FLIGHT TRIMMING CHART

TRIM FEATURE	MANEUVERS	OBSERVATIONS	CORRECTIONS
CONTROL CENTERING	Fly general circles and random maneuvers.	Try for hands off straight and level flight.	Readjust linkages so that Tx trims are centered.
CONTROL	Random maneuvers.	A. Too sensitive, jerky	If A, change linkages to
THROWS		controls.	reduce throws.
	_	B. Not sufficient control.	If B, increase throws.
ENGINE	From straight flight,	A. Aircraft continues level	If A, trim is okay.
THRUST	chop throttle quickly.	path for short distance.	If B, decrease downthrust.
ANGLE ¹		B. Plane pitches nose up.C. Plane pitches nose down.	If C, increase downthrust.
CENTER OF	From level flight roll to	A. Continues in bank for	If A, trim is good.
GRAVITY	45-degree bank and	moderate distance.	, •
LONGITUDINAL	neutralize controls.	B. Nose pitches up.	If B, add nose weight.
BALANCE		C. Nose drops.	If C, remove nose weight.
SPLIT ELEVATORS	Into wind, pull open	A. Wings are level throughout.	If A, trim is fine.
(Also Yaw and	loops, using only elevator.	B. Plane tends toward outside	If B, add weight to right
C.G.)	Repeat tests doing outside loops to inverted entry.	when right side up, and to inside when inverted.	wing, or add right rudder.
	in participation of the second	C. Plane goes in on regular	If C, add weight to left
		loops, and out on inverted.	wing, or add left rudder.
		D. Plane goes out on both	If D, raise right half of
		types of loops.	elevator (or lower left).
		E. Plane goes in on both	If E, raise left half of
		types of loops.	elevator (or lower right).
YAW ²	Into wind, do open loops,	A. Wings are level throughout.	If A, trim is correct.
	using only elevator.	B. Yaws to right in both	If B, add left rudder trim.
	Repeat tests doing	inside and outside loops.	
	outside loops from	C. Yaws to left in both	If C, add right rudder trim.
	inverted entry.	inside and outside loops. D. Yaws right on insides, and	If D, add left aileron trim.
		left on outside loops.	ii b, add left aneron tilli.
		E. Yaws left on insides, and	If E, add right aileron trim.
		right on outside loops.	
LATERAL	Into wind, do tight inside	A. Wings are level and plane	If A, trim is correct.
BALANCE	loops, or make straight up	falls to either side	
	climbs into Hammerheads.	randomly in Hammerhead.	
	Do same from inverted	B. Falls off to left in both	If B, add weight to right
	entry.	inside and outside loops.	wing tip.
		Worsens as loops lighten. C. Falls off to right in both	If C, add weight to left
		loops. Worsens as loops	wing tip.
		tighten.	· • • • • • • • • • • • • • • • • • • •
		D. Falls off in opposite	If D, change alleron trim.3
		directions on inside	-
		and outside loops.	
AILERON	With wings level, pull	A. Climb continues along	If A, trim is correct.
RIGGING	to vertical climb and	same path.	
	neutralize controls.	B. Nose tends to go to	If B, raise both ailerons
		inside loop. C. Nose tends to go to	very slightly. If C, lower both ailerons
		outside loop.	very slightly.
WING INCIDENCE	Knife edge flight.	A. Models tends to veer	If A, reduce wing incidence.
		in nose up direction.	, , isadas wing moldonos.
		B. Model veers in nose	If B, increase wing incidence
		down direction.	-

^{1.} Engine thrust angle and C.G. interact. Check both.

^{2.} Yaw and lateral balance produce similar symptoms. Note that fin may be crooked. Right and left references are from the plane's vantage point.

^{3.} Allerons cannot always be trimmed without sealing the hinge gap.