

ance point of this bird is not critical. Care should be exercised to make sure the fins fit sufficiently well so the rocket, upon fast acceleration, will not run off and leave the fins, but loosely enough so that the fins can be easily parted from the rocket body by the ejection charge in the motor. This recovery system is not recommended for use with series II engines.

The third method of recovery system which is accomplished by shifting the center of gravity requires that

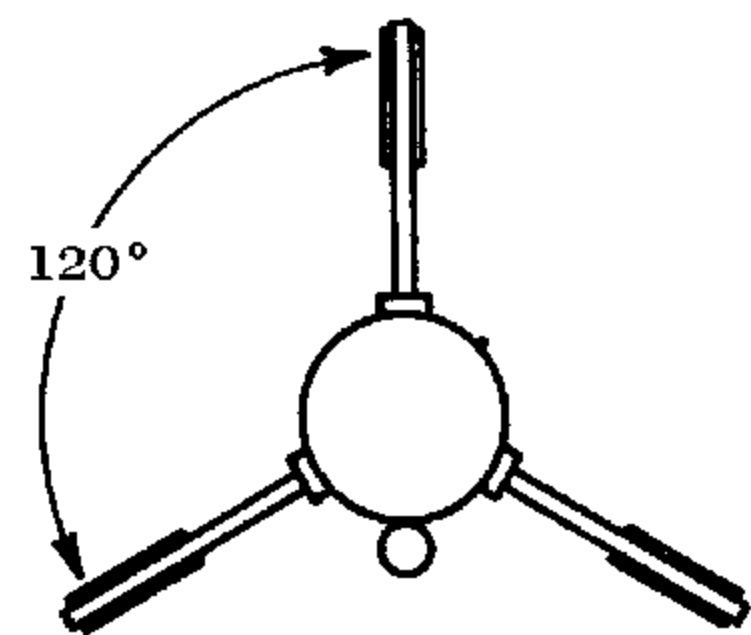
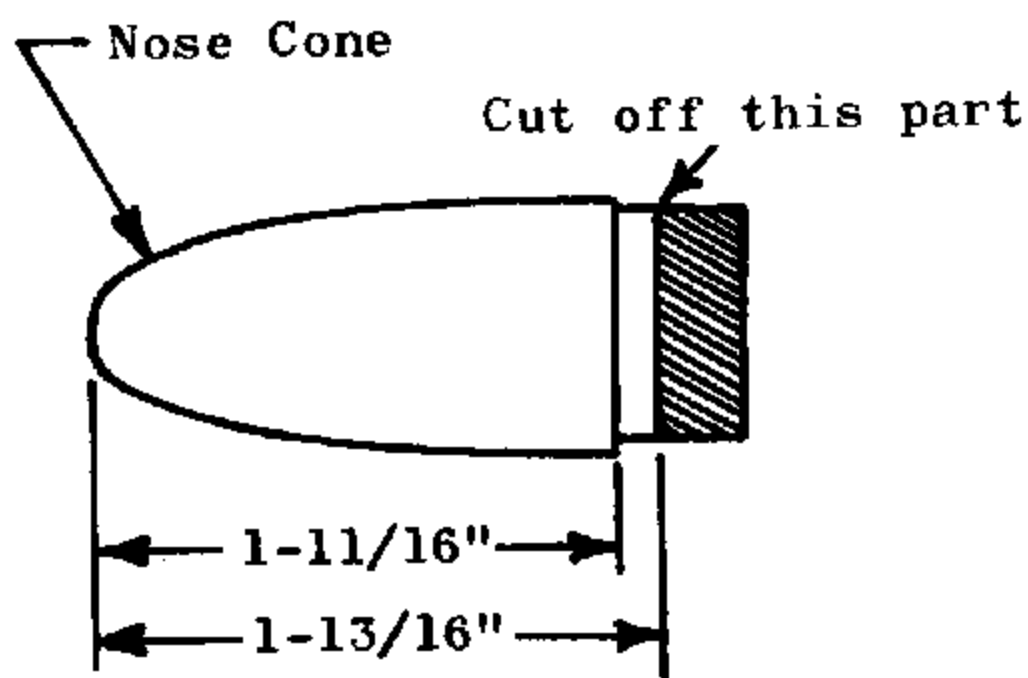
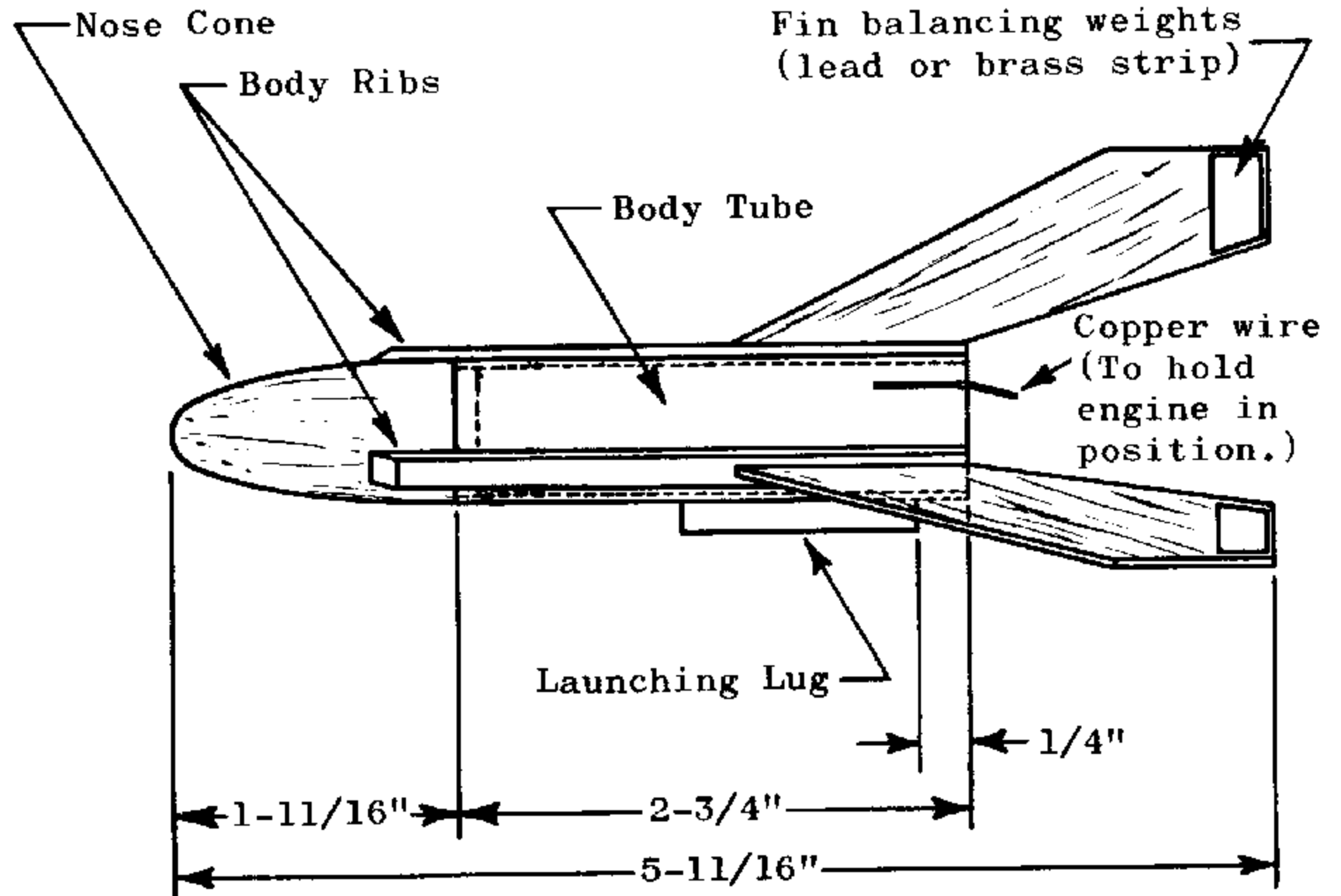
very careful consideration be given to the balance of the rocket. The engine must sit as far forward as possible. When the engine is in place it will add weight to the nose of the rocket, and when it is expelled at the end of the upward travel of the rocket, weight is removed from the nose and the center of gravity is shifted backward toward the fins. This puts the center of gravity behind the center of pressure and causes the rocket to return in a tumbling fashion. Plan No. 3 below makes use of this principle.

The Orange Bullet

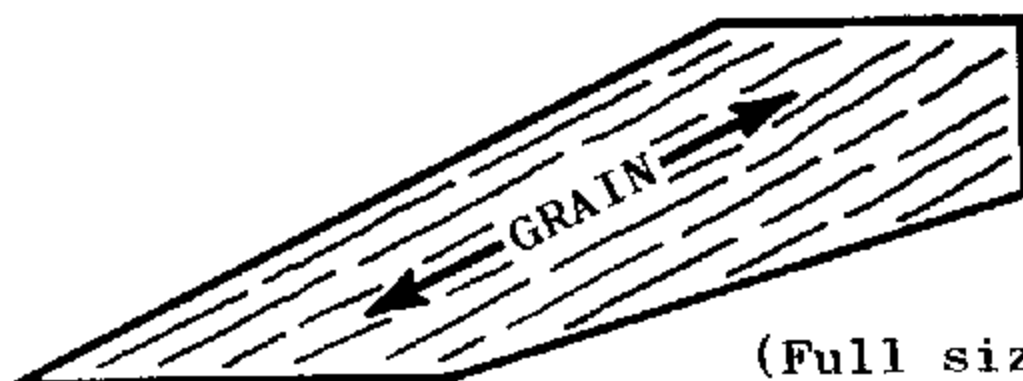
Plan No. 3

PARTS LIST

- Nose Cone #BNC-20B
- Body Tube #BT-20J
- Fin Material #BFS-20
- Launching Lug #LL-1A
- Short copper wire
- Lead or brass balancing weights



Use BFS-20 on fins and ribs



(Full size patterns)

