Introduction & Description

Hi! I'm Jonas, the designer of the OMPHOBBY M4. Below you will find my EVO setup I have successfully been flying on my OMPHOBBY M4. The numbers in this document, especially gains, are not applicable to NEO. This setup is tailored to the OMPHOBBY components and RotorTech 385 Ultimate included with the PNP version of the M4, and is to be understood as a suggestion and a starting point for your own setup. Your values may vary greatly if using other components, especially servos and rotor blades. Always exercise the greatest caution and double-check your setup when using someone else's values. I assume no responsibility or liability for damage to your helicopter or damage caused by your helicopter when using my setup values. With that out of the way, enjoy the most capable 380 size helicopter ever made on EVO!



Revision

Gain1008060Low numbers here are expected due to high mechanical gainStyle7090100Ratio P:D of the control loop. Higher value means more DLightness3500Allows for more collective pitch against the gravity vectorElevator Precomp252015Straightens the helicopter's climb on large collective inputsPaddle Sim101010Sharpens the helicopter's climb on large collective inputsIntegral6060-Pitch Pump00Can be used to sharpen collective response on fast movesHeli Size4040Can be increased slightly to reduce stop wobblesCollective Balance3535-Optimizer625755Set manually, needs to be lowered from default for RT-385UTail RotorExpo5050Yaw Rate130130Set as per personal preferenceGain504030Low numbers are expected due to high mechanical gainP8080I mit00-D530Asmall amount of D gain helps the tail stay calm at low RPMCollective Precomp403530Tune as necessary for your tail to stay calm on pitch changesCyclic Precomp000Cyclic precomp is not needed due to aeroelastic effects of the bladeOptimizerAutoAutoLawing this on continuosiy works				1		
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	Optimizer	Auto	Auto	Auto	Leaveing this on continously works	
Tail Acceleration 55 55 -	Wag Suppression	0	0	0	-	
	Tail Acceleration	55	55	55	-	
ESC				ESC		
ESC Output 46 63 72 Refer to the M4's manual to set your desired rotor speed	ESC Output	46	63	72	Refer to the M4's manual to set your desired rotor speed	
Headspeed 1850 2500 2850 If using different headspeeds, adjust other parameters accordingly		1850	2500	2850	· · · · · · · · · · · · · · · · · · ·	