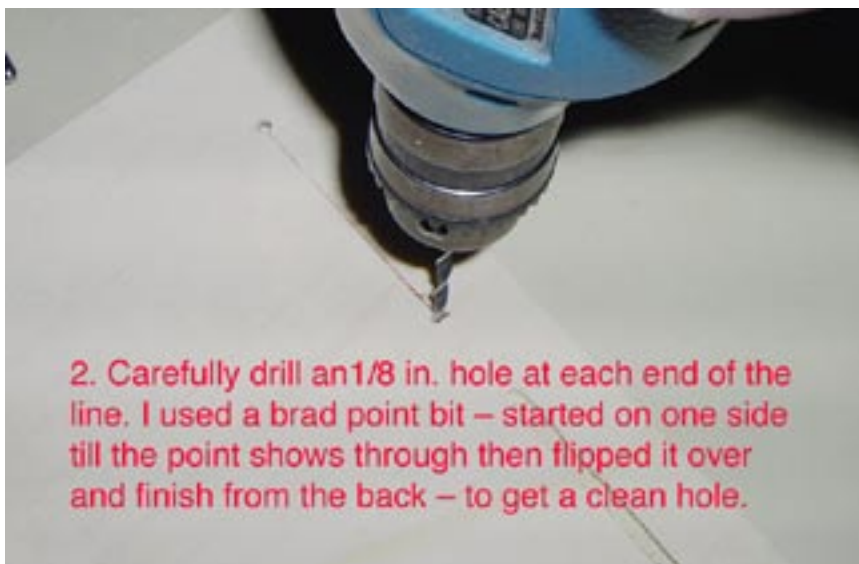
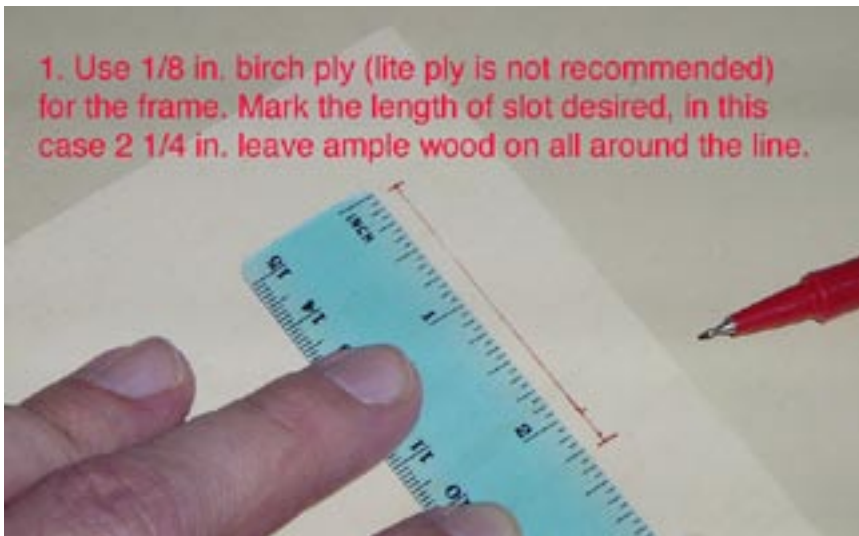


## Make-it-yourself adjustable leadouts – step by step- Part 1

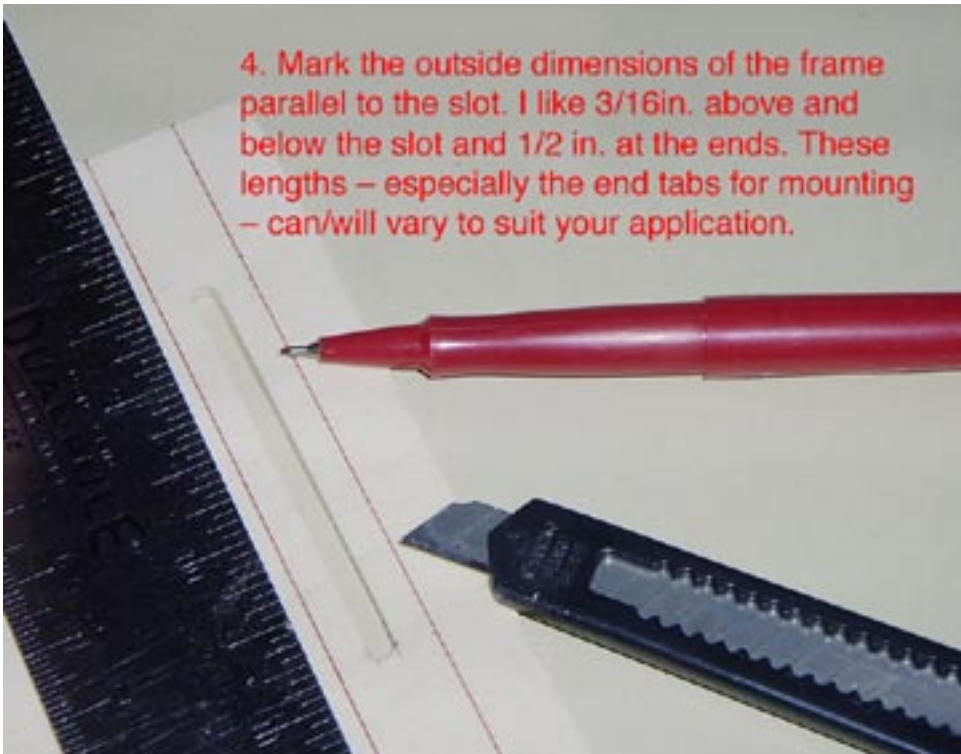
The following is a step by step process I use to make my own adjustable leadout guides. This has worked very well for me. It's not too difficult, and if you have all the necessary parts it can be done in an hour (a bit less if you've done one before). The last one I built weighs around 6 grams, less than a 1/4 ounce. It will be used in the Ki-84. I hope this will be helpful.

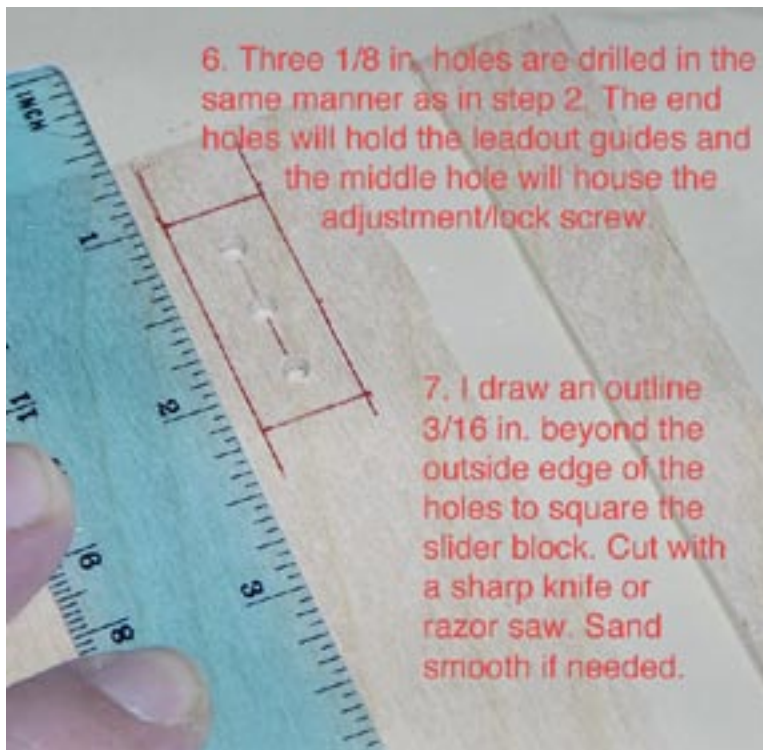
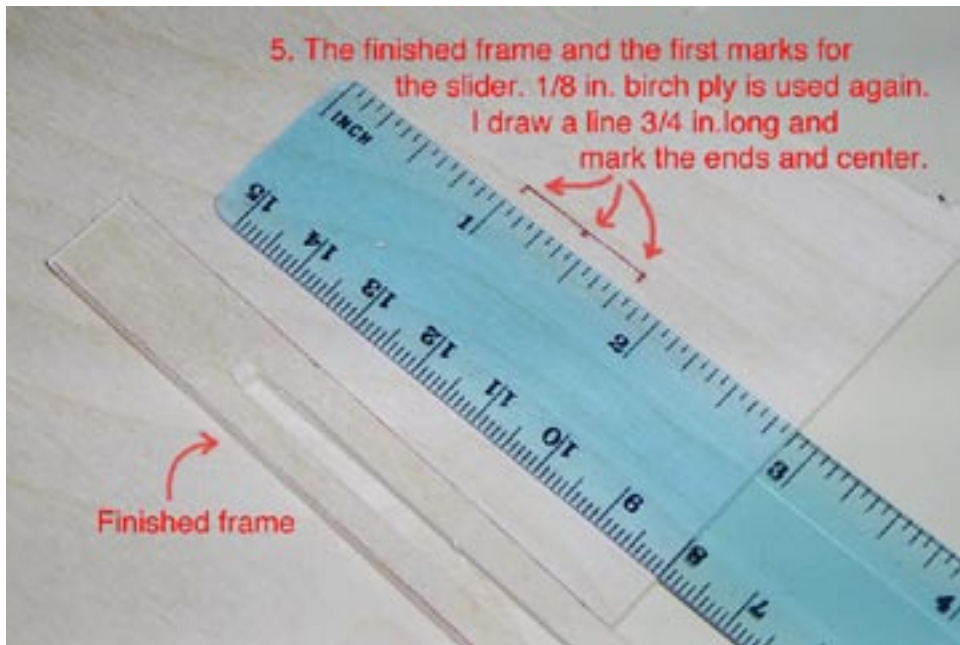


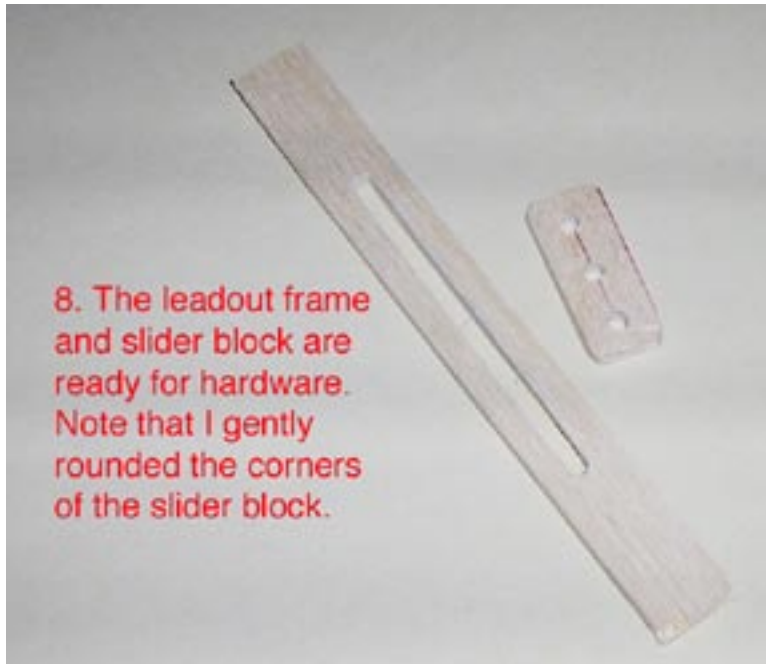
3. With a sharp knife and a good straight edge align the bottoms and tops of the holes and cut the wood out between them to leave an 1/8 in. slot. Many light passes from both sides should work best. Sand with 220 paper as necessary to smooth slot.



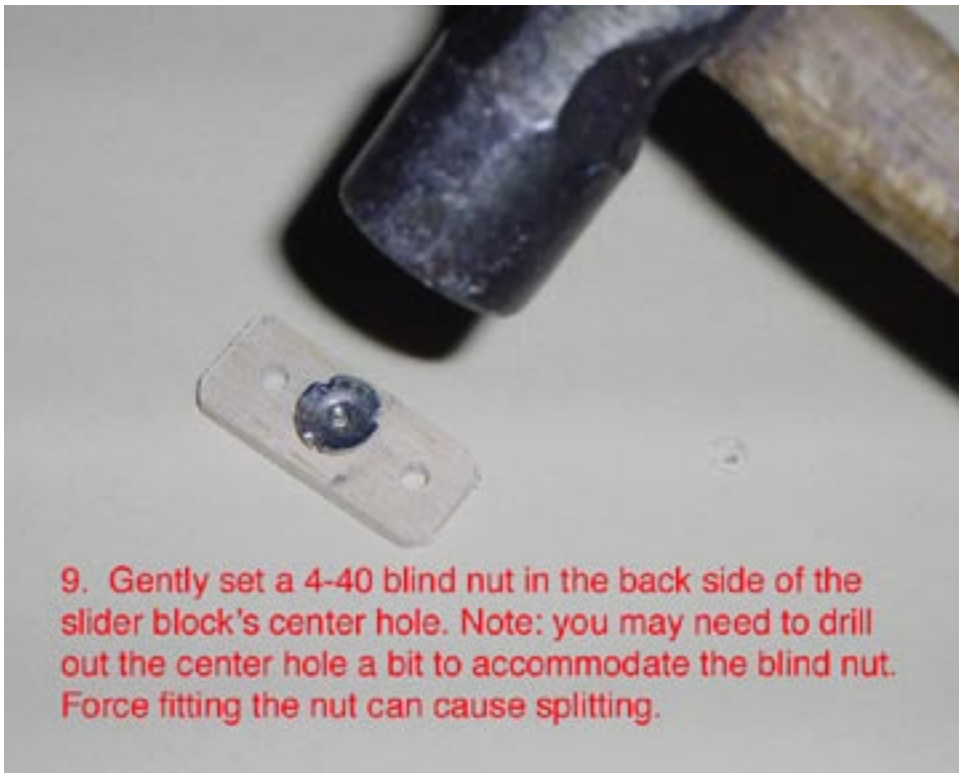
4. Mark the outside dimensions of the frame parallel to the slot. I like 3/16in. above and below the slot and 1/2 in. at the ends. These lengths – especially the end tabs for mounting – can/will vary to suit your application.





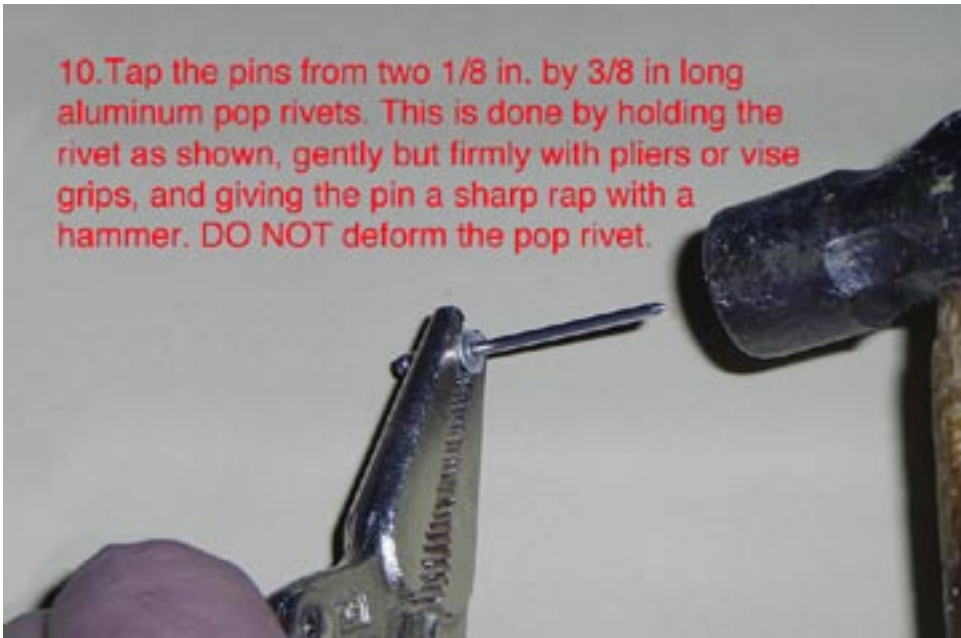


8. The leadout frame and slider block are ready for hardware. Note that I gently rounded the corners of the slider block.



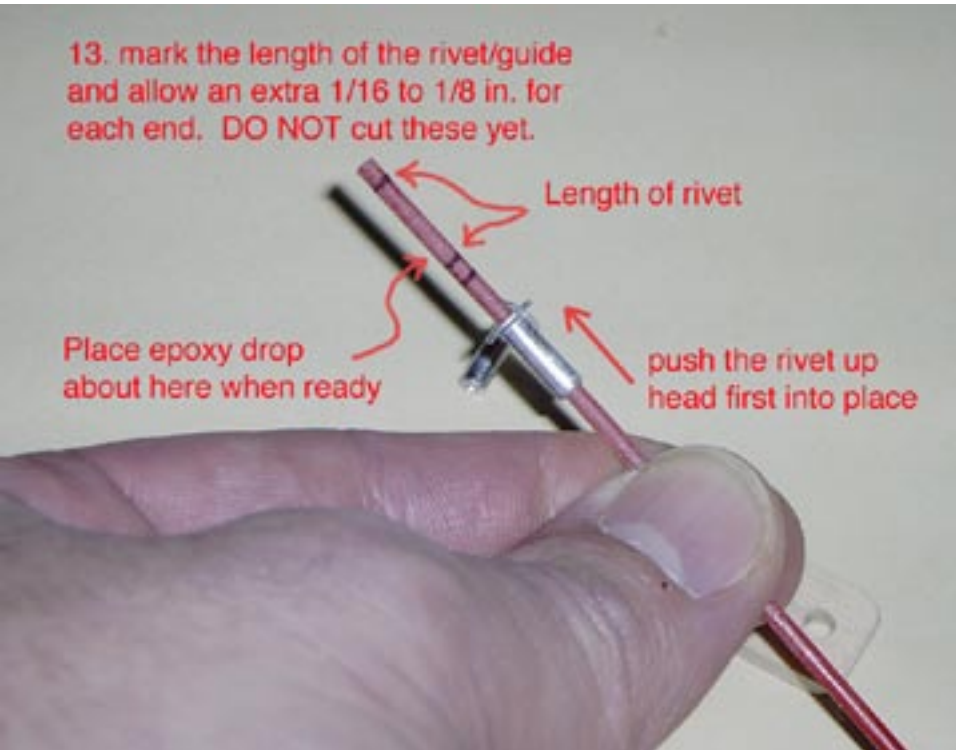
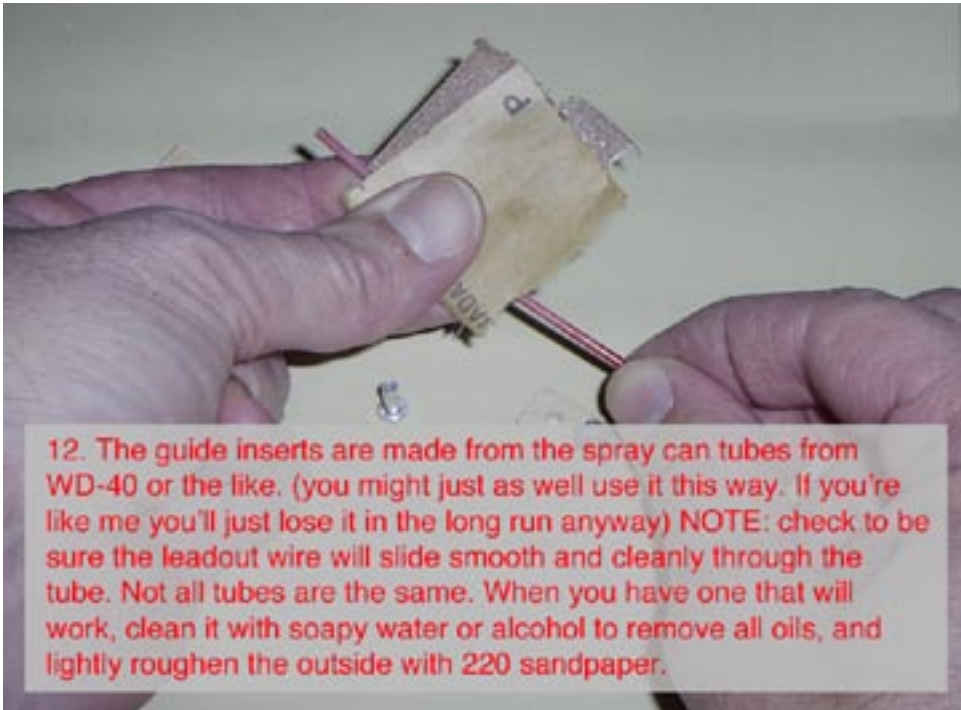
9. Gently set a 4-40 blind nut in the back side of the slider block's center hole. Note: you may need to drill out the center hole a bit to accommodate the blind nut. Force fitting the nut can cause splitting.

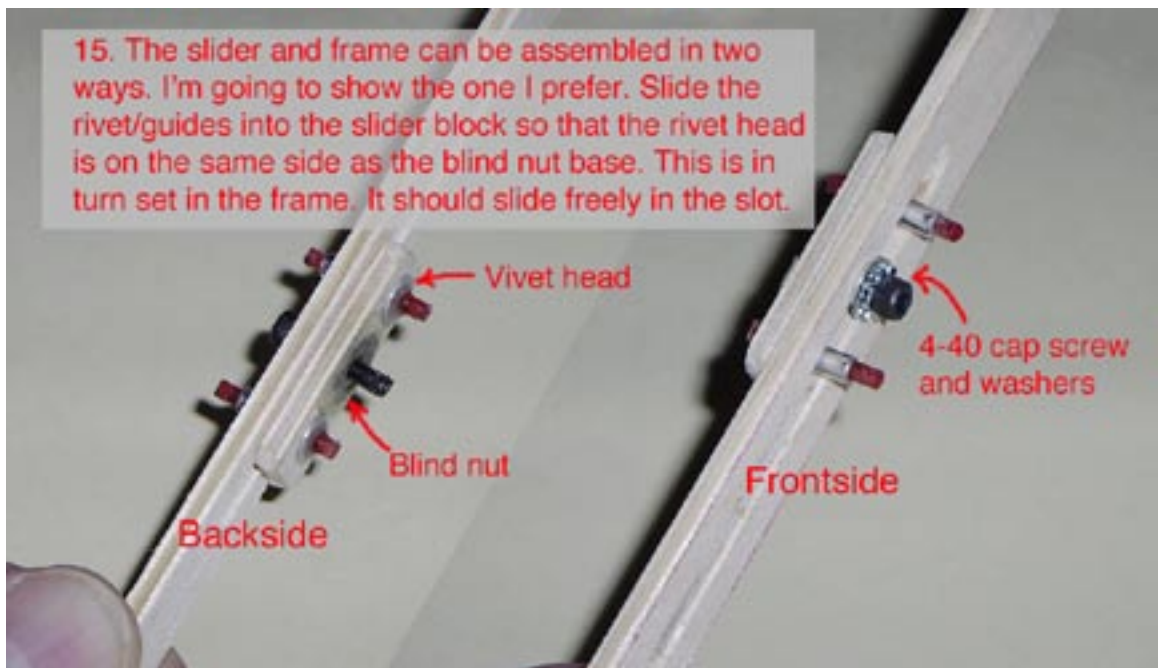
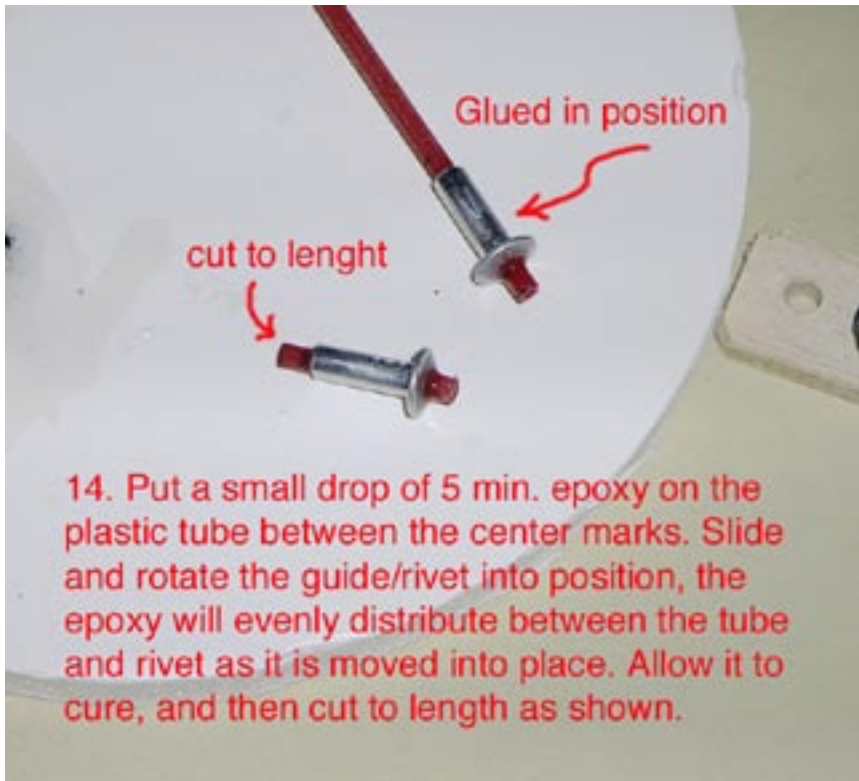
10. Tap the pins from two 1/8 in. by 3/8 in long aluminum pop rivets. This is done by holding the rivet as shown, gently but firmly with pliers or vise grips, and giving the pin a sharp rap with a hammer. DO NOT deform the pop rivet.



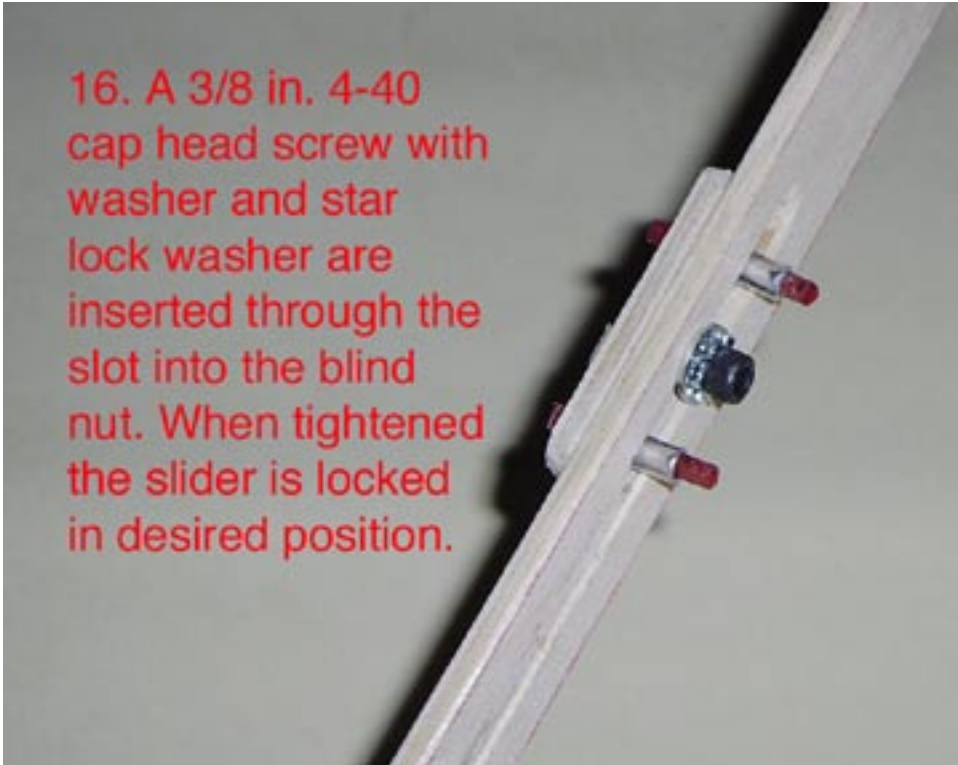
11. Gently drill (#16 or 3/32 bit used) out the holes of the rivets to accommodate the plastic inserts used in the following steps. The inserts are optional. However, I use them to limit play and prevent ware of the steel leadouts against the aluminum guides.



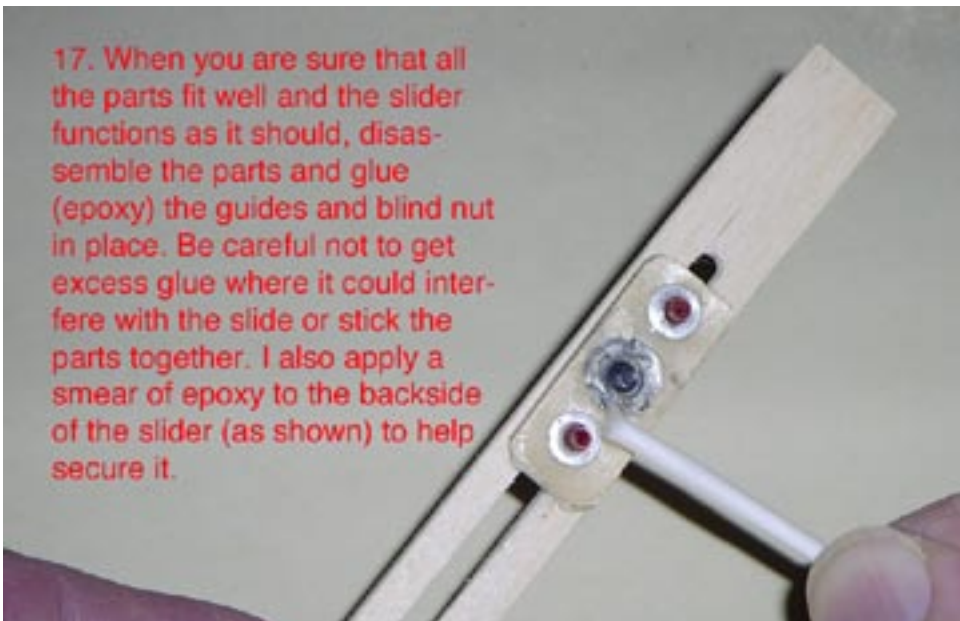




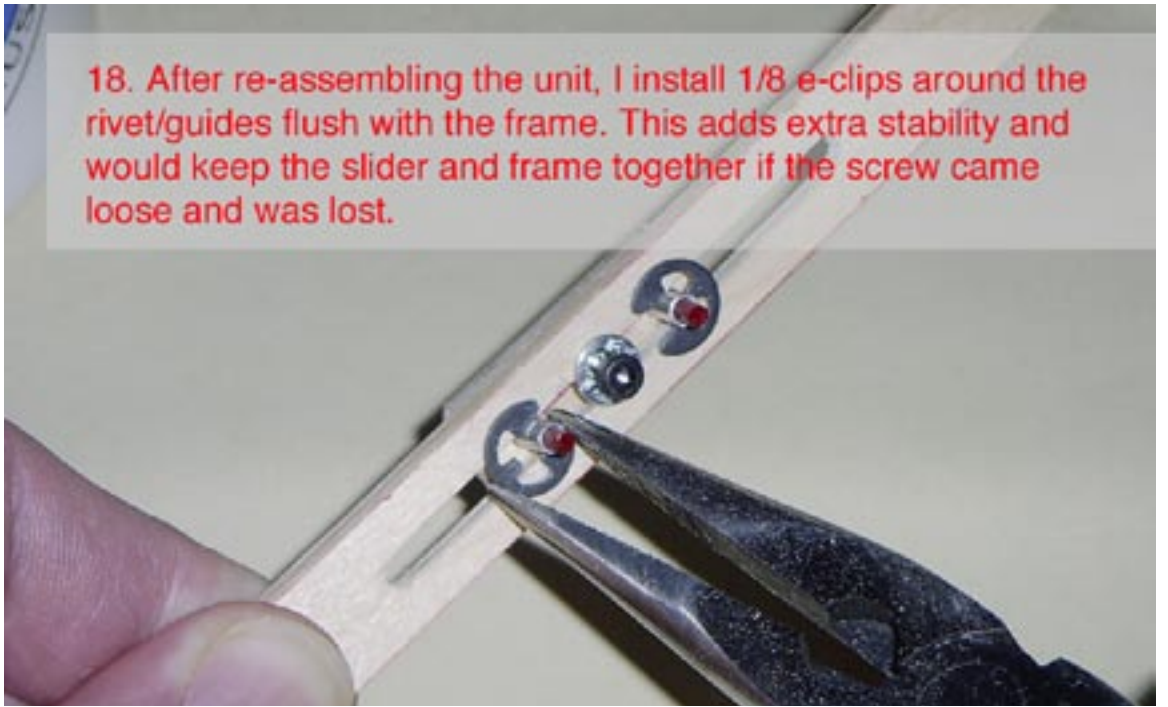
16. A 3/8 in. 4-40 cap head screw with washer and star lock washer are inserted through the slot into the blind nut. When tightened the slider is locked in desired position.



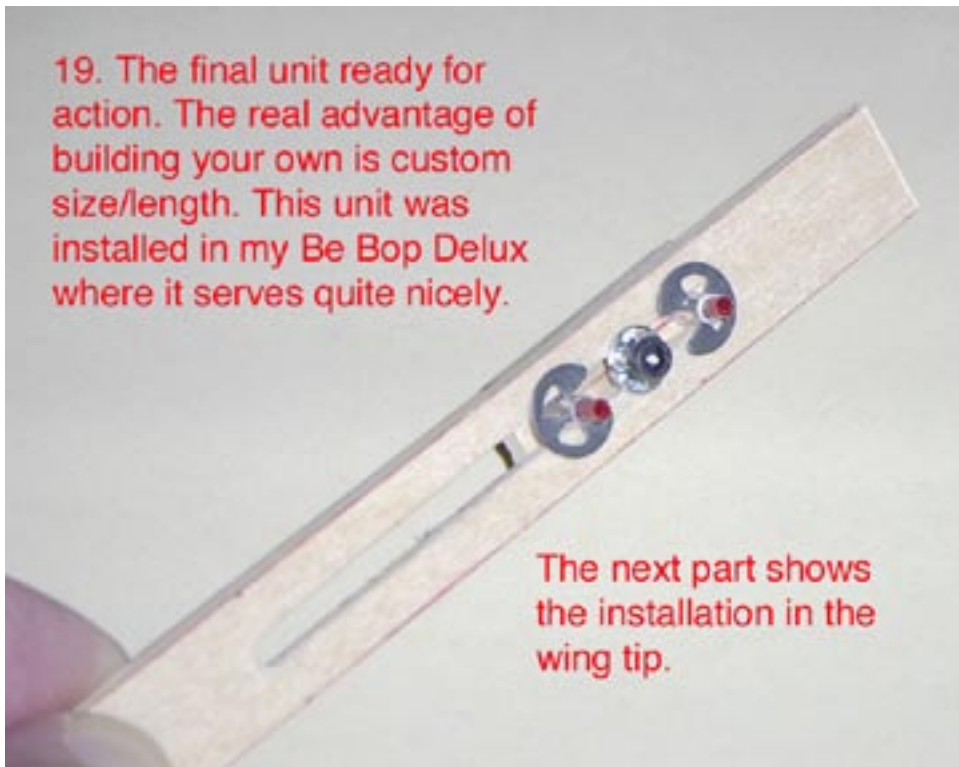
17. When you are sure that all the parts fit well and the slider functions as it should, disassemble the parts and glue (epoxy) the guides and blind nut in place. Be careful not to get excess glue where it could interfere with the slide or stick the parts together. I also apply a smear of epoxy to the backside of the slider (as shown) to help secure it.



18. After re-assembling the unit, I install 1/8 e-clips around the rivet/guides flush with the frame. This adds extra stability and would keep the slider and frame together if the screw came loose and was lost.



19. The final unit ready for action. The real advantage of building your own is custom size/length. This unit was installed in my Be Bop Delux where it serves quite nicely.



The next part shows the installation in the wing tip.