Flight Trimming a Model Aircraft

TRIM FEATURE	MANOEUVRE	OBSERVATION	CORRECTION
Engine Thrust Angle	From straight flight chop throttle quickly	A. Aircraft continues level path for short distance	A. Thrust is correct
		B. Aircraft pitches nose up	B. Decrease Down thrust
		C. Aircraft pitches nose down	C. Increase Down thrust
Centre of Gravity, Longitudinal Balance	From level flight roll to 45 Degrees and neutralise controls	A. Aircraft continues in bank for short distance	A. Trim is correct
	0	B. Aircraft pitches nose up	B. Add nose weight
		C. Aircraft pitches nose down	C. Increase tail weight
Yaw	Into wind, do inside loops using elevator. Repeat test doing	A. Wings level throughout	A. Trim is correct
	Outside loops from inverted entry	B. Yaws to right in both inside and outside loops	B. Add left rudder trim
		C. Yaws to left in both inside and outside loops	C. Add right rudder trim
		D. Yaws to right on inside and left on outside loops	D. Add left aileron trim
		E. Yaws to left on inside and right on outside loops	E. Add right aileron trim
Lateral Balance	Into wind, do tight inside loops	A. Wings are level and aircraft falls to either side	A. Trim is correct
		B. Falls off to the left in loops and worsens as loop tightens	B. Add weight to right wing tip
		C. Falls off to the right in loops and worsens as loop tightens	C. Add weight to left wing tip
Aileron Rigging	From level flight pull to vertical clime and neutralise controls	A. Aircraft continues along same path	A. Trim is correct
		B. Aircraft tends to go to inside loop	B. Raise both ailerons very slightly
		C. Aircraft tends to go to outside loop	C. lower both ailerons very slightly