

**Stealthwake 23" Brushed Deep-V RTR PRB08015 UPGRADE #1 INFO**

	Upgrade Item	Direct Cost
1	Surpass Hobby Brushless Inrunner Motor 3660 2600KV	\$18.88
2	Turnigy Marine ESC 90A	\$34.64
3	OSE .150 cable with 3/16" prop shaft 2.25" long ose-cable-150L	\$20.99
4	Speedmaster Stinger Strut for 3/16"(.187") prop shaft ros-stinger-str : SPDSD-2140	\$39.95
5	1/4 OD K&S brass tubing pn# 8131 for 12", #1149 for 3' for stuffing tube	\$6.00
6	Octura Coupler Flex Hex 5mm to .150 Cable Short Length oct-ocfhe5mm15S	\$11.99
7	<b>CNC Prop 44mm - 3/16" bore : cnc-4414250</b>	\$19.95
8	Rudder Assembly with water pickup for 650mm to 900mm boat Ose-83260	\$15.99
9	Speedmaster 1" x 1.5" Adjustable Metal Trim Tabs (2 pairs=\$26) ros-spdt-100	\$12.98
10	One set Metal Turn Fins, small ose-80060	\$14.95
11	OSE Aluminum Small Water Outlet Black : pn#ose-80895-black	\$2.49
11	OSE Aluminum Small Water Outlet Silver : pn#ose-80895-silver	\$2.49
12	Aluminum grommets (2) for tubing, 6.0mm Silver, tfl-522b35-6-sil	\$2.45
13	OSE Tow Hook / Cleat Size- Small tow hook, pn# ose-83002-SM	\$7.95
14	Flex cable saver Size - .150 Cable Saver pn# ose-80072-15	\$2.95
15	FlySky FS-GR3E 2.4GHz 3CH upgraded waterproof receiver	\$13.99
17	<del>ose-1035 OSE 1/8" to 3/16" prop adapter</del>	<del>\$1.99</del>
18	<del>ose-2bld-316 Glass Filled 3/16" Propeller 1.4x45mm</del>	<del>\$2.39</del>
4	<del>Speedmaster 21 Strut : Mono ros-spdss-002MR Mono</del>	<del>\$28.95</del>
19	<del>uxcell 2 PCS 3mm to 5mm rotate-able universal shaft coupler L24XD11</del>	<del>\$9.09</del>
20	<del>uxcell shaft coupler 3mm x 5mm connector adapter (rigid) L20XD9</del>	<del>\$5.59</del>
9	<del>ose-80077 Angled Trim tabs (pair)</del>	<del>\$10.95</del>
3	<del>OSE .150 cable with 3/16" prop shaft 2.25" long ose-cable-150L</del>	<del>\$20.99</del>

original BL motor : 3900KV on 2S = 28,860 RPM

**Stealthwake #1**

2600KV on 2S = 19,240 RPM  
 2600KV on 3S = 28,860 RPM

OSE recommends 25,000 RPM max for "sport" boats

RPMs	Kv on 2S LiPo	Kv on 3S LiPo
25,000	3378	2252
30,000	4054	2703

RPMs	Kv on 4S LiPo	Kv on 6S LiPo
25,000	1689	1126
30,000	2027	1351

Have the FlySky FS-GT3 Tx so only needed another Rx

lost

lost

no longer needed

no longer needed

no longer needed

no longer needed

No longer needed: Too short – cut for the Strut, not Stinger

1800KV on 2S = 13,320  
 1800KV on 3S = 19,980  
 1800KV on 4S = 26,640

Total everything spent on Stealthwake =	\$308.59
Total spent to upgrade Stealthwake in current configuration =	\$228.64
Spent but not used in final configuration or lost =	\$79.95
Stealthwake new (not including tax) =	\$160
<b>Total cost of upgraded Stealthwake (not including taxes &amp; shipping) =</b>	<b>\$389</b>

all spent between Jan. 2020 & Jan. 2021

This is "Stealthwake new" + "Total spent to upgrade Stealthwake in current configuration"

Most components purchased from Offshore Electrics (OSE): <https://www.offshoreelectrics.com/>

Motor and ESC purchased from Hobby King: <https://hobbyking.com/>

K&S Brass Tubing and misc. parts purchased from my local Hobby Town: <https://www.hobbytown.com/>

<https://www.horizonhobby.com/product/stealthwake-23-brushed-deep-v-rtr/PRB08015.html>

**Stealthwake 23" Brushed Deep-V RTR PRB08015 UPGRADE #2 INFO**

	Upgrade Item	Direct Cost
1	Leopard 3650 2750Kv 5D with 6mm bullets : leo-3650	\$45.00
2	OSE Raider 6s 90amp ESC w/6mm Bullets & EC5 connectors : ose-R-90	\$50.00
3	Piano .078 Wire Drive System for 3/16" Props : jw-wire078	\$17.00
4	Teflon Liner 24" (600mm) oct-teflon-24 - .098 teflon liner : pn# oct-teflon-24	\$3.95
5	Octura Coupler Flex Hex 5mm to .078 Piano Wire : oct-ocfhe5mm078	\$13.00
6	K&S Brass Tubing 12" long 7/32" Stuffing tube : #8130	\$2.00
6	K&S Brass Tubing 12" long 1/4" Stuffing tube : #8131	\$2.00
6	K&S Brass Tubing 12" long 9/32" Stuffing tube : #8132	\$2.00
7	<b>CNC Prop 44mm De-Tongued - 3/16" bore : cnc-4416-D</b>	\$19.95
8	Rudder Assembly with water pickup for 650mm to 900mm boat Ose-83260	\$15.99
9	ose-80077 Angled Trim tabs (pair) [took from Stealthwake #1]	\$10.95
10	One set Metal Turn Fins, small ose-80060	\$14.95
11	OSE Aluminum Small Water Outlet Silver : pn#ose-80895-silver	\$2.49
11	OSE Aluminum Small Water Outlet Silver : pn#ose-80895-silver	\$2.49
12	Aluminum grommets (2) for tubing, 6.0mm Silver, tfl-522b35-6-sil	\$2.45
13	OSE Tow Hook / Cleat Size- Small tow hook, pn# ose-83002-SM	\$7.95
15	Flysky FS-A3 Receiver	\$12.00

**Stealthwake #2**

2750KV on 2S = 20,350 RPM  
 2750KV on 3S = 30,525 RPM

OSE recommends 25,000 RPM max for "sport" boats

RPMs	Kv on 2S LiPo	Kv on 3S LiPo
25,000	3378	2252
30,000	4054	2703

RPMs	Kv on 4S LiPo	Kv on 6S LiPo
25,000	1689	1126
30,000	2027	1351

Have the FlySky FS-GT5 Tx so only needed another Rx

<b>Total spent to upgrade Stealthwake =</b>	<b>\$224.17</b>
Stealthwake used from eBay <b>including</b> shipping & tax =	<b>\$116</b>
<b>Total cost of upgraded Stealthwake (not including taxes &amp; shipping) =</b>	<b>\$340</b>

**Most components purchased from Offshore Electrics (OSE):** <https://www.offshoreelectrics.com/>

**Wire drive system parts purchased from Wohlt's RC Boats:** <http://www.rcraceboat.com/StorePAGE.html>

**K&S Brass Tubing and misc. parts purchased from my local Hobby Town:** <https://www.hobbytown.com/>

<https://www.horizonhobby.com/product/stealthwake-23-brushed-deep-v-rtr/PRB08015.html>

## Stealthwake #1

Center of Gravity (CG) for a mono-hull is roughly between 25% [5.75" / 146.3mm] and 35% [8.1" / 205.7mm] of boat's length measured from transom  
(CG information is summarized from several sources indicating CG should be somewhere in the range stated above, usually around 30% ± 3%)

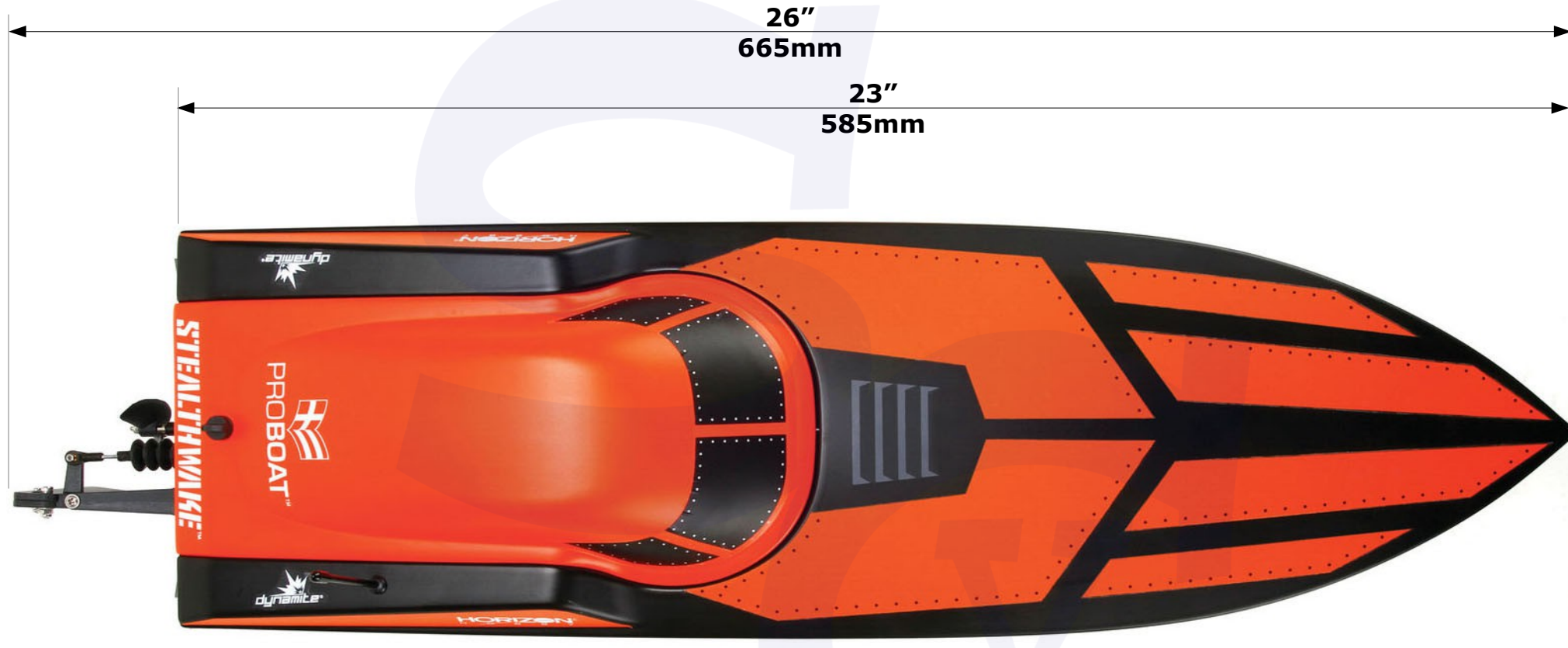
**Actual CG is approx. 28% to 30% with 2s or 3S LiPo shifted to the rear**



**Stock shaft angle is approximately -6°**

**With 2 cell LiPo, would need approx. 3oz/100g on starboard side (receiver side) to balance side-to-side, however, motor and prop torque is rotating the boat and the battery balances the roll somewhat, so don't need side-to-side balance**

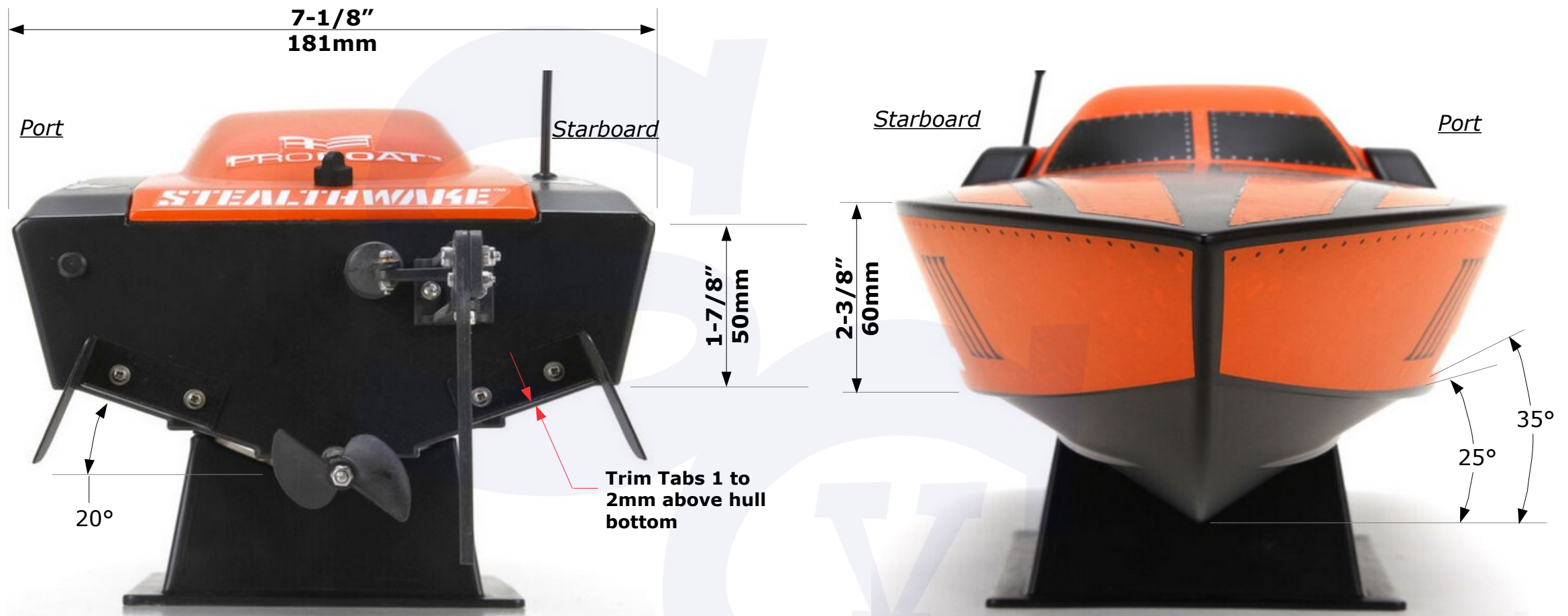
Stealthwake measurements-stock



Propeller Size per Horizon Hobby = 1.6 x 2.5 (38 x 63.5mm)  
Prop size is 1.6 pitch x  $\varnothing$ 40mm = 2.5/63.5 pitch

**"Hull Height" per Horizon Hobby = 4.5" / 114.3mm**  
**Hull Material = ABS**

Stealthwake measurements-stock



**"V" angle/Deadrise at stern = 20° (measured)**  
 The Candy deadrise at stern is 10°

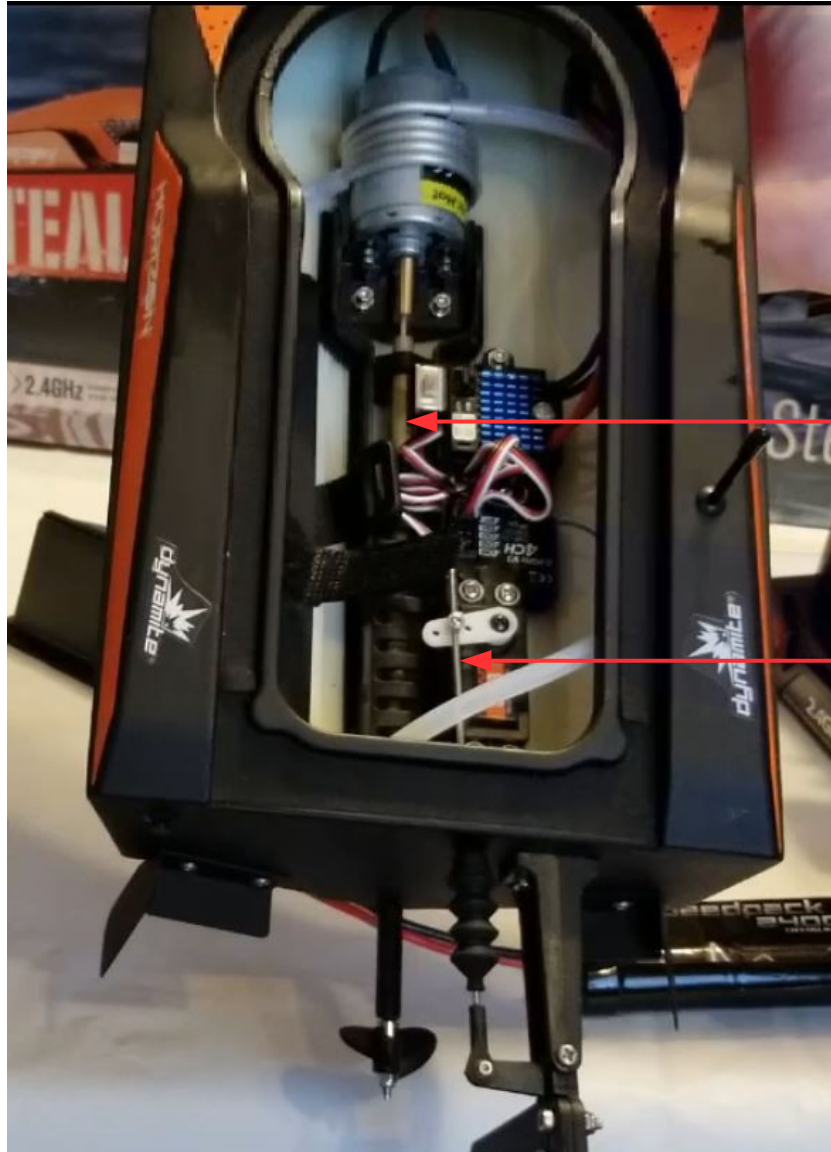
**"V" angle/Deadrise amidships ≈ 25°**  
**"V" angle/Deadrise at bow ≈ 35°**

Real boats:

"A standard moderate-V hull carries a deadrise angle of 15° to 20° at the transom. Deep-V's generally start at 21° and go up to about 26°. The standard racing boat became the 24-degree, deep-V hull around 30 feet long" (source information is uncertain)

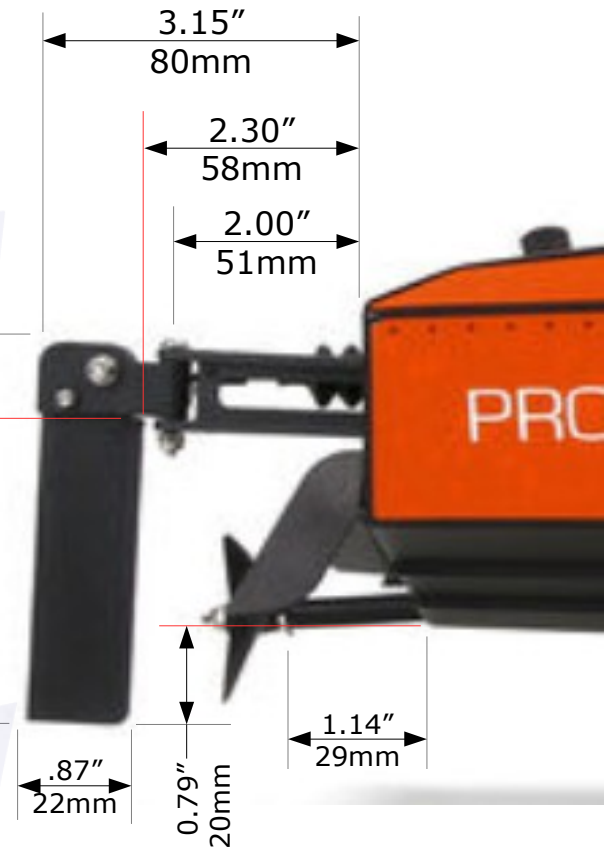
"Deep Vee models are the best type of Mono for heat racing. They handle traffic and rough water conditions very well. Vee angles ranging from 19 degrees to 23 degrees seem to work best for heat racing. Shallow vee boats are faster on calm water and deeper vee boats work best in rough water."

Source of above info: <http://rcboats.kiwi/index.php/ct-menu-item-15/ct-menu-item-31/ct-menu-item-33>



**Ø.278" / 7mm x 8-1/4" / 210mm long  
stuffing tube : 1-1/4" / 31mm exit the  
transom**  
**Ø.118" / 3.0mm solid prop shaft  
9-3/4" / 248mm long**

**Rudder pushrod length  
= 5-3/8" / 135mm to  
center of rudder pivot**



**Stock stuffing tube end is approx. 5.5% at 1-1/4" / 31.8mm. Target is up to 2-1/4" / 57mm**

*"End of stinger/strut/stuffing tube is typically sticking out the transom 10% of the length of the boat"  
(source info is uncertain, probably from R/C boat forum somewhere)*



**Freeboard:** The distance from the waterline to the upper deck level, measured at the lowest point of sheer, where water can enter the boat or ship.





## Stealthwake #1

Center of Gravity (CG) for a mono-hull is roughly between 25% [5.75" / 146.3mm] and 35% [8.1" / 205.7mm] of boat's length measured from transom  
(CG information is summarized from several sources indicating CG should be somewhere in the range stated above, usually around 30% ± 3%)



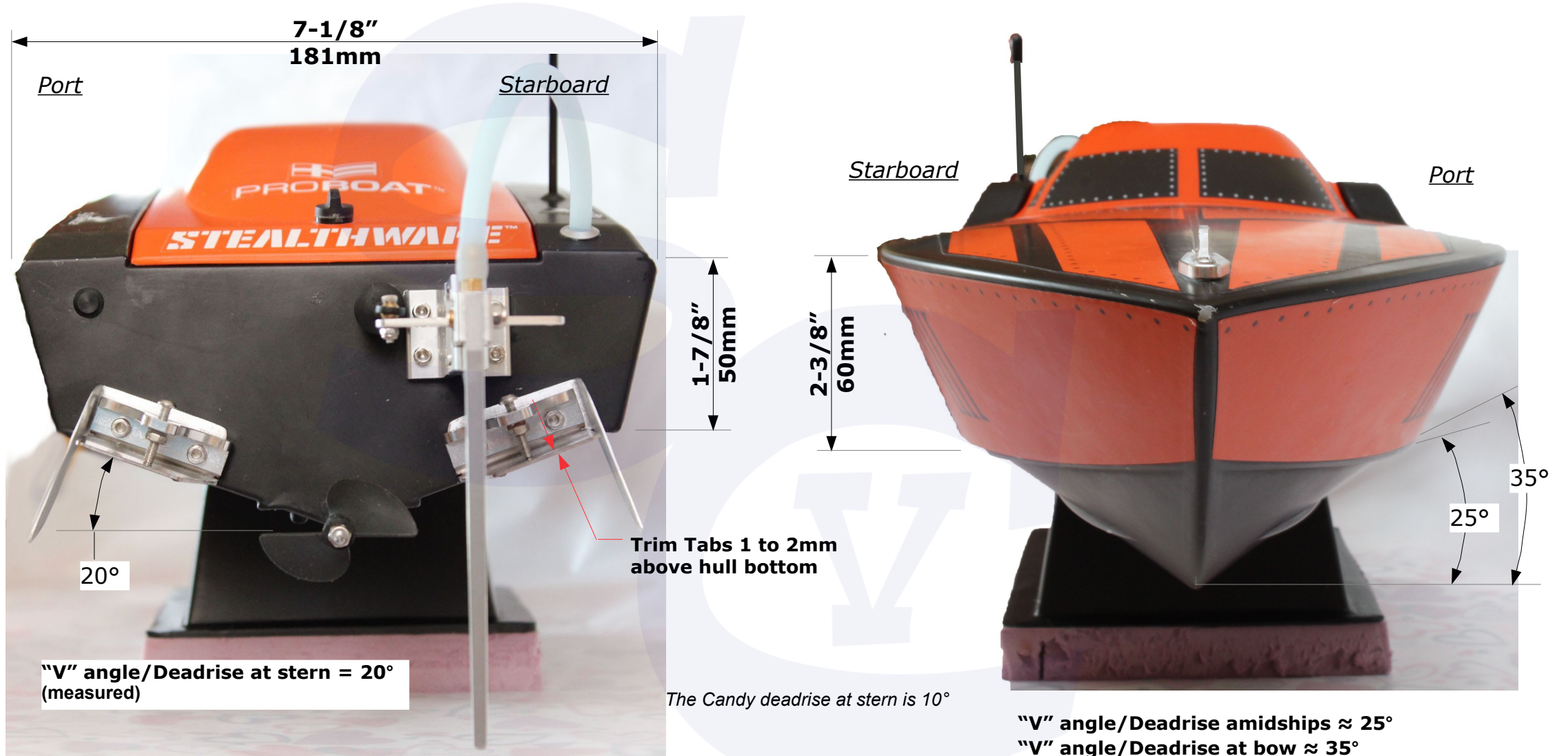
Stock shaft angle is approximately -6°

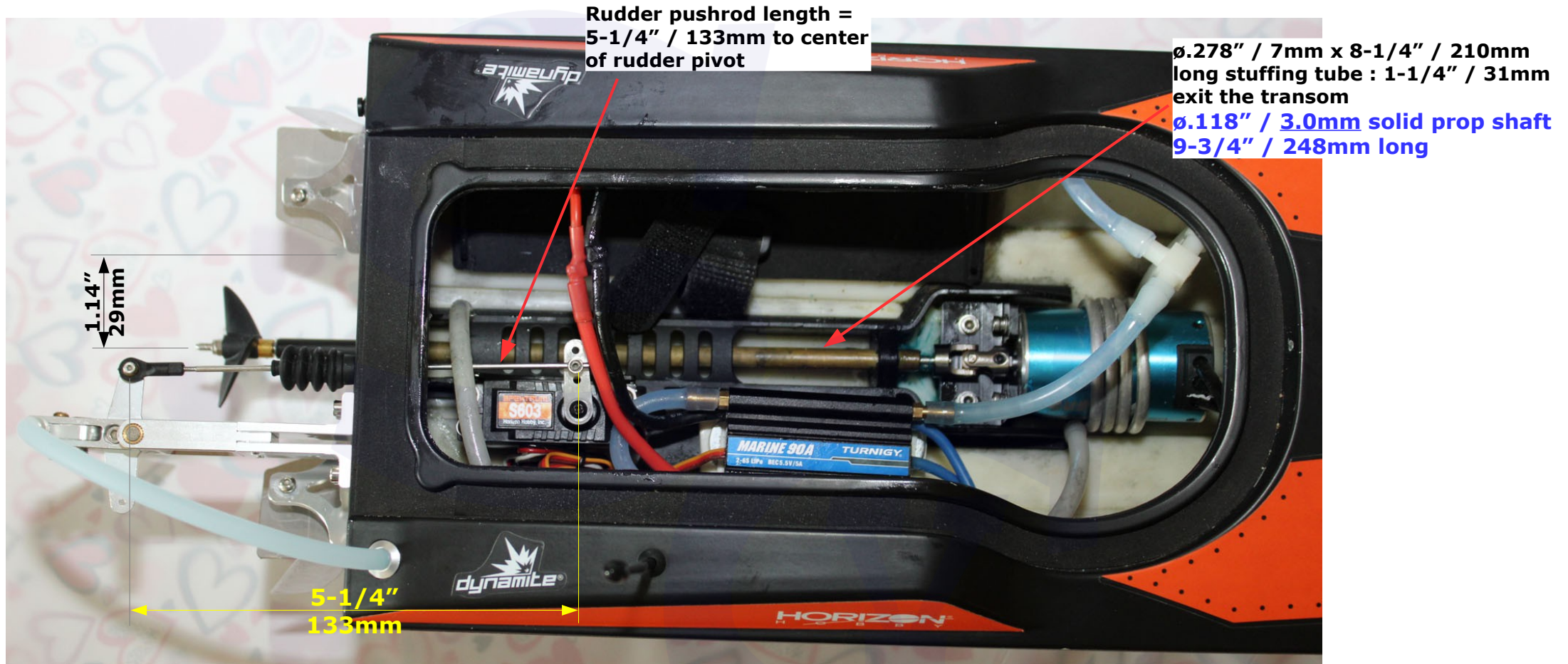
Stealthwake 1 measurements-upgrades1



Propeller Size per Horizon Hobby = 1.6 x 2.5 (38 x 63.5mm)  
Prop size is 1.6 pitch x  $\varnothing$ 40mm = 2.5/63.5 pitch

**"Hull Height" per Horizon Hobby = 4.5" / 114.3mm**  
**Hull Material = ABS**





.150" flex cable with 1/4" (.250") K&S brass stuffing tubing w/teflon liner & 3/16 prop

.187" flex cable with 9/32" (.281") K&S brass stuffing tubing w/teflon liner & 3/16 prop [9/32" was too tight]

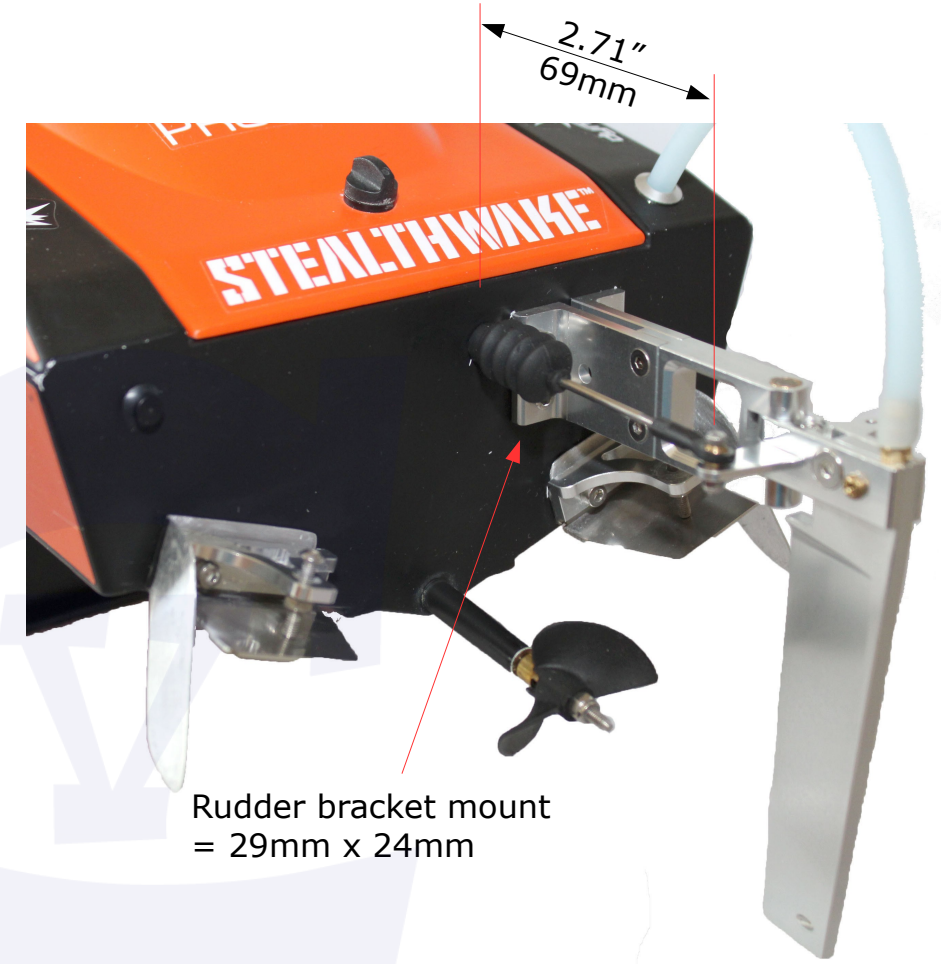
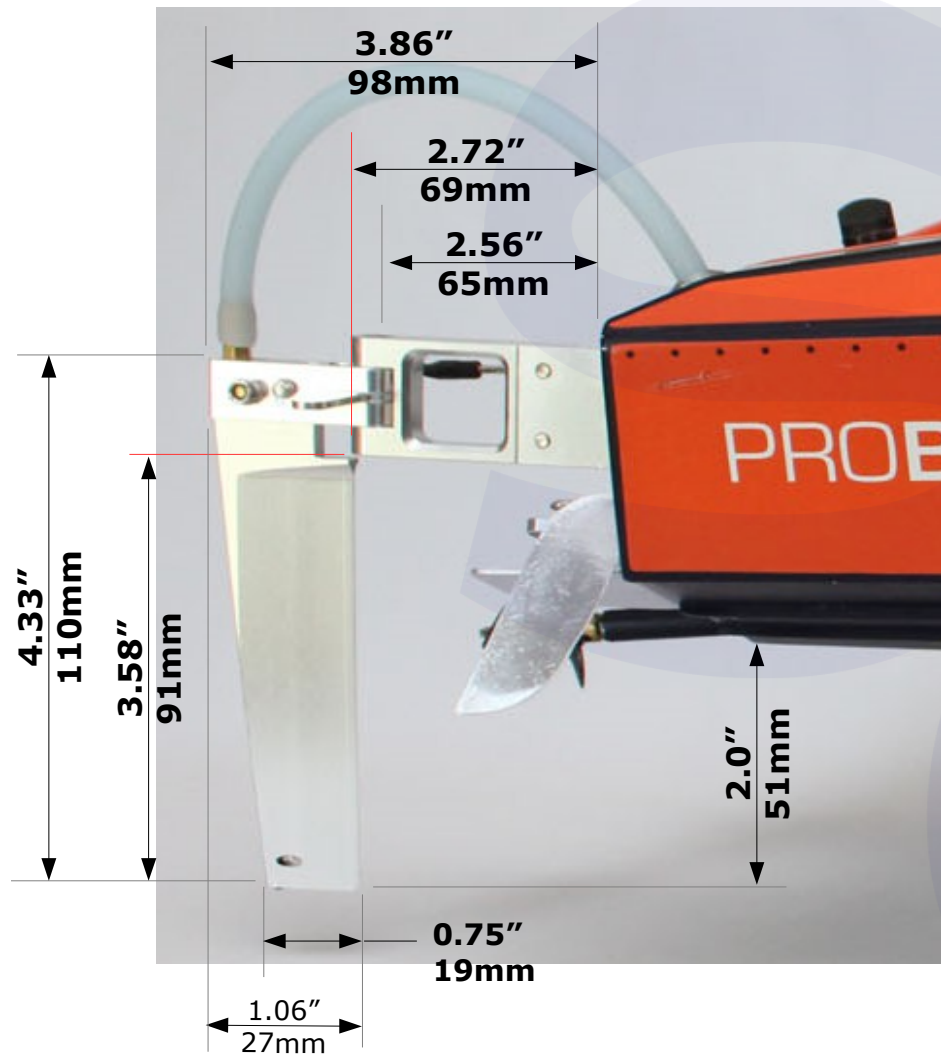
(from OSE forums on upgrading a Stealthwake)

End of stinger/strut/stuffing tube is typically sticking out the transom 10% of the length of the boat

**Stock stuffing tube end is approx. 5.5% at 1-1/4" / 31.8mm. Target is up to 2-1/4" / 57mm**

Speedmaster Stinger Strut for 3/16" (.187") propeller shafts is 3.25" / 82.5mm which is 14% of the length of the boat

TFL stinger tfl-503B70 is 3.07" / 78mm which is 13% and the TFL length adjustable one is 73mm to 83mm



## Stealthwake #1



**Strut is now adjustable to -2° to +3° or more**

Center of Gravity (CG) for a mono-hull is roughly between 25% [5.75" / 146.3mm] and 35% [8.1" / 205.7mm] of boat's length measured from transom

**CG Measured from transom w/2-cell 5200mAh LiPo:**

- A = 6-3/16" (27%) [battery at rear of battery tray]
- B = 6-1/4" (27.2%) [battery at front of battery tray]
- C = 6-7/8" (30%) [back of battery even with back of motor]
- D = 7-3/8" (32%) [front of battery even with front of motor]
- E = 7-5/8" (33%) [battery pushed forward to foam block]

(CG information is summarized from several sources indicating CG should be somewhere in the range stated above, usually around 30% ± 3%)

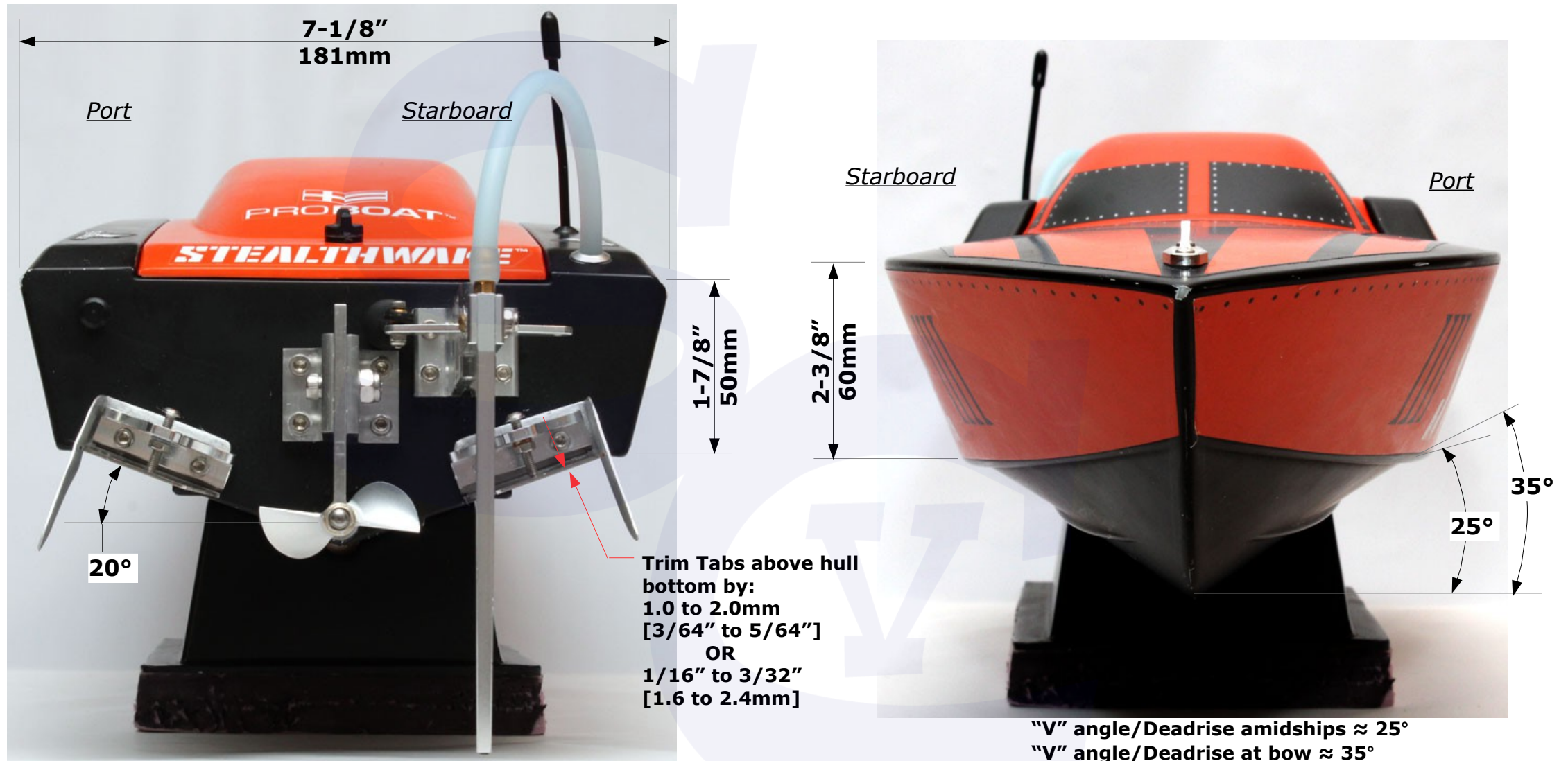


Stealthwake 1 measurements-upgrades2



**Upgraded Prop Size is 1.6 pitch x  $\varnothing$ 40mm, de-tongued = 2.5/63.5 pitch**  
Stock Prop Size is 1.6 pitch x  $\varnothing$ 40mm = 2.5/63.5 pitch

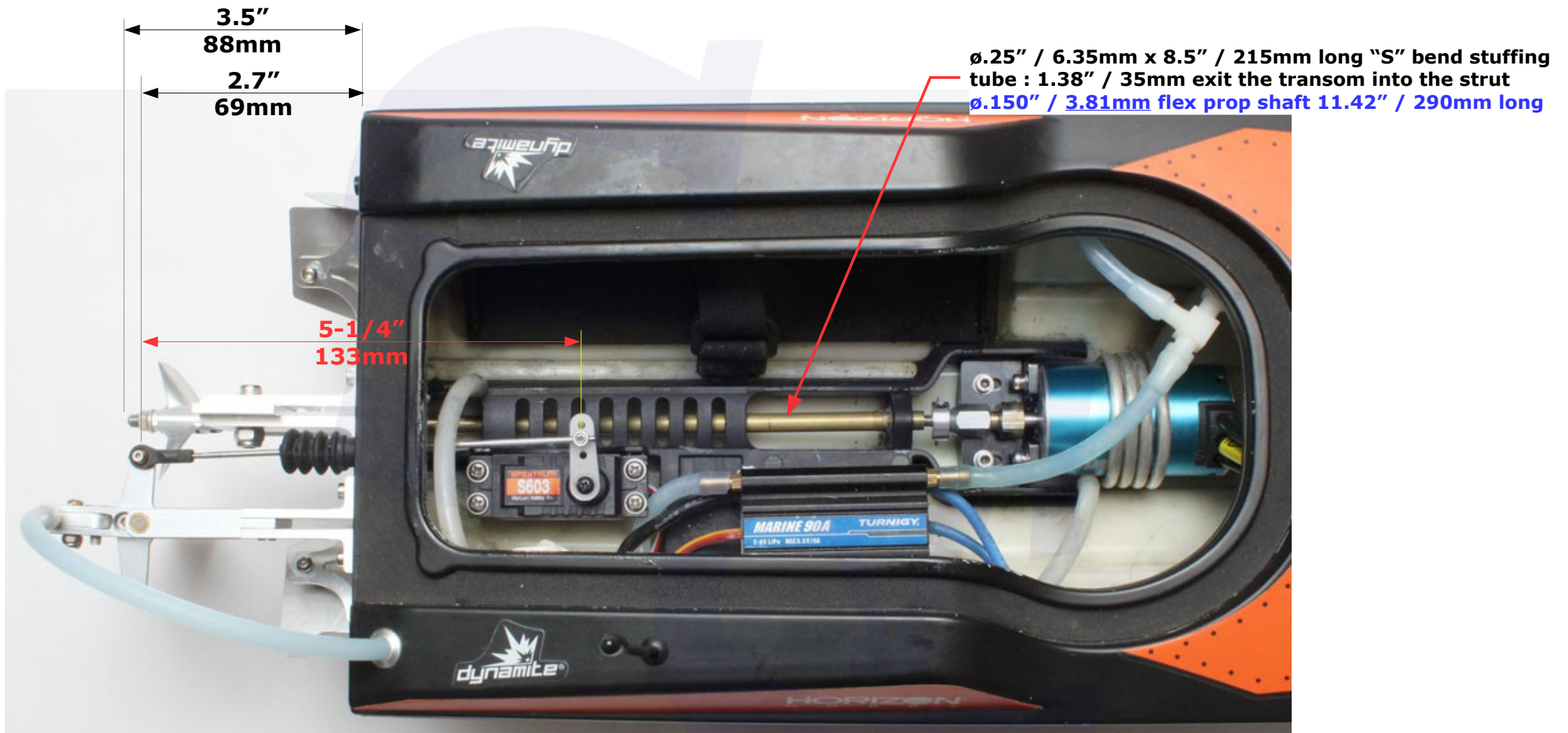
**"Hull Height" per Horizon Hobby = 4.5" / 114.3mm**  
**Hull Material = ABS**



"Deep Vee models are the best type of Mono for heat racing. They handle traffic and rough water conditions very well. Vee angles ranging from 19 degrees to 23 degrees seem to work best for heat racing. Shallow vee boats are faster on calm water and deeper vee boats work best in rough water."

(see "stock" tab for source)

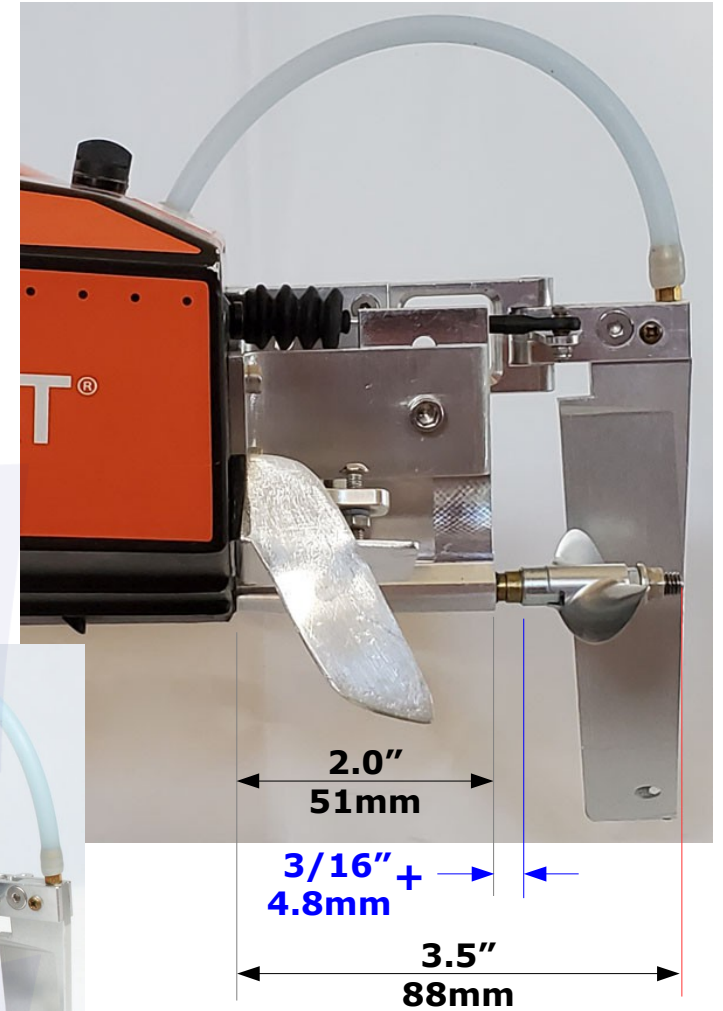
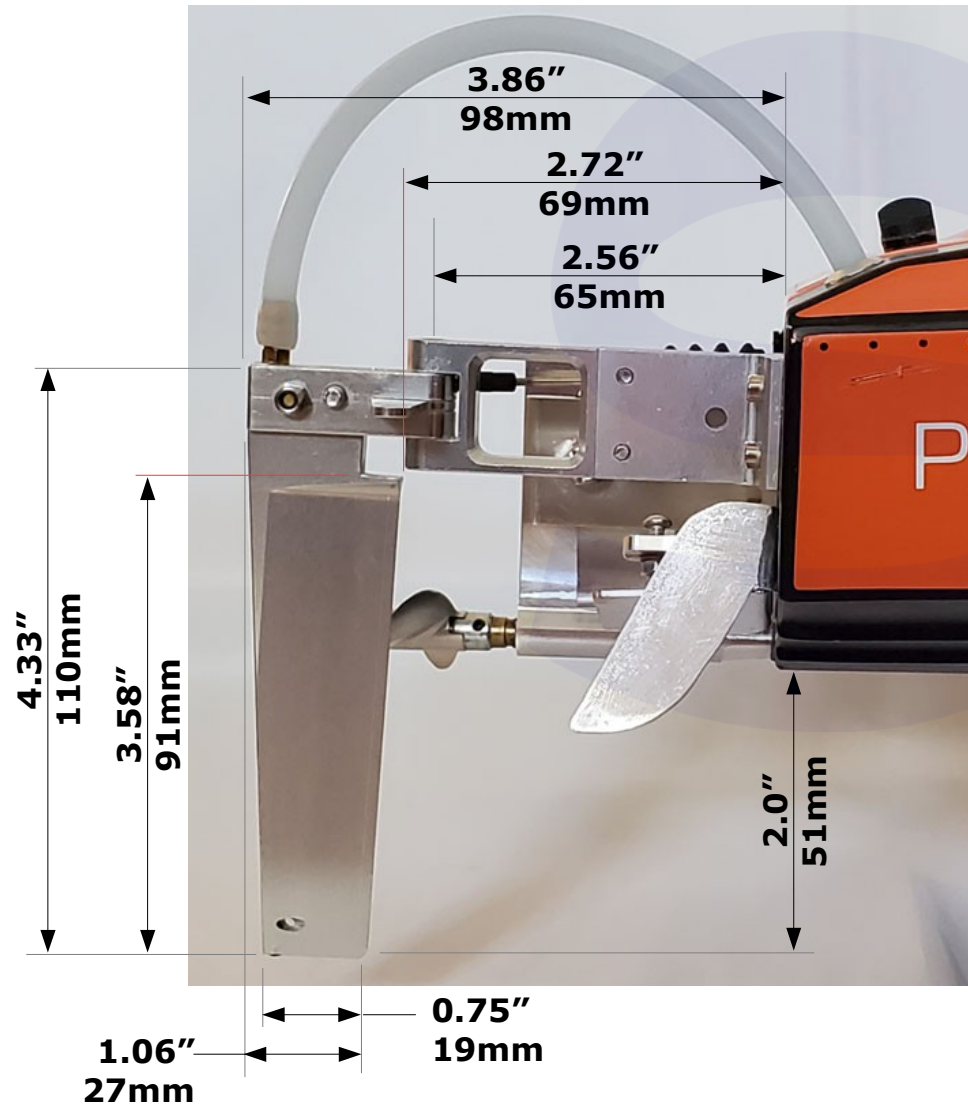




.150" flex cable with 1/4" (.250") O.D. K&S brass stuffing tubing w/teflon liner & 3/16 prop

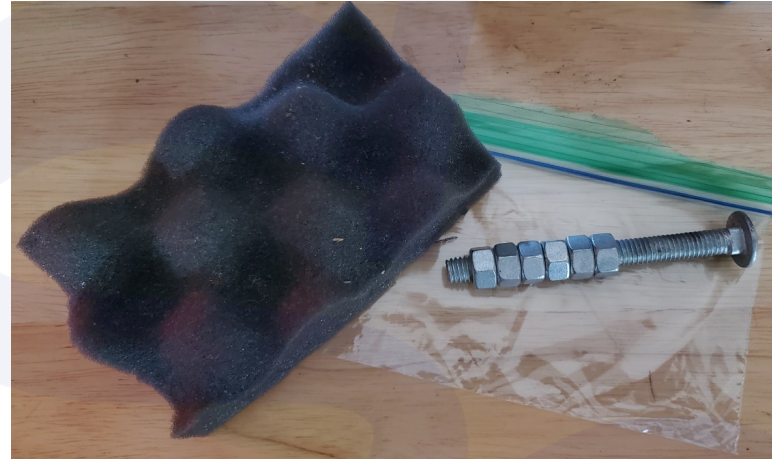
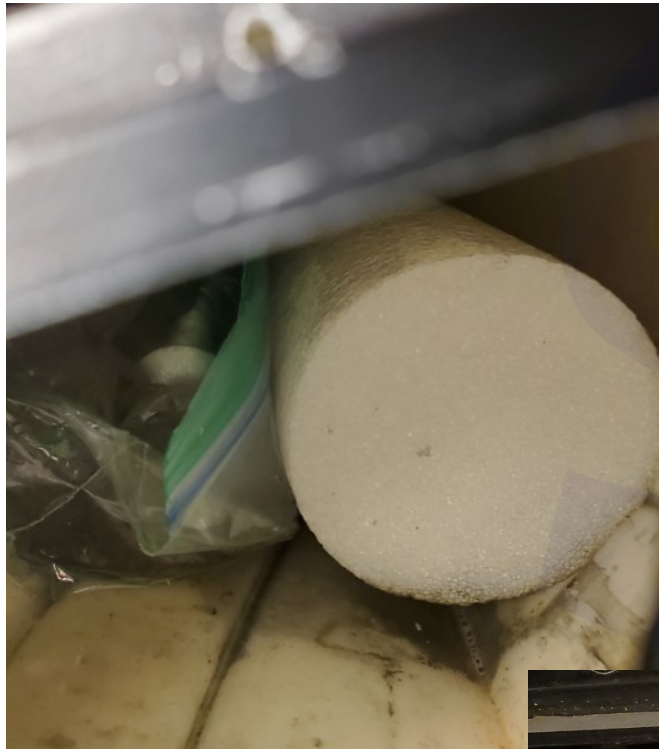
End of stinger/strut/stuffing tube is typically sticking out the transom 10% of the length of the boat  
Stock stuffing tube end was approx. 5.5% at 1-1/4" / 31.8mm. Target is up to 2-1/4" / 57mm

**New Speedmaster 21 strut is approx. 9% at 2" / 52mm**

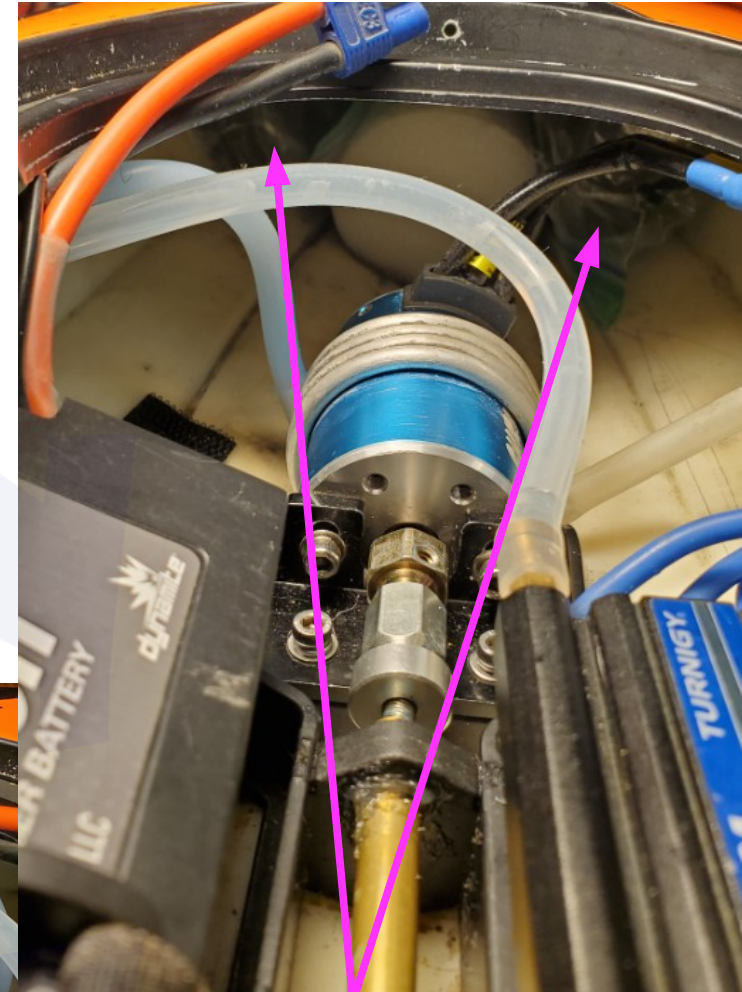


strut is 2", stinger is 3-1/8"  
stock is 1-1/8"

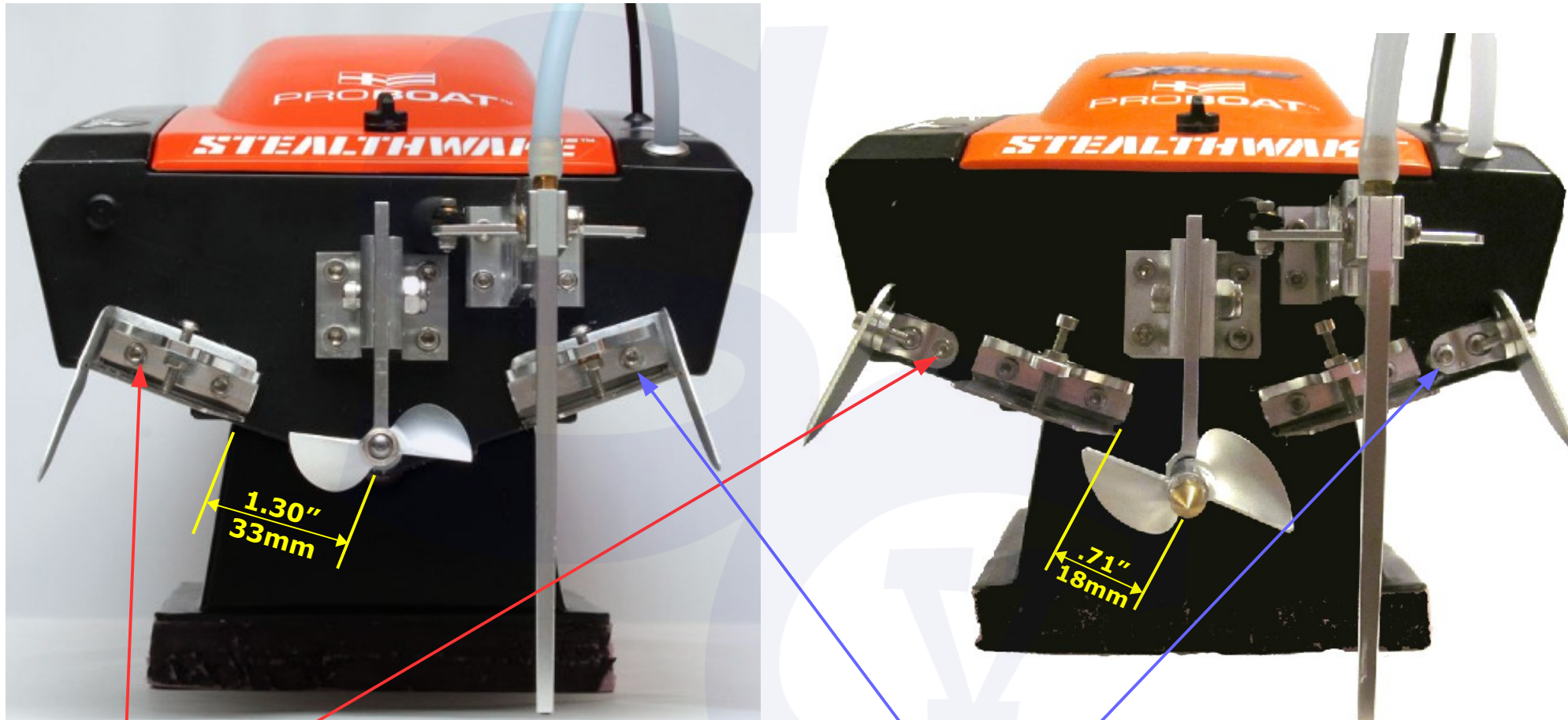
**2X of 3/8" x 4" Galvanized Carriage Bolts with 6 (six) 3/8"-16 Galvanized Hex Nuts wrapped in foam in a ziploc bag = 3.5oz**



**3.5oz x 2 = 7oz [198g] total in bow  
one on each side of foam floatation**



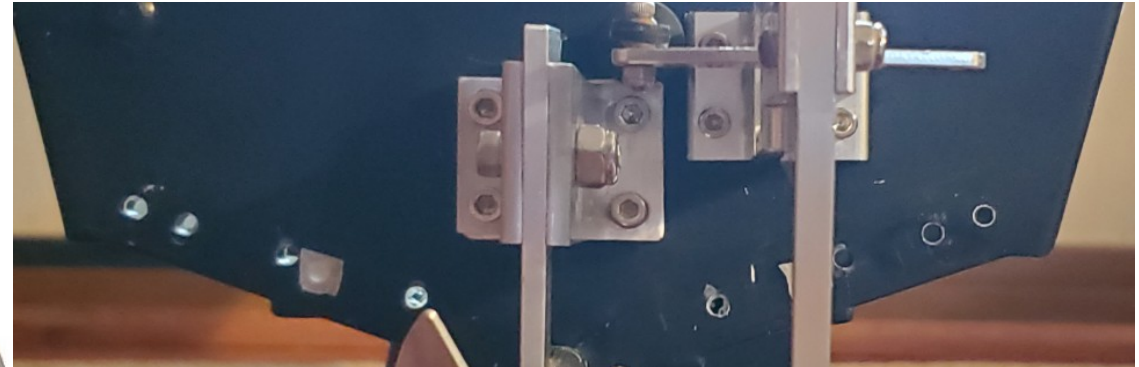
**With 7oz [198g] weight in the bow & battery  
at front of battery tray:  
2-cell 5000mAh LiPo, CoG = 7-5/8" (33%)  
3-cell 6500mAh LiPo, CoG = 7-3/8" (32%)**



Replaced the included M3 trim tab screws with 20mm long hex heads  
The outside hole of the original trim tab is the inside hole of the new turn fin on both sides  
ose-80077 Angled Trim tabs (pair) – same ones that have been on  
ose-80060 One set Metal Turn Fins, small - new ones just added

**UPGRADE 2.5 :** Bow weight did not work so moved trim tabs and added turn fins

**UPGRADE 2.5 :** Bow weight did not work so moved trim tabs and added turn fins



Filled one hole on each side from the original trim tabs (inboard hole)  
Drilled 2 new holes for trim tabs & 1 new hole for turn fins

## Stealthwake #1



Center of Gravity (CG) for a mono-hull is roughly between 25% [5.75" / 146.3mm] and 35% [8.1" / 205.7mm] of boat's length measured from transom

### **CG Measured from transom w/2-cell 5200mAh LiPo:**

- A = 6-3/16" (27%) [battery at rear of battery tray]
- B = 6-1/4" (27.2%) [battery at front of battery tray]
- C = 6-7/8" (30%) [back of battery even with back of motor]
- D = 7-3/8" (32%) [front of battery even with front of motor]
- E = 7-5/8" (33%) [battery pushed forward to foam block]

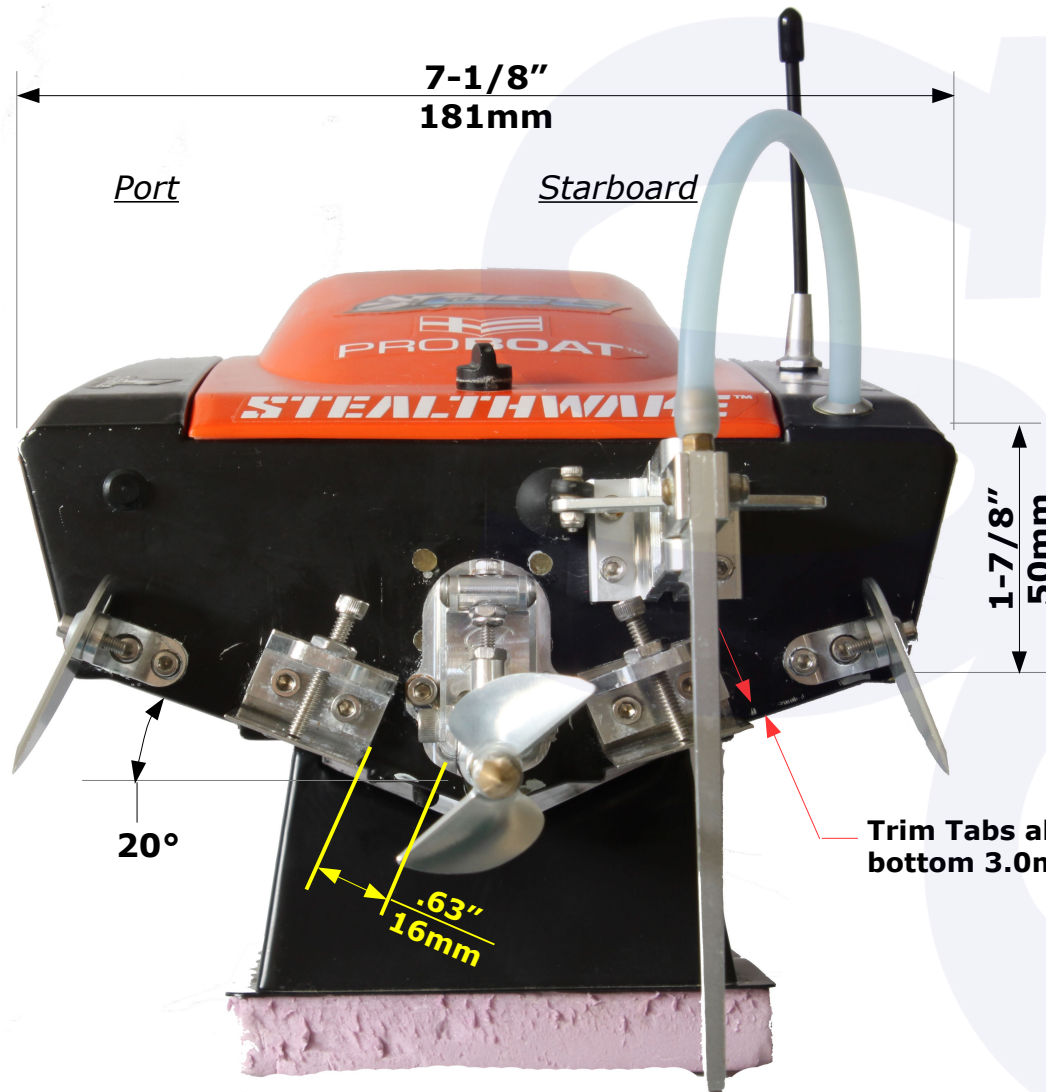
*(CG information is summarized from several sources indicating CG should be somewhere in the range stated above, usually around 30% ± 3%)*



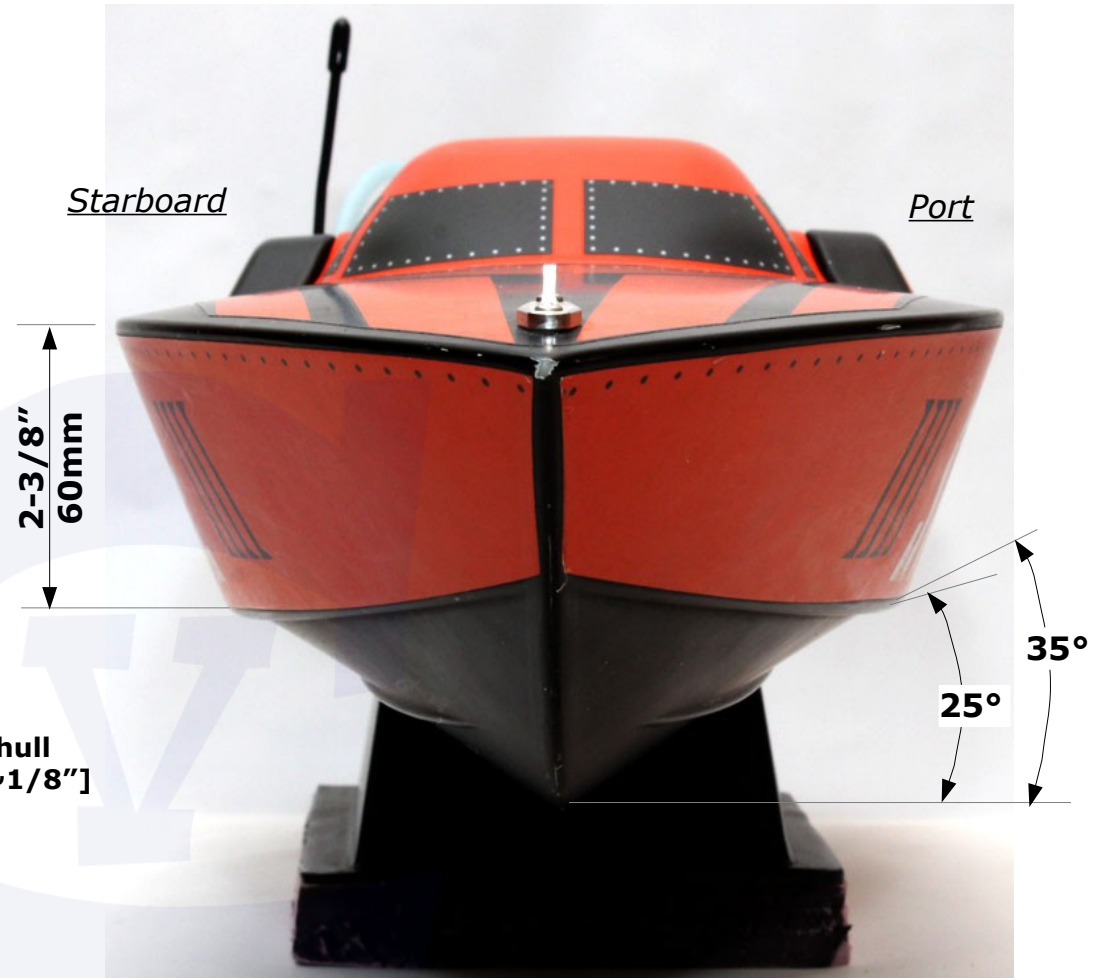


**Upgraded Prop Size is 1.4 pitch x  $\varnothing$ 44mm = 2.45/62 pitch**  
Stock Prop Size is 1.6 pitch x  $\varnothing$ 40mm = 2.5/63.5 pitch

**"Hull Height" per Horizon Hobby = 4.5" / 114.3mm**  
**Hull Material = ABS**  
**Upgraded weight w/hatch & no battery = 2.85 lbs / 1.29kg**

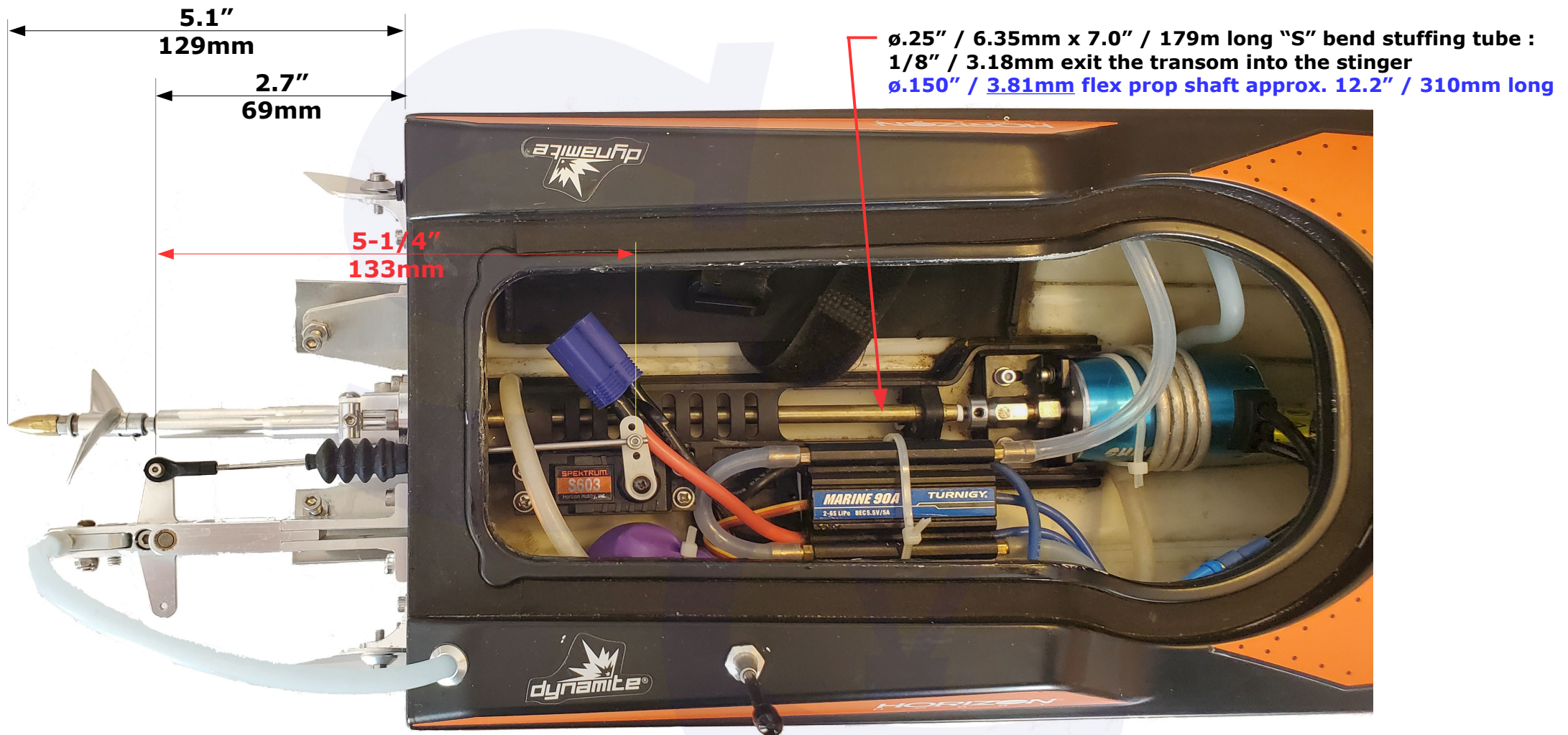


"V" angle/Deadrise at stern =  $20^\circ$  (measured)



"V" angle/Deadrise amidships  $\approx 25^\circ$   
"V" angle/Deadrise at bow  $\approx 35^\circ$



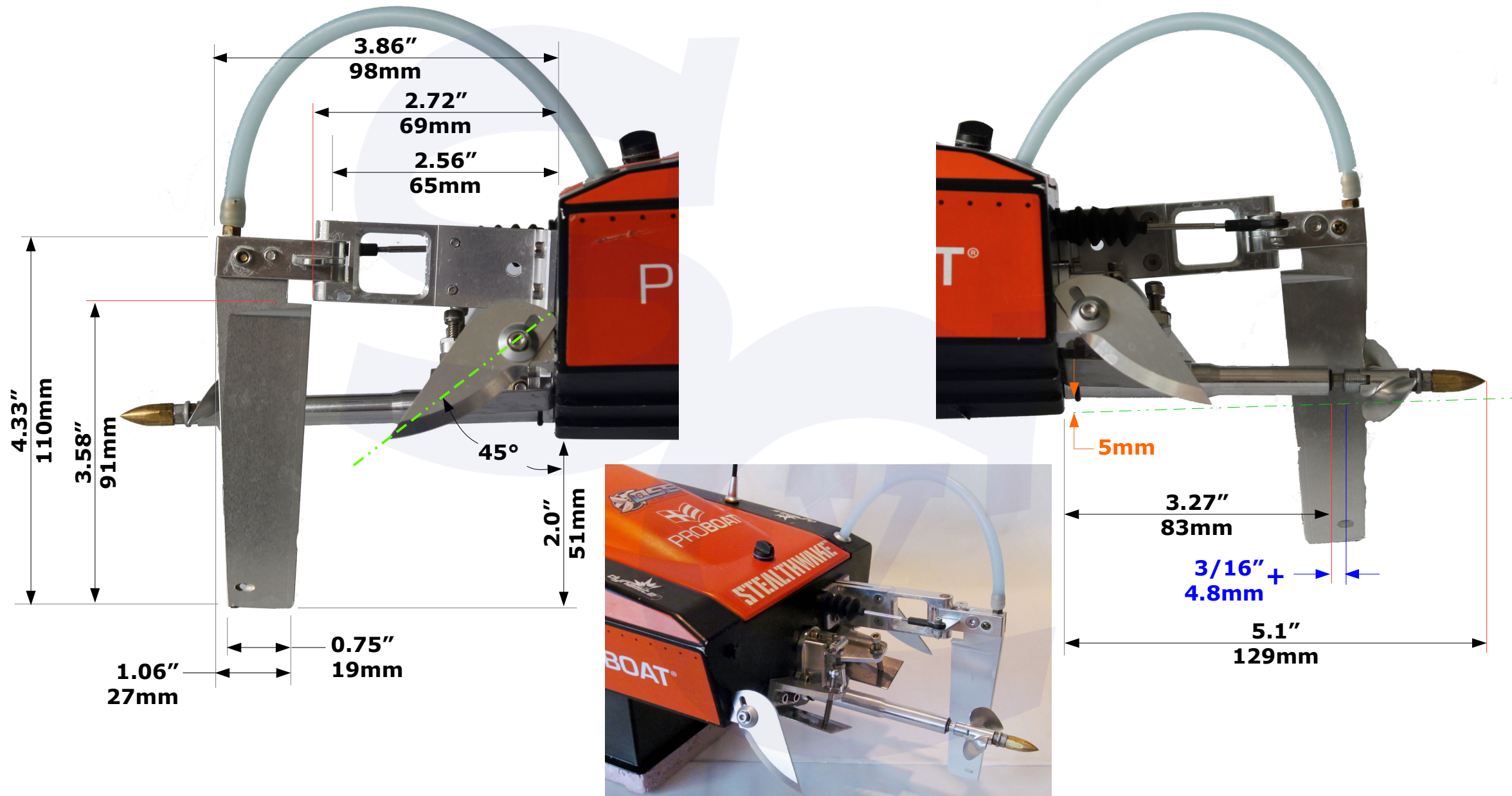


.150" flex cable with 1/4" (.250") O.D. K&S brass stuffing tubing w/teflon liner & 3/16 prop

End of stinger/strut/stuffing tube is typically sticking out the transom 10% of the length of the boat

Stock stuffing tube end was approx. 5.5% at 1-1/4" / 31.8mm. Target is up to 2-1/4" / 57mm

**New Speedmaster Stinger Strut is approx. 14% at 3-1/4" / 83mm**



## Stealthwake #2



Center of Gravity (CG) for a mono-hull is roughly between 25% [5.75" / 146.3mm] and 35% [8.1" / 205.7mm] of boat's length measured from transom

**CG Measured from transom w/2-cell 5200mAh LiPo:**

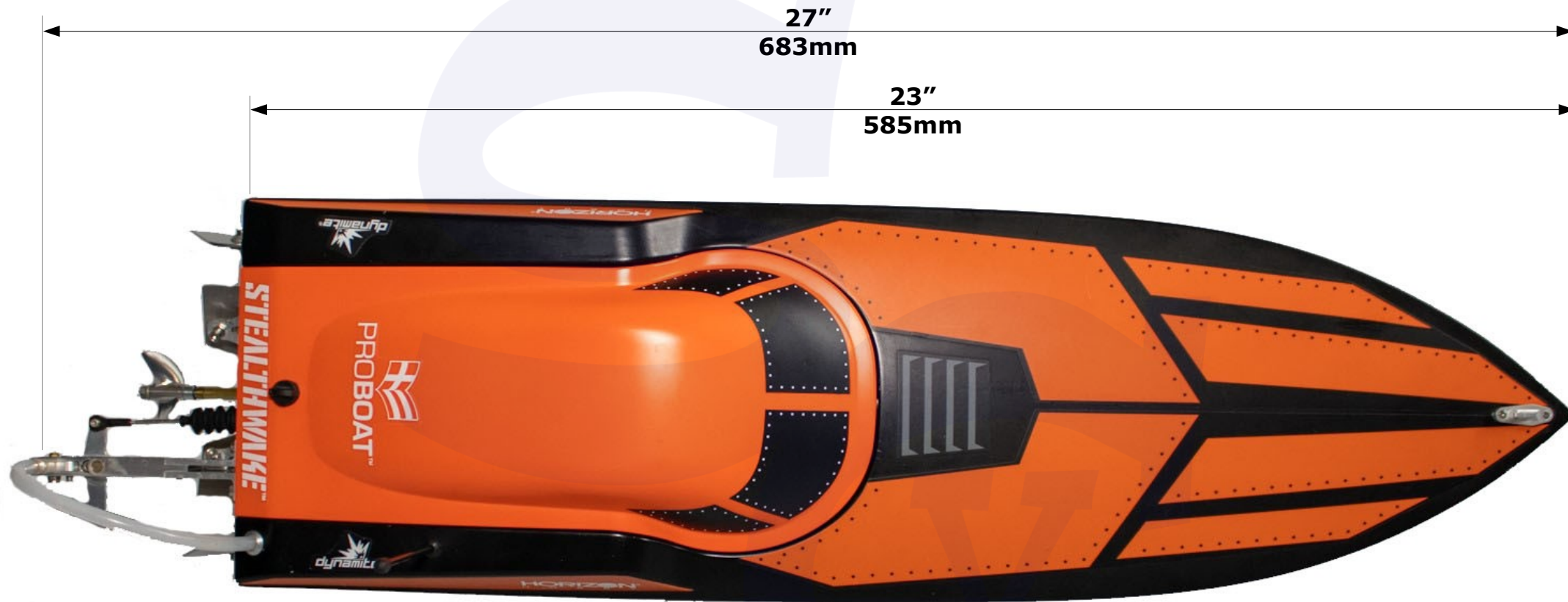
A = 6-1/4" (27%) [battery at rear of battery tray]

B = 6-1/2" (28%) [battery at front of battery tray]

(CG information is summarized from several sources indicating CG should be somewhere in the range stated above, usually around 30% ± 3%)



Stealthwake 2 measurements-upgrades

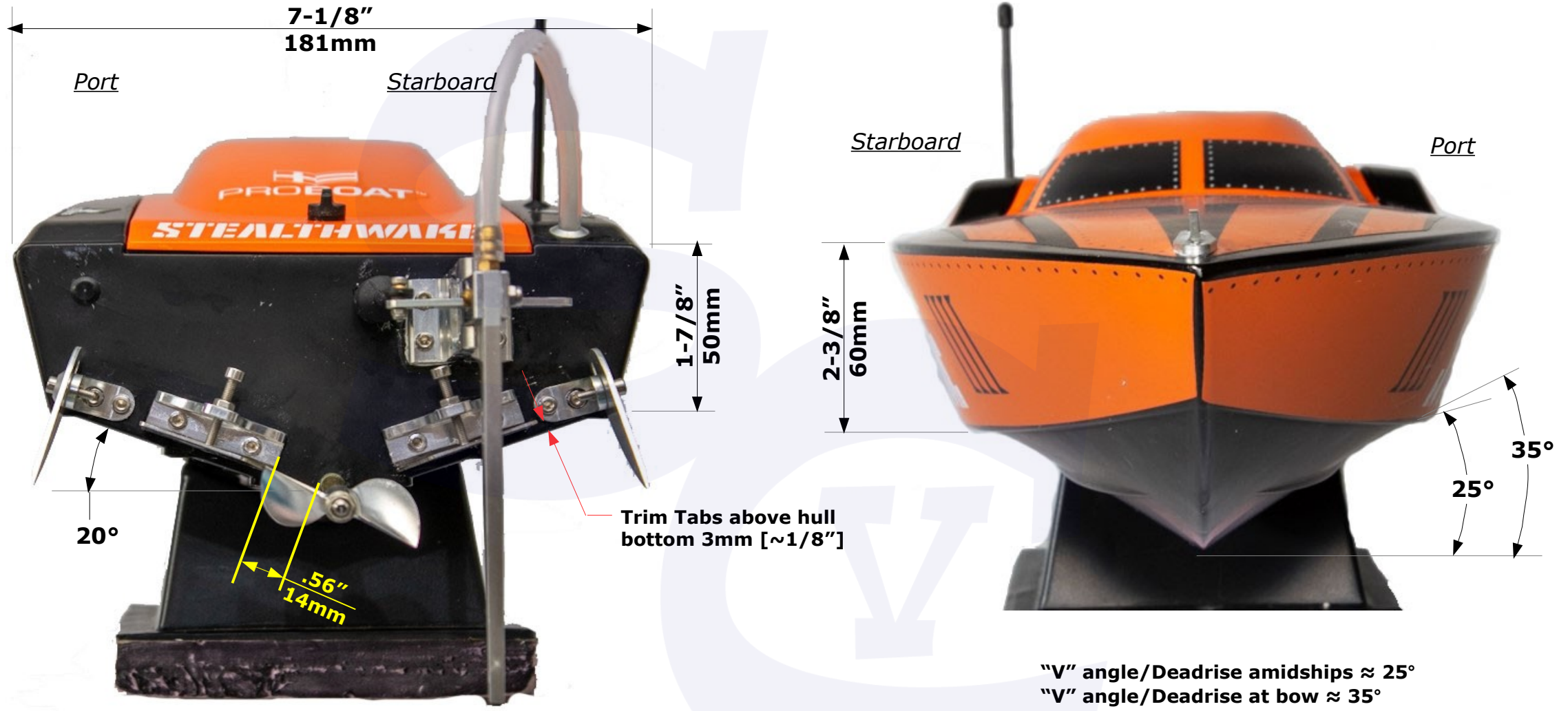


**Upgraded Prop Size is 1.6 pitch x  $\varnothing$ 44mm, de-tongued = 2.77/70.0 pitch**  
Stock Prop Size is 1.6 pitch x  $\varnothing$ 40mm = 2.5/63.5 pitch

**"Hull Height" per Horizon Hobby = 4.5" / 114.3mm**  
**Hull Material = ABS**

**Upgraded weight w/hatch & no battery = 2.76 lbs / 1.25kg**

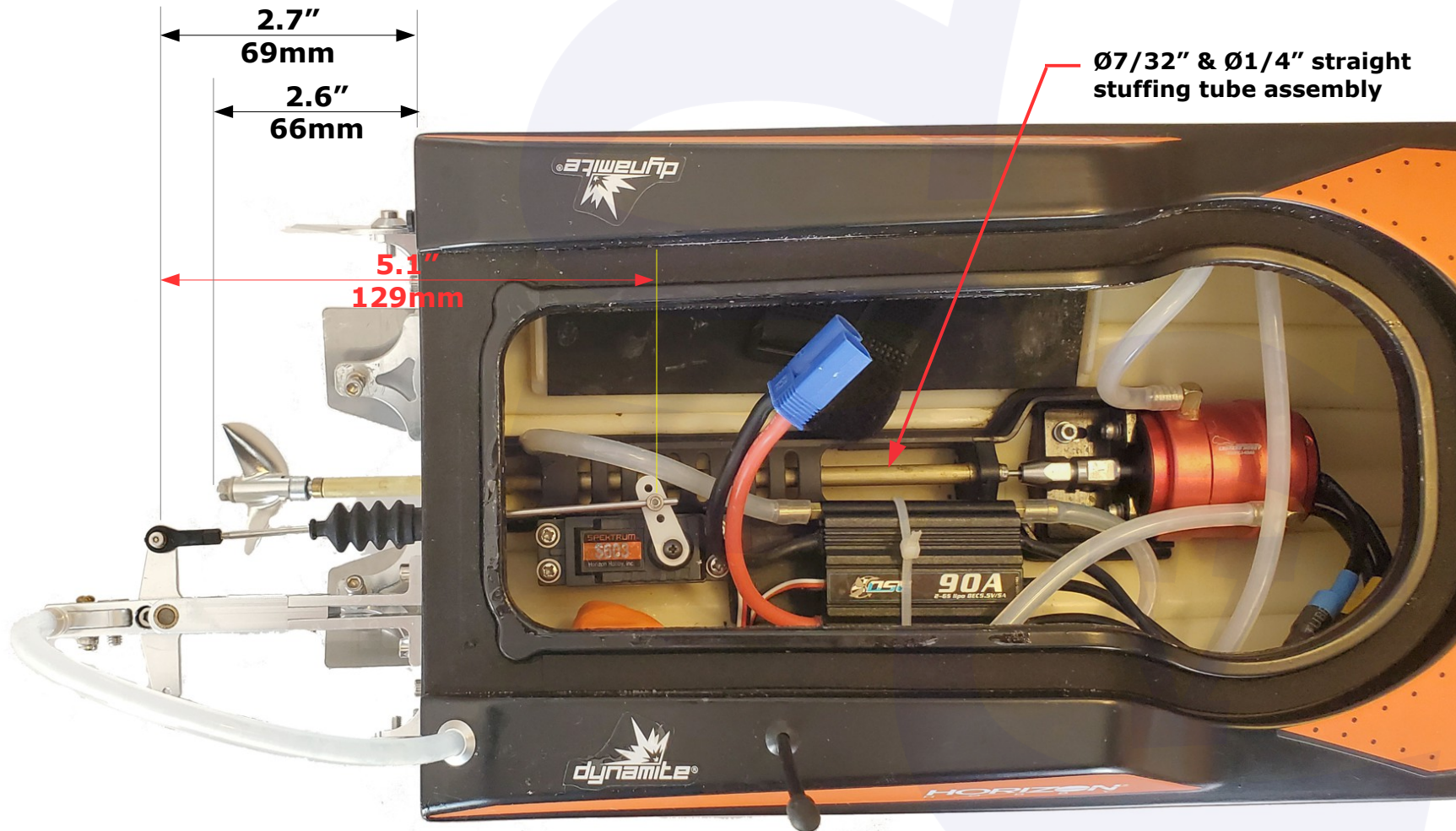
Stealthwake 2 measurements-upgrades



**"V" angle/Deadrise at stern = 20° (measured)**

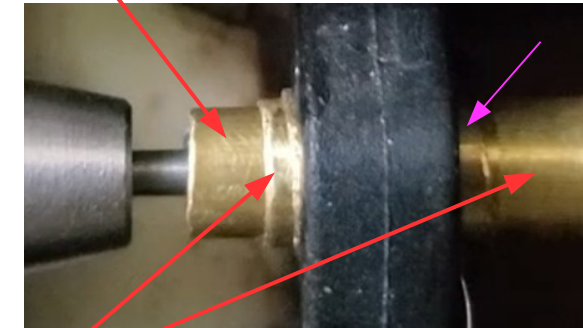
**"V" angle/Deadrise amidships ≈ 25°**  
**"V" angle/Deadrise at bow ≈ 35°**

"Deep Vee models are the best type of Mono for heat racing. They handle traffic and rough water conditions very well. Vee angles ranging from 19 degrees to 23 degrees seem to work best for heat racing. Shallow vee boats are faster on calm water and deeper vee boats work best in rough water." (see "stock" tab for source)



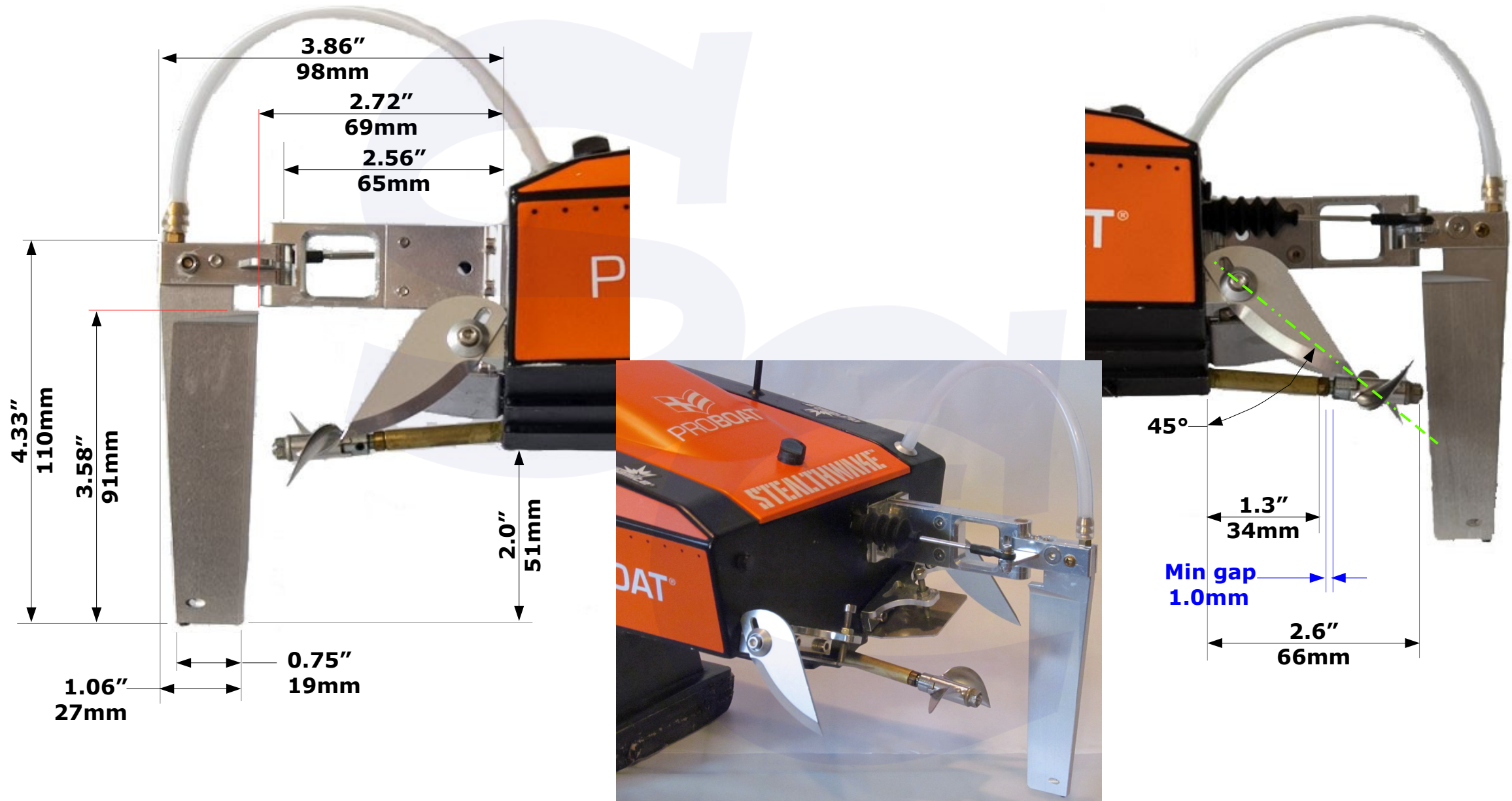
Ø7/32" & Ø1/4" straight stuffing tube assembly

Ø7/32" x 7.0" long straight stuffing tube with teflon liner inside  
 ø.078" / 2.0mm piano wire w/  
 3/16" x 2-1/4" prop shaft. Total length ≈ 10.3"



Ø1/4" x 8-1/4" long straight stuffing tube (pressed into a short length of Ø9/32" tube for centering) with Speedmaster floating bushing in the end, butted up to the 7/32 tube : 1.3" / 34mm exit the transom

Ø.078 Wohlt Piano Wire Drive with 2.25" long 3/16" prop shaft with 7/32" O.D. K&S brass stuffing tubing w/teflon liner  
 End of stinger/strut/stuffing tube is typically sticking out the transom 10% of the length of the boat  
 Stock stuffing tube end was approx. 5.5% at 1-1/4" / 31.8mm. Target is up to 2-1/4" / 57mm  
**Wire Drive stuffing tube is approx. 6% at 1.3" / 34mm & with floating bushing, it is 6% at 37mm**



Test runs Stealthwakes 1 & 2

**Pro Boat Stealthwake #1 Test runs with Dynamite Reaction 5000mAh, 30C, 2-cell LiPo (7.4 volt) battery**

Comments	Speed (mph)	Brand	Prop	Dia. (mm)	Ratio	Pitch (mm)	Run time	AMP Max	Watt Max	RPM Max	Volt Max	Theory Max RPM	Date	Air Temp. °F	Wind (mph)	Water Temp. °F
Stock 12T 550 w/LiPo	16	Pro Boat	PRB282017	40.6	1.6	64	N/A	N/A	N/A	N/A	N/A	N/A	07/25/19	?	?	?
3900KV BL w/LiPo	26	Pro Boat	PRB282017	40.6	1.6	64	N/A	N/A	N/A	N/A	N/A	N/A	07/26/19	?	?	?
2600KV BL w/LiPo (final)	22	OSE	ose-2bld-3.17	35.0	1.4	49	N/A	N/A	N/A	N/A	N/A	N/A	10/03/19			
BL w/LiPo	25	Pro Boat	PRB282017	40.6	1.6	64	N/A	N/A	N/A	N/A	N/A	N/A	10/03/19	?	?	?
1 <sup>st</sup> run w/strut	?	CNC	cnc-4016-D	40	1.6	63.8	7.5 min	34.4	239.4	17,160	7.8	20,384	11/28/20	~ 50°	~ 8	?
still difficult to control	?	Graupner	K 2317.42	42	1.4	59	1 min	37.1	279.4	16,920	8.4	21,736	04/03/21	71	10 steady	45°+
Ran well w/trim tabs adj	?	Graupner	K 2317.42	42	1.4	59	2 & 5 min	36.4	274.8	17,460	8.3	21,450	04/03/21	71	10 steady	45°+
flipped 3x – all parts cool	?	Graupner	K 2317.42	42	1.4	59	~ 6 min	N/A	N/A	N/A	N/A	N/A	04/04/21	77	S15 G24	
ran well	24	Graupner	K 2317.42	42	1.4	59	30 sec	38.2	287.3	16,320	8.4	21,788	04/11/21	50	5 steady	?
ran well but porpoised	28	Graupner	K 2317.45	45	1.4	63	1 min	45.3	329.8	16,320	8.3	21,528	04/11/21	50	5 steady	?
slow to plane but ran well	23	CNC	cnc-4016-D	40	1.6	64	45 sec	34.3	255.2	17,820	8.2	21,190	04/11/21	50	5 steady	?
Stock Shockwave Did not fit shaft	N/A	Pro Boat	PRB282008	40.6	1.6	65	N/A	N/A	N/A	N/A	N/A	N/A	04/11/21	50	5 steady	?
never planed	x	CNC	cnc-4216-D	42	1.6	67	35 sec	28.7	213.0	17,460	8.0	20,852	04/11/21	50	5 steady	?
planed quickly, ran well	25	CNC	4219250	42	1.9	80	1 min	62.0	419.7	14,700	8.0	20,696	04/11/21	50	5 steady	?
ran well, no issues	N/A	Graupner	K 2317.42	42	1.4	59	3 min	36.4	263.2	16,860	7.6	19,734	04/11/21	50	5 steady	?
ran well but plugs got hot	N/A	CNC	4219250	42	1.9	80	3 min	57.2	378.1	13,860	7.3	19,032	04/11/21	50	5 steady	?
planed quickly, ran well @ LL	24	CNC	4414250	44	1.4	62	1 min	49.6	361.1	16,500	8.4	21,736	04/18/21	62	W12 G20	?
Comments	Speed (mph)	Brand	Prop	Dia. (mm)	Ratio	Pitch (mm)	Run time	AMP Max	Watt Max	RPM Max	Volt Max	Theory Max RPM	Date	Air Temp. °F	Wind (mph)	Water Temp. °F
1 <sup>st</sup> w/Stinger & new trim tabs w/battery forward	27	Graupner	K 2317.45	45	1.4	63	N/A	N/A	N/A	N/A	N/A	N/A	07/13/21	84	6	80
Stinger – ran fine	?	CNC	cnc-4816-D	48	1.6	77	2 min	63.7	462.5	14,700	8.4	21,736	07/19/21	84	NW 6 steady	80
Stinger – ran fine	26	OSE	ose-2bld-316	47	1.4	66	1 min	61.7	436.2	14,880	8.1	20,982	07/19/21	84	NW 6 steady	80
Stinger – ran fine	27	Octura	m445	45	1.4	63	1 min	55.5	392.2	15,420	7.8	20,332	07/19/21	84	NW 6 steady	80
Stinger – ran fine	22	CNC	4414250	44	1.4	62	1 min	44.9	319.2	16,200	7.7	19,994	07/19/21	84	NW 6 steady	80
very slow to plane, ran fine	23	CNC	4219250	42	1.9	80	2 min	36.3	261.7	17,040	7.6	19,734	07/19/21	84	NW 6 steady	80



Test runs Stealthwakes 1 & 2

**Pro Boat Stealthwake #1 runs with Zeeee 5200mAh, "100C", 2-cell LiPo (7.4 volt) battery**

Comments	Speed (mph)	Brand	Prop	Dia. (mm)	Ratio	Pitch (mm)	Run time	AMP Max	Watt Max	RPM Max	Volt Max	Theory Max RPM	Date	Air Temp. °F	Wind (mph)	Water Temp. °F
2 <sup>nd</sup> run with the new battery	25	CNC	4414250	44	1.4	62	10+ min	53.7	423.2	16,980	8.3	22,935	09/18/21	82	N7	85
45mm CNC-compare-44mm	25	CNC	4514251	45	1.4	63	~ 8 min	72.6	556.8	15,420	8.4	22,990	09/25/21	69	W13 G23	~ 80 ??
Sonicwake stock prop	26	Pro Boat	PRB282055	44	1.6	70	~12 min	49.8	380.2	16,980	8.4	22,990	10/02/21	78	S10	75

**Pro Boat Stealthwake #1 Test runs with Roaring Top USA 5000mAh, 45C, 3-cell LiPo (11.1 volt) battery**

Comments	Speed (mph)	Brand	Prop	Dia. (mm)	Ratio	Pitch (mm)	Run time	AMP Max	Watt Max	RPM Max	Volt Max	Theory Max RPM	Date	Air Temp. °F	Wind (mph)	Water Temp. °F
Strut: unstable, bounced, flipped	30 ??	CNC	4414250	44	1.4	62						0	05/16/21	~ 75	?	?
Stinger: To be tested in spring 2022		CNC	4414250	44	1.4	62						0				

**Pro Boat Stealthwake 2 Test runs with Dynamite Reaction 5000mAh, 30C, 2-cell LiPo (7.4 volt) battery**

Comments	Speed (mph)	Brand	Prop	Dia. (mm)	Ratio	Pitch (mm)	Run time	AMP Max	Watt Max	RPM Max	Volt Max	Theory Max RPM	Date	Air Temp. °F	Wind (mph)	Water Temp. °F
Stock 12T 550 w/NiMH	15	Pro Boat	PRB282017	40.6	1.6	64	N/A	N/A	N/A	N/A	N/A		05/29/21	60	8	?
Stock 12T 550 w/LiPo	20	Pro Boat	PRB282017	40.6	1.6	64	N/A	N/A	N/A	N/A	N/A		05/29/21	60	8	?
2600KV BL w/LiPo	20	Pro Boat	PRB282017	40.6	1.6	64		N/A	N/A	N/A	N/A		05/31/21	70	13	?
Leopard 2750KV, 90A OSE ESC w/LiPo. All else stock	23 ?	Graupner	K 2317.42	42	1.4	59	4 min	49.9	375.5	19,140	8.4	22,990	07/03/21	82	W12 steady	80
1 <sup>st</sup> w/wire drive & upgrades	23	Graupner	K 2317.42	42	1.4	59	~ 10 min					0	07/12/21	74	10	80
1 <sup>st</sup> w/wire drive & upgrades	22	CNC	cnc-4216-D	42	1.6	67	3 min	55.2	409.6	19,860	8.3	22,743	07/13/21	84	6	80
1 <sup>st</sup> w/wire drive & upgrades	25	CNC	4414250	44	1.4	62	2 min	55.7	398.3	16,980	7.8	21,560	07/13/21	84	6	80
additional prop tests	27	Octura	m445	45	1.4	63	2 min	71.6	516.2	15,600	7.9	21,670	07/17/21	84	10	80
26mph w/o meter	25	Graupner	K 2317.45	45	1.4	63	2 min	60.4	412.2	16,500	7.6	20,818	07/17/21	84	10	80
additional prop tests	27	OSE	ose-2bld-316	47	1.4	66	2 min	79.6	551.0	15,300	8.3	22,935	07/17/21	84	10	80

Test runs Stealthwakes 1 & 2

**Pro Boat Stealthwake 2 runs with Zeeee 5200mAh, "100C", 2-cell LiPo (7.4 volt) battery**

Comments	Speed (mph)	Brand	Prop	Dia. (mm)	Ratio	Pitch (mm)	Run time	AMP Max	Watt Max	RPM Max	Volt Max	Theory Max RPM	Date	Air Temp. °F	Wind (mph)	Water Temp. °F
1 <sup>st</sup> test with the new battery	29	Graupner	K 2317.45	45	1.4	63	5+ min	N/A	N/A	N/A	N/A		08/21/21	83	S14	85
<i>highest speed with Dynamite</i>	26	<i>Graupner</i>	<i>K 2317.45</i>	45	1.4	63	<i>2 min</i>	-	-	-	-		07/17/21	84	10	80
2 <sup>nd</sup> test with the new battery	25	CNC	4514251	45	1.4	63	7 min	87.4	663.4	17,940	8.3	22,880	09/18/21	82	N7	85
44mm CNC-compare-45mm	25	CNC	4414250	44	1.4	62	2.5 min	65.2	506.0	18,780	8.4	23,073	09/25/21	69	W13 G23	~ 80 ??
Sonicwake stock prop	28	Pro Boat	PRB282055	44	1.6	70	~ 10 min	64.1	484.0	18,300	8.4	22,963	10/02/21	78	S10	75
To be tested in spring 2022		CNC	cnc-4416-D	44	1.6	70						0				

**Pro Boat Stealthwake 2 Test runs with Roaring Top USA 5000mAh, 45C, 3-cell LiPo (11.1 volt) battery**

Comments	Speed (mph)	Brand	Prop	Dia. (mm)	Ratio	Pitch (mm)	Run time	AMP Max	Watt Max	RPM Max	Volt Max	Theory Max RPM	Date	Air Temp. °F	Wind (mph)	Water Temp. °F
1 <sup>st</sup> w/wire drive & upgrades	33	Graupner	K 2317.42	42	1.4	59	~ 10 min	N/A	N/A	N/A	N/A		07/12/21	74	10	80
Sonicwake stock prop	38	Pro Boat	PRB282055	44	1.6	70	7 min	91.8	1005.4	28,980	12.5	34,458	10/09/21	80	7	75