Sound RC Control Linkage Design

Pushrod as straight as possible and supported against buckling

Servo arm is perpendicular to pushrod when servo is centered

No slop!

Effective lever arm perpendicular to pushrod

Tight hinge (not squirmy)

Solid servo mounting

Max servo throw is roughly $\pm 45$ degrees

Long horns minimize surface's angle slop

Max surface throw is set by arm length ratio