

# X1CR

COMPETITION RACER



## 1/18 SCALE OFF-ROAD COMPETITION BUGGY

## INSTRUCTION MANUAL 組立說明書

### Performance Features of the X1RTR

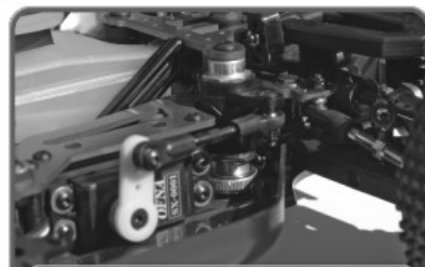
- Front universal joint. ● Front lay down steering servo. ● Increased suspension travel. ● Front and rear stiffeners.
- 7075 front and rear aluminum shock towers. ● 7075 front and rear aluminum arm holders. ● 3mm anodized aluminum chassis.
- New Kingpin with a T-Bolt and Nut design. ● Longer front and rear suspension arms. ● Steering geometry reduces bump steer.
- Low profile radio box. ● Anodized aluminum front top plate. ● Anodized aluminum radio tray. ● Center mounted low CG fuel tank to center chassis. ● Low profile body that helps promote better engine cooling. ● Lower CG components make for a quicker response and more stability. ● Quick change center diff. mount. ● Dual brake disk for front and rear.



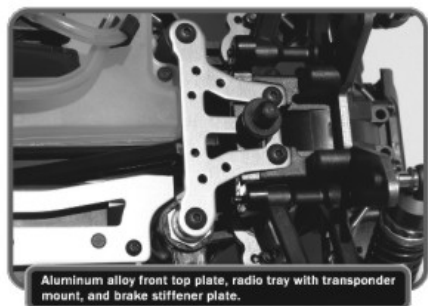
Long travel front suspension with increased up-travel.  
(Makes the car more forgiving and easier to drive)



Long travel rear suspension with increased up-travel.  
(Makes the car more forgiving and easier to drive)



Lay-down steering servo for a lower CG.  
Center mounted servo saver provide less bump steer.



Aluminum alloy front top plate, radio tray with transponder mount, and brake stiffener plate.



Fuel tank with splash guard - Mounted lower and more towards the center of chassis for more consistent handling



Hard anodized threaded shocks for quicker adjustment (3.5 mm shafts, dust covers & new o-ring)

### ADDITIONAL PARTS NEEDED

- GLOW PLUG CROSS WRENCH.
- RC CAR FUEL (20%)
- RECHARGEABLE GLOWIGNITOR.
- STARTER BOX OR STARTER.

需另購物件

- \* 火星塞
- \* 拆火星塞扳手
- \* 模型引擎用燃油
- \* 可充電點火夾
- \* 起動馬達或起動台

### THIS IS NOT A TOY!

- DO NOT USE WITH CHILDREN YOUNGER THAN 16 YEARS.
- MODEL PAINTING IS NOT PARTS OF THIS KIT.
- PAINT IS NOT INCLUDED.

本產品非玩具  
\* 16歲以下或兒童請勿玩用。

**HN**  
Racing

鴻諾企業有限公司  
HONG NOR ENTERPRISE CO., LTD.

5F NO.181-2, CHUNG HSING ROAD,  
HSICHIH CITY, TAIPEI HSIEN,  
TAWAN, R.O.C.

TEL: 886 2-2694-0345

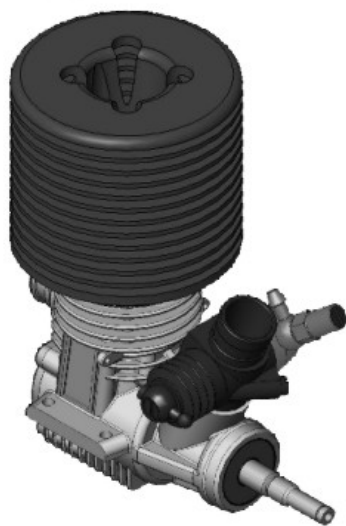
FAX: 886 2-2694-1632

www.hongnor.com

圖示產品有可能為試樣品,包裝內容以實際出貨為準。規格配備內容更改恕不另行通知。  
MODEL SHOWN MAY BE PROTOTYPE AND MAY VARY SLIGHTLY FROM KIT. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

THINGS NEED BESIDES THE KIT

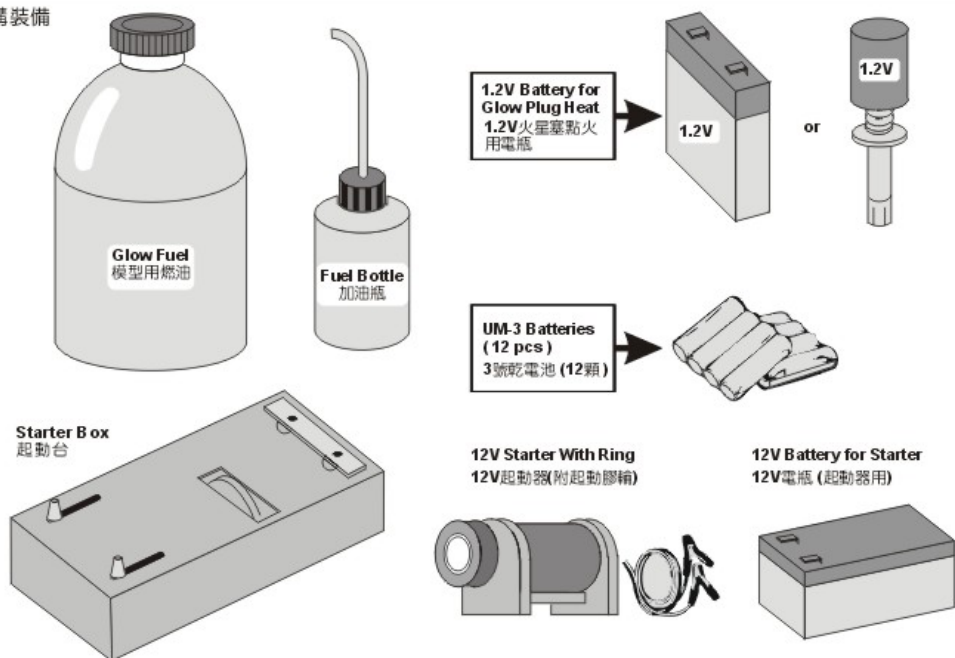
Note: The engine may not include in kit.  
引擎可能不包含在套件內



REAR EXHAUST 21 CLASS (3.5 cc) ENGINE

有關引擎使用及調整方式，請參照引擎工廠之手冊。

另購裝備



1.2V Battery for Glow Plug Heat  
1.2V 火柴塞點火用電池

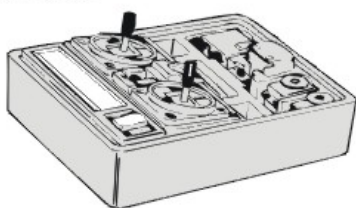
UM-3 Batteries (12 pcs)  
3號乾電池 (12顆)

12V Starter With Ring  
12V 起動器(附起動膠輪)

12V Battery for Starter  
12V 電池 (起動器用)

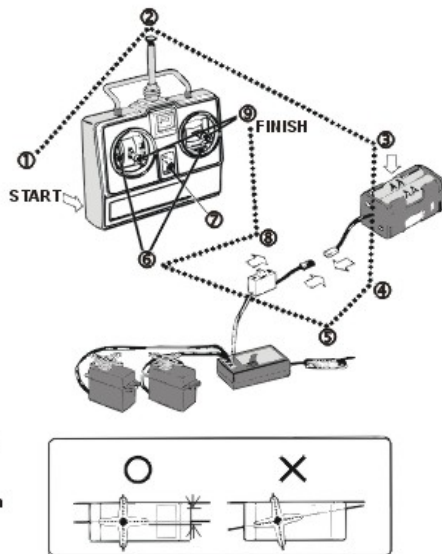
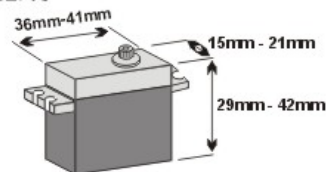
RADIO CONTROL UNIT 另購裝備

2動作遙控器組



Careful read the instruction manual of your 2 channel radio controller before using.  
使用遙控器前請先仔細閱讀原廠說明書

SUITABLE SERVO SIZE  
伺服機適合尺寸



Radio must be set at neutral position before installing in the kit.

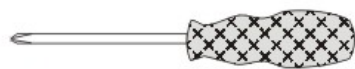
SEQUENCE TO SET NEUTRAL

遙控在組合前必要設立中立點

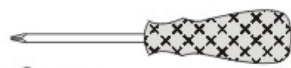
- |   |                                      |
|---|--------------------------------------|
| ① Install UM-3 batteries.   | 裝入 3 號乾電池(發射機用)                      |
| ② Extend the antenna.(Transmitter)  | 拉出天線                                 |
| ③ Install batteries.  | 裝入 3 號乾電池盒(接收機用)                     |
| ④ After installing the battery, connect the battery box.  | 連接電池盒至開關                             |
| ⑤ Extend the antenna. (Receiver)  | 拉長接收機天線                              |
| ⑥ Set the trim-level at center.   | 調整微調鈕至中央位置                           |
| ⑦ Turn on the switch. (Transmitter)   | 打開發射機電源                              |
| ⑧ Turn on the switch. (Receiver)  | 打開接收機電源                              |
| ⑨ Make sure the servos are in command.  | 確認伺服機的動作良好                           |
| ⑩ When the operation stick is in neutral, servo horns must be in neutral as will. (Adjustment can be made by re-installing the servo horn.) | 當遙桿位於中立點時，伺服機必須在中央位置。(折下伺服機可做調整中位置。) |
| ⑪ Turn off the switch. (Receiver)   | 閉接收機電源                               |
| ⑫ Turn off the switch. (Transmitter)  | 關閉發射機電源                              |
| ⑬ Retract the antenna. (Transmitter)  | 收回發射機天線                              |

TOOLS NOT INCLUDED IN KIT

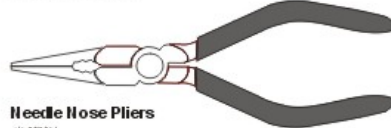
需使用之工具



Phillips Type Screw Drivers (L)  
大型十字螺絲起子



Phillips Type Screw Drivers (S)  
小型十字螺絲起子



Needle Nose Pliers  
尖嘴鉗



Knife  
美工刀



Cutter  
斜口鉗



Curved Scissors  
彎頭剪刀



Precision Caliper  
游標卡尺



Brush  
毛刷



Cross Wrench  
六角起子



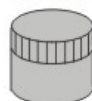
Instant Cement  
3秒瞬間膠水



Masking Tape  
紙膠帶



Paints  
模型用油漆



INCLUDED WITH KIT

套件內裝備



Shock Oil  
避震器油

Diff. Oil  
差速器油

1000

3000

5000

1.5mm Allen Wrench  
1.5mm 內六角板手

2mm Allen Wrench  
2mm 內六角板手

2.5mm Allen Wrench  
2.5mm 內六角板手

4mm/5mm Allen Wrench  
4mm/5mm 六角板手



遙控車在操作上雖好玩且容易，但如果想玩的更安全和更不一樣的體驗，請遵守以下幾點。另外，由於此模型車的時速超過40公里，如果不小心使用，可能會傷及他人。

## 1. 哪兒是適合操作的場地呢？

- ◎任何乾燥的空地。勿在水池或濕地。
- ◎勿在大街上，因為它可能會被行駛中的車輛輾過或碰撞而導致有所損傷。
- ◎勿在空間狹窄的地方操作；因為它的速度快很容易碰撞物件。
- ◎勿駕駛於人群或動物旁；如您是非專業人士操作，他們都可能發生危險。
- ◎由於當它被啟動後會發出很大聲響，在操作前請先考慮其周圍的環境。
- ◎勿在晚上操作模型車，因可能視線不佳而導致它發生碰撞。
- ◎勿在室內操作；因為發動引擎後所排出的廢氣對人體有害。

## 2. 燃油

- ◎它是有害身心的。
- ◎它是易燃的。
- ◎別讓它從油瓶溢出。
- ◎勿將其他非專業燃油放入引擎中。

## 3. 第一次發動引擎

注意！  
在您發動引擎前請先確認以下幾點：

- ◎將主油針設定在3圈位置（富油狀態）。
- ◎別獨自一人組裝，請找位有經驗的朋友幫忙一起完成。
- ◎裝滿油箱試著別溢出油箱於容器上。
- ◎遲些將模型車放置地面上，避免一開始它亂跑。
- ◎發動引擎前，請先確認無線電設備是否已連結。
- ◎發動引擎前，請先打開遙控發射機和接收器的電源，並檢查各項連結桿。
- ◎需要安裝空氣濾清器在化油器上，使其不被弄髒。

## 4. 磨合引擎

- ◎閱讀後面幾頁。
- 5. 緊急停止正發動中的引擎
  - ◎移除空氣濾器和堵住化油器的引入口。
  - ◎握緊油管直到引擎停止。
  - ◎用破布等填塞物，堵住廢氣排放口。
- 6. 操作後之收藏動作
  - ◎移除油箱和油管中的燃油。
  - ◎關閉模型車上的無線電。
  - ◎滴入少許保養油於引擎中，以免它生鏽。
  - ◎用去污布擦去底盤上的油污。

## 7. 叮嚀注意事項

- ◎此模型車並非一般玩具，操作時至少二人，一為操作者，一為監督者。
- ◎溫度過高的零件—如排氣管、引擎等，勿用手觸碰，以免燙傷。
- ◎運轉中的零件—如車輪、齒輪和引擎等，勿用動手去調整。
- ◎無線電—在操作前先檢查電池的電量，當電量不足時，將不能完全控制油門及剎車或行進方向。此刻請立即停駛，並換上新電池。如果不立即改善，將導致人體受傷或車子受損；我們極力建議裝配“防暴走”裝置在你的車上。
- ◎燃料油—勿讓油溢出瓶口；因為它的成份中含有甲醇和甲烷皆為易燃物且一旦吸入是有害健康的。

油品應當置放於低溫且通風的地方，並貼上“小心使用”的標籤。

- ◎車子上的油箱—在操作後，別存留油於油箱中，如不慎流出會破壞引擎。
- ◎平時不操作模型車時，必要將關閉車上電源，然後關閉遙控器。
- ◎如果車子因無法控制以致損壞，將導致不在保證之內。

忽略閱讀磨合引擎的相關說明，將會失去保證條款。

# IMPORTANT-READ THIS BEFORE RUNNING

Running nitro kit is fun and easy, but to make this a safe and good experience you must observe a few rules. This kit is extremely fast, easily over 40MPH, and can seriously injure someone if you are not careful.

## 1. Where to run car?

- ⊙ Any running area you choose must be dry. Do not run car near any water or wet dirt.
- ⊙ Do not run on public streets. It is very easy to have the car run over or damaged by hitting the curb.
- ⊙ Do not operate the car in tight confined places. The car is very fast and will easily hit something.
- ⊙ Do not run near people or animals. The car is very fast and could easily hit someone if you are not an expert driver.
- ⊙ Do to noise, you will want to consider the surrounding area when operating the car.
- ⊙ Do not operate the car at night. You will not be able to drive it without hitting something.
- ⊙ Do not operate the car indoors. Engine exhaust is not healthy.

## 2. Glow Fuel

- ⊙ Glow fuel is poisonous!
- ⊙ Glow fuel is flammable!
- ⊙ Do not leave in fuel bottle with lid off at any time.
- ⊙ Do use any fuel other than glow fuel in this engine.

## 3. First Time Starting the Engine

### Caution!

When starting engine make sure the following is observed.

- ⊙ Set engine Master needle to 3 turns (rich setting)
- ⊙ Do not do this alone, get an experienced friend to help at first.
- ⊙ Fill fuel tank, try not to spill fuel. Do not spill fuel on receiver.
- ⊙ Hold car off the ground, so it will not runaway when first starts.
- ⊙ Turn on Radio and check the linkage before starting engine.
- ⊙ Turn on car receiver battery switch.
- ⊙ Always have an air filter on the carburetor to keep dirt out.

## 4. Engine Break-in

- ⊙ See section.

## 5. Emergency Stopping Engine When Running

- ⊙ Remove air filter and cover carb. intake.
- ⊙ Squeeze fuel line and hold until engine stops.
- ⊙ With a rag, cover exhaust outlet.

## 6. Storing Car After Running

- ⊙ Remove fuel from tank and fuel lines
- ⊙ Turn off radio in car
- ⊙ Put a few drops of after run in engine to keep it from rusting.
- ⊙ Clear oil and dirt from chassis with a degreaser.

## 7. Precautions

- ⊙ This kit is not a toy. Always run car with a second person as a spotter and pitman.
- ⊙ Hot Parts-The pipe, manifold, engine and head are very hot and will cause burns.
- ⊙ Rotating Parts-Keep hands away from the drive train, wheels, and engine when engine is running.
- ⊙ Radio-Check battery life before running the car. If radio does not have full control of the car with steering and/or throttle/brake, do not run until corrected. Failure to correct this will result in possible injury and damage to the car or property. We strongly recommend using a Failsafe.
- ⊙ Glow fuel-Do not leave the glow fuel unattended with the lid off. Fuel contains Methanol and Nitro Methane and is flammable and poisonous.

Store fuel in cool ventilated location.

Refer to the glow fuel label for additional precautions.

- ⊙ Fuel tank in the car-Never store fuel in car tank, it will ruin the engine if left in tank.
- ⊙ Always turn off the car BEFORE turning off radio.
- ⊙ DAMAGE DUE CAR RUN AWAY IS NOT A WARRANTY ISSUE .

**IF YOU DO NOT BREAK-IN ENGINE CORRECTLY, AT LOW-MID RPM, YOU WILL BREAK THE CONNECTING ROD!**

**FAILURE TO READ AND FOLLOW BREAK-IN ENGINE INSTRUCTIONS WILL VOID WARRANTY!**



**操作前  
Before Running**

Your radio control model can move at high speed and therefore can cause injury to people or damage property. It is your responsibility to operate your model safely.

你所駕駛的遙控模型車的速度是很快，因此很容易會導致人或財物的損失，所以操作者需負責其安全性。

For radio equipment, refer to the manual included with the radio.

無線電設備，包含了模型車上的接收器和遙控器。

Check that all screws and nuts are tight.

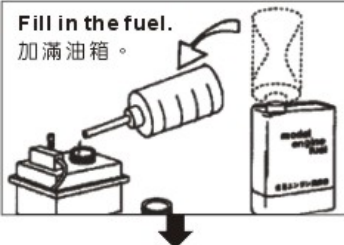
確認所有的螺絲是否已全部鎖緊。

If the model begins to operate by itself, there is someone else on your frequency. Do not try to operate your model under these conditions for it may go out of control.

如果一開始模型車不受你所控制時，可能是受到另一個頻率干擾到，在這種情況之下，請別一再嘗試去控制你的模型車，以免它失控。

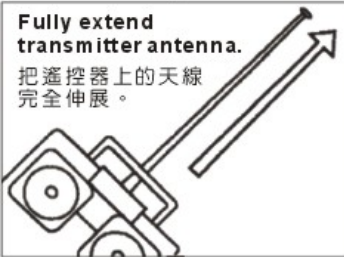
Fill in the fuel.

加滿油箱。



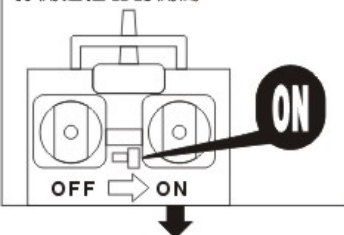
Fully extend transmitter antenna.

把遙控器上的天線完全伸展。



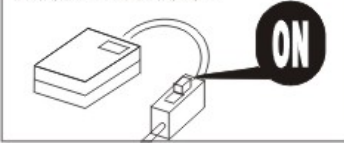
Switch on transmitter.

打開遙控器的開關。



Switch on receiver.

打開接收器的開關。



**啟動引擎  
Engine Start-Up**

For engine use, refer to the manual included with the engine. 閱讀其引擎說明書。



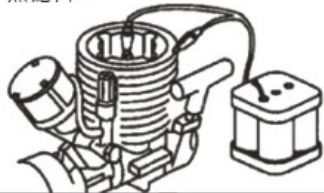
To prime the engine with fuel, press down the primer button.

首先，裝填引擎燃料，再按下進油幫浦（如果有此裝備）。



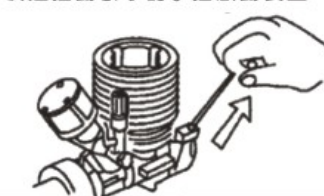
Attach one clip to the glow plug's end and the other clip to one of the cylinder cooling fins.

使用一個啟動火星塞用電夾，一端夾住火星塞，一端夾住散熱片。



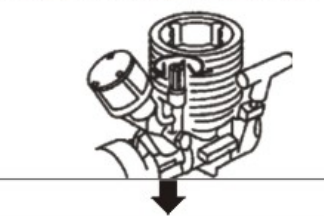
Quickly pull the starter rope (to start the engine).

快速拉動引擎的手拉啟動裝置。



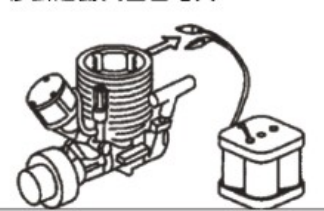
Adjust by screwing the needle little by little.

以順時針方向逐漸地微調油針。



Remove the clips from the engine.

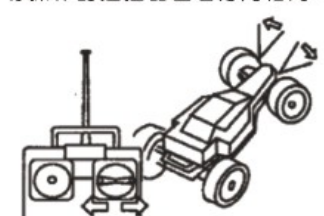
移去啟動火星塞電夾。



**操作時  
While Running**

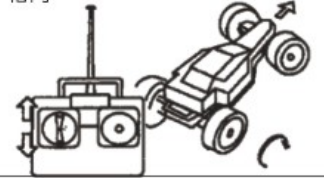
Check that the model turns in proportion to the amount you move the steering control of the transmitter.

試跑遙控車的行進方向是否和你操作的遙控器左右方向相同。



Check that the speed of the model changes in proportion to the amount you move the speed control of the transmitter.

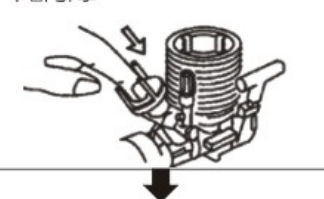
試跑遙控車的行進方向是否和你操作的遙控器前後方向相同。



**操作後  
After Running**

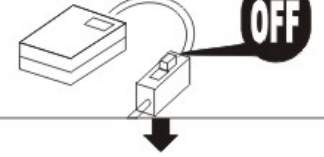
By pushing with your fingers the air cleaner, interrupt the engine.

用手指壓下空氣濾清器，可以中斷引擎。



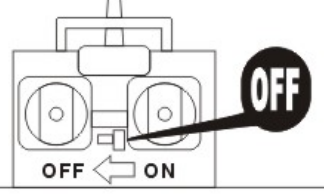
Switch off receiver.

關閉接收器電源。



Switch off transmitter.

關閉遙控器的電源。



Proper maintenance extends the life of the model.

正確的保養可延長模型車的壽命。

Use genuine parts.

使用原廠零件。

**安全注意事項  
Cautions for Safety**

Do not run your model through water. This may cause rust or electrical problems.

勿駕駛遙控車接近水池或溼地。此行為會導致引發電子零件故障！



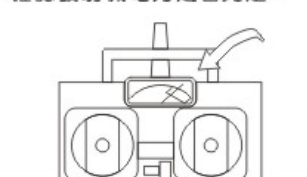
If model does not operate correctly stop it and find the cause.

如果遙控車有不正確表現，請停止操作，並立即檢查原因。



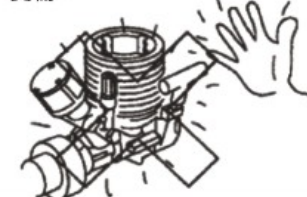
Check the batteries.

確認發射機電力是否充足。



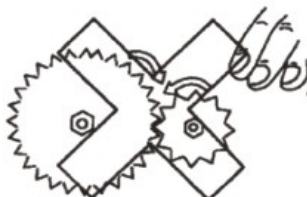
After each run, the model is hot. Beware of getting burned.

每次行駛都將導致引擎在高溫中，請勿用手觸摸引擎，以免燙傷。



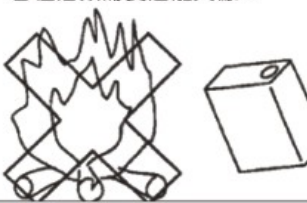
Keep hands and tools away from moving parts.

勿用手碰觸運轉中的零件。



Never throw burning, gleaming or smouldering things into fuel cans even if these happen to be empty. This is very dangerous to life!!

各種油類需要遠離火源。





**操作前  
Before Running**

Your radio control model can move at high speed and therefore can cause injury to people or damage property. It is your responsibility to operate your model safely.

你所駕駛的遙控模型車的速度是很快，因此很容易會導致人或財物的損失，所以操作者需負責其安全性。

For radio equipment, refer to the manual included with the radio.

無線電設備，包含了模型車上的接收器和遙控器。

Check that all screws and nuts are tight.

確認所有的螺絲是否已全部鎖緊。

If the model begins to operate by itself, there is someone else on your frequency. Do not try to operate your model under these conditions for it may go out of control.

如果一開始模型車不受你所控制時，可能是受到另一個頻率干擾到，在這種情況之下，請別一再嘗試去控制你的模型車，以免它失控。

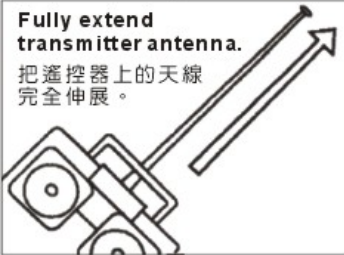
Fill in the fuel.

加滿油箱。



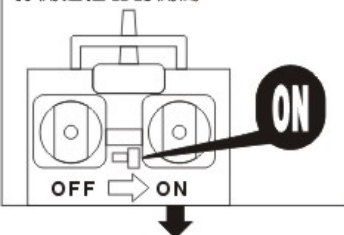
Fully extend transmitter antenna.

把遙控器上的天線完全伸展。



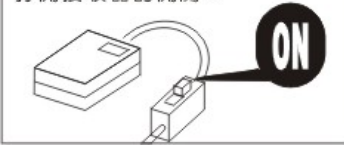
Switch on transmitter.

打開遙控器的開關。



Switch on receiver.

打開接收器的開關。



**啟動引擎  
Engine Start-Up**

For engine use, refer to the manual included with the engine. 閱讀其引擎說明書。



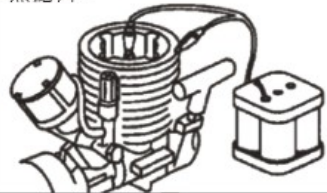
To prime the engine with fuel, press down the primer button.

首先，裝填引擎燃料，再按下進油幫浦（如果有此裝備）。



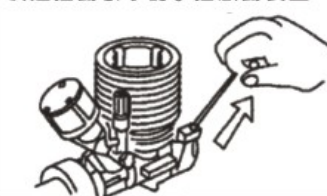
Attach one clip to the glow plug's end and the other clip to one of the cylinder cooling fins.

使用一個啟動火星塞用電夾，一端夾住火星塞，一端夾住散熱片。



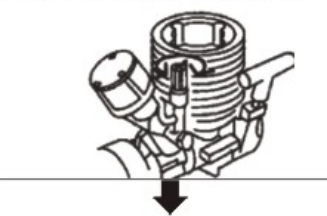
Quickly pull the starter rope (to start the engine).

快速拉動引擎的手拉啟動裝置。



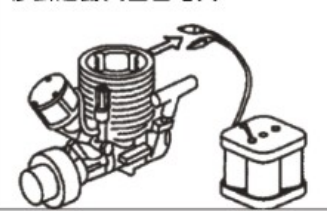
Adjust by screwing the needle little by little.

以順時針方向逐漸地微調油針。



Remove the clips from the engine.

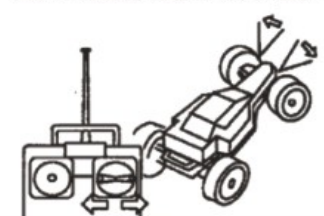
移去啟動火星塞電夾。



**操作時  
While Running**

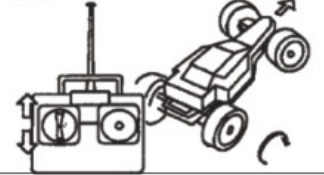
Check that the model turns in proportion to the amount you move the steering control of the transmitter.

試跑遙控車的行進方向是否和你操作的遙控器左右方向相同。



Check that the speed of the model changes in proportion to the amount you move the speed control of the transmitter.

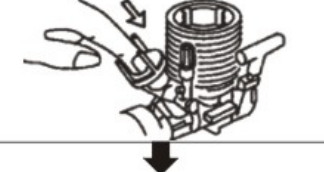
試跑遙控車的行進方向是否和你操作的遙控器前後方向相同。



**操作後  
After Running**

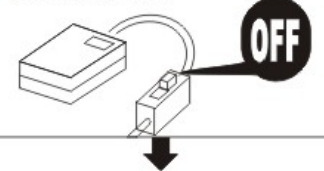
By pushing with your fingers the air cleaner, interrupt the engine.

用手指壓下空氣濾清器，可以中斷引擎。



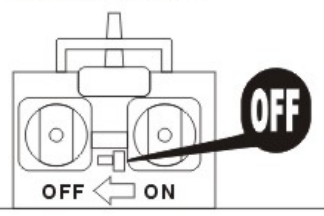
Switch off receiver.

關閉接收器電源。



Switch off transmitter.

關閉遙控器的電源。



Proper maintenance extends the life of the model.

正確的保養可延長模型車的壽命。

Use genuine parts.

使用原廠零件。

**安全注意事項  
Cautions for Safety**

Do not run your model through water. This may cause rust or electrical problems.

勿駕駛遙控車接近水池或溼地。此行為會導致引發電子零件故障！



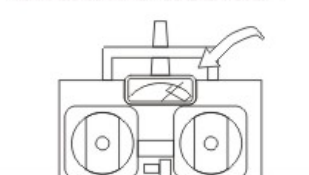
If model does not operate correctly stop it and find the cause.

如果遙控車有不正確表現，請停止操作，並立即檢查原因。



Check the batteries.

確認發射機電力是否充足。



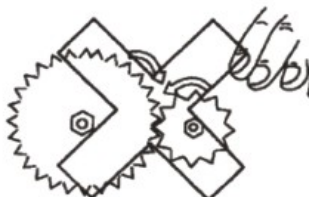
After each run, the model is hot. Beware of getting burned.

每次行駛都將導致引擎在高溫中，請勿用手觸摸引擎，以免燙傷。



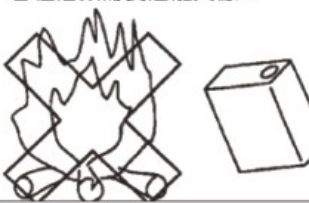
Keep hands and tools away from moving parts.

勿用手碰觸運轉中的零件。



Never throw burning, gleaming or smouldering things into fuel cans even if these happen to be empty. This is very dangerous to life!!

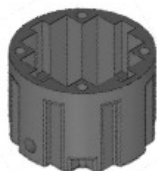
各種油類需要遠離火源。





# PLASTIC PARTS FOR USE

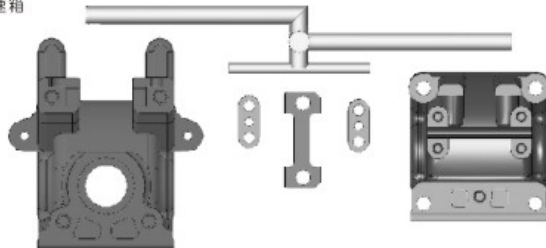
**X1-38**  
DIFF. CASE  
差速器殼



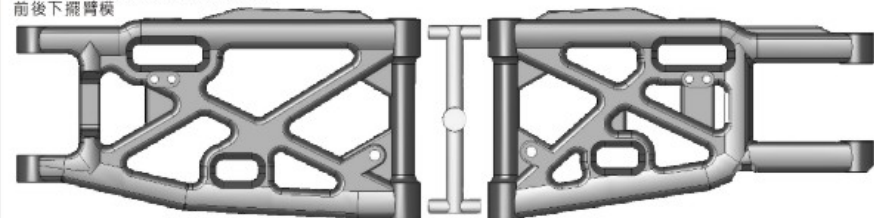
**X1-36**  
FRONT CHUB  
C型座



**X1-33**  
FRONT AND REAR GEAR BOX  
差速箱



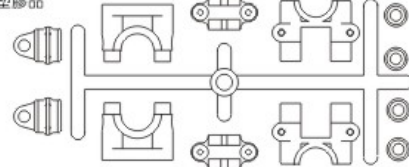
**X1-35**  
FRONT AND REAR LOWER ARM  
前後下擺臂模



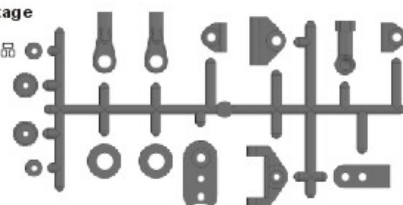
**X-37**  
FRONT UPPER ARM  
前上擺臂模



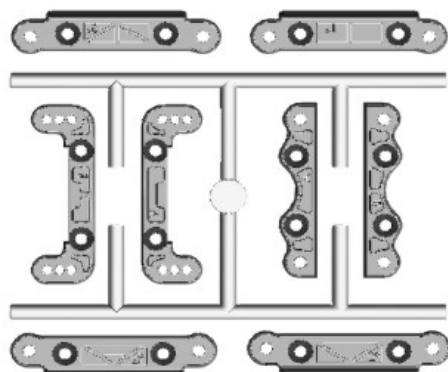
**J-36**  
CENTER DIFF. MOUNT PLASTIC PARTS  
中差座塑膠品



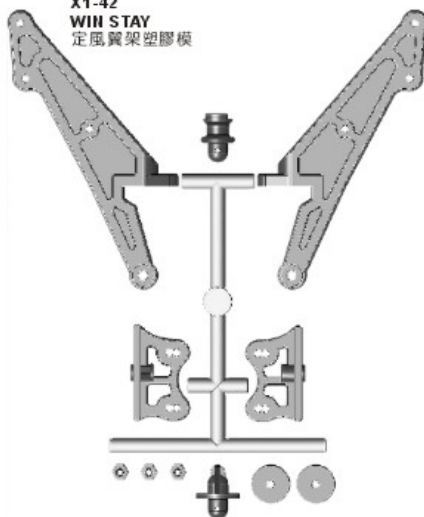
**A-80B**  
Throttle Linkage  
Plastic  
油門拉桿塑膠品



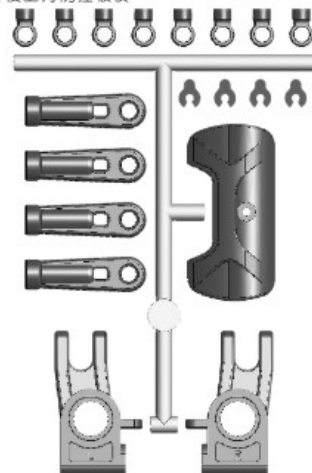
**X1-34**  
ARMHOLDER  
擺臂固定座模



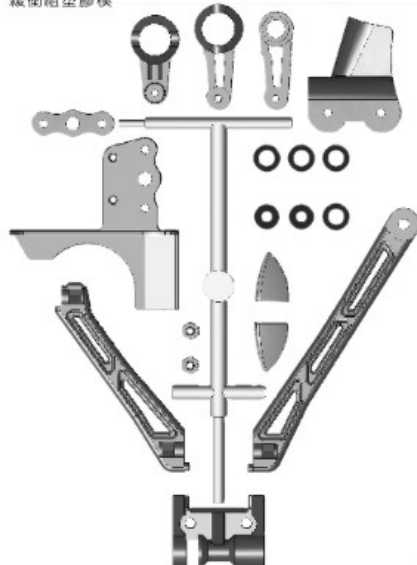
**X1-42**  
WIND STAY  
定風翼架塑膠模



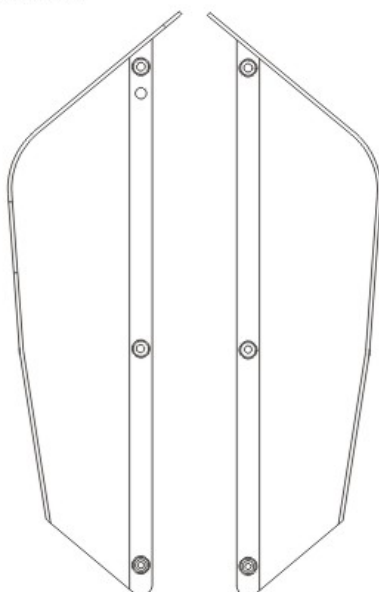
**X1-40**  
REAR UPPER RIGHT/FRONT BUMPER  
後輪座/後上轉防撞板模



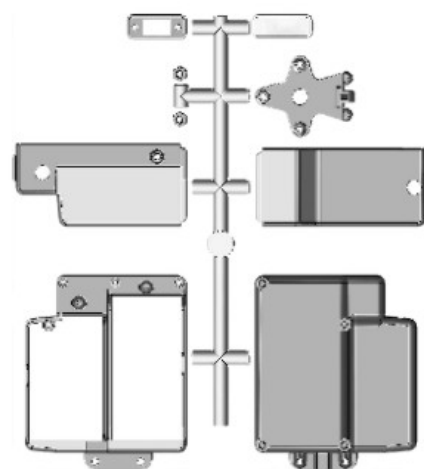
**X1-39**  
SERVO SAVER  
緩衝組塑膠模



**J-41**  
STONE GUARD PLASTIC PARTS  
防塵板塑膠品



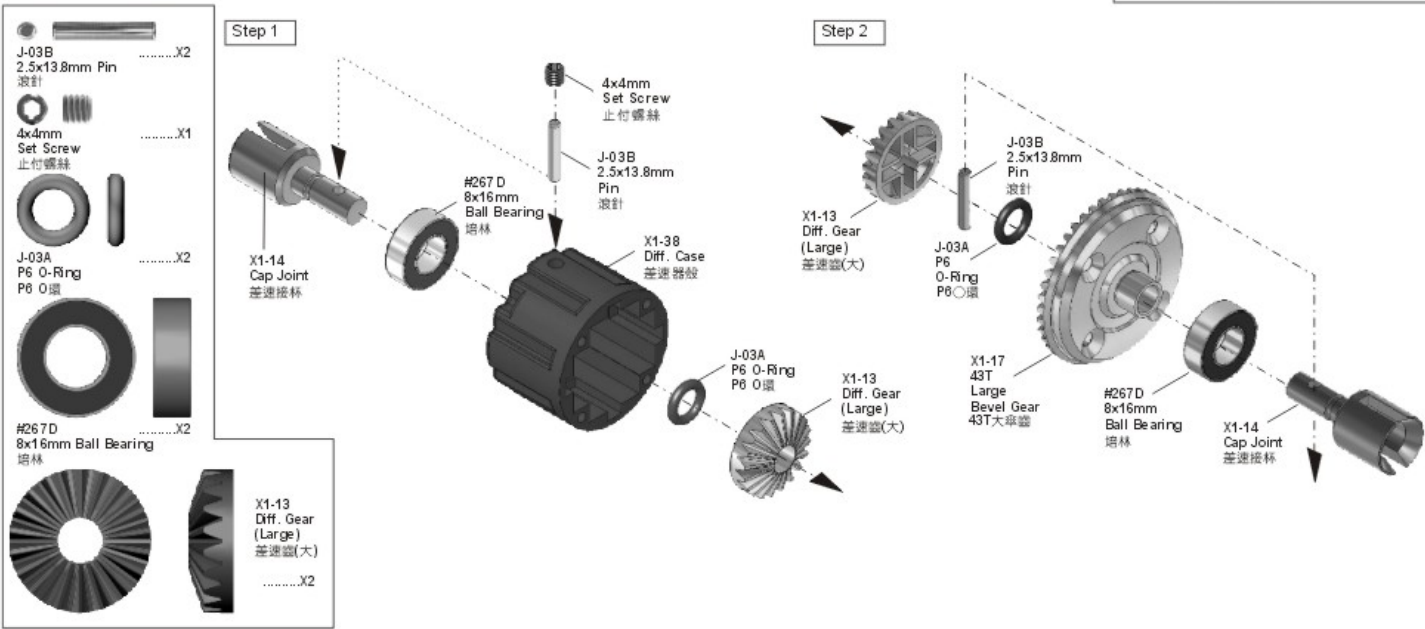
**X1-41**  
RECEIVER BOX  
防水盒塑膠模



# 1 ASSEMBLY OF THE FRONT AND REAR DIFF.

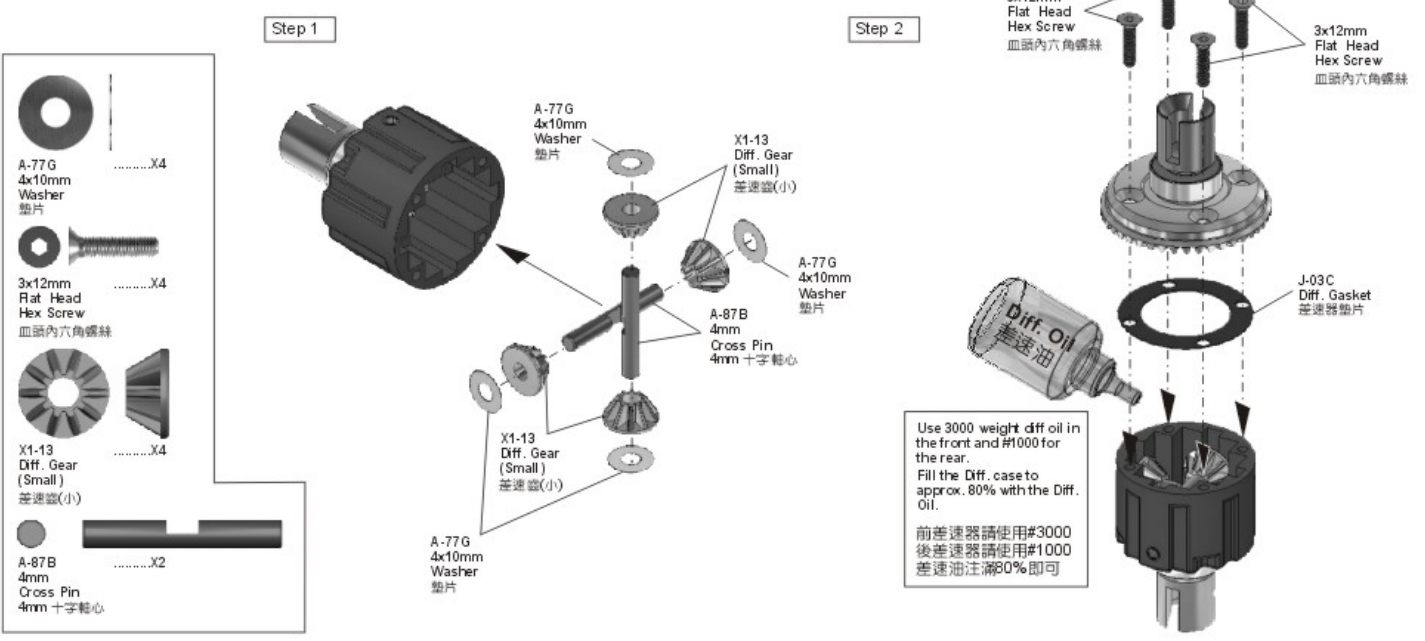
## 前後差速齒輪組合

**Builds two differentials for front and rear.**  
請組合兩個差速器為前後使用。



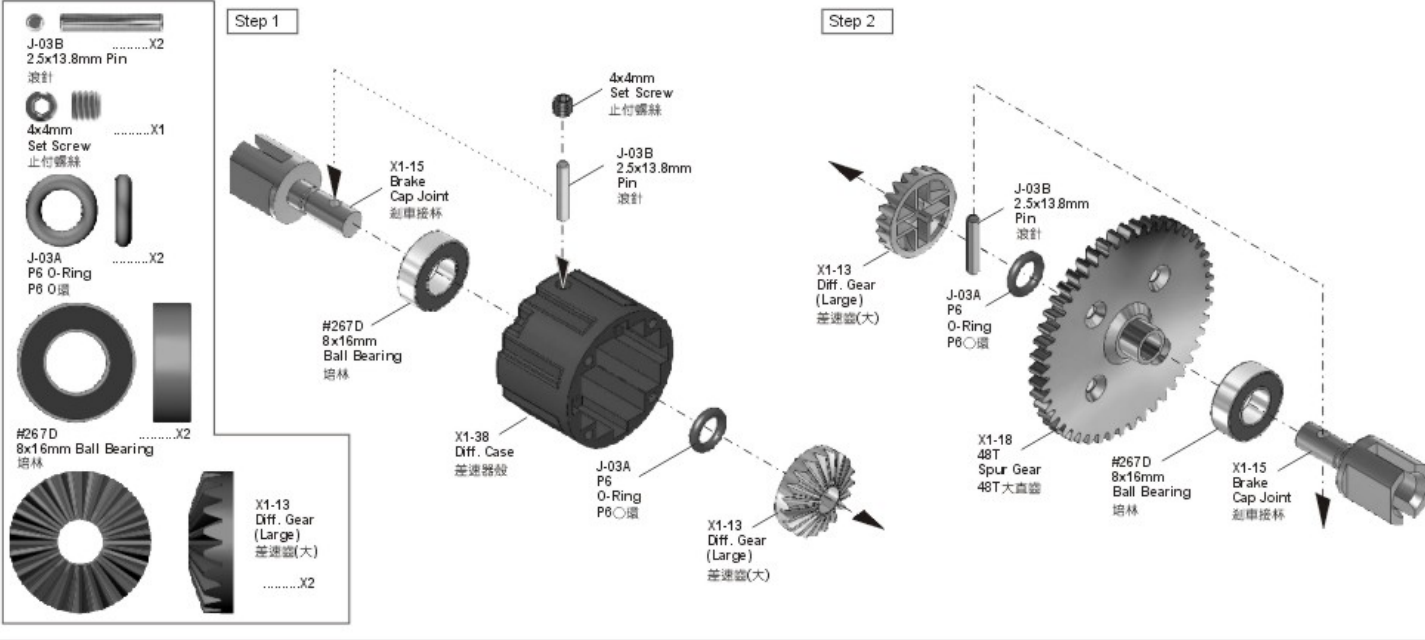
# 2 ASSEMBLY OF THE FRONT AND REAR DIFF.

## 前後差速齒輪組合



# 3 ASSEMBLY OF THE CENTER DIFF.

## 中央差速齒輪組合





## 4 ASSEMBLY OF THE CENTER DIFF. 中央差速齒輪組合

**Step 1**

- A-77G 4x10mm Washer 墊片 .....X4
- 3x12mm Flat Head Hex Screw 皿頭內六角螺絲 .....X4
- X1-13 Diff. Gear (Small) 差速齒(小) .....X4
- A-87B 4mm Cross Pin 4mm 十字軸心 .....X2

**Step 2**

- 3x12mm Flat Head Hex Screw 皿頭內六角螺絲
- 3x12mm Flat Head Hex Screw 皿頭內六角螺絲
- J-03C Diff. Gasket 差速器墊片

Use 5000 weight diff. oil in the center. Fill the Diff. Case to approx. 80% with the Diff. Oil.  
中差速器請使用#5000 差速油注滿80%即可

## 5 ASSEMBLY OF THE FRONT GEAR CASE 前齒輪箱組合

**Step 1**

- J-20 13x16x0.2mm Shim 薄墊片 .....X4
- #267D 8x16mm Ball Bearing 培林 .....X2
- 4x16mm Hex Screw 半丸內六角螺絲 .....X2
- 4x35mm Hex Screw 半丸內六角螺絲 .....X2

**Step 2**

- X1-33 Gear Case 齒輪箱
- #267D 8x16mm Ball Bearing 培林
- J-20 13x16x0.2mm Shim 薄墊片
- X1-16 13T Small Bevel Gear 13T小傘齒
- X1-08H Front Lower Arm Holder (Hard-Coated) 鈦前下擺臂固定座(硬膜)

\*A adjust the backlash with the shims.  
\*請使用薄墊片調整間隙。

## 6 ASSEMBLY OF THE FRONT ARM HOLDERS 前擺臂固定座組合

**Step 1**

- 5x4mm Set Screw 止付螺絲 .....X1
- 4x16mm Flat Head Hex Screw 皿頭內六角螺絲 .....X4

**Step 2**

- X1-34 Front Upper Arm Holder (Rear/Plastic) 前上擺臂固定座
- X1-34 Front Lower Arm Holder (Rear/Plastic) 前下擺臂固定座
- 4x16mm Flat Head Hex Screw 皿頭內六角螺絲

**Caster angle can be changed by using either A or B set.**  
可使用A或B調整傾角特性。

NB. use only as matched set "A" with "A" and "B" with "B".  
選擇使用A上擺臂固定座時,必需也要使用A下擺臂固定座。

	Steering Characteristics 轉向特性
<b>A</b> Caster (High) 後傾角(大)	Steering becomes milder. 轉向反應較為中性
<b>B</b> Caster (Low) 後傾角(小)	Steering response becomes quicker. 轉向反應較為快速

## 7 ASSEMBLY OF THE FRONT SHOCK STAY 前油壓架組合

**Step 1**

X1-02 Alum. Front Shock Stay  
前油壓架

3x25mm Cap Screw  
有頭內六角螺絲

X1-31 Shock Ball End Post  
一體式避震器上支座

3x25mm Cap Screw  
有頭內六角螺絲

**Step 2**

4x10mm Hex Screw  
半丸內六角螺絲

3x10mm Hex Screw  
半丸內六角螺絲

4x10mm Hex Screw  
半丸內六角螺絲

**X1-31 Shock Ball End Post** .....X2

**3x10mm Hex Screw** .....X2

**4x10mm Hex Screw** .....X4

**3x25mm Cap Screw** .....X2

## 8 ASSEMBLY OF THE KNUCKLE ARMS 轉向座組合

**Step 1**

X1-36 Front C Hub  
C型座

X1-27 Knuckle Arm Bushing  
轉向座襯套

**5x4mm Set Screw** .....X2

**M4 Nylon Nut** .....X4

**2.5x16.8mm Pin** .....X2

**X1-27 Knuckle Arm Bushing** .....X4

**X1-28 King Screw** .....X4

**Step 2**

**#267D 8x16x5mm Ball Bearing** .....X2

**X1-20 Alloy Front Knuckle Arm (Left)** .....X2

**#267E 8x16x5mm Ball Bearing** .....X2

**Step 3**

**M4 Nylon Nut** .....X4

**X1-28 King Screw** .....X4

**M4 Nylon Nut** .....X4

**Step 4**

**X1-21 Universal Joint (Front)** .....X2

**Assembly for both right and left side.**  
請組合左 / 右兩側

**#267D 8x16x5mm Ball Bearing** .....X2

**X1-20 Alloy Front Knuckle Arm (Left)** .....X2

**#267E 8x16x5mm Ball Bearing** .....X2

**X1-26 3mm Alum. Wheel Hub** .....X2

**5x4mm Set Screw** .....X2

**#267E 2.5x16.8mm Pin** .....X2

**Right side**  
右側

## 9 ASSEMBLY OF THE FRONT SUSPENSION ARMS 前懸吊系統組合

**Step 1**

**2.5mm E-Ring** .....X4

**3mm E-Ring** .....X4

**4x10mm Set Screw** .....X2

**X1-46 3x42.7mm Arm Shaft** .....X2

**X1-24 4x73mm Arm Shaft** .....X2

**Step 2**

**3mm E-Ring** .....X4

**4x10mm Set Screw** .....X2

**X1-35 Front Lower Arm** .....X2

**2.5mm E-Ring** .....X4

**X1-46 3x42.7mm Arm Shaft** .....X2

**Assembly for both right and left side.**  
請組合左 / 右兩側

**Insert the front drive shaft into cap joint before assembly**  
組合前請先將傳動軸放入接林內。

**3mm E-Ring** .....X4

**4x10mm Set Screw** .....X2

**2.5mm E-Ring** .....X4

**X1-35 Front Lower Arm** .....X2

**2.5mm E-Ring** .....X4

**X1-46 3x42.7mm Arm Shaft** .....X2

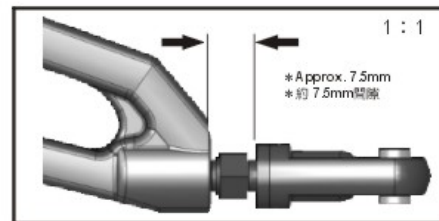
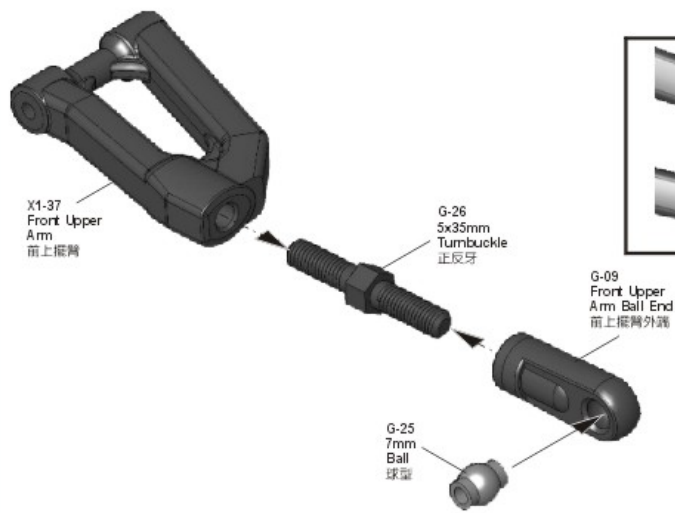
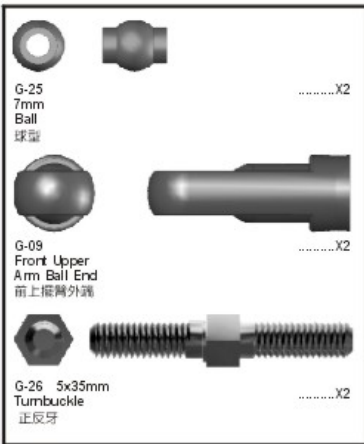
**\*A 4x10mm set screw is used to adjust ride-height.**  
4x10mm止付螺絲為調整車高用。



## 10 ASSEMBLY OF THE FRONT UPPER ARMS

前上擺臂組合

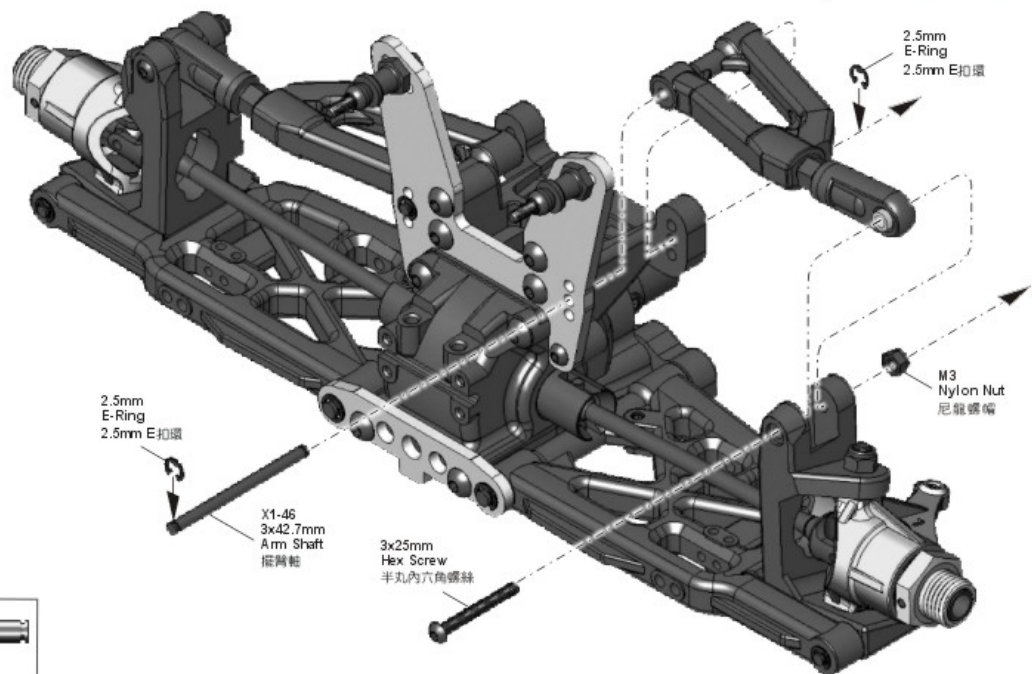
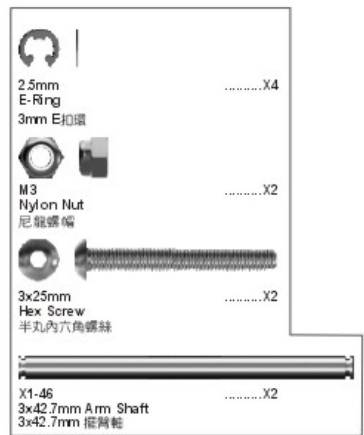
Assembly for both right and left side.  
請組合左/右兩側



## 11 ASSEMBLY OF THE FRONT SUSPENSION ARMS

前懸吊系統組合

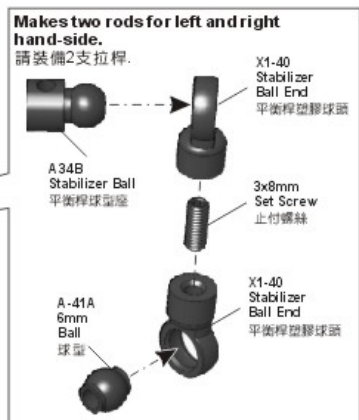
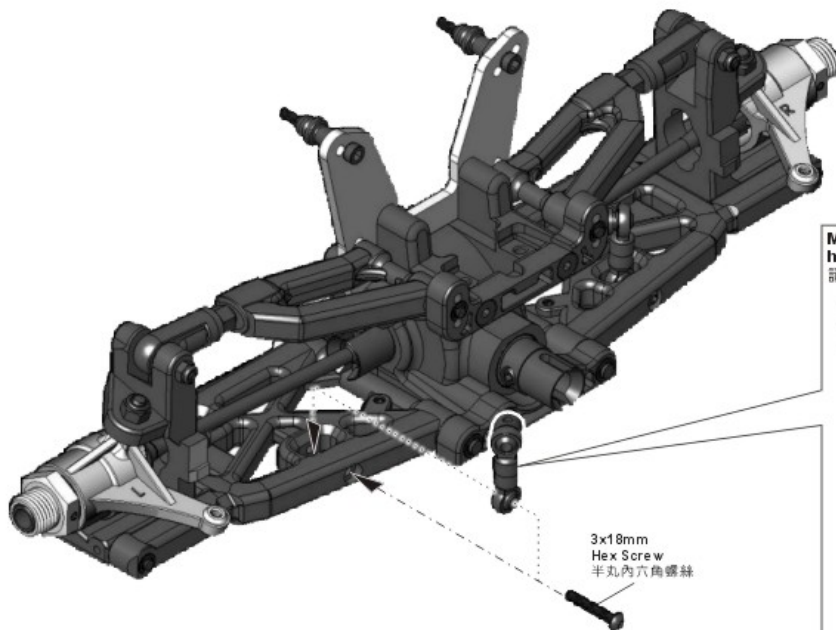
Assembly for both right and left side.  
請組合左/右兩側



## 12 ASSEMBLY OF THE FRONT STABILIZER

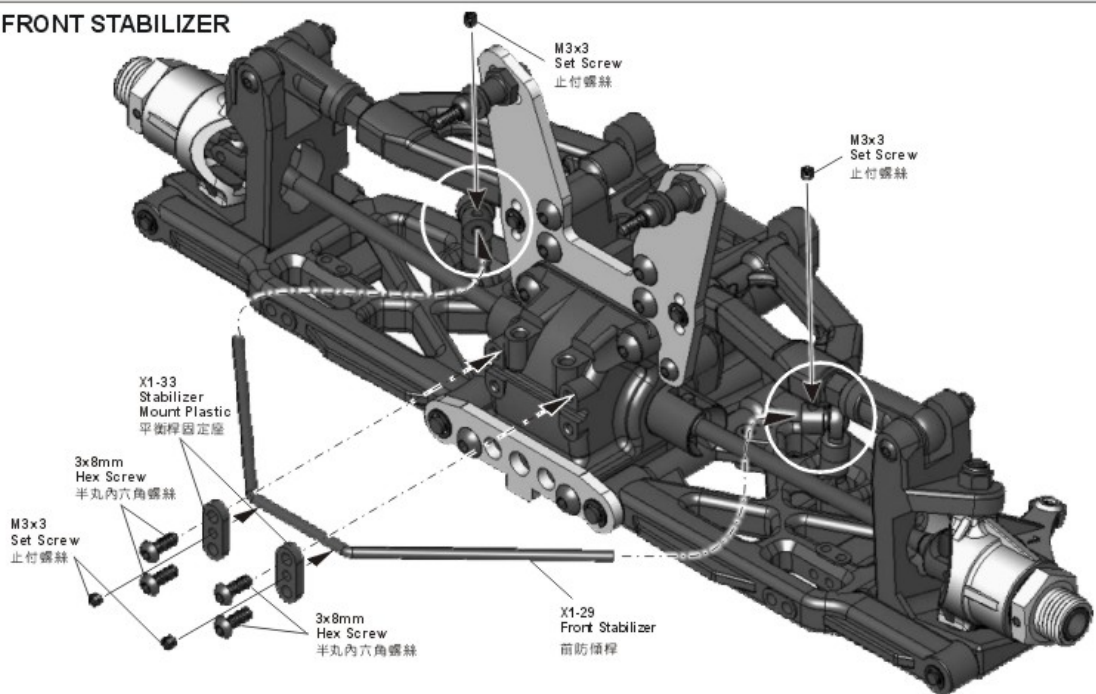
前平衡桿組合

Assembly for both right and left side.  
請組合左/右兩側



### 13 ASSEMBLY OF THE FRONT STABILIZER 前平衡桿組合

- M3x3 Set Screw 止付螺絲 .....X4
- 3x8mm Hex Screw 半孔內六角螺絲 .....X4
- X1-33 Stabilizer Mount Plastic 平衡桿固定座 .....X2

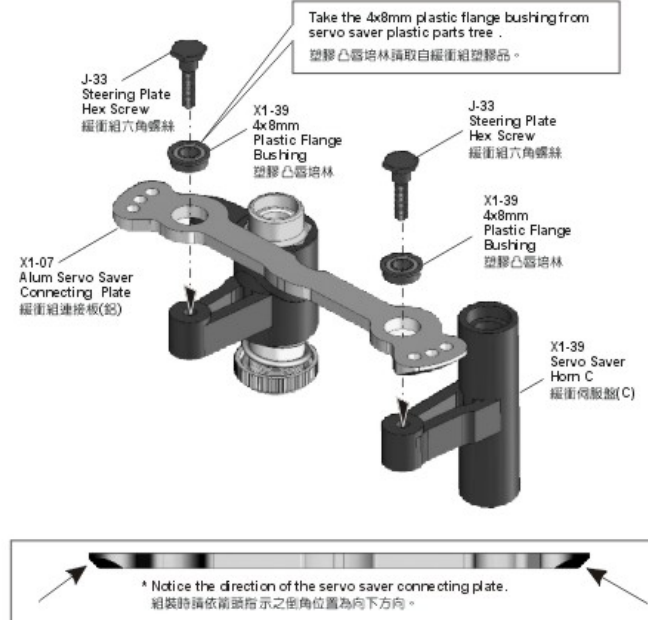


### 14 ASSEMBLY OF THE SERVO SAVER 緩衝組組合

- Step 1**
- X1-39 4x8mm Plastic Flange Bushing 塑膠凸器培林 .....X2
  - J-33 Steering Plate Hex Screw 緩衝組六角螺絲 .....X2
  - J-20 13x16x0.2mm Shim 薄墊片 .....X2



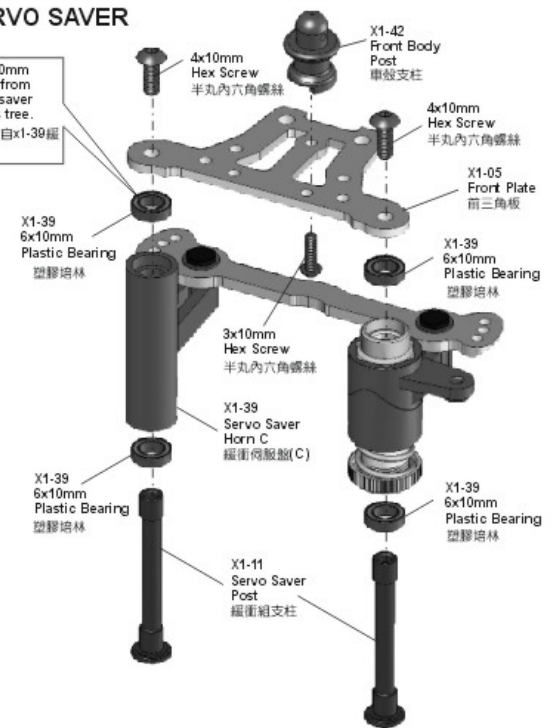
**Step 2**



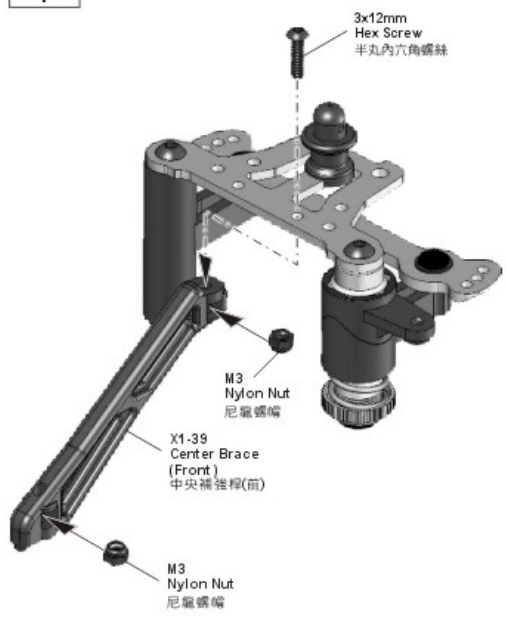
### 15 ASSEMBLY OF THE SERVO SAVER 緩衝組組合

- Step 1**
- M3 Nylon Nut 尼龍螺帽 .....X2
  - 3x10mm Hex Screw 半孔內六角螺絲 .....X1
  - 3x12mm Hex Screw 半孔內六角螺絲 .....X1
  - 4x10mm Hex Screw 半孔內六角螺絲 .....X2
  - X1-39 6x10mm Plastic Bearing 塑膠培林 .....X2

Take the 6x10mm Ball Bearing from X1-39 servo saver plastic parts tree.  
塑膠培林請取自x1-39緩衝組塑膠品。



**Step 2**



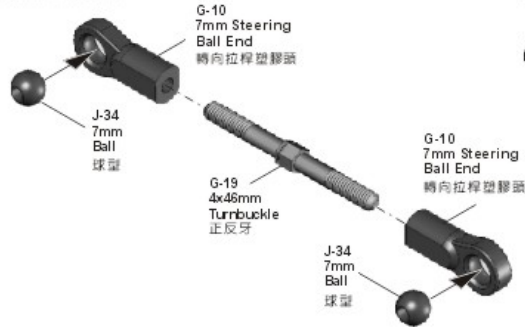


## 16 ASSEMBLY OF THE STEERING TIE-ROD 轉向拉桿組合

Assembly for both right and left side.  
請組合左 / 右兩側

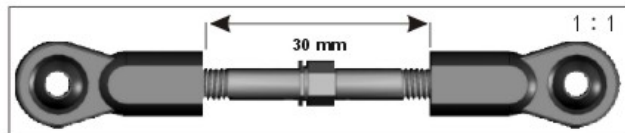
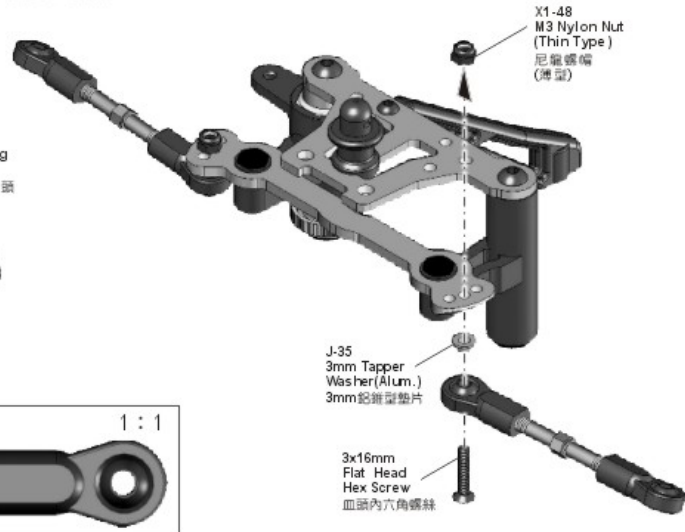
### Step 1

Makes two steering rods for left and right hand-side.  
請裝備2支轉向拉桿。



### Step 2

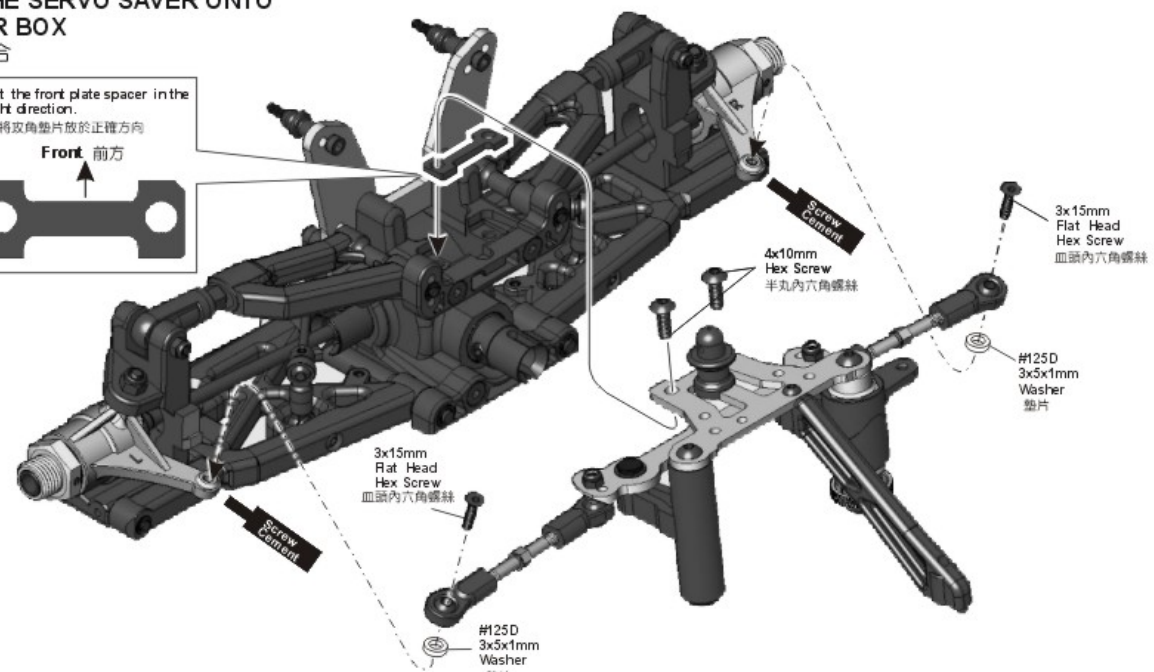
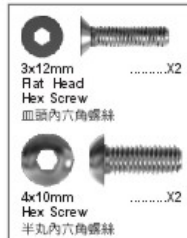
Assembly for both right and left side.  
請組合左 / 右兩側



## 17 ASSEMBLY OF THE SERVO SAVER ONTO THE FRONT GEAR BOX 緩衝組及前齒輪箱組合

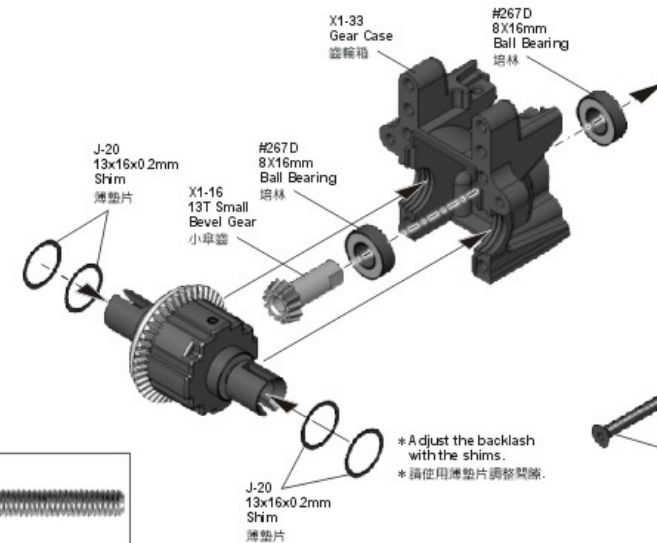
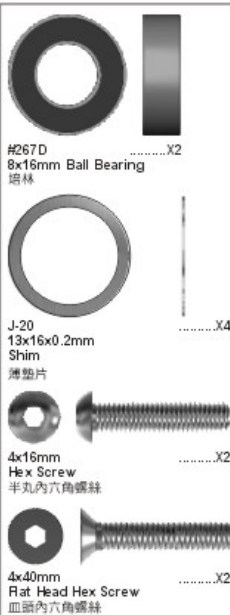
Put the front plate spacer in the right direction.  
請將六角墊片放於正確方向

Front 前方



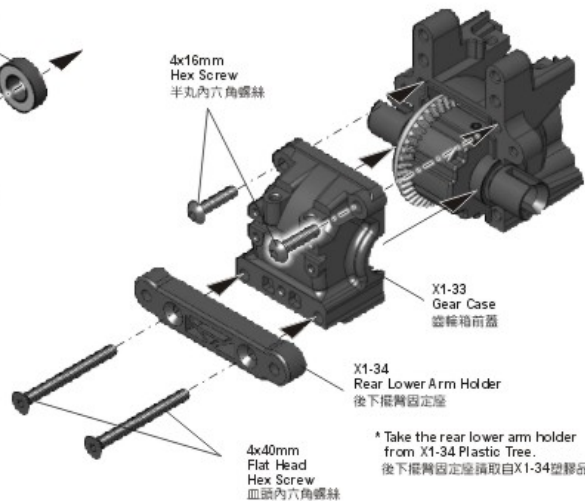
## 18 ASSEMBLY OF THE REAR GEAR CASE 後齒輪箱組合

### Step 1



\* Adjust the backlash with the shims.  
\* 請使用薄墊片調整咬合。

### Step 2

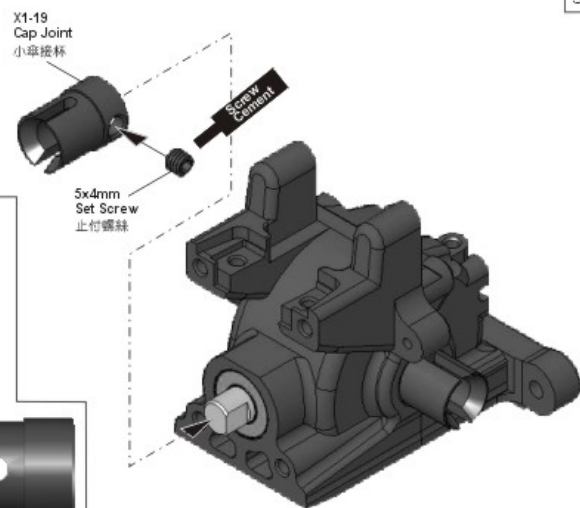


\* Take the rear lower arm holder from X1-34 Plastic Tree.  
後下擺臂固定座請取自X1-34塑膠品。

## 19 ASSEMBLY OF THE REAR GEAR CASE

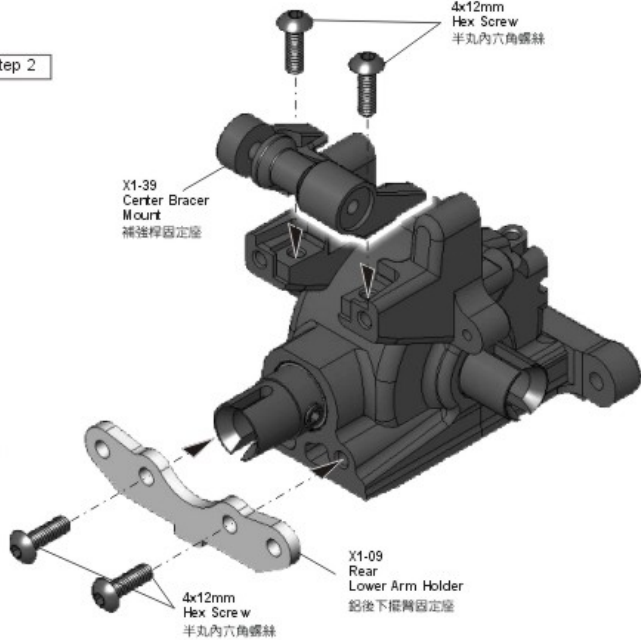
後齒輪箱組合

Step 1



- .....X1  
5x4mm Set Screw  
止付螺絲
- .....X4  
4x12mm Hex Screw  
半丸內六角螺絲
- .....X1  
X1-19 Cap Joint  
小傘接杯

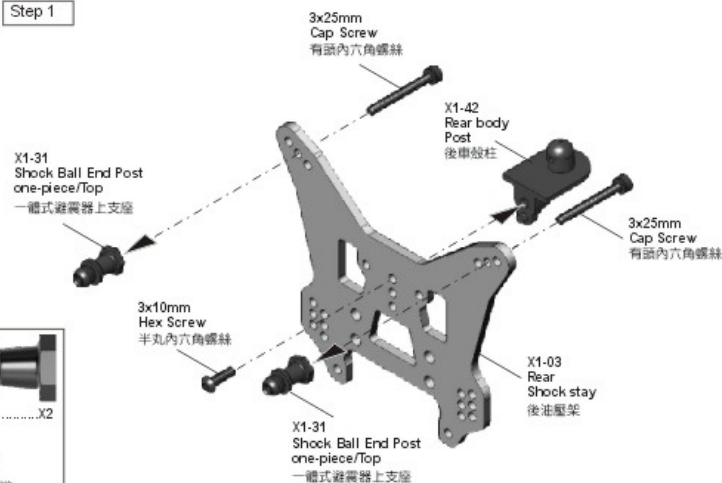
Step 2



## 20 ASSEMBLY OF THE REAR SHOCK STAY

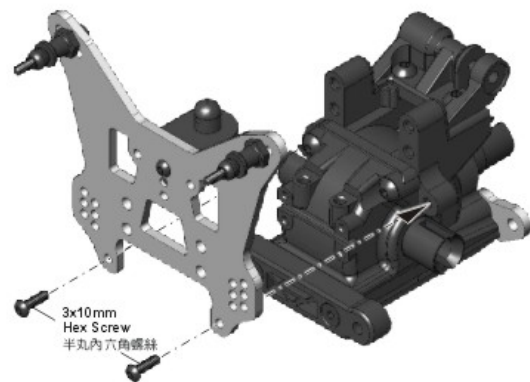
後油壓架組合

Step 1



- .....X2  
X1-31 Shock Ball End Post  
一體式避震器上支座
- .....X3  
3x10mm Hex Screw  
半丸內六角螺絲
- .....X2  
3x25mm Cap Screw  
有頭內六角螺絲

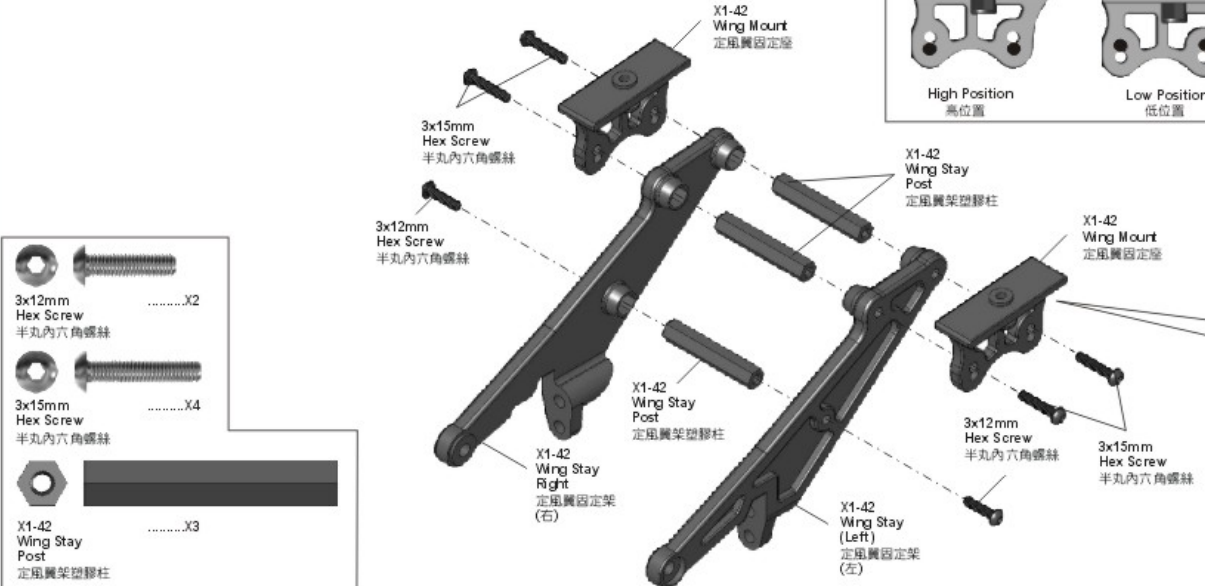
Step 2



## 21 ASSEMBLY OF THE WING STAY

後定風翼架組合

\* The install angel of the wing mount can becomes bigger or higher.  
定風翼角度可以裝配位置不同而會有角度及高低變化。



- .....X2  
3x12mm Hex Screw  
半丸內六角螺絲
- .....X4  
3x15mm Hex Screw  
半丸內六角螺絲
- .....X3  
X1-42 Wing Stay Post  
定風翼架支撐柱

Makes two wing mounts in the same position.  
裝配兩邊定風翼固定為同方向。

Long 長  
Short 短






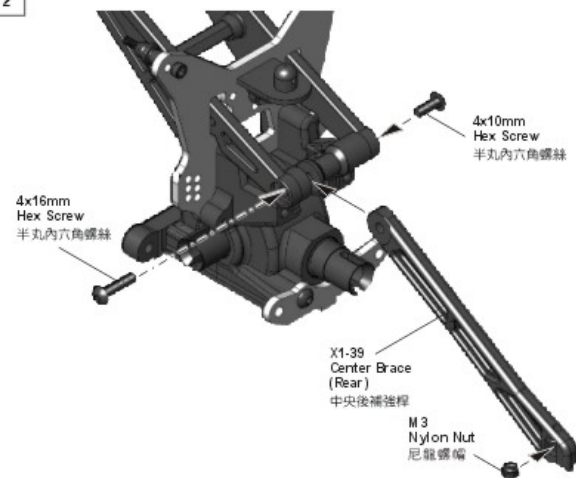
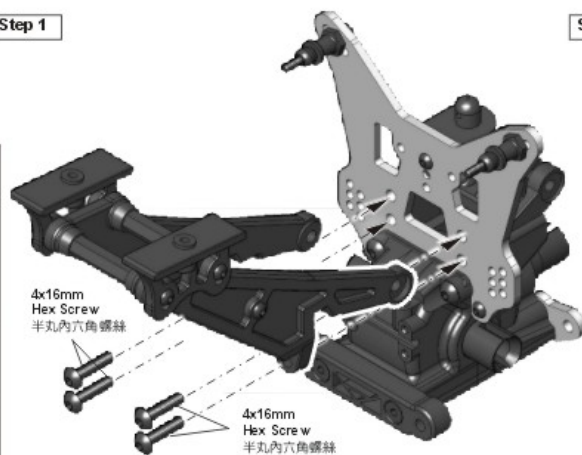
## 22 ASSEMBLY OF THE WING STAY

後定風翼架組合

Step 1

Step 2

-  M3 Nylon Nut  
尼龍螺帽 .....X1
-  4x10mm Hex Screw  
半孔內六角螺絲 .....X1
-  4x16mm Hex Screw  
半孔內六角螺絲 .....X5



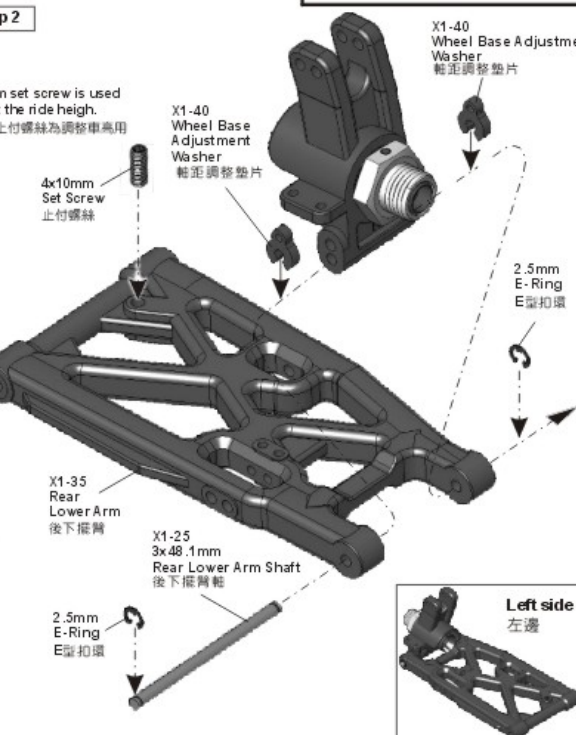
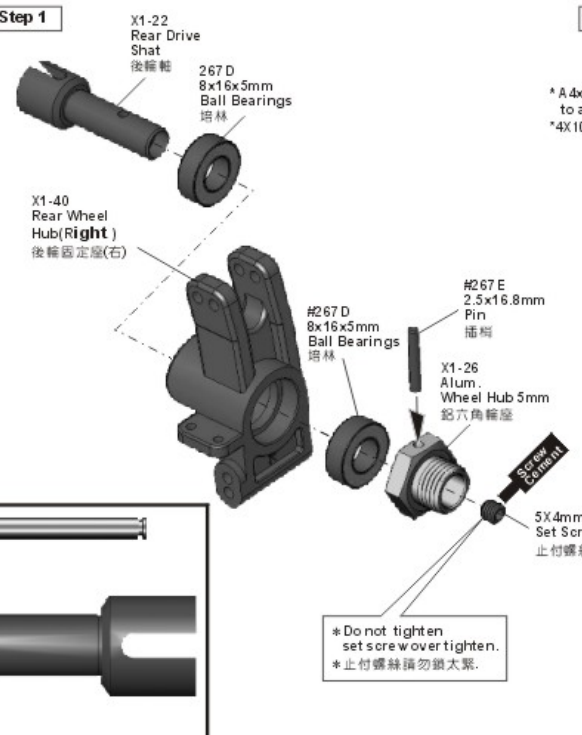
## 23 ASSEMBLY OF THE REAR WHEEL HUBS

後輪座組合

Step 1

Step 2

-  2.5mm E-Ring  
E型扣環 .....X4
-  5x4mm Set Screw  
止付螺絲 .....X2
-  4x10mm Set Screw  
止付螺絲 .....X2
-  #267 E 2.5x16.8mm Pin  
插柄 .....X2
-  #267 D 8x16mm Ball Bearing  
培林 .....X2
-  X1-25 3x48.1mm Lower Arm  
後下擺臂 .....X2
-  X1-22 Rear Drive Shaft  
後輪軸 .....X2



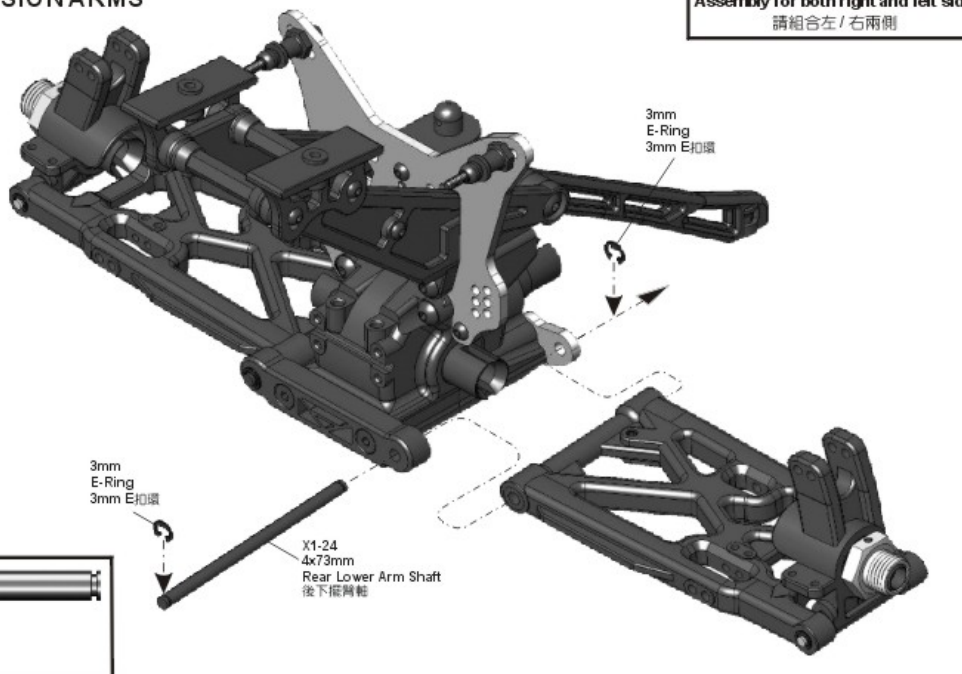
## 24 ASSEMBLY OF THE REAR SUSPENSION ARMS

後懸吊系統組合

Assembly for both right and left side.

請組合左 / 右兩側

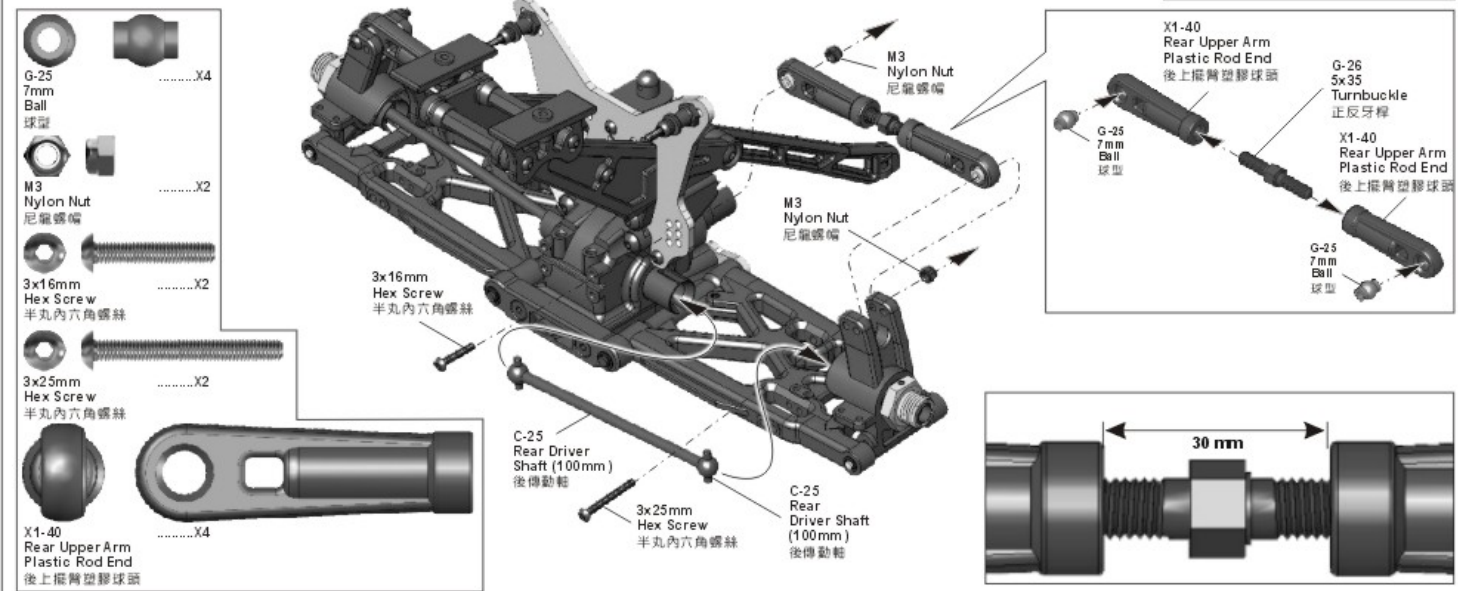
-  3mm E-Ring  
3mm E型扣環 .....X4
-  X1-24 4x73mm Rear Lower Arm Shaft  
後下擺臂軸 .....X2



## 25 ASSEMBLY OF THE REAR SUSPENSION ARMS

後懸吊系統組合

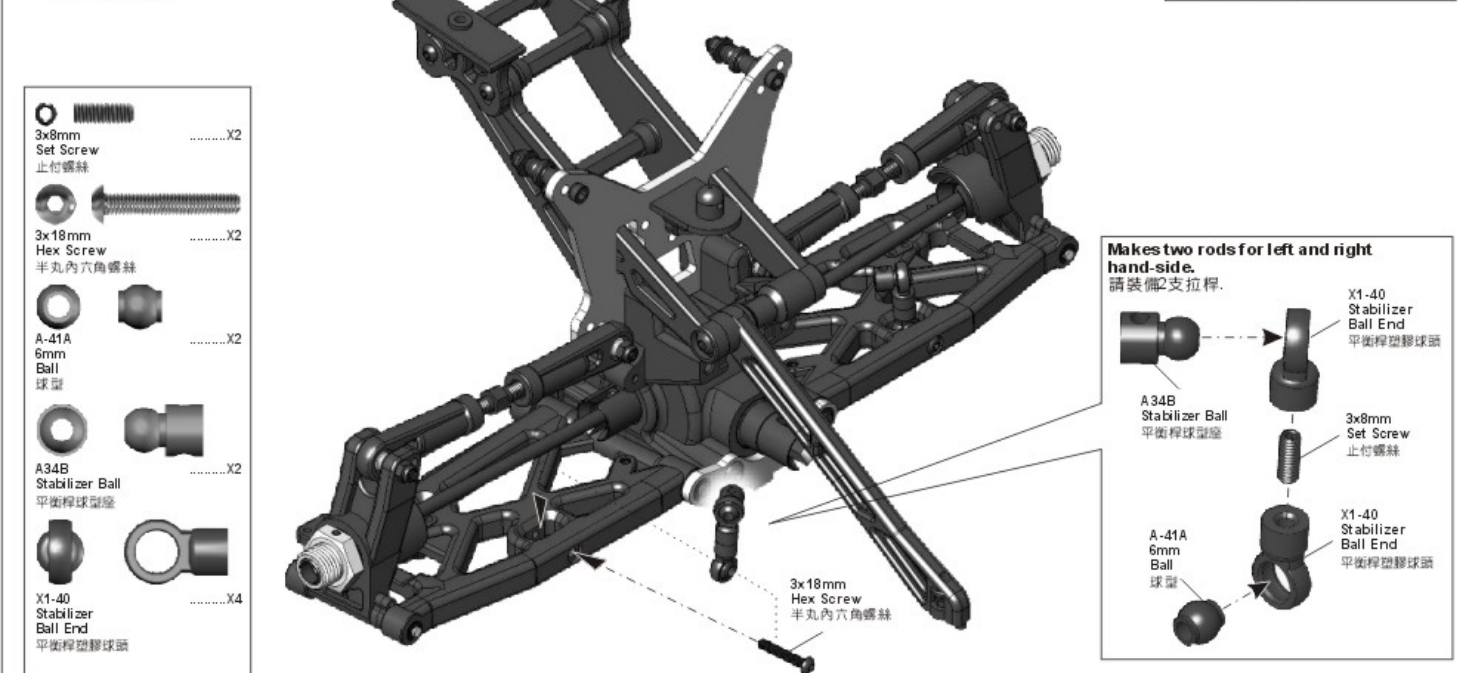
Assembly for both right and left side.  
請組合左 / 右兩側



## 26 ASSEMBLY OF THE REAR STABILIZER

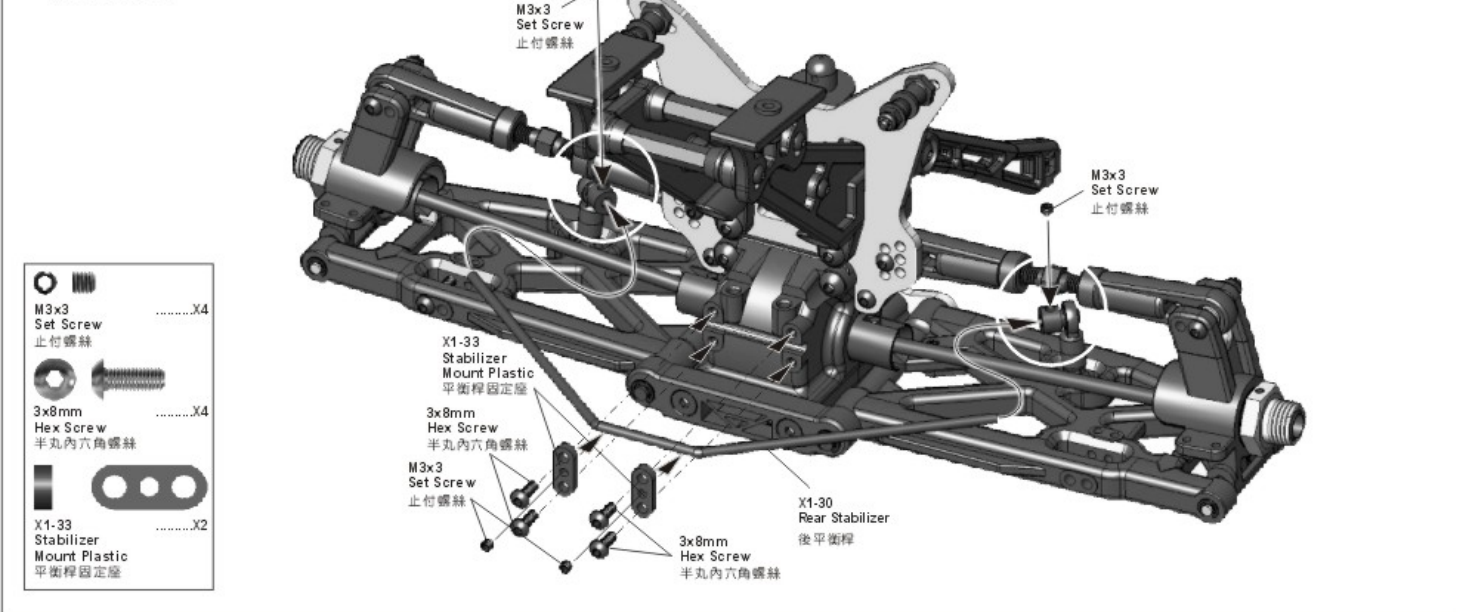
後平衡桿組合

Assembly for both right and left side.  
請組合左 / 右兩側



## 27 ASSEMBLY OF THE REAR STABILIZER

後平衡桿組合





## 28 ASSEMBLY OF THE BRAKE AND CENTER DIFF. MOUNT

剎車片與中差座組合

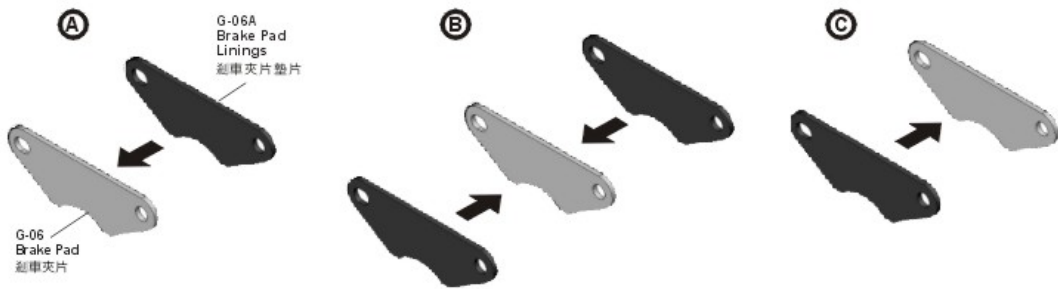
### Step 1

Make brake pads for each side.  
請裝配三種不同的剎車壓夾片組

Remove the double-side tape before assembly.  
組合前請先撕去雙面膠帶。

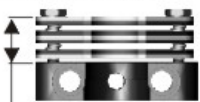


G-06A  
Brake Pad  
Linings  
剎車夾片墊片



### Step 2

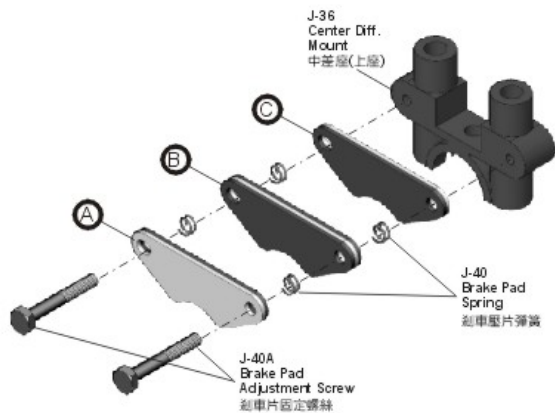
Assembly the brake disc holder in the direction shown.  
請將剎車片放入正確方向。



Approx. 7mm  
約7mm



J-40A  
M3x20L Brake Pad Adjustment Screw  
M3x20L 剎車片固定螺絲

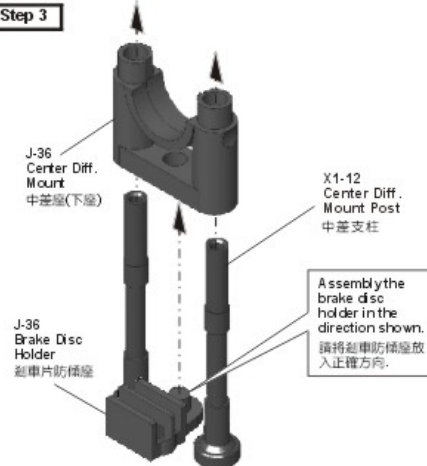


J-36  
Center Diff.  
Mount  
中差座(上座)

J-40  
Brake Pad  
Spring  
剎車壓片彈簧

J-40A  
Brake Pad  
Adjustment Screw  
剎車片固定螺絲

### Step 3



J-36  
Center Diff.  
Mount  
中差座(下座)

X1-12  
Center Diff.  
Mount Post  
中差支柱

Assembly the brake disc holder in the direction shown.  
請將剎車防塵座放入正確方向。

J-36  
Brake Disc  
Holder  
剎車片防塵座

## 29 ASSEMBLY OF THE CENTER DIFF. INTO BRAKE DISK

中差座與剎車片組合



J-38  
Brake Disk  
剎車片

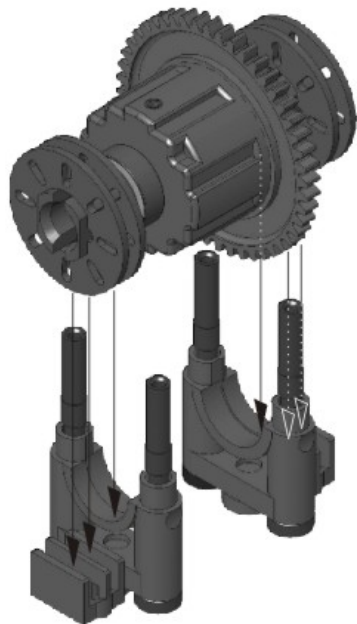
J-38  
Brake Disk  
剎車片

Center Diff.  
Assemble  
中央差速器組

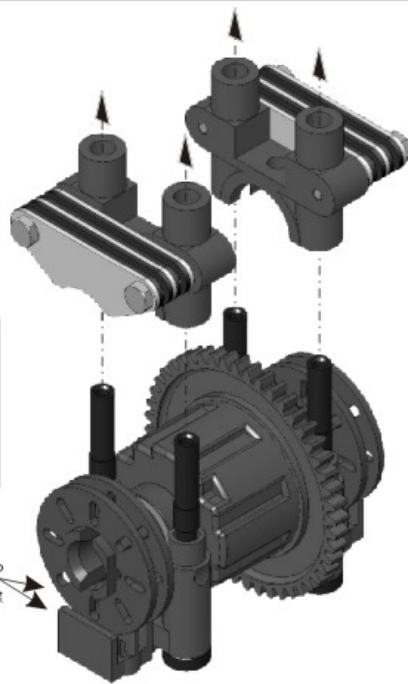
## 30 ASSEMBLY OF THE CENTER DIFF. INTO CENTER DIFF. MOUNT

中央差速器組與中差座組合

### Step 1



### Step 2



\* Place the brake disc between the brake disc pads.  
\*將剎車片放於剎車碟中。



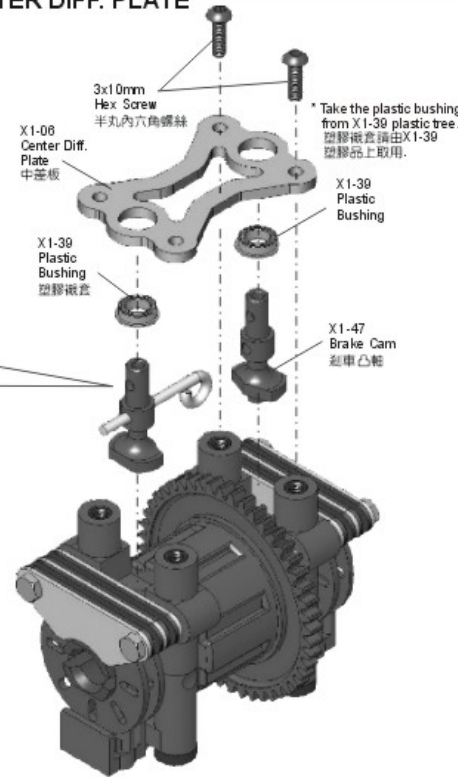
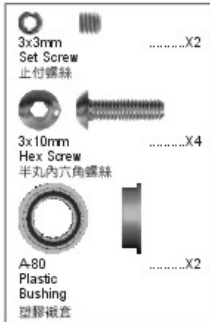
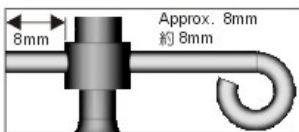
Brake disc  
剎車碟

\* Put the brake disc into brake disc holder.  
\*剎車碟片分別放於剎車碟固定座溝槽內。

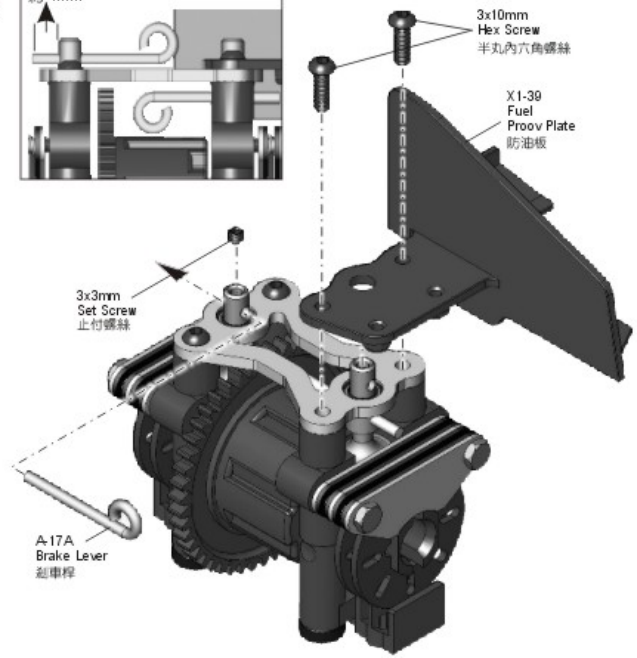
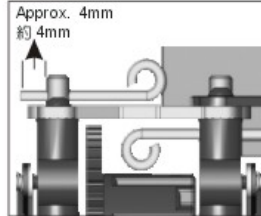
### 31 ASSEMBLY OF THE CENTER DIFF. PLATE

中差板與防油板組合

Step 1



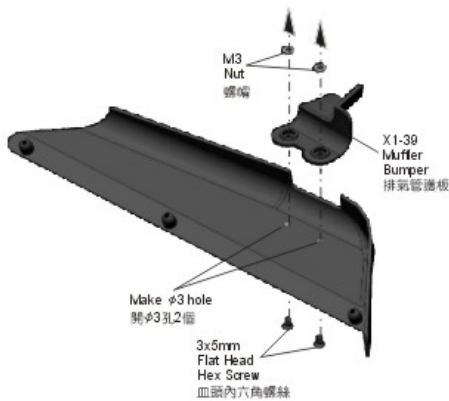
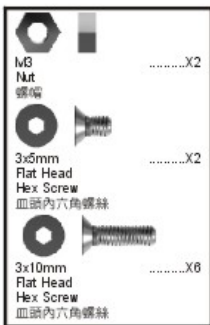
Step 2



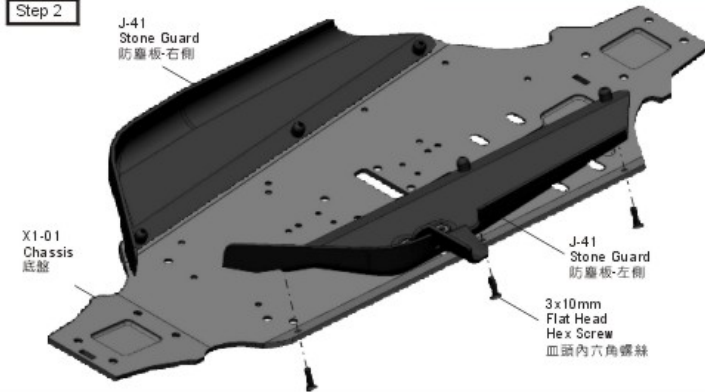
### 32 ASSEMBLY OF THE STONE GUARD

防塵板組合

Step 1



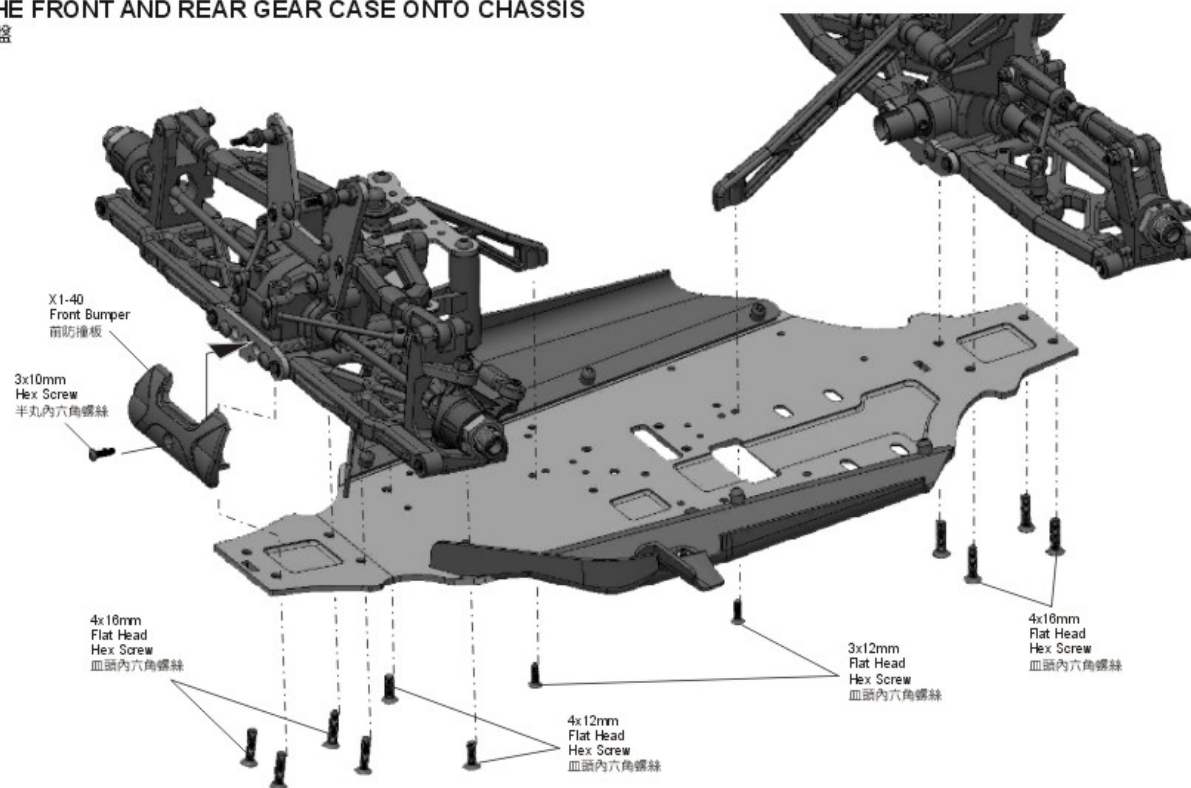
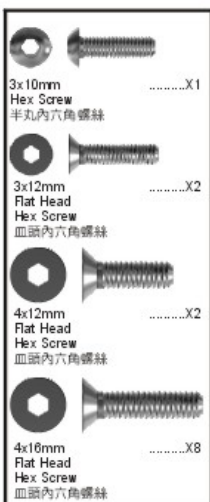
Step 2



Assembly for both right and left side.  
請組合左 / 右兩側

### 33 ASSEMBLY OF THE FRONT AND REAR GEAR CASE ONTO CHASSIS

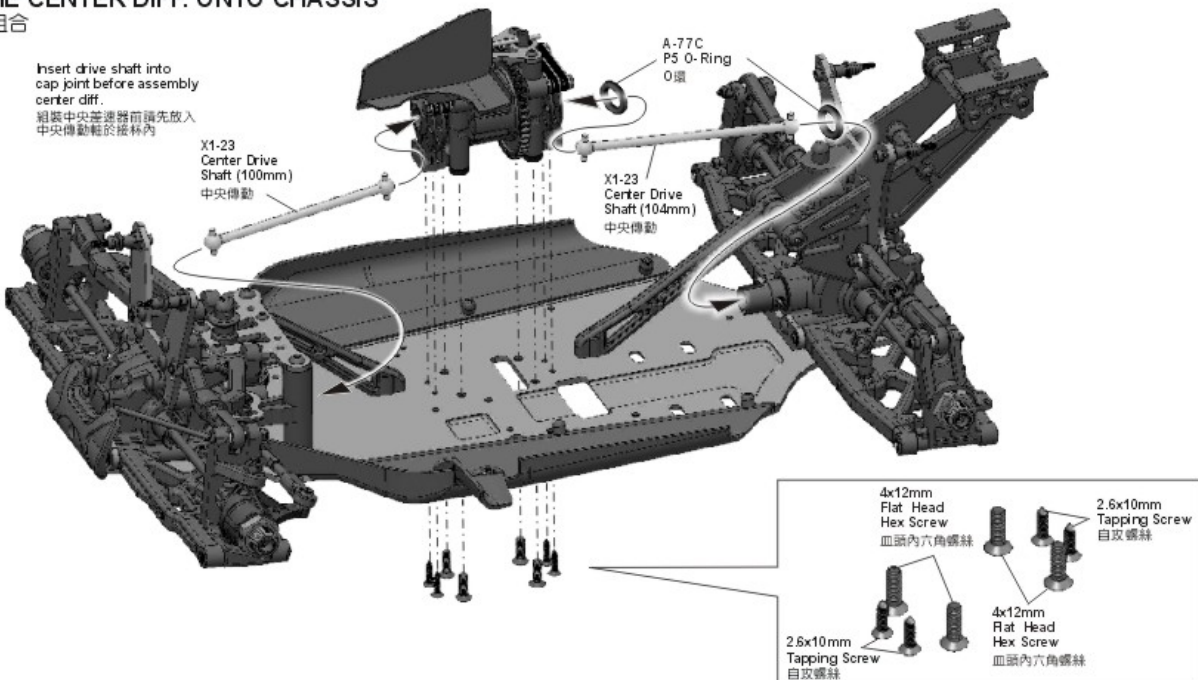
組合前後齒輪箱至底盤





### 34 ASSEMBLY OF THE CENTER DIFF. ONTO CHASSIS 中央差速器組與底盤組合

Insert drive shaft into cap joint before assembly center diff.  
組裝中央差速器前請先放入中央傳動軸於接柱內



- A-77C P5 O-Ring 0環 .....X2
- 4x12mm Flat Head Hex Screw 皿頭內六角螺絲 .....X4
- 2.6x10mm Tapping Screw 自攻螺絲 .....X4

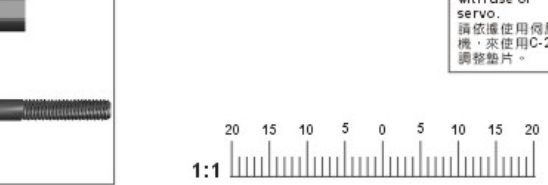
- 4x12mm Flat Head Hex Screw 皿頭內六角螺絲
- 2.6x10mm Tapping Screw 自攻螺絲
- 2.6x10mm Tapping Screw 自攻螺絲
- 4x12mm Flat Head Hex Screw 皿頭內六角螺絲

### 35 ASSEMBLY OF THE STEERING SERVO AND STEERING ROD 轉向伺服機與轉向拉桿組合

**Step 1**

Put the protection rubber onto your servo.  
將伺服機防震橡皮墊放入伺服機。

- 3X12mm Hex Screw 半丸內六角螺絲 .....X1
- 3X16mm Hex Screw 半丸內六角螺絲 .....X4
- A-41A 6mm Ball 球型 .....X1
- E-37 6mm Ball and Socket 球型 .....X1
- A-40A Plastic Ball End 轉向桿塑膠球頭 .....X2
- L-26 3x36mm Turnbuckle 轉向拉桿 .....X1



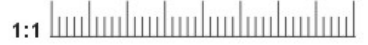
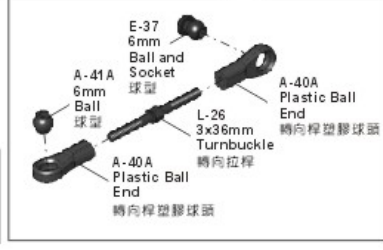
**Step 2**

Use the screw provided with your servo.  
請取用自伺服機所付螺絲。



Adjust C-27 Servo Washer in accordance with use of servo.  
請依據使用伺服機，來使用C-27調整墊片。

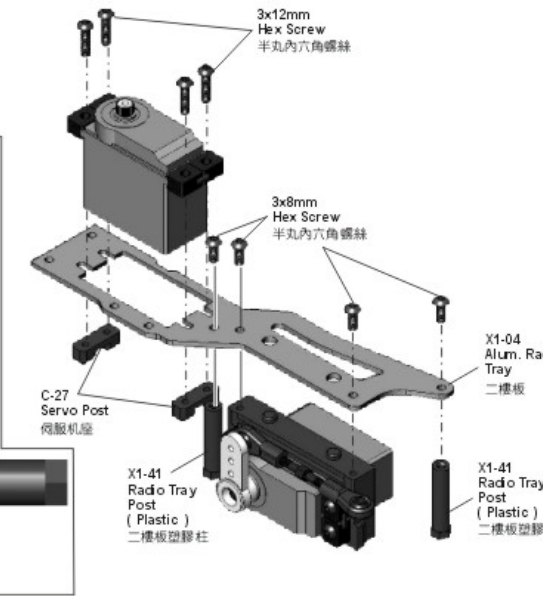
	A
Futaba	1mm
Sanwa	2mm
KO	1mm
JR	.....



### 36 ASSEMBLY OF THE RADIO TRAY 二樓板組合

**Step 1**

- 2X8mm Hex Screw 半丸十字螺絲 .....X4
- 2X8mm Hex Screw 半丸內六角螺絲 .....X4
- 3X12mm Hex Screw 半丸內六角螺絲 .....X4
- X1-41 Radio Tray Post (Plastic) 二樓板塑膠柱 .....X2

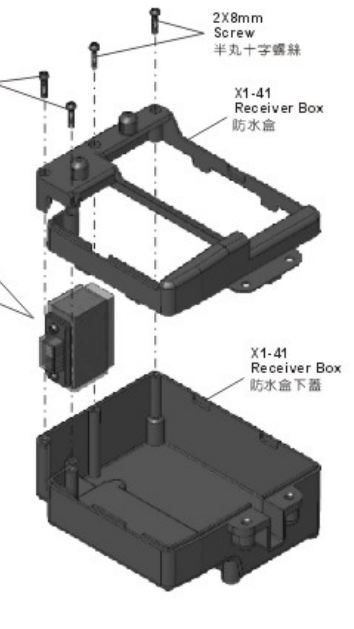


**Step 2**



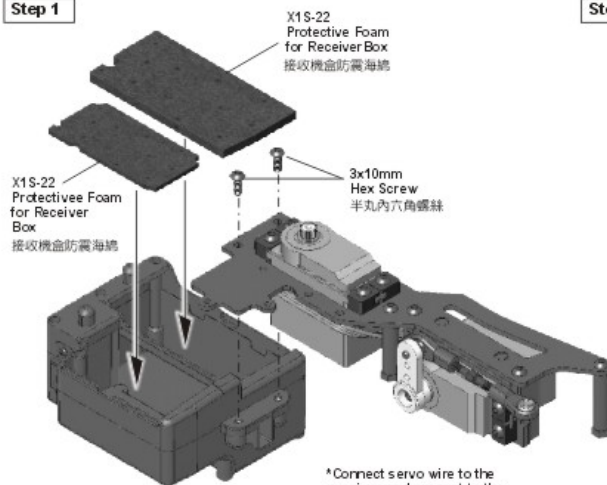
Use the screw provide with your switch  
使用開關所附螺絲

Connect the switch wire to receiver.  
組裝時請將開關電源線接至接收機。

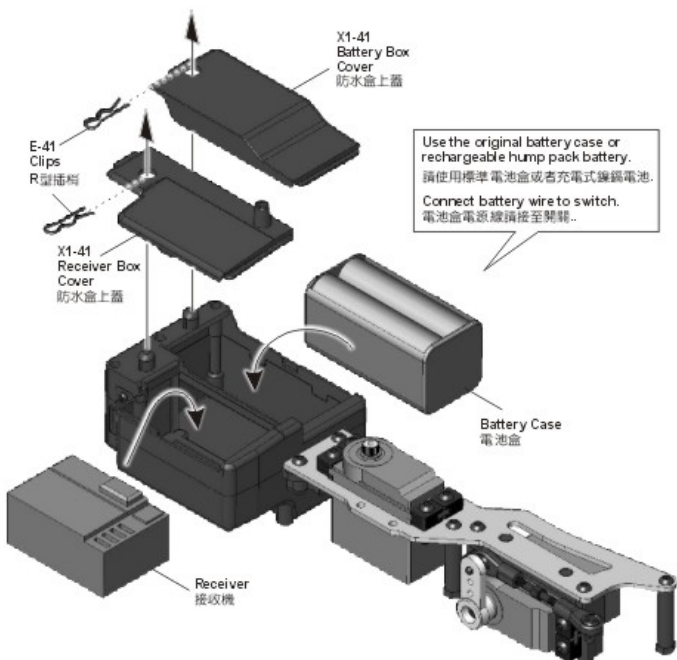


### 37 ASSEMBLY OF THE RADIO TRAY AND RECEIVER BOX 二樓板與防水盒組合

Step 1



Step 2

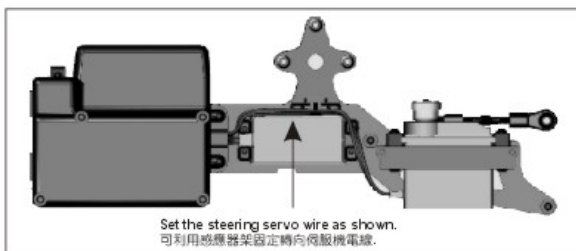
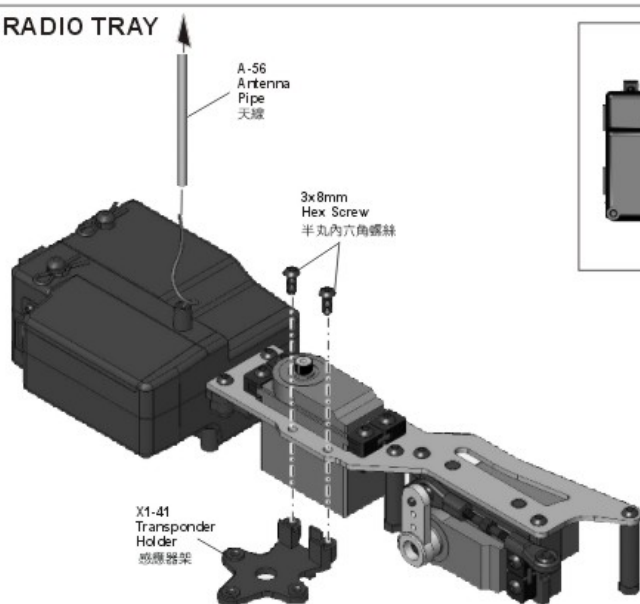


Use the original battery case or rechargeable hump pack battery.  
請使用標準電池盒或者充電式錘錘電池。  
Connect battery wire to switch.  
電池盒電線請接至開關。

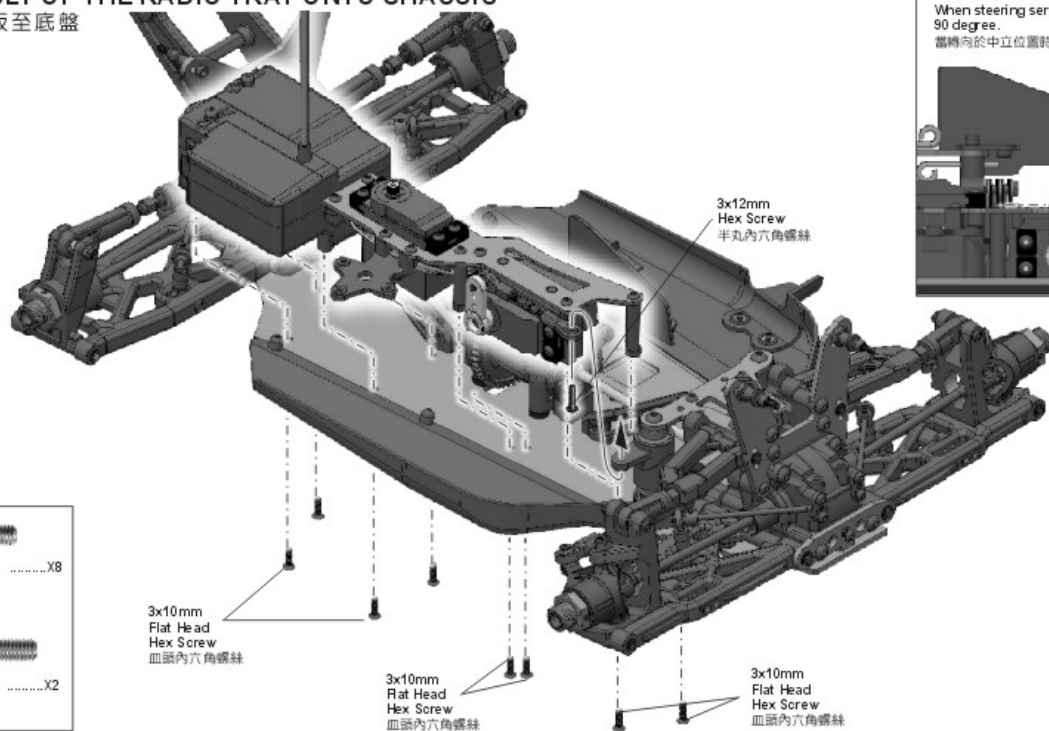
\*Connect servo wire to the receiver and connect to the battery's switch.  
Feed the antenna wire up the antenna mount.  
伺服機接線放入防水盒內並接上接收機。  
將接收機天線穿上天線座。



### 38 ASSEMBLY OF THE RADIO TRAY 二樓板組合



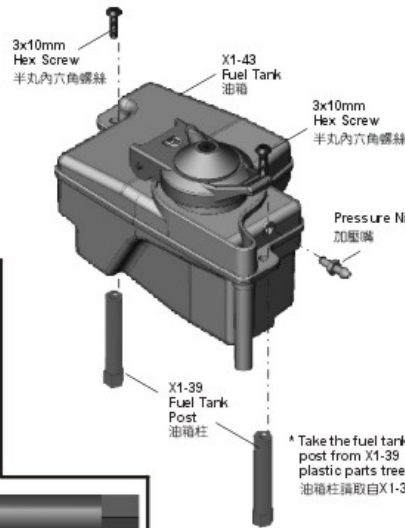
### 39 ASSEMBLY OF THE RADIO TRAY ONTO CHASSIS 組合二樓板至底盤





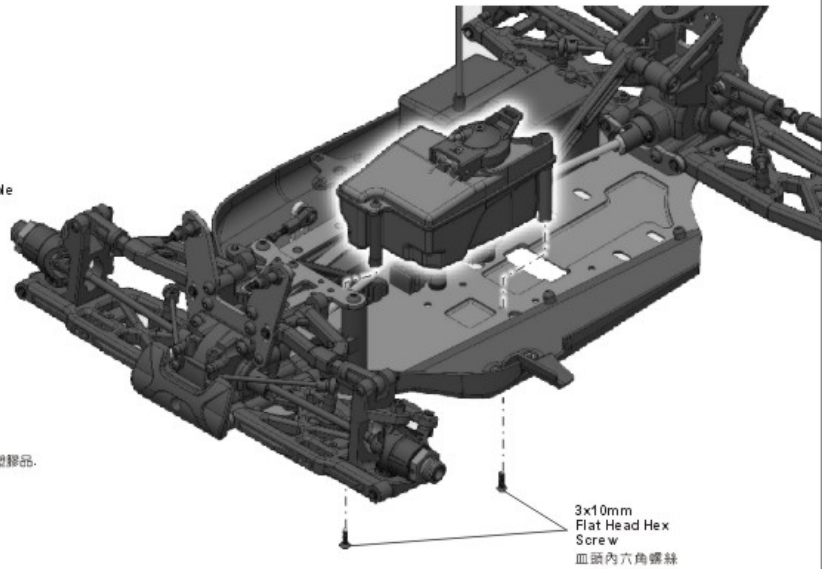
## 40 ASSEMBLY OF THE FUEL TANK 油箱組合

Step 1



- 3x10mm Flat Head Hex Screw .....X2  
皿頭內六角螺絲
- 3x10mm Hex Screw .....X2  
半孔內六角螺絲
- X1-39 Fuel Tank Post .....X2  
油箱柱

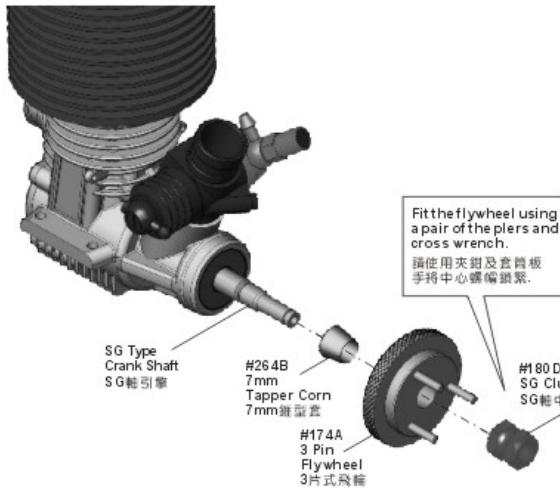
Step 2



\* Take the fuel tank post from X1-39 plastic parts tree.  
油箱柱請取自X1-39塑膠品。

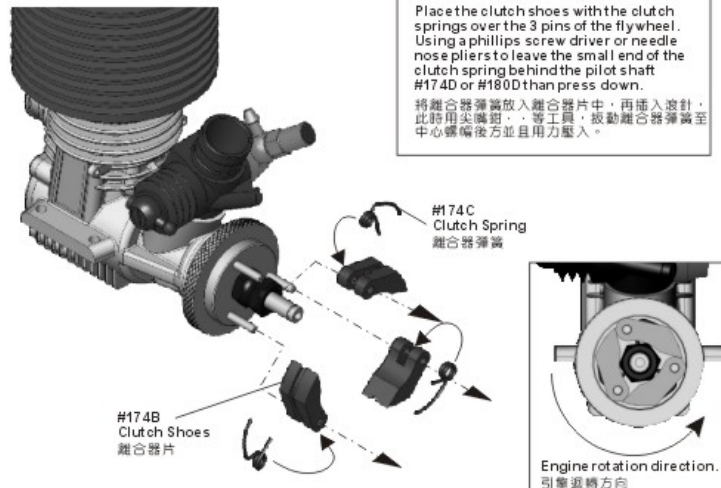
## 41 ASSEMBLY OF THE CLUTCH 組合離合器

Step 1



Fit the flywheel using a pair of the pliers and cross wrench.  
請使用夾鉗及查骨板手持中心螺帽鎖緊。

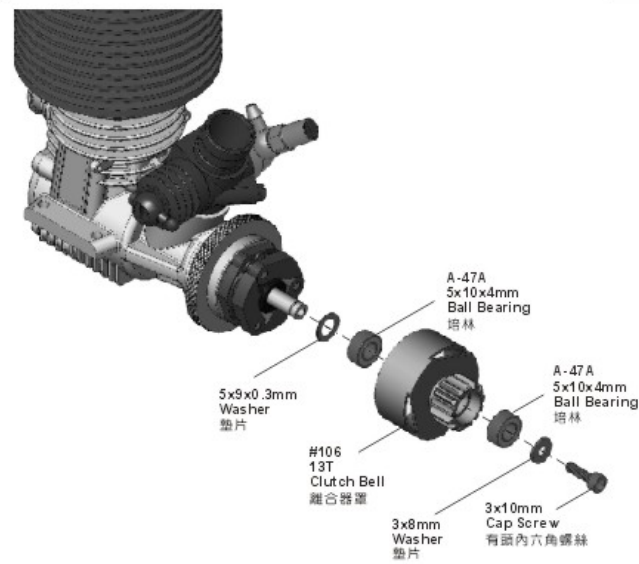
Step 2



Place the clutch shoes with the clutch springs over the 3 pins of the flywheel. Using a phillips screw driver or needle nose pliers to leave the small end of the clutch spring behind the pilot shaft #174D or #180D than press down.  
將離合器彈簧放入離合器片中，再插入滾針。此時用尖嘴鉗、...等工具，撥動離合器彈簧至中心螺帽後方並且用力壓入。

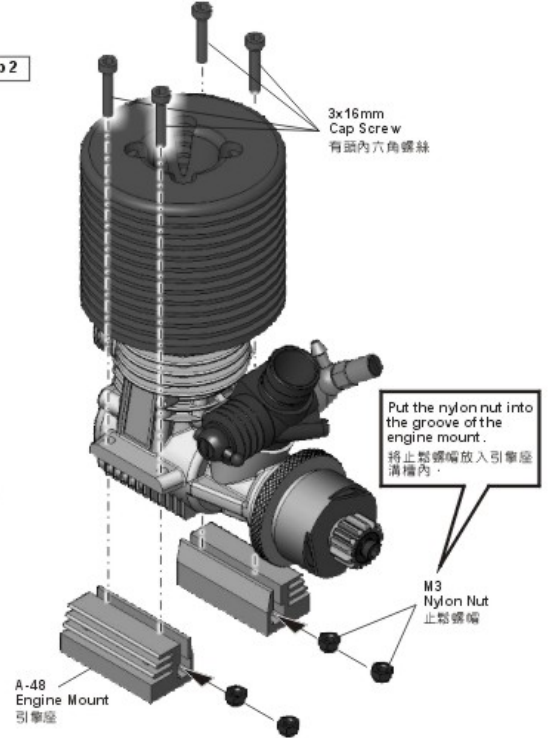
## 42 ASSEMBLY OF THE CLUTCH AND ENGINE MOUNT 組合離合器

Step 1



- M3 Nylon Nut .....X4  
止緊螺帽
- 3x8mm Washer .....X1  
墊片
- 5x9x0.3mm Washer .....X1  
墊片
- A-47A 5x10x4mm Ball Bearing .....X2  
培林
- 3x10mm Cap Screw .....X1  
有頭內六角螺絲
- 3x16mm Cap Screw .....X4  
有頭內六角螺絲

Step 2



Put the nylon nut into the groove of the engine mount.  
將止緊螺帽放入引擎座溝槽內。

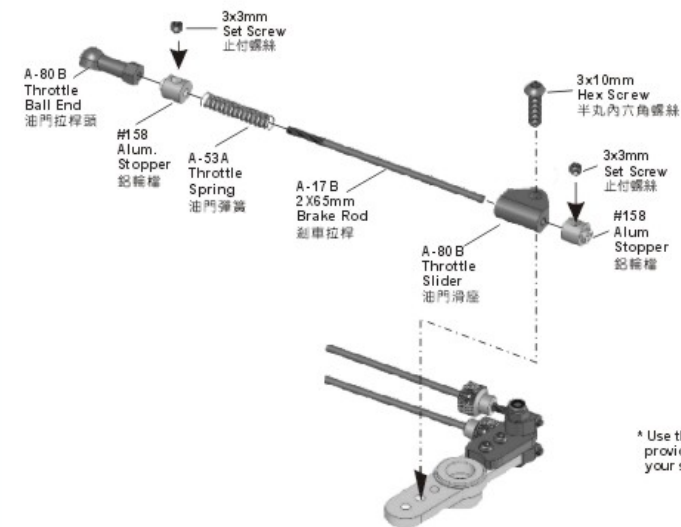




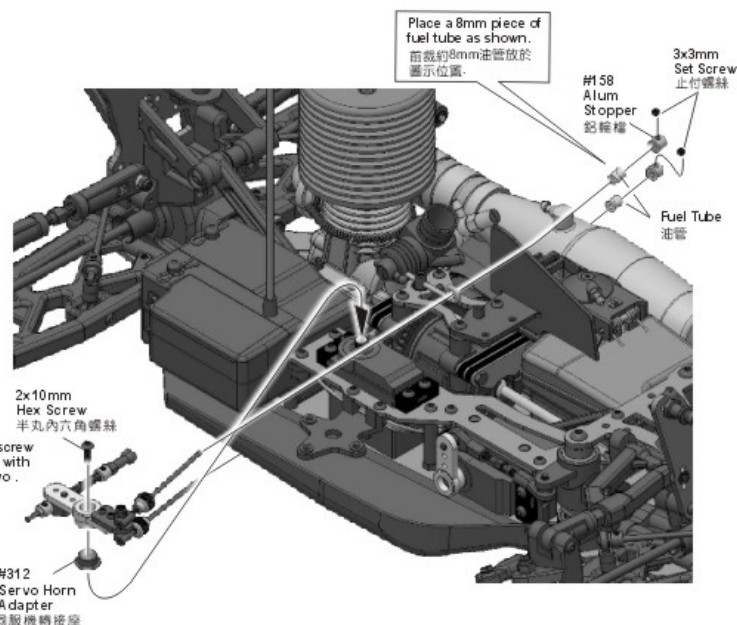
# ASSEMBLY OF THE THROTTLE LINKAGES INTO LEVER(TypeA)

油門伺服盤與煞車調整組組合

Step 1



Step 2

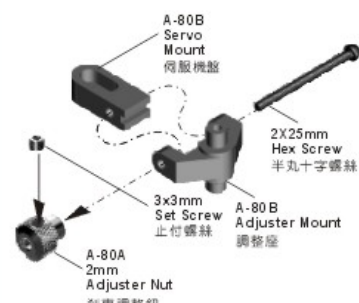


# 46 ASSEMBLY OF THE THROTTLE LINKAGE(Type B)

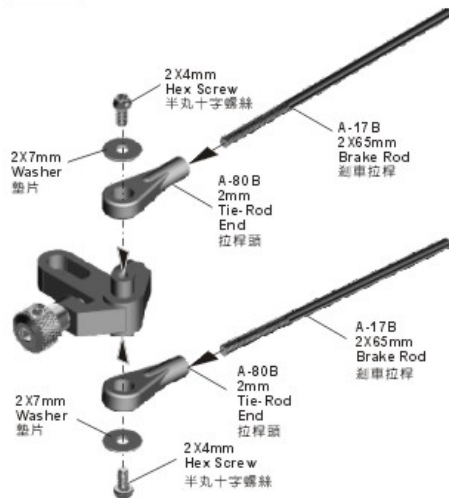
油門伺服盤與剎車調整組 (TypeB)

Type B

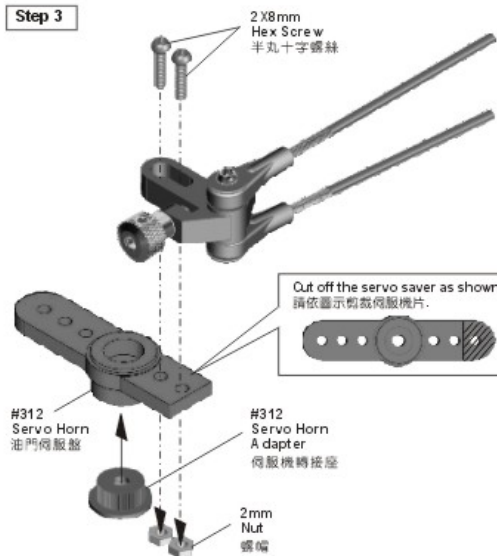
Step 1



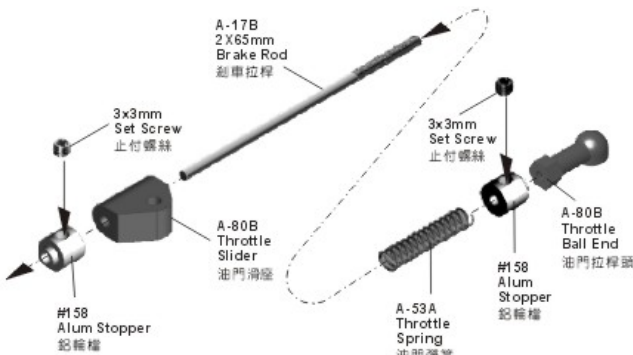
Step 2



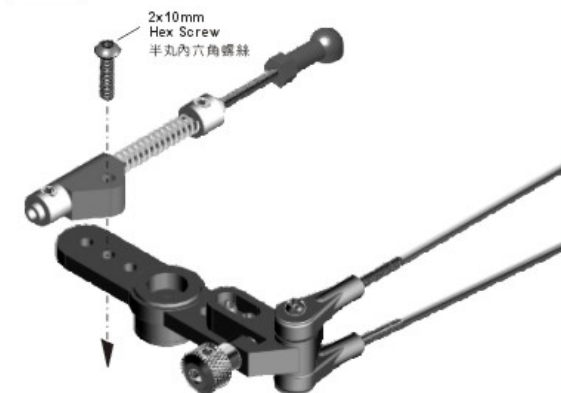
Step 3



Step 4



Step 5



# ASSEMBLY OF THE BRAKE LINKAGE INTO BRAKE LEVER (Type B)

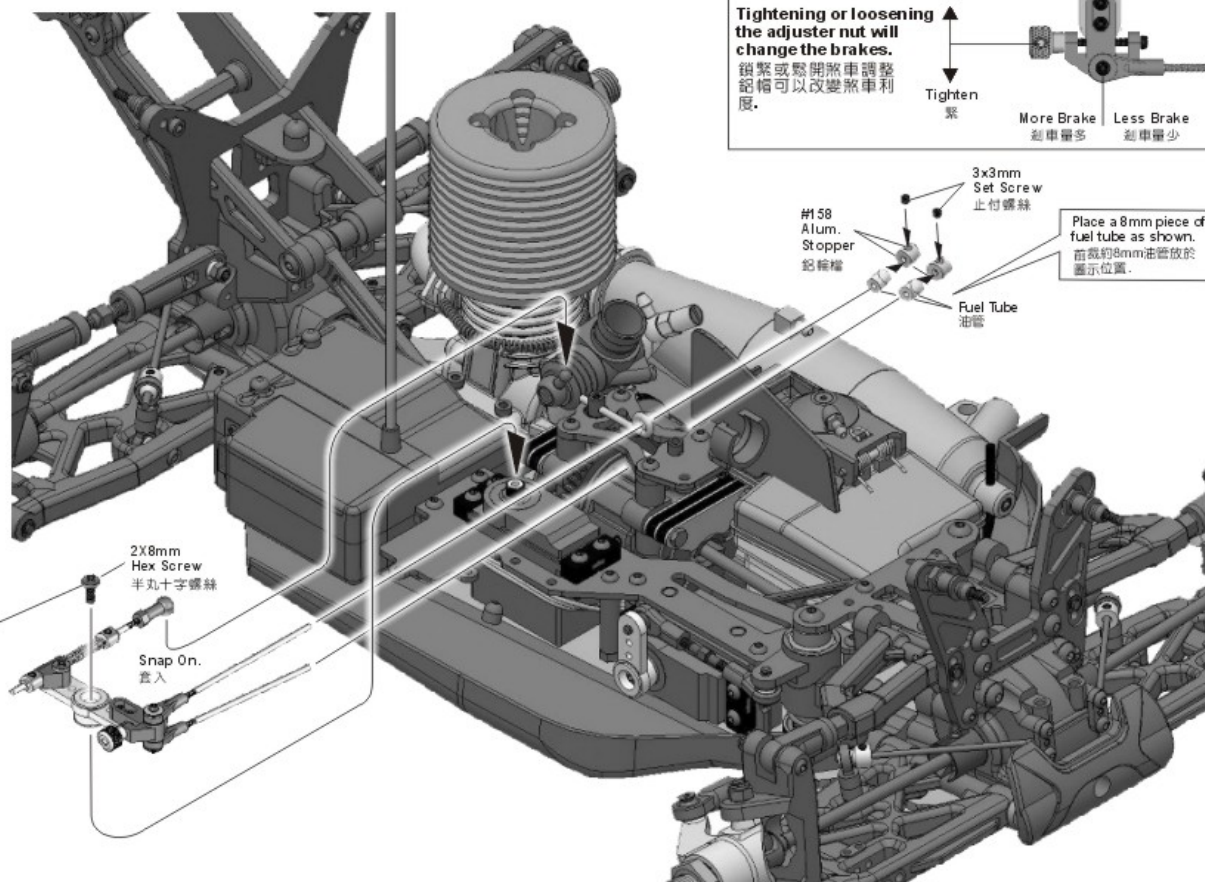
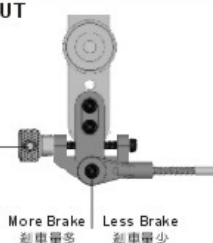
油門伺服盤與煞車調整組組合 (Type B)

## USING BRAKE ADJUSTER NUT 使用剎車調整鋁帽

Tightening or loosening the adjuster nut will change the brakes.  
鎖緊或鬆開煞車調整鋁帽可以改變煞車力度。

Loose  
鬆  
Tighten  
緊

More Brake  
剎車量多  
Less Brake  
剎車量少



\* Use the screw provided with your servo.  
\* 請使用伺服機原來附有的螺絲。

M3x3 Set Screw  
止付螺絲

## 47 ADJUSTING THE ENGINE CONTROL LINKAGES

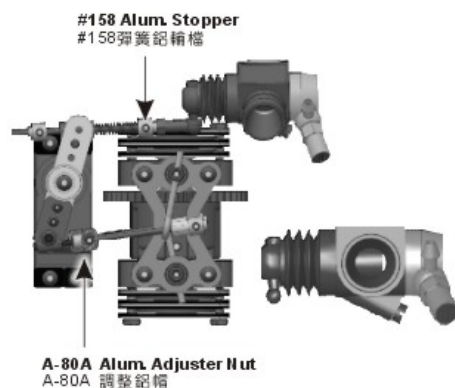
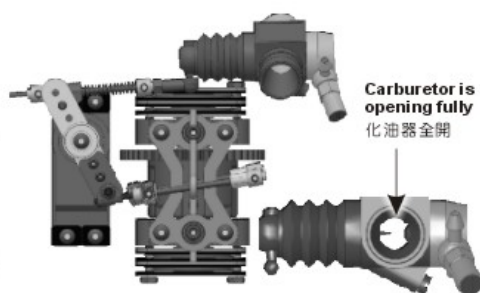
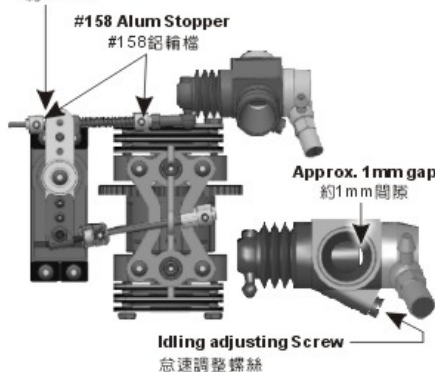
油門 / 剎車拉桿組調整

(Neutral)  
中立點位置

(Throttle High)  
全速油門位置

(Brake)  
剎車位置

Approx. 0.5mm  
約0.5mm



\* Turn on the Transmitter then Receiver and set the Engine Control Servo Trim to the neutral position.

\* Adjust the idling adjusting screw on the Carburetor to be open approx. 1mm gap.

\* Adjust both of the #158 Engine Control and Brake linkage accordingly.

\* Adjust the Engine while it is not running.

\* 開啟遙控器和接收機的電源並且調整伺服機片在中立位置。

\* 調整怠速螺絲使化油器開口約1mm間隙。

\* 調整 #158 鋁輪檔與油門滑座約0.5mm間隙，且油門 / 煞車拉桿在中立位置。

\* 調整引擎怠速中，車子不可行走。

\* Adjust the Servo-Horn mounting position for the Carburetor to be fully open.

\* Change the pivot mounting position on the servo horn in case the Carburetor is not opening fully or if it is opening excessively. Or if available on the Transmitter, adjust the Throttle high end point.

\* 將遙控器油門開啟在全速位置。

\* 如果化油器開啟不足或過度，請改變油門滑座和伺服片的安裝孔位，使化油器開啟至全開位置。若是遙控器有油門行程調整功能，也可使用調整全速油門位置。

\* Adjust #158 so the brakes work smoothly.

\* If the brakes apply too much or not enough, adjust A80A accordingly. Or if available on the Transmitter, adjust the High-End Brake adjustment.

\* Adjust A-80A to Change the front or Rear Brake.

\* 調整彈簧鋁輪檔使剎車動作滑順。

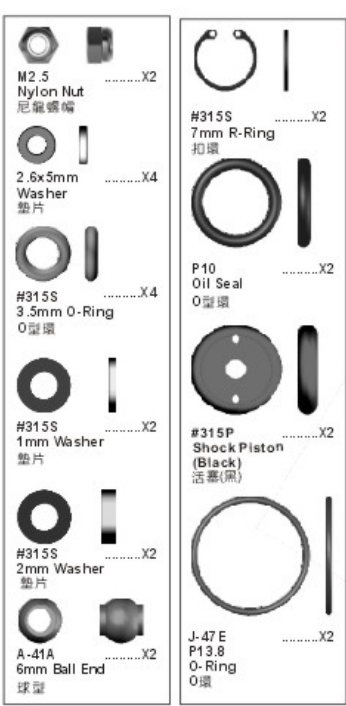
\* 如果剎車不足或過度，請適度調整#158鋁輪檔位置，或是遙控器有剎車行程調整功能，也可使用調整剎車位置。

\* 調整A-80A調整鋁帽，可改變前後剎車力度。

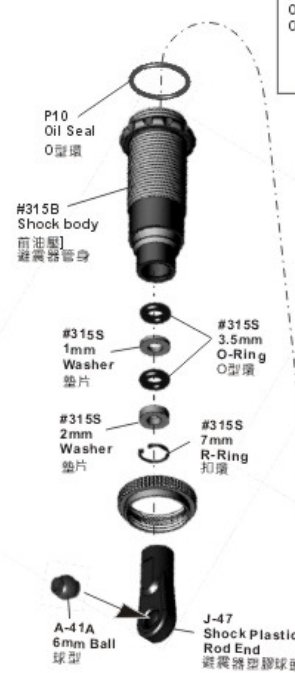


## 48 ASSEMBLY OF THE FRONT SHOCKS

### 前避震器組合

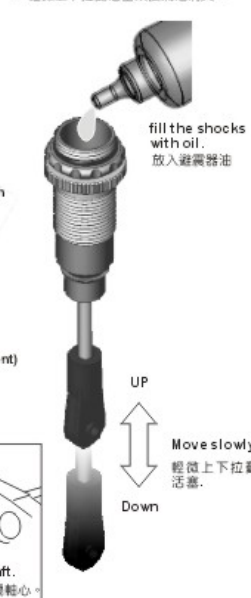


### Step 1

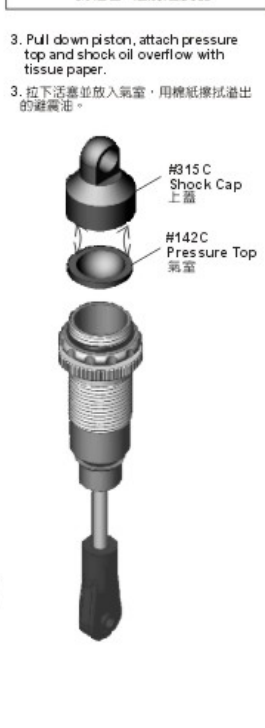


### Step 2

1. Pull down piston and pour oil into shock cylinder.
2. To remove air bubbles by slowly moving piston up and down.

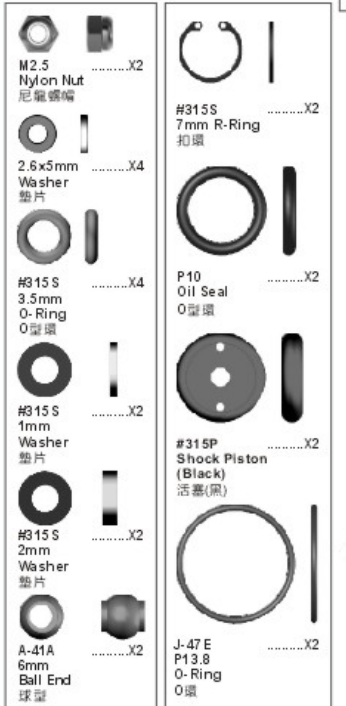


### Builds two shocks for the front.



## 49 ASSEMBLY OF THE REAR SHOCKS

### 後避震器組合



### Step 1



### Step 2

1. Pull down piston and pour oil into shock cylinder.
2. To remove air bubbles by slowly moving piston up and down.

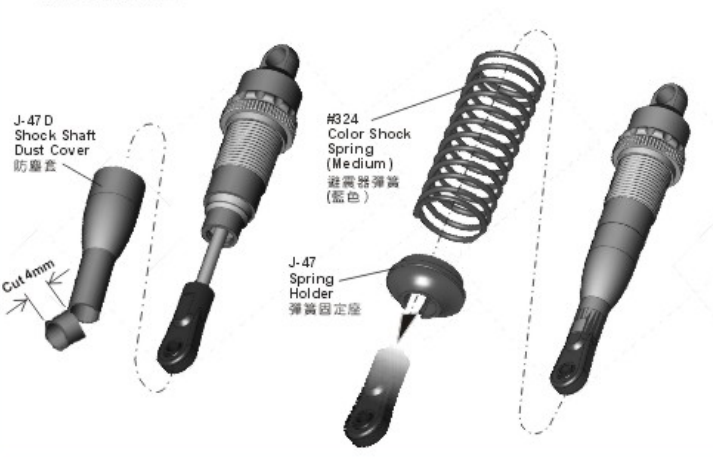


### Builds two shocks for the rear.



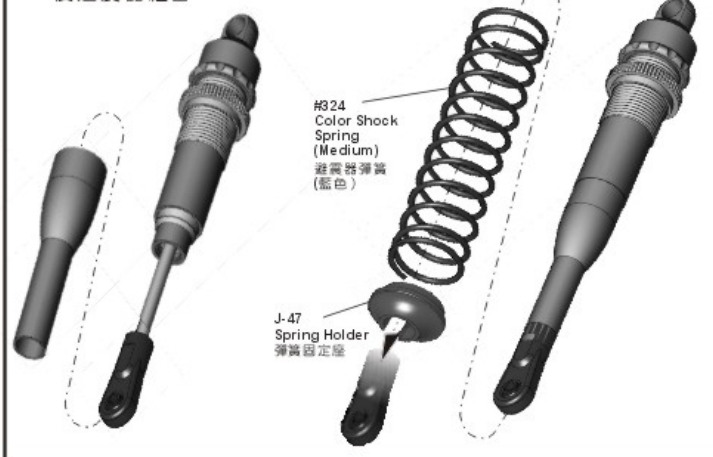
## 50 ASSEMBLY OF THE FRONT SHOCK SPRINGS

### 前避震器組合



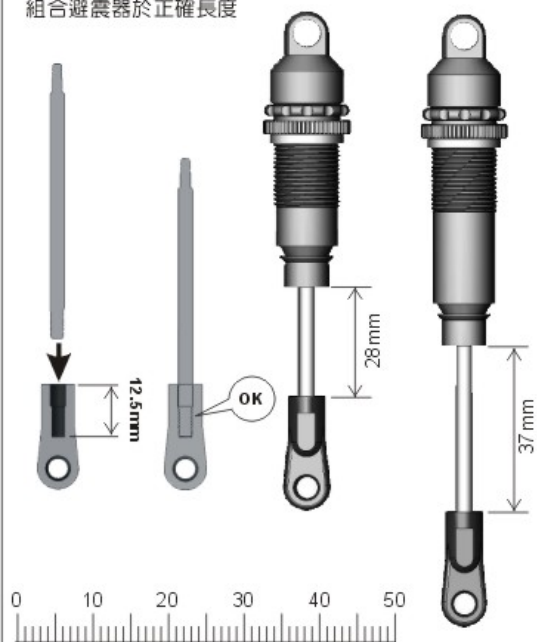
## 51 ASSEMBLY OF THE REAR SHOCK SPRINGS

### 後避震器組合



## CORRECT SHOCK ASSEMBLY

組合避震器於正確長度

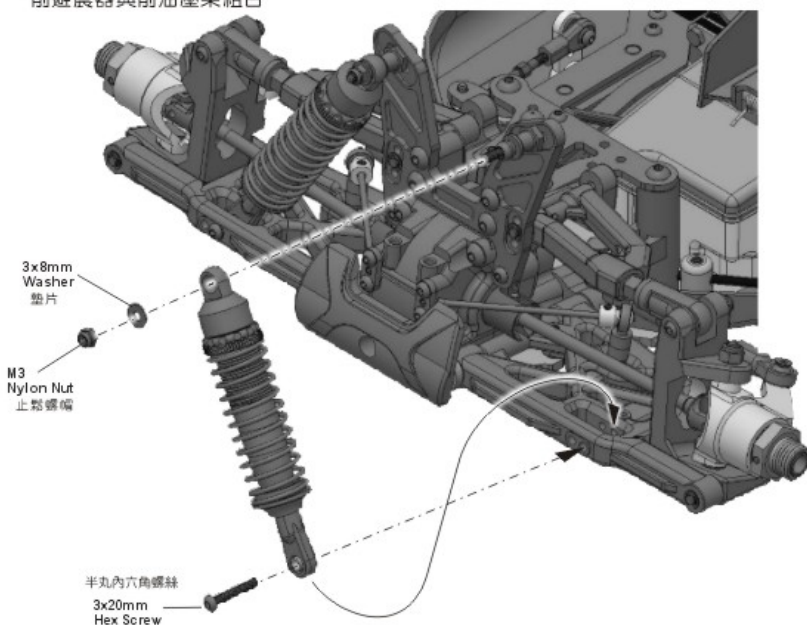


52

## ASSEMBLY OF THE FRONT SHOCK ABSORBER

前避震器與前油壓架組合

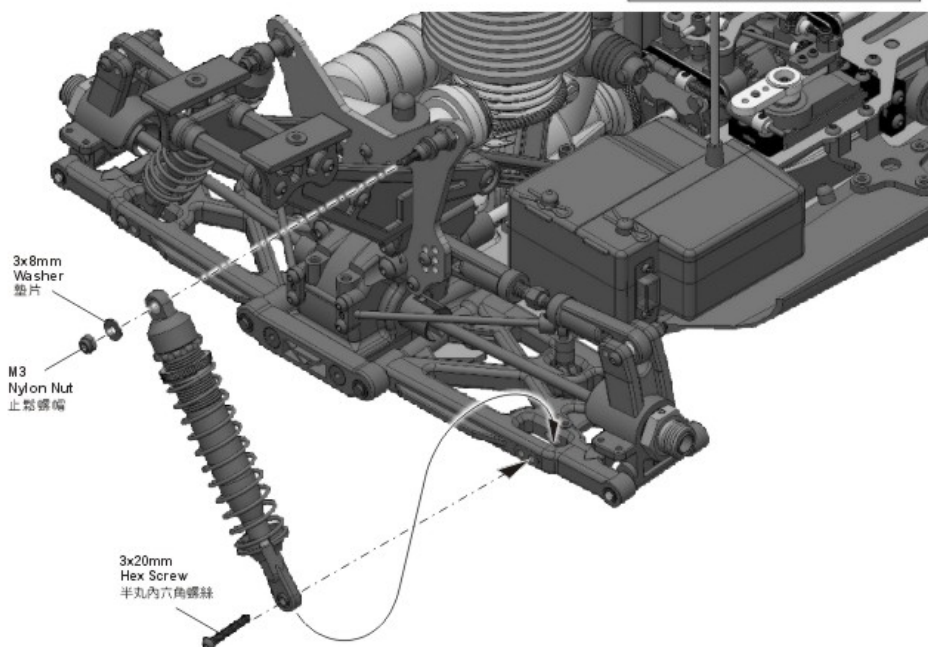
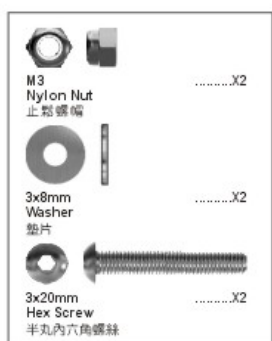
Assembly both right and left side.  
請組合左 / 右兩側



## 53 ASSEMBLY OF THE REAR SHOCK ABSORBER

後避震器與後油壓架組合

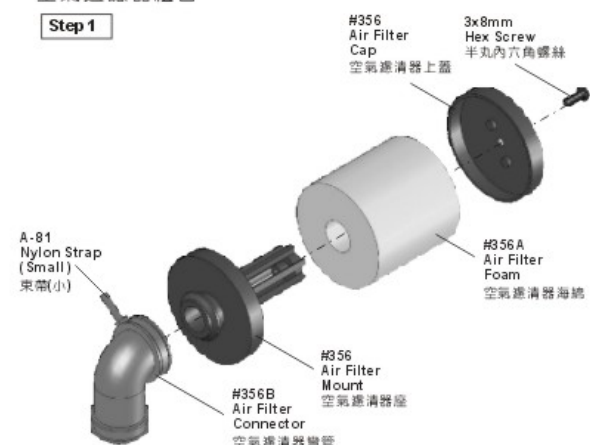
Assembly for both right and left side.  
請組合左 / 右兩側



## 54 ASSEMBLY OF THE AIR FILTER

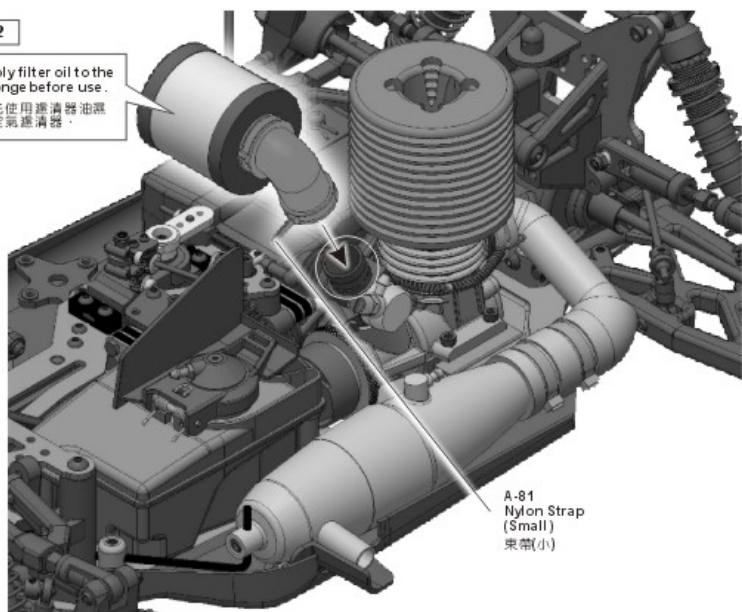
空氣過濾器組合

Step 1



Step 2

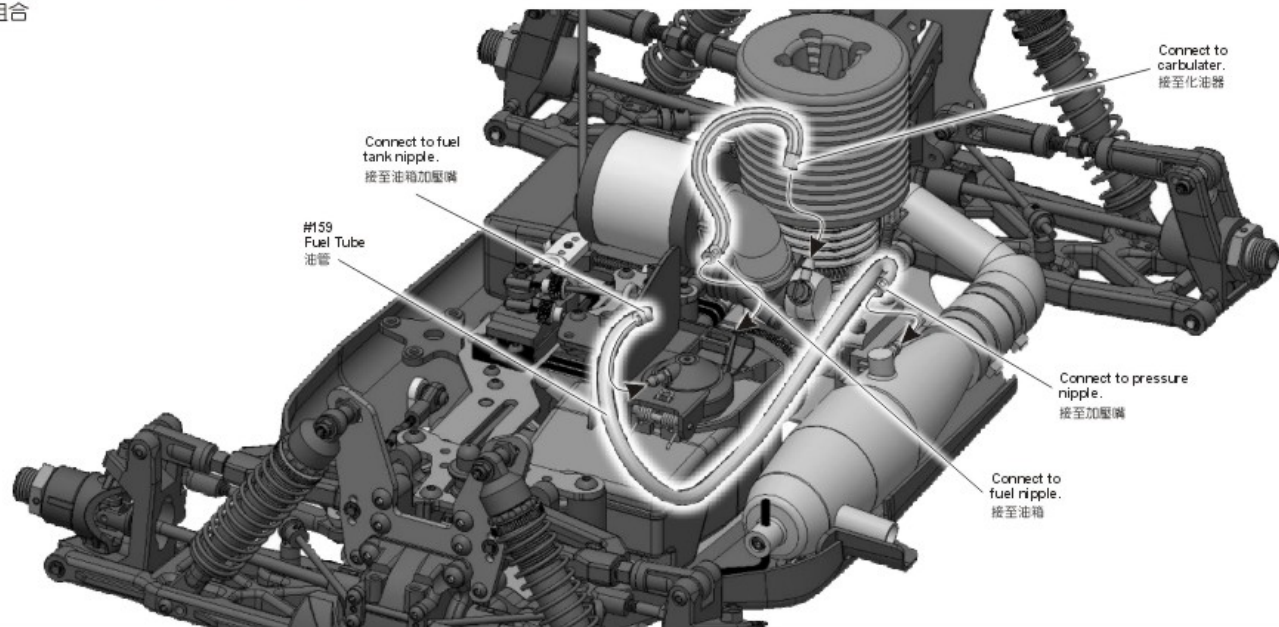
Apply filter oil to the sponge before use.  
請先使用濾清器油潤滑空氣濾清器。





## 55 ASSEMBLY OF THE FUEL TUBE

油管組合



## 56 ASSEMBLY OF THE TIRES AND WHEELS

輪胎與輪圈組合

Step 1

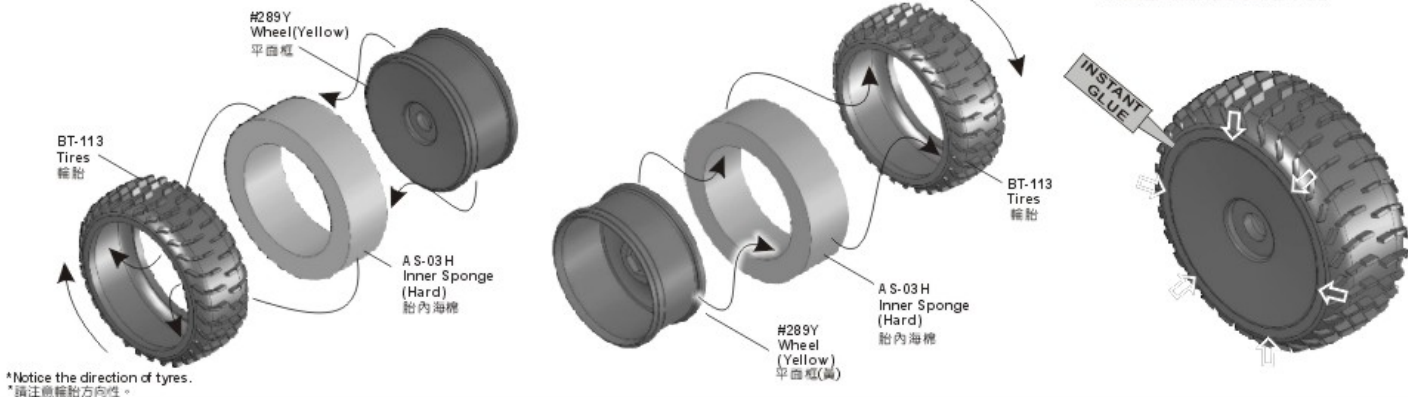
Make two right tires are the same.  
請組合2個右胎。

Step 2

Make two left tires are the same.  
請組合2個左胎。

Step 3

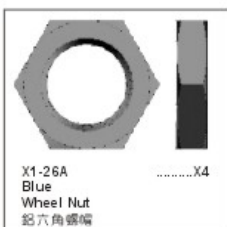
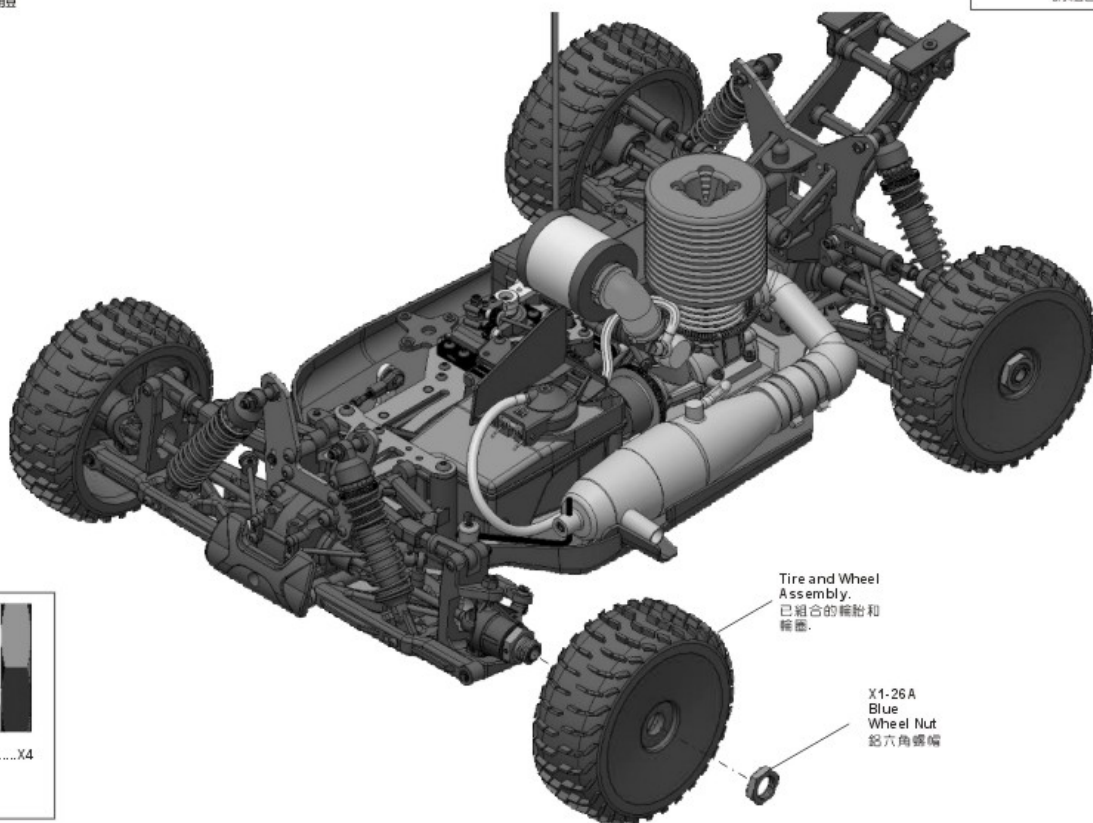
Apply instant glue into the groove of the wheel.  
請在輪圈與輪胎接合處用瞬間膠水粘合。



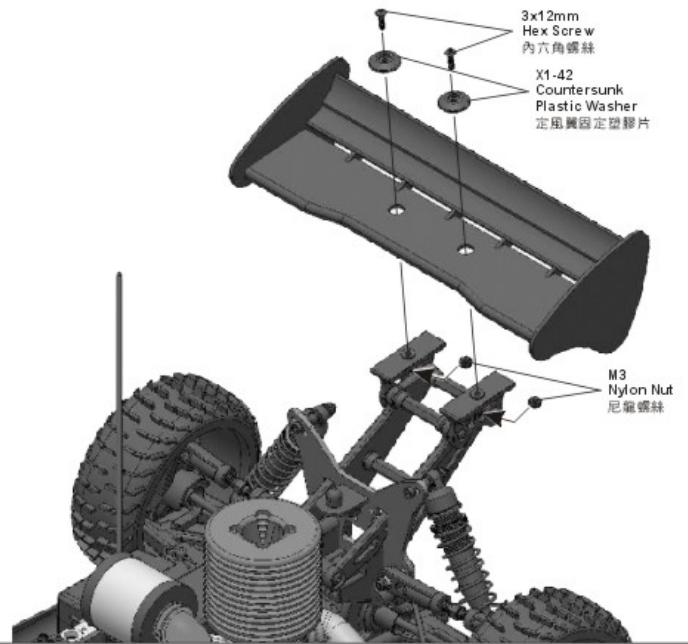
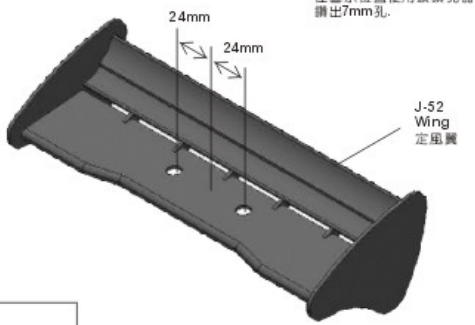
## 57 ASSEMBLY OF THE TIRE ONTO FRONT KNUCKLE AND REAR HUB

安裝輪胎至車體

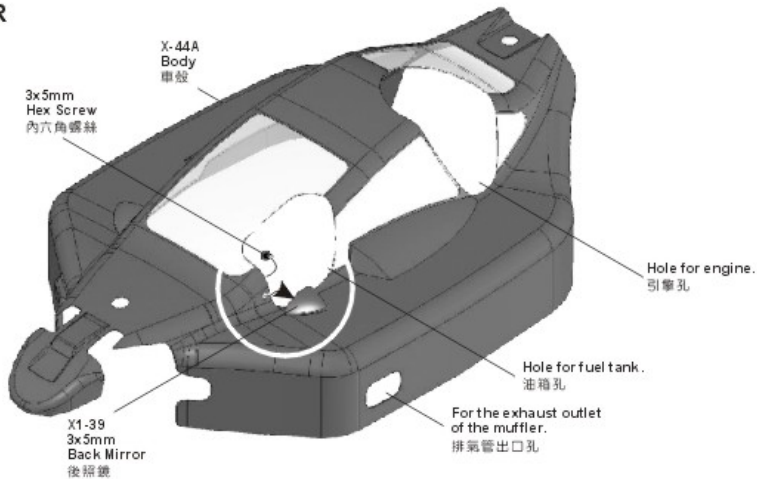
Assembly for both right and left side.  
請組合左/右兩側



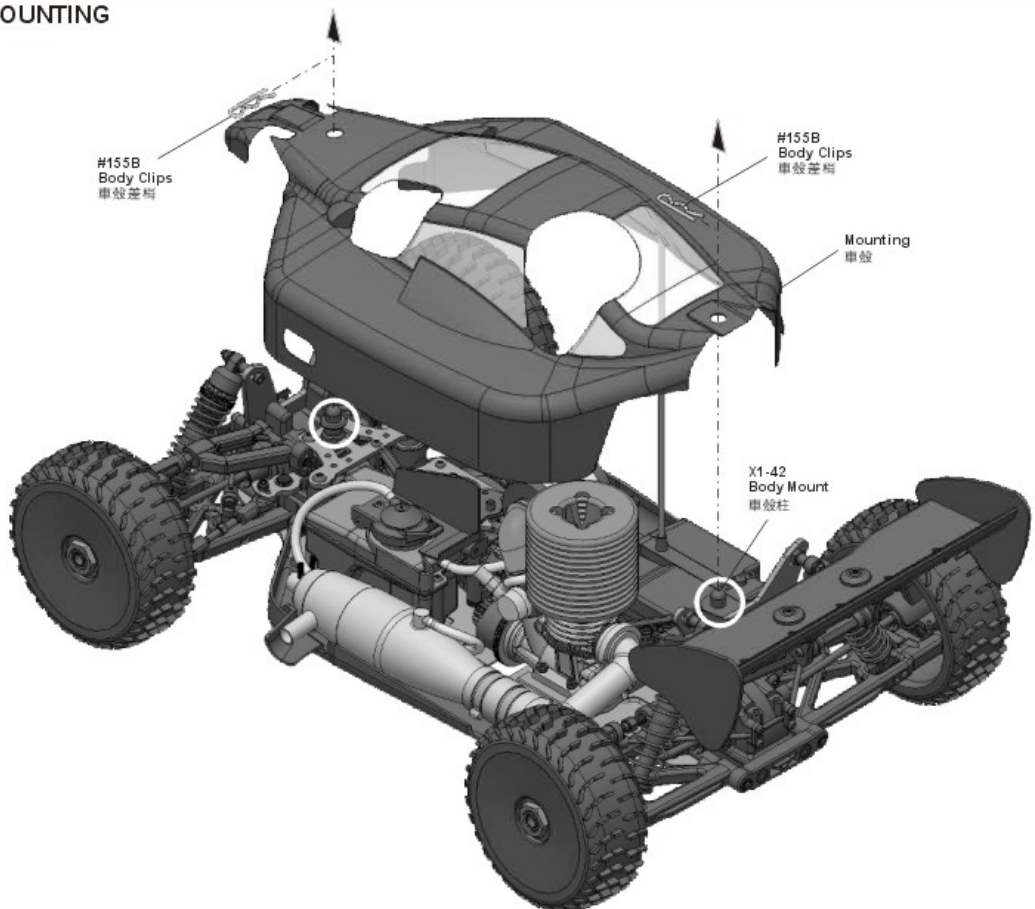
## 58 ASSEMBLY OF THE WING 定風翼架組合



## 59 ASSEMBLY OF THE BACK MIRROR 組合後照鏡



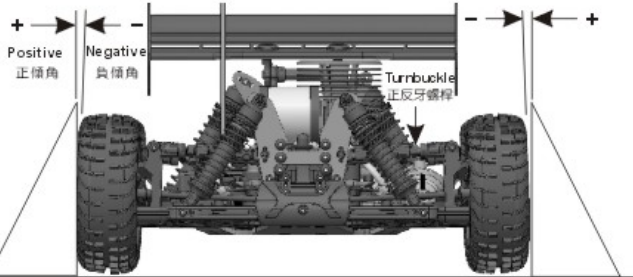
## 60 ASSEMBLY OF THE MOUNTING 組合車殼





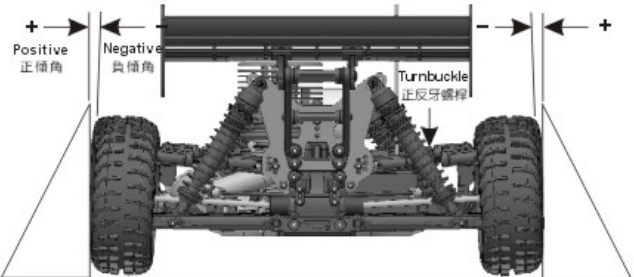
# SETTING GUIDE 輪胎角度設定

## FRONT CAMBER ANGLE SETTING 前胎輪傾角調整



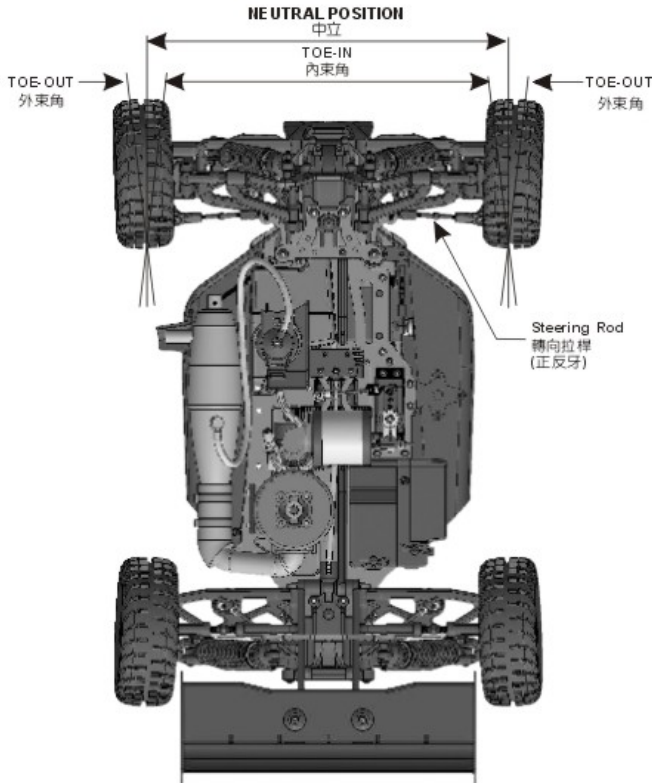
Place the model car on flat surface. Raise the chassis to its maximum clearance before the wheels leave the ground.  
Adjust the length of the front and rear upper arms so that the wheels are right angle to the ground.  
The camber angle adjustment can be moving the turnbuckle rod on the upper arms, clockwise or anti-clockwise.  
(We suggest use zero degree for the front and 1.5 negative degree for the rear.)

## REAR CAMBER ANGLE SETTING 後胎輪傾角調整



1. 將車體放置在平整桌面上並保持在正確離地高度。調整上擺臂長度使輪胎與地面垂直(0度)。
2. 調整上擺臂"正反牙螺桿"長度可改變正負傾角設定。  
加長上擺臂-傾角變為-正傾角。  
縮短上擺臂-傾角變為-負傾角。  
(我們建議前輪為0度,後輪為負1.5度。)

## FRONT TOE-IN AND TOE-OUT SETTING 前輪內束角/外束角 調整



Adjust the length of front steering rod to change the toe angle.

Making the tie rod longer will make the front tires become toe-in.  
Response will be slower and will over steer.

Making the tie rod shorter will make the front tires become toe-out.  
Response will be quicker and will under steer.

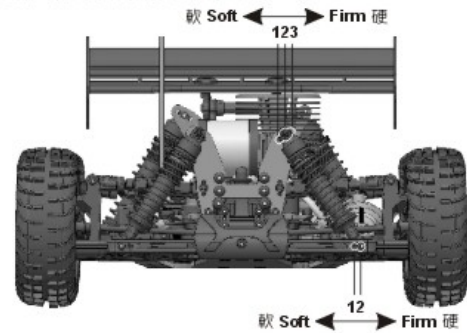
改變前輪轉向拉桿之長度可以改變前輪"內束角"與"外束角"。

1. 將前輪轉向拉桿加長, 前輪會成內束角。此時轉向反應會變慢, 並且有轉向過度情形產生。

2. 將前輪轉向拉桿變短, 前輪會成外束角。此時轉向反應會變快, 並且有轉向不足情形產生。

## FRONT SHOCK ANGLE SETTING 前油壓避震器角度調整

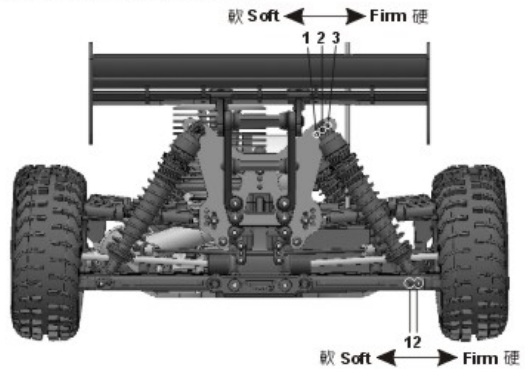
前油壓避震器會因安裝在不同位置, 而使懸吊系統產生不同硬軟變化。前油壓避震器位置愈往車體中心, 懸吊反應變軟, 後輪懸吊系統較硬不同, 會產生不同轉向特性。油壓避震器裝配孔位, 請依場地不同而調整在不同位置。



Firm front suspension, less steering. 前輪硬-轉向不足  
Soft front suspension, more steering. 前輪軟-轉向過度

## REAR SHOCK ANGLE SETTING 後油壓避震器角度調整

後油壓避震器會因安裝在不同位置, 而使懸吊系統產生不同硬軟變化。後油壓避震器位置愈往車體中心, 懸吊反應變軟, 後輪懸吊系統較硬不同, 會產生不同捉地力特性。油壓避震器裝配孔位, 請依場地不同而調整在不同位置。



## STARTING OF THE ENGINE 起動引擎

### How to start the engine:

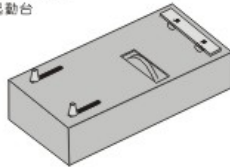
1. Turn on transmitter and then receiver.
2. Fill fuel tank with fuel bottle.
3. Connect 1.2V glowplug starter.
4. Start engine with 12V starter.  
(Note the direction of the starter.)
5. After the engine be started, remove the 1.2V glow plug starter.

1. 先開啟發射機電源, 打開接收機電源。
2. 將燃油加入油箱內。
3. 接上1.2V火星塞電夾至火星塞上。
4. 使用12V起動器, 起動引擎(注意起動器旋轉方向)
5. 引擎起動後移開1.2V火星塞電夾。

\* Follow the engine manufacturer instruction manuals regarding engine set-up, carburetor and maintenance.

\* 請依照引擎製造商的說明書以調整及保養引擎。

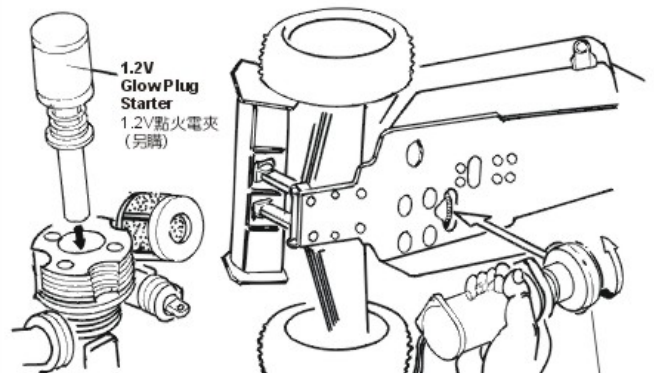
### Starter Box 起動台



### Starter rubber ring for car. (Insert starter rubber ring on the 12V starter.)



To start the engine, it is equipped with a high power 12V DC starter or starter box.  
起動引擎請使用強力12V起動器或起動台。











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