



1/8TH SCALE BRUSHLESS 4WD MONSTER TRUCK 1:8 無刷電動四驅大腳卡車



No.6401-F



This radio control model car is not a toy! Before beginning operation, please read this manual thoroughly.

本產品為高性能模型非一般玩具，操作前請詳閱本產品說明書。

The contents are subject to change without prior notice due to product improvements and specification changes.

本套件所附之零件可能跟圖示有所差異。因產品後續之設計研發或功能不斷改善之原因，我們將保留產品規格變更權力，不再另行通知使用者。

Instruction Manual 操作說明書

WARRANTY 品質保證事項

Thunder Tiger Corporation guarantees this model kit to be free from defects in both material and workmanship. The total monetary value under warranty will in no case exceed the cost of the original kit purchased. This warranty does not cover any components damaged by use or modification. Part or parts missing from this kit must be reported within 60 days of purchase. No part or parts will be sent under warranty without proof of purchase. To receive part or parts under warranty, the service center must receive a proof of purchase and/or the defective part or parts. Should you find a defective or missing part, contact the authorized Thunder Tiger Service/Distributor nearest you. Under no circumstances can a dealer or distributor accept return of a kit if assembly has started.

本公司對於製造過程中產生之瑕疵，負完全品質保證責任。

保證事項僅限於產品本身與隨產品所附之零配件。

品質保證不包含下列事項

因使用、組裝或調整本產品所發生之損壞。

其他所有非產品本身品質所造成之損壞。

INTRODUCTION 前言

Thank you for purchasing this Thunder Tiger product. This manual contains the steps and instructions required to assemble your car. Please read this manual completely before attempting to start maintenance. Follow the directions in this manual closely to reduce problems during operation. We offer online help on our www.acehobby.com or www.thundertiger.com and forums and our product specialists are ready to take your call if you have any technical questions. Have fun and enjoy the exciting world of R/C.

感謝您購買雷虎科技 MT-4 G3 無刷電動四驅大腳車。雷虎科技一向以提供最高品質的產品及服務作為持續努力的目標，並藉由參與競賽及重覆測試產品，不斷累積經驗，進而提昇設計及製造品質，期望能呈現給您最頂級之工藝產品。本使用說明書包含了組裝及維修本產品前所需要注意的重要事項，建議您在開始組裝及維修本產品之前，能詳閱此說明書，並熟悉本產品之組裝步驟及維修程序。若是您在產品的使用上有任何的疑問，歡迎多加利用我們所提供的24小時諮詢留言版或洽詢雷虎科技授權經銷商。雷虎科技的全球英文網址為 www.thundertiger.com，我們將竭誠為您服務！

CAUTION 注意事項

1. This product is not a toy. It is important to familiarize yourself with the model, its manual, and its construction before assembly or operation.
2. Always keep this instruction manual for your assembling and operating reference.
3. Do not operate model products in rain, on public roads, near airport, or near areas with restricted radio operation.
4. This product, its parts, and its construction tools can be harmful to your health. Always exercise extreme caution when assembling and/or operating this product. Do not touch any part of the model that is rotating.
5. Use an adequate charger for the batteries and follow the instruction correctly.
6. Right after use, do not touch the motor or ESC because they may generate high temperatures!
7. Do not stall the motor. The ESC may fail if power is applied to the motor when car cannot move freely.
8. By the act of assembling or operating this product, the user accepts all resulting liability. If the buyer is not prepared to accept this liability, then he/she return this product in new, unassembled, and unused condition to the place of purchase.

⚠ WARNING ! To avoid a possible fire hazard, ALWAYS unplug the battery after use. Do NOT leave your vehicle unattended with the battery plugged in.

感謝您購買雷虎科技產品，在您開始操作本產品前，請詳閱本產品說明書。

1. 本產品為高性能模型產品非一般玩具，組裝與操作過程皆須由成人陪同。請詳讀此本使用說明書，避免因組裝錯誤與操作不當造成損壞。
2. 請妥善保管此說明書，對於後續維修、操控說明將可提供您協助。
3. 請勿於雨天、公眾空間、道路、機場附近與其他限制遙控模型活動區域，操控本項產品。
4. 此項產品具有相當之危險性，於組裝、調整、操控上的不熟悉都可能造成自身或他人的傷害，當發生這些傷害事件時製造商是可以免除責任的，建議您於初次使用本產品前，先行請教具有相當程度經驗同好或是專業雷虎經銷商與模型專賣店。
5. 請使用合格之電池充電器並遵循說明書之使用規範，以免發生危險。
6. 車輛操作後，請小心誤觸碰到會產生高溫之零件部分，以避免燙傷。
7. 車輛作動時，請勿以異物強制停止馬達(輪胎)以避免電子速控器超出承載負荷而失效。
8. 如使用者對於產品品質或操作組裝上所須負擔之風險有任何疑慮，請勿開封組裝或進行操作本產品並將產品退回原購買地點。

⚠ 警告！為避免因電線短路等因素而引起之可能災害，請務必於操作本產品後，將電池接頭拔除以避免可能發生之危險！請勿在電池接頭未經拔除前就將產品儲藏於無法留意之處。

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ITEMS REQUIRED FOR OPERATION 周邊配件

RTR CONTENTS 完成車輛配備



ACE RC Cougar PS3i
3-Channel digital 2.4GHz pistol radio system
with Standard Servo.
3動作發射機、接收機及伺服機



Hex Wrench Set, 1.5mm / 2.0mm / 2.5mm / 3.0mm / 5.0mm
六角扳手, 1.5mm / 2.0mm / 2.5mm / 3.0mm / 5.0mm



Battery Cord
電池接線



5-Way Wrench
5向六角螺帽套筒板手



ACE RC BLC-150C Brushless Motor ESC
車用無刷馬達速控器150A



RIPPER IBL40/20 Brushless Motor
車用無刷馬達 2000 KV

EQUIPMENT NEEDED 需求配件

(Not included in the kit 不包含在此套件內)



AA Alkaline Dry Batteries
8 pieces for Transmitter
發射機用電池



No. 8082
BLC ESC Program Card
速控器設定卡



No. 2537
T6AC Battery Balance Charger
(for Ni-MH/Li-Po)
鋰電池充電器 (鎳氫用/鋰電用)



7.4V Battery Pack x 2
7.4V 充電電池條 x 2

No. 2843 Li-Po Battery Pack,
7.4V/5000mAh/35C(Hard Case)
鋰電7.4V/5A/35C硬殼

TOOLS NEEDED 需求工具



Hex Head Screwdriver
六角起子
No.1149 2.0mm
No.1150 2.5mm
No.1151 3.0mm



Temp.Gun
測溫槍

1 CHARGING THE BATTERY PACK 電池包充電

(Battery and Charger are not included in the kit. 本產品不含電池及充電器)

Before charging the battery, read the instructions for the battery and battery charger.

準備充電前，請先詳閱電池及充電器的操作說明。

LiPo BATTERIES 鋰電池充電注意事項

Lithium Polymer (LiPo) batteries are becoming popular for use in R/C models due to their compact size, high energy density, and high-current output. However, these types of batteries require special care and handling procedures for long life and safe operation.

⚠ Warning ! Lithium Polymer (LiPo) batteries are intended only for advanced users that are educated on the risks associated with LiPo battery use. THUNDER TIGER/ACE RC does not recommend that anyone under the age of 16 use or handle LiPo battery packs without the supervision of a knowledgeable and responsible adult.

⚠ Important ! Do not use NiCd/NiMH battery chargers for LIPO batteries. If you do not use a special charger for LIPO batteries, they will be damaged.

The ACE RC BLC electronic speed control is able to use LiPo batteries with nominal voltage not to exceed 22.2 volts (3S packs x2 recommended). Exceeding these voltages may result in damage to your brushless system. LiPo batteries have a minimum safe discharge voltage threshold that should either not be exceeded. The ACE RC BLC electronic speed control is equipped with built-in Low-voltage detection that cuts the power automatically when batteries have reached their minimum voltage (discharge) threshold. Refer to the low power auto-cut table in the ESC instruction manual. It is the driver's responsibility to stop immediately to prevent the battery pack from being discharged below its safe minimum threshold. It is critical for you, the user, to follow all other instructions supplied by the battery manufacturer and the charger manufacturer for proper charging, use, and storage of LiPo batteries. Make sure you understand how to use your LiPo batteries. Be aware that THUNDER TIGER/ACE RC shall not be liable for any special, indirect, incidental, or consequential damages arising out of the installation and/or use of LiPo batteries in THUNDER TIGER models.

鋰電池（鋰聚合物）因為其形狀的多變性，高電容量及高放電的特性，所以現今已是非常受歡迎的一種遙控模型電池種類。然而由於此種電池具有相當程度的使用風險性，故在使用時「正確的使用」以延長電池壽命與嚴守「操作安全」這兩點是需特別注意的。

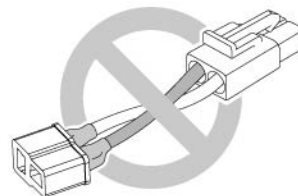
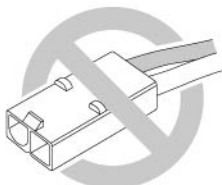
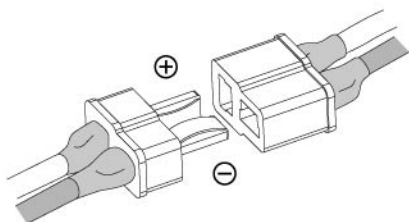
⚠ 警告！鋰電池（鋰聚合物）的使用者需具備進階鋰電池使用知識，並瞭解其中可能因為使用錯誤，所引發的潛在危險。THUNDER TIGER/ACE RC 強烈建議使用者需年滿 16 歲或是經由具有鋰電池進階使用知識的成人陪同操作。

⚠ 注意！請勿使用鎳鎘/鎳鎘充電器對鋰電池進行充電！此舉很可能引起電池的損壞。請使用專業之鋰電池充電器進行鋰電池之充放電。

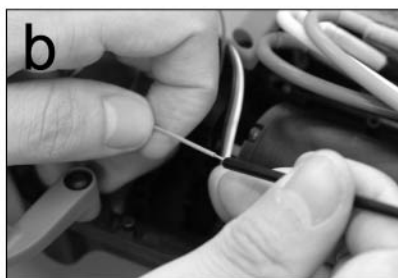
ACE RC BLC系列之無刷馬達速控器在設計上是可以允許使用鋰電池，但須注意請勿使用超過22.2 volts (建議使用3S packs x2)的鋰電池，否則你的無刷馬達速控器及無刷馬達很可能因過高的電壓而燒毀。使用鋰電本身應該也需具有過度放電之保護，以避免電電池本身的壽命及效能產生不可回復性的傷害。ACE RC BLC系列之無刷馬達速控器本身內建有低電壓偵測裝置，當電池電壓低於一定電壓時速控器會進行自動斷電程序以保護電池之壽命。請參考速控器說明書上低電壓斷電表。發生上述斷電情況請操作者即刻暫停操作以防止電池之損壞。操作者在使用鋰電池時應先詳讀電池及充電器廠商所提供之使用操作說明書以瞭解正確的鋰電池充放電方法，儲存及使用方式。請注意！THUNDER TIGER / ACE RC對於消費者因為使用或安裝鋰電池於所屬之遙控模型上，而造成任何的直接或間接的損害，無須擔負任何法律責任。

⚠ Only use equipped Deans Ultra Plug for charging and discharging battery. Avoid to use the connectors shown.

⚠ 充放電時，請“只”使用附車的耐電流T型接頭，避免使用下列一般電池接頭。

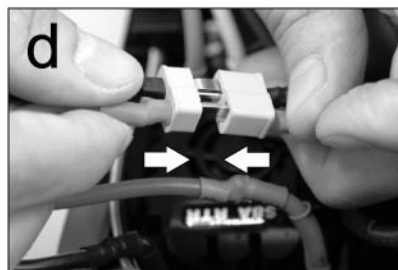
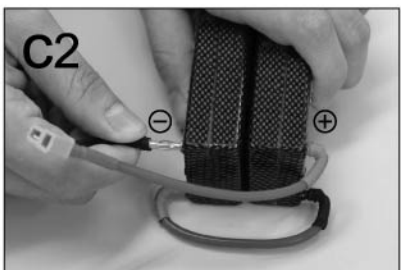
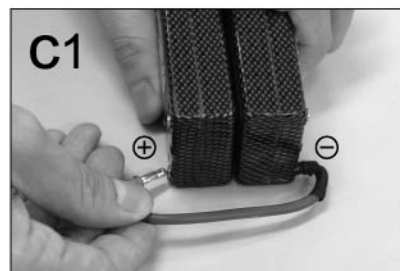


2 PREPARING THE CHASSIS 操作前，車體準備



- Remove the body pins (4 pcs.) and detach the body.
 - Straighten antenna and insert into antenna tube.
 - Put the antenna wire through the antenna pipe. (Do not cut or shorten antenna wire.!) Push the antenna pipe into the chassis mount hole.
- 將車殼固定車銷(共4個)拆除以取下車殼。
 - 將天線穿套進天線管內。
 - 將天線套管安裝於底板固定孔上(請勿裁短天線以免影響接收距離)。

3 INSTALLING BATTERY 電池安裝 (Batteries are not included in the kit. 本產品不含電池)



- Install 8pcs alkaline or rechargeable AA-size batteries (Not Included) into transmitter.
- Make sure switch is OFF.
- Combine two LiPo battery pack with included battery cord.
- Use included battery cord (with dean plug) to connect two battery. (⊖ Connect black cord, ⊕ Connect red cord.)
- Install the power pack and connect to the ESC.

⚠ **Caution ! Confirm wiring and connections before connecting the speed control to the battery. Incorrect polarity will damage your speed control.**

⚠ **Caution ! Do not combine Ni-MH battery with Lipo battery. Use fully charged batteries of the same type.**

- 安裝八顆三號鹼性電池或充電電池於發射機內。
- 先確認電源是關閉的。
- 以內附連接線連接兩個(7.4Vx2)鋰電池組。
- 使用內附電池連接兩組電池(⊖負極接黑線, ⊕正極接紅線)
- 將鋰電充電電池組合裝入底板連接電池條與速控器。

⚠ **注意！請注意電池與速控器接線之正負極位置(反裝電極將造成電池短路或速控器之損壞)。**

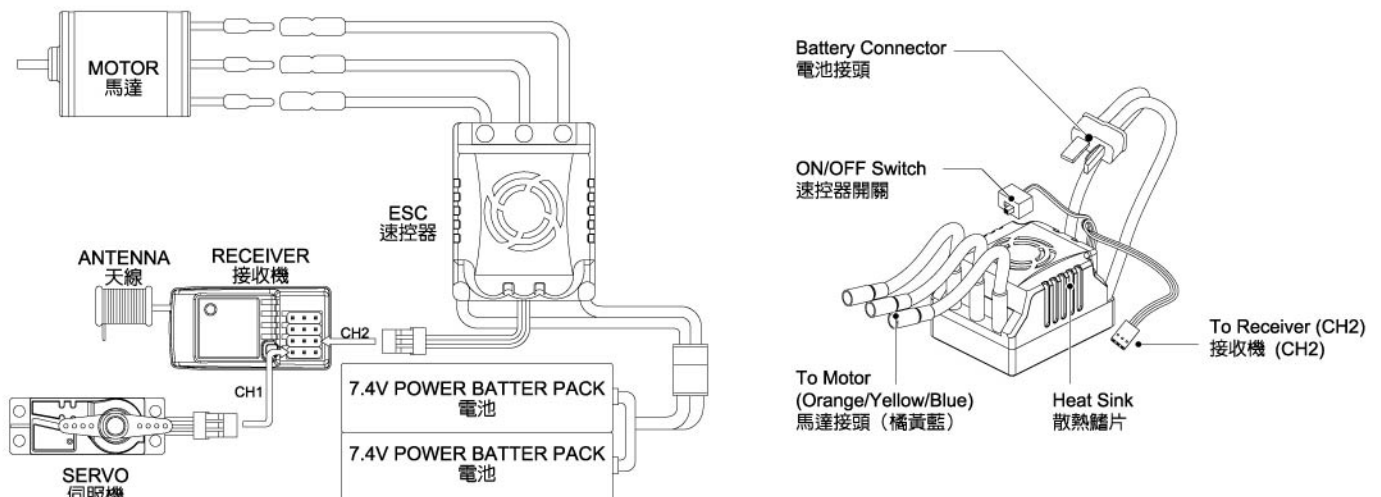
⚠ **注意！鎳氫電池請勿與鋰電池混搭使用。當使用兩組以上電池，請使用同性質電池組做搭配。**

4 The ACE RC Cougar PS3i Radio and BLC-80C Brushless Power System

熟悉2.4GHz電控系統及無刷馬達速控器及馬達安裝



4.1 ACE RC Cougar PS3i 2.4GHz 發射機



4.2 MODEL WIRING DIAGRAM 電控系統連結圖

1. **Transmitter Antenna:** Straighten up the antenna before operating the model.
2. **Power Indicator:** The LED light indicates power is "on" or "off".
3. **Edit Buttons:** The left and right buttons are the "functions" selecting keys. The up(+) and down(-) buttons are the value adjusting keys. For additional details on specific operation, please refer to the "function" setting procedure (Page 8)
4. **LCD Display:** The Cougar transmitter features an "Easy-to-Read" screen. Use the "Edit Buttons" to select the function (left and right key) and change settings (with the "up" & "down" keys). For additional details on specific operation, please refer to the "Function" setting procedure (Page 8).
5. **Digital Steering Trim lever:** Push this lever left or right to adjust the center point of the steering servo. The cursor will move on the top ruler line of the LCD screen to display the current position.
6. **Digital Throttle Trim lever:** Push this lever up or down to adjust the center point of the throttle/brake servo. The cursor will move on the left ruler line of the LCD screen to display the current position. This adjustment sets the braking amount of "Drag Brake" and "Coast Brake".

⚠ NOTE ! The Digital Throttle Trim function adjusts neutral point without affecting maximum throttle servo travel and full-throttle position.

The Digital Steering Trim function adjusts maximum steering servo travel for both left and right steering. If adjustments are incorrect, steering linkage binding or damages to the steering servo may occur.

7. **Digital Steering D/R(Dual Rate) lever:** Push this lever left or right to adjust the amount of the steering dual rate. Right to increase dual rate amount and left to decrease the amount.
8. **AUX Ch Button:** Provides an extra function for the control of the model.
9. **External Charging Jack:** For rechargeable NiCd/NiHM battery pack on the transmitter only.
10. **2.4GHz binding SW:** The Binding SW button is located on the back of the 2.4GHz transmitter unit. For additional details, please refer to the "Binding" setting procedure (Page 7).
11. **Steering Wheel:** Controls the steering of the model.
12. **Power Switch:** Slide to turn the transmitter on or off.
13. **Throttle Trigger:** Pull or push to control throttle on the model.
14. **Steering Tension Adjustment:** Use a Phillip type screw driver to tighten or loosen the tension on the steering wheel.
15. **Battery Cover:** Slide for removing the cover and install / remove the batteries.

1. 天線：操作發射機時請將發射機天線扳直。
2. 電源指示燈：LED顯示燈號顯示開關機狀態，紅色燈號為開機，關機或展示狀態則無燈號。
3. 選單按鈕：選單左 (<) 右鈕 (>) 可移動功能選項，上，選單上 (+) 下 (-) 鈕可調整功能選項之設定值。更多功能設定方式請參考說明書第10頁“功能調整”。
4. 選單屏幕：功能選項為方便閱讀及操作，採直接印刷於LCD顯示屏幕上，無須按鈕進入即可一目了然。更多功能設定方式請參考說明書第10頁“功能調整”。
5. 轉向微調撥桿：左右撥動轉向微調撥桿可調整轉向伺服機中立點。調整時LCD顯示屏幕上之ST游標卡尺會隨著調整量大小移動游標標示點位置，基本上此調整撥桿為保持遙控模型之直線性。
6. 油門微調撥桿：左右撥動油門微調撥桿可調整轉向油門伺服機中立點。調整時LCD顯示屏幕上之TH游標卡尺會隨著調整量大小移動游標標示點位置，基本上此調整撥桿為設定遙控模型之“中立點煞車”及“行進煞車”之行程量。

⚠ 注意！調整油門微調撥桿時，油門伺服機之全行程兩端定位點將不會因為中立點位置改變因此而移動位置，此調整將僅進行油門中立點之調整。調整轉向微調撥桿時，轉向伺服機之全行程兩端定位點將因為中立點的改變而做相對位置移動。因此在調整轉向微調撥桿時需注意行程動作是否因為機械結構之限制而造成可能之轉向控制系統發生干涉情形甚至損害伺服機本身。

7. 轉向角度大小調整鈕：調整此按鈕可調整轉向角度大小。向右按壓此鈕可增加轉向大小行程量，向左則為減少。
8. 預備頻道切換鈕：本遙控系統提供額外擴充之伺服機之控制頻道。按壓此控制鈕可控制此動作之開啓與關閉。
9. 充電器接座：請使用鎳氫或鎳鎘專用充電電池及充電器。
10. 2.4GHz 校頻配對設定鈕：發射機背面為2.4GHz之BINDING SW校頻配對設定鈕為配對發射/接收頻率之用。更多功能設定方式請參考說明書第7頁“校頻配對步驟”。
11. 轉向舵輪：控制遙控模型之左右轉向。
12. 電源開關：發射機電源“開啓”與“關閉”。
13. 油門扳機：推拉油門扳機控制遙控模型的前後及煞車動作
14. 轉向舵輪調整螺絲：使用小型十字起子調整此調整螺絲來改變轉向舵輪旋轉鬆緊度。
15. 電池護蓋：推移電池護蓋即可取出電池進行更換。

5 BINDING PROCESS 安全校頻配對(鎖碼)

A binding feature is included in the ACE RC Cougar 2.4GHz spread spectrum system to ensure the transmitter and receiver bind properly and prevent interference from other controllers.

To manually bind Tx/Rx, please proceed as per the following steps:

- Press and hold the "Binding SW" button on the back side of the transmitter while turning on the transmitter.
- Release the "Binding SW" button after the green LED flashes indicating the transmitter is binding.
- Press and hold the bind button on the receiver while turning on the receiver. Binding process will then start automatically. The LED will turn green/red flash on the receiver.
- Release the "Binding SW" button. Successful binding is confirmed by the binding LED changing from a quick blinking and then remain solid on the transmitter. The LED will turn green on the receiver. Once binding is complete, the system will automatically connect.

⚠ Note ! Binding process may take 3~10 seconds to execute. If binding fails, the LED on the receiver will turn red. Please turn off the power and repeat the steps from a) ~d).

ACE RC Cougar PS3i 採用最先進的專用3動2.4GHz無線展頻遙控系統。這個系統結合發射與接收可以互動溝通模式，跳動頻道搜尋，使得整體無線遙控系統的傳輸展現精準穩定的特性同時也無須擔心頻率干擾的問題。如發現無法操控情形發生，需要重新校頻配對，請依照下列步驟重新進行校頻配對程序：

- 打開發射機電源時，同時持續按壓發射機背面之 "Binding SW" 按鈕。
- 直到按鈕旁之LED綠燈快速閃爍，再放開 "Binding SW" 按鈕，表示發射機正在進行自動搜尋校頻，此時請不要關閉發射機電源。
- 然後按壓接收機上之 "Binding SW" 按鈕並同時開啓接收機電源，此時接收機將自動進行校頻配對程序。接收機LED燈號為紅綠快速閃爍。
- 放開 "Binding SW"，一旦完成配對程序，發射機LED燈號會從綠色快速閃爍轉換成持續綠色燈號，接收機LED燈號將從紅色轉換為綠色。此時表示接收機與發射機已完成配對溝通，可以進行操控。

⚠ 注意！遙控系統校頻配對可能需要 3~10 秒執行程序。如果程序執行錯誤，發射及接收模組的 LED 燈號將持續呈現紅色。請關閉電源再依 a)~d) 的順序重新操作配對程序。

Step 步驟	TX Action 發射機動作	RX Action 接收機動作	LED 燈號
a	Switch On 開 / Push 按 	No Action 無須動作	—
b	Release 放開 	No Action 無須動作	TX LED : GREEN FLASH TX 燈號：綠燈快速閃爍
c	No Action 無須動作	Switch On 開 / Push 按  LED: RED 紅 Switch on Power 開啓電源	RX LED : GREEN/RED FLASH RX 燈號：綠/紅燈快速閃爍
d	No Action 無須動作	LED: GREEN 綠  Release 放開	TX LED : GREEN FLASH-->GREEN SOLID RX LED : RED SOLID-->GREEN SOLID TX 燈號： 綠燈快速閃爍-->綠燈恆亮 RX 燈號： 紅燈恆亮-->綠燈恆亮

6 FAIL SAFE(F/S) FUNCTION SETTING 安全回復功能設定

ACE RC COUGAR 2.4GHz R/C system features a built-in Failsafe function to automatically set a servo command if the receiver loses the signal from transmitter due to interference. For safety, we strongly recommend to active the FAILSAFE function on your Cougar R/C system.

Setting up the Failsafe (F/S) Function:

- After binding the transmitter and receiver, you can continually set up the F/S function. Turn on the transmitter power and then receiver power.
- Press and hold the "Binding SW" button on the receiver for 10 seconds. The LED will start flashing GREEN on the receiver.

⚠ CAUTION ! Do not release the "Binding SW" button on the receiver until STEP C is completed.

- Move and hold the throttle trigger to the position you want the control to be in if a failsafe condition should occur. First, keep steering wheel at neutral position (steering servo at neutral position). To set up F/S function with the throttle servo position at "Brake", first push the trigger to the brake position and hold. To set up F/S function with servo position at "Neutral", keep the trigger at neutral position.

⚠ NOTE ! Always set the throttle trigger to neutral or full brake position and steering servo to neutral position in case of any unexpected control error !

Factory pre-settings for RC car F/S function are :

- Electric Car - Steering servo at neutral, throttle at neutral.
- Nitro Car - Steering servo at neutral, throttle at iddle and car brakes.

- After the Step C, release the "Binding SW" button on the receiver first and then the throttle trigger. The LED turns to solid "RED" and then back to solid "GREEN" indicating the F/S function has now been activated.
- Test by turning off your transmitter and watching the servo failsafe position activate.
F/S at "Neutral" : To check the fail safe is working properly, by moving the throttle trigger to the full forward (full brake), hold this position and then turn off the transmitter. The F/S function should move the throttle servo to "Neutral" position and the steering servo to "Neutral" position.
F/S at "Brake" : To check the fail safe is working properly, by keeping the throttle trigger at neutral and then turn off the transmitter. The F/S function should move the throttle servo to "Brake" position and the steering servo to "Neutral" position.
- If the F/S function fails or need to change the F/S hold position, repeat the steps a) ~e). After the F/S is completed, you can start normal operation.

⚠ CAUTION ! ALWAYS reset FAILSAFE function after binding your transmitter & receiver.

ACE RC COUGAR 2.4GHz 遙控系統內建安全回復功能，可設定當接收機因干擾或斷電而失去發射機訊號時，伺服機自動回復製預設位置。安全起見，強烈建議您務必啓用安全回復功能。

安全回復功能設定

- 設定此功能前請先完成系統發射與接收之對頻。確定後，先打開發射機再開接收機電源。
- 壓著接收機對頻開關，約10秒鐘後LED會變為綠色快速閃爍。表示進入F/S設定模式。

⚠ 注意！C步驟完成前不要放開接收機對頻鍵。

- 同時移動油門扳機至您想要設定F/S伺服機位置。轉向舵輪請保持中立點位置。

【如想要設定F/S油門伺服機位置為煞車，需先移動油門扳機至煞車位置不要鬆開。】

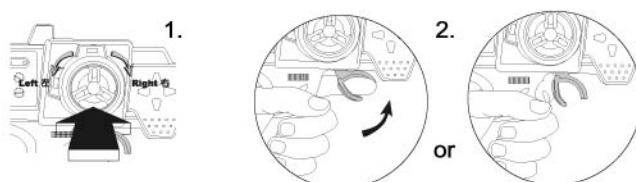
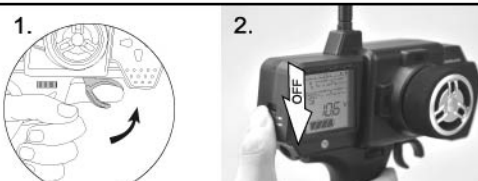
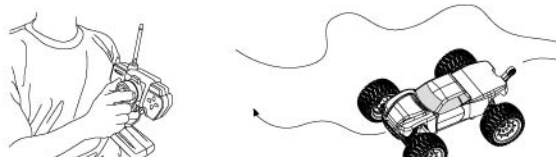
【如想要設定F/S油門伺服機位置為中立，請保持油門扳機在中立點位置。】

⚠ 注意！油門伺服機安全回復位置建議設定為煞車或中立點，請勿設定為油門開啓位置，以免發生危險。本系統出廠預設F/S功能如下：

- 電車 - 轉向伺服機位置在中立點，速控器油門在靜止中立點。
- 油車 - 轉向伺服機位置在中立點，油門伺服機在怠速位置。

- 此時你可以放開接收機對頻鍵，然後再放開發射機油門扳機。LED會變為恆亮紅燈，約2秒後又回到恆亮綠燈，此時表示F/S功能已經設定完成。
- 檢查動作：
F/S油門伺服機位置設定為中立點：將油門扳機全煞車，關掉發射機電源，檢視F/S伺服機位置動作是否轉回中立點位置。
F/S油門伺服機位置設定為煞車：油門扳機保持中立點，關掉發射機電源，檢視F/S伺服機位置動作是否轉回煞車位置。
- 檢查無誤後，開發射機開關，然後接收機開始操作。

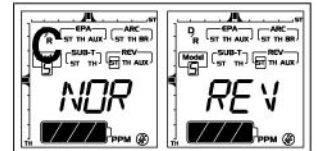
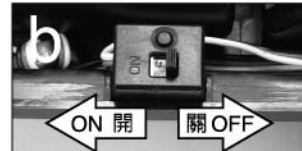
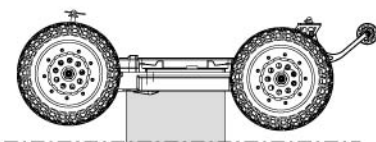
⚠ 注意！重新對頻後，請務必重新設定安全回復功能。

Step 步驟	TX Action 發射機動作	RX Action 接收機動作	LED 燈號
a	Binding Complete 完成對頻	Binding Complete 完成對頻	TX LED : GREEN SOLID RX LED : GREEN SOLID TX 燈號：綠燈恆亮 RX 燈號：綠燈恆亮
b	No Action 無須動作	Push for 10 seconds 先持續按10秒 Switch on Power 開啓電源	RX LED : GREEN FLASH RX 燈號：綠燈快速閃爍
c	1. Steering: Neutral 2. Keep brake or trigger at neutral 1. 轉向中立 2. 保持煞車或是油門在中立點 	No Action 無須動作	Pre-settings for F/S function: ■ EP Car : Steering at Neutral / ESC at Neutral ■ GP Car : Steering at Neutral / Carb. at Idle and car barks 出廠預設F/S功能： ■ 電車：轉向朝前，速控器煞車 ■ 油車：轉向朝前，油門關閉(怠速)
d	Release later 後放開 	Release first 先放開 	RX LED: RED SOLID-2s->GREEN SOLID RX燈號： 紅燈恆亮-2秒->綠燈恆亮
e	1. Keep brake 2. Switch Off 1. 保持煞車 2. 關發射機 	No Action 無須動作	F/S function activates F/S 安全回復功能啟用
f	OK! 		

7 RADIO OPERATION 遙控器操作

⚠ WARNING: The brushless system is very powerful. For safety, please always keep the wheels away from the track when you are preparing to switch on the car.

注意：本系統功率十分強勁！基於安全因素，建議請在車輪懸空的狀態下開啓系統電源，避免非預期性的暴衝。

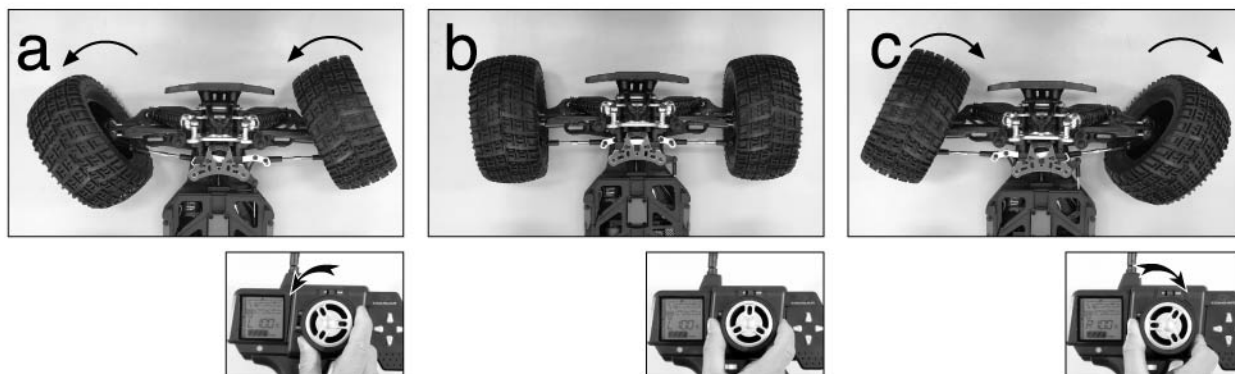


- When turning radio system on. Turn the transmitter on first, then turn on the ESC.
- When turning the radio system off. Turn the ESC off first, then turn off the transmitter.
- Reversing servos. Enter the NORM and REV mode by pressing the "up" and "down" keys.

⚠ Caution ! Do not run the transmitter's battery flat or you will lose control of the car. For additional details, please refer to the transmitter instruction manual.

- 為避免車子失控暴衝，先開啓發射機電源。
- 接著開啓速控器電源。電源的關閉則是相反的順序，先關速控器電源，再關發射機電源。
- 伺服機的正逆轉調整功能是用來控制伺服機與發射機控制是否一致？進入圖中之顯示之發射機LCD顯示屏幕上之調整模式，按壓 "up" (+) 或 "down" (-) 按鈕可變換伺服及轉動方向為 "NOR" (正常) 或 "REV" (反轉)。此調整功能可針對不同之伺服機進行調整 (方向、油門或預備頻道)。其他注意事項請參考發射機說明書。

8 OPERATING RADIO STEERING FUNCTION 遙控器設定－轉向



- Check the radio steering functions. With the radio transmitter and receiver on, turn the steering wheel to the left. The front tires/wheels should turn left accordingly. If not, flip the steering servo reverse switch.
 - Return the steering wheel to neutral. The front tires/wheels should point straight forward. If not, use the steering trim lever to correct it.
 - Turn the steering wheel to the right. The front tires/wheels should turn right accordingly.
- a. 確認轉向功能。打開發射機及接收機電源，方向轉左邊時，輪胎將朝向左邊，若方向不一致，請調整方向的正逆轉開關。
b. 方向舵回中立點時，前輪應筆直向前，若有偏差，請調整方向舵微調旋鈕。
c. 方向舵轉向右邊時，前輪應轉向右邊。

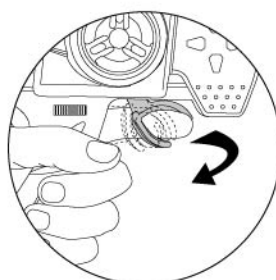
9 ADJUSTING THE ESC 速控器調整

Before adjusting the ESC, read the instructions for the ESC first.
調整電子速控器前，請先詳閱電子速控器的操作說明。

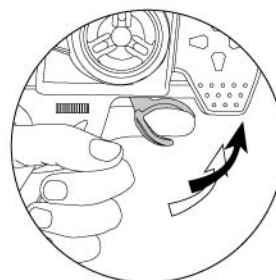
10 DRIVING BASIC 操控基本動作



Stop (Neutral)
停止 (中立點)



Brake
煞車

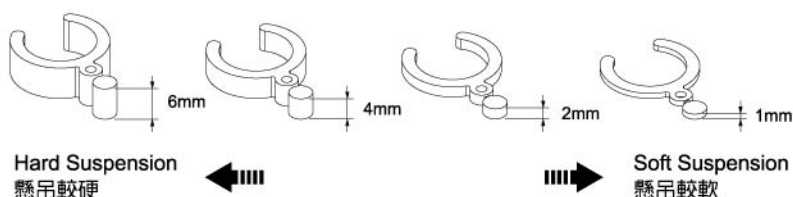
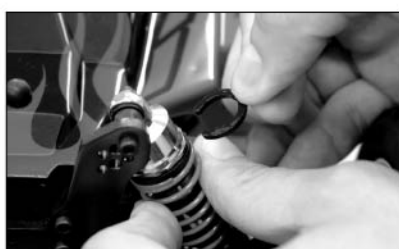


Reverse
後退



Acceleration
加速

11 SHOCK ADJUSTMENT 避震器懸吊調整



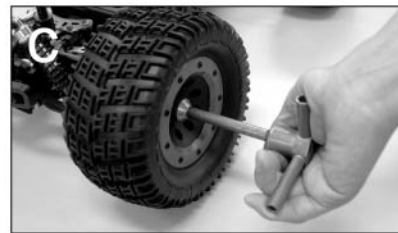
Use the included shock clips to adjust for spring pre-load.

使用內附的避震器調整環，調整車身高度。更詳細的調整方式請參考設定表。

12 WHEEL AND TIRE PREPARATION 輪胎及輪轂



- a. Remove wheel lock nut using the 4-way wrench and detach wheels.
b. Replace fresh tires and wheels if the original tires are worn out.
c. Tighten the wheel lock nut.



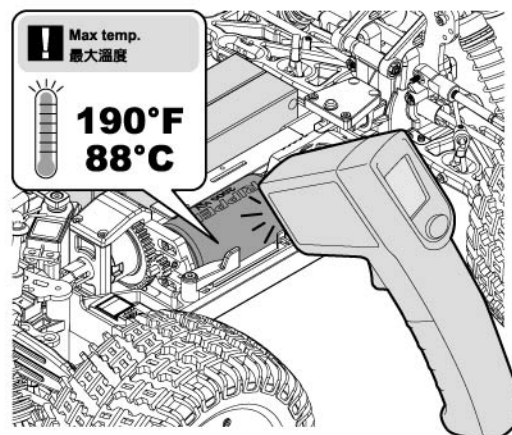
- a. 使用內附之六角螺帽套筒板手將輪轂上六角固定螺帽取下。
b. 將已磨損嚴重之輪胎組取下後，換上新的輪胎組。
c. 將六角固定螺帽重新鎖緊。

13 GEAR RATIO CHART 驅動齒比對照表

This gear ratio chart shows the recommended combinations of spurs and pinions. Increasing the gear ratio will result in higher Max. Speed, but will also increase the temperature of the motor. Be note that the motor temperature does not exceed 190°F/88°C. If the motor temperature is too high, reduce the gear ratio by changing a smaller pinion gear and/or a bigger spur gear.

此表顯示最終驅動齒比與驅動大齒盤和馬達齒輪之間的關係。我們強烈建議操作者在更換齒輪/齒盤時應以這張表為更換基準。驅動齒比增大，將提升車子操控的極速，但馬達溫度也將相對升溫。為避免因齒輪比更換不當導致馬達過熱燒毀，請注意馬達操作溫度勿超過華氏溫度190度/攝氏溫度88度。調降更改齒比(更換較小馬達齒輪和/或較大驅動齒盤)將有助於馬達的降溫。

Pinion Gear 馬達齒輪		Std 標準 12T	13T	14T	15T
Spur Gear 驅動大齒盤	48T	17.20	15.87	14.74	13.76
	Std 標準 50T	17.91	16.53	15.35	14.33
Cautions 警告 ESC might be HOT. Check temperature often. 速控器可能會過熱， 請隨時檢測溫度。					
Max. Speed 最高速	Slower 低速 ← → Faster 高速				
Acceleration 加速	Quicker 快 ← → Slower 慢				



14 MAINTENANCE AFTER RUNNING 車體保養

- a. Always turn off the radio system and disconnect the battery pack when the car is not in use.
b. Remove sand, mud, dirt, and any other elements before storing the car.
c. Never use chemicals or any solvents to clean the chassis as it may cause damage to the electronics components and plastic parts. Use compressed air, soft paintbrush, or toothbrush to clean dust and dirt.
- a. 結束操控儲存車體前，請謹記要關閉電源，並將電池接頭拔除，以免電池短路造成不必要之危險。
b. 清潔車體上所沾附之沙塵、泥屑。
c. 請勿使用化學清潔劑來清洗底板，以免遙控之電子設備受潮、電線、焊點及塑膠件被侵蝕而導致不必要之損壞。清潔車體時，請儘量使用強力之壓縮空氣，搭配軟毛刷來清理車體上所沾附之沙塵、泥屑。

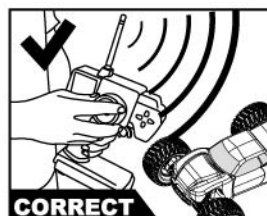
15 BEFORE OPERATING 操控前準備

For best operating range, always ensure the largest section of your transmitter antenna faces the model.

Warning ! Operating range may be significantly reduced with the transmitter antenna pointing directly at the model !

以天線最大面積對正模型，可獲得最佳的遙控距離。

警告！天線頂端直指模型會嚴重縮短遙控距離！



16 DRIVING TIPS 操控的小技巧

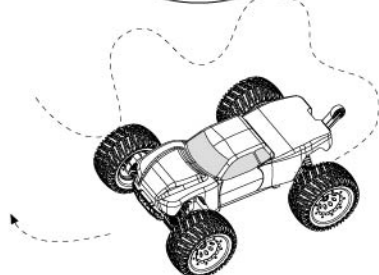
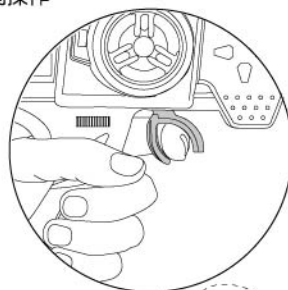
a. Hold your elbows in and keep the transmitter antenna pointing straight up.

a. 手持發射機時請將雙肘靠緊身體並保持發射機天線朝上。



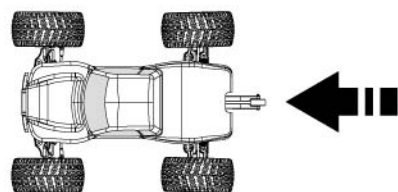
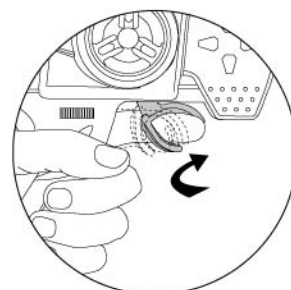
b. Squeeze the throttle trigger or pull the throttle stick gently and steer the car to left and right.

b. 開始操控前按扣油門板機(油門拉桿)時請緩慢增加油門並試著熟悉前輪轉向操作。



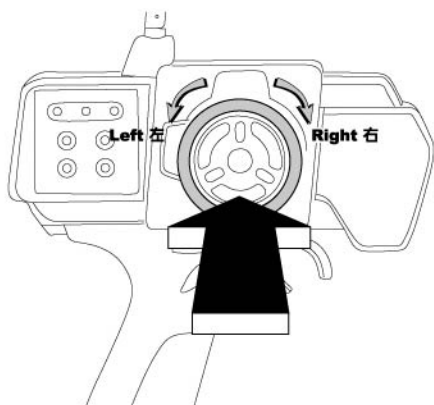
c. Squeeze the throttle trigger and release. Repeat this action to control car speed.

c. 初學者請先熟悉油門操控再慢慢加快車子行進速度。



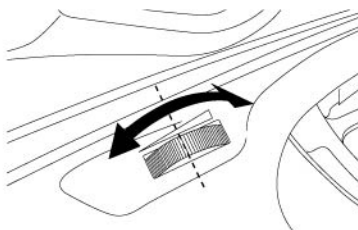
d. If you are of unsure of the steering direction, practice with the transmitter facing towards you.

d. 假設你不確定發射機的轉向，將發射機轉輪面向自己，先熟悉左右轉向。



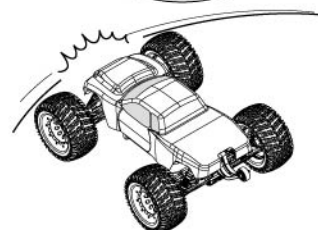
e. At first, set the steering D/R function for less steering response.

e. 初學者可參考發射機說明書調整D/R功能，以避免轉向太過靈活不易操控。



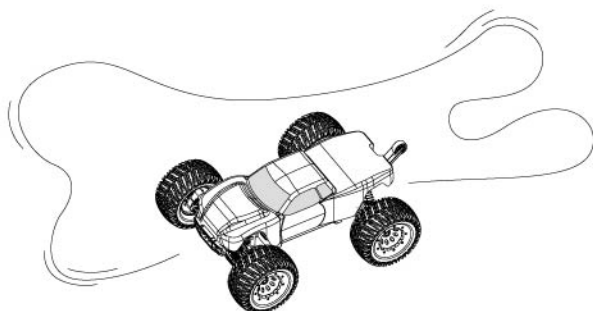
f. Be careful not to squeeze the throttle trigger abruptly while steering.

f. 轉向時請勿將油門全開以避免速度過快導致失控翻覆。



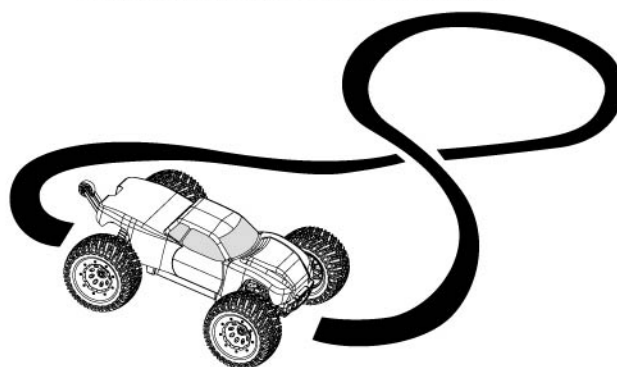
g. After you become used to the controls, experiment with high performance possible at full throttle and full steering.

g. 熟悉前述基本操控後再試著將油門全開進行高速操控。



h. Practice doing figure 8S.

h. 建議可以使用繞8字來熟悉發射機操控動作。



TROUBLESHOOTING 常見問題與解決辦法

If you have trouble starting or keeping your MT-4 G3 running, here's a quick checklist of what to look for first.

如果您的 MT-4 G3 有行駛上的問題，您可以參考下表的說明。

如果問題無法解決，請與原購買經銷商聯絡。

Description 問題	Problem 可能原因	Solution 解決方法
Car dies or slows 車不動或速度變慢	Speed control over heats 速控器過熱	Let it cool and try later 先冷卻，稍後再試
Car is glitching 車故障	Car has a problem on power 車子的動力有問題	Check for loose wires, dead radio batteries. 檢查電線是否脫落或遺失
Motor overheats 馬達過熱	Gear mesh is too tight 馬達驅動齒輪太緊	Let motor cool and check recommended gearing for motor type. Reset gear mesh 先讓馬達冷卻，再重新調整合適的齒隙
No power 失去電力	Battery is discharged 電池沒充電 Battery not plugged in 電池沒接好	Charge battery 將電池充電 Plug battery in 將電池接頭確實連接遙控車
No throttle 失去動力	Motor not plugged in 馬達連接線沒接好 Motor failure 馬達損壞 Motor keeps running 未扣引發射機油門，馬達卻持續轉動	Plug motor in 確實接上紅、黃、黑端之馬達電源傳輸線（紅對紅、黃對黃、黑對黑） Replace motor 置換新馬達 Check if the throttle trim is in neutral position. 檢查是否油門微調不在中立點的位置
No steering 失去控制	Servo not plugged in 轉向伺服機未安裝好 Locked up steering linkage 轉向裝置卡死 Servo failure 伺服機失靈	Plug servo into ESC unit 將連接電線接上速控器 Free up steering linkage 排除可能的干涉（卡住）的零件部位 Replace servo 置換新伺服機
Reversing 後退功能	Goes backwards when you pull the trigger or goes right when turning the wheel left 當扣引／放開發射機油門板機，車子卻後退／前進或是發射機方向轉輪之轉向跟車子轉向左右相反	Check throttle / steering reversing switches on transmitter 檢查發射機上之油門／轉向的反轉開關是否反轉？

SET UP 競技角度設定

Toe Adjustment (Front)

前束角(前投影)設定

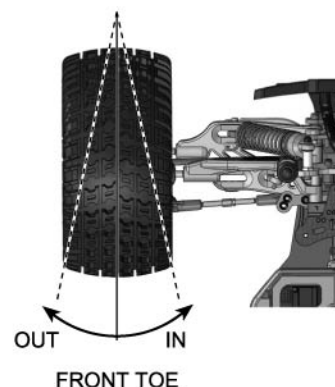
1. Toe Adjustment (Front) Adjust the front toe angle by tuning the length of the left and right steering rod.

前束角(前投影)設定：調整前轉向拉桿長度，藉以改變前輪束角角度。

Rod length 拉桿長度	Steering Characteristics 轉向特性
Tuning longer More front toe-in 拉桿越長，前束角越大	- Increases straight-line stability - Makes the steering response milder - 增加直線穩定度 - 轉向反應較緩
Tuning shorter More front toe-out 拉桿越短，前束角越小	- Decreases straight-line stability - Makes the steering response quicker - 直線穩定度較差 - 轉向反應較快

Note: Ensure you adjust either the length of right and left tie rod the same.

註：調整時請注意左右轉向拉桿需調整一樣的长度。

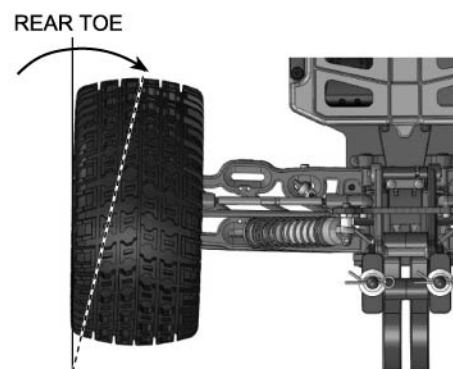


Toe Adjustment (Rear)

後束角(後投影)設定

2. Toe Adjustment (Rear) Adjust the rear toe angle by changing the various toe blocks behind the rear bulkhead. Take out the embedded plastic balls inside of the block length and re-insert to the new toe block. Replace the toe block. There are 4 different blocks that can be chosen for adjustments. Please refer to the table below.

後束角(後投影)設定：更換後投影版改變後輪束角角度，備有4種後投影角度可供替換。



Block No. 投影版標號	Rear toe-in angle 後束角(投影)角度	Steering Characteristics 轉向特性
RR1 	Less rear toe-in (Less grip) 後束角小(捉地力較差)	Increases steering but decreases the stability on power when exiting corners. 入彎轉向角度大，但出彎補油穩定度減弱
RR 1.5 	↑ ↓	↑ ↓
RR 2 		
RR 3 		
	More rear toe-in (More grip) 後束角大(捉地力較好)	Decreases steering but increases stability on power when exiting corners. 入彎轉向角度小，但出彎補油穩定度較佳

SET UP 競技角度設定

Caster Adjustment (Front) 後輪後傾角

3. Caster Adjustment(Front): Adjust the caster angle by changing the plastic clips (caster shims) in the front upper hinge pin.

前輪後傾角-大王銷角：更換前上擺臂之調整墊片可調整前輪後傾角的大小。

	Steering Characteristics 轉向特性
Clips behind upper arm More Caster (Note) 前輪後傾角越大	Sharper corner-in, slower corner-exit 入彎速度快，出彎速度慢
Clips in the front of upper arm Less Caster 前輪後傾角越小	Slower corner-in, faster corner-exit 入彎速度慢，出彎速度快

Hint: Using a needle nose pliers to install or reinstall the clips makes the adjustment much easier.

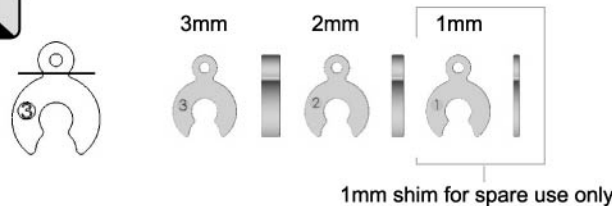
Note1: When putting the clips behind upper arms, cut the ear of the clips to avoid interfering with steering slider.

Note2: Ensure you make equal adjustments on both left and right sides of the car.

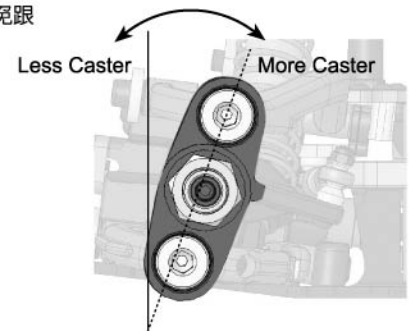
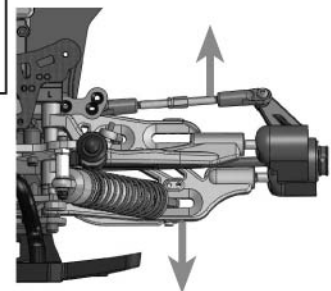
提示：使用尖嘴鉗協助更換或安裝後傾角墊片。

註1：使用後傾角墊片置於上擺臂之後時，需剪斷墊片的耳朵部分以避免跟轉向曲柄干涉。

註2：調整時請注意左右後傾角調整需一致。



Maxsimun Installation: 5mm

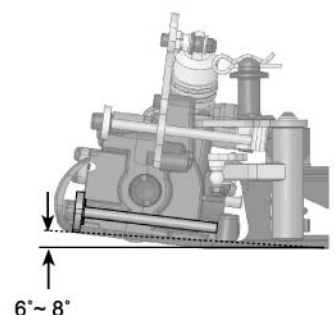
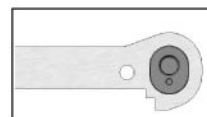
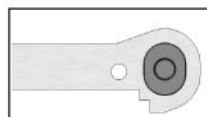
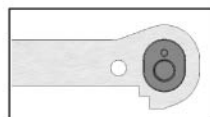


Front Anti-Dive Adjustment 前懸吊防潛角度

4. Front Anti-Dive: The Front Dive-Squat angle can be adjusted using the different plastic eccentric bushings in the front suspension plate. Please refer to the table below.

前懸吊防潛角度：前防潛角度的調整可經由更換前下擺臂前固定版之橢圓內襯而改變。

Eccentric Bushing 橢圓內襯	Total 前翹角	Characteristics 調整特性
FF-1	6°	Decreases steering response. Good handling on bumpy tracks. 轉向反應慢，適顛簸路面
FF0	7°	
FF1	8°	Increases steering response. Good handling on smooth tracks 轉向反應快，適平緩路面



Note: Ensure you make equal adjustments on both left and right sides of the car.

註：調整時請注意左右內襯角度選擇需一致

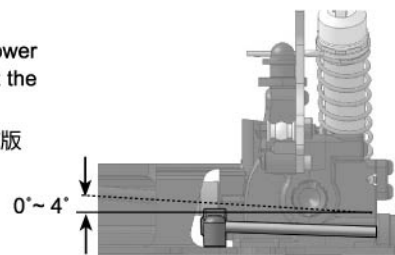
SET UP 競技角度設定

Rear Anti-Squat Adjustment

後懸吊防蹲角度

5. Rear Anti-Squat Adjustment: Adjust the rear anti-squat of the rear lower arms by replacing the different plastic arms suspension holders at the front of the rear bulkhead.

後懸吊防蹲角度：底板後防蹲角度的調整可經由更換後下擺臂前固定版而改變。



Rear susp. arm holders 後擺臂固定版	Characteristics 調整特性
RF 0 	Less anti-squat, flat arm Increases rear traction when cornering Decrease rear traction when accelerating. Easy handling on bumpy tracks 防蹲角小，擺臂與底板角度水平 轉彎時，後輪循跡性增加 加速時，後輪循跡性減緩 適顛簸路面
RF2 	
RF3 	
RF4 	
	More anti-squat, leaning backwards Decreases rear traction when cornering Increases rear traction when accelerating Easy handling on smooth or slippery tracks 防蹲角大，擺臂與底板角度後傾 轉彎時，後輪循跡性減弱 加速時，後輪循跡性增加 適平緩路面

Camber Adjustment (Front)

外傾角（前輪）

6. Camber Adjustment(Front): Adjust the front camber by adjusting the lengths of threaded parts of the front pivot balls in the upper arms longer or shorter.

外傾角（前輪）：調整前輪座球頭螺桿長度，藉以改變前輪外傾角。

Length(L) 螺桿長度	Steering Characteristics 轉向特性
Making longer. 螺桿越長 Positive camber. 正值	Less steering 趨於轉向不足
Making shorter. 螺桿越短 Negative camber. 負值	More steering 趨於轉向過度

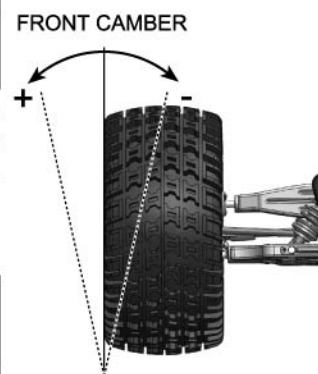
Note1: To expanding the adjusting range of the front camber, you can also change the eccentric bushing in the upper plate at the very front of the front bulkhead and the mounting holes of hinge holders on the servo saver top plate.

註1：另一個搭配調整外傾角的方式是利用更換前上擺臂固定版之橢圓內襯來增加外傾角的調整範圍。

Eccentric bushings 橢圓內襯	Servo saver top plate	Camber adjusting range of the front camber 外傾角調整範圍
Outer hole 外孔 		More camber adjustment 範圍大
Inner hole 內孔 		Less camber adjustment 範圍小

Note2: Ensure you make equal adjustments on both left and right sides of the car.

註2：調整時請注意左右內襯孔位選擇需一致。



SET UP 競技角度設定

Camber Adjustment (Rear)

外傾角 (後輪)

OP



PD0399 ALUM TURNBUCKLE WRENCH, 5mm

7. Camber Adjustment(Rear): Adjust the rear camber by adjusting the lengths of the upper tie rods.

外傾角 (後輪)：調整後輪座上拉桿長度，藉以改變後輪外傾角。

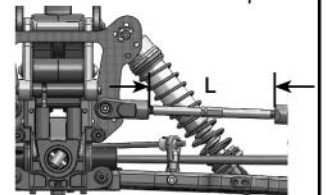
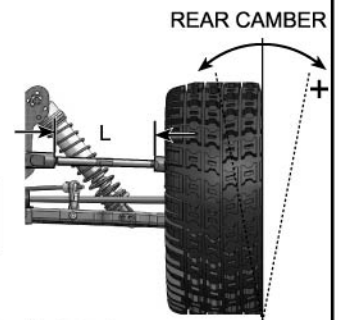
Length(L) 上拉桿長度	Steering Characteristics 轉向特性
Making longer. 越長 Positive camber. 正值	Decreases traction when entering corners. 轉彎時，後輪循跡性減弱
Making shorter. 越短 Negative camber. 負值	Increases traction when entering corners 轉彎時，後輪循跡性增加

Note1: You can also adjust the rear camber by positioning the rear upper tie rods in the different holes in the shock towers and outer rear hubs. For more information, please refer to the "Set-Up Sheet" in a separate sheet.

Note2: Ensure you make equal adjustments on both left and right sides of the car.

註1：另一個搭配調整後輪外傾角的方式是利用更換後上擺臂固定拉桿之固定位置 (避震器支架及後輪座) 來增加外傾角的調整範圍。

註2：調整時請注意左右邊固定孔位選擇需一致



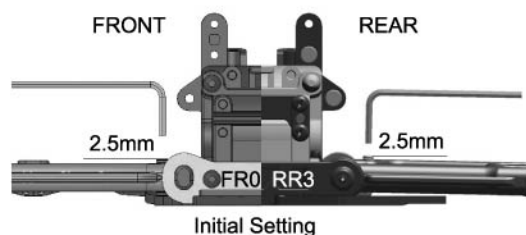
Ride Height (or Droop) Adjustment

車離地高

8. Ride Height (or Droop) Adjustment: The front/rear ride height can be adjusted by screwing in or unscrewing the setscrews in the lower arms.

車體離地高：車體離地高的調整可經由調整前後下擺臂的無頭內六角螺絲來改變。

Setscrews 調整螺絲	Ride height 離地高	Characteristics 調整特性
Screwing in 往下旋	Becomes lower 變低	Less steering, good handling on smooth tracks 轉向較不足，適和平緩場地操控
Unscrewing 往上旋	Becomes higher 變高	More steering, good handling on rough tracks 轉向較過度，適和顛簸場地操控



Ackerman Adjustment

阿克曼轉向角

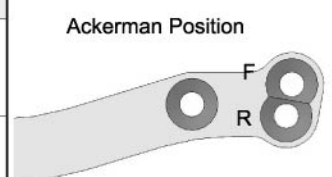
9. Ackerman Adjustment: Adjust the Ackerman angle by linking the front steering rods into the different holes on the steering slider.

阿克曼轉向角：阿克曼角角度的調整可經由更換轉向曲柄的固定孔位而改變。

Steering tie-rod mounting holes 曲柄固定孔	Characteristics 調整特性
Forward holes 外孔	Makes the steering response milder Suitable for high speed race way. 轉向反應較緩，適合高速場地
Rearward holes 內孔	Makes the steering response sharper. Suitable for narrow, tight tracks 轉向反應較快，適合彎曲狹窄場地

Note: Ensure you make equal adjustments on both left and right sides of the car.

註：調整時請注意左右邊固定孔位選擇需一致



SET UP SHEET

Name of Driver	Date	Track	Radio	Servo	Engine	Plug
Fuel	Spur/ Clutch Bell	Wheels	Tires	Inner	Muffler	
Brand: Nitro: %	T/ T					

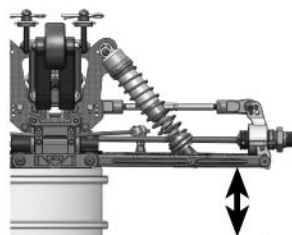
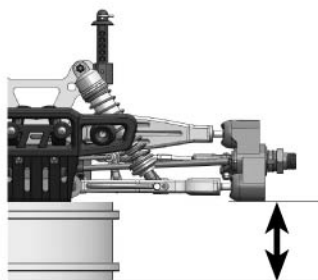
SHOCKS

(Shock Oil Brand: _____)

	Front	Rear
Shaft Type	☐ Std ☐ Other: _____	☐ Std ☐ Other: _____
Piston		
Piston Ball	☐ 0 ☐ 1 ☐ 2	☐ 0 ☐ 1 ☐ 2
Oil	#	#
Spring	☐ Blue: Softer(3.2lb) ☐ Red: Average(4.3lb) ☐ Black: Harder(5.2 lb)	☐ Blue: Softer(2.7lb) ☐ Red: Average(3.2lb) ☐ Black: Harder(4.5lb)
Spacer	mm	mm

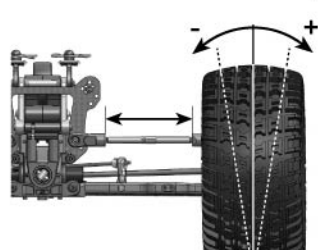
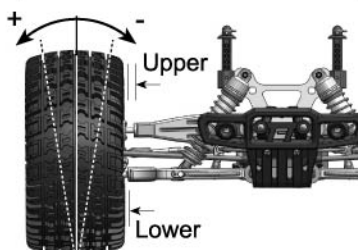
REBOUND STOP

Front	Rear
mm	mm

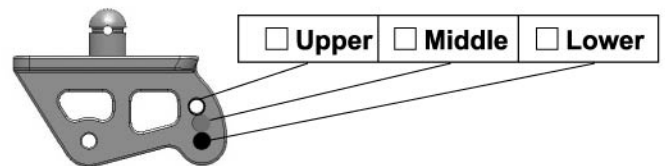


CAMBER ANGLE

Front	Rear
°Upper mm,	
°Lower mm	° mm



WING ANGLE



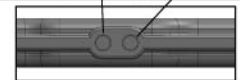
SHOCK MOUNT POSITION

Arm Mounting

Front ☐ IN ☐ OUT



Rear ☐ IN ☐ OUT



Tower Mounting

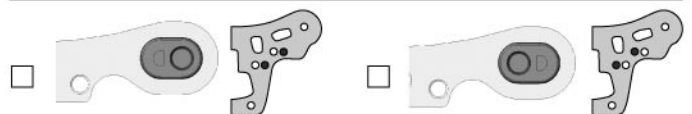
Front



Rear



FRONT ARM MOUNTING

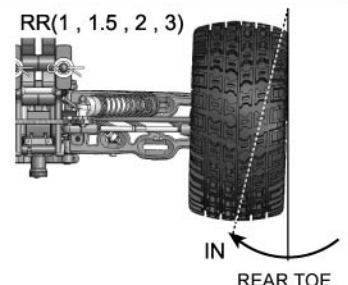
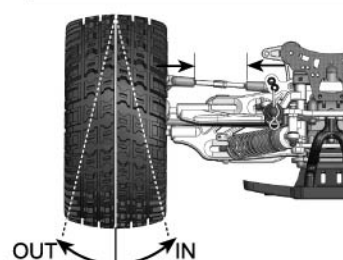


DIFF. OIL

	Front	Center	Rear
Oil	#	#	#

TOE ANGLE

Front	Rear
° mm	☐ 1, ☐ 1.5, ☐ 2, ☐ 3

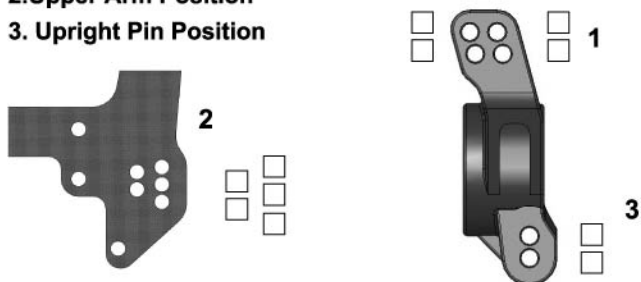


FRONT/ REAR SUSPENSION HOLDER

Front	Rear
☐ FF-1 	☐ RF0 
☐ FF0 	☐ RF2 
☐ FF1 	☐ RF3 
	☐ RF4 
 FR 	 ☐ RR1 
	☐ RR1.5 
	☐ RR2 
	☐ RR3 

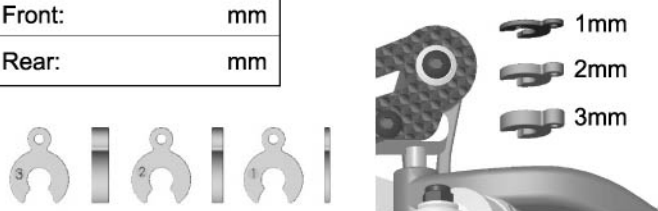
REAR UPPER ARM POSITION

1. Rear Hub Position
2. Upper Arm Position
3. Upright Pin Position



FRONT CASTER

Spacer: Max. 5mm	
Front:	mm
Rear:	mm



RACE NOTE

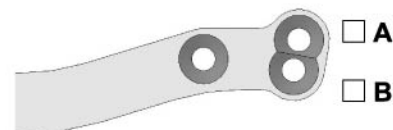
Main: _____ Place ☐ TQ _____

Notes: _____

STEERING PLATE

A: Front

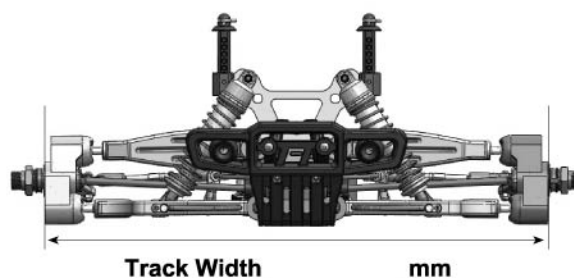
B: Rear



SWAY BAR

Front	Gold ø3	Black ø2.7	Silver ø2.5
Rear	Gold ø3	Black ø2.7	Silver ø2.5

TRACK WIDTH

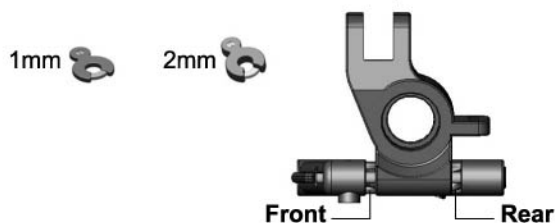


WHEELBASE ADJUSTMENT

Spacer:

Front: ☐ 1mm ☐ 2mm ☐ 3mm

Rear: ☐ 1mm ☐ 2mm ☐ 3mm



TRACK CONDITIONS

Surface: ☐ Smooth ☐ Bumpy

Bumps: _____

Traction: ☐ Low ☐ Med ☐ High

Composition: _____

☐ Sandy ☐ Soft Dirt ☐ Grass ☐ Clay ☐ Other

☐ Wet ☐ Dry ☐ Dusty ☐ Other



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JD6203