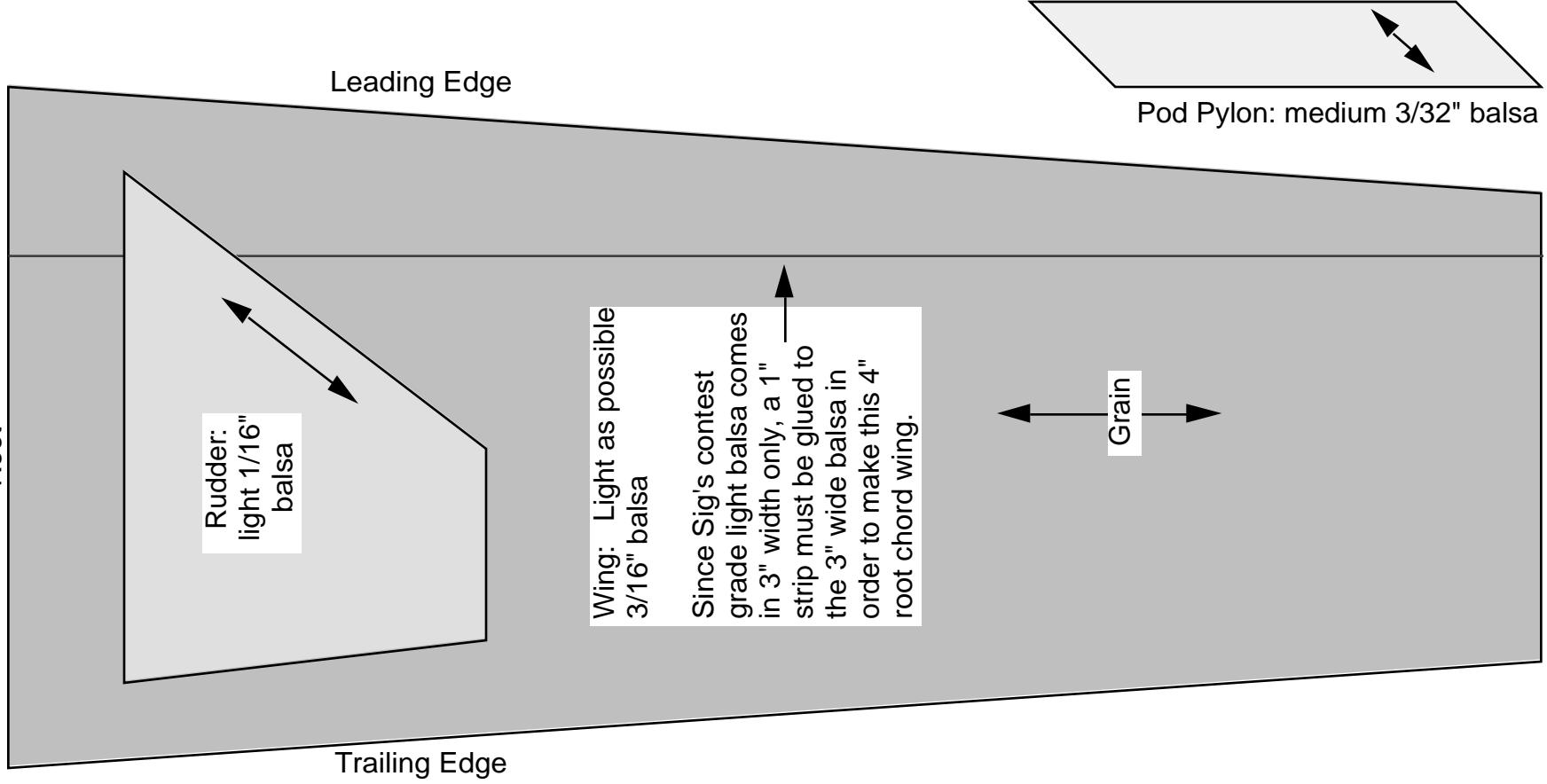
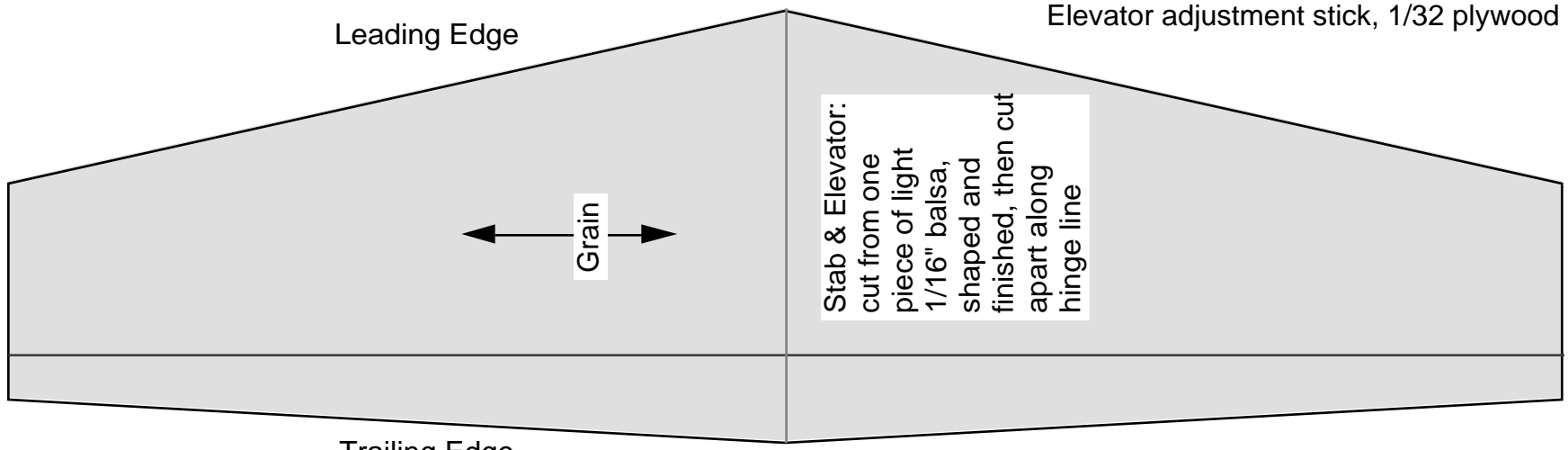
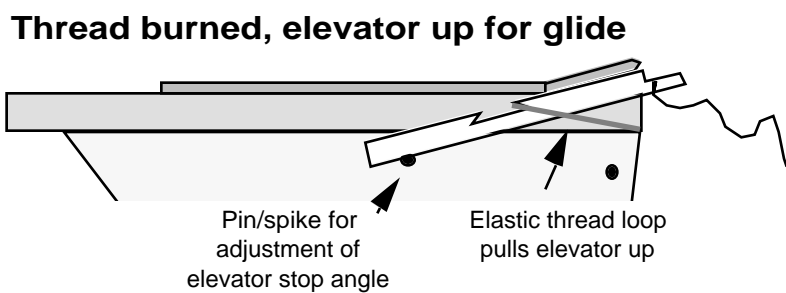
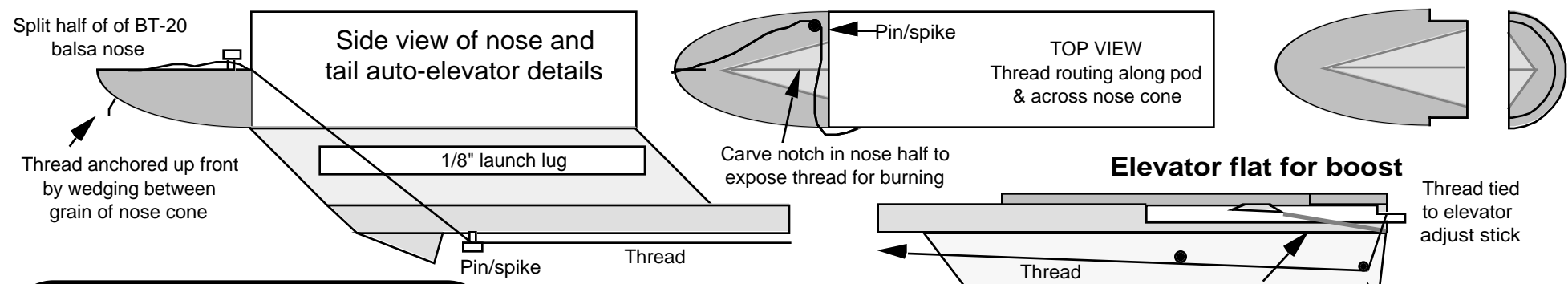


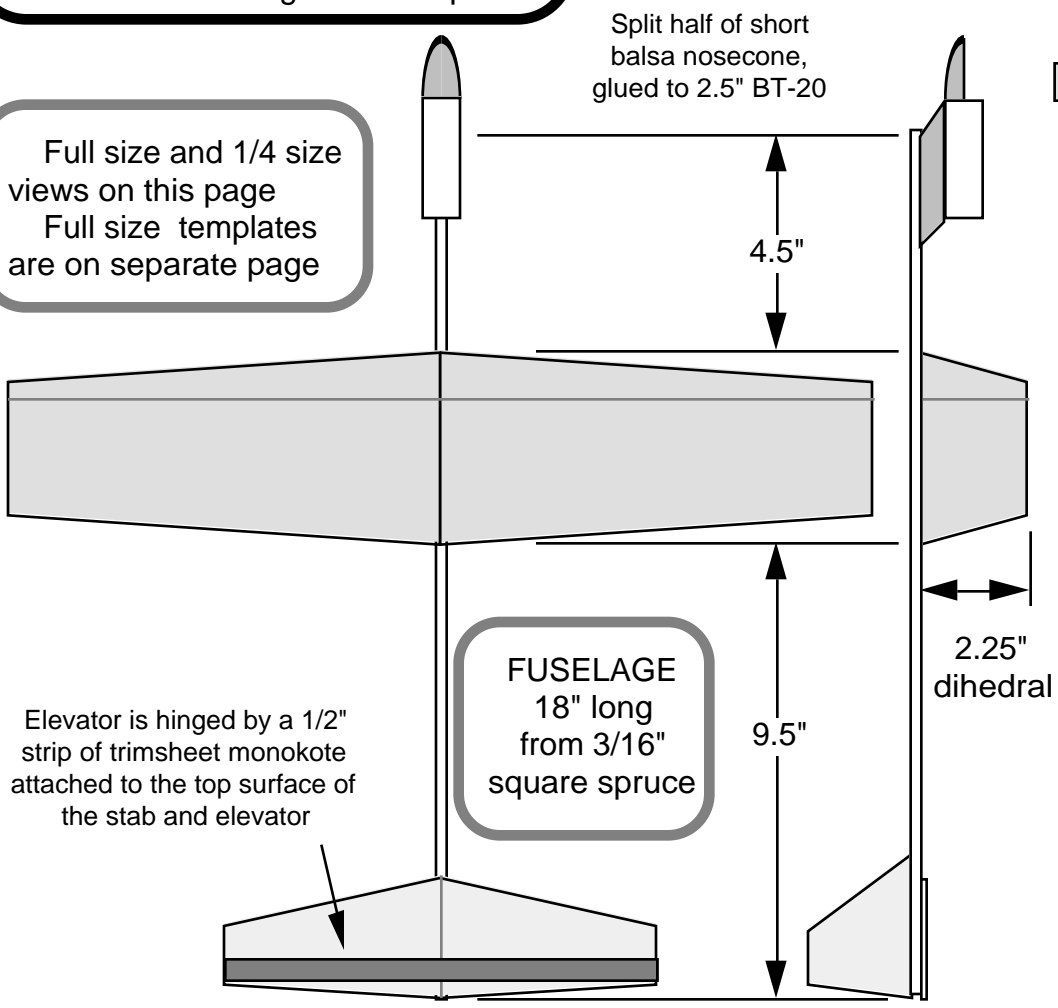
Xebec-B4 Rocket Glider Full Size Templates





Xebec-B4 Rocket Glider
 (Version 1.0 - 4/28/88)
 Auto-Elevator design for B4-2 power

Full size and 1/4 size views on this page
 Full size templates are on separate page



Design notes: Take special care to find as lightweight 3/16" balsa for the wing as possible. Even Sig light contest grade balsa varies a lot, pick out the lightest. Sand wing to a good airfoil, the better the airfoil the better the flight performance.

This model uses a movable elevator to change from boost trim to glide trim. An elastic thread holds the elevator down at the tail, the other end of the thread brought up across the split half nose cone. At ejection, the thread across the nose burns through, allowing the elevator to pop up to the pre-set angle for glide

The elevator should be flat for boost . If model pitches too much nose down on test flights, modify elevator boost angle slightly up (very little change will probably be needed). If model pitches nose-up on boost, elevator is not flat enough or the stab and wing are not perfectly straight (zero-zero incidence).

Some minor boost problems can be evened out if the model rolls on boost. Roll trim affects glide of course. Suggest warping the rudder right for right turn, and warp right wingtip trailing edge down to keep the turn from tightening into a spiral dive. The result should be a decent right glide turn and a spiral right barrel roll on boost