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2 Cleveland Cloudster 600 - Motor Position and Cowl

1 message

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Report No. 2
Cleveland Cloudster 600
July 9, 2020

This morning I ordered the Axi motor and 70 Amp ESC for the Cloudster 600 as shown below.

Product Information

Product Name	Part No.	Quantity	Item Price	Total Price
Jeti Advance 70 Pro Opto Brushless ESC	JETIADV-700-DNRS	1	\$85.00	\$85.00
AXi 15 2814/10 Outrunner Brushless Motor V2	MAXI-2814-10v2	1	\$89.00	\$89.00

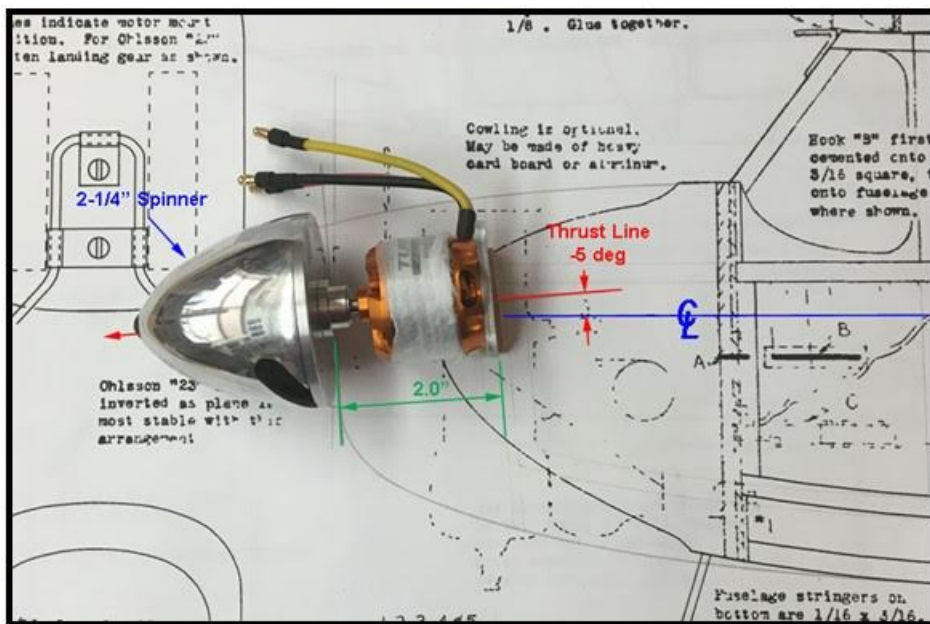
Subtotal: \$174.00

Shipping: \$8.25

Tax: \$0.00

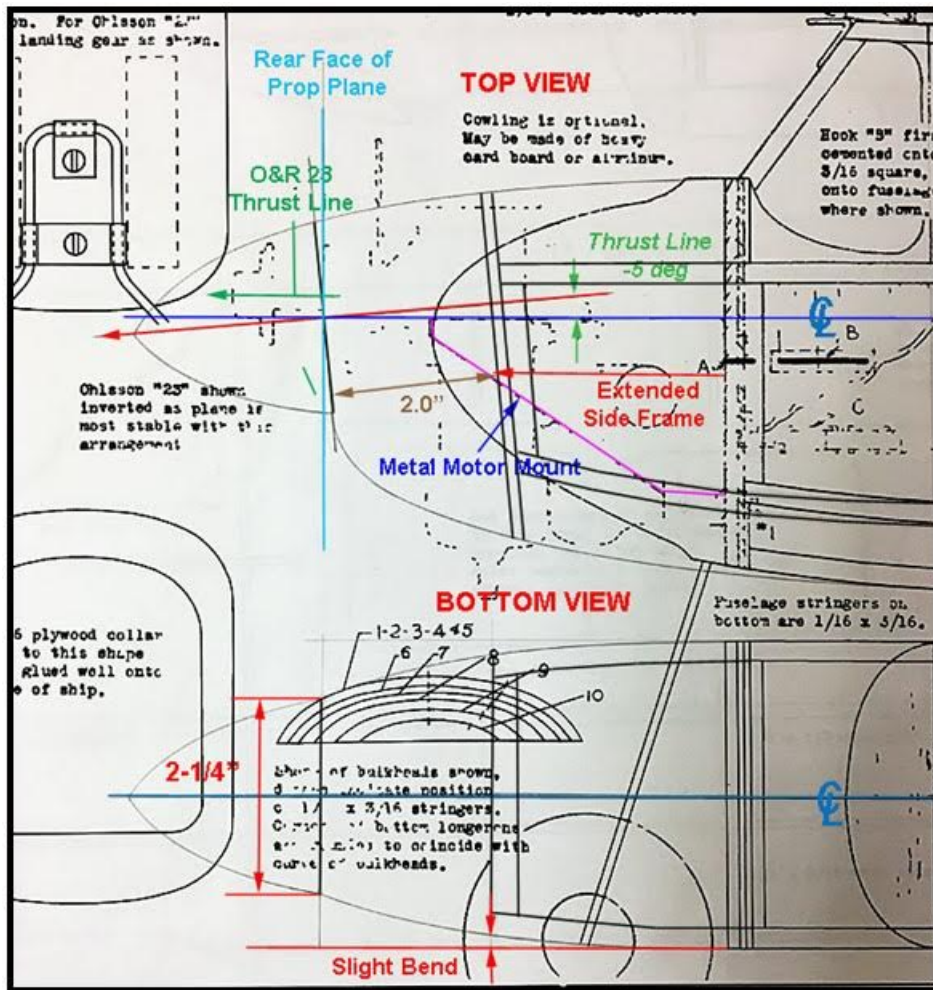
Order Total: \$182.25

The Axi and Turnigy outrunner motors are approximately the same size so I could use the Turnigy motor to locate the repositioned firewall as shown below. I will build in -5° down thrust and use a 2-1/4" spinner to fit the cowl to as shown on the plan mock up below. Notice that the distance from the base of the spinner back to the rear face of the motor mount is 2.0" (this may have to be adjusted when I get the Axi motor).



The O&R 23 shown in phantom on the plan below has its thrust line above the top of the metal motor mount as you can see. The blue center line was drawn along the top of the metal motor mount. The Axis -5° down thrust line was passed through the intersection of the center line and rear face of the prop plane as shown below. The top and bottom contours for the cowl was then faired in from the fuselage to the base of the 2-1/4" spinner as shown below. The 1/8" firewall was drawn in perpendicular to the Axis thrust line 2.0" back from the base of the spinner. Finally, the fuselage's side was extended forward to the firewall to eliminate the requirement for a motor mount spacer.

By using a 2-1/4" diameter spinner, the extension of the fuselage side frames only require slight bending to the firewall in order to match the contour shown in the top view below.



Now I have to wait for the arrival of the Axi outrunner motor to finalize this drawing and frame up the fuselage sides. Esprit Model message received at 11:41 this morning: [This email has been sent to inform you that your order, #197852, has been updated to a status of Shipped.](#) Tandy