

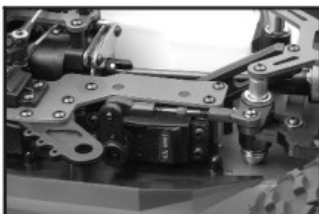
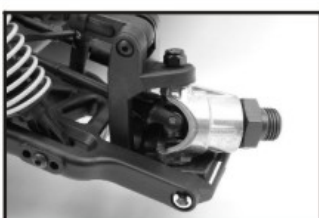
# ULTRA X ONE



## 1/8TH SCALE NITRO OFF-ROAD BUGGY

**4WD**  
FOUR WHEEL DRIVE

### INSTRUCTION MANUAL 組立說明書



#### ADDITIONAL PARTS NEEDED

- GLOW PLUG CROSS WRENCH.
- RC CAR FUEL (20%)
- RECHARGEABLE GLOWIGNITOR.
- STARTER BOX or A 12V 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
- \* 12V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 PART OF THIS KIT.
- PAINT IS NOT INCLUDED.

#### 本產品非玩具

- \* 16歲以下或兒童請勿玩用。
- \* 未有組裝經驗者，請由專業人士指導。

**HN**  
*Racing*

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

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

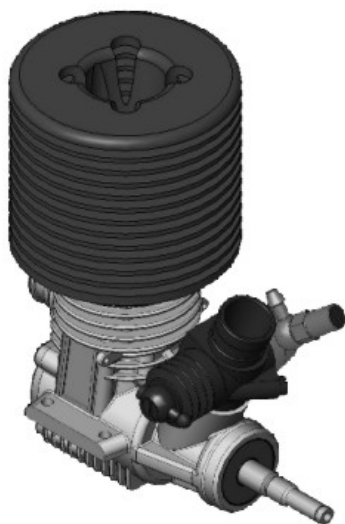
TEL: 886 2-2694-0345  
FAX: 886 2-2694-1632

[www.hongnor.com.tw](http://www.hongnor.com.tw)

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 VERY 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



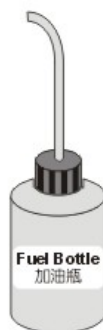
REAR EXHAUST 21~28 CLASS ENGINE

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

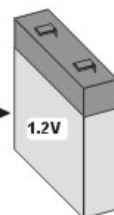


Glow Fuel  
模型用燃油



Fuel Bottle  
加油瓶

1.2V Battery for  
Glow Plug Heat  
1.2V 火花塞點火  
用電池



1.2V

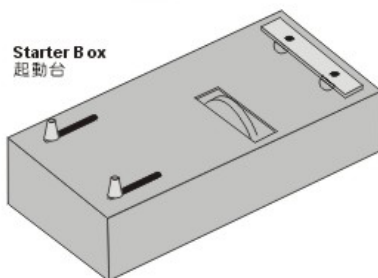


1.2V

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



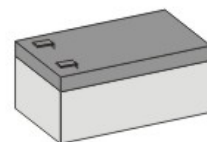
Starter Box  
起動台



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

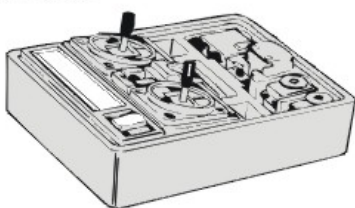


12V Battery for Starter  
12V 電池 (起動器用)



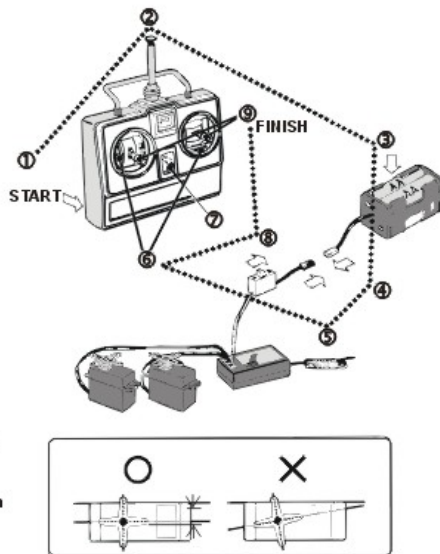
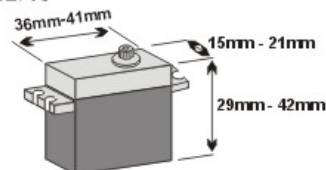
RADIO CONTROL UNIT 另購裝備

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.

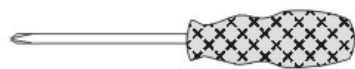
SEQUENCE TO SET NEUTRAL

遙控在組合前必要設立中立點

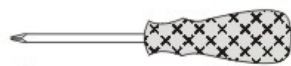
- |   |                                      |
|---|--------------------------------------|
| ① Install UM-3 batteries.   | 裝入3號乾電池(發射機用)                        |
| ② Extend the antenna.(Transmitter)  | 拉出天線                                 |
| ③ Install batteries.  | 裝入3號乾電池盒(接收機用)                       |
| 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。(拆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

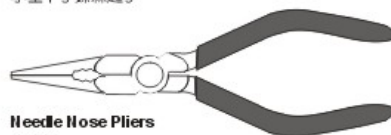
需使用之工具



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



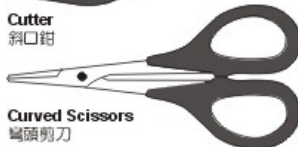
Needle Nose Pliers  
尖嘴鉗



Knife  
美工刀



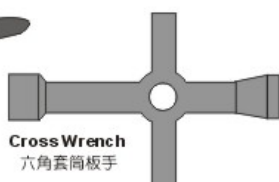
Cutter  
斜口鉗



Curved Scissors  
彎頭剪刀



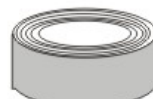
Precision Caliper  
游標卡尺



Cross Wrench  
六角套筒板手



Instant Cement  
3秒瞬間膠水



Masking Tape  
紙膠帶



Grease  
黃油



Paints  
模型用油漆



Oil  
潤滑油

TOOLS INCLUDED WITH KIT

套件內裝備



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



3mm Allen Wrench  
3mm 內六角板手

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，請遵守以列幾點。另外，由於此模型車時速超過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；因為它的速度很快很容易碰撞物件。
- ◎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 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!**

# OPERATING YOUR MODEL SAFELY 安全的操作說明

## 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.

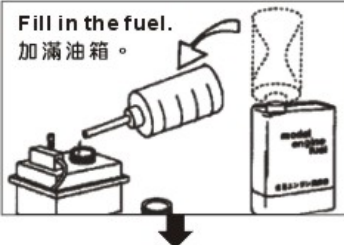
確認所有的螺絲是否已全部鎖緊。

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。

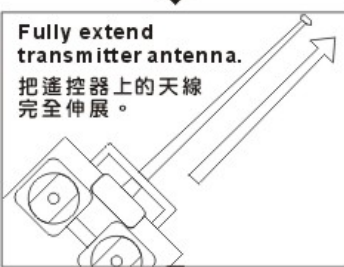
Fill in the fuel.

加滿油箱。



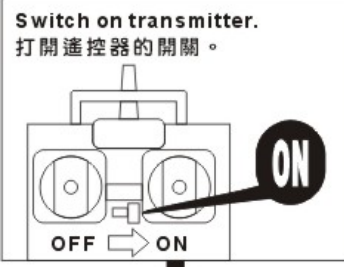
Fully extend transmitter antenna.

把遙控器上的天線完全伸展。



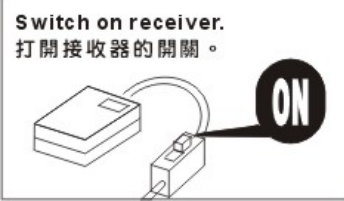
Switch on transmitter.

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。



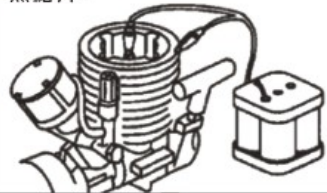
To prime the engine with fuel, press down the primer button.

首先，裝填引擎燃料，再按下進油幫浦（如果有此裝備）。



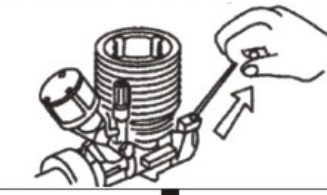
Attach one clip to the glow plug's end and the other clip to one of the cylinder cooling fins.

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。



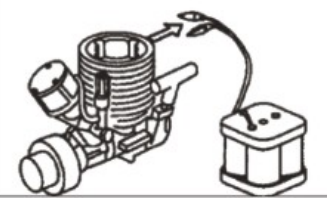
Adjust by screwing the needle little by little.

以順時針方向逐漸地微調油針。



Remove the clips from the engine.

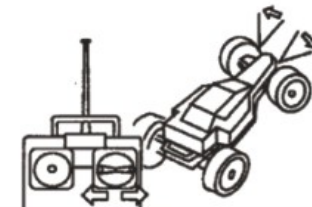
移去起動火星塞電夾。



## 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.

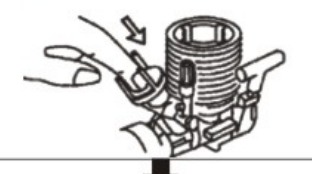
試跑遙控車的行進方向是否和你操作的遙控器前後方向相同。



## 操作後 After Running

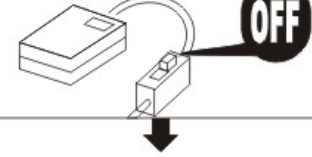
By pushing with your fingers the air cleaner, interrupt the engine.

用手指壓下空氣濾清器，可以中斷引擎。



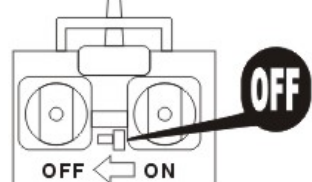
Switch off receiver.

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！



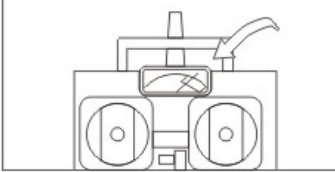
If model does not operate correctly stop it and find the cause.

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。



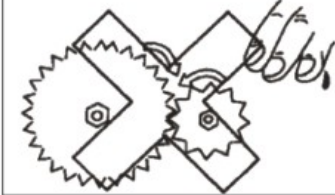
After each run, the model is hot. Beware of getting burned.

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。



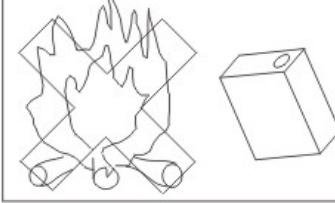
Keep hands and tools away from moving parts.

勿用手碰觸運轉中的零件。

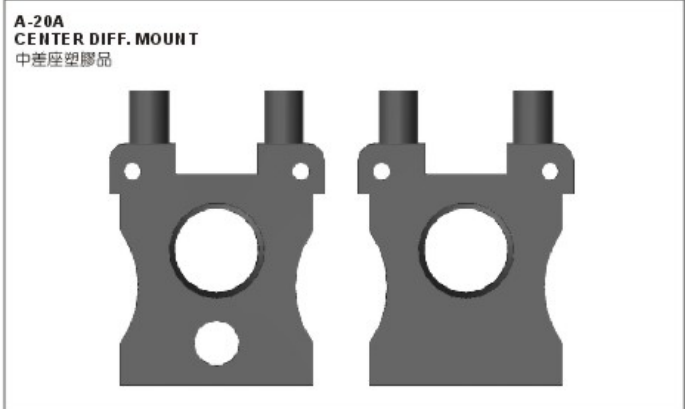
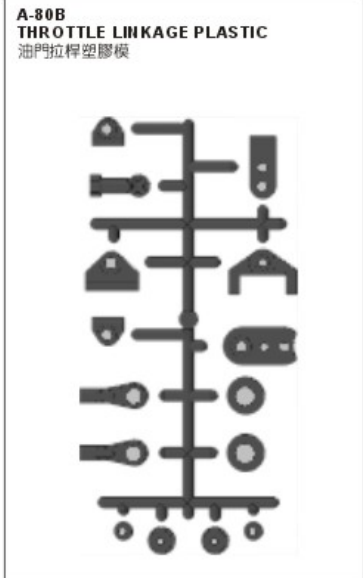
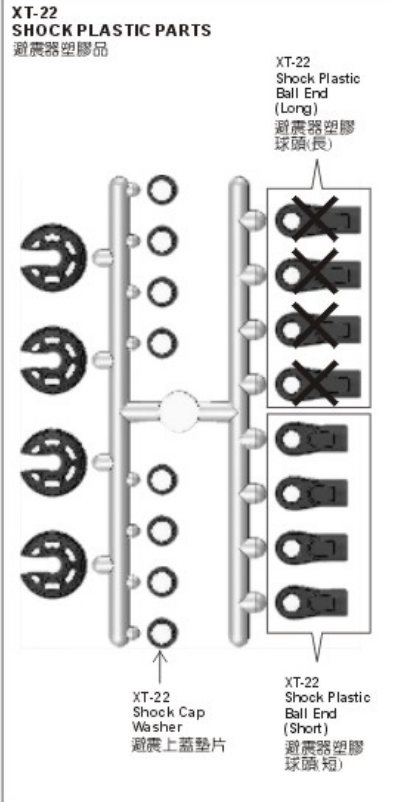
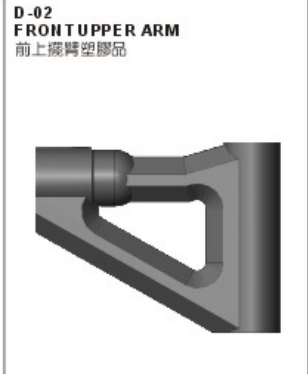
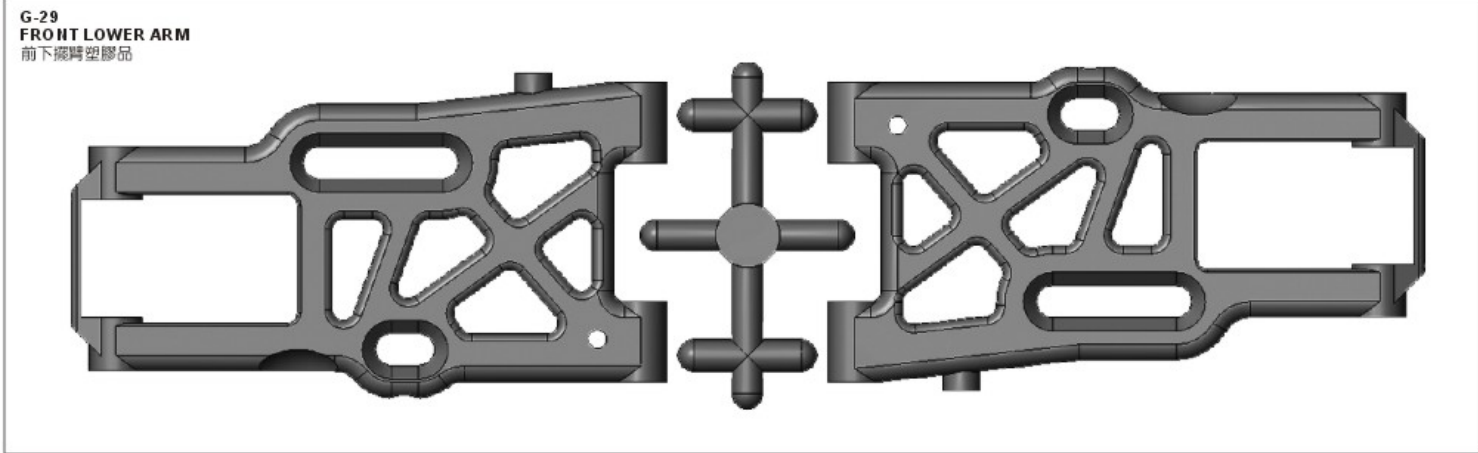
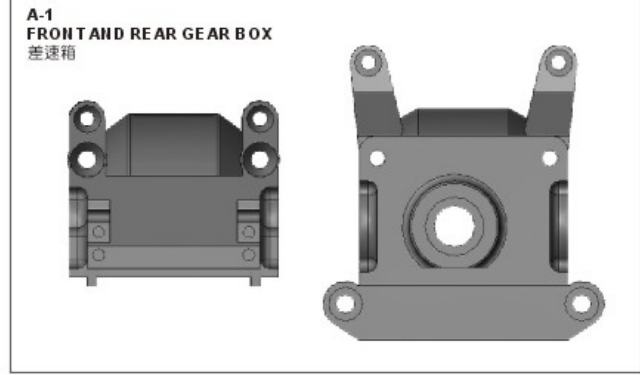
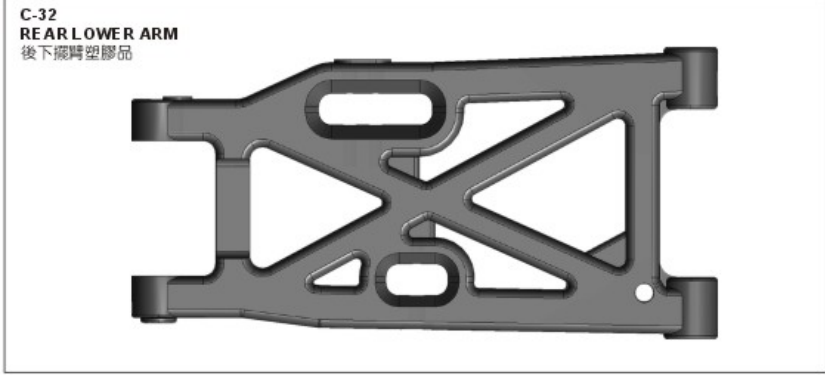
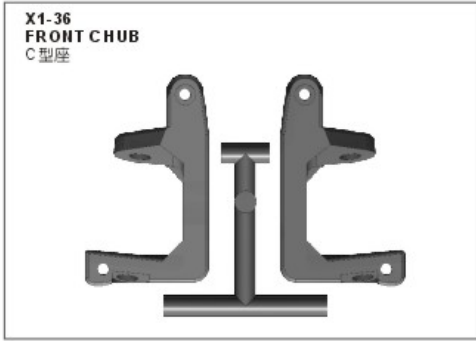


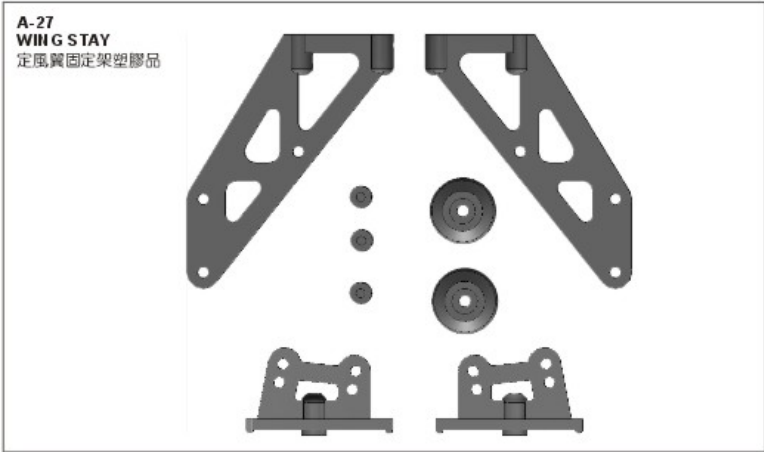
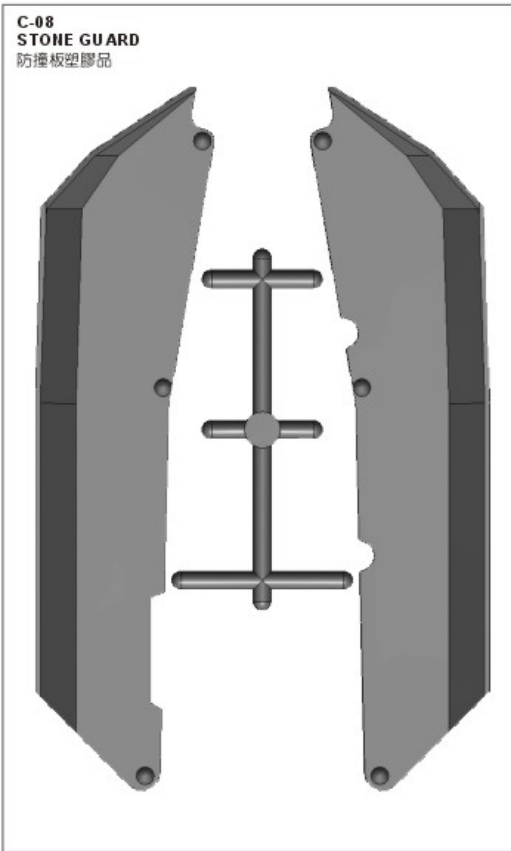
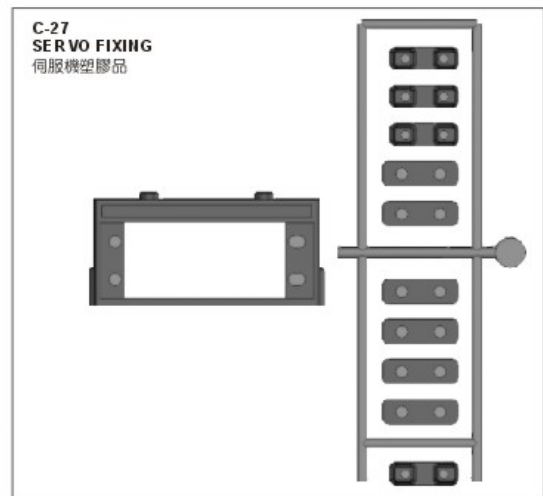
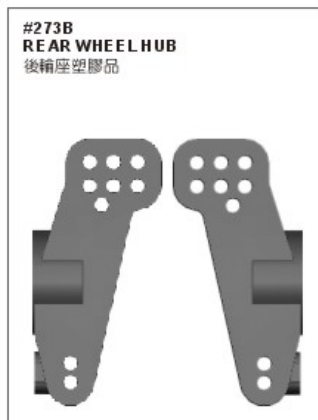
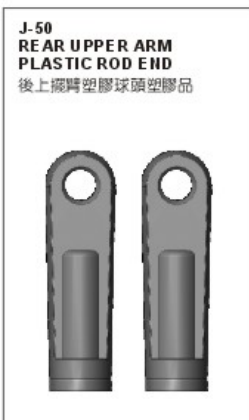
Never throw burning, gleaming or smouldering things into fuel cans even if these happen to be empty.

各種油類需要遠離火源。



# PLASTIC PARTS FOR USE 使用塑膠品













**SYMBOL USED THROUGHOUT THE INSTRUCTION MANUAL**  
說明書附註使用標示

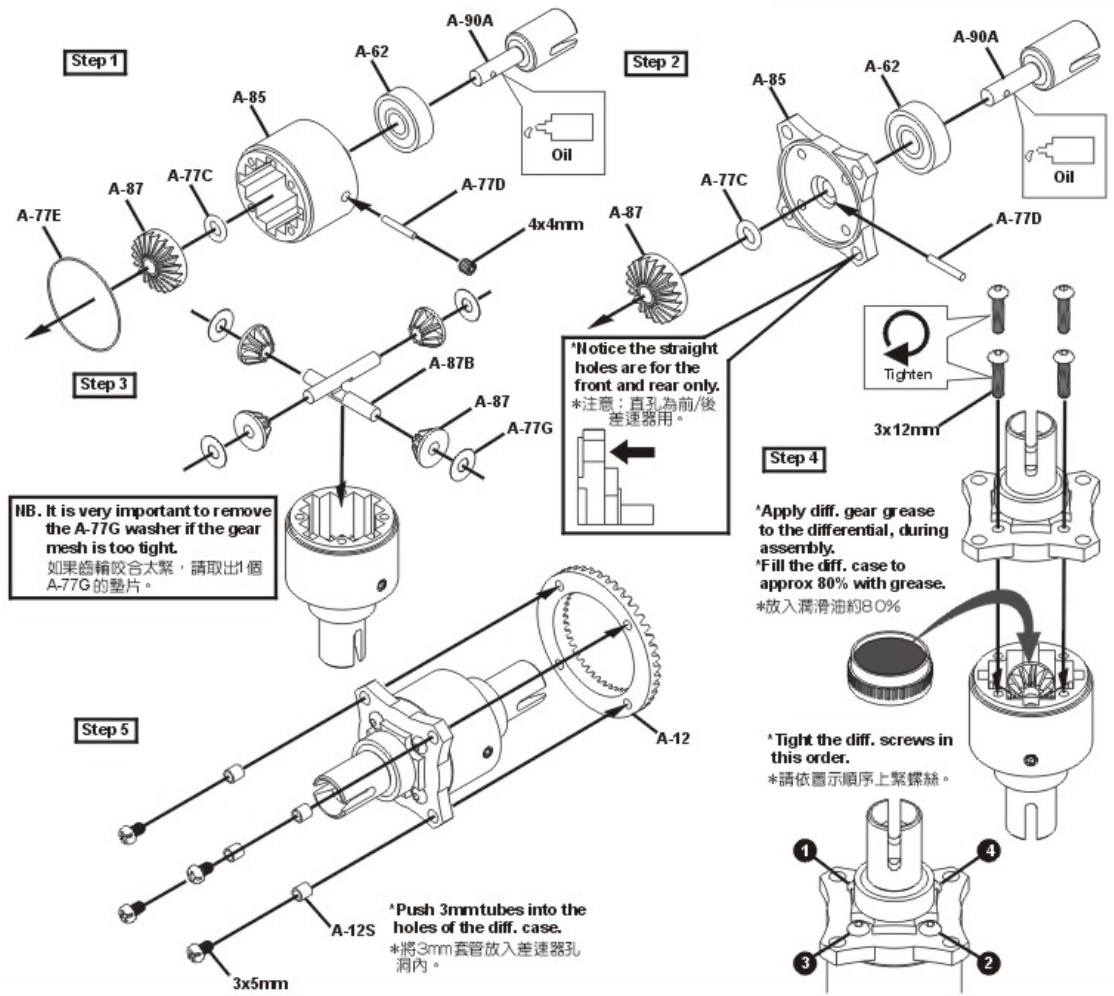
<b>Parts Bag Used</b> 使用零件包裝袋	<b>Degrease With Motor Spray</b> 使用清潔噴劑	<b>Do Not Over Tighten</b> 請勿鎖緊物件	<b>Tighten</b> 鎖緊物件	<b>Ensure Free Movement</b> 確定可自由活動	<b>Contact Adhesive</b> 使用強力打接著劑
<b>Apply Screw Cement</b> 使用螺絲膠	<b>Apply Oil</b> 塗上潤滑油	<b>Apply Grease</b> 塗上潤滑黃油	<b>1:1</b> True-To-Scale 1:1原寸圖	<b>Clockwise Rotation</b> 順時針方向旋轉	<b>Anti-clockwise Rotation</b> 反時針方向旋轉

# 1 ASSEMBLY OF THE FRONT AND REAR DIFF.

## 組合前後差速器

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

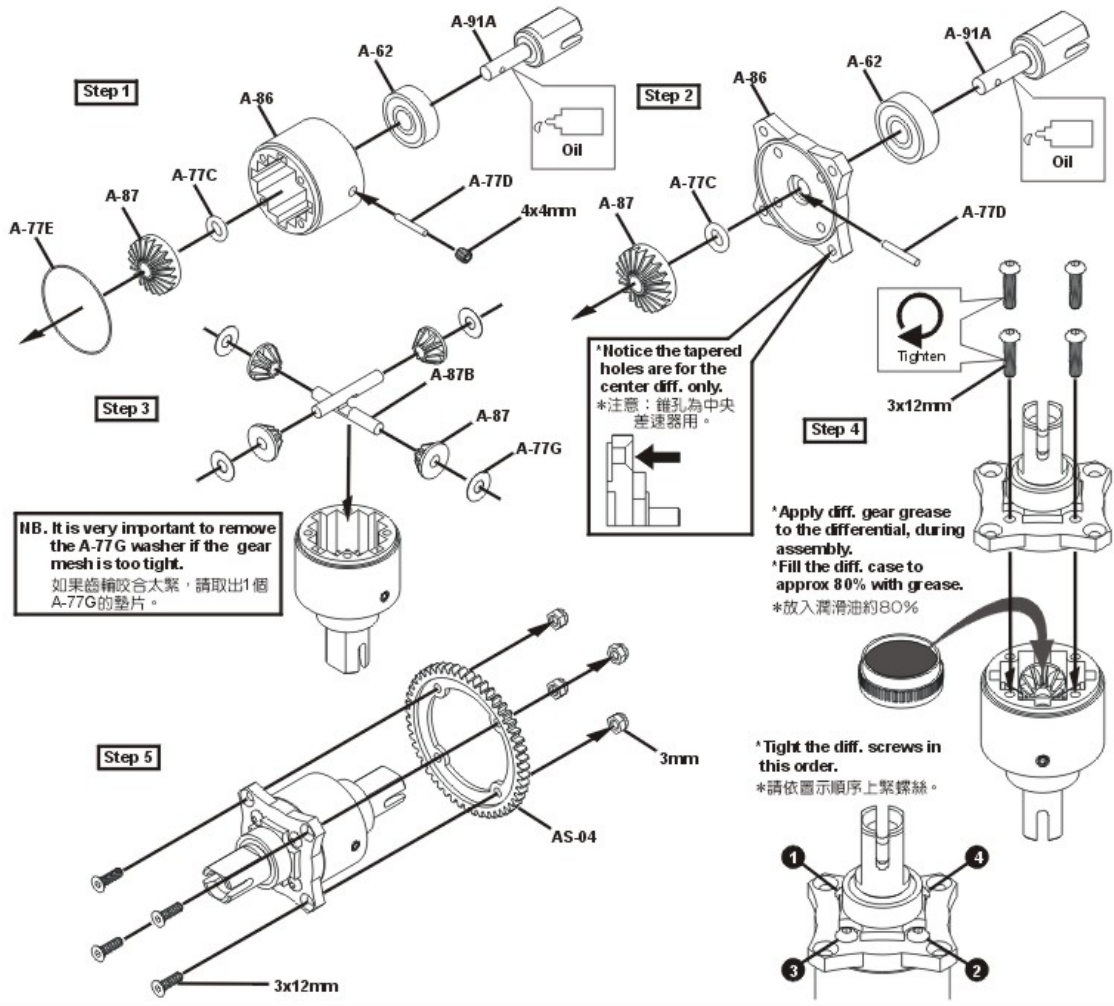
-  M4x4 Set Screw 止付螺絲 .....x2
-  3x5mm Screw 丸十字螺絲 .....x8
-  3x12mm Hex Screw 半丸內六角螺絲 .....x8
-  A-77C P5 O-Ring O環 .....x4
-  A-77G 4x10mm Washer 墊片 .....x8
-  A-77D 2x12.8mm Pin 滾針 .....x4
-  A-87B 4mm Cross Pin 十字軸 .....x4
-  A-12S 3mm tube .....x4



# 2 ASSEMBLY OF THE CENTER DIFF.

## 組合中央差速器


-  M4x4 Set Screw 止付螺絲 .....x1
-  3x12mm Flat Head Hex Screw 圓頭內六角螺絲 .....x4
-  3x12mm Hex Screw 半丸內六角螺絲 .....x4
-  A-77C P5 O-Ring O環 .....x2
-  A-77G 4x10mm Washer 墊片 .....x4
-  A-77D 2x12.8mm Pin 滾針 .....x2
-  A-87B 4mm Cross Pin 十字軸 .....x2

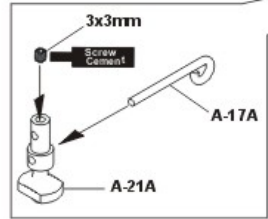
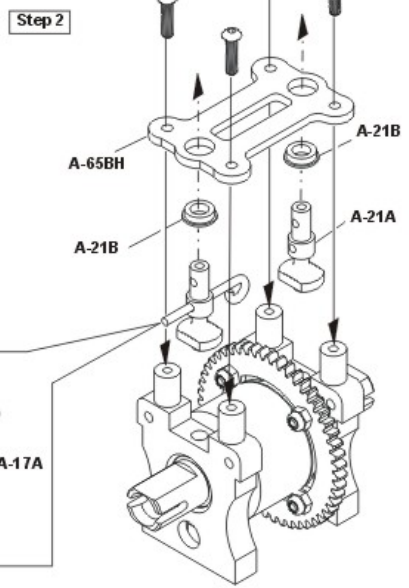
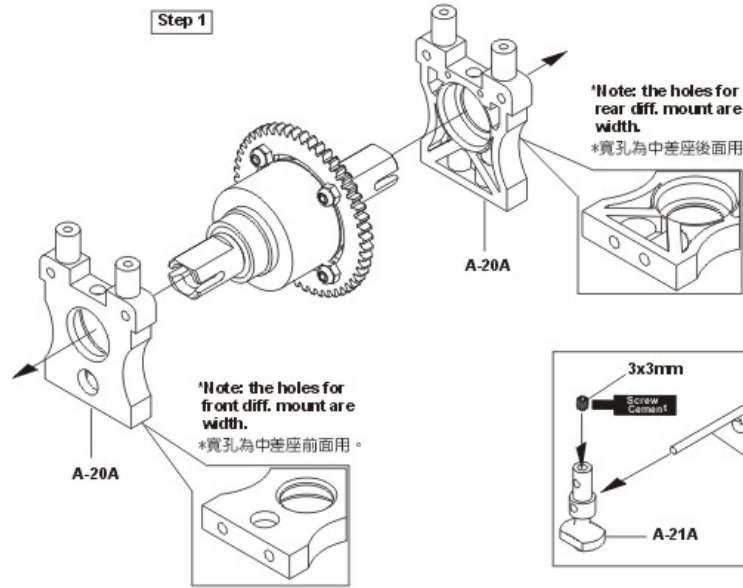




### 3 ASSEMBLY OF THE CENTER DIFF. MOUNT

組合中央差速器與中差座

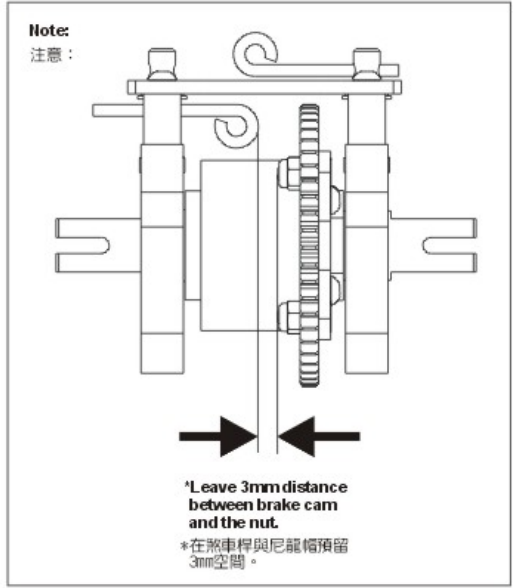
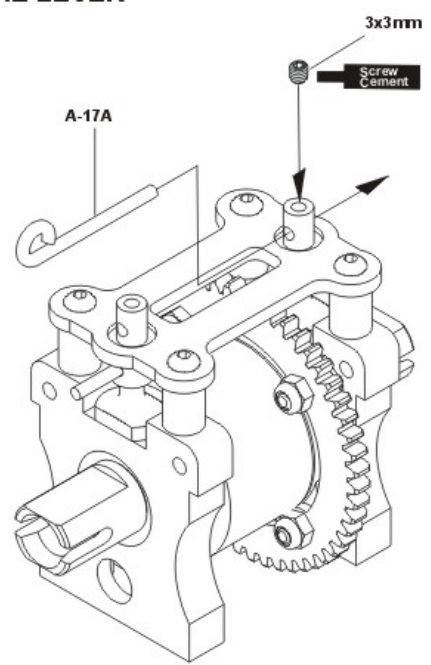
-  M3x3 Set Screw .....x1  
止付螺絲
-  3x12mm Hex Screw .....x4  
半丸內六角螺絲



### 4 ASSEMBLY OF THE BRAKE LEVER

組合煞車桿

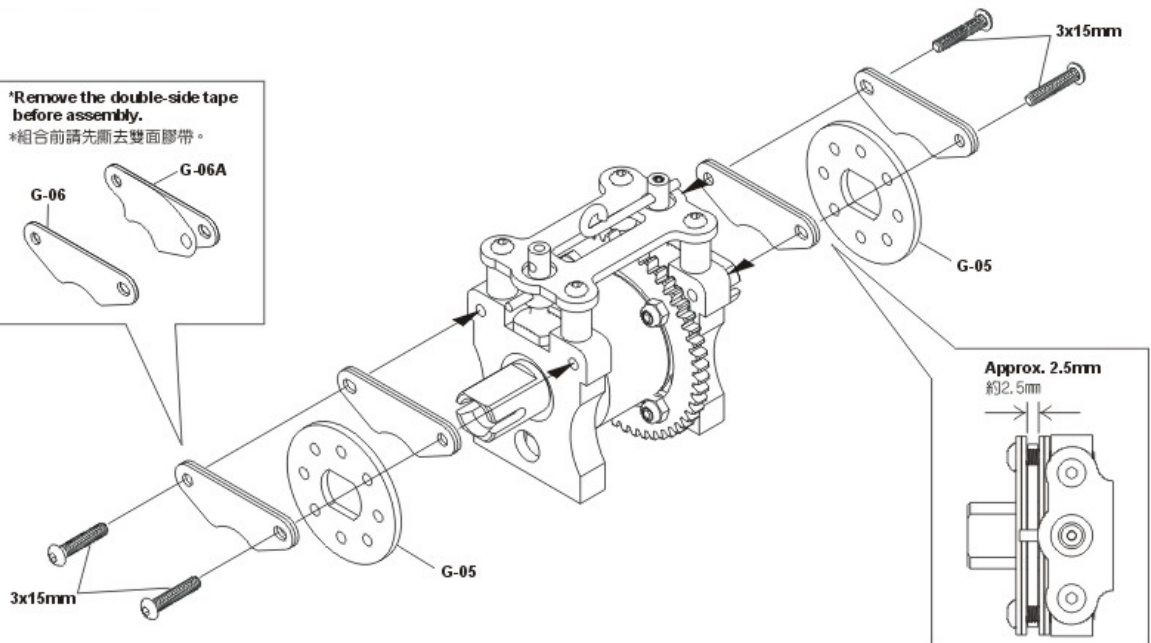
-  M3x3 Set Screw .....x1  
止付螺絲



### 5 ASSEMBLY OF THE BRAKE PADS

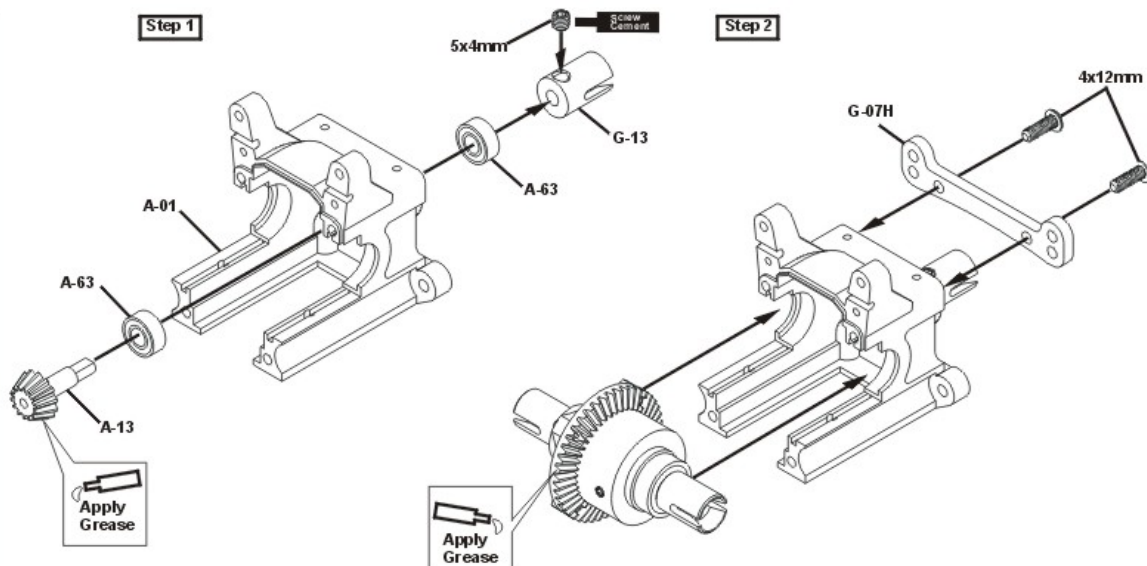
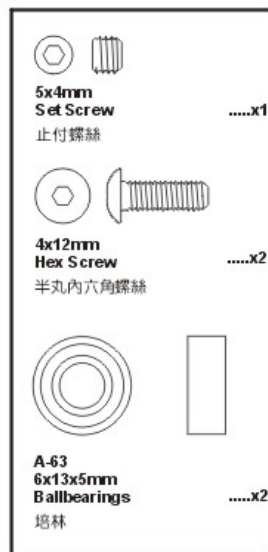
組合煞車夾片

-  3x15mm Hex Screw .....x4  
半丸內六角螺絲



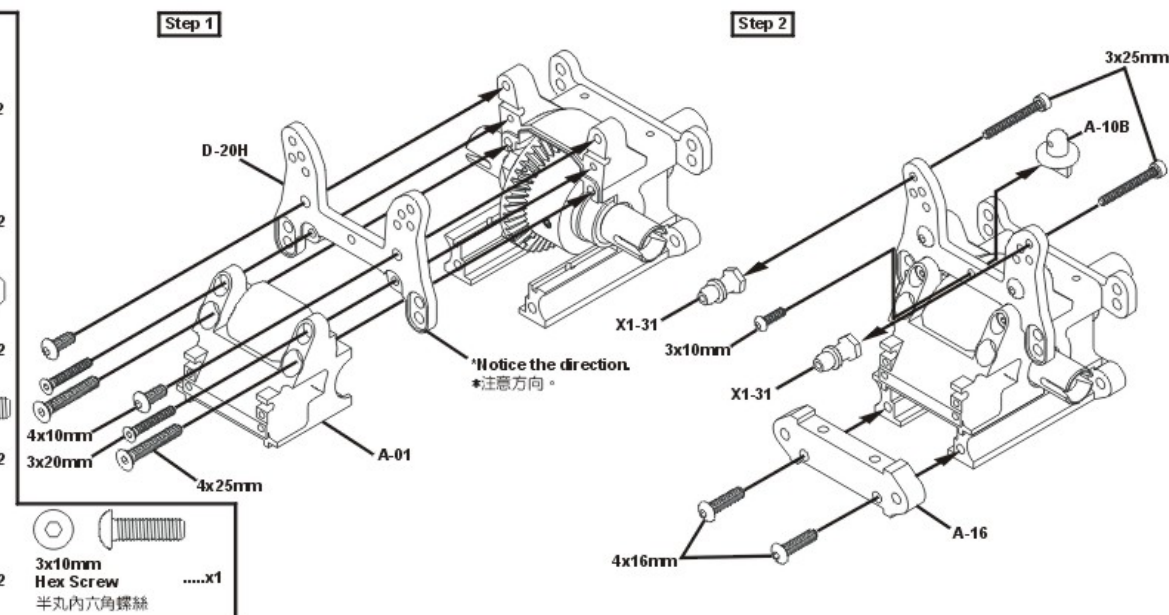
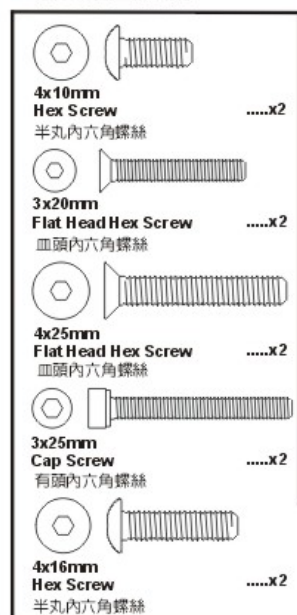
## 6 ASSEMBLY OF THE FRONT GEAR BOX

### 組合前齒輪箱



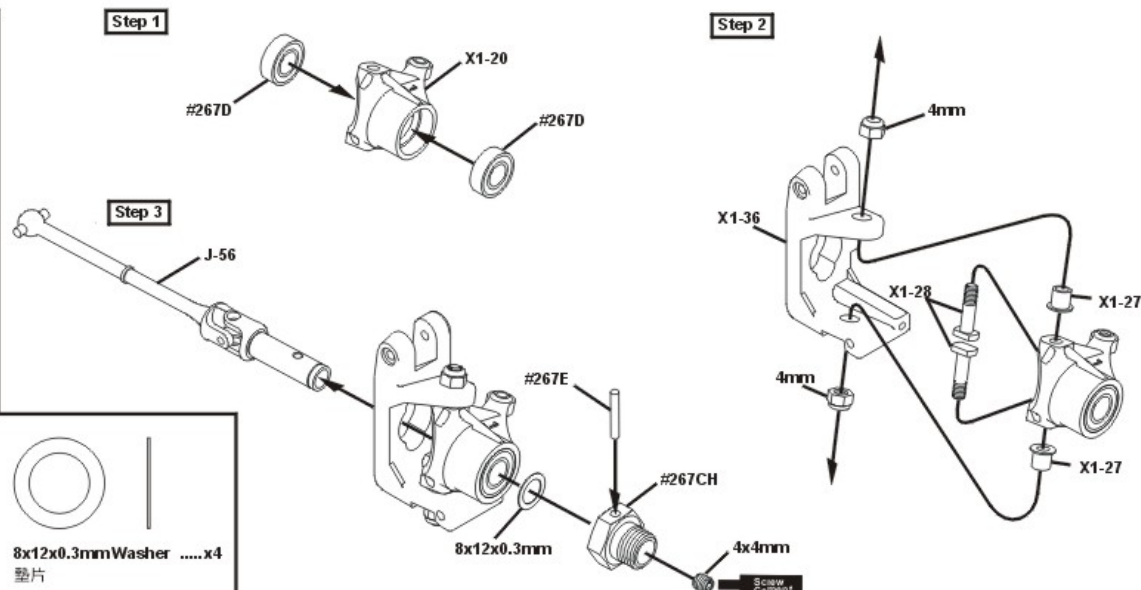
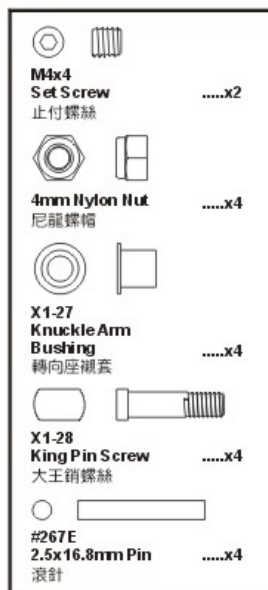
## 7 ASSEMBLY OF THE FRONT GEAR BOX

### 組合前齒輪箱



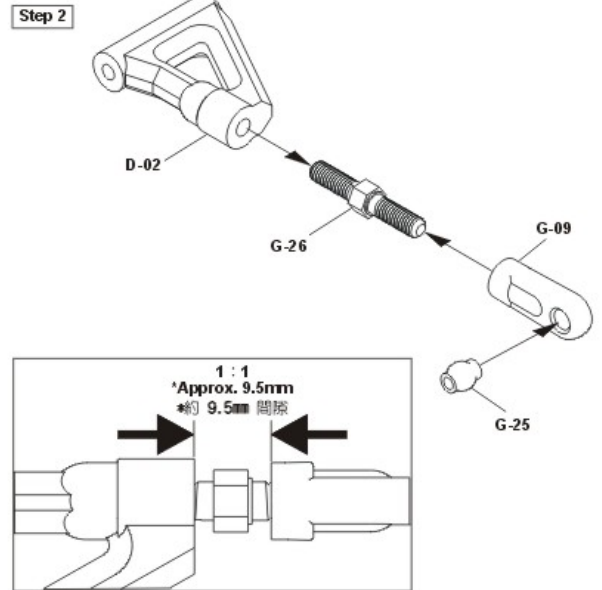
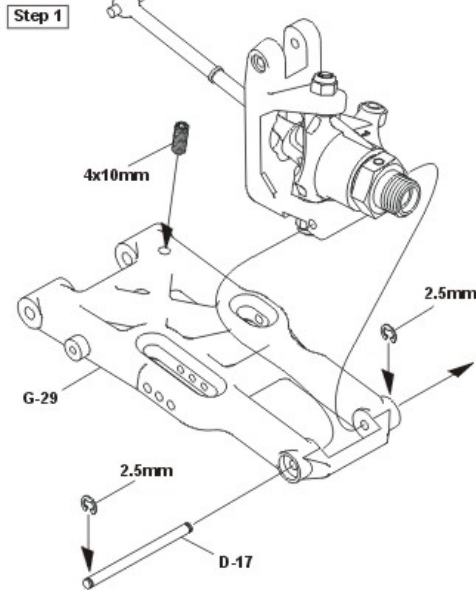
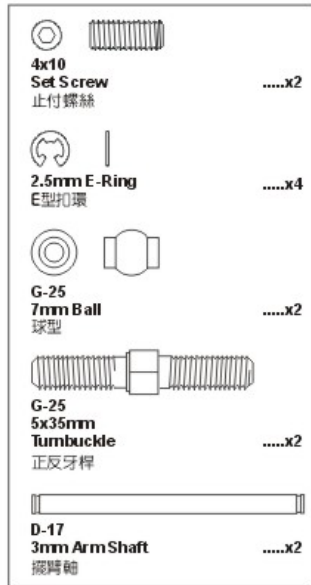
## 8 ASSEMBLY OF THE FRONT KNUCKLE ARMS

### 組合轉向座



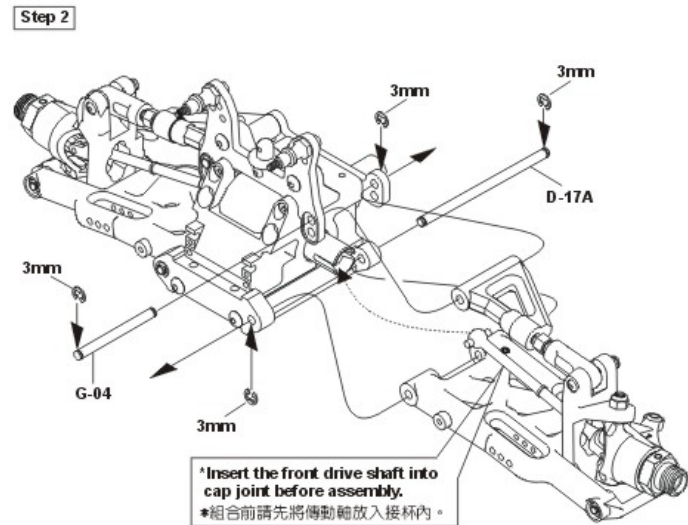
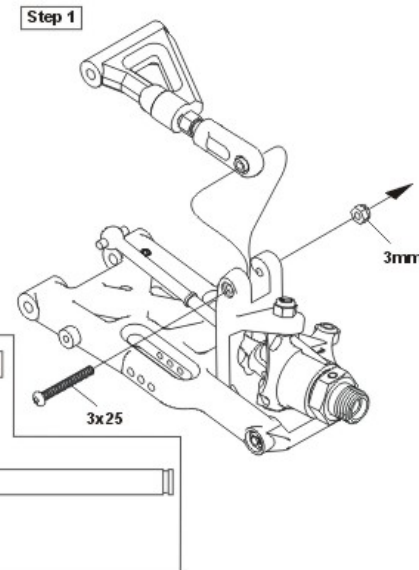
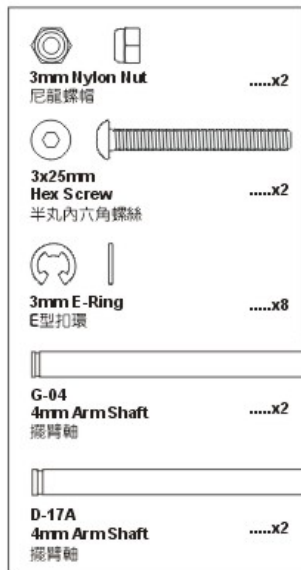
## 9 ASSEMBLY OF THE FRONT SUSPENSION ARMS 組合前懸吊系統

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

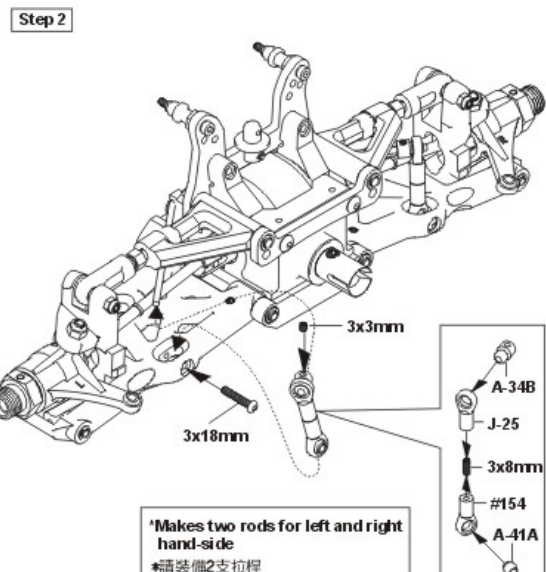
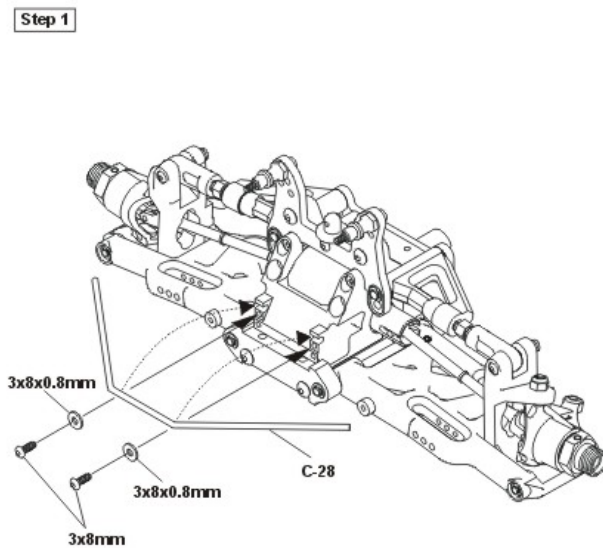
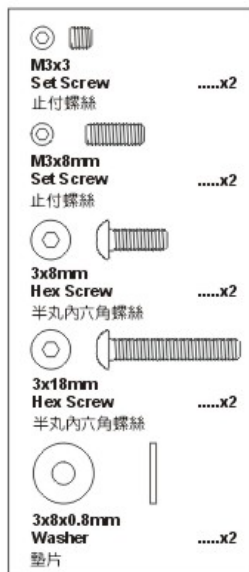


## 10 ASSEMBLY OF THE FRONT SUSPENSION ARMS 組合前懸吊系統

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



## 11 ASSEMBLY OF THE FRONT SUSPENSION ARMS 組合前懸吊系統

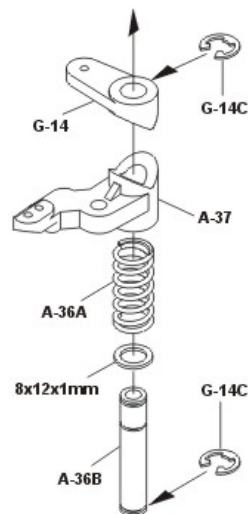


## 12 ASSEMBLY OF THE SERVO SAVER

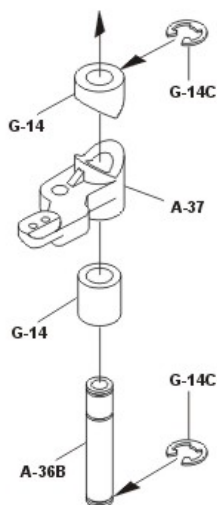
### 組合緩衝組



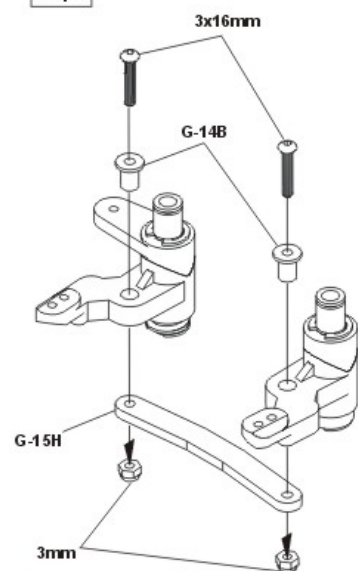
Step 1



Step 2

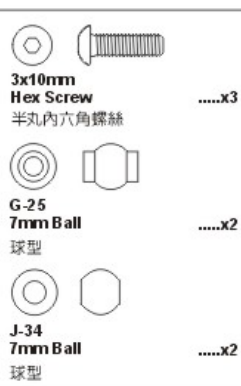


Step 3

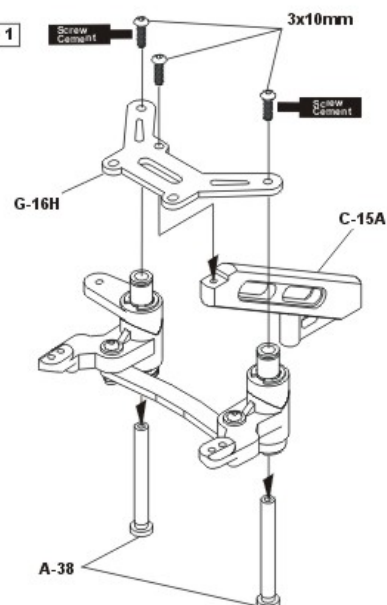


## 13 ASSEMBLY OF THE SERVO SAVER

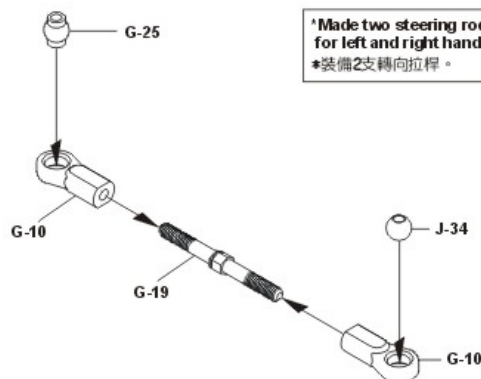
### 組合緩衝組



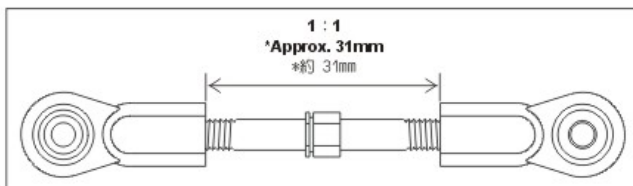
Step 1



Step 2



\*Made two steering rods for left and right hand-side.  
\*裝備2支轉向拉桿。

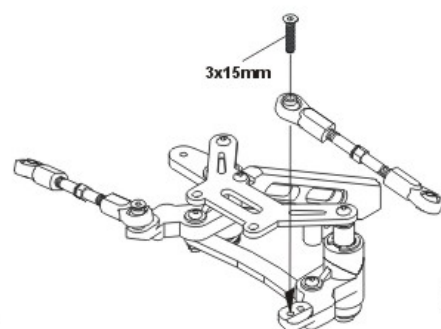


## 14 ASSEMBLY OF THE SERVO SAVER

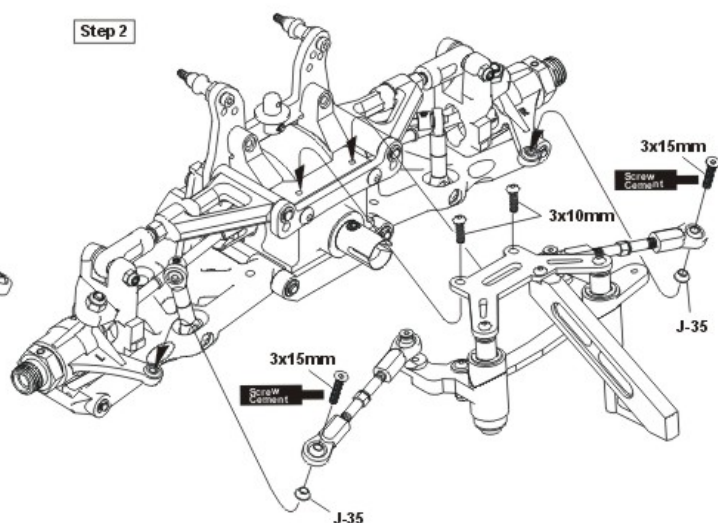
### 組合緩衝組



Step 1



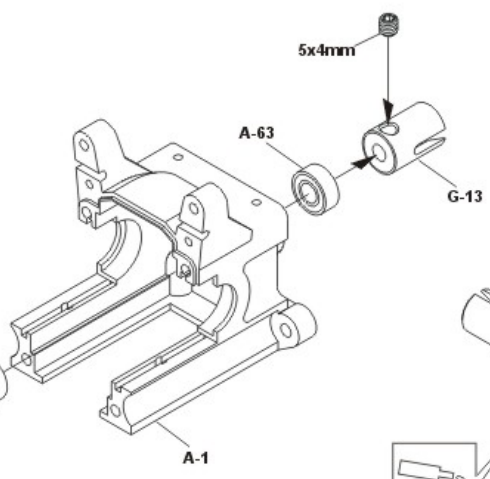
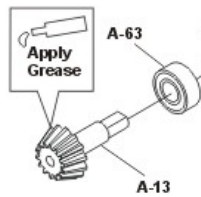
Step 2



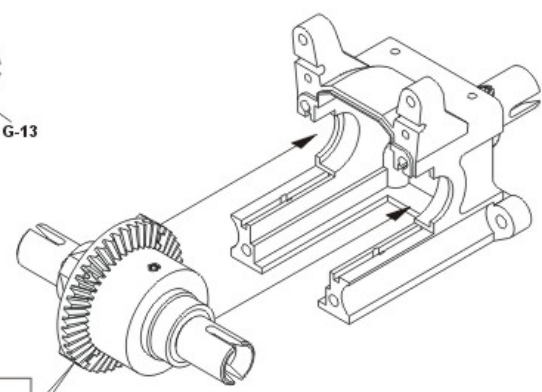
## 15 ASSEMBLY OF THE REAR GEAR BOX

組合後齒輪箱

Step 1



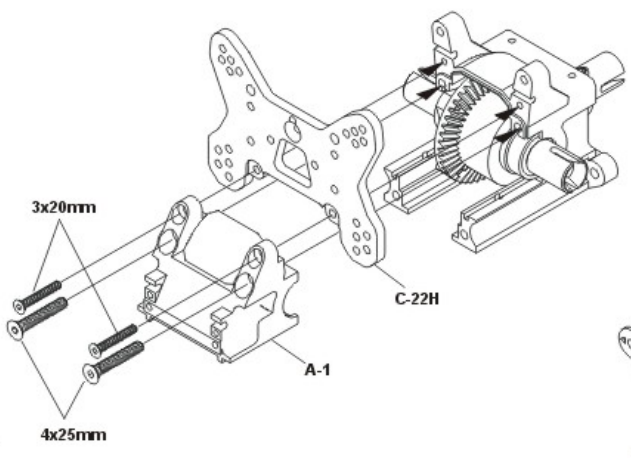
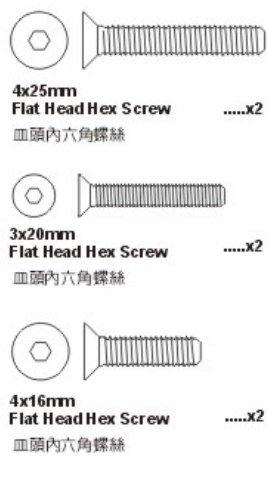
Step 2



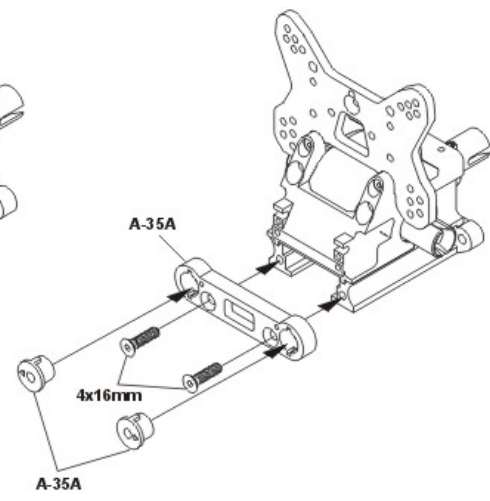
## 16 ASSEMBLY OF THE REAR GEAR BOX

組合後齒輪箱

Step 1



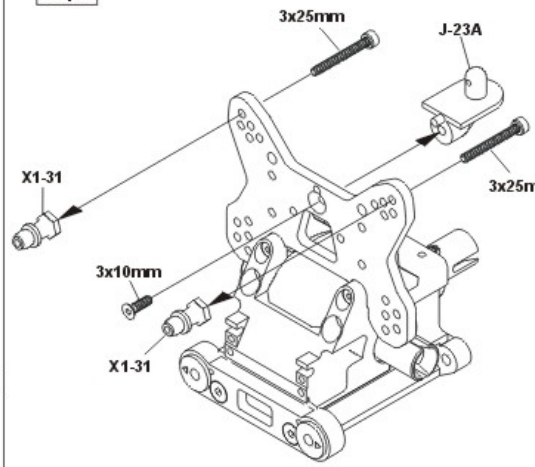
Step 2



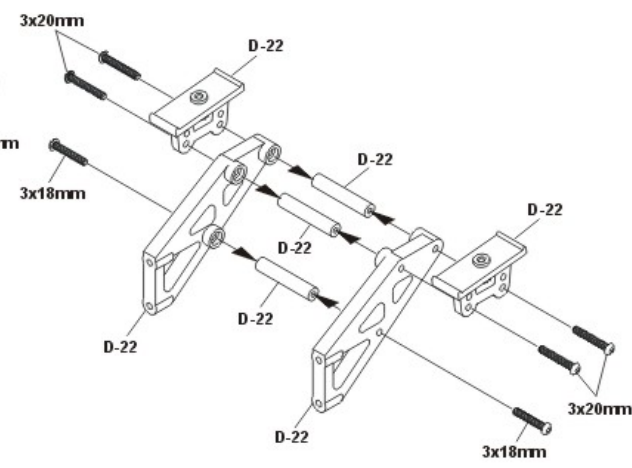
## 17 ASSEMBLY OF THE REAR GEAR BOX

組合後齒輪箱

Step 1

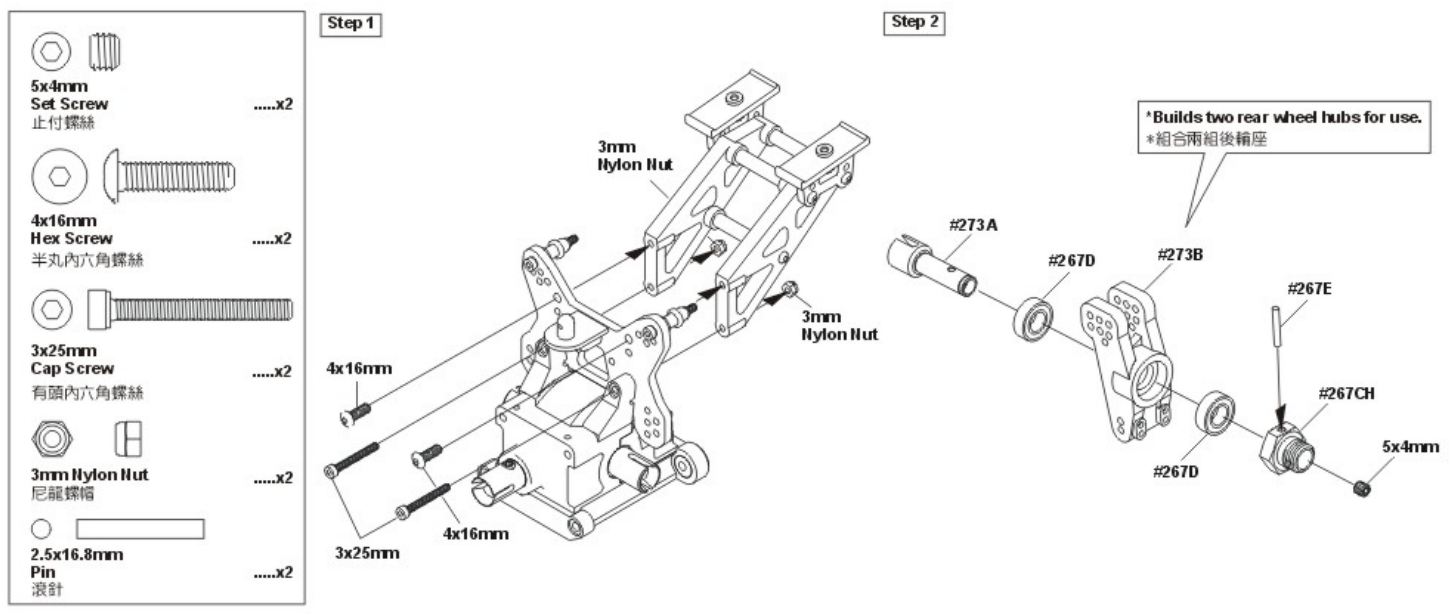


Step 2



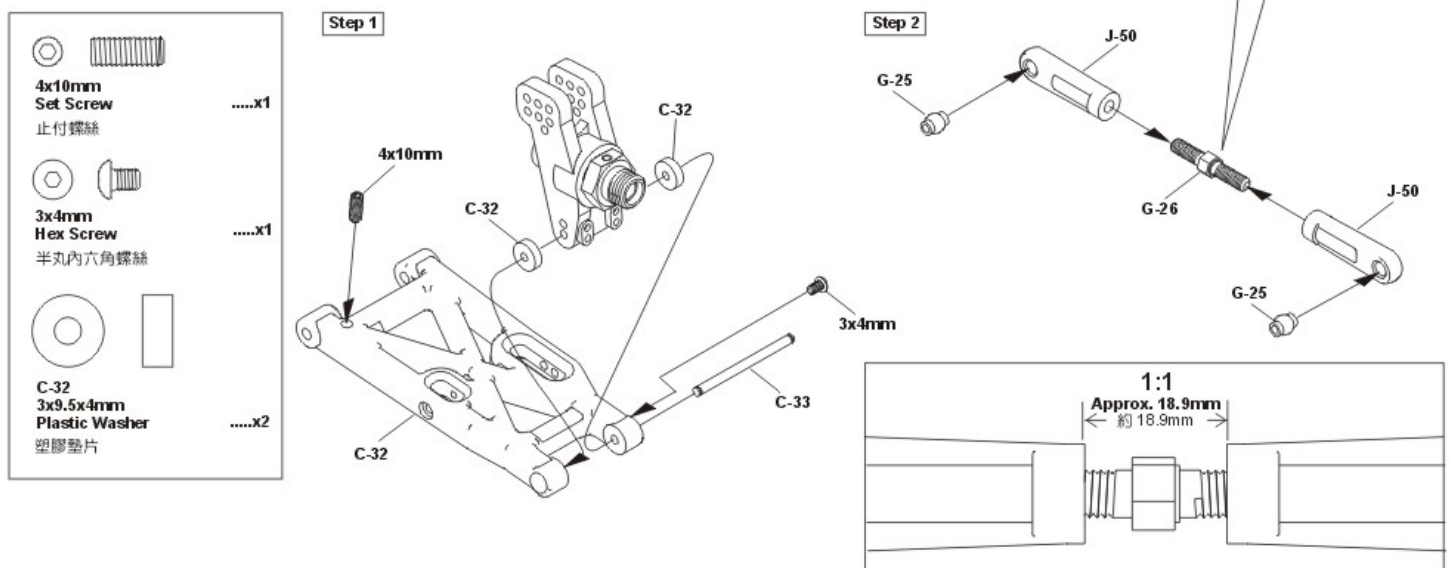
## 18 ASSEMBLY OF THE WING STAY AND REAR WHEEL HUB

組合後定風翼架與後輪座



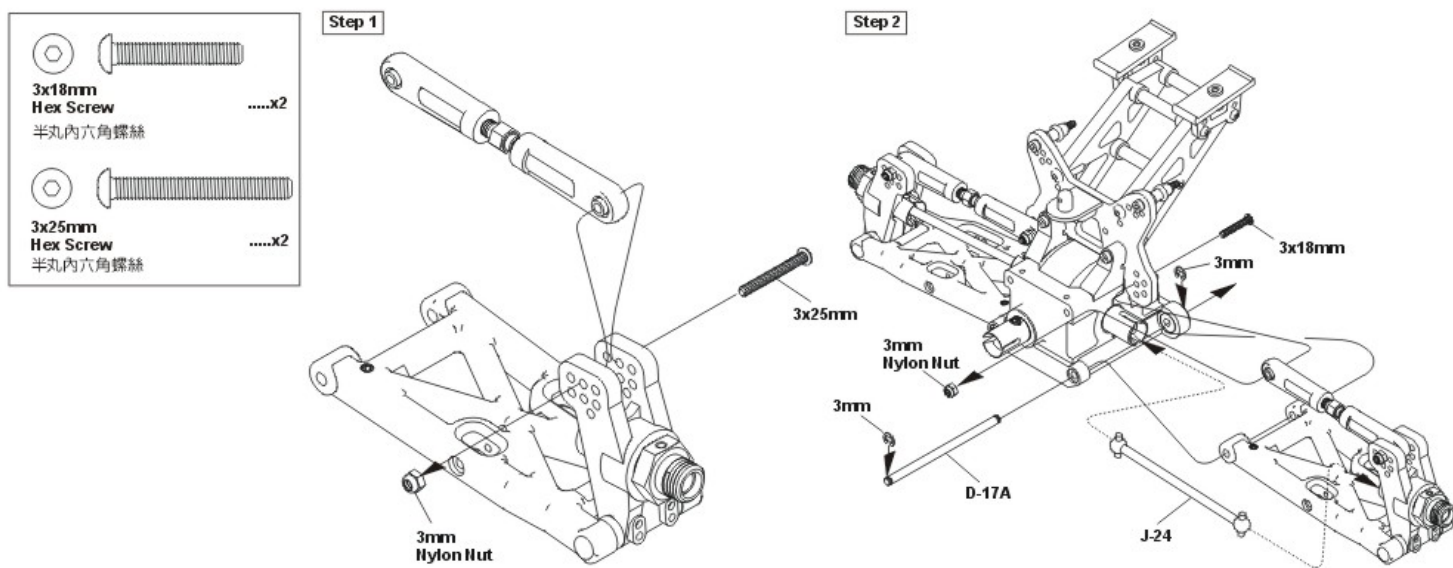
## 19 ASSEMBLY OF THE REAR WHEEL HUB AND UPPER ARM ROD

組合後輪座與後上擺臂



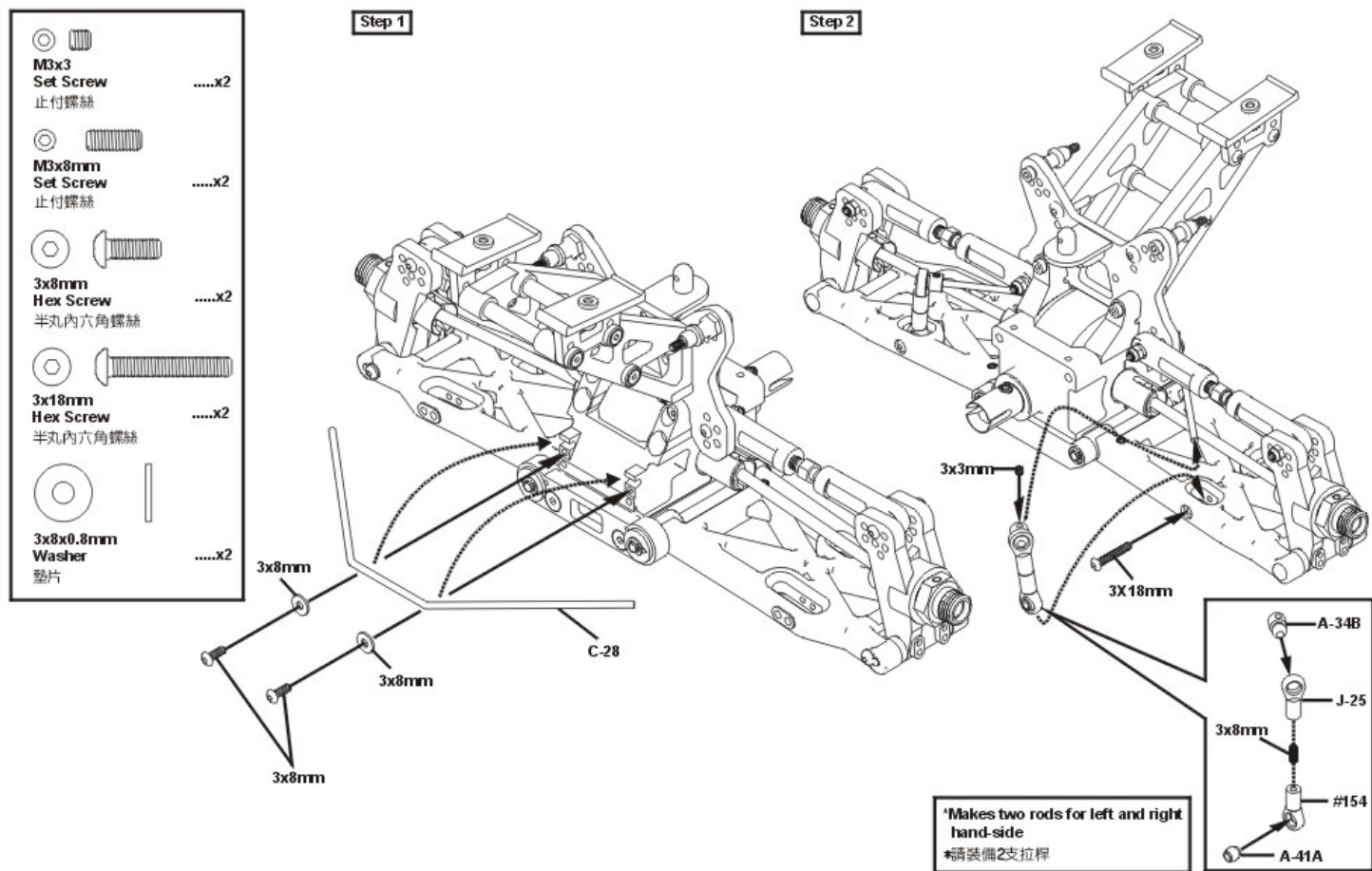
## 20 ASSEMBLY OF THE REAR LOW ARMS INTO GEAR BOX

組合後下擺臂



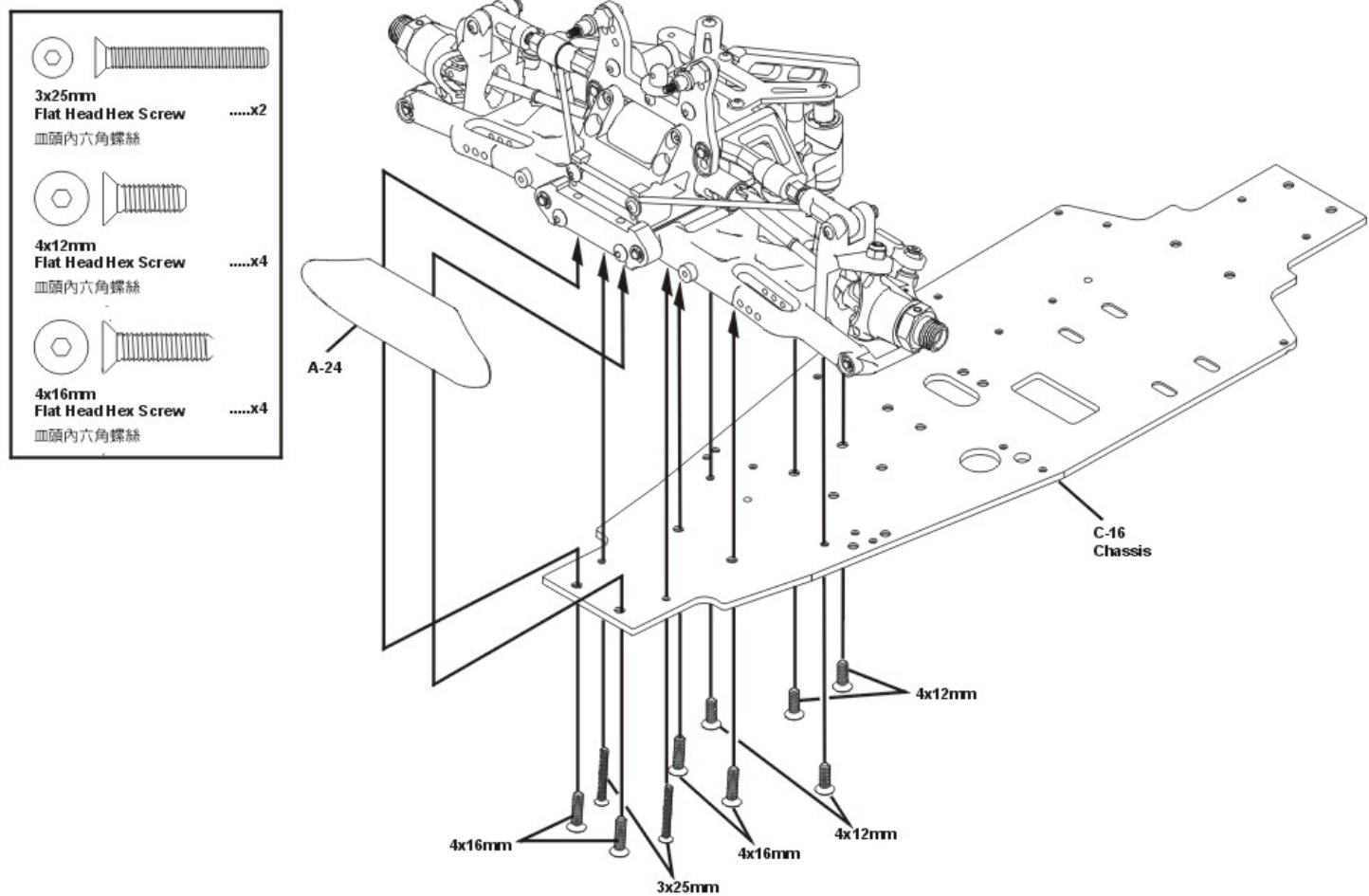
## 21 ASSEMBLY OF THE FRONT STABILIZER

組合平衡桿



## 22 ASSEMBLY OF THE FRONT GEAR BOX ONTO CHASSIS

組合前齒輪箱至底盤



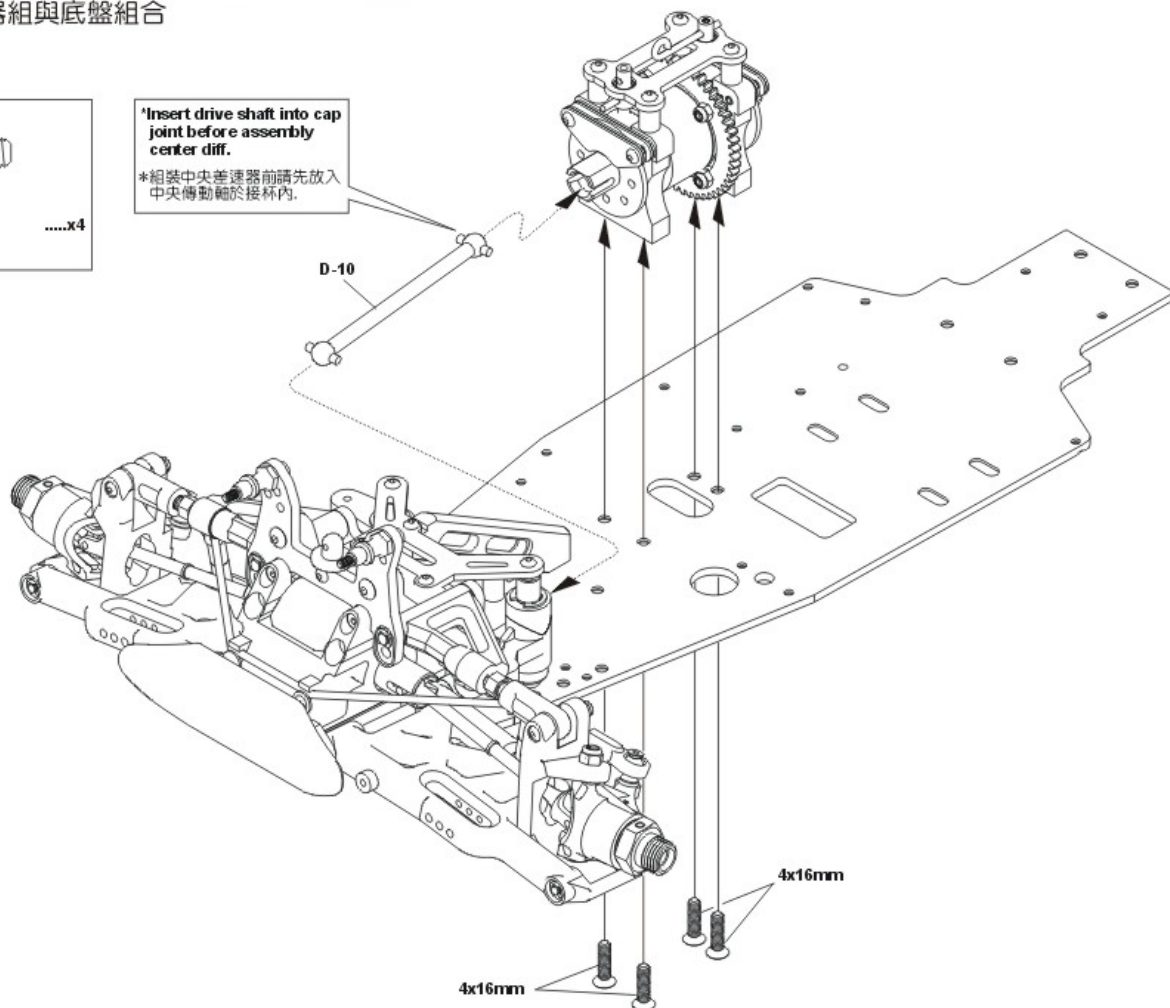
## 23 ASSEMBLY OF THE CENTER DIFF. ONTO CHASSIS

組合中央差速器組與底盤組合



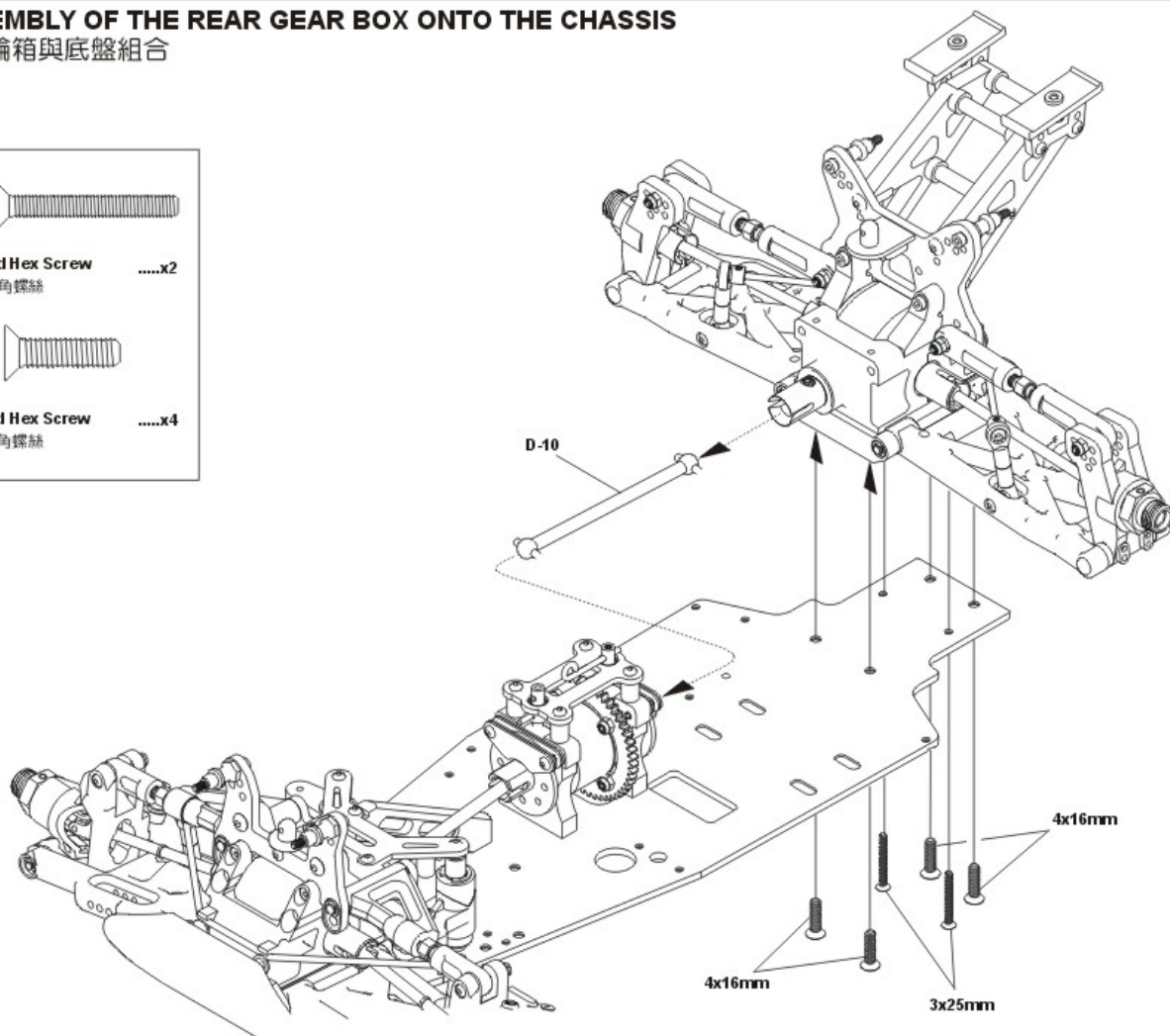
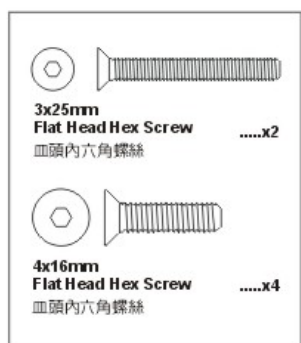
Insert drive shaft into cap joint before assembly center diff.

\*組裝中央差速器前請先放入中央傳動軸於接杯內。



## 24 ASSEMBLY OF THE REAR GEAR BOX ONTO THE CHASSIS

後齒輪箱與底盤組合

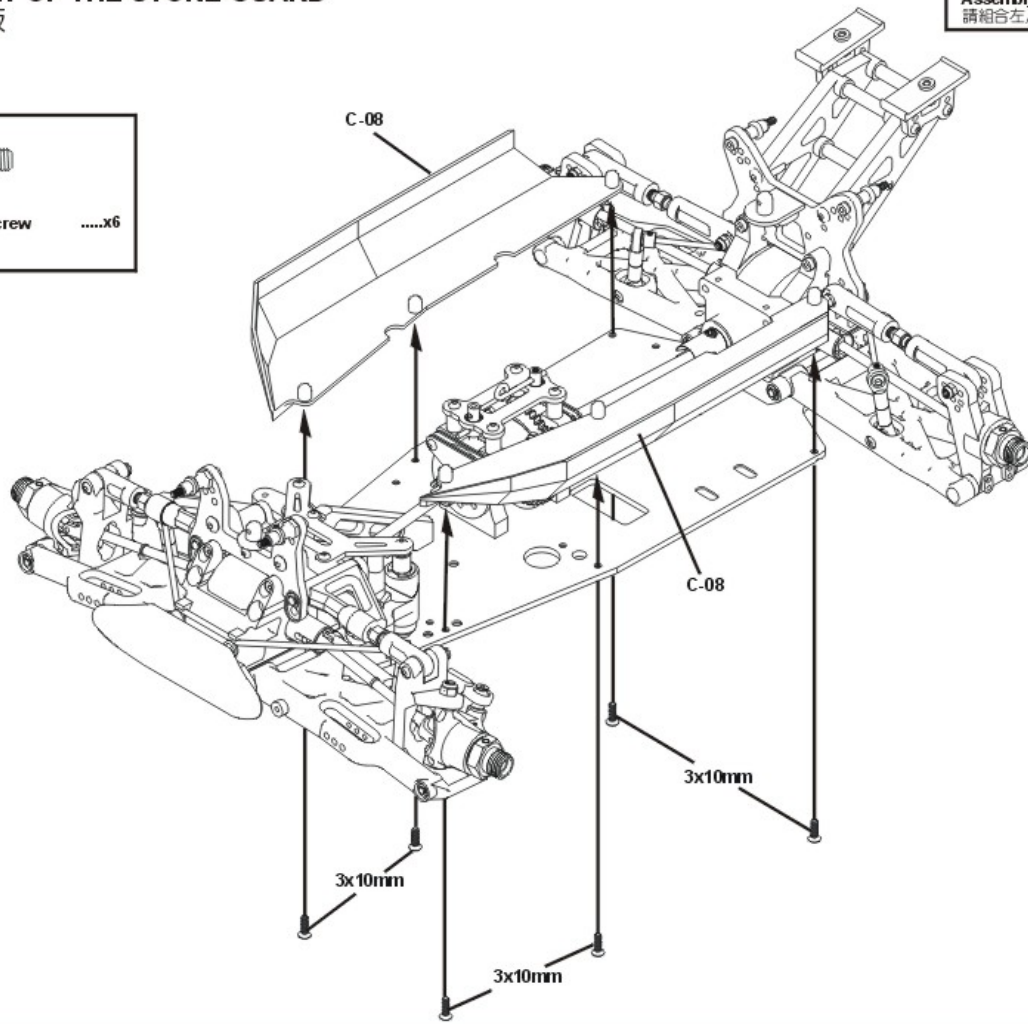




## 25 ASSEMBLY OF THE STONE GUARD

組合防撞板

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

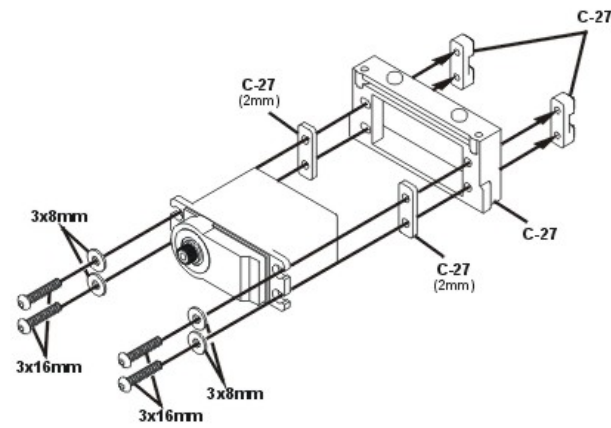


3x10mm  
Flat Head Hex Screw .....x6  
皿頭內六角螺絲

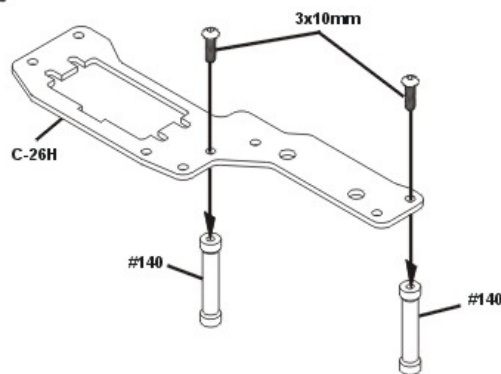
## 26 ASSEMBLY OF THE FRONT SERVO AND RADIO TRAY

組合二樓板與轉向伺服機

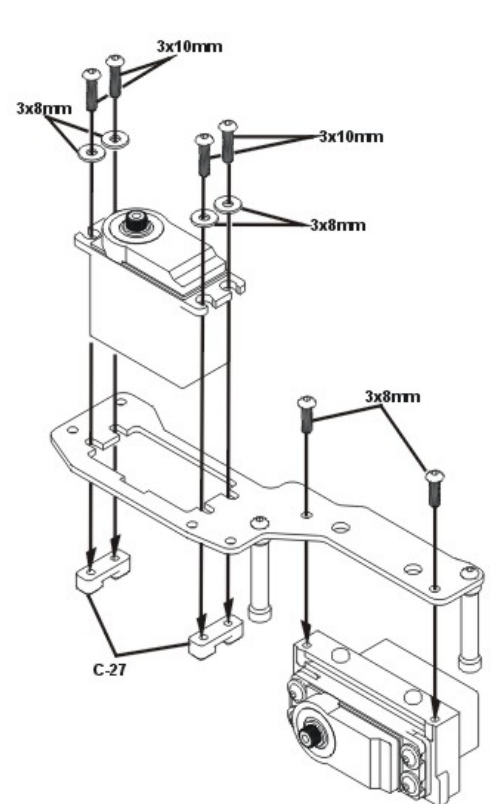
Step 1



Step 2



Step 3



3x8mm  
Hex Screw .....x2  
半丸內六角螺絲

3x10mm  
Hex Screw .....x6  
半丸內六角螺絲

3x16mm  
Hex Screw .....x4  
半丸內六角螺絲

3x8x0.8mm  
Washer .....x8  
墊片

## 27 ASSEMBLY OF THE FRONT RECEIVER BOX AND RADIO TRAY

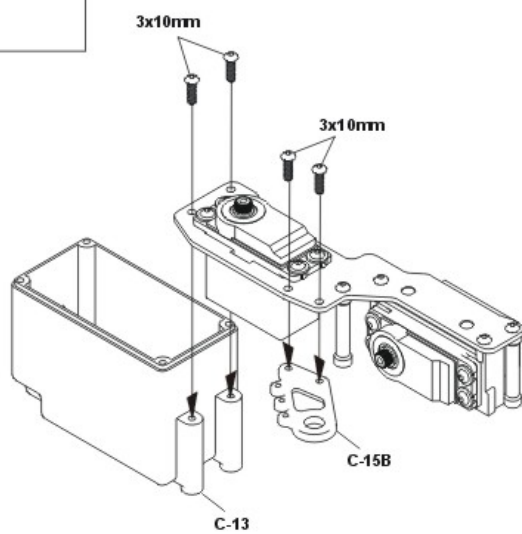
組合防水盒與二樓板



Step 1

\*Put the servo wire into receiver box and connect to receiver.

\*伺服機接頭放入防水盒內並接上接收機。



Step 2

3x10mm

A-56

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

3x10mm

C-13

#150BK

\* Connect the switch wire to receiver.

\*組裝時請將開關電源線接至接收機。

\*Use the original battery case or rechargeable hump pack battery.

\*請使用標準電池盒或者充電式錐筒電池。

\*Connect battery wire to switch.

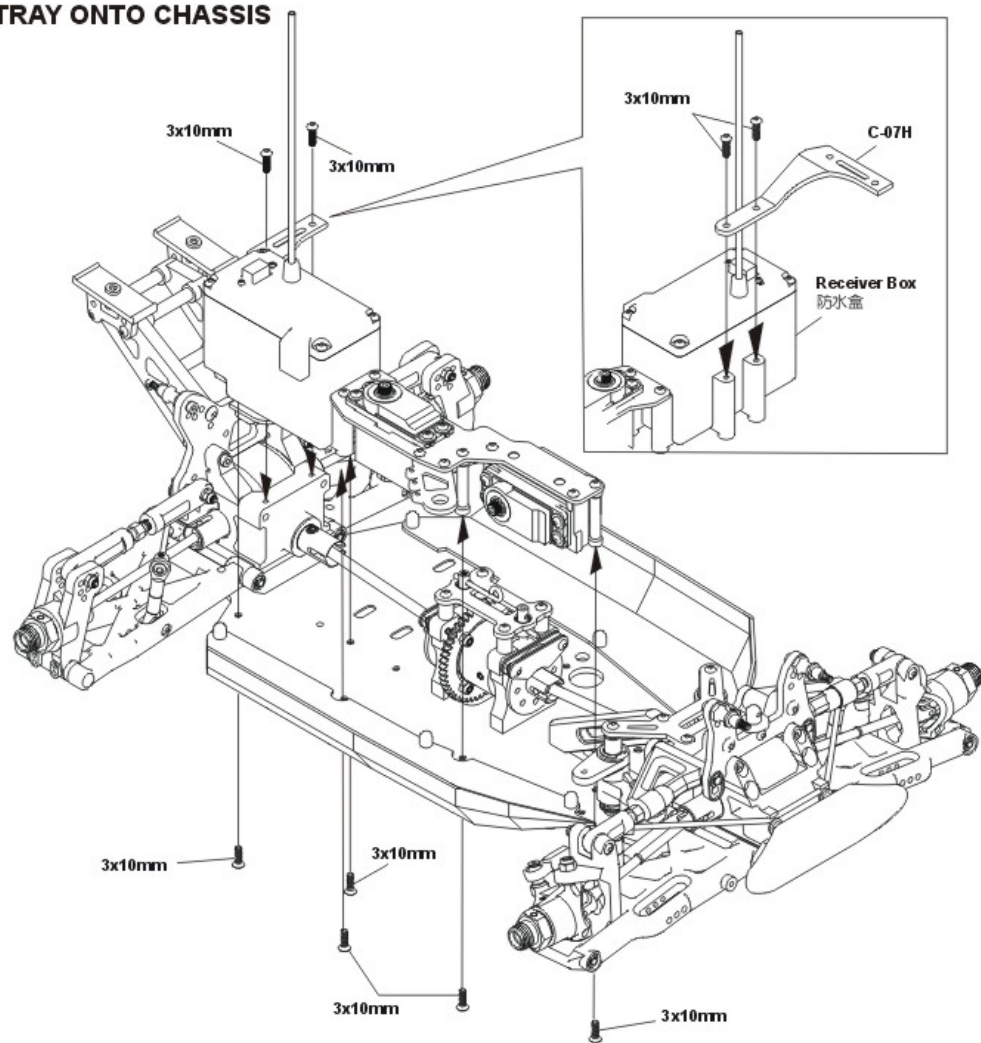
\*電池盒電源線請接至開關。

Battery

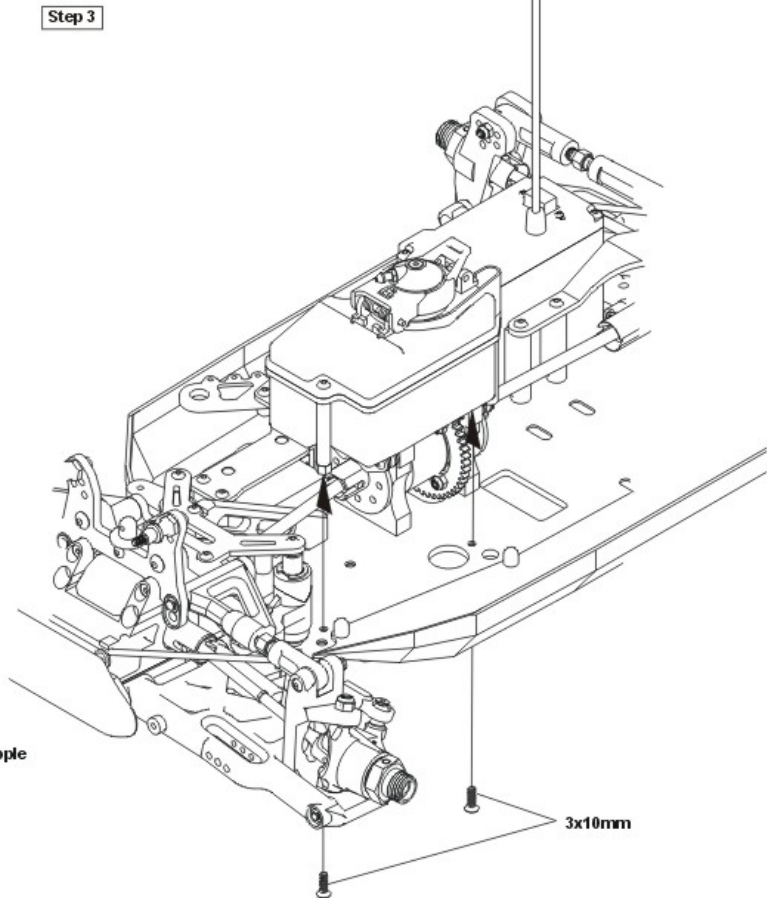
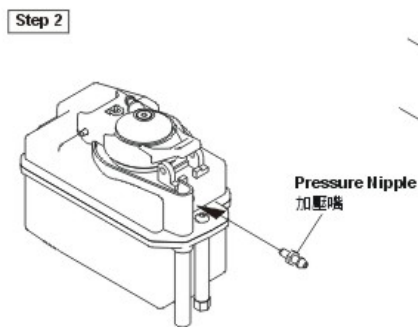
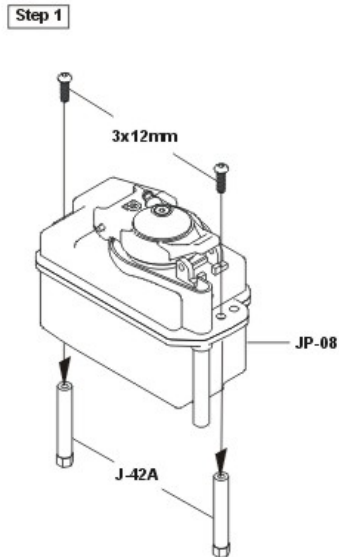
電池

## 28 ASSEMBLY OF THE RADIO TRAY ONTO CHASSIS

組合二樓板至底盤

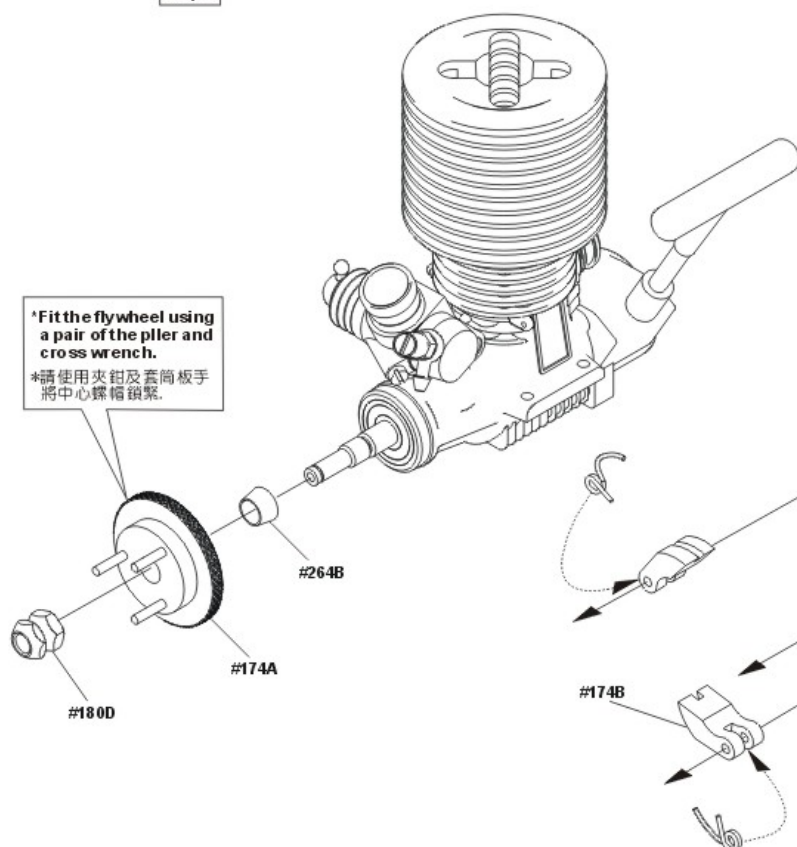


## 29 ASSEMBLY OF THE FUEL TANK ONTO CHASSIS 組合油箱至底盤

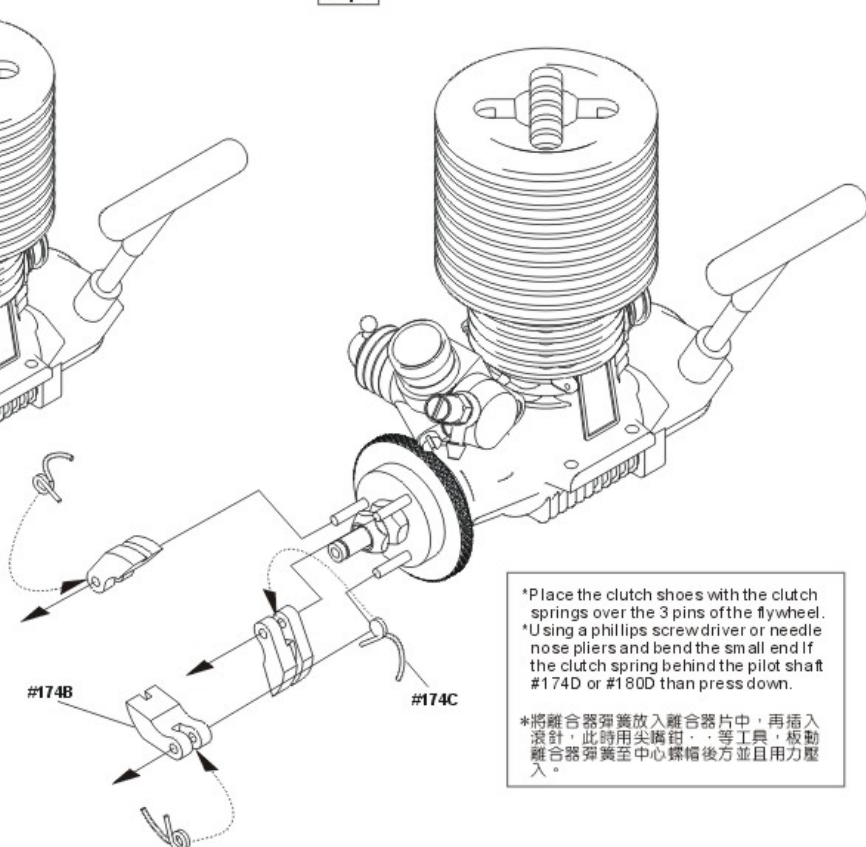


## 30 ASSEMBLY OF THE CLUTCH 組合離合器

**Step 1**



**Step 2**



# 31 ASSEMBLY OF THE CLUTCH 組合離合器

Step 3



3x16mm  
Cap Screw .....x4  
有頭內六角螺絲



3x5mm  
Cap Screw .....x1  
有頭內六角螺絲



A-47A  
5x10x4mm  
Ballbearings .....x2  
培林



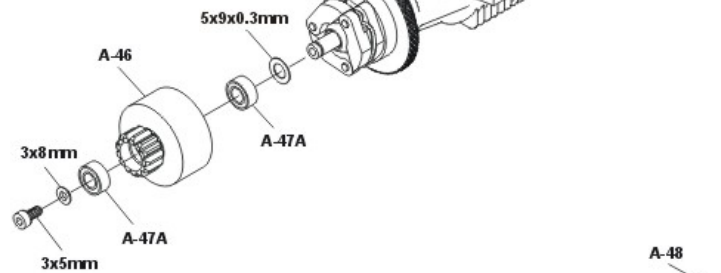
5x9x0.3mm  
Washer .....x1  
墊片



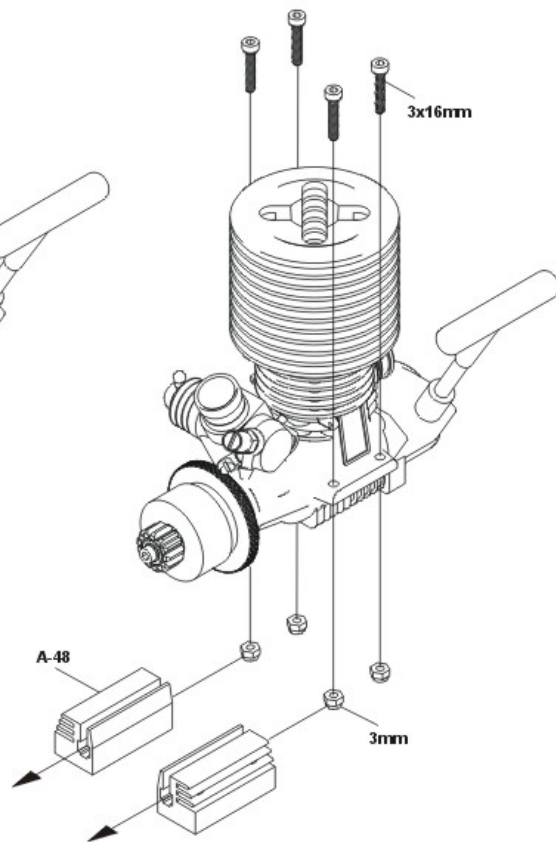
3x8x0.8mm  
Washer .....x1  
墊片



3mm Nylon Nut .....x4  
尼龍螺帽



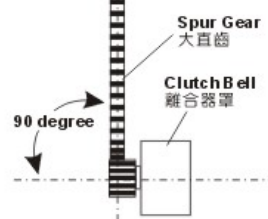
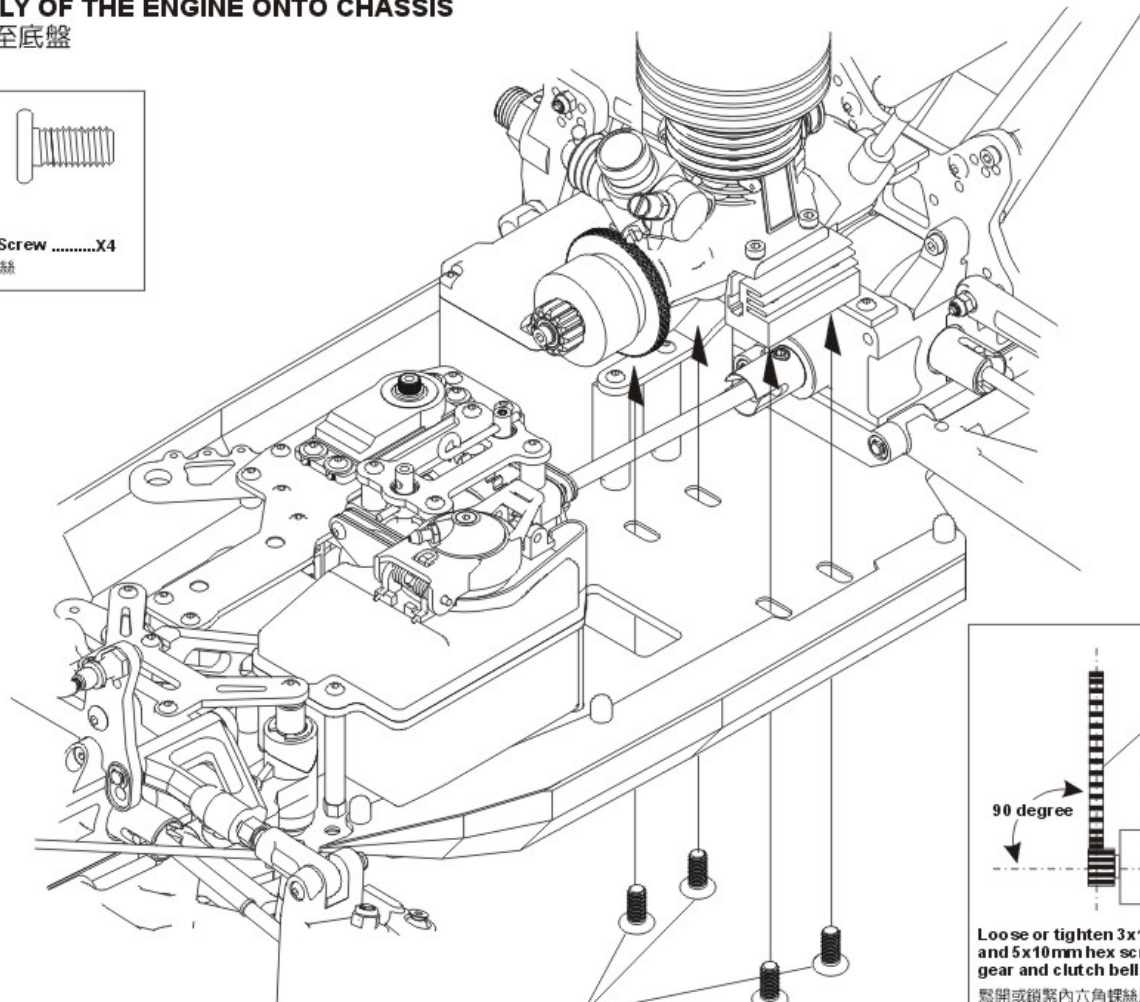
Step 4



# 32 ASSEMBLY OF THE ENGINE ONTO CHASSIS 組合引擎至底盤



#195  
5mm  
Engine Mount Screw .....x4  
內六角引擎座螺絲



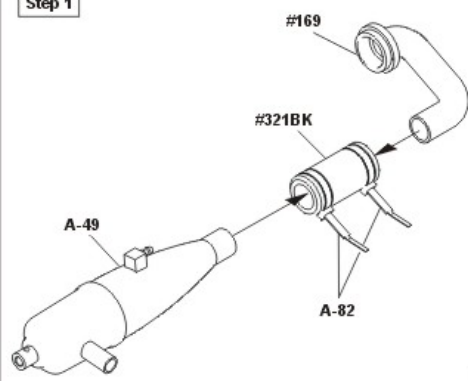
Spur Gear  
大直齒  
Clutch Bell  
離合器罩  
90 degree  
Loose or tighten 3x16mm cap screw  
and 5x10mm hex screw to align spur  
gear and clutch bell gear to 90 degree.  
鬆開或鎖緊內六角螺絲以便調整齒輪間隙。

#195

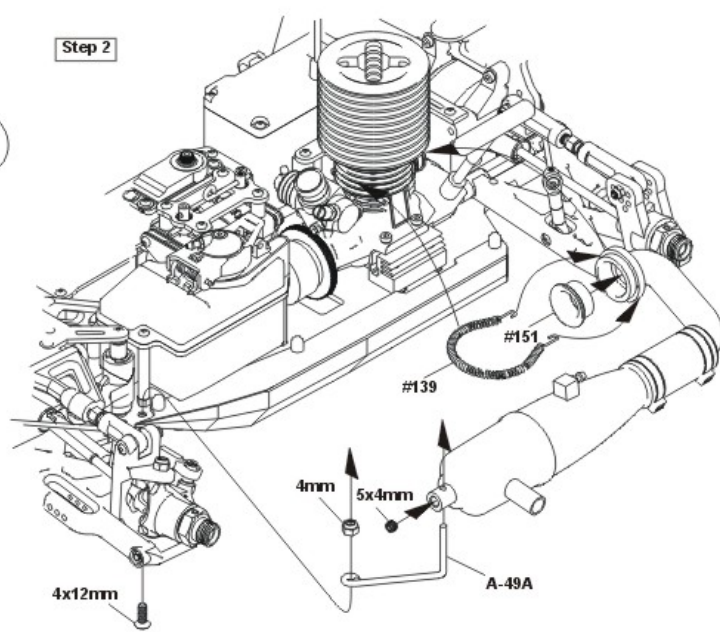
### 33 ASSEMBLY OF THE MUFFLER INTO ENGINE

組合排氣管至引擎

Step 1



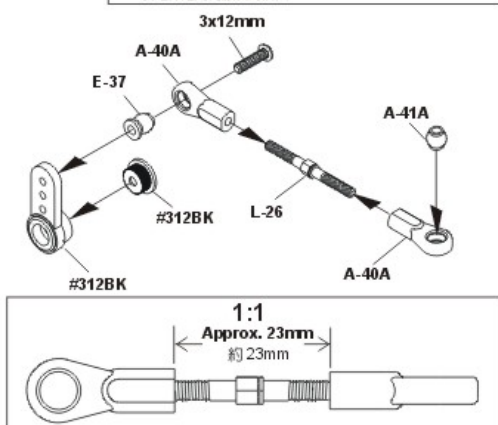
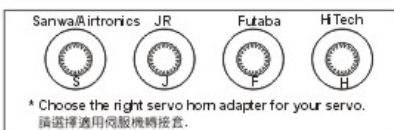
Step 2



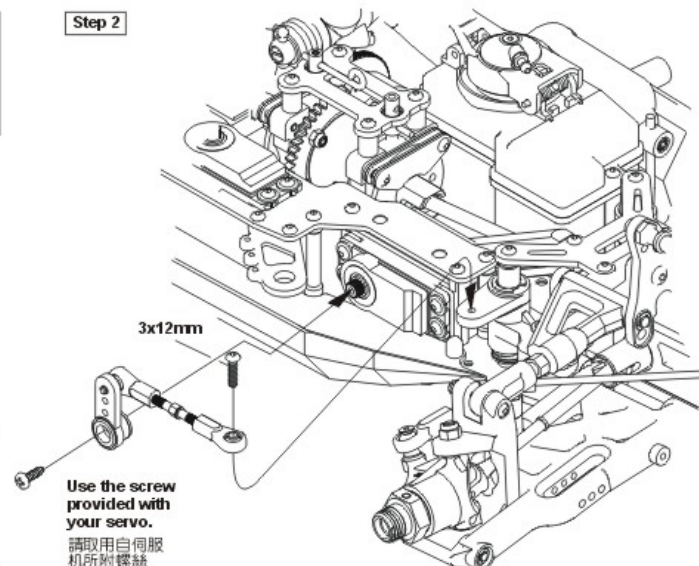
### 34 ASSEMBLY OF THE FRONT STEERING ROD

組合轉向拉桿

Step 1



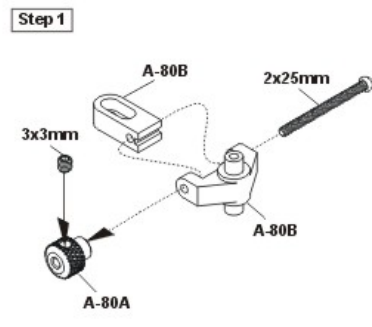
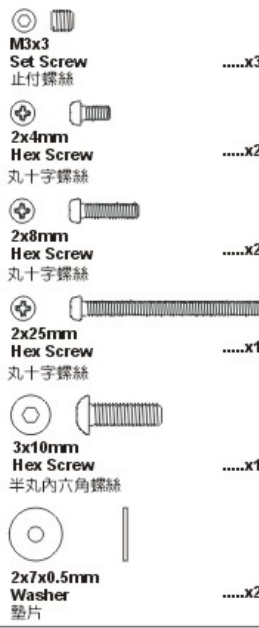
Step 2



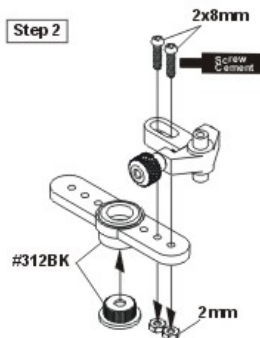
### 35 ASSEMBLY OF THE THROTTLE LINKAGE

組合煞車調整組與油門伺服盤

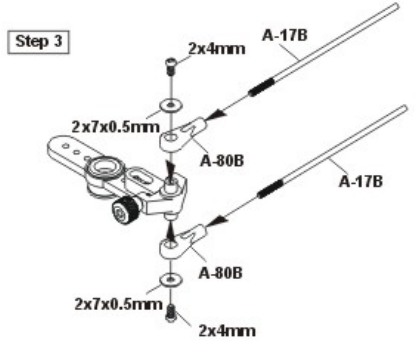
Step 1



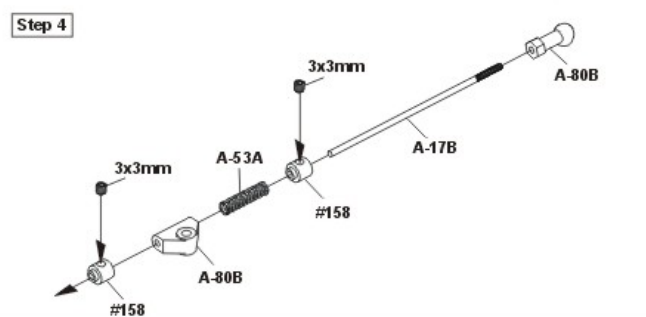
Step 2



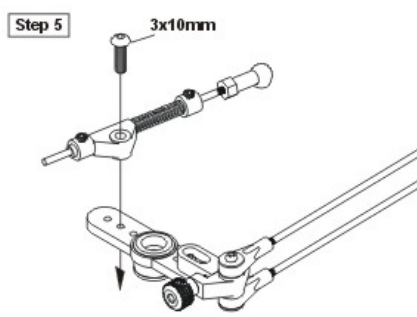
Step 3



Step 4



Step 5



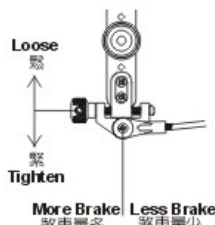
### 36 ASSEMBLY OF THE BRAKE LINKAGE INTO BRAKE LEAVE

組合煞車調整組與油門伺服盤

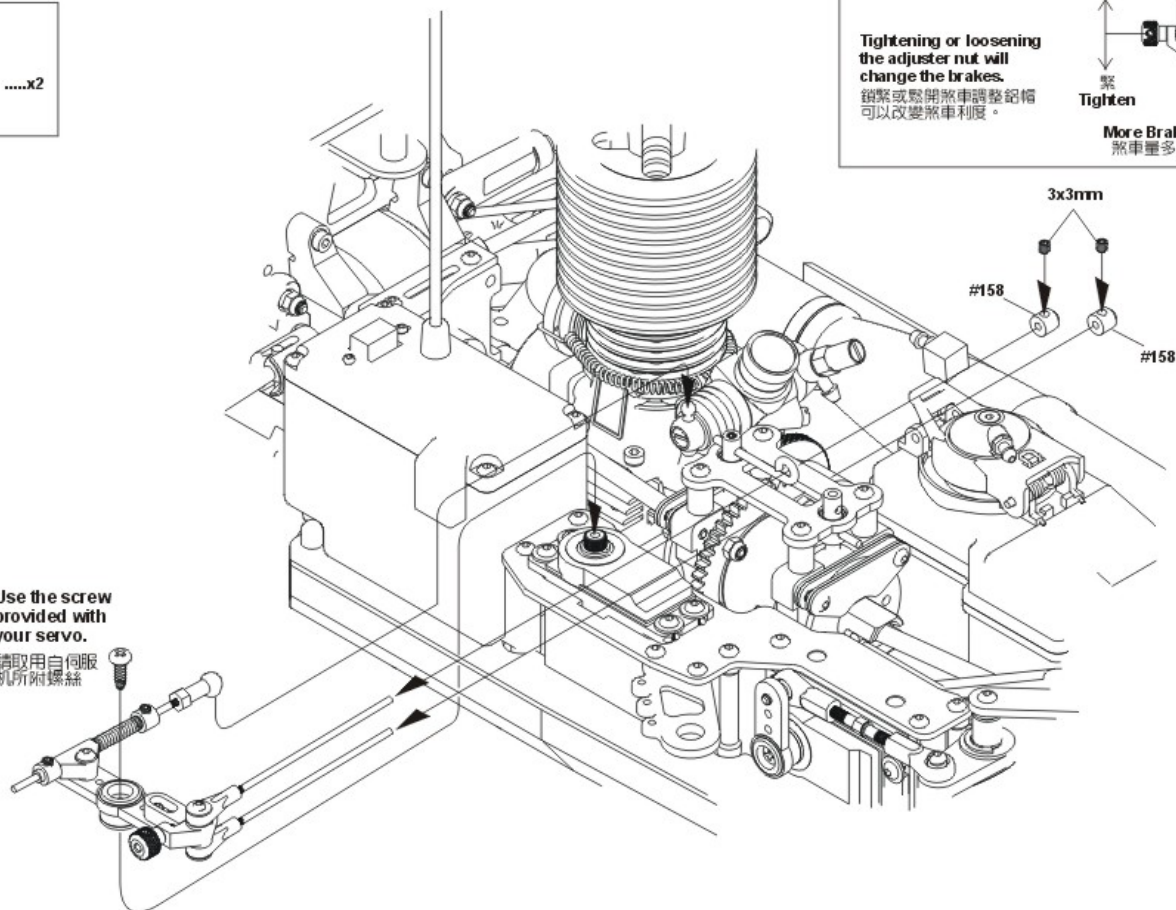
M3x3  
Set Screw .....x2  
止付螺絲

USING BRAKE ADJUSTER NUT  
使用煞車調整鉛帽

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



Use the screw provided with your servo.  
請取用自伺服機所附螺絲



### 37 ADJUSTING THE ENGINE CONTROL LINKAGES

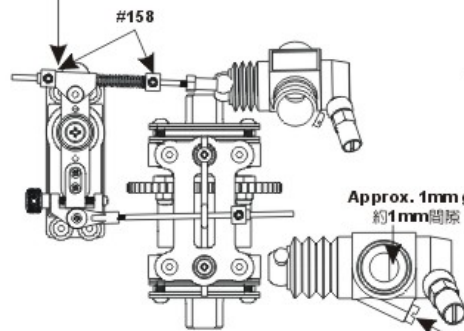
油門/煞車拉桿組調整

(Neutral)  
中立點位置

(Throttle High)  
全速油門位置

(Brake)  
煞車位置

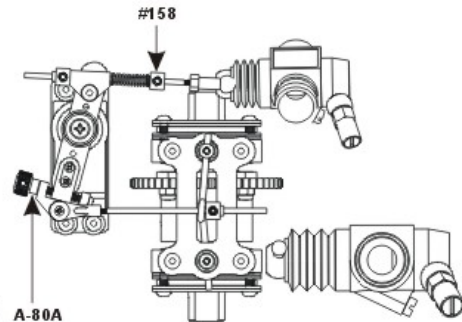
Approx. 0.5mm  
約0.5mm



Approx. 1mm gap  
約1mm間隙

Idling adjusting  
Screw  
怠速調整螺絲

Carburetor is  
Opening fully  
化油器全開



A-80A

- \* 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鉛帽與油門滑座約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 full 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。

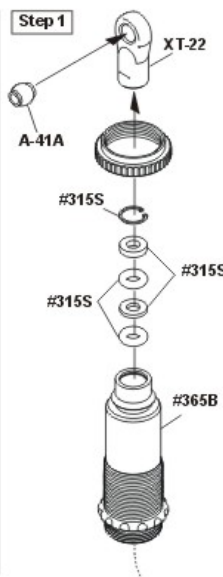
- \* Adjust #158 so the brakes work smoothly.
- \* If the brakes apply too much or not enough, adjust A80A accordingly. Or if available on the Transmitter, adjust the High-End Brake adjustment.
- \* Adjust A-80A to Change the front or Rear Brake.

- \* 調整彈簧鉛帽使煞車動作滑順。
- \* 如果煞車不足或過度，請適度調整#158鉛帽位置，或是遙控器有煞車行程調整功能，也可使用調整煞車位置。
- \* 調整A-80A調整鉛帽，改變前/後煞車力度。

### 38 ASSEMBLY OF THE FRONT SHOCKS

#### 組合前避震器

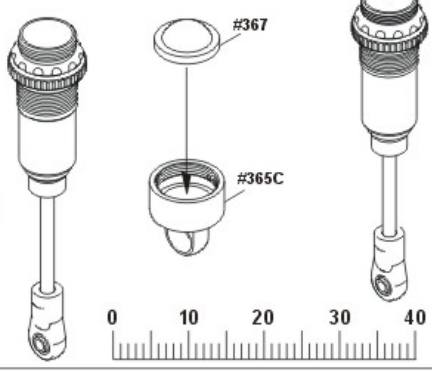
- #315S 1mm Washer .....x2 墊片
- #315S 2mm Washer .....x2 墊片
- #315S 3.5mm O-Ring .....x4 O 環
- 2.6x5mm Washer .....x4 墊片



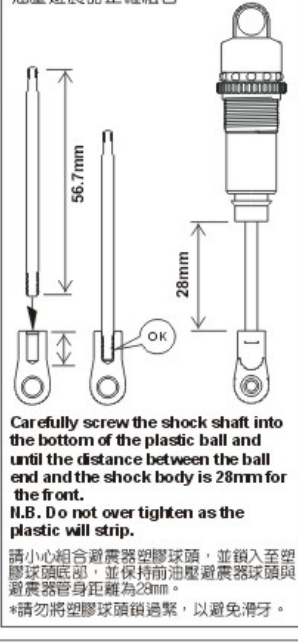
#### Step 2

1. Pull down piston and pour oil into shock cylinder.
2. To remove air bubbles by slowly moving piston up and down.
3. Pull down piston, attach pressure top and shock oil overflow with tissue paper.

**Fill the shocks with oil.**  
加入避震油



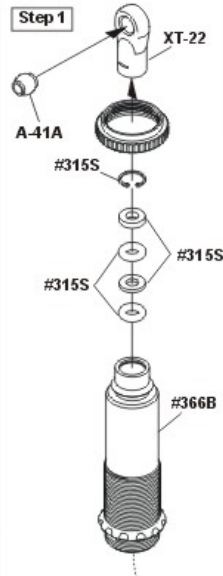
#### CORRECT SHOCK ASSEMBLY



### 39 ASSEMBLY OF THE REAR SHOCKS

#### 組合後避震器

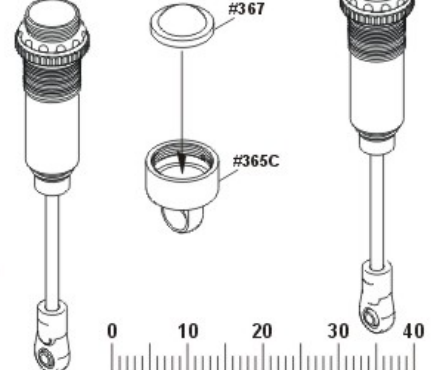
- #315S 1mm Washer .....x2 墊片
- #315S 2mm Washer .....x2 墊片
- #315S 3.5mm O-Ring .....x4 O 環
- 2.6x5mm Washer .....x4 墊片



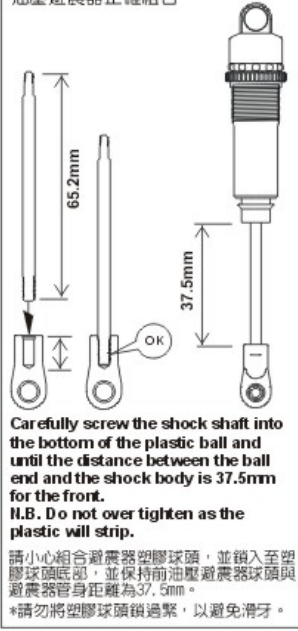
#### Step 2

1. Pull down piston and pour oil into shock cylinder.
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**Fill the shocks with oil.**  
加入避震油



#### CORRECT SHOCK ASSEMBLY



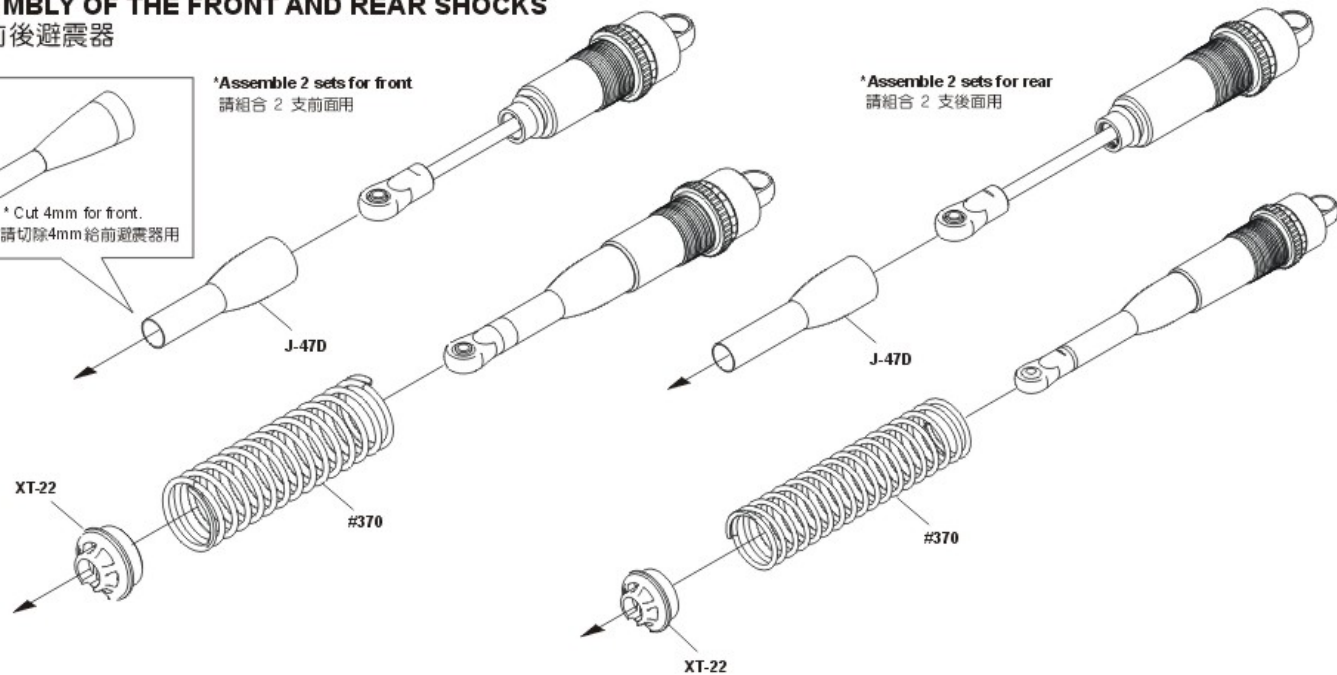
### 40 ASSEMBLY OF THE FRONT AND REAR SHOCKS

#### 組合前後避震器



\* Assemble 2 sets for front  
請組合 2 支前面用

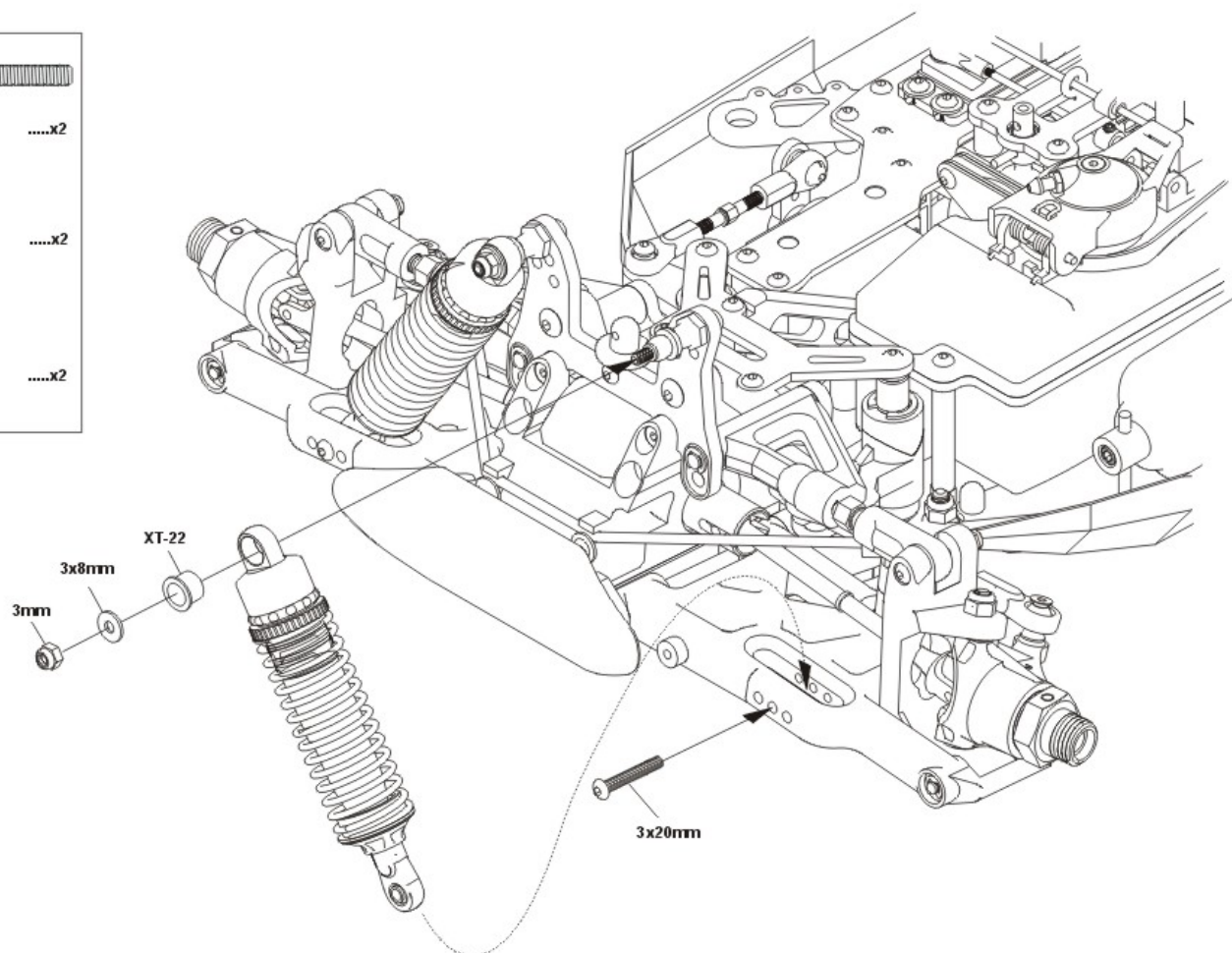
\* Assemble 2 sets for rear  
請組合 2 支後面用



## 41 ASSEMBLY OF THE FRONT SHOCK ABSORBER

組合前避震器與油壓架

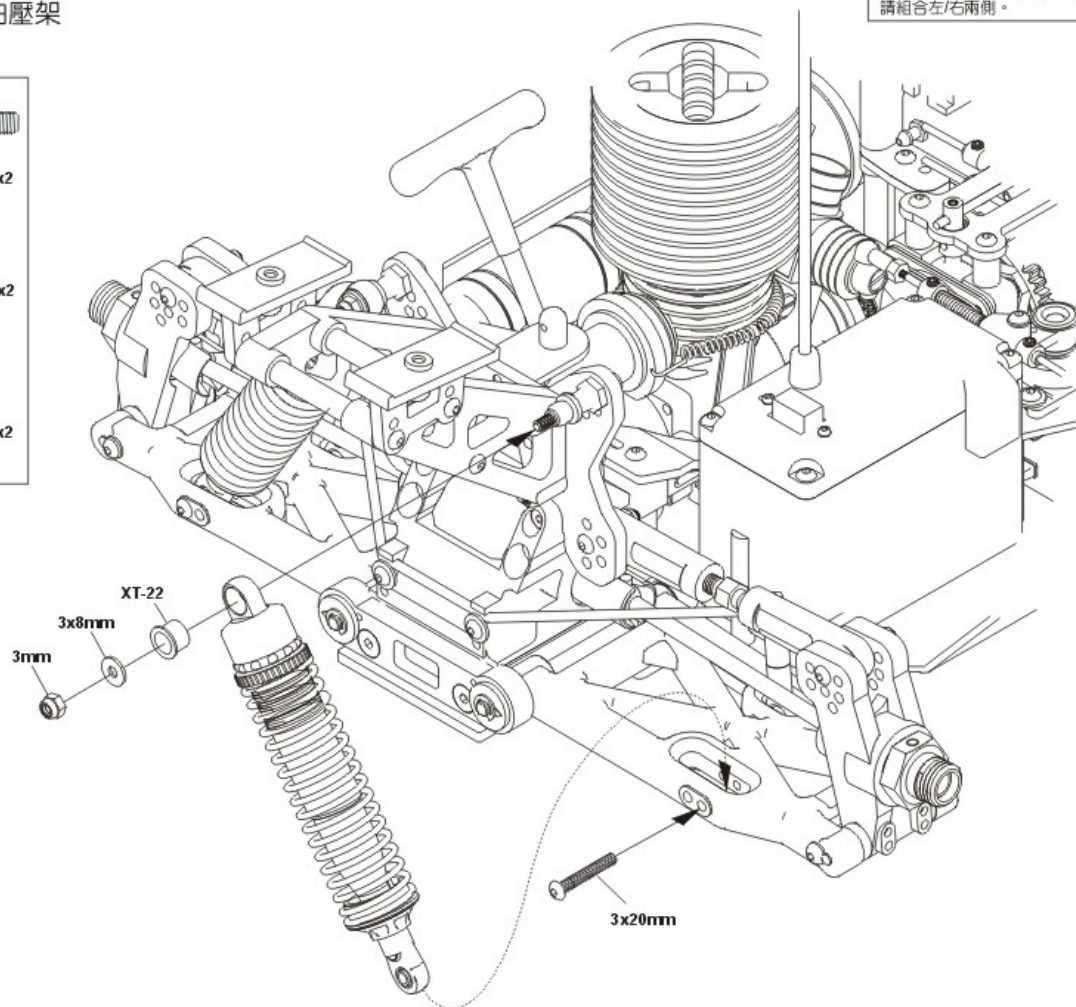
Assembly for both right and left side.  
請組合左/右兩側。



## 42 ASSEMBLY OF THE REAR SHOCK ABSORBER

組合後避震器與油壓架

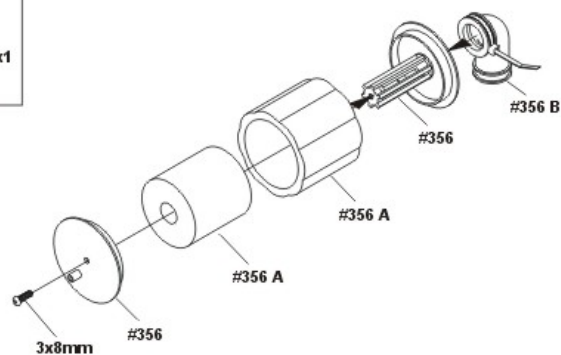
Assembly for both right and left side.  
請組合左/右兩側。



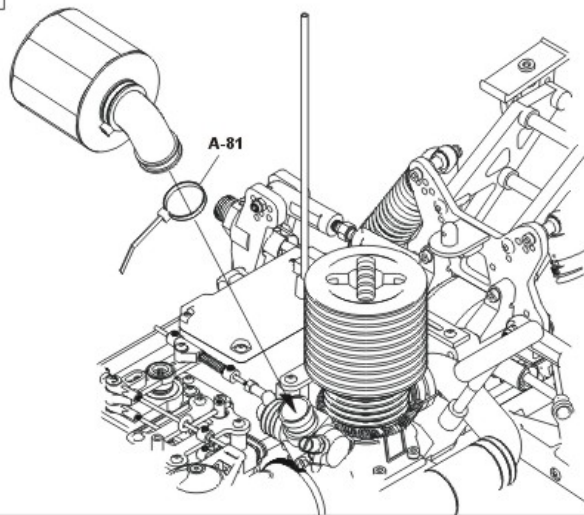


## 43 ASSEMBLY OF THE AIR FILTER 組合空氣濾清器

Step 1



Step 2

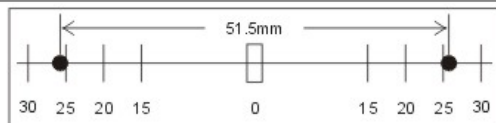
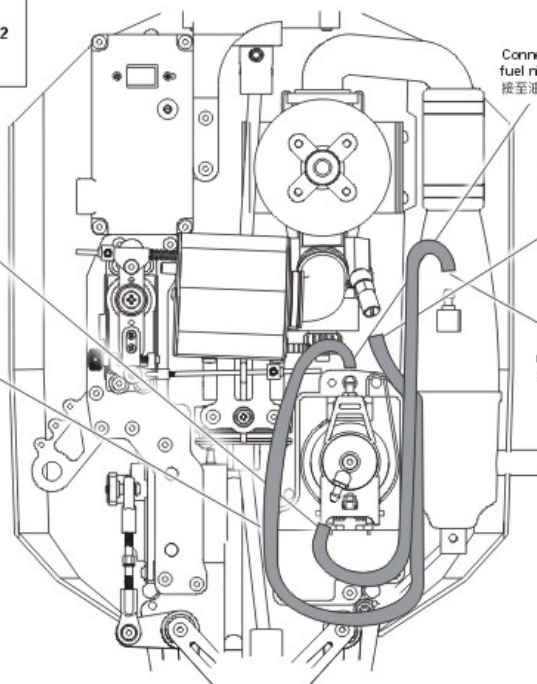


## 44 ASSEMBLY OF THE FUEL TUBE AND WING 組合油管與定風翼架



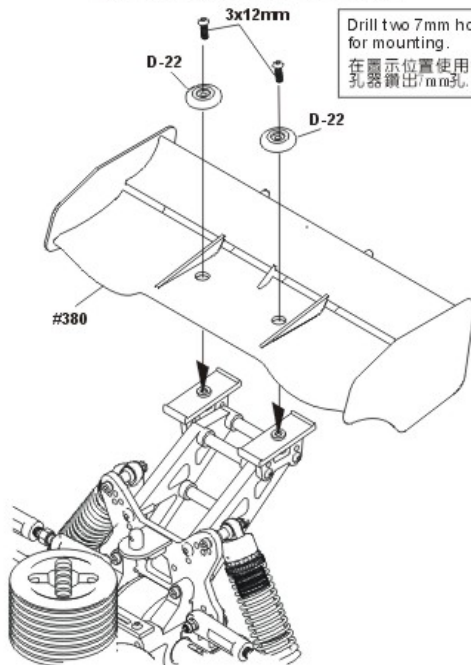
Connect to fuel tank ripple.  
接至油箱加壓嘴

#159  
Fuel Tube  
油管



Check the hole spacing on the underside.  
依據定風翼背面指示尺寸做出正確孔位。

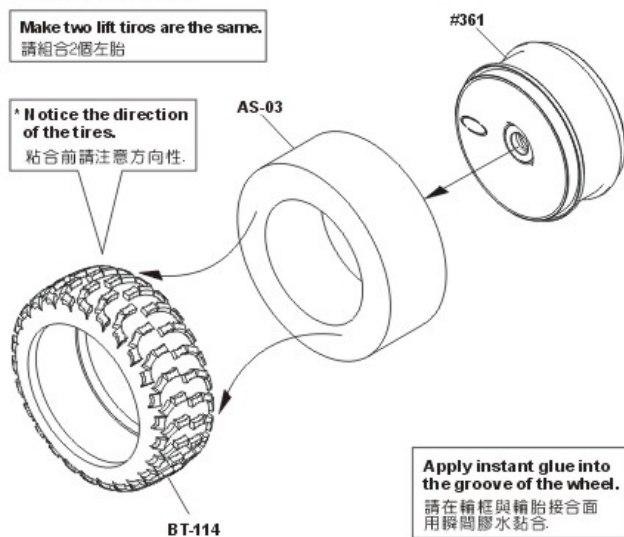
Drill two 7mm holes  
for mounting.  
在指示位置使用鑽  
孔器鑽出7mm孔。



## 45 ASSEMBLY OF THE TIRES AND WHEELS 組合輪圈與輪胎

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

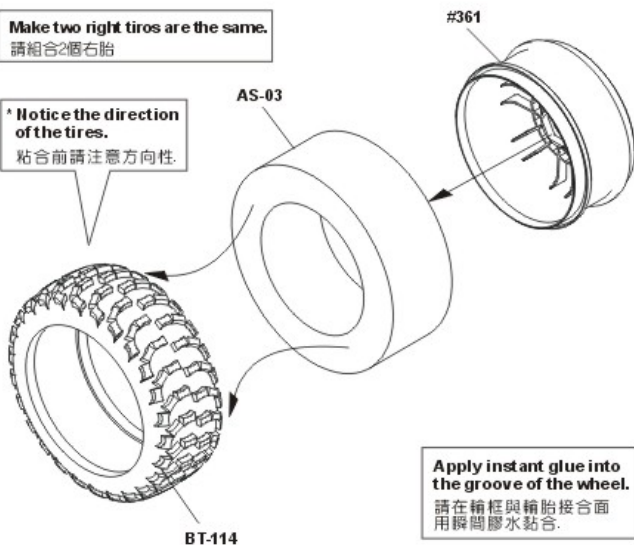
\* Notice the direction of the tires.  
粘台前請注意方向性。



Apply instant glue into the groove of the wheel.  
請在輪框與輪胎接合面  
用瞬間膠水黏合。

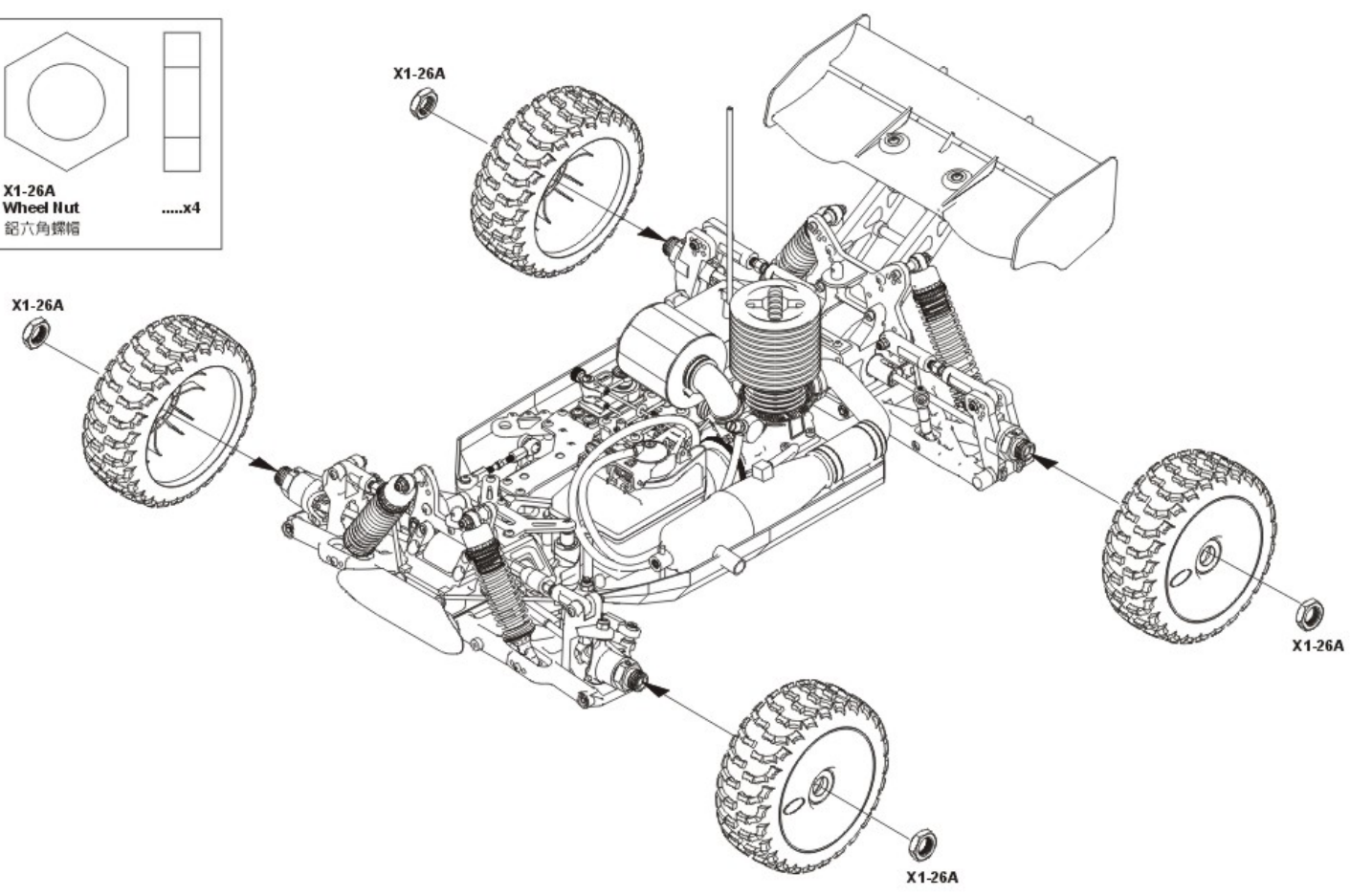
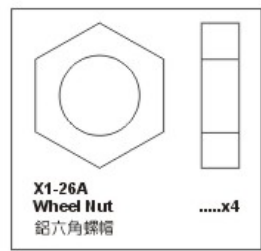
Make two right tires are the same.  
請組合2個右胎

\* Notice the direction of the tires.  
粘台前請注意方向性。

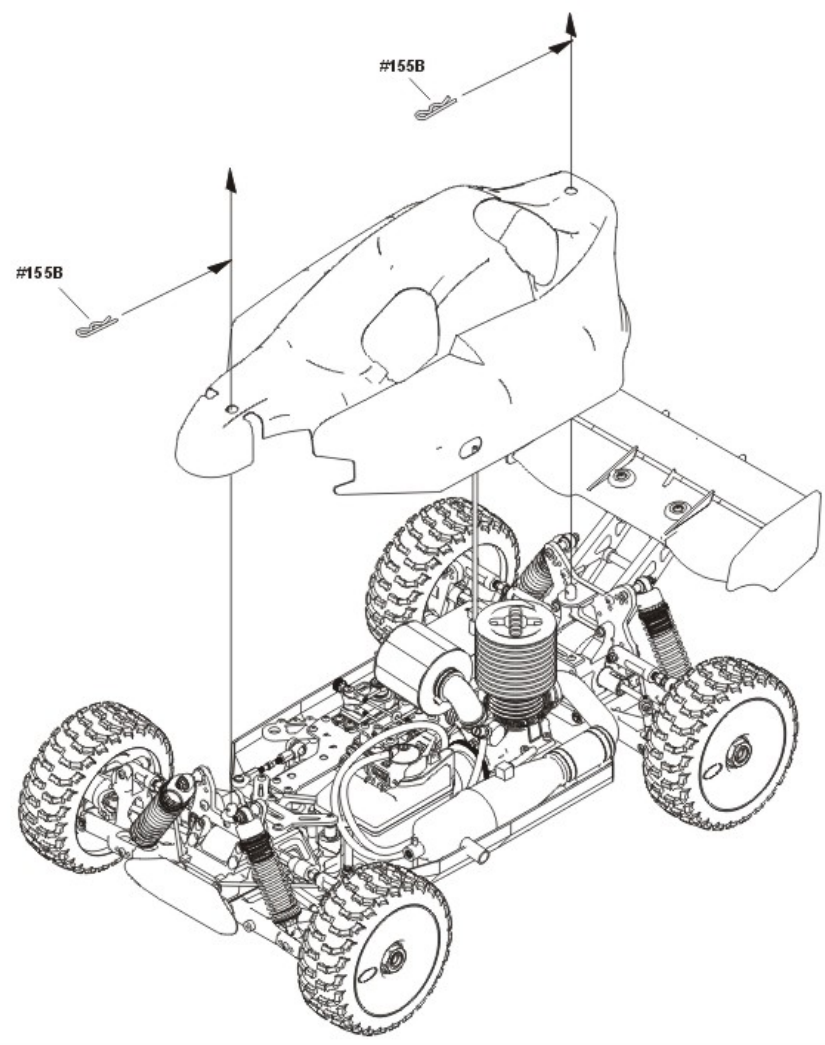


Apply instant glue into the groove of the wheel.  
請在輪框與輪胎接合面  
用瞬間膠水黏合。

**46 ASSEMBLY OF THE TIRE ONTO FRONT KNUCKLE AND REAR HUB**  
安裝輪胎至車體

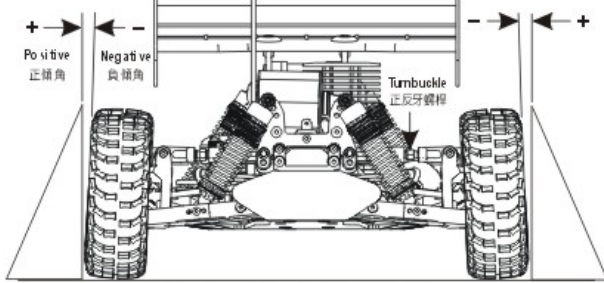


**47 MOUNTING BODY**  
組合車殼



## FRONT CAMBER ANGLE SETTING

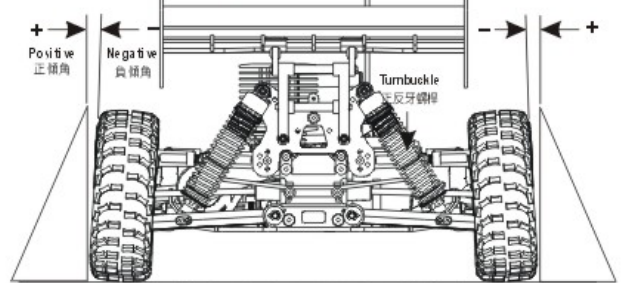
前胎傾角調整



Place the model car on flat surface. Raise the chassis to it's 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 tumbuckle 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

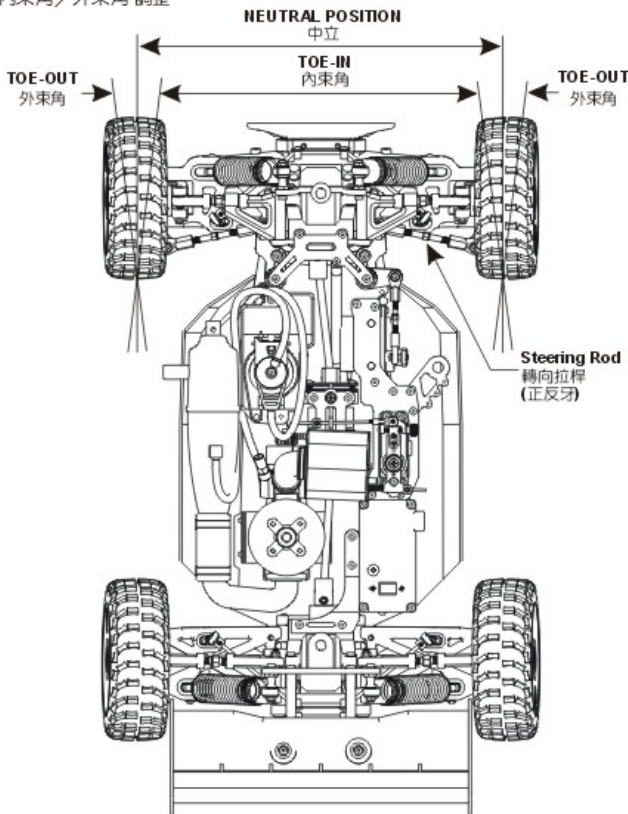
後胎傾角調整



1. 將車體放置於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.

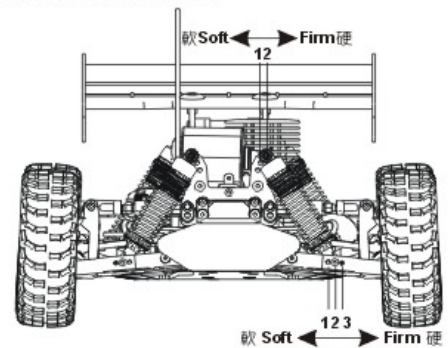
改變前輪轉向拉桿之長度可以改變前輪“內束角”與“外束角”。

1. 將前輪轉向拉桿加長, 前輪會變成內束角。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, 前輪會變成外束角。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種軟變化。  
前油壓避震器裝配位置愈往車體中心, 懸吊反應愈軟。後懸吊系統軟硬不同, 會產生不同轉向特性。  
油壓避震器按裝孔位, 請依場地不同而調整在不同位置。

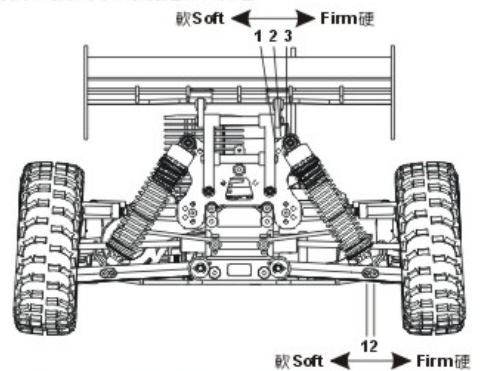


Firm front suspension, less steering. 前輪硬-轉向不足  
Soft front suspension, more steering. 前輪軟-轉向過度

## 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種軟變化。  
後油壓避震器裝配位置愈往車體中心, 懸吊反應愈軟。後懸吊系統軟硬不同, 會產生不同旋地力特性。  
油壓避震器按裝孔位, 請依場地不同而調整在不同位置。



Firm rear suspension, over steering. 後輪硬-轉向過度  
Soft rear suspension, under steering. 後輪軟-轉向不足

## STARTING OF THE ENGINE

起動引擎

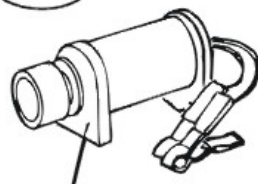
How to start the engine:

1. Turn on transmitter and then receiver.
2. Fill fuel tank with fuel bottle.
3. Connect 1.2V glow plug 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。

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

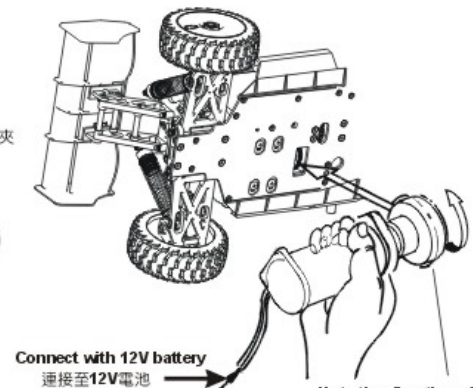
起動器膠圈 (另購)



12V Starter 起動器(另購)



1.2V Glow Plug Starter 1.2V點火電夾 (另購)



Connect with 12V battery 連接至12V電池 (另購)

Note the direction of the starter. 注意起動器旋轉方向。

\* 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。

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。



ULTRA LX-1 零件表

編號	品名	數量	編號	品名	數量
A-01	差速箱	1	G-09	7mm擺臂外端塑膠球頭	6
A-10B	車殼柱(前)	2	G-10	7mm轉向拉桿塑膠球頭	8
A-12	大傘齒(粉末)	1	G-13	接杯	2
A-12S	3x4x4mm 鋼套	5	G-14	緩衝組	1 set
A-13	小傘齒(鋼製)	1	G-14B	緩衝組襯套	2
A-16	前擺固定座	2	G-14C	6mm E扣	4
A-17A	剎車桿	2	G-15H	緩衝組連結板(硬陽)	1
A-17B	剎車拉桿	2	G-16H	三角補強板(硬陽)	1
A-20A	中差座	2	G-19	4x46mm 正反牙	4
A-21A	剎車凸軸	1	G-25	7mm 球形	6
A-21B	5x8mm塑膠培林	2	G-26	5x35mm 正反牙	2
A-24	防撞板	1	G-29	前下擺臂	1 set
A-34B	平衡桿球型	2	J-23A	車殼柱(後)	1
A-35A	後擺臂固定座	1	J-24	93mm傳動軸	2
A-36A	緩衝組彈簧	2	J-25	平衡桿塑膠球頭	4
A-36B	緩衝組銅管	2	J-34	7mm 圓球(黑)	4
A-37	緩衝組(左右各1)	1	J-35	3mm鋁錐型墊片	4
A-38	緩衝組支柱	2	J-42A	油箱塑膠柱	1 set
A-40A	轉向塑膠球頭	6	J-47D	透明黑防塵套	4
A-41A	6mm球型	6	J-47F	M2.5尼龍帽	4
A-46	離合罩 14T	1	J-50	後上臂球頭	4
A-47A	5X10培林	2	J-52Y	定風翼(黃)	1
A-48	引擎座	2	J-56	連結式傳動軸	2
A-49	排氣管	1	JP-08	145cc. 油箱	1
A-49A	排氣管支柱	1	L-26	3x36mm正反牙拉桿	2
A-53A	油門彈簧	2	X1-20	轉向座L.R(鋁)	1 set
A-56	天線管	1	X1-26A	17mm六角螺帽(硬陽)	2
A-62	7X19X6培林	6	X1-27	轉向襯套	4
A-63	6X13X5培林	12	X1-28	大王銷螺絲	4
A-65BH	中差固定鋁片(硬陽)	1	X1-31	一體式避震器上支座	4
A-77C	P5 O-環(橘色)	2	X1-36	C型座 L.R	1模
A-77D	2x12.8 滾針	2	XT-22	避震器塑膠件	1模
A-77E	0.5x26 O-環	1	#139	彎管彈簧	1
A-77G	4x10x0.15mm 墊片	4	#140	二樓板鋁柱	3
A-80A	煞車調整螺帽	1	#150BK	開關蓋(黑)	1
A-80B	煞車組塑膠模	1	#151	排器接嘴	1
A-85	差速器殼(前/後),菊花牙	1	#154	平衡桿塑膠球頭	4
A-86	差速器殼(中),菊花牙	1	#155B	車殼插梢	4
A-87	菊花牙差速齒Lx2, Sx4	1 set	#158	鋁輪檔	6
A-87B	4mm十字軸心	2	#169	90度彎管	1
A-90A	一體式差速接杯	2	#171	油管夾	3
A-91A	一體式剎車接杯	2	#174A	飛輪(三片式)	1
AS-03	輪胎內海綿	2	#174B	離合器片	3
AS-04	大直齒(鋼製)	1	#174C	離合器彈簧	3
BT-114	8/1狗骨胎	4	#159-BK	油管(黑色)	1
C-07H	後支板(硬陽)	1	#180D	SG軸中心螺帽	1
C-08	防塵板(尼龍)	1 set	#195	引擎座專用螺絲	4
C-13	房水盒(新)	1	#264B	7mm飛輪銅套	1
C-15A	中央補強柱	1	#267CH	六角輪座(8mm)硬陽	2
C-15B	感應器固定座	1	#267D	8x16培林	8
C-16	硬陽底盤	1	#267E	2.5x16.8mm滾針	4
C-22H	後油壓架 4mm(硬陽)	1	#273A	長軸接杯(8mm)	2
C-26H	二樓板(硬陽)	1	#273B	後輪固定座(8mm)	2
C-27	伺服機固定座(平騎式)	1 set	#312-BK	伺服片(黑色)	1 set
C-28	平衡桿鐵線 3mm	2	#315A	2001避震軸心, 前	2
C-32	後下擺臂模	2	#315S	油壓修理包	4
C-33	3x42.6mm後下擺臂軸	2	#316A	2001避震軸心, 後	2
D-02	前上擺臂	2	#321BK	矽膠管(黑)	2
D-10	中央傳動軸(86.5mm+90mm)	1	#356	空氣濾清器	1
D-17	3mm擺臂軸	4	#356A	濾清器海綿	2
D-17A	4mm擺臂軸	2	#356B	濾清器彎管	1
D-20H	前油壓架 4mm(硬陽)	1	#361Y	1/8 平面框(黃色)	4
D-21A	LX-1 PC 車殼(印刷)	1	#365B	13mm 避震器筒身(前)	2
D-22	定風翼架組	1	#365C	13mm 硬陽油壓蓋	4
E-37	6mm球型座	6	#365D	避震器調整環	4
G-04	前上擺臂軸 4x44.5mm	2	#365F	15x1 O環	4
G-05	剎車碟(鐵製)	2	#365P	13mm 避震活塞(白)	4
G-06	剎車夾片	4	#366B	13mm 避震器筒身(後)	2
G-06A	剎車夾片墊片	4	#367	避震器氣室(枯)	4
G-07H	前上固定板(硬陽)	1	#370	避震器彈簧(黃色)超軟	1 set

## ULTRA LX-1 RTR

Item No.	Description	Q'Ty	Item No.	Description	Q'Ty
A-01	Front Gear Case	1	G-10	Steering Ball End 7mm	8
A-10B	Body Mount (front)	2	G-13	Cap Joint	2
A-12	Bevel Gear (L)	1	G-14	Servo Saver Set	1set
A-12S	Plastic Bushing	5	G-14B	Servo Saver Bushing	2
A-13	Bevel Gear (S)	1	G-14C	6mm E-Clips	4
A-16	Arm Holder	2	G-15H	Servo Saver Connector (Hard-coate	1
A-17A	Brake Lever	2	G-16H	Front Plate Joint (hard-coated)	1
A-17B	Brake Rod	2	G-19	4x46 Turnbuckle	4
A-20A	Diff. Housing	2	G-25	7mm Ball	6
A-21A	Brake Cam	1	G-26	5x40 turnbuckle	2
A-21B	Plastic Bushing	2	G-29	Front Lower Arms	2
A-24	Front Bumper	1	J-23A	Wing Mount (rear)	1
A-34B	Stabilizer Ball End	2	J-24	93mm Rear Drive Shaft	2
A-35A	Rear Lower Arm Holder	1	J-25	Stabilizer Plastic Ball Ends	4
A-36A	Servo Saver Spring	1	J-34	7mm Balls (Black)	4
A-36B	Servo Saver Sahft	2	J-35	Alum. 3mm Tapered Washers	4
A-37	Servo Saver Plastic	2	J-42A	Fuel Tank Post	1 set
A-38	Servo Saver Supporter	2	J-47D	Shock Shaft Dust Covers	4
A-40A	6mm Ball End (plastic)	6	J-47F	M2.5 Nut	4
A-41A	6mm BALL	6	J-50	Rear Upper Ball End	4
A-46	Clutch Bell 14 Teeth	1	J-52Y	Nylon Wing, Yellow	1
A-47A	Bearing 5X10X4	2	J-56	Front Universal Joint	2
A-48	Engine Mount	2	JP-08	140cc Fuel Tank	1
A-49	Muffler	1	L-26	3x36mm Turnbuckle	2
A-49A	Muffler Stay	1	X1-20	Knuckle Arm, L & R	1set
A-53A	Throttle Spring	2	X1-26A	Alum. 17mm Wheel Nut	2
A-56	Antenna Pipe	1	X1-27	Knuckle Arm Bushing	4
A-62	Bearing 7X19X6	6	X1-28	King Pin Screw	4
A-63	Bearing 6X13X5	12	X1-31	Shock Ball End Post/one- piece/Top	4
A-65BH	Center Plate (Hard-coated)	1	X1-36	Front C Hub	1set
A-77C	P-5 O-ring	2	XT-22	Plastic Shock Parts Set	1
A-77D	2x12.8 pin	2	#139	Manifold Springs	1
A-77E	0.5x26 O-ring	2	#140	Alumi. Radio Post	3 pcs
A-77G	4x10x0.2 Washer	4	#150BK	Switch Cover (black)	1
A-80A	Brake Adjust Nut	2	#151	Exhaust Connector	1
A-80B	Throttle Linkage Plastic Set	1	#154	Plastic Ball End	4
A-85	New Diff. Case (front/rear)	1 pc	#155B	Body Clips	1set
A-86	New Diff. Case (center)	1 pc	#158	Alumi. Stopper	6 pcs
A-87	Diff Bevel Gear (S+L)	1 set	#169	Manifold	1
A-87B	4mm Cross Pin	2	#171	Fuel Tube Clips	3
A-90A	Cap Joint For Diff	2	#174A	3 Shoe Flywheel	pc
A-91A	Brake Cap Joint	2	#174B	3 Shoe Clutch carbon	3 pcs
AS-03	Inner Sponge for Tire	1	#174C	3 pcs Clutch Spring	3 pcs
AS-04	Steel Spur Gear	1	#159-BK	Fuel Tube (45cm), black	1
C-07H	Rear Stiffener (hard-coated)	1	#180D	SG Pilot Shaft	1
C-08	Nylon Stone Guard	1	#195	5mm SP Engine Mount Screw	4 pcs
C-13	Water Proof Box (NEW)	1	#264B	7mmTapered Cone	1
C-15A	Front Chassis Bracer	1	#267CH	Wheel Hub 8mm (Hard-coated)	2
C-15B	Sensor Support	1	#267D	8x16 Bearing	8
C-16	Chassis (Hard-Treated)	1	#267E	2.5x16.8 Pins	4
C-22H	Rear Shock Stay (4mm)(hard-coated)	1	#273A	Rear Wheel Axle Shaft	2
C-26H	Radio Tray (hard-coated)	1	#273B	Rear Upper Right	2
C-27	Servo Fixing (Lay down)	1 set	#312-BK	Universal Servo Horn (black)	1 set
C-28	Stabilizer 3mm	2	#315A	Shock Shafts (front)	2
C-32	Front & Rear Lower Arms	1 set	#315S	Shock Repair Kit	4
C-33	3x42.6mm Rear Lower Arm Shaft	2	#316A	Shock Shafts (Rear)	2
D-02	Front Upper Arms	1	#321BK	Silicone Connect Tube, black	1
D-10	Center Shaft	2	#356	Air Filter	1
D-17	Arm Shafts 3mm	4	#356A	Air Filter Foam	2
D-17A	Arm Shaft 4mm	2	#356B	Air Filter Connector	1
D-20H	Front Shock Stay(hard-coated)	1	#365B	Shock Body Front, 13mm	2
D-21A	LX-1 PC Body(Printed)	1	#365C	Shock Cap, 13mm	4
D-22	Wing Stay	1	#365D	Shock Spring Adjuster	4
E-37	6mm Ball & Socket	6	#365F	15x1 O-Ring	4
G-04	Arm Shaft (4x44.5mm)	2	#365P	Shock Piston, 13mm	4
G-05	Brake Disk (stanlessteel)	2	#366B	Shock Body Rear, 13mm	2
G-06	Brake Pad	4	#367	Shock Air Pressure Top, Orange	4
G-06A	Brake Pad washer	4	#370	Shock Spring, Yellow (soft)	4
G-07H	Front Upper Arm Holder 4mm(hard-coat	1	#361Y	1/8 Diss Wheels, Yellow	4
G-09	Plastic Arm Ball End 7mm	6	BT-114	1/8 Cosmic Tires	pair



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