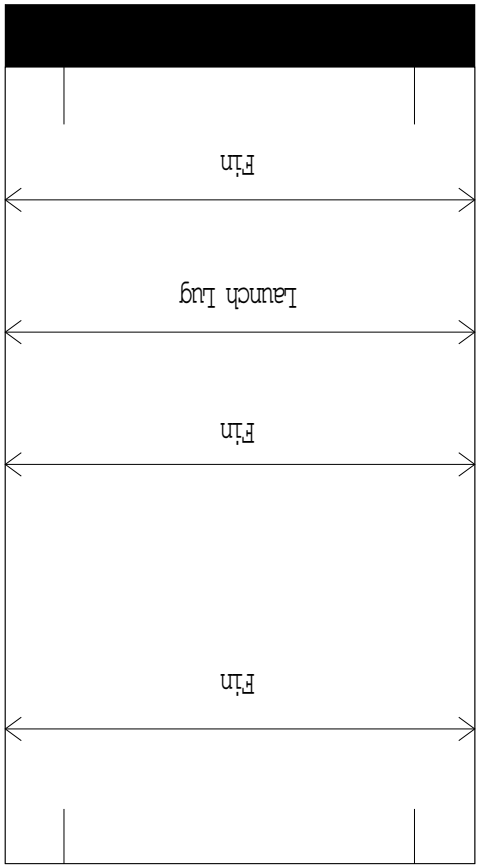
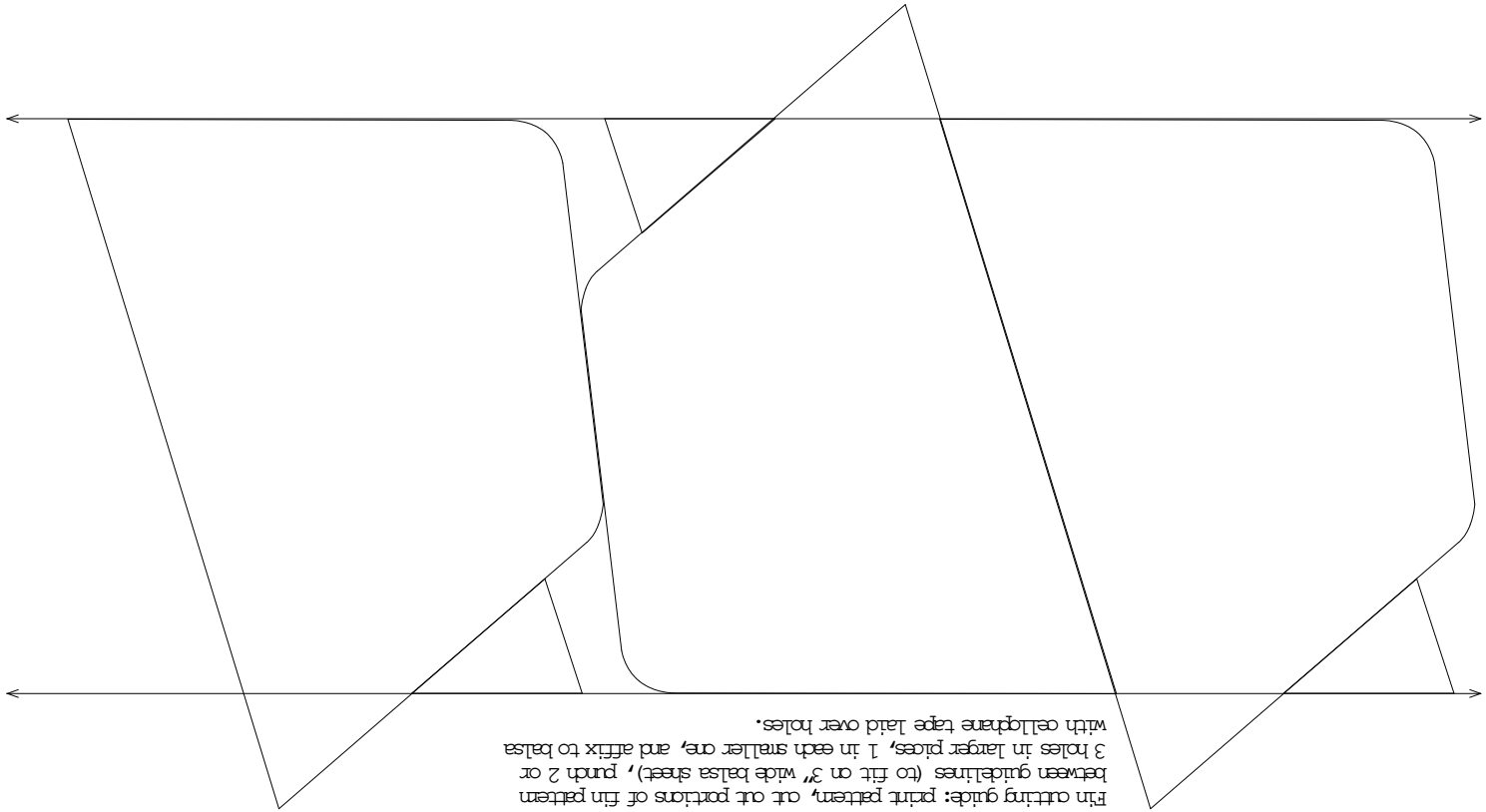
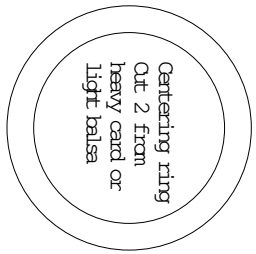


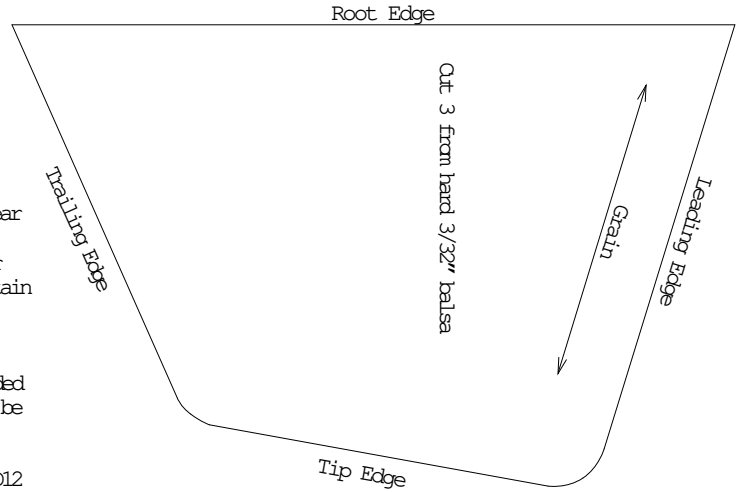



Fin cutting guide: print pattern, cut out portions of fin pattern between guidelines (to fit on 3" wide balsa sheet), punch 2 or 3 holes in larger pieces, 1 in each smaller one, and affix to balsa with cellophane tape laid over holes.

Parts list:

PNC-55AC nose cone (138mm secant ogive, appr. 4° secant angle)
BT-55 x 18 inches
BT-50 x 3 inches (motor mount)
2 Centering rings, AR-5055 or equivalent
70mm long motor hook, Estes, Quest, or equivalent
7.5 inch length 3/32" x 3" hard balsa sheet for fins
3/16" launch lug, 2 x ½" pieces mounted at ends of body tube
Recovery system as desired — original used 18" parasheet




Assemble motor mount per standard Estes practice — optionally install AR-2050 or equivalent as thrust block against forward motor hook to withstand composite motors. Position motor hook to leave appr. ¼" of motor beyond rear of mount tube. Rear centering ring should allow for latching movement of motor hook, which should be secured with slit and glued BT-50 wrap or other overwrap appr. 1.5" aft of forward hook. Do not depend on motor hook to retain RMS 24/40 motor against ejection; use a wire tie to hold hook against motor casing or tape motor into place.

Use long delay motors, especially if fins are streamlined — Estes recommended D12-7 (D12-5 for first flight). For E15 or E30 flights, most likely -10 would be appropriate. The model has lower drag and is lighter than a Big Bertha, and should also fly well on A8-3, B4-4 or B6-4, and C6-5 18mm motors in an adapter. An adapter is easily made from an MM-2050 kit (lighter) or spent D12 motor casing (cheaper).