



OCT 18, 2021 AT 6:01 AM

Unlocked

Secret Documents #102: Mosquito Guide - Aircraft Limitations & Aerodynamics

Hi folks!

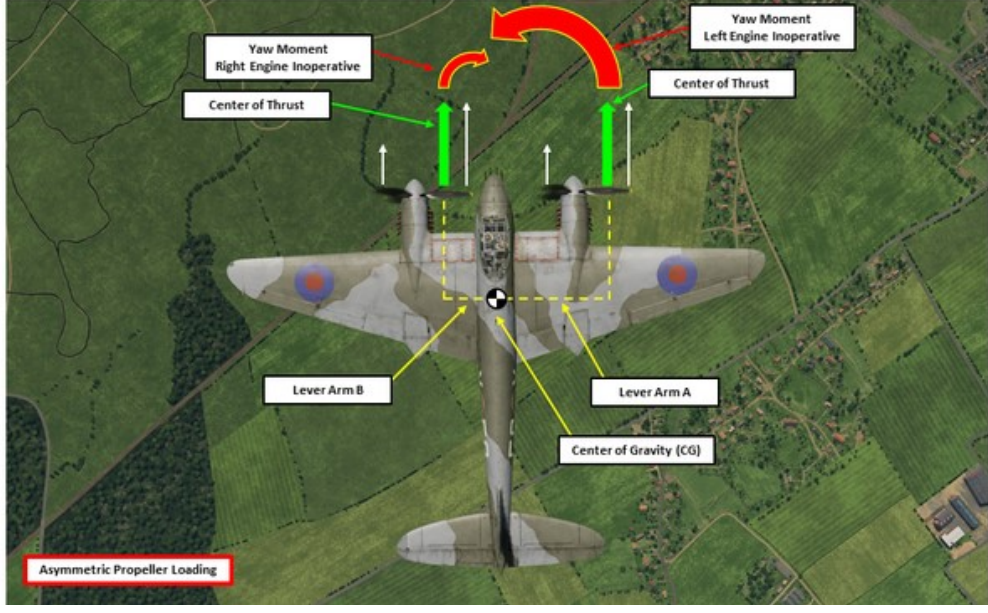
This is a smaller segment regarding speed limitations of the aircraft.

DH.98 MOSQUITO FB MK.IV PART 8 - AIRCRAFT LIMITATIONS	AIRCRAFT AIRSPEED LIMITATIONS				
	Recommended Airspeeds (mph)				
	Engine-Assisted Approach Speed (Both Engines Operating)	125			
	Glide Speed	140			
	Engine-Assisted Approach Speed with Flaps (Both Engines Operating)	135			
	Go-Around Climb Speed (Rejected Landing Climb Speed)	140			
	Maximum Rate-of-Climb (V _r)	175			
	Maximum Allowable Speeds (mph)				
		Without underwing stores or with 2 x 250 or 500 lbs bombs with standard wing bomb fairings	With 2 x 100 gal wing drop tanks	With underwing rockets or depth charges	With underwing stores
	Sea Level to 10000 ft	425	380	405	350
	10000 ft to 15000 ft	405	380	405	350
	15000 ft to 20000 ft	370	370	370	350
20000 ft to 25000 ft	340	340	340	340	
25000 ft to 30000 ft	300	300	300	300	
30000 ft to 35000 ft	270	270	270	270	
Bomb Doors Open	350				
Undercarriage Down	180				
Flaps not more than 25 deg Down	200				
Flaps Fully Down (45 deg)	150				



DH.98 MOSQUITO FB PART 9 - AERODYNAMICS

right engine is greater than the corresponding one of the left engine (see figure below). The effects of asymmetric propeller loading are most pronounced when engines are operating at a high power setting and the airplane is flown at high angles of attack (low speeds).



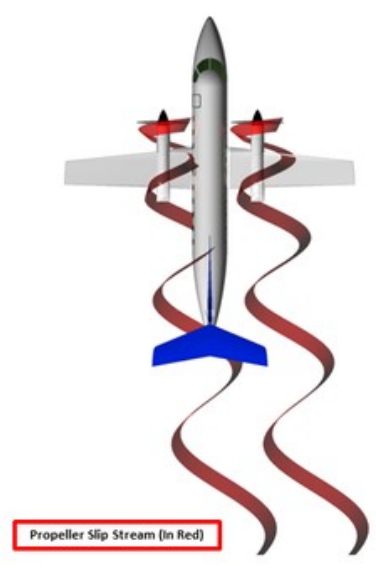
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DH.98 MOSQUITO FB MK VI PART 9 - AERODYNAMICS

PROPELLER SLIPSTREAM EFFECT

Propeller slipstream refers to the accelerated airflow present in the wake of the propellers. As a spinning propeller produces thrust, it also imparts a spin and a lateral displacement to the airflow behind it - referred to as slipstream "swirl" or "spiraling".

If the propellers rotate clockwise (when viewed from the rear), the wake from the left propeller is displaced inboard with the result that the flow immerses the aft portion of the fuselage and tail in slipstream, as illustrated in figure below.



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