



March 2019 M2 Update

Teeter Towers for the first 21 Sport Copter M2s!

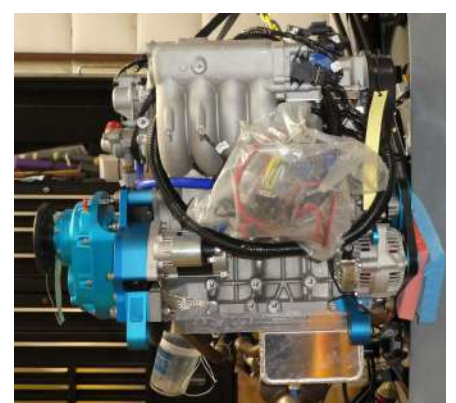
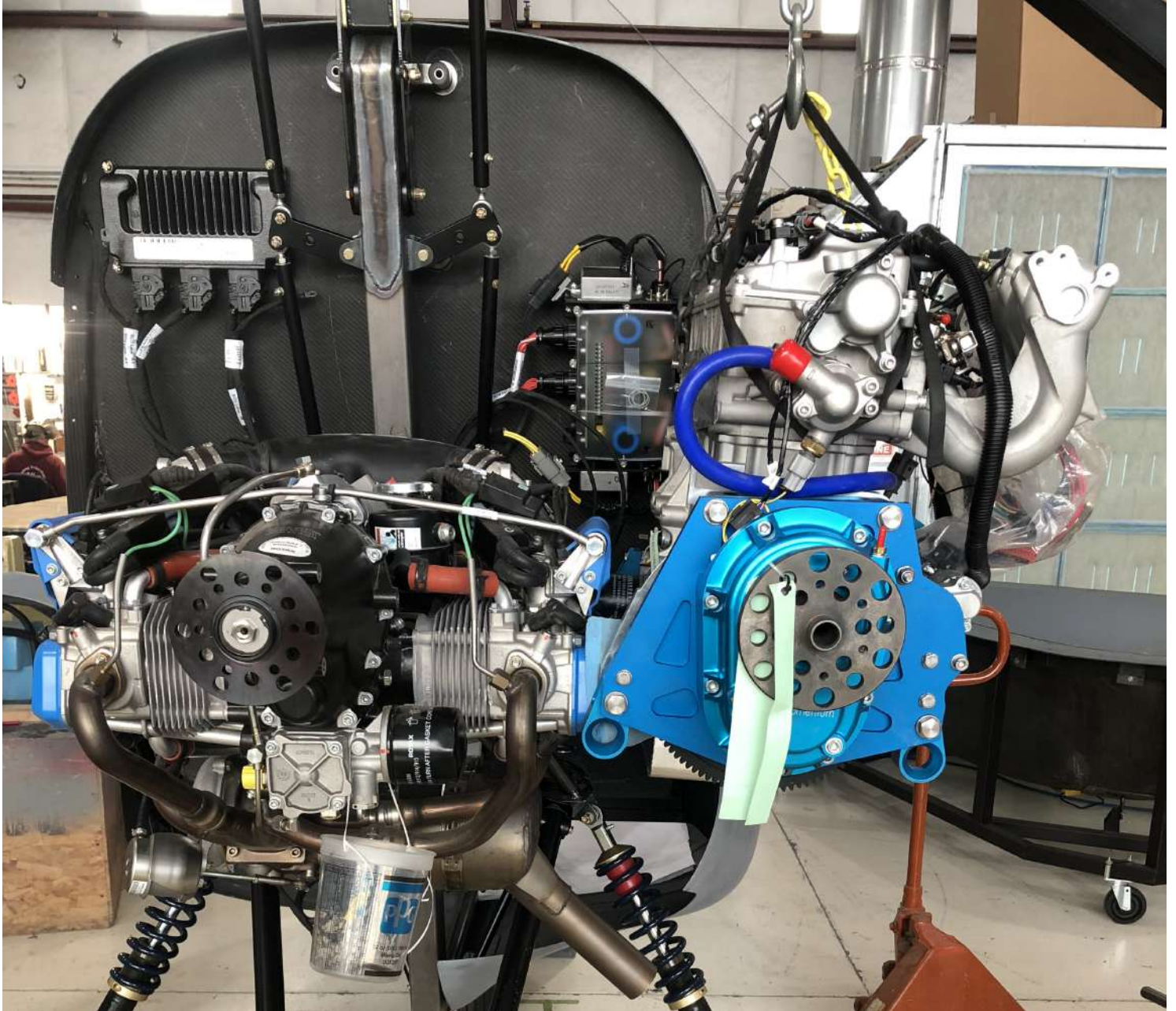


Notice the zerk fittings for the teeter needle bearings – no more lifting out the bar and blades every 25 hours!

In the raw 6061-T6 here, ready for our classic gold anodizing.

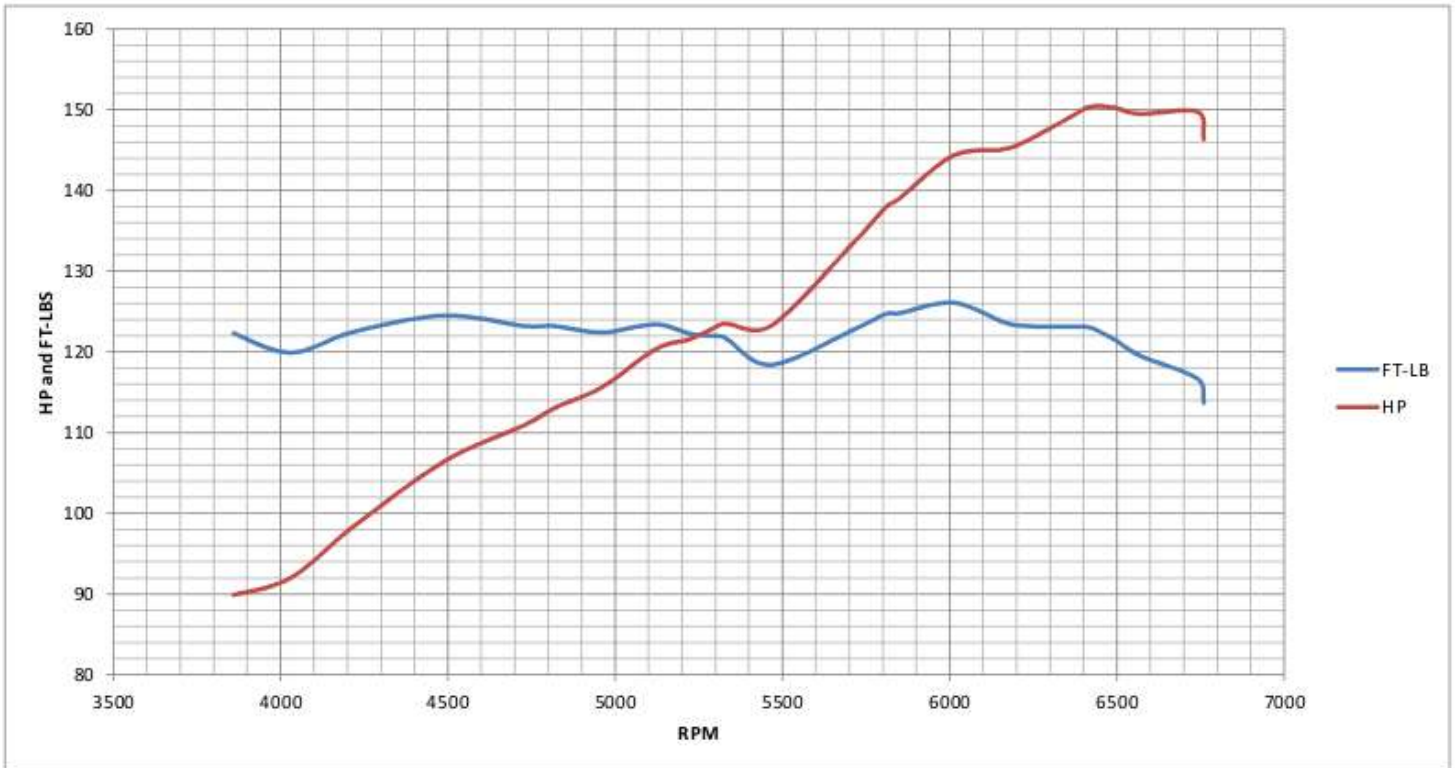
AeroMomentum AM-15HP (131 hp @ 5800rpm)

Here is our first AM15-HP hoisted up to match prop height of the Rotax 915iS.



Although rated conservatively on the website, one engine gave 140.6hp @5840rpm, which matches the Rotax 915iS of 141hp for 5 minutes at 5800rpm.

Weight is nearly identical between the two.



AM15(Low Profile)	Rotax 914	Rotax 915iS
131@5800 (2241 prop)	115@5800 (2387prop)	135@5800
185	172	185
0.71	0.67	0.72
1497cc	1211cc	1211cc
75x84.5mm	79.5x61mm	79.5x61mm
16V SOHC	8V pushrod	8V pushrod
Liquid	Liquid/Air	Liquid/Air
10.1:1 compression		
Fuel Injection	Dual Carbs	EFI dual port
1500		
\$14,000 Upright	\$29,000	\$35,000

At left and bottom are some 2018 coarse superimposings of the AM-15HP onto the M2.

On the right is our SolidWorks inclusion of the engine within our cowling. A bit of adjusting will be required, but the AM-15HP will fit nicely. Soon we will mount it up for a thrust test, and I'll report the results. We expect 700+ lbs.



2.5" Chrome-Moly 4130 round tail boom



Removable for storage or transport (and replaceable, if necessary), this round boom will be considerably stronger than our original square tubing (and much more so than our competitors' aluminum and stainless steel booms).

Why aren't other gyros built with structural steel such as 4130? Because it's more expensive, and difficult to bend without wrinkling. Only one local firm could form it to our precise specs; all other companies asked if we could please instead supply 1020 mild steel or 304 stainless – but inferior materials is not the Sport Copter way!



Safe flying!



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"REMEMBER: WE BUILD THE BEST BECAUSE WE WILL ONLY FLY THE BEST!!!"