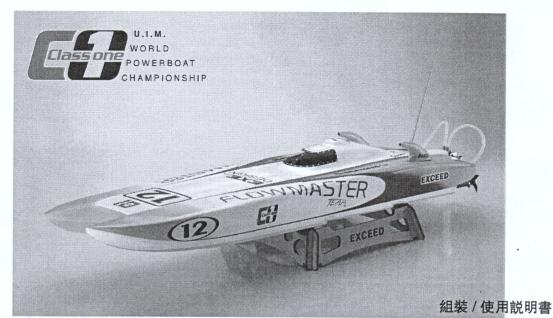
在動手組裝模型之前,請先詳細閱讀這本組裝使用説明書! Before beginning assembly, please read these instructions thoroughly!

LENGTH: 720mm (28.3') BEAM:173mm (6.8') BATTERY REQUIRE: 11.1V 2200-4500mAh



Don't use battery over 11.1v unless upgrade ESC! 請勿使用高于11.1v的電池,除非將ESC升級!



INSTRUCTION MANUAL

FLOWMASTER RACING BOAT



安全忠告及注意事項這是無綫電腦控模型并不是玩具

- 如果你是一名新手或者是第一次接觸遥控模型,請在組裝、操控模型前尋求 富有經驗的模型愛好者、模型店的幫助,以令商品的性能可完美發揮。
- 請勿在小孩可以觸及到的地方組裝、操控模型。
- 在操控道架模型之前請先確定好一個安全的場所,以及安全方面的準備工作, 因爲在模型的安全上你負有完全的責任。
- 請妥善保管好你的組裝説明手册。





\triangle

SAFETY PRECAUTIONS

This radio control model is not a toy.

- First-time builders should seek the advice of experienced modellers before commencing assembly and if they do not fully understand any part of the construction.
- Assemble this kit only in places out of children's reach!
- Take enough safety precautions prior to oper ating this model. You are responsible for this model's assembly and safe operation!
- Always keep this instruction manual ready at hand for quick reference, even after completing the assembly.
- •請按當地法規妥善處理好手頭上失效的可充、放電電池,請勿隨意弃置,因其可能含有對環境造成惡劣影響的成份。

•The product you have purchased is powered by a redhargeable battery. The battery is recyclable. At the end of its useful life, under various national / state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for redycling options or proper disposal.

REQUIRED FOR OPERATION 安裝要求配備

2頻道R/C模型無綫電遙控器, 附帶2伺服機及電池盒。 2 channel & 2 servo radio for R/C models, and battery box.

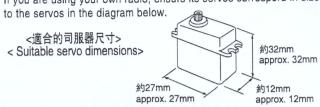
●以FUTABA遥控器爲例。

Explanations on the radio are based on the FUTABA radio.

■ 2頻道無綫電遥控器 2 channel radio or 標準的無綫接收裝置 with any other radio:

請你按以下圖表的尺寸,檢查你的司服器的體積 是否符合安裝要求。

If you are using your own radio, ensurs its servos correspord in size



Connects to ESC

■電池盒 Battery Box

●如果遥控器已附帶電池盒,就没有 必要另外購買。

If already supplied with the radio, there is no need to purchase a battery box separately.

■ AA-尺寸電池8個(發射機用) AA-size Batteries (For Transmitter) ... 8 Pcs.

*遥控器的使用方法請參閱遥控器附屬的使用説明書。 For proper radio handling, refer to its manual.

ELECTRONIC SPEED Connects to Motor CONTROLLER 電子調速器 DWET Water jacket 40A 2-3 CELL E.S.C. Connects to Receiver

Li-poly Rechargeable

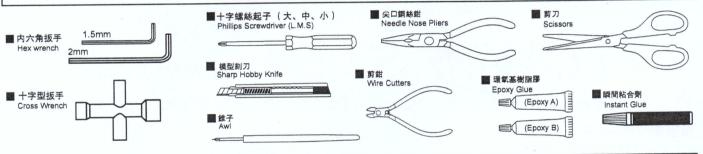
11.1V2200-4400mAh ≥ 200

Battery

2-3CELL BALANCE CHARGER 直流充電器 DC CHARGER

Connects to Charger

組裝時必須用到的工具 TOOLS REQUIRED



BEFORE YOU BEGIN 1) 組裝前的注意事項

在你開始組裝之前,請詳細閱讀這本説明手册,這樣 你將會有一個該做什麽的概念。

Read through the manual before you begin, so you will have an overall idea of what to do.

检查包装盒内所有的零部件, 如果發現有任何的瑕疵或 故障, 你可以聯絡當地的經銷商或直接與我們聯系。

Check all parts. If you find any defective or missing parts, contact your local dealer or our Dragon Hobby Distributor.

這本説明書所用到的符號:

Symbols used throughout the instruction manual, comprise:





將灰色部分剪切。 Cut of shaded portion

左右兩邊的裝配方法相同。 Assemble left and right sides the same way.



使用瞬間黏接劑黏接。 Apply instant glue (CA glue, super glue).



鑽孔 (這裏是: 2mm)。 Drill holes with the specified diameter (here: 2mm),



組裝時請注意這裏。 Pay close attention here!



另外購買 Must be purchased separately!



按指定的次數裝配(這裏兩次)。 Assemble as many times as specified (here: twice).



組裝後可順暢運動。 Ensure smooth non-binding movement while assembling.



剪切多餘的部分。 Cut off excess.



使用環氧樹脂膠合。 Apply epoxy glue.



試驗性的收緊螺絲。 Tentatively tighten.



按編號順序組裝。 Assemble in the specified order.



塗抹滑脂。 Apply grease.

禁止事項。



Do not do that!





組裝前注意 BEFORE YOU BEGIN (2)

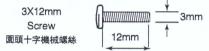
4 此套件包含許多不同種類的螺絲,下圖出示各種螺絲的尺寸大小供你參考。

This kit contains many screws in and other hardware different metric sizes and shapes. For your reference, the figures in the manual show actual sizes. (some screws are extras.)

● Types of screws: 螺絲釘的種類:

園頭十字機械 園頭十字自攻螺絲 内六角平端螺絲 内六角圓柱頭螺杆 screw Screw Self-tapping (TP) Screw Set Screw Cap Screw

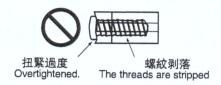
● How size of screw is given: 螺絲的尺寸:



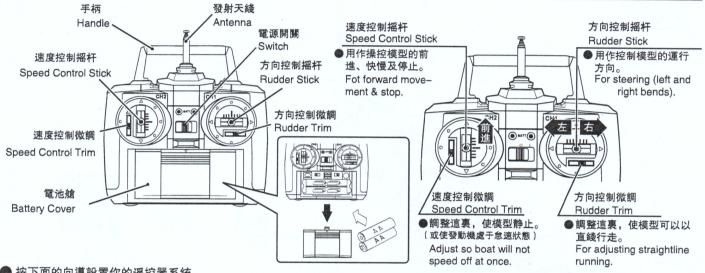
自攻螺絲是靠外力攻出螺紋進入部件,過度的力量將導 致部件永久損壞。建議當部件恰好接觸或當自攻螺絲完 全進入部件後,感覺有阻力時,應立即停止。

Self-tapping (TP) screws cut threads into the parts When being tightened. Excessive force may permanently damage parts when tightening TP screws. It is recommended to stop tightening when the part is securely attached or when some resistance is felt after the threaded portion enters the plastic.









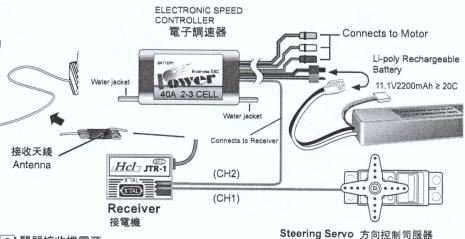
- 按下面的向導設置你的遥控器系統。 Set up a radio control system as indicated below.
 - 判 將各部件接頭連接好。 Plug in connectors.
 - **2** 安裝AA-尺寸電池。 Install the AA-size batteries.
 - 3 拉出遥控器發射機天綫,否側,遥控器的接收範圍將不能達到理想狀態。 Extend the transmitter antenna. If not, the range of the transmitter will not be sufficient!
 - 4 展開接收機天綫,否則,遥控器的接收 範圍將不能達到理想狀態。

Undo the receiver antenna. If not, the range of the receiver will not be sufficient!

- 5 將各微調的位置調整到中位(發射器)。 Center all trims. (Transmitter)
- 6 打開遥控發射器的電源開關。 Switch on. (Transmitter)
- 打開接收機的電源開關。 Switch on. (Receiver)
- 8 檢查選控器與司服器的動作是否 一致。

Check that the servos move according to your inputs. (Transmitter)

Connections when a E.S.C. DHP- P40A are used.

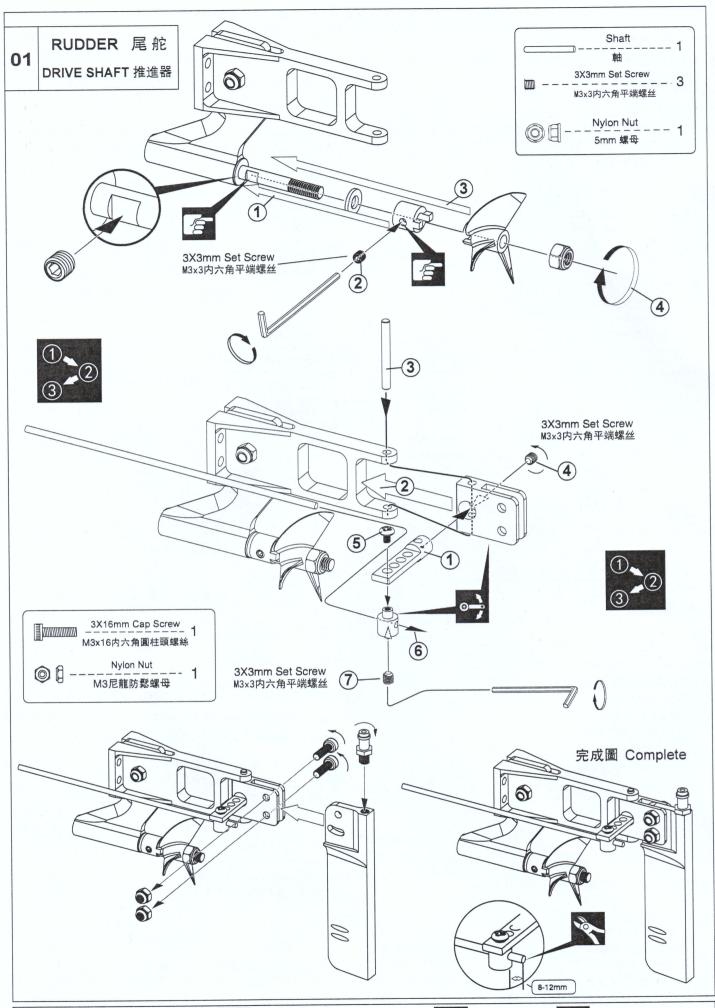


9 關閉接收機電源。 Switch off. (Receiver)

10 關閉發射器電源。 Switch off. (Transmitter)

11 收回發射器天綫。 Retract the antenna. (Transmitter) 在遥控器的使用上,除了以上所説到的,你還應該詳細閱讀遥控器所附帶的產品使用手册。

In addition to this page, read the instruction manual supplied with your radio as well.





按編號順序組裝。 Assemble in the specified order.



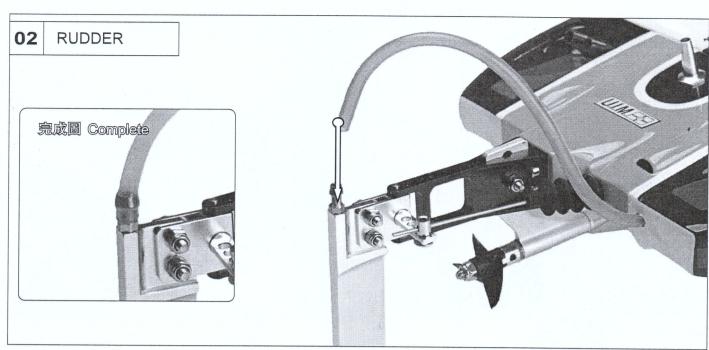
組裝後可順暢運動。 Ensure smooth non-binding movement while assembling.

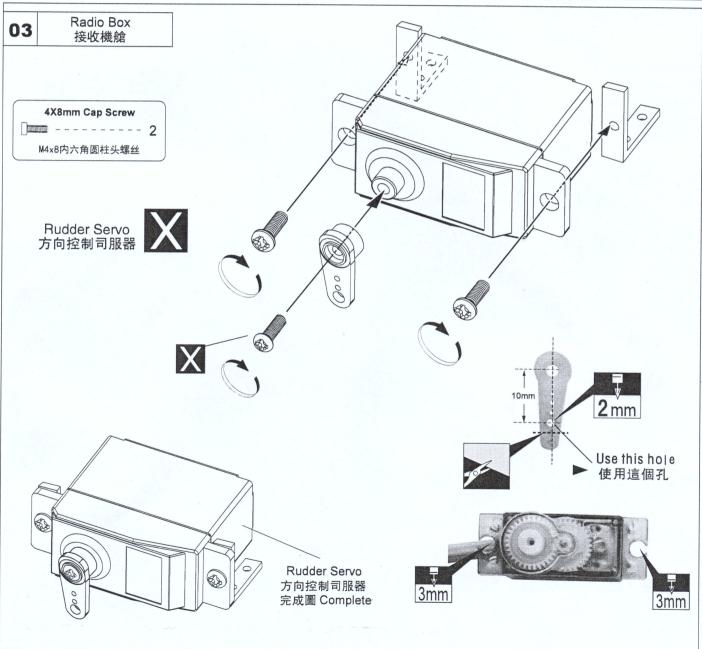


剪切多餘的部分。 Cut off excess.



組裝時請注意這裏。 Pay close attention here!



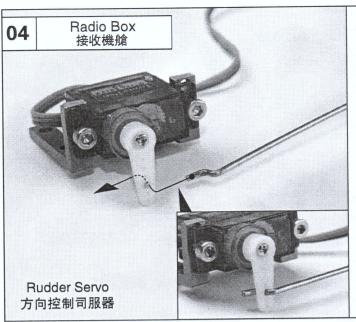


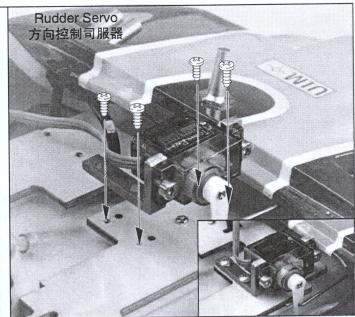




鑽孔 (這裏是: 2mm)。 Drill holes with the specified diameter (here: 2mm),

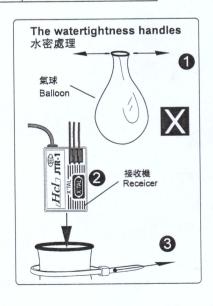




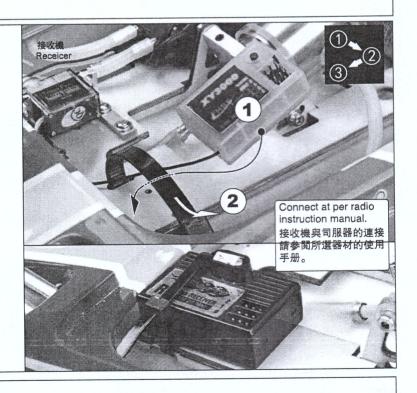


Radio Box 05 接收機艙 With the Rudder Stick in neutral. Rudder Servo 遥控器方向摇杆置于中立 方向控制司服器 位置時,方向舵與司服器的 90° 夾角成90度。 90° Rudder 方向舵 方向控制摇杆

Radio Box 接收機艙

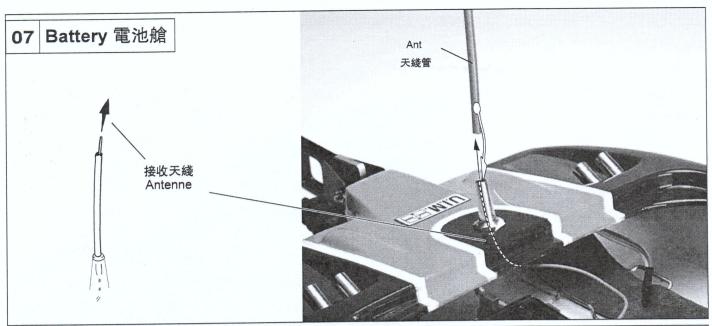


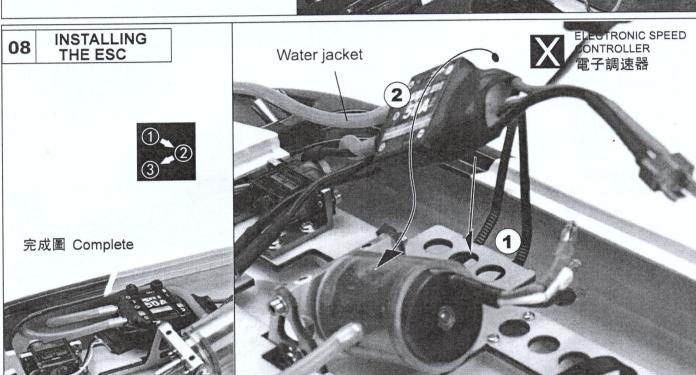
Rudder Stick

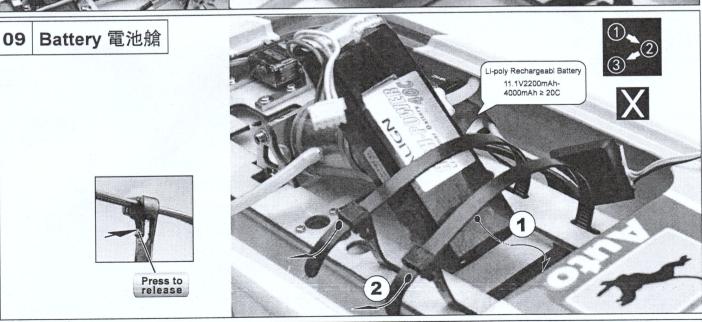




另外購買 Must be purchased separately!

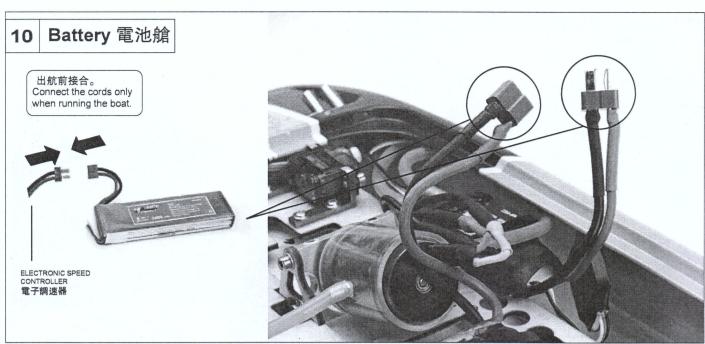


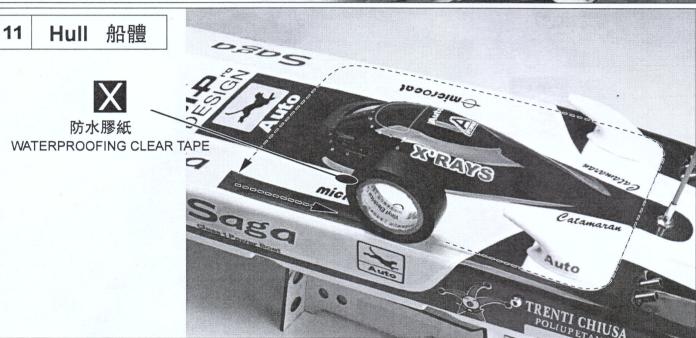


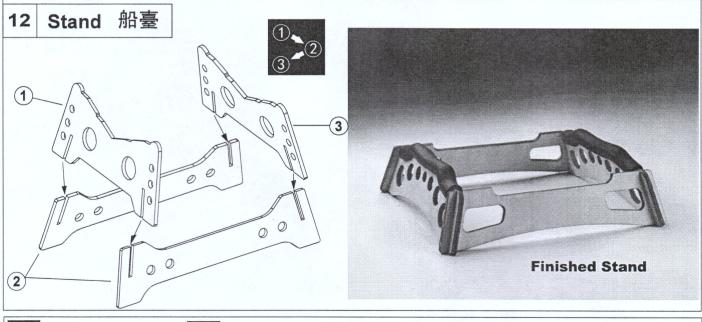














另外購買 Must be purchased separately!



按編號順序組裝。 Assemble in the specified order.

安全事項 OPERATING YOUR MODEL SAFELY



爲了避免意外事件和個人受到傷害,請認真參考及執行下列各項:
In order to avoid accidents and personal injury, be sure to observe the following:

籍着 R/C 遥控船,帶領你步入樂趣無窮的遥控世界。 在河流、湖泊操控遥控船之時,請留意其他正常航行的 船祇,做足安全措施,避免意外事件的發生。

With R/C boats, discover a new world of pleasure. Whether you run your boat on lakes, rivers or elsewhere, take precautionary measures to avoid accidents.

■ 請不要嘗試將你的手和其他物件靠近或 阻擋高速轉動的部件,因爲這樣 會造成無法稱補的傷害。

Do not put your hands or any objects into rotating parts, as this could result in serious accidents!

因爲電池和馬達在運行一段 時間後,會產生一定的熱量, 請待他它們冷却後再觸摸。

The motor and NI-Cd battery get hot from run- ning. Do not touch them for a while after runing.



充電中的 Ni-Cd 電池與充電器會産生高熱,請不要將他們靠近易燃物體,以避免之火警的發生。



Never put the charger and Ni-Cd battery near flammable material while charging as this may cause fires!

● 在以下的操作中,可能會令電池短路,從而觸發火警的 發生,或其他意外事件。

Under the following circumstances, short circuits may occur and result in fires or other accidents:

● 請不要將 Ni-Cd 電池分解、 改造。

When disassembling or modifying Ni-Cd batteries.





有爆炸的危險 EXPLOSIVE

■ 當 Ni-Cd 電池投入火中時, 會發生爆炸或產生有毒的氣體,這樣做非常危險, 絕對禁止!

Never dispose of Ni-Cd batteries into afire, as these can explode or emit noxious gases from heavy metals used in Ni-Cd batteries!





有爆炸的危險 EXPLOSIVE

● 爲預防事故的發生,不要在下列場合操控模型: For accident prevention, do not run your model under the following circumstances:

在人群聚集的地方。
in places where many people gather!

當江河漲潮、水位增高時,它們的涌流是非常强大的! when rivers are swollen or their current is strong!

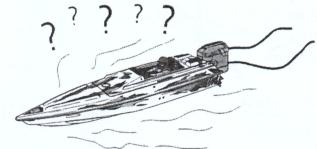
每個遥控模型操縱者在接通發射機開關之前,必先確認 周圍没有相同頻率的人。

Also make sure that nobody is using the same frquency as you do at the same time!



➤ 密切關注接收機的剩餘電量! with weak radio batteries!

▶ 當船體姿態、操控异常時! when the boat behaves or operates strangely!



● 當模型不使用時,請將遥控器及接收機的 電源切斷,并將 Ni-Cd 電池電源拔掉, 放到安全的地方。

When NOT using the model, always switch off the receiver and transmitter! Furthermore, disconnect the Ni-Cd battery and remove it from the model! This may lead to overheat and fires!



図 草 CHECK

● 不要隨意抛弃廢舊的 Ni-Cd 電池, 請將他們送回零售商店!

Do not dispose of Ni-Cd batteries! Returm them to the retail shop!

出航前檢查 PRE-RUN CHECKLIST

- □ 所有的螺絲有没有按要求上緊?
- □ 遥控器的電池有没有充滿電?
- □ 用作動力的Ni-Cd電池有没有充滿電?
- □ 方向舵動作是否與遥控器的設定一致?
- □ 速度控制裝置的動作是否與遥控器的設定一致?
- □ 用作動力的Ni-Cd電池是否安裝牢固?
- □ 航行的區域有没有安全隱患?
- □ 周圍有没有使用相同頻率發訊的人?
- □ 螺旋槳是否牢固可靠?
- □ 傳動部分有沒有塗抹潤滑油脂?
- □ 可轉動部分是否流暢運行?有否卡死?

- ☐ Are all screws securely tightened?
- ☐ Are the radio batteries fully charged?
- ☐ Is the Ni-Cd battery fully charged?
- □ Does the rudder operate according to your inputs on the transmitter?
- Does the speed controller operate according to your inputs on the transmitter?
- ☐ Is the Ni-Cd battery securely attached?
- ☐ Is the running area safe?
- ☐ Is nobody on your frequency when running at the same time in the same area?
- ☐ Is the propeller securely attached?
- ☐ Are all rotating parts greased?
- ☐ Can all moving parts move freely, without binding?

正確的操作步驟 PROPER OPERATING PROCEDURES



4 接上動力電池。 Connect the Ni-Cd battery.



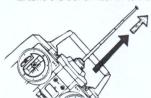
7 打開接收機的電源開關。 Switch on the receiver.



10 確定出航的區域安全可靠。 Make sure the running area is safe. 2 檢查發射器電池 Check the transmitter batteries



5 拉出發射機天綫。 Extend the transmitter antenna

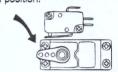


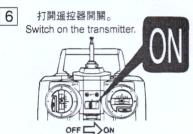
8 確定方向舵的操控方向與你設定的方向一致。

Make sure the rudder operates according to your inputs on the transmitter.

3 確認速度控制司服器在關的位置。

Ensure that the speed control servo is in off position.





9 確定速度控制器的動作與你在遥控器設定的動作一致。

Make sure the speed controller operates according to your inputs on the transmitter.









歸航後...

AFTER RUNNING...

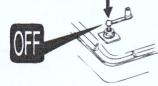
1 歸航後將船收起。 After finishing running, collect your boat.



分離動力電池。 Disconnect the Ni-Cd battery.



2 關閉接收機電源。 Switch off the receiver.



5 將船身的污垢擦净。 Remove dirt from the hull.



3 切斷發射機電源。 Switch off the transmitter OFF

當模型不使用時,請將發射機及接收機的電源關閉,并將動力電池從船身移開,因其可能令船身過熱或造成火險隱患。 When NOT using the model, always switch off the receiver and transmitter! Furthermore, disconnect the Ni-Cd battery and remove it from the model! This may lead to overheat and fires!



	日常維護 EVERYI	DAY MAINTENANG	DE
□ 確認螺絲等部件有没有上緊,其他部件有没有		☐ Make sure screws and nuts are securely tightened	
老化。 一 可轉動部件塗抹上滑脂。		and other parts are not worn. Grease all rotating parts.	
□ 檢查、整理連接綫纜有否破損,不要讓他們纏繞 在一起。		 Repair the wiring should cords be damaged or drag into rotating parts. 	
□ 應該將損壞的司服系統送回制造商修理。		Should servo cords and the receiver antenna be damaged, return them to the manufacturer for repair.	
□ 確定所有部件都完好無損。		☐ Make sure all pa	arts are neither worn nor damaged.
□ 將船體的污垢清除幹净。		Remove dirt from the hull.	
□ 排出船身的積水,讓其保持幹燥。		☐ Draw out water from inside the hull.	
	故障分	析及處理	
癥狀	原 因	[對策
速度控制司服器没反應。—————	發射機或接收機電源還没有	打開。————	將發射機或接收機電源打開。
	── 遥控系統安裝出錯。───		参考《遥控器安裝使用手册》重新安裝。
馬達不轉動。	── 雷池雷力不足。————		對雷池重新充電。
ハリノ王・ハ・キウ モル ○			
	── 馬達有問題。──		
馬達正常轉動但船不動。————	── 傳動機構安裝出錯或螺絲 ⁻ 鬆動。		將傳動機構的螺絲上緊。
用手轉動傳動部分時覺得很緊 ——— 或不轉動。	—— 傳動部分有污垢。————		清除幹净并塗抹滑脂。
將速度控制摇杆降低,但船 ———— 還是不停下來。	—— 不正確的遥控設備調整。—		調整速度摇杆微調。 或依照使用説明手册重新調整。
	TROUBLE	SHOOTING	
PROBLEM	CAUSE		REMEDY
Speed control servo does	Transmitter and/or receive		
not operate.			Replace with new batteries.Correct as per radio instruction
	Improper radio installation	1.	manual.
Motor does not rotate.	Ni-Cd battery capacity is	insufficient.	— Recharge Ni-Cd battery.
			Correct as per instruction manual.
	Loose connectors.	,	 Make connectors tighter (e.g. with minus screwdriver).
	Motor trouble.		Replace with new motor.
Motor rotates but boat will not run. —	— Joint is not installed. — Or, screws are loose.		Tighten screws holding joint.
When rotating by hand, propeller —feels heavy or does not rotate.	—— Dirt entered rotating parts	S	— Clean and regrease.
Even when releasing speed ————control, boat will not stop.	—— Improper linkage adjustm	ent.	 Adjust speed control trim on transmitter. Should speed controller not return to neutral, readjust linkages as per in- struction manual.

#10117 FLOWMASTER BRUSHLESS EP

Parts No.	Descrition	Unit
TEF3.2	TEFLON TUBE	
M10117027XA	FLEXIBLE DRIVE SHAFT	PCS
M10006013	SHAFT COUPLER 3.18mm	PCS
M10001020	DRIVE DOG 4*8mm	PCS
P10001000	PROP SPACER	PCS
P432-3	PROPELLER D32 * P1.4 3BLADE	PCS
M10117036	CNC STRUT & RUDDER SET 8.5mm	SET
P10006010	MOTOR WATER COOLER	PCS
P10001001	SILICON TUBE 50cm	PCS
M12001043	AL ANT HOLDER	PCS
M10001024X	CONTROL ROD SET	SET
P10001022	FLEX-ROD BOOTS (2PCS)	PAIR
W10117001	BOAT STAND	PCS
MT2848-2636	BRUSHLESS MOTOT B2848-2636KV	PCS
ESC50A	BRUSHLEES SPEED-CONTROLER	PCS
BER 4*7F	BALL BEARRING 4 * 7F	PCS
BER 4*7	BALL BEARRING 4 * 7	PCS
NUT4	PROPELLER NUT 4mm	PCS
W10117039	PLYWOOD BATTERY TRAY 5pcs	PCS
M10018014X	SERVO MOUNT 2PCS	SET
P12001002	ANT TUBE	PCS

