

# 1/8TH SCALE ELECTRIC POWERED ON-ROAD TOURING

# DM-GINE

## INSTRUCTION MANUAL

## FEATURES

- \*HIGH IMPACT LARGE FRONT BUMPER AND FOAM BUMPER.
- \*FRONT AND REAR PUSH ROD SUSPENSION DESIGN.
- \*THREADED LAY-DOWN 13MM BIG BORE SHOCKS FOR FRONT AND REAR.
- \*ADJUSTABLE ACKERMAN STEERING GEOMETRY DESIGN.
- \*REAR PIVOT BALL UPRIGHTS FOR QUICK GEOMETRY CHANGES.
- \*SPRING STEEL UNIVERSAL JOINTS FOR FRONT.
- \*ADJUSTABLE BLADE TYPE SWAY BAR FOR FRONT AND REAR.
- \*ADJUSTABLE DOWN-STOP AND UP-STOP SUSPENSION DESIGN.
- \*QUICK RELEASE CENTRE DIFFERENTIAL MOUNT DESIGN.
- \*CONVENIENT CARRY HANDLE IN THE CENTRE OF THE CAR.
- \*CHANGEABLE ROLL CENTRE DESIGN FOR FRONT AND REAR SUSPENSION.
- \*CNC MACHINED CLUTCH BELL WITH SCREW-ON CHANGEABLE GEARS.
- \*SECURE TRANSPONDER MOUNT.
- \*REAR AIR FLOW DIFFUSER CREATES MORE DOWN FORCE.
- \*HIGH GRIP RADIAL TIRES ON 17MM HEXWHEELS.
- \*CHOICE OF DIFFERENT BODY DESIGNS.

### ADDITIONAL PARTS NEEDED

- Li-Po Battery Charger
- 7.4V Li-Po Battery(Hard Case) x 2pcs.
- Batteries(AA) x 8pcs.
- KIT IN INSTRUCTION MANUAL MAY BE DIFFER FROM PICTURE SHOWN.
- ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

### THIS IS NOT TOY!

- Do not use with children under 16 years of age or without adult supervision.

### 需另購零件

- 鋰電池專用充電器
- 7.4V 鋰充電電池組(硬殼) x 2顆
- 3號乾電池 x 8顆
- 圖示產品可能為試樣品其可能與包裝不同。
- 全部規格及配備以實際包裝為主，配備內容或零件變更恕不另行通知。

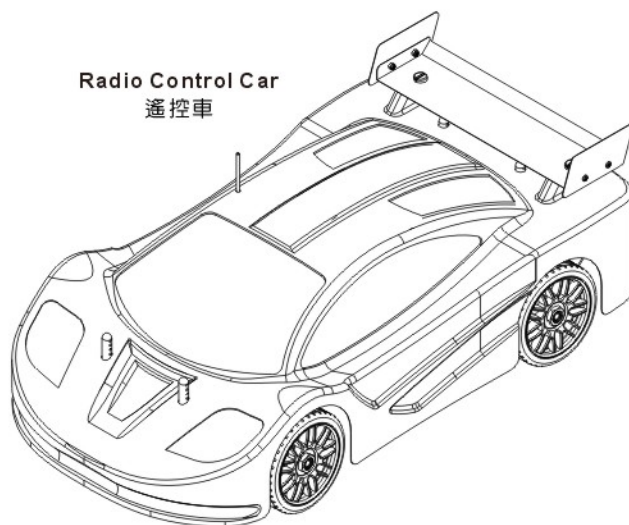
### 本產品非玩具

- 16歲以下或沒有成人督導之兒童請勿使用。

**HONG NOR**  
QUALITY R/C MODEL PRODUCTS

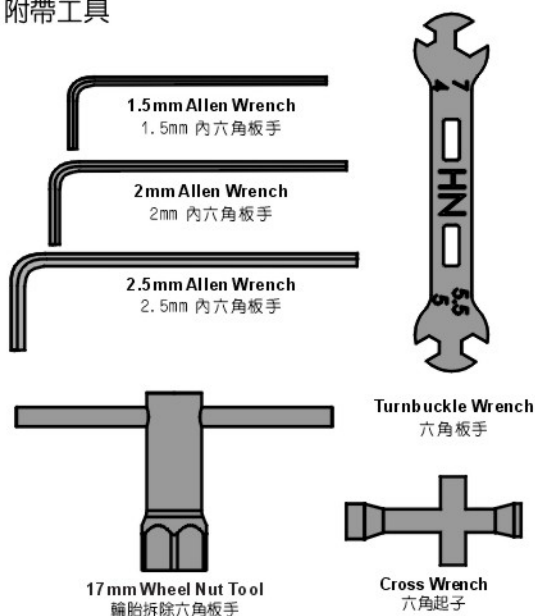
Components

內容物



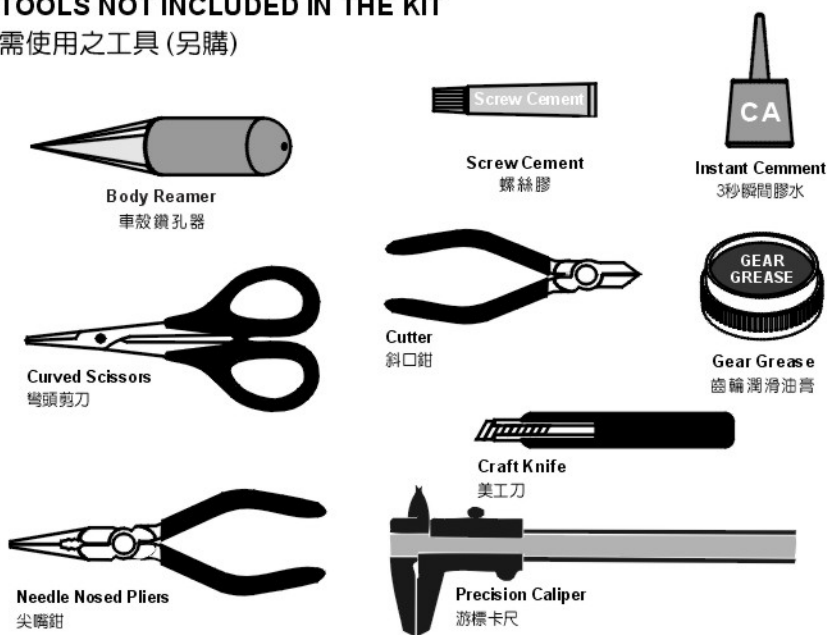
Included Items

附帶工具



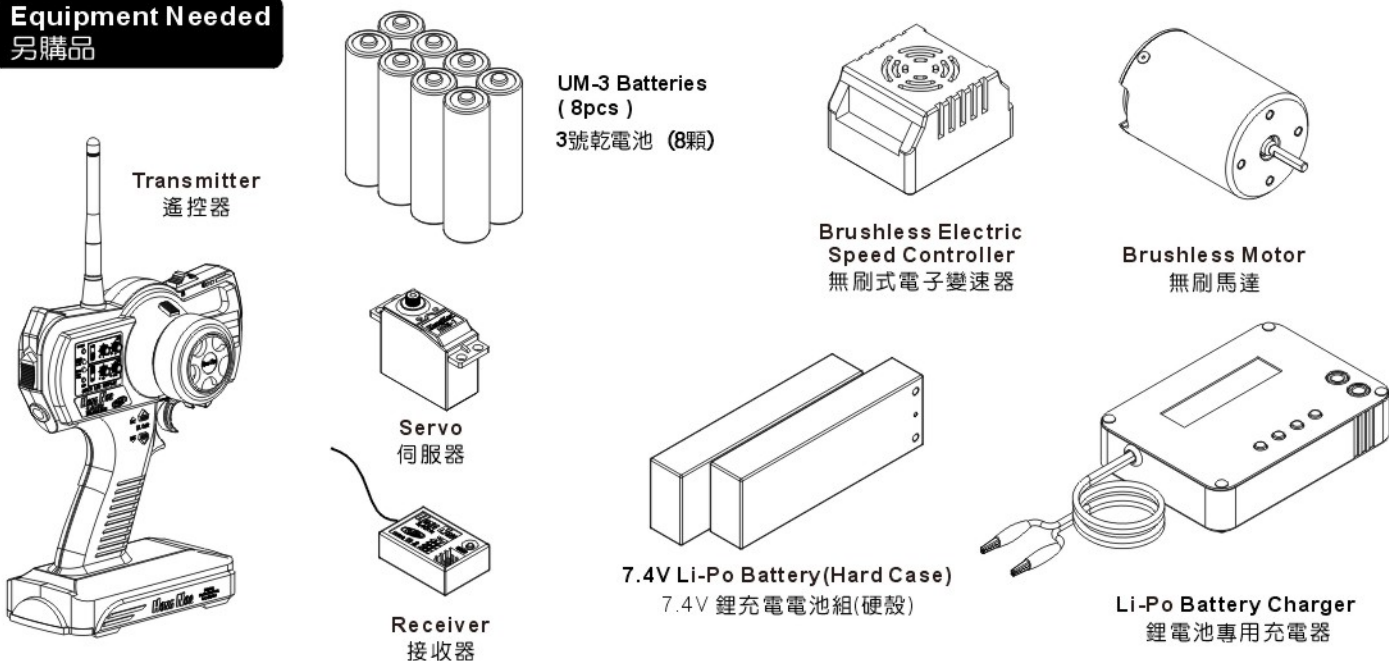
TOOLS NOT INCLUDED IN THE KIT

需使用之工具 (另購)



Equipment Needed

另購品





# IMPORTANT-READ THIS BEFORE RUNNING

重要！操作前請先閱讀

## 1. Before Starting

啟動前

- ◎ **Please read manual (with a parent, guardian or a responsible adult if necessary).**  
請閱讀說明書(如有必要，須有家長，監護人，或其他成年人陪同)。

## 2. While Operating

當操作時

- ◎ **Any running area you choose must be dry. Do not run car near any water or wet dirt.**  
請在乾地上操控車子。並請勿操控車子於水池或溼地旁。
- ◎ **Do not run on public streets. It is very easy to have the car run over or be damaged by hitting the curb.**  
勿在大街上操控車子，因為它很容易被行駛中的車輛輾過或碰撞而有所損傷。
- ◎ **Do not operate the car in tight confined places. The car is very fast and will easily hit something.**  
勿在空間狹窄的地方操作；因為它的速度快很容易碰撞周圍物件。
- ◎ **Do not run near people or animals. The car is very fast and could easily hit someone if you are not an expert driver.**  
勿操作車子於人群或動物旁；如您不是專業人士操作，他們都可能發生危險。
- ◎ **Do not operate the car at night. You will not be able to drive it safely.**  
勿在晚上操作模型車，因可能視線不佳而導致它發生碰撞。

## 3. Before Operating

操作前檢查

- ◎ **Make sure that all screws and nuts are properly tightened.**  
確認螺絲與螺帽有無鬆動。
- ◎ **Radio-Check battery life before running the car. If the 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 fail safe unit.**  
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，將導人體受傷或車子受損；我們極力建議裝配“防失控”裝置在您的車上。
- ◎ **Please confirm the neutral throttle trigger position.**  
請確認油門位於中立點位置。

## 4. Check Your Car After Running

操作後注意事項

- ◎ **Turn OFF receiver first, then turn OFF transmitter. This will prevent the car from losing control.**  
先關閉接收機電源，再關閉遙控器電源，以避免遙控車失控爆衝。
- ◎ **After running radio controlled car, it is necessary to perform routine maintenance.**  
遙控車跑完之後需要進行保養。

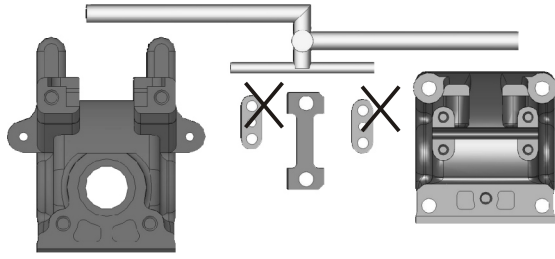
## 5. Battery Safety

電池安全

- ◎ **Please be careful when handling the battery. It will be hot after running. If the wire is frayed, a short circuit can cause a fire.**  
操作後電池將會發燙，取出電池時請小心。如果電池電線磨損，短路將會導致電池起火燃燒。

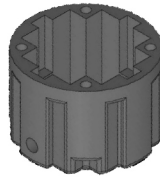


**X1-33**  
**FRONT AND REARGEAR BOX**  
差速箱塑膠品

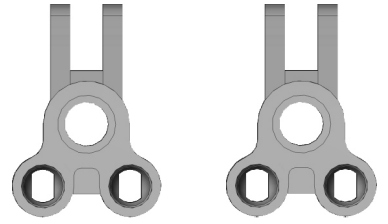


Parts for Not Use 不使用之零件

**X1-38**  
**DIFF. CASE**  
差速器殼塑膠品

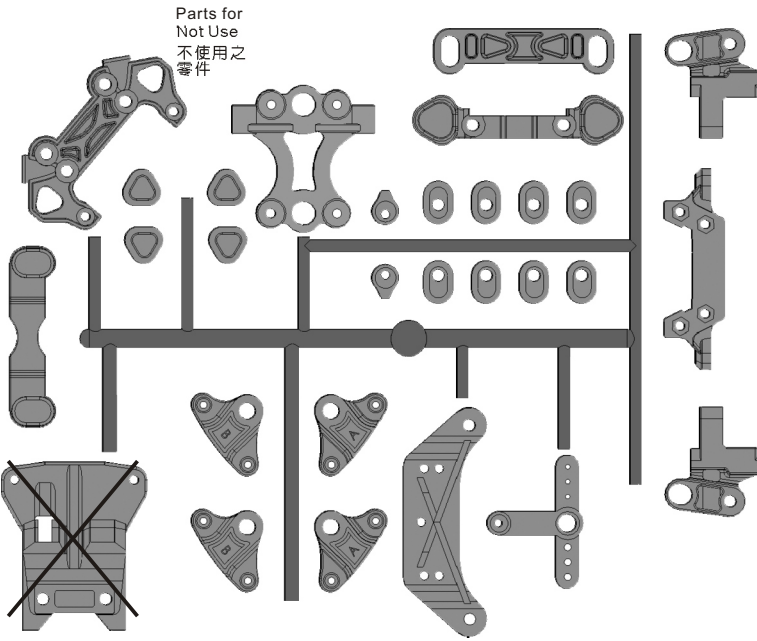


**#306C**  
**REAR UPRIGHT**  
後輪固定座塑膠品

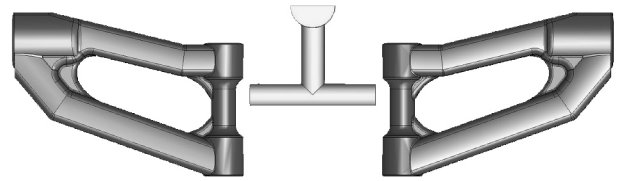


**DM-12**  
**ARM HOLDER**  
擺臂固定座、油壓架、防傾桿座塑膠品

Parts for Not Use 不使用之零件

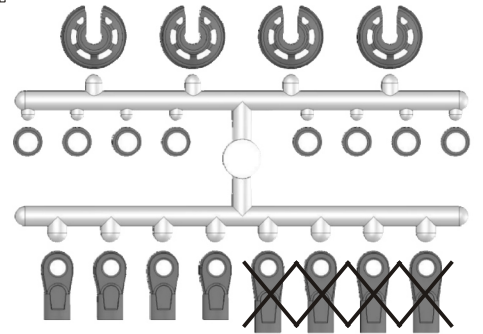


**X1-37**  
**REAR UPPER ARM**  
前上擺臂塑膠品

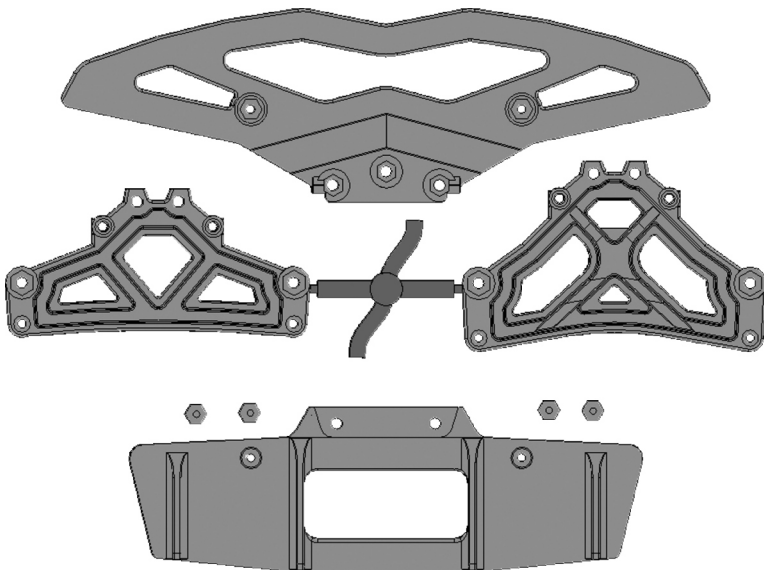


**XT-22**  
**SHOCK PLASTIC**  
避震器塑膠品

Parts for Not Use 不使用之零件

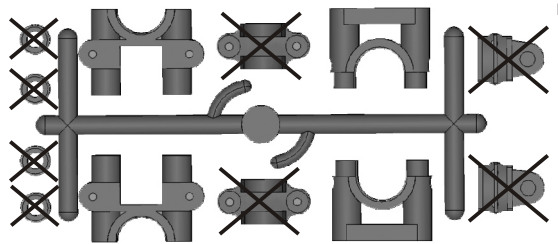


**DM-14**  
**FRONT BUMPER**  
防撞板塑膠品

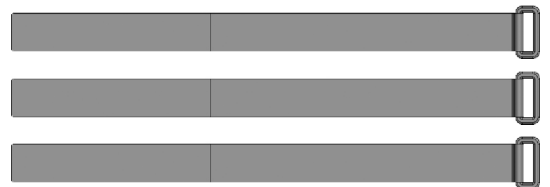


**J-36**  
**CENTER DIFF. MOUNT PLASTIC PARTS**  
中差座塑膠品

Parts for Not Use 不使用之零件



**#396**  
**VELCRO BATTERY STRAPS**  
電池固定帶(魔鬼粘)

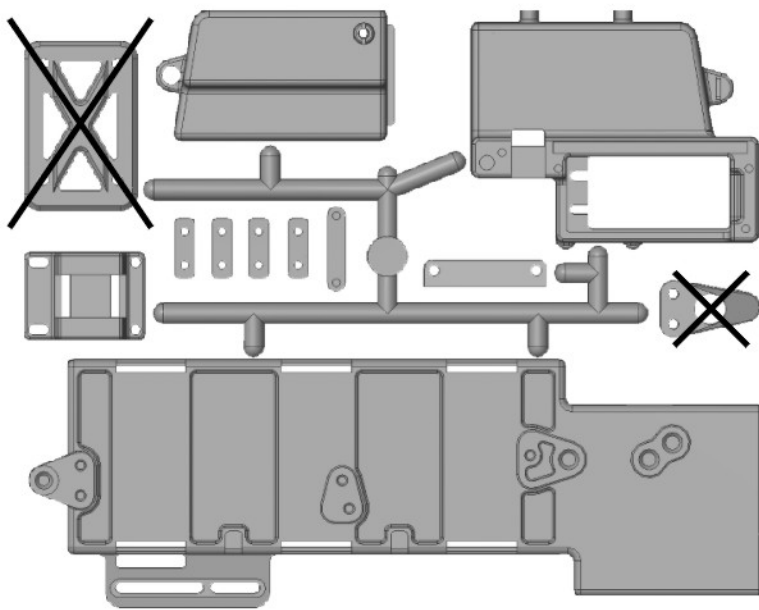




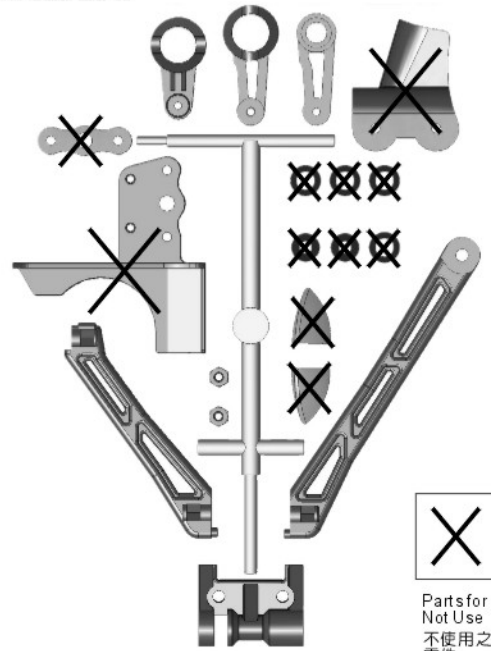
#395  
BATTERY CASE  
電池盒塑膠品



Parts for Not Use  
不使用之零件

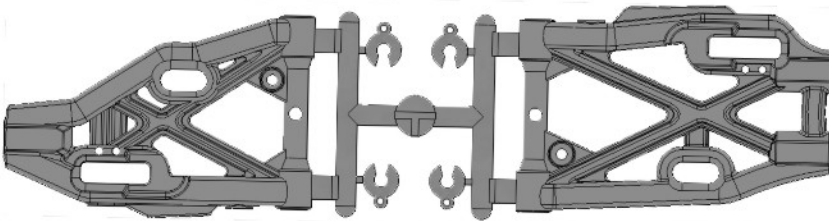


X1-39  
SERVO SAVER  
緩衝組塑膠品

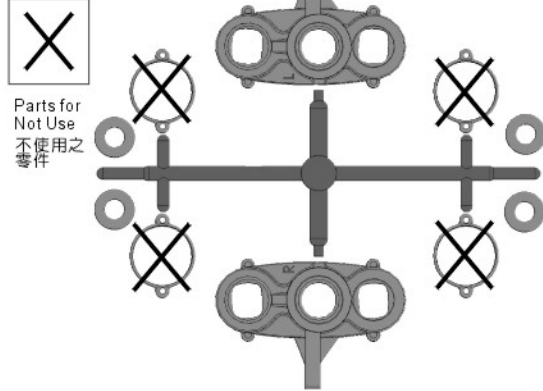


Parts for Not Use  
不使用之零件

DM-10  
FRONT AND REAR LOWER ARM  
前後下擺臂塑膠品



DM-11  
FRONT KNUCKLE ARM  
球型轉向座 L.R 塑膠品

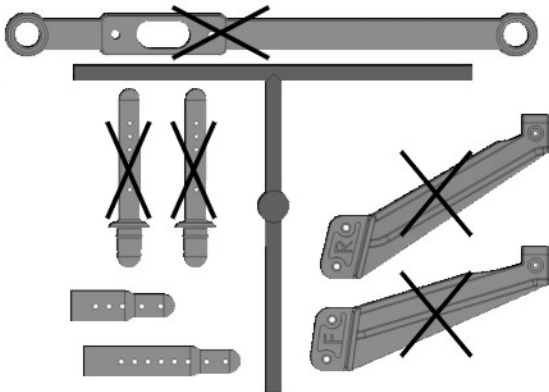


Parts for Not Use  
不使用之零件

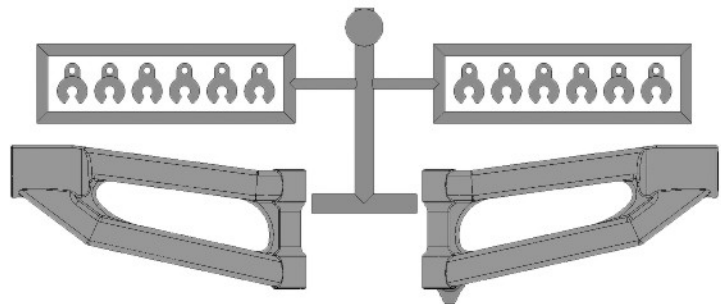
DM-13  
SIDE IMPACT BUMPER AND BODY POST  
側邊防撞板及車殼架塑膠品



Parts for Not Use  
不使用之零件



DM-09  
FRONT UPPER ARM  
前上擺臂塑膠品



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



Parts Bag Used  
使用零件包裝袋



Degrease With Motor Spray  
使用清潔噴劑



Do Not Over Tighten  
請勿鎖緊物件



Tighten  
稍緊物件



Ensure Free Movement  
確定可自由活動



Contact Adhesive  
使用強力接著劑



Apply Screw Cement  
使用螺絲膠



Apply Oil  
塗上潤滑油



Apply Grease  
塗上潤滑黃油



True-To-Scale  
1:1 原寸圖



Clockwise Rotation  
順時針方向旋轉



Anti-clockwise Rotation  
反時針方向旋轉

# 1 ASSEMBLY OF THE FRONT SHOCKS

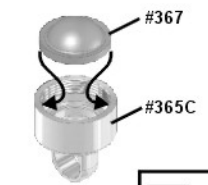
**前避震器組合**  
\*Assemble 2 sets for front  
請組合 2 支前面用

- #315S  
3.5mm O-Ring  
O型環 .....x4
- #315S 1mm Washer  
墊片 .....x2
- #315S 2mm Washer  
墊片 .....x2
- #315S  
7mm R-Ring  
扣環 .....x2

- 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.
1. 拉下活塞到底部並注入避震油。  
2. 輕微上下拉動活塞以使氣泡消失。  
3. 拉下活塞並放入氣室，用棉紙擦拭溢出的避震油。



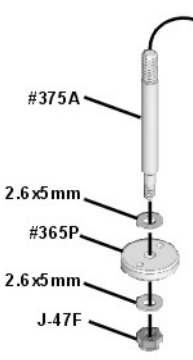
**Step 1**



**Step 2**



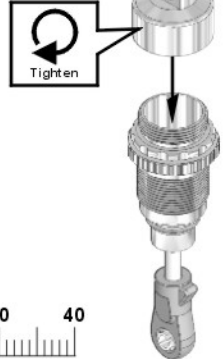
**Step 3**



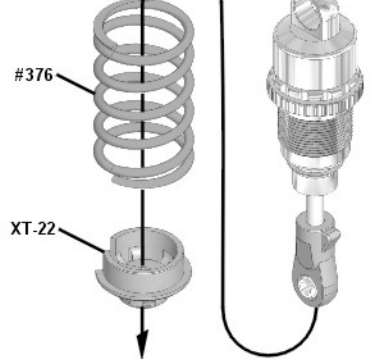
**Step 4**



**Step 5**



**Step 6**



**CORRECT SHOCK ASSEMBLY**  
油壓避震器正確組合

Carefully screw the shock shaft into the bottom of the plastic ball and until the distance between the ball end and the shock is 14mm.  
N.B. Do not over tighten as the plastic will strip.

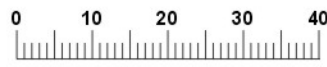
請小心組合避震器塑膠球頭，並鎖入至塑膠球頭底部，並保持油壓避震器距離為14mm。  
請勿將塑膠球頭鎖過緊，以避免滑牙。

# 2 ASSEMBLY OF THE REAR SHOCKS

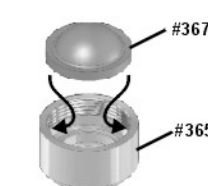
**後避震器組合**  
\*Assemble 2 sets for rear  
請組合 2 支後面用

- #315S  
3.5mm O-Ring  
O型環 .....x4
- #315S 1mm Washer  
墊片 .....x2
- #315S 2mm Washer  
墊片 .....x2
- #315S  
7mm R-Ring  
扣環 .....x2

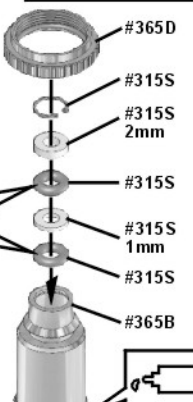
- 1.Pull down piston and pour oil into shock cylinder.
  - 2.To remove air bubbles by slowly moving piston up and down.
  - 3.Pull down piston, attach pressure top and shock oil overflow with tissue paper.
1. 拉下活塞到底部並注入避震油。  
2. 輕微上下拉動活塞以使氣泡消失。  
3. 拉下活塞並放入氣室，用棉紙擦拭溢出的避震油。



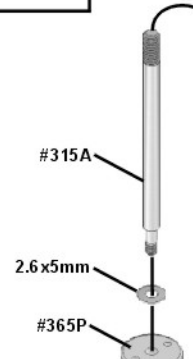
**Step 1**



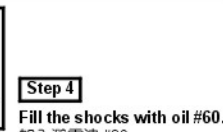
**Step 2**



**Step 3**



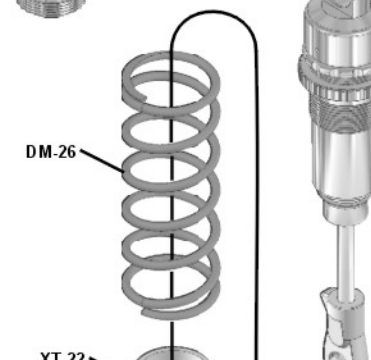
**Step 4**



**Step 5**



**Step 6**



**CORRECT SHOCK ASSEMBLY**  
油壓避震器正確組合

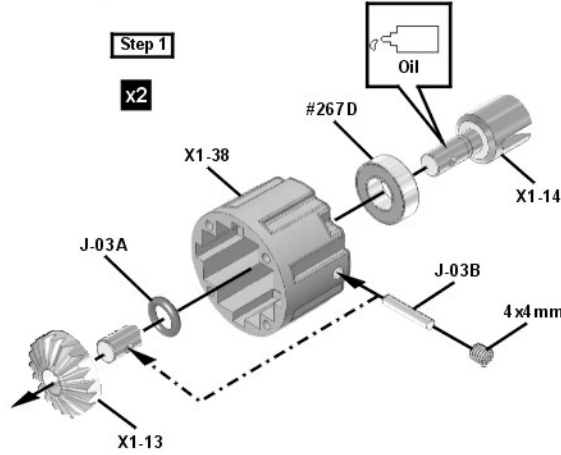
Carefully screw the shock shaft into the bottom of the plastic ball and until the distance between the ball end and the shock is 32mm.  
N.B. Do not over tighten as the plastic will strip.

請小心組合避震器塑膠球頭，並鎖入至塑膠球頭底部，並保持油壓避震器距離為32mm。  
請勿將塑膠球頭鎖過緊，以避免滑牙。

### 3 ASSEMBLY OF THE FRONT AND REAR DIFF.

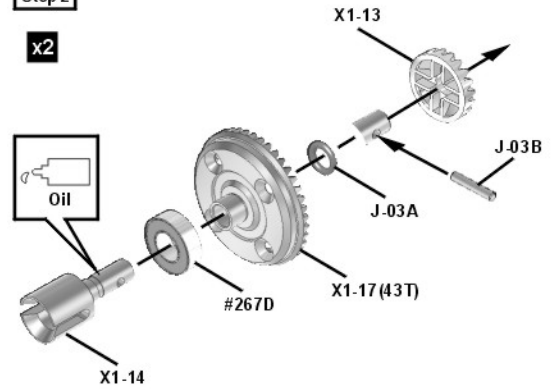
#### 前後差速齒輪組合

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



#### Step 2

x2



### 4 ASSEMBLY OF THE FRONT AND REAR DIFF.

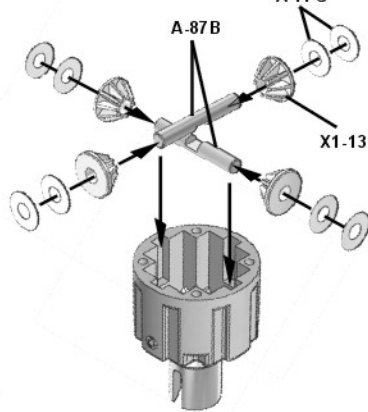
#### 前後差速齒輪組合

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



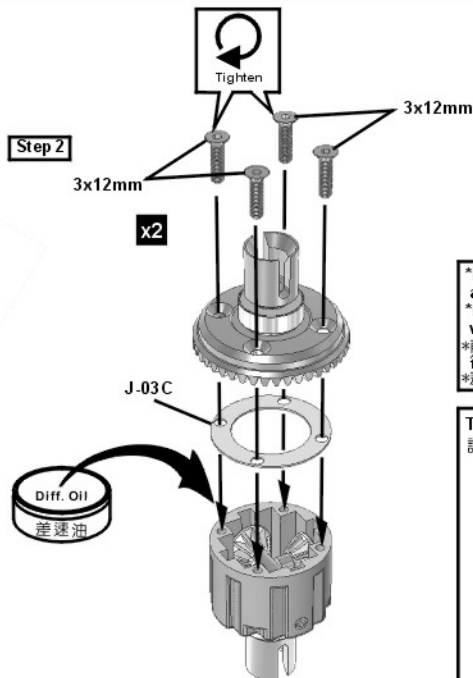
#### Step 1

x2



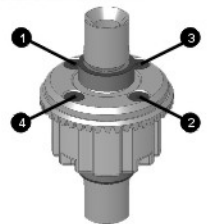
#### Step 2

x2



\*Put the Diff. Oil #100000 for front and the #5000 for Rear  
\*Fill the Diff. case to approx. 80% with the Diff. Oil  
\*前差速器請使用 #100000 差速油  
後差速器請使用 #5000 差速油  
\*差速油注滿80%即可

Tight the diff screws in this order.  
請依圖示順序上緊螺絲。



### 5 ASSEMBLY OF THE FRONT AND REAR GEAR CASE

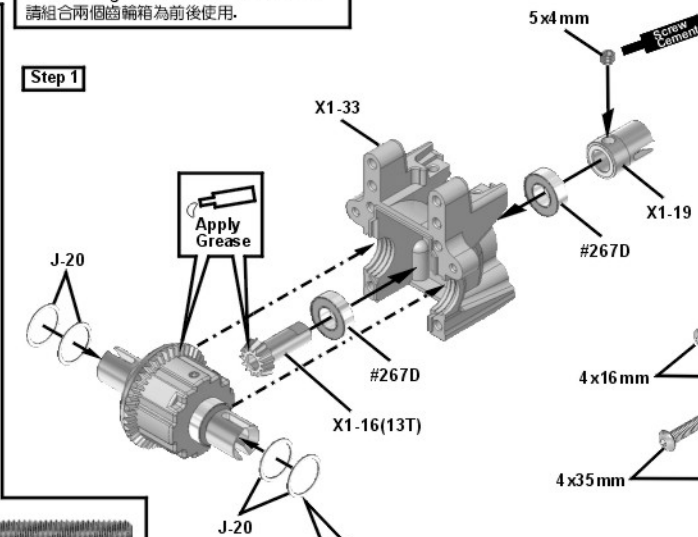
#### 前後齒輪箱組合

Builds two gear case for front and rear.  
請組合兩個齒輪箱為前後使用。

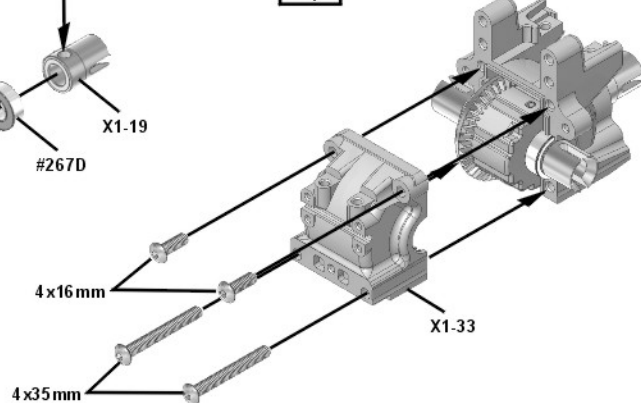


#### Step 1

x2



#### Step 2



\*Adjust the backlash with the shims.  
\*請使薄片調整間隙。

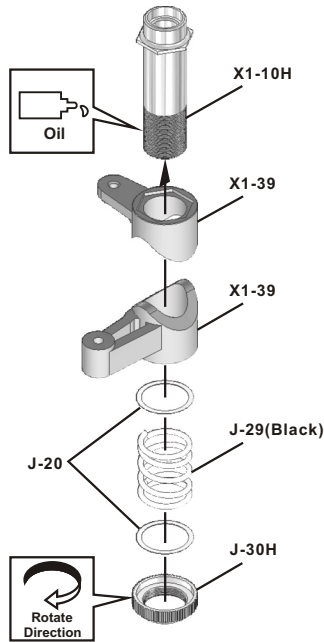


## 6 ASSEMBLY OF THE SERVO SAVER

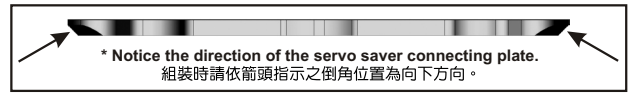
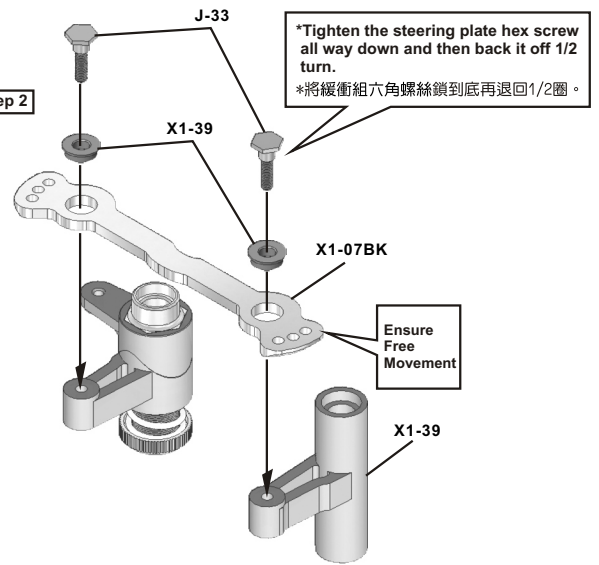
緩衝組組合



Step 1



Step 2

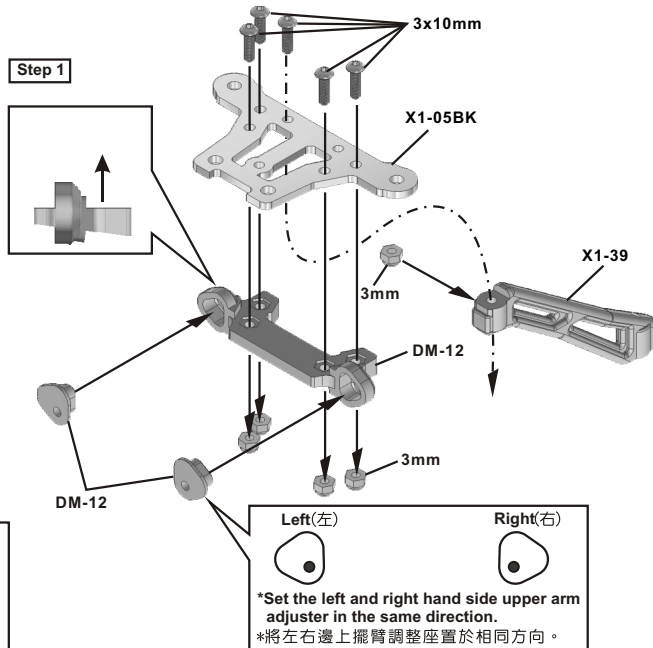


## 7 ASSEMBLY OF THE SERVO SAVER

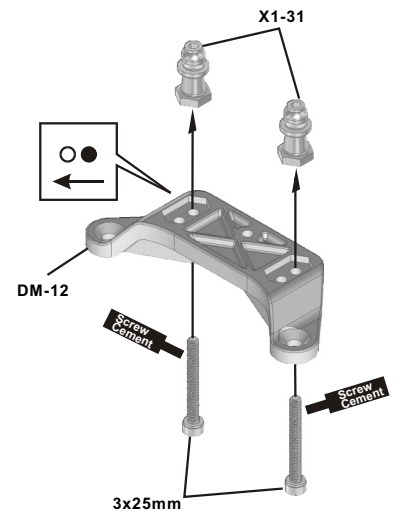
緩衝組組合



Step 1

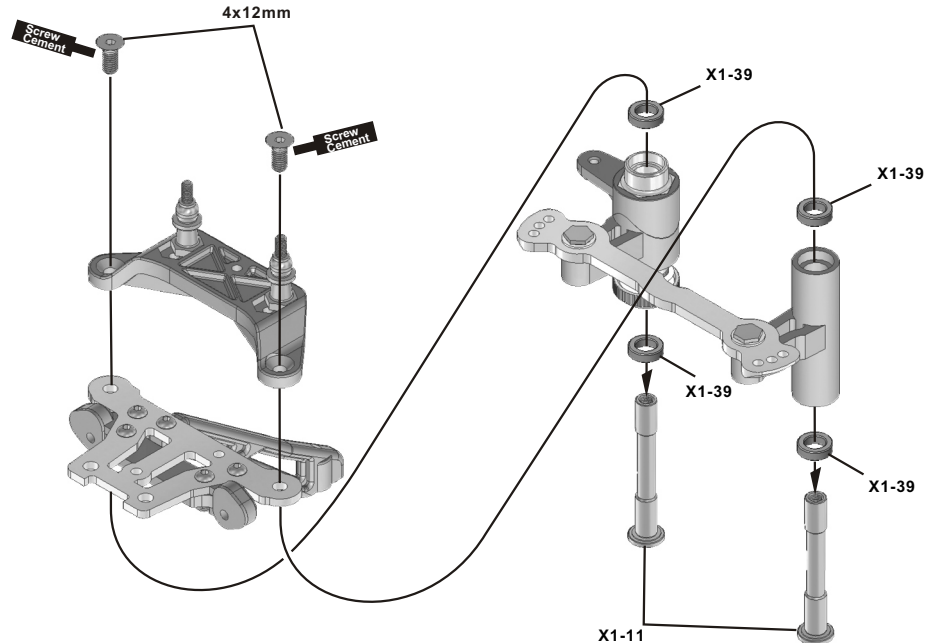


Step 2



## 8 ASSEMBLY OF THE SERVO SAVER

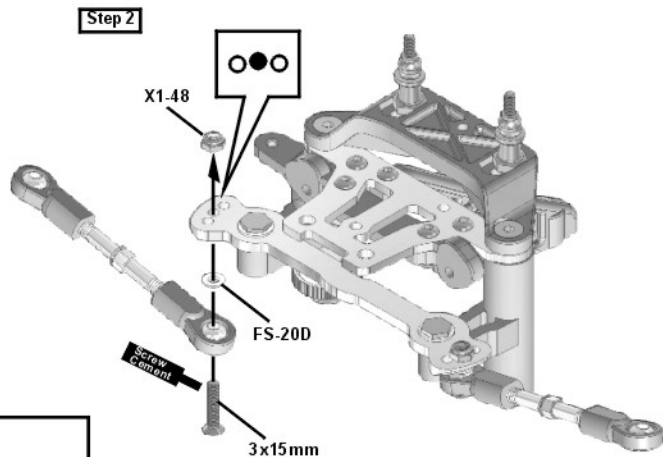
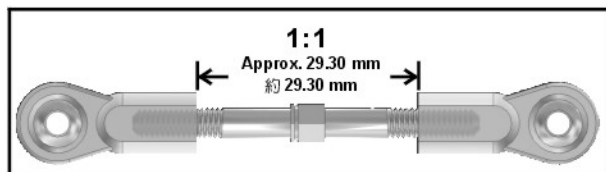
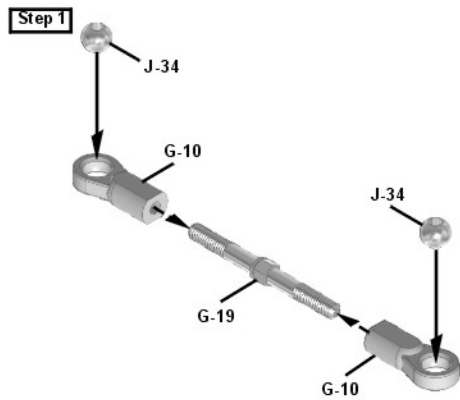
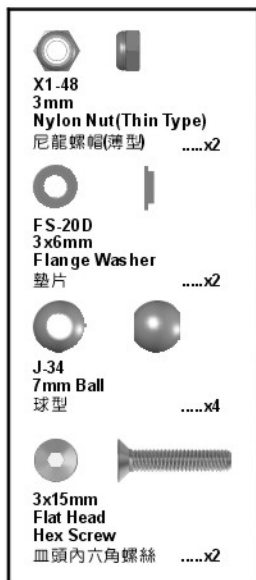
緩衝組組合



## 9 ASSEMBLY OF THE STEERING TIE-ROD

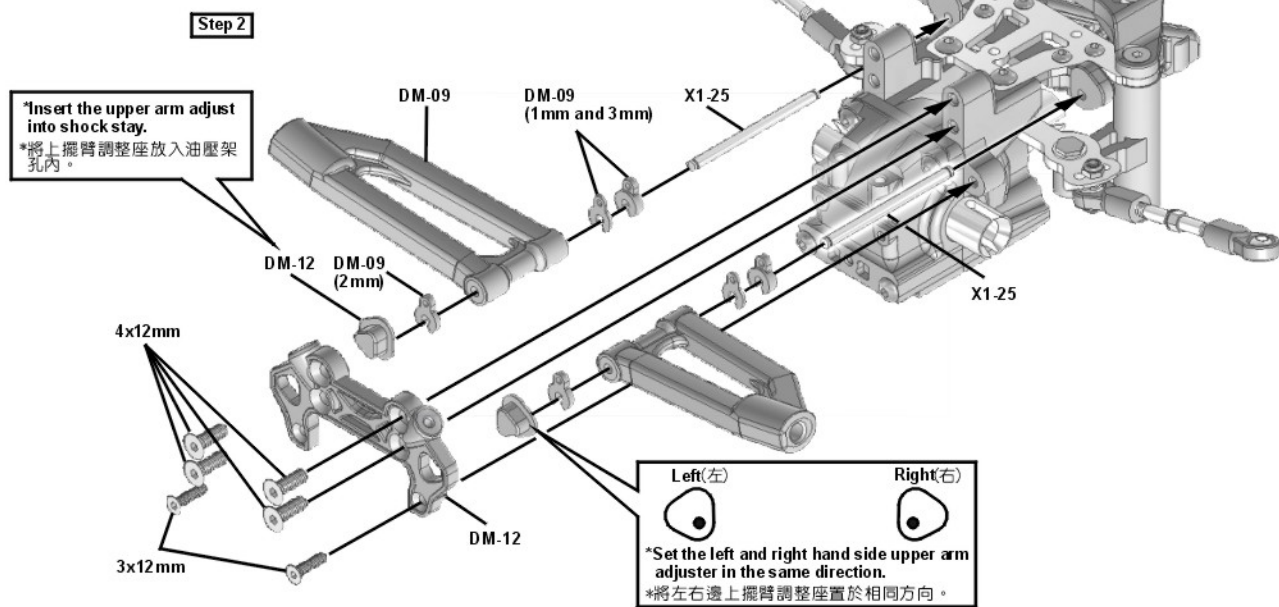
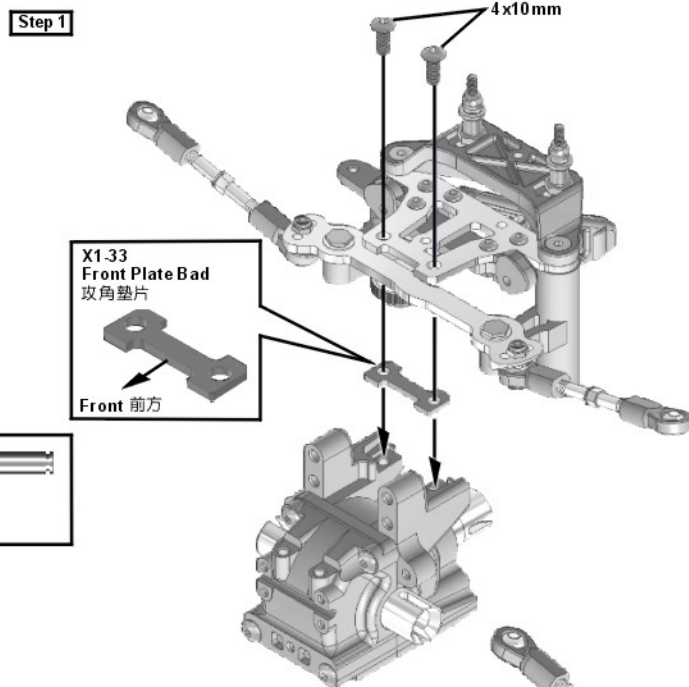
轉向拉桿組合

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



## 10 ASSEMBLY OF THE SERVO SAVER AND FRONT UPPER ARMS

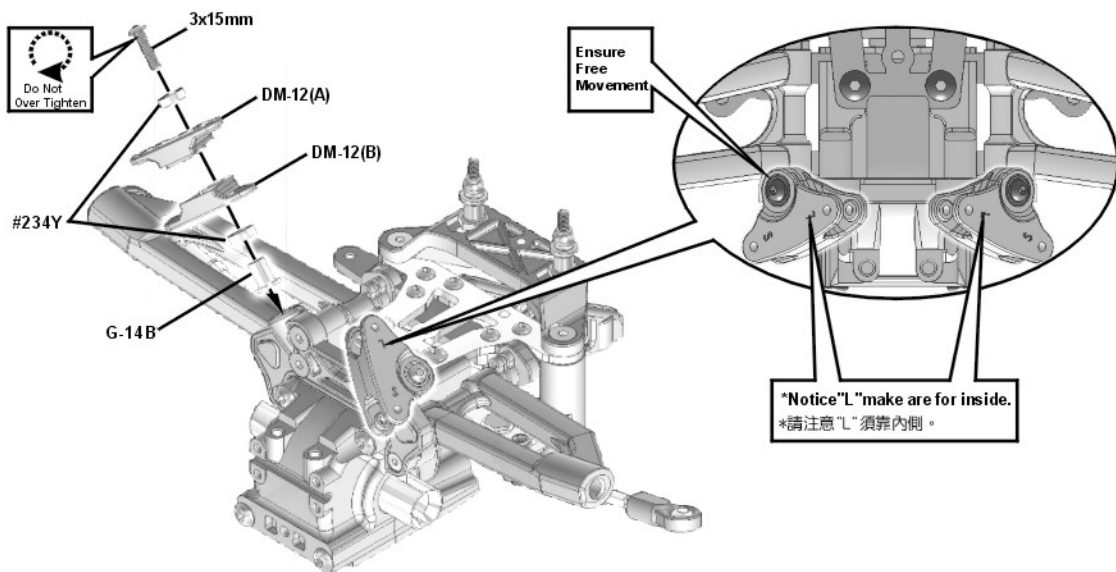
緩衝系統與前擺臂組合



# 11 ASSEMBLY OF THE FRONT SHOCK STAY 前避震架組合




Assemble both right and left sides.  
請組合左 / 右兩側。

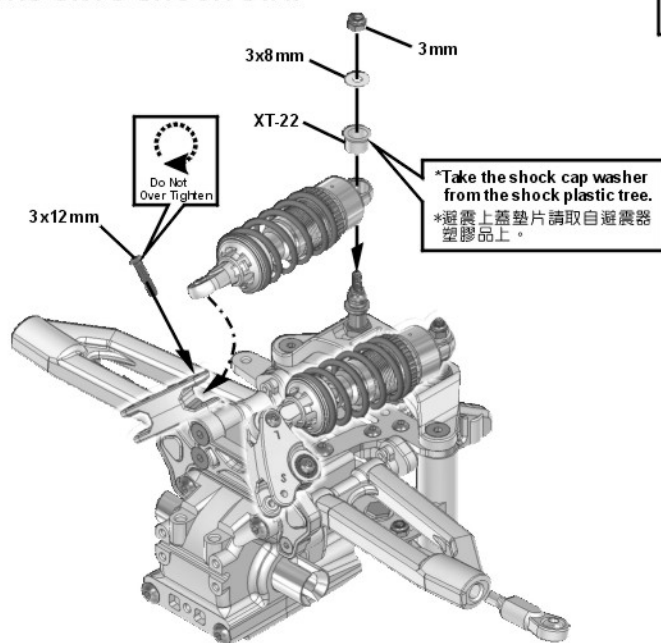
-  G-14B Shock Cap Bushing 襯套 .....x2
-  #234Y 5x8x2.5mm Ball Bearing 培林 .....x4
-  3x15mm Hex Screw 半丸內六角螺絲 .....x2



# 12 ASSEMBLY OF THE FRONT SHOCKS ONTO SHOCK STAY 前避震器與油壓架組合




Assemble both right and left sides.  
請組合左 / 右兩側。

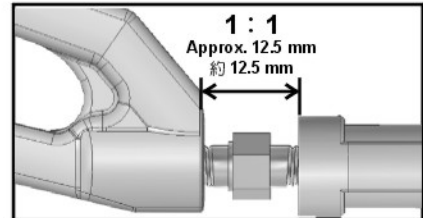
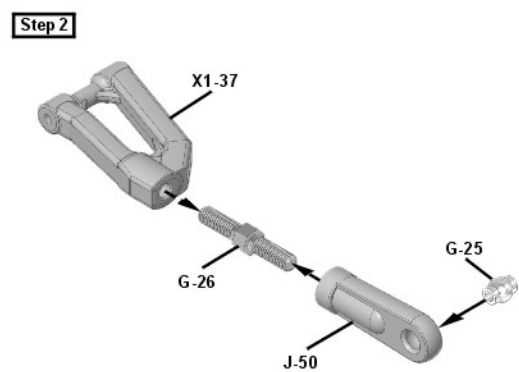
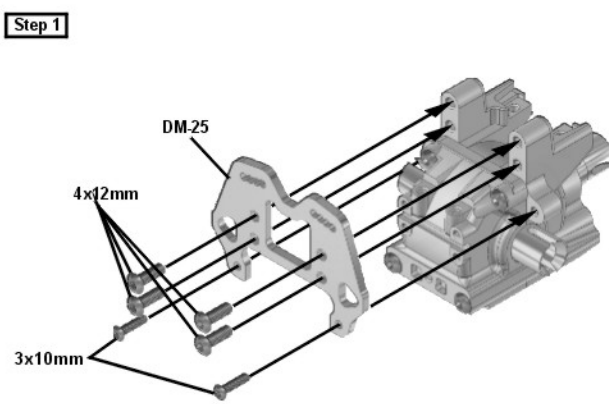
-  3mm Nylon Nut 尼龍螺帽 .....x2
-  3x8mm Washer 墊片 .....x2
-  XT-22 Shock Cap Washer 避震上蓋墊片 .....x2
-  3x12mm Hex Screw 半丸內六角螺絲 .....x2



# 13 ASSEMBLY OF THE REAR SHOCK STAY AND UPPER ARMS 後油壓架與後上擺臂組合

Assemble both right and left sides.  
請組合左 / 右兩側。

-  G-25 7mm Ball 球型 .....x2
-  3x10mm Hex Screw 半丸內六角螺絲 .....x2
-  4x12mm Hex Screw 半丸內六角螺絲 .....x4

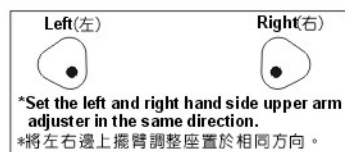




## 14 ASSEMBLY OF THE REAR UPPER ARMS

### 後上擺臂組合

Assemble both right and left sides.  
請組合左 / 右兩側。

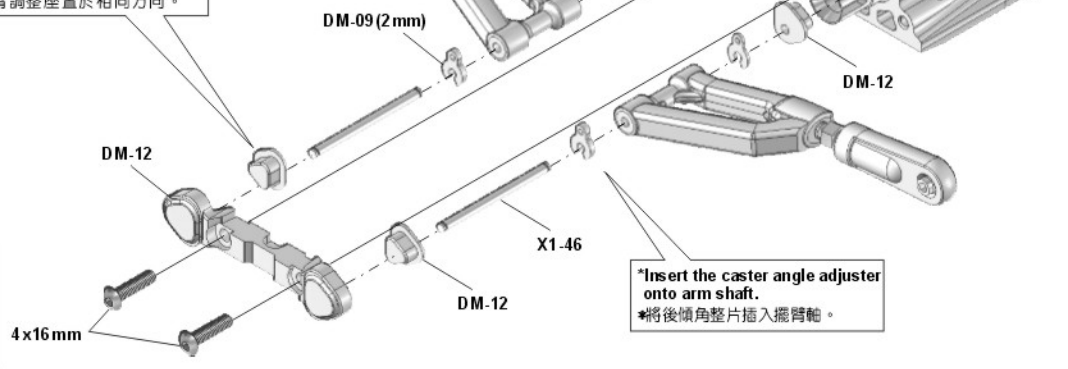


4x16mm  
Hex Screw  
半丸內六角螺絲

.....x2

X1-46 3x42.7mm  
Arm Shaft  
擺臂軸

.....x2



## 15 ASSEMBLY OF THE REAR BRACE

### 後補強桿組合



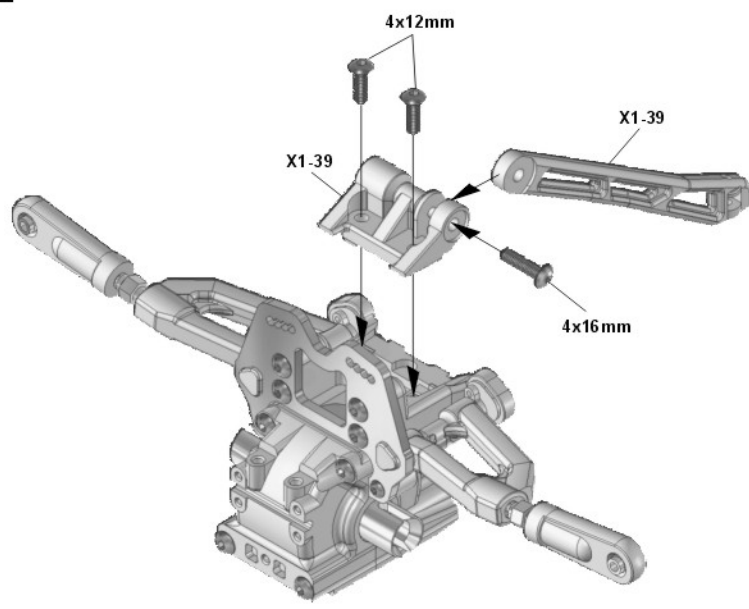
4x12mm  
Hex Screw  
半丸內六角螺絲

.....x2



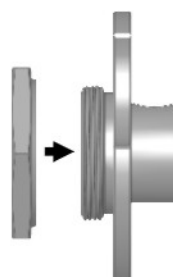
4x16mm  
Hex Screw  
半丸內六角螺絲

.....x1



## 16 ASSEMBLY OF THE SPUR GEAR

### 單段變速器組合



Step 1



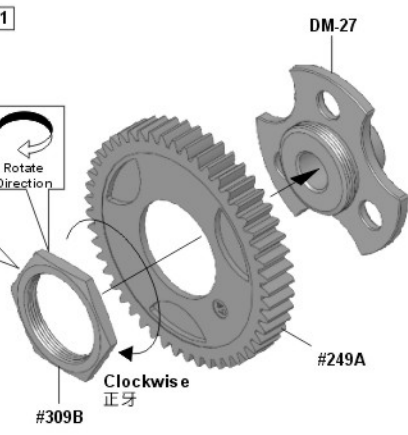
6mm E-Ring  
E型扣環

.....x1

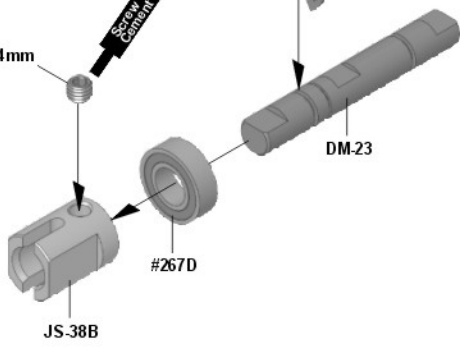


5x4mm  
Set Screw  
止付螺絲

.....x1

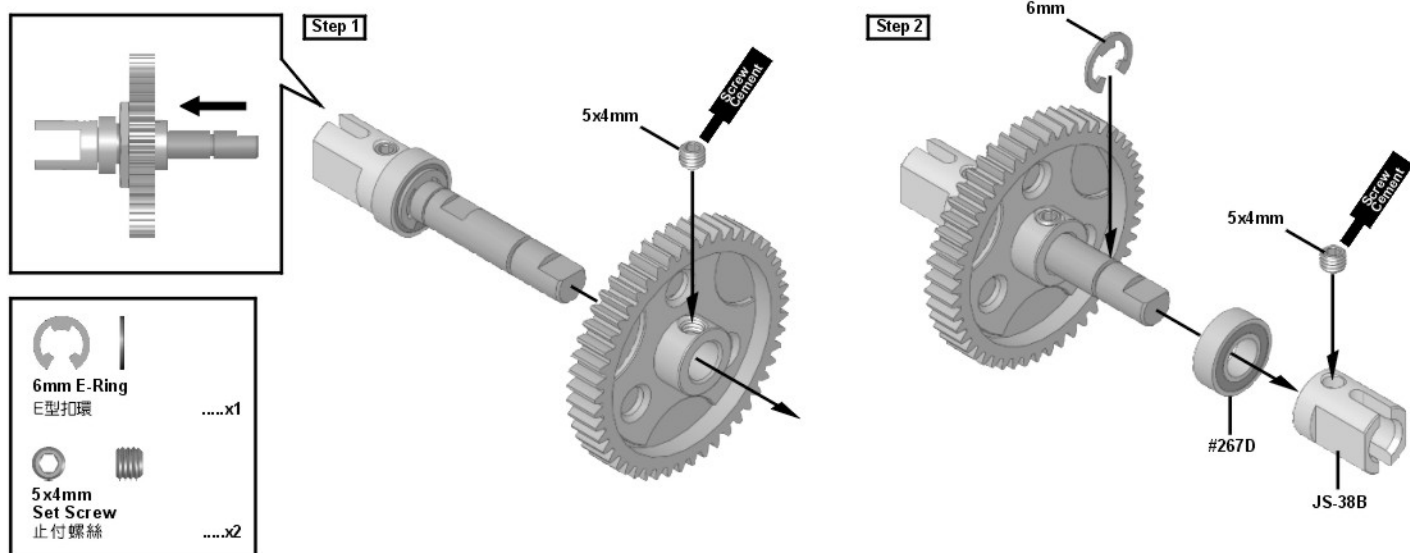


Step 2



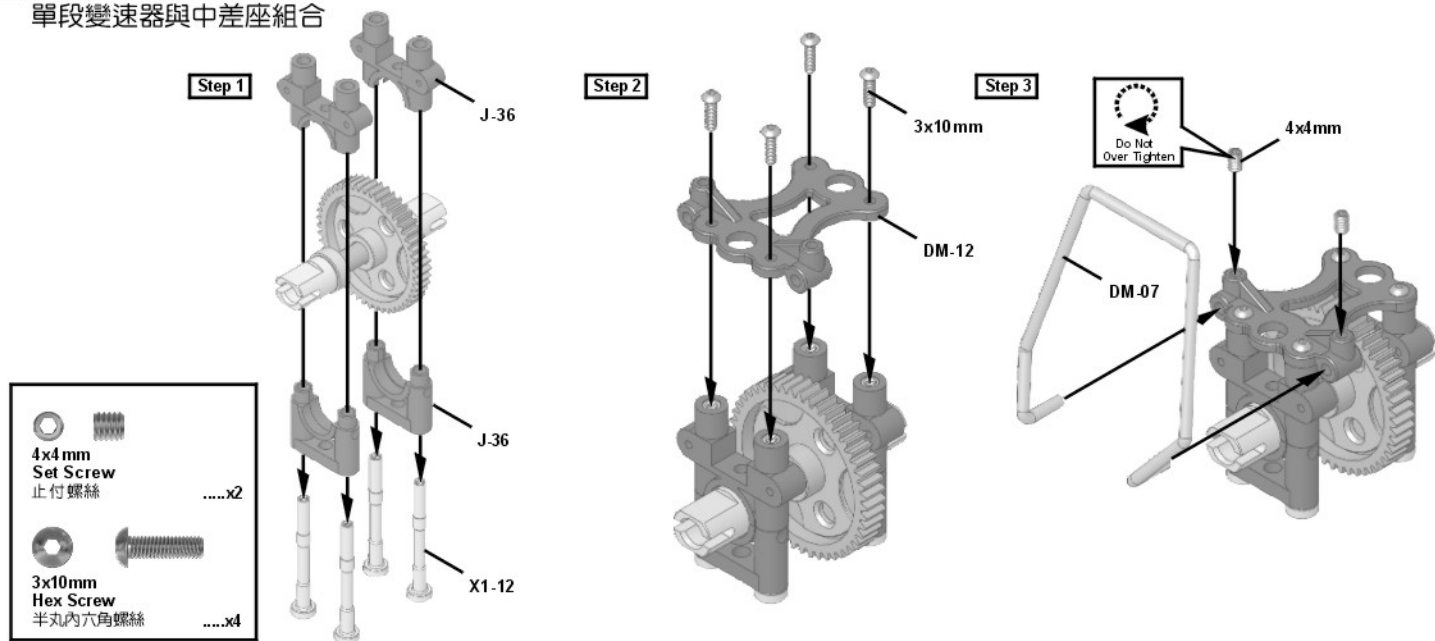
## 17 ASSEMBLY OF THE SPUR GEAR INTO CENTER SHAFT

單段變速器組合



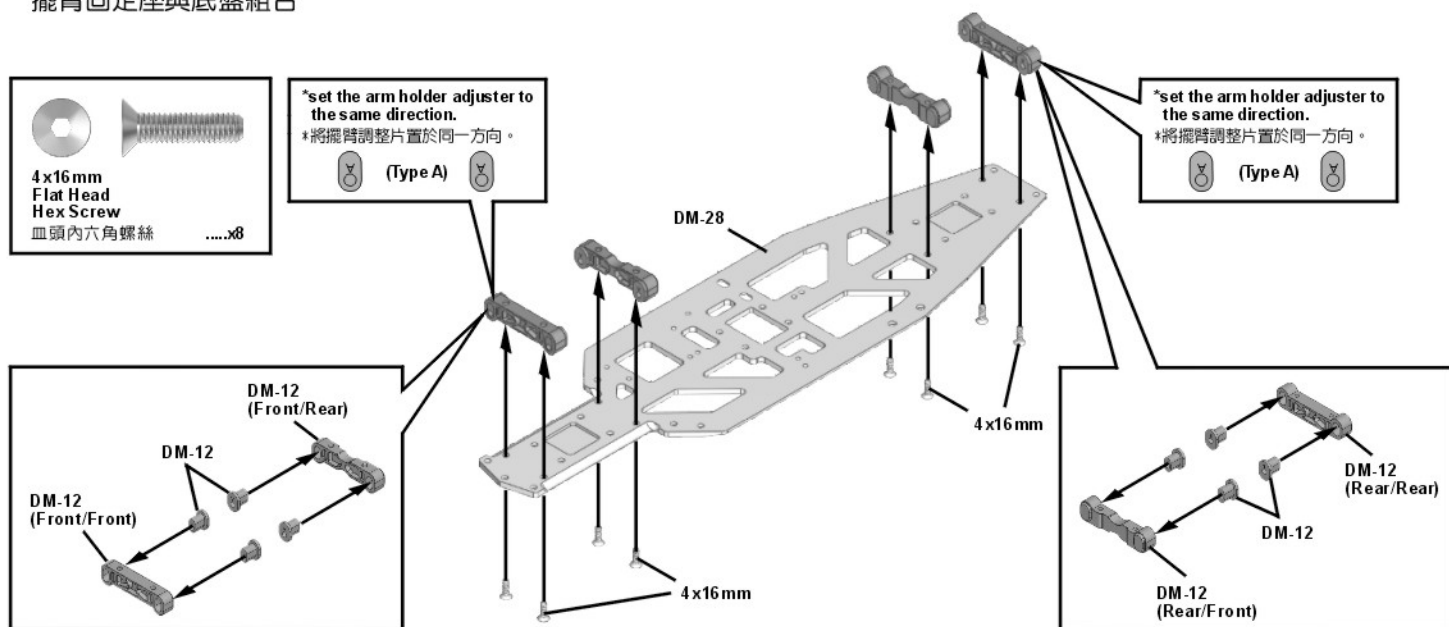
## 18 ASSEMBLY OF THE CENTER MOUNT

單段變速器與中差座組合



## 19 ASSEMBLY OF THE ARM HOLDER ONTO CHASSIS

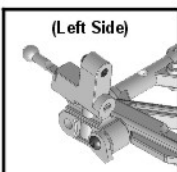
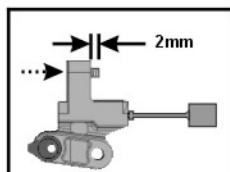
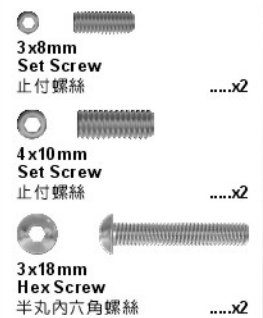
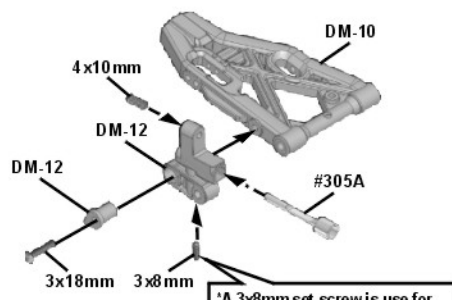
擺臂固定座與底盤組合



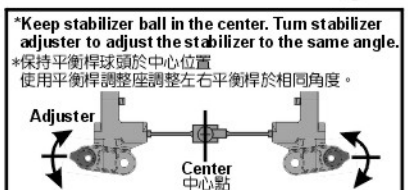
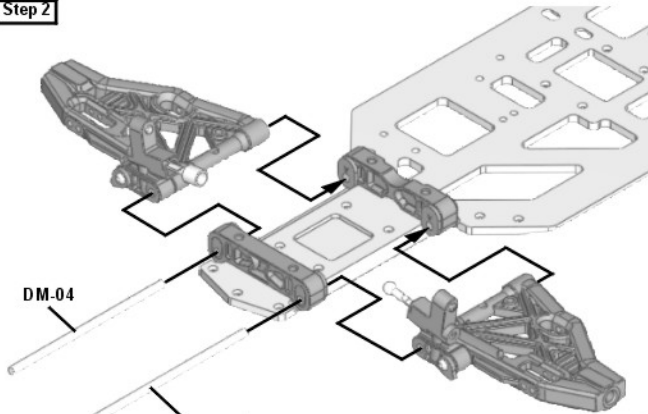
## 20 ASSEMBLY OF THE FRONT LOWER ARMS

### 前下擺臂組合

Step 1



Step 2

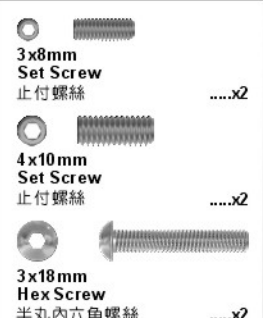
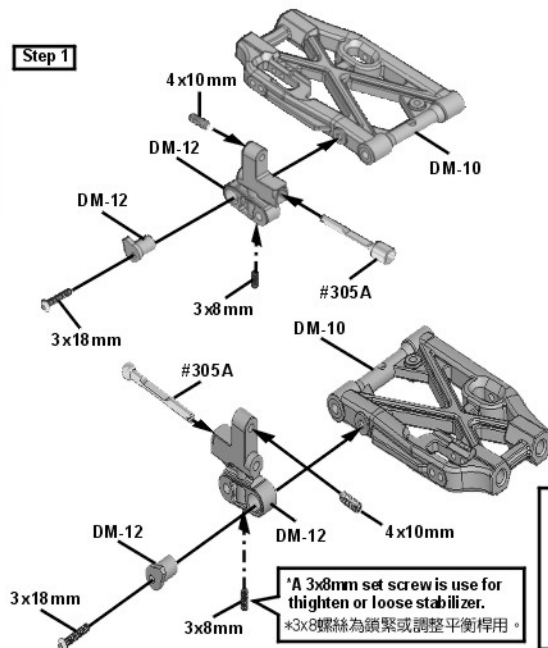


Assemble both right and left sides.  
請組合左 / 右兩側。

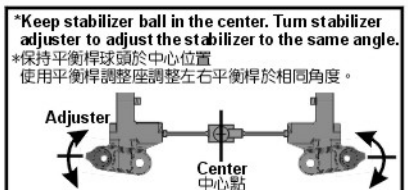
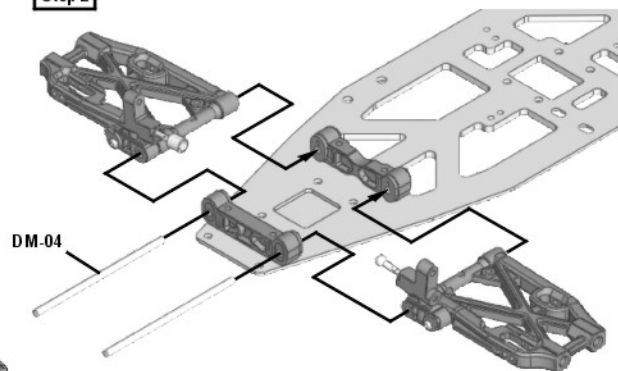
## 21 ASSEMBLY OF THE REAR LOWER ARMS

### 後下擺臂組合

Step 1



Step 2

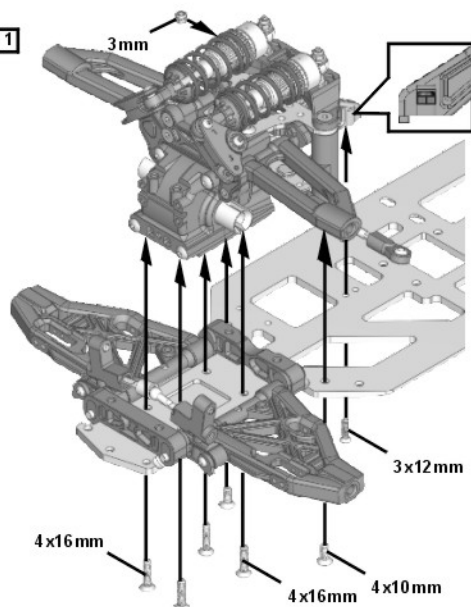


Assemble both right and left sides.  
請組合左 / 右兩側。

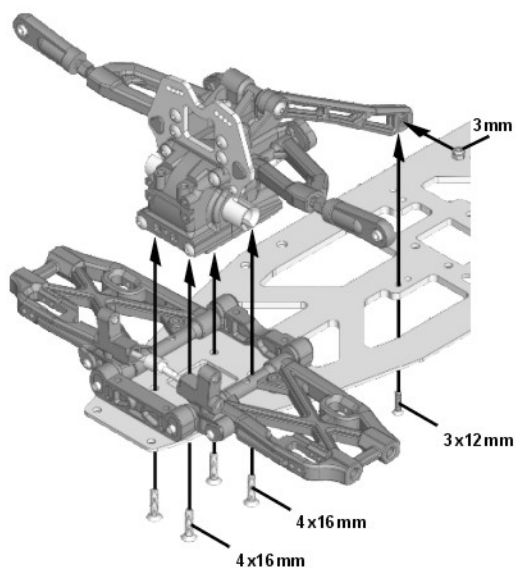
## 22 ASSEMBLY OF THE FRONT AND REAR GEAR BOX ONTO THE CHASSIS

### 前後齒輪箱與底盤組合

Step 1



Step 2

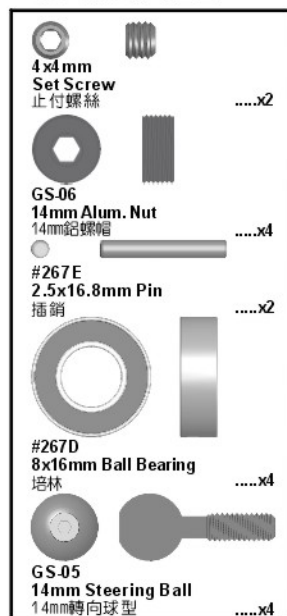




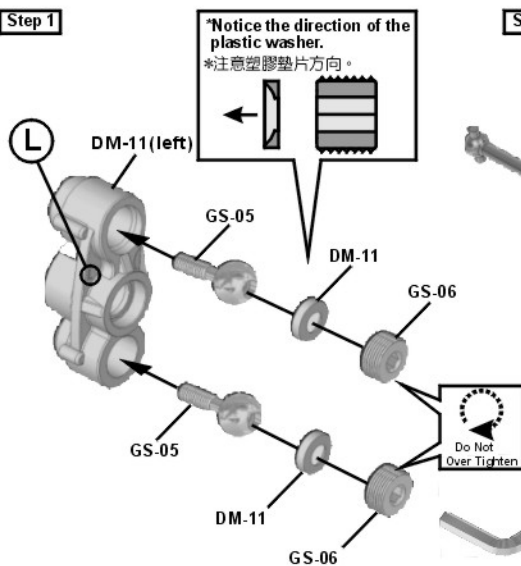
## 23 ASSEMBLY OF THE FRONT KNUCKLE ARMS

### 球型轉向座組合

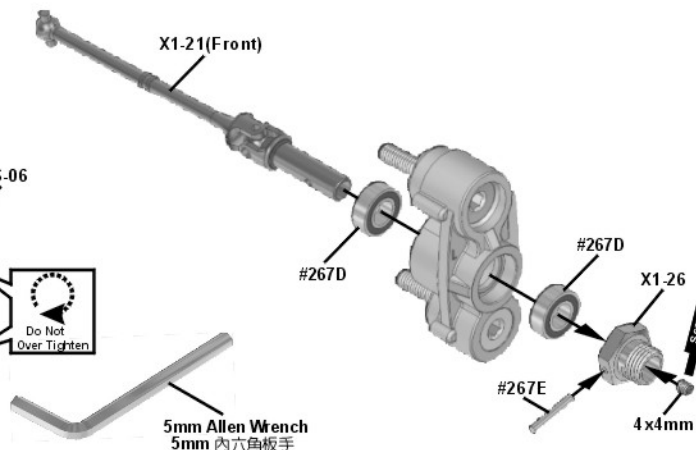
Assemble both right and left sides.  
請組合左 / 右兩側。



Step 1



Step 2



## 24 ASSEMBLY OF THE FRONT SUSPENSION ARMS

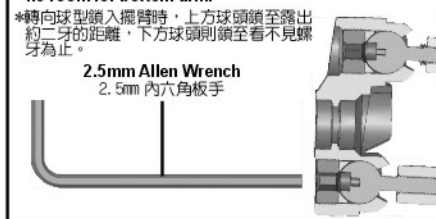
### 前懸吊系統組合

Assemble both right and left sides.  
請組合左 / 右兩側。

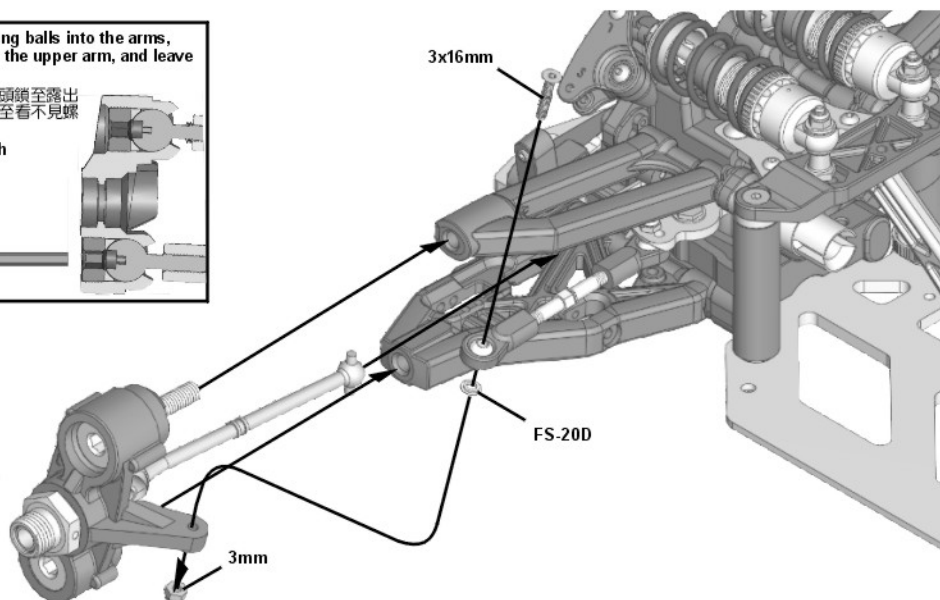
\*When assembling the steering balls into the arms, leave about two threads for the upper arm, and leave no room for bottom arm.

\*轉向球型鎖入擺臂時，上方球頭鎖至露出約二牙的距離，下方球頭則鎖至看不見螺牙為止。

2.5mm Allen Wrench 2.5mm 內六角板手



\*Put the drive shaft into cap joint before assembly.  
\*組合前請先放入傳動軸。



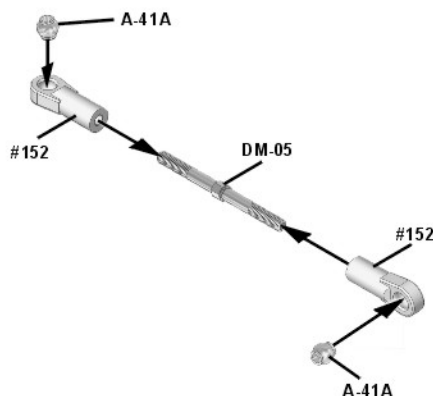
## 25 ASSEMBLY OF THE FRONT PUSH RODS

### 前懸吊推桿系統組合

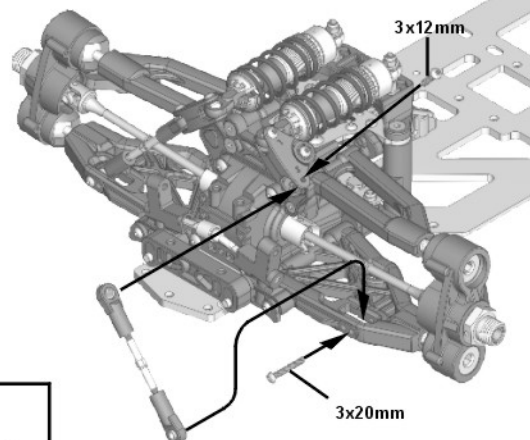
Assemble both right and left sides.  
請組合左 / 右兩側。



Step 1



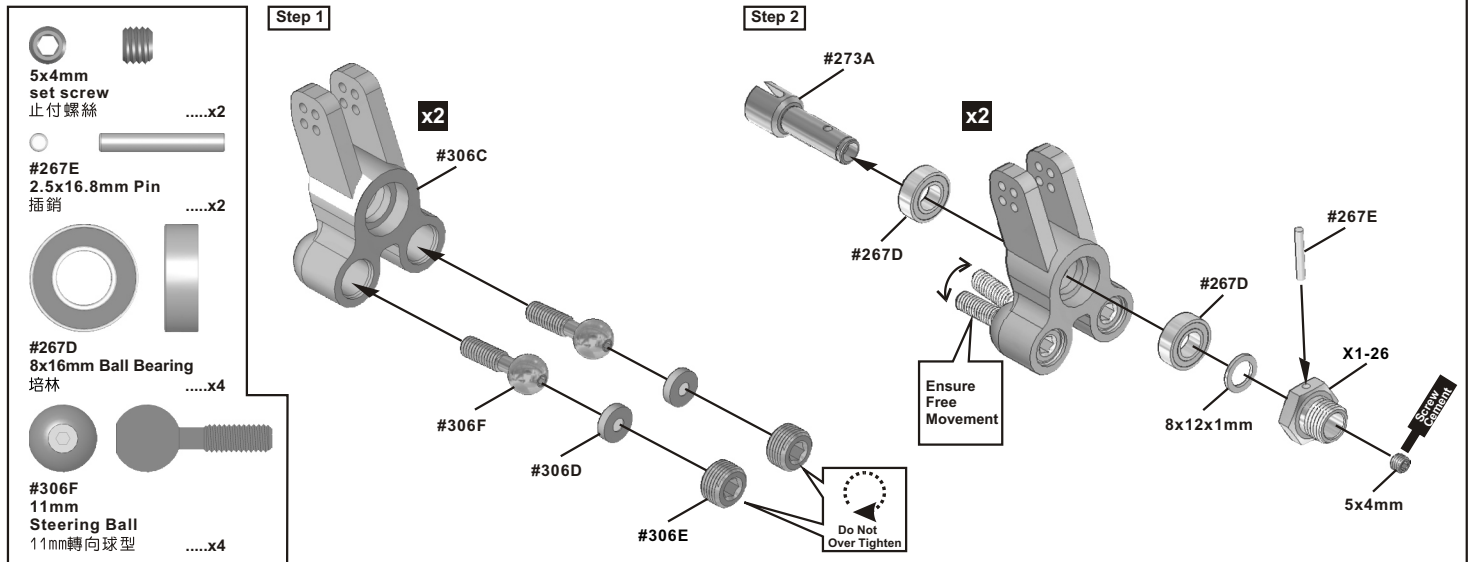
Step 2



## 26 ASSEMBLY OF THE REAR WHEEL HUB

球型後輪座組合

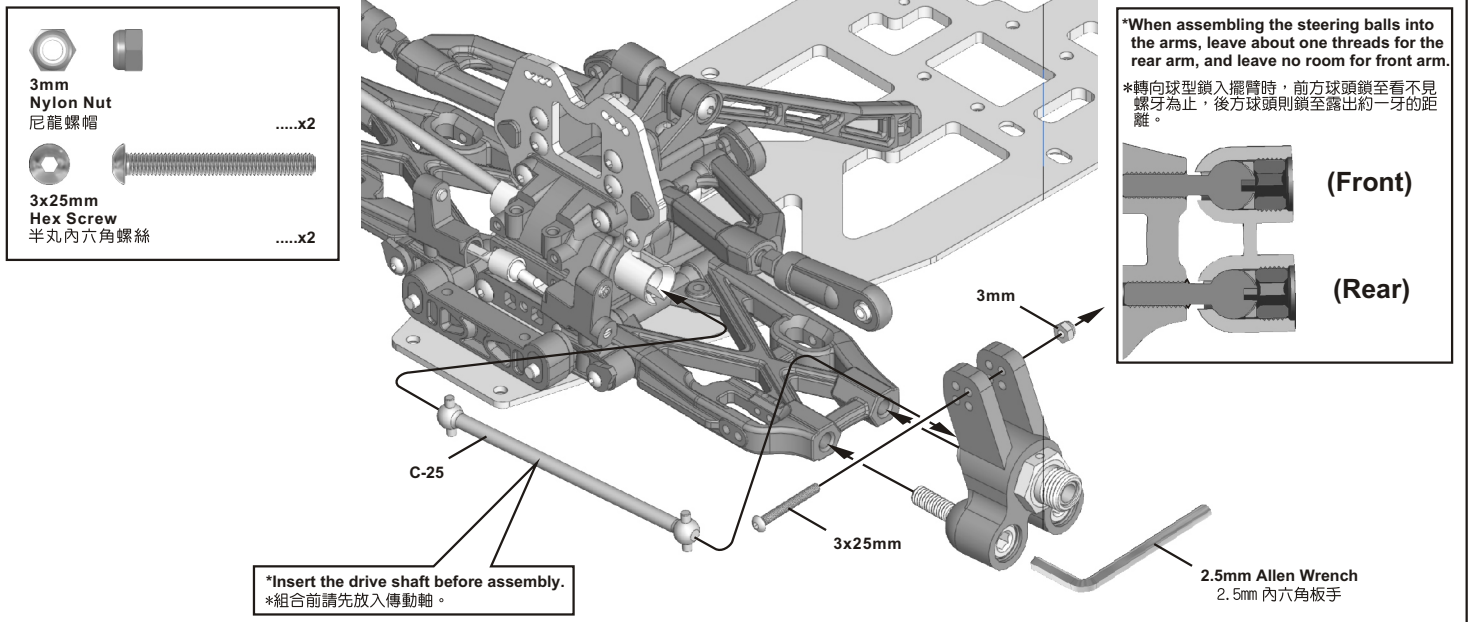
Assemble both right and left sides.  
請組合左 / 右兩側。



## 27 ASSEMBLY OF THE REAR SUSPENSION ARMS

後懸吊系統組合

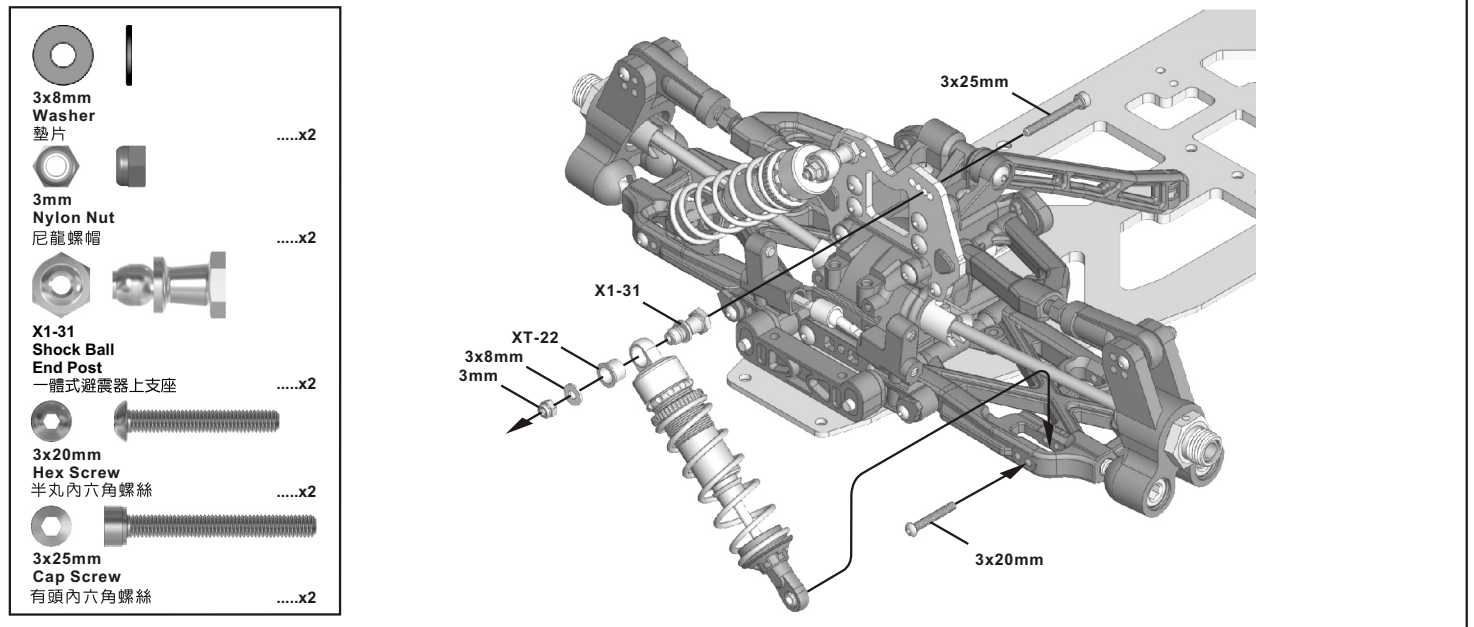
Assemble both right and left sides.  
請組合左 / 右兩側。



## 28 ASSEMBLY OF THE REAR SHOCK ABSORBER

後避震器與後油壓架組合

Assemble both right and left sides.  
請組合左 / 右兩側。



## 29 ASSEMBLY OF THE TWO SPEED TRANSMISSION ONTO THE CHASSIS

### 二段變速器與底盤組合

\* Insert drive shaft into cap joint before assembly two speed onto chassis.  
\* 組裝二段變速器前請先放入中央傳動軸於接杯內。

DM-29(90mm)

DM-29(97mm)

DM-29(90mm)

Screw Cement

4x10mm

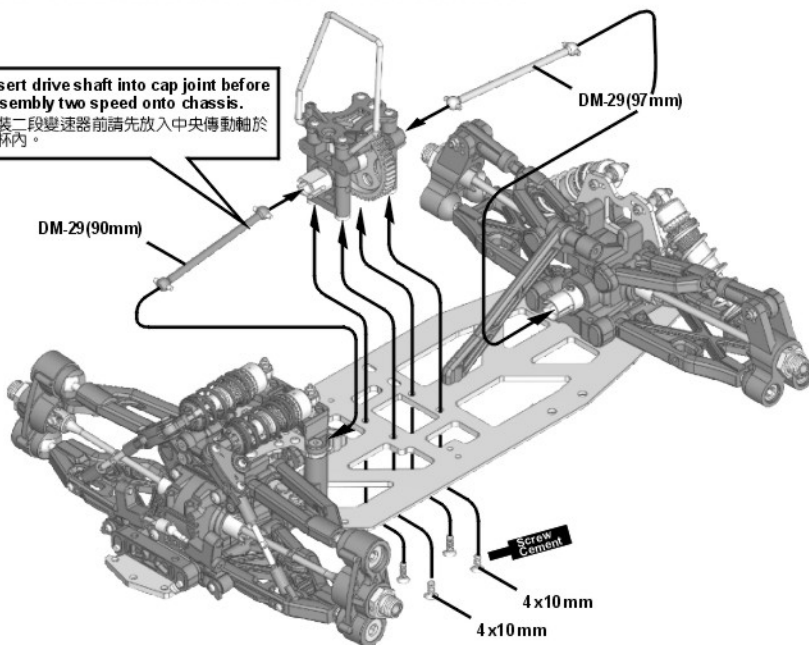
4x10mm



A-77 C  
P5 O-Ring  
O環 .....x4



4x10mm  
Flat Head  
Hex Screw  
皿頭內六角螺絲 .....x4



## 30 MOTOR INSTALLATION

### 馬達安裝

Option Gear:

改裝齒輪

#397-12 (12T)

#397-14 (14T)

#394-15 (15T)

#394-16 (16T)

#394-17 (17T)

Motor(Not Included)

馬達(另購)

R-02

4x4mm

Screw Cement

3x10mm

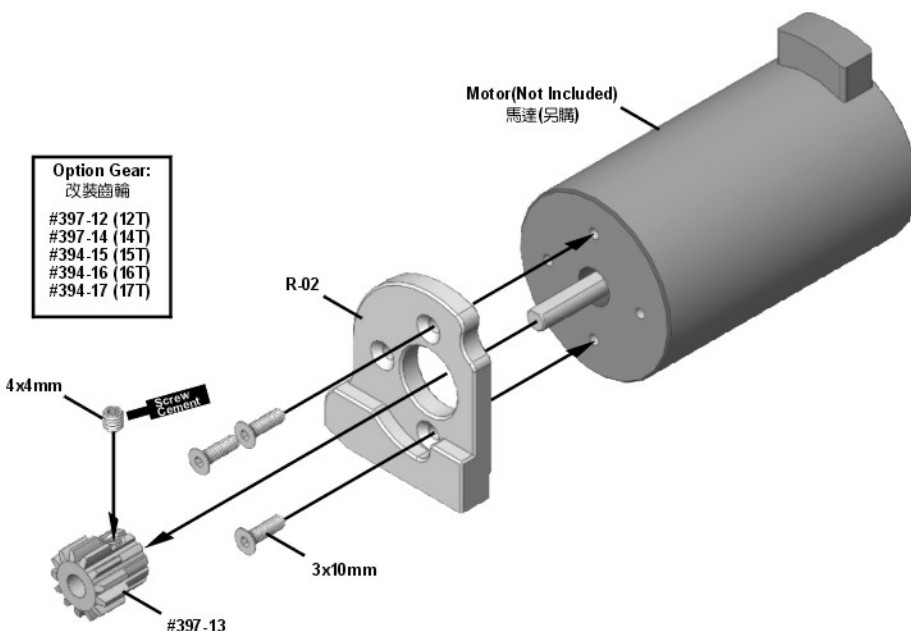
#397-13



4x4mm  
Set Screw  
止付螺絲 .....x1



3x10mm  
Flat Head  
Hex Screw  
皿頭內六角螺絲 .....x3

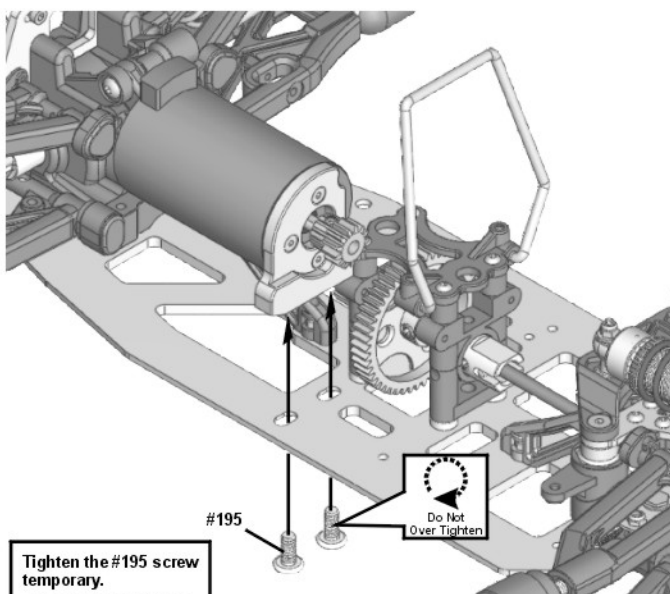
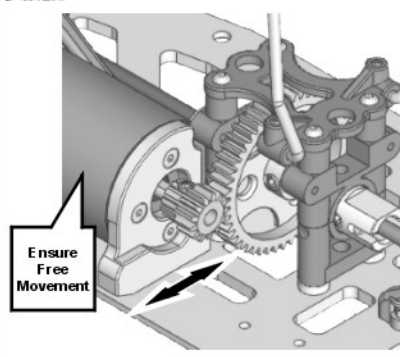


## 31 ASSEMBLY OF THE MOTOR MOUNT ONTO CHASSIS

### 馬達座與底盤組合

Step detail

步驟細節



#195  
5mm  
Engine Mount Screw  
內六角引擎座螺絲 .....x2

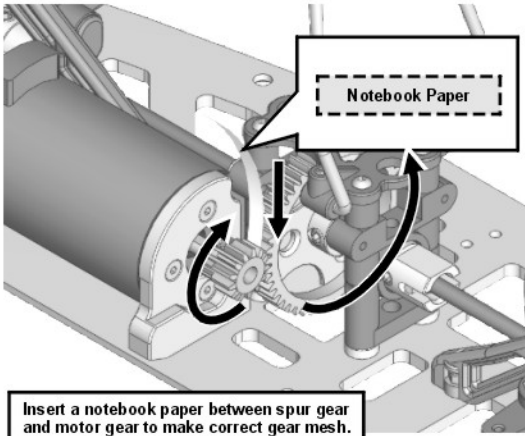
Tighten the #195 screw temporary.  
暫時鎖緊 #195 螺絲。



Do Not Over Tighten

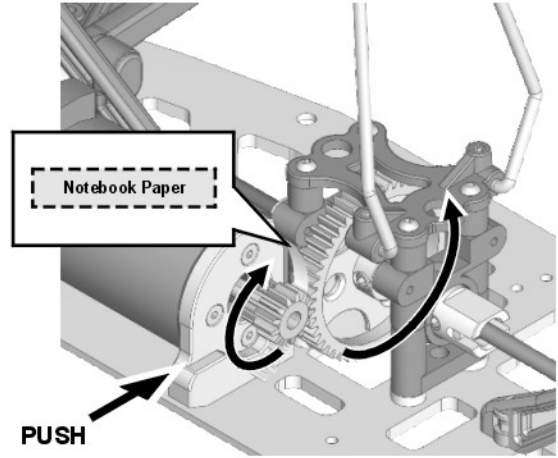


Step 1

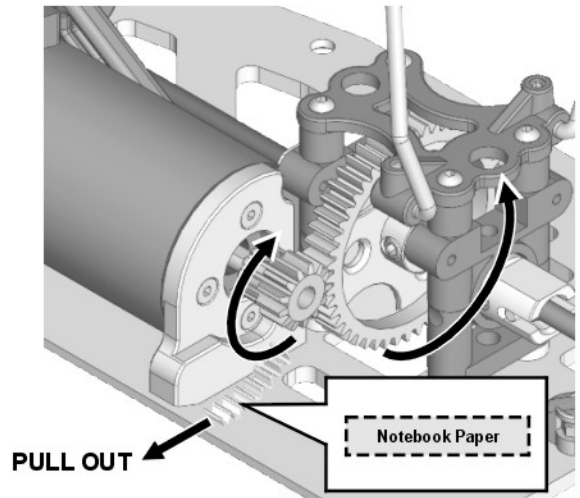


Insert a notebook paper between spur gear and motor gear to make correct gear mesh.  
插入一張筆記本紙在大直齒和馬達齒之間取得正確齒輪間隙。

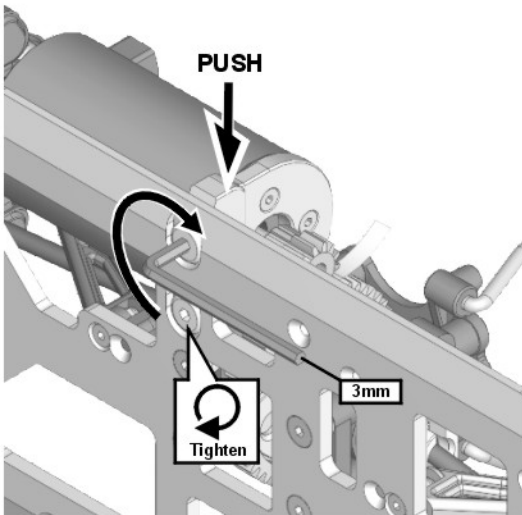
Step 2



Step 4



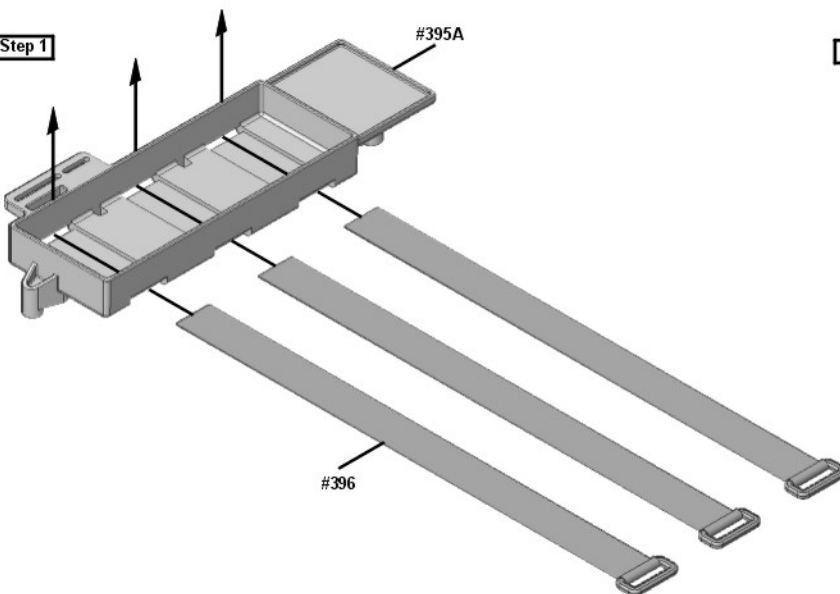
Step 3



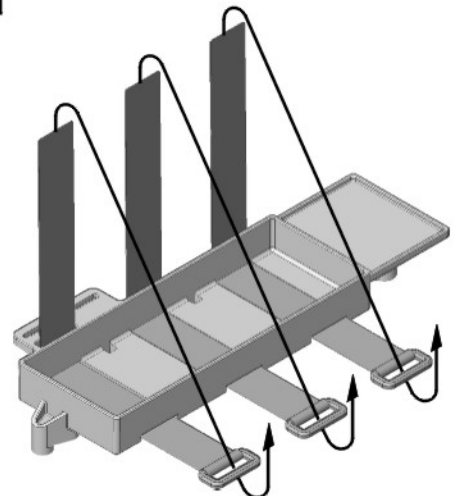
- Adjust the motor mount position to get proper gear mesh.  
調整馬達座位置取得齒輪間隙。
- To get a perfect gear mesh, place a piece of notebook paper between the gears and tighten the motor mount screws.  
要取得完美的齒輪間隙，需放置一張筆記本紙在齒輪之間並鎖緊馬達座螺絲。
- The spur gear may be damaged if the gear mesh not correct.  
如果齒輪間隙不正確會導致大直齒損壞。

33 ASSEMBLY OF THE VELCRO INTO BATTERY CASE  
組合魔術粘束帶至電池盒

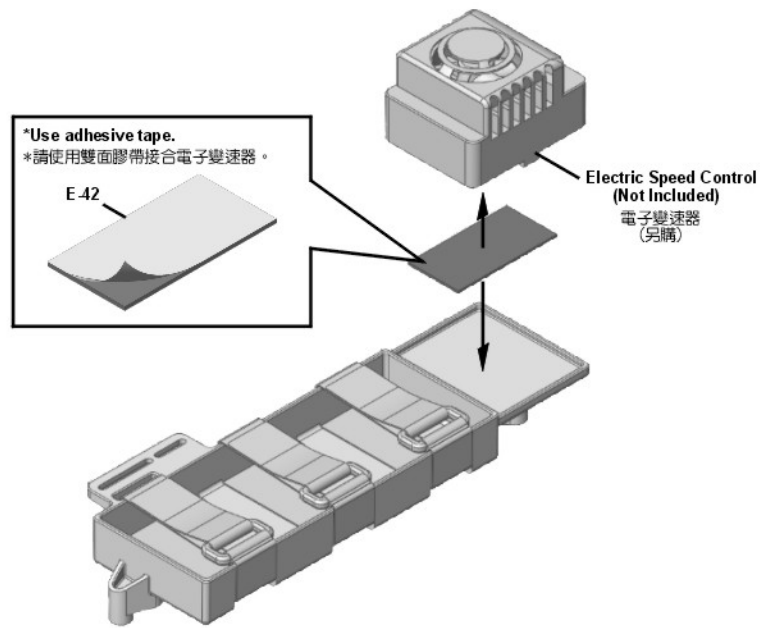
Step 1



Step 2

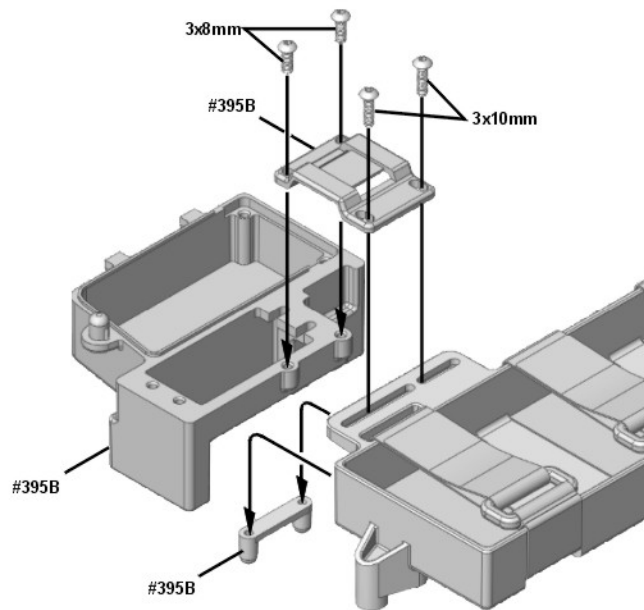


**34 ASSEMBLY OF THE ELECTRIC SPEED CONTROL ONTO BATTERY CASE**  
 組合電子變速器至電池盒

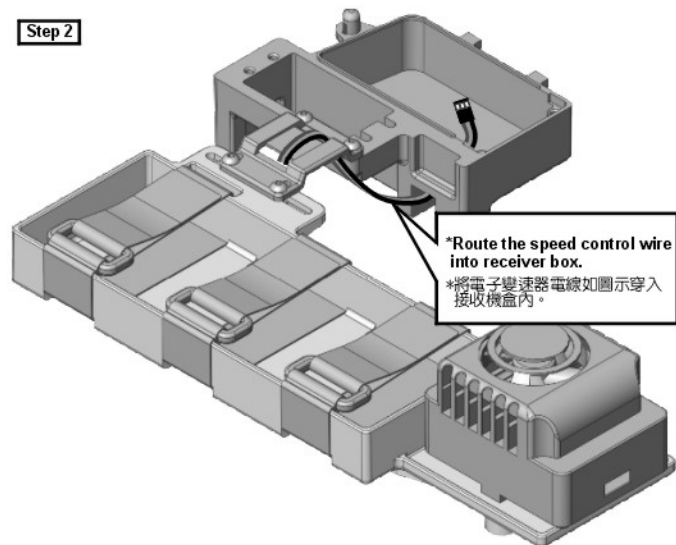
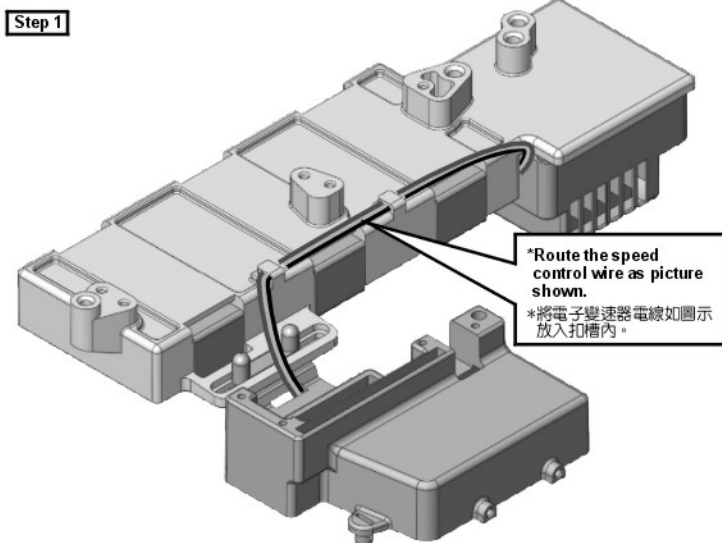


**35 ASSEMBLY OF THE WIRE BRIDGE ONTO BATTERY CASE AND RECEIVER BOX**  
 組合電線座至電池盒

-  3x8mm Hex Screw .....x2  
半丸內六角螺絲
-  3x10mm Hex Screw .....x2  
半丸內六角螺絲

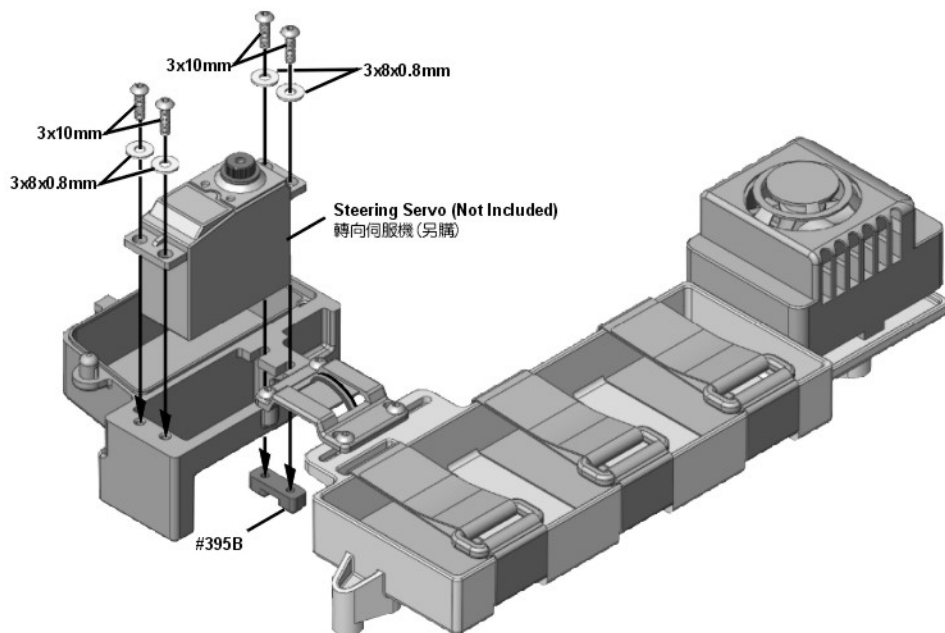


**36 ASSEMBLY OF THE ELECTRIC SPEED CONTROL WIRE INTO RADIO CASE**  
 組合電子變速器導線至接收機盒



### 37 ASSEMBLY OF THE STEERING SERVO ONTO RADIO CASE

組合轉向伺服機至接收機盒

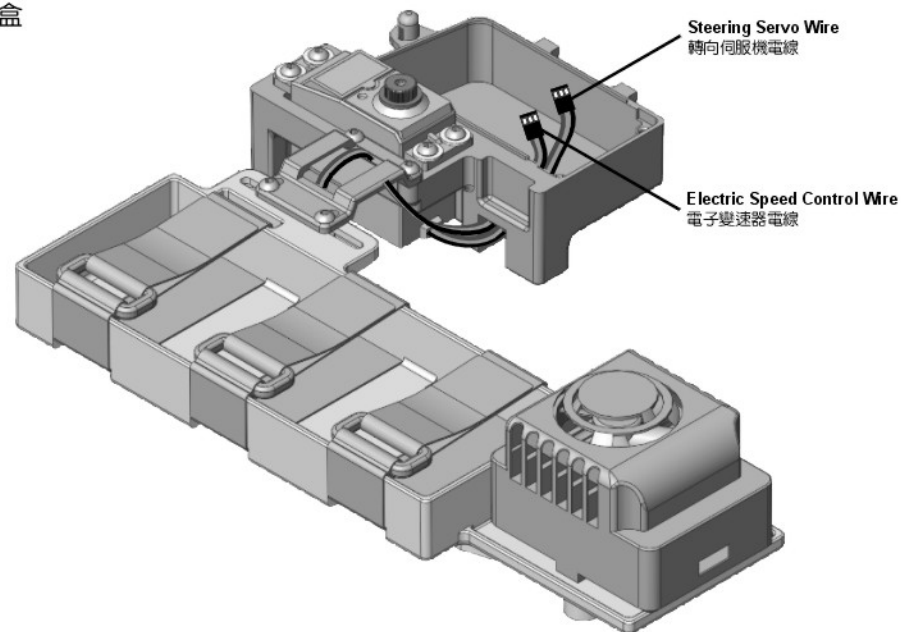


3x10mm  
Hex Screw  
半丸內六角螺絲 .....x4

3x8x0.8mm  
Washer  
墊片 .....x4

### 38 ASSEMBLY OF THE STEERING SERVO WIRE INTO RADIO CASE

組合伺服機電線至接收機盒



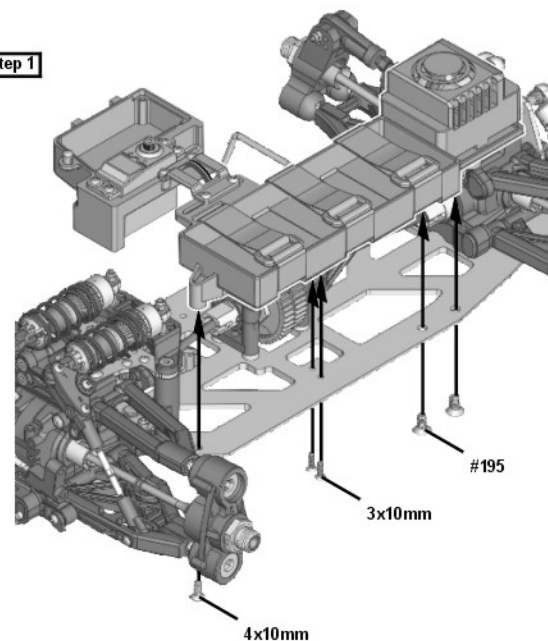
Steering Servo Wire  
轉向伺服機電線

Electric Speed Control Wire  
電子變速器電線

### 39 ASSEMBLY OF THE RADIO CASE ONTO CHASSIS

組合接收機盒至底盤

Step 1

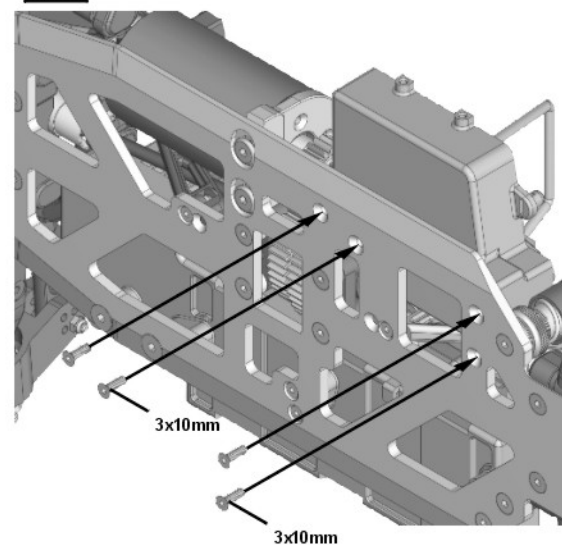


3x10mm  
Flat Head Hex Screw  
血頭內六角螺絲 .....x6

4x10mm  
Flat Head Hex Screw  
血頭內六角螺絲 .....x1

#195  
5mm  
Engine Mount Screw  
內六角引擎座螺絲 .....x2

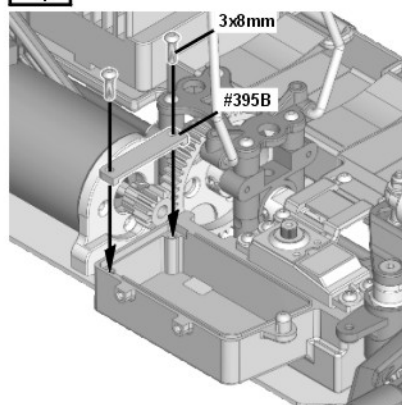
Step 2



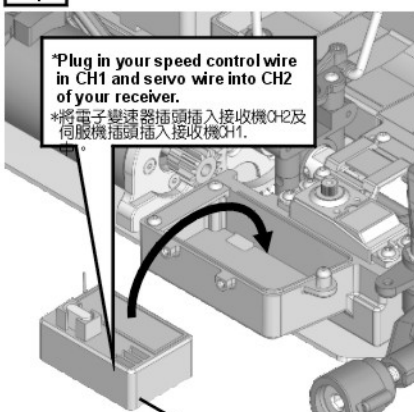
## 40 ASSEMBLY OF THE RECEIVER INTO RADIO CASE

組合接收機至接收機盒

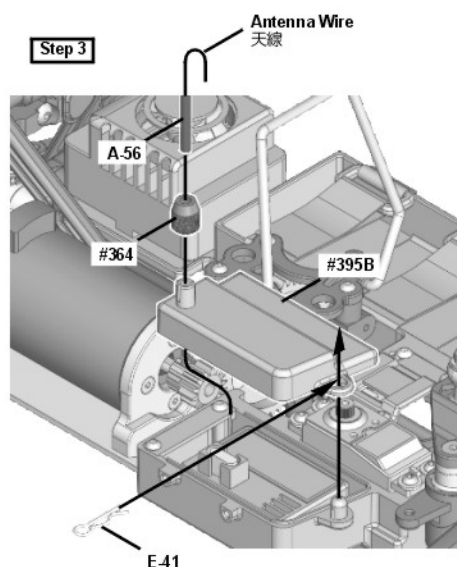
Step 1



Step 2



Step 3

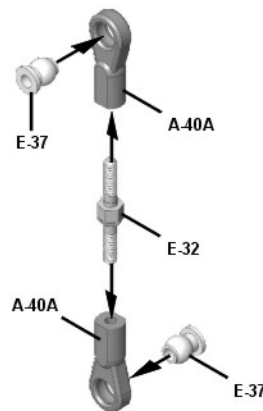


Receiver  
(Not Included)  
接收機  
(另購)

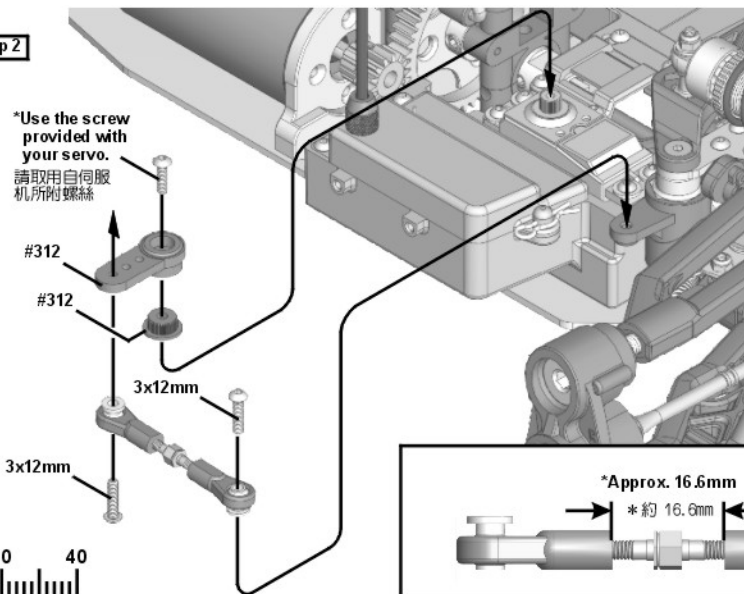
## 41 ASSEMBLY OF THE STEERING ROD ONTO RADIO CASE

組合轉向拉桿至接收機盒

Step 1

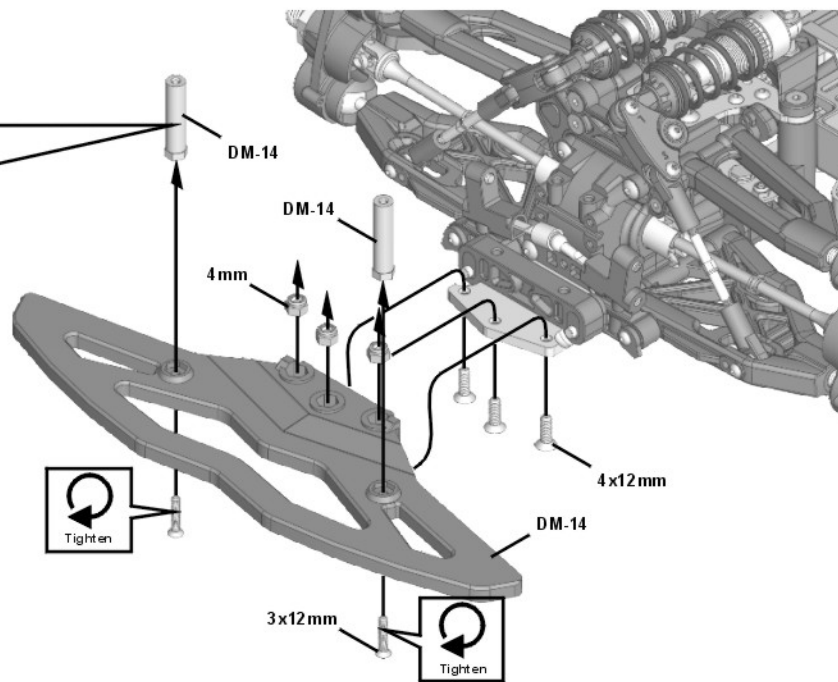
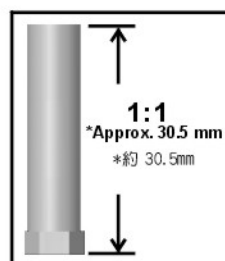


Step 2



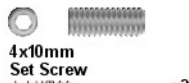
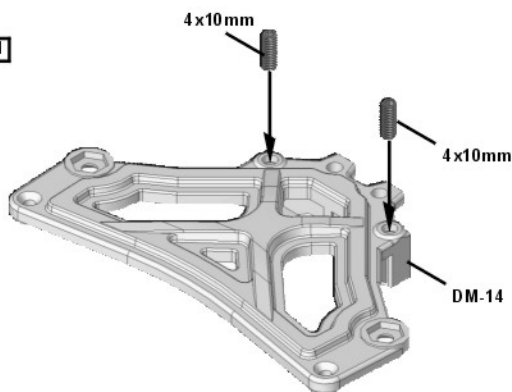
## 42 ASSEMBLY OF THE FRONT BUMPER

前防撞板組合



### 43 ASSEMBLY OF THE FRONT BODY SUPPORT 前車殼支柱組合

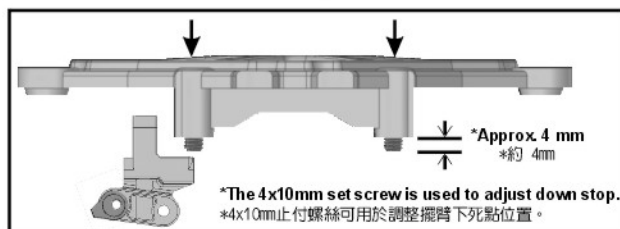
Step 1



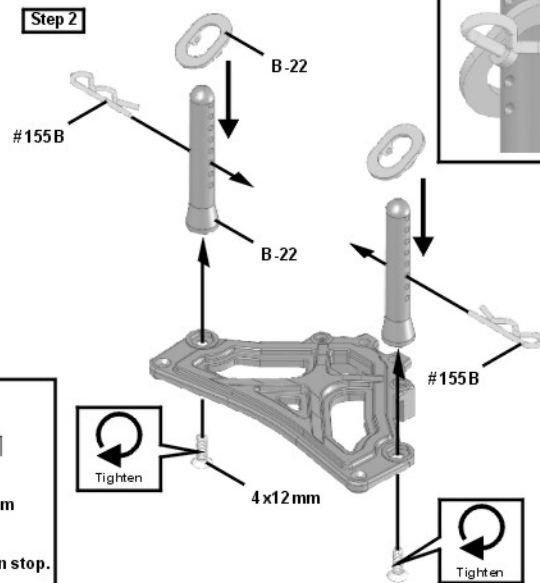
4x10mm Set Screw  
止付螺絲 .....x2



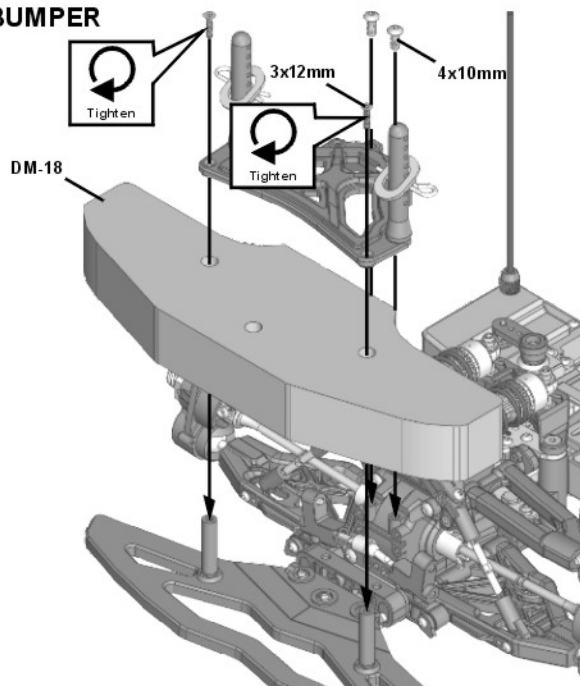
4x12mm Flat Head Hex Screw  
血頭內六角螺絲 .....x2



Step 2



### 44 ASSEMBLY OF THE FRONT FOAM BUMPER 前防撞板組合

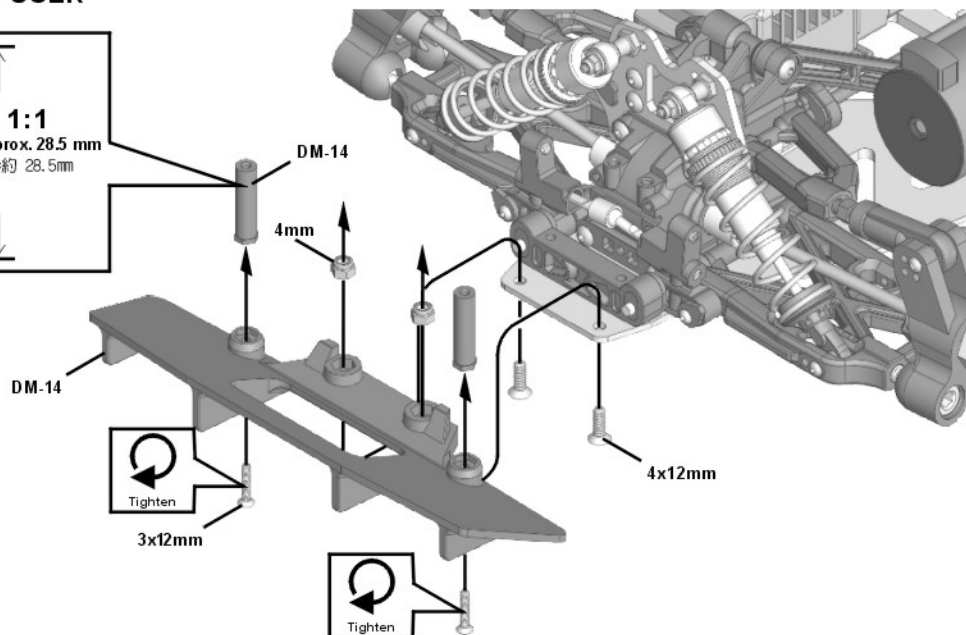
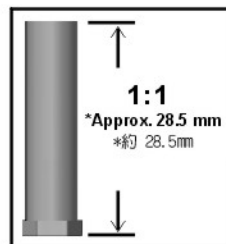


3x12mm Flat Head Hex Screw  
血頭內六角螺絲 .....x2



4x10mm Hex Screw  
半丸內六角螺絲 .....x2

### 45 ASSEMBLY OF THE REAR DIFFUSER 後導流板組合



4mm Nylon Nut  
尼龍螺帽 .....x2



3x12mm Flat Head Hex Screw  
血頭內六角螺絲 .....x2

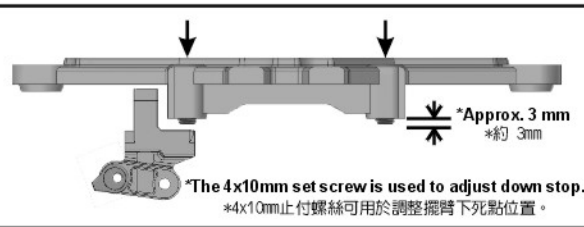
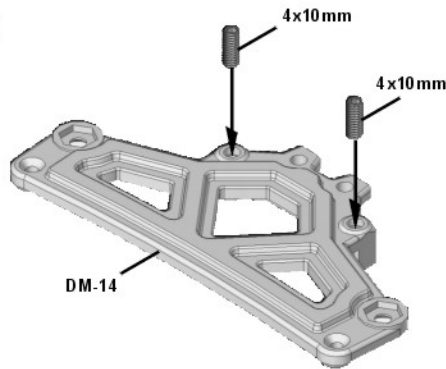


4x12mm Flat Head Hex Screw  
血頭內六角螺絲 .....x2



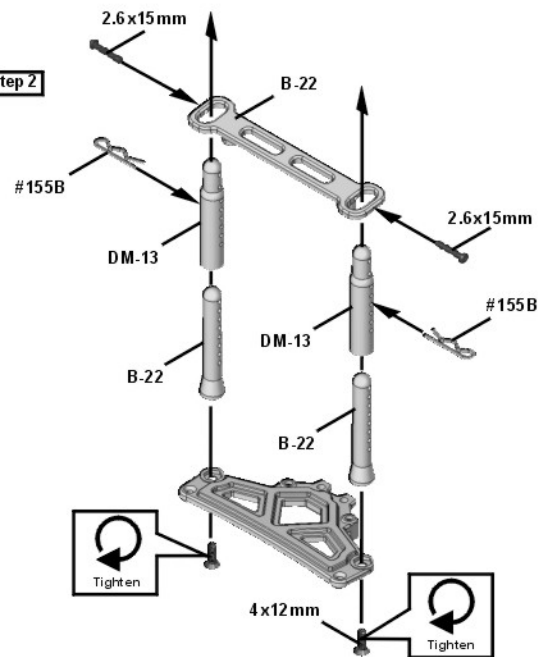
## 46 ASSEMBLY OF THE REAR BODY SUPPORT 後車殼支柱組合

Step 1

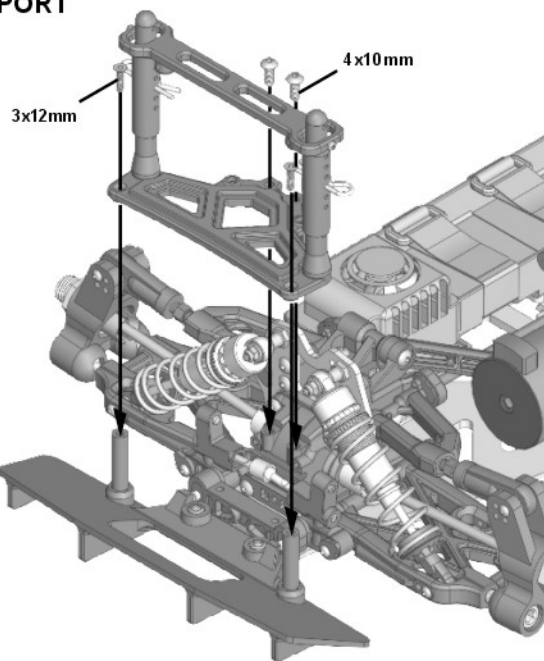


- 4x10mm Set Screw 止付螺絲 .....x2
- 2.6x15mm Screw 半丸十字螺絲 .....x2
- 4x12mm Flat Head Hex Screw 圓頭內六角螺絲 .....x2

Step 2



## 47 ASSEMBLY OF THE REAR BODY SUPPORT ONTO DEFFUSER 後導流板與車殼支柱組合

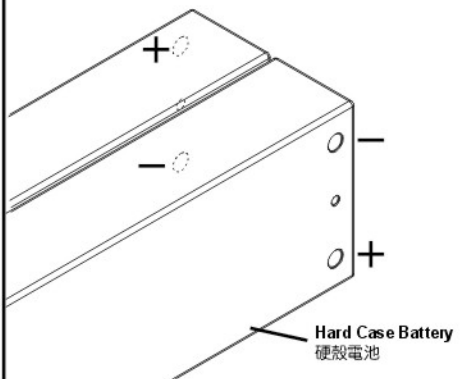


- 3x12mm Hex Screw 半丸內六角螺絲 .....x2
- 4x10mm Hex Screw 半丸內六角螺絲 .....x2

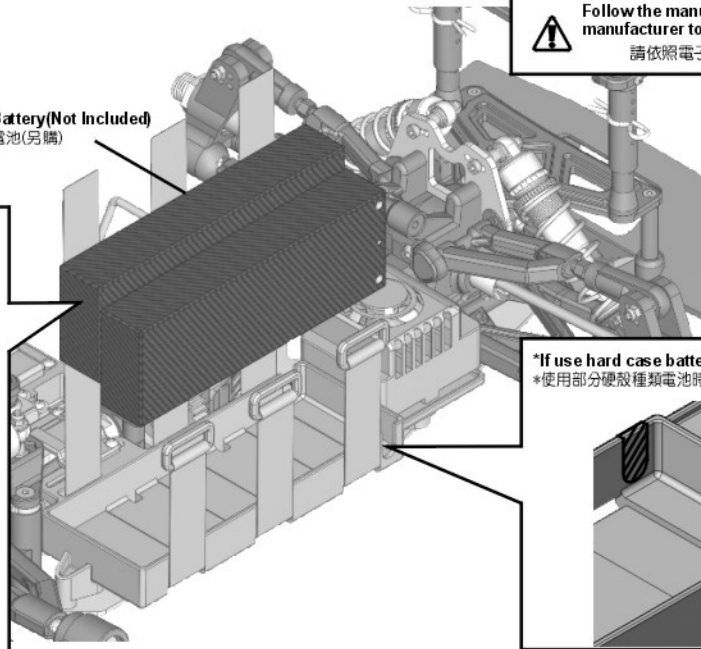
## 48 BATTERY INSTALL 安裝電池

Follow the manual instruction provided by ESC manufacturer to install the wire.  
請依照電子變速器製造商建議安裝電線。

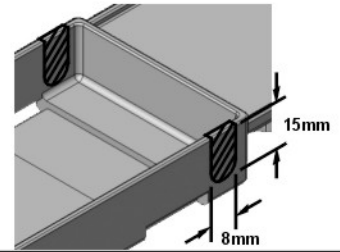
\*Be aware of the direction of the battery.  
\*電線跨接時請注意正負極方向。



Battery (Not Included)  
電池(另購)



\*If use hard case battery, make a hole as picture shown.  
\*使用部分硬殼種類電池時，須在電池盒上裁出如圖所示的開口。



## 49 ASSEMBLY OF THE TIRES AND WHEELS

### 輪胎與輪圈組合

\*Notice the direction of the tires.  
請注意輪胎方向性

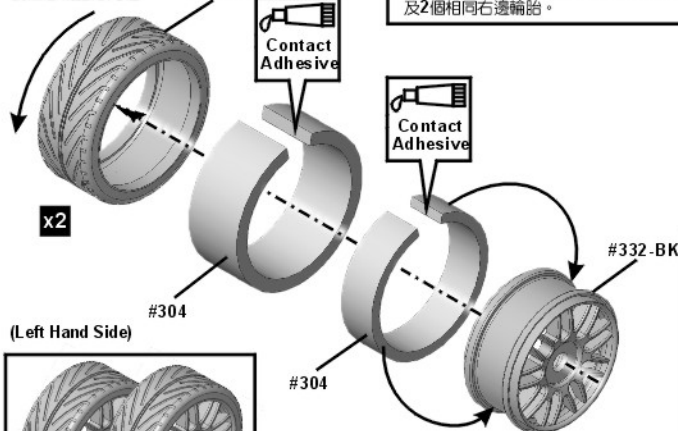
BT-110



\*Notice the direction of the tires. Make two the same for the left and two for the right. Check the rotation direction before gluing.  
\*請注意輪胎方向性，並組合2個相同左邊輪胎及2個相同右邊輪胎。



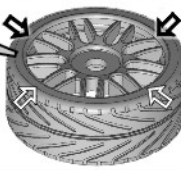
\*Notice the direction of the tires.  
請注意輪胎方向性



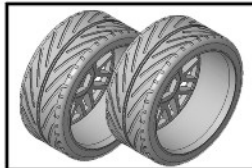
(Left Hand Side)



\*Pull back the tire bead slightly and spot glue in four spots as shown. When dry, glue the rest of the wheel between the spots. Repeat the procedure on the other side of the wheel until fully glued.  
\*請在輪圈與輪胎接合處用「瞬間膠水」粘合。並等其乾固之後再粘合另外一面。請確定輪胎與輪圈正確粘合，以避免脫落。



(Right Hand Side)



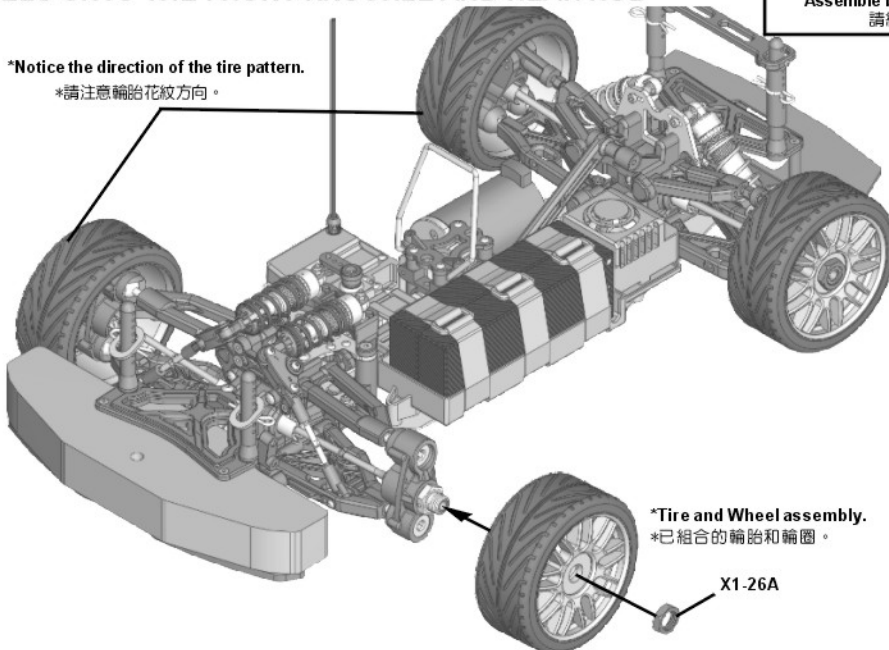
## 50 ASSEMBLY OF THE WHEELS ONTO THE FRONT KNUCKLE AND REAR HUB

### 安裝輪胎至車體

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

Step 1

\*Notice the direction of the tire pattern.  
\*請注意輪胎花紋方向。



\*Tire and Wheel assembly.  
\*已組合的輪胎和輪圈。

X1-26A

X1-26A  
Wheel Nut  
鋁六角螺帽

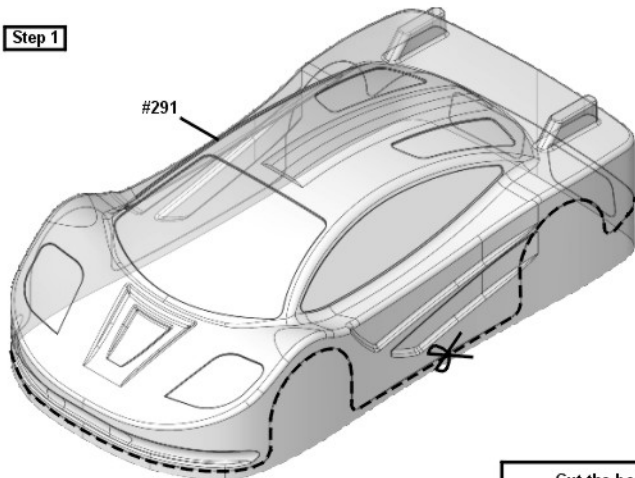
....x4

## 51 MAKING HOLES AND CUTTING ON THE BODY SHELL

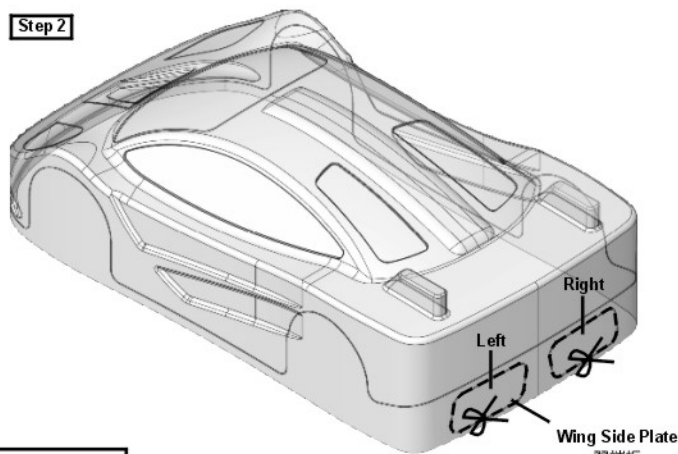
### 鑽孔與剪裁車殼

Step 1

#291



Step 2

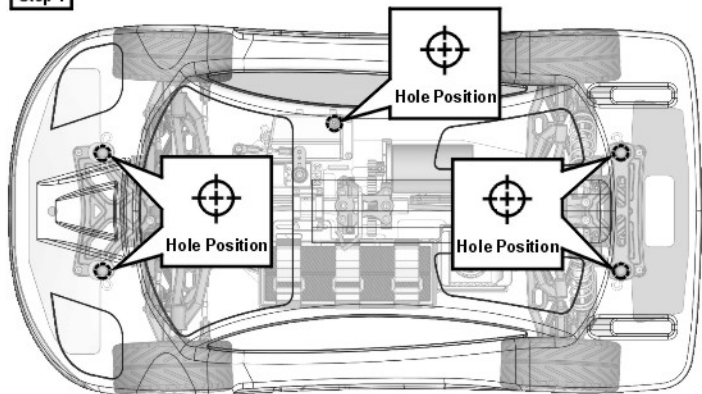


Cut the body shell as shown.  
如圖示剪裁車殼。

## 52 MAKING HOLES AND CUTTING ON THE BODY SHELL

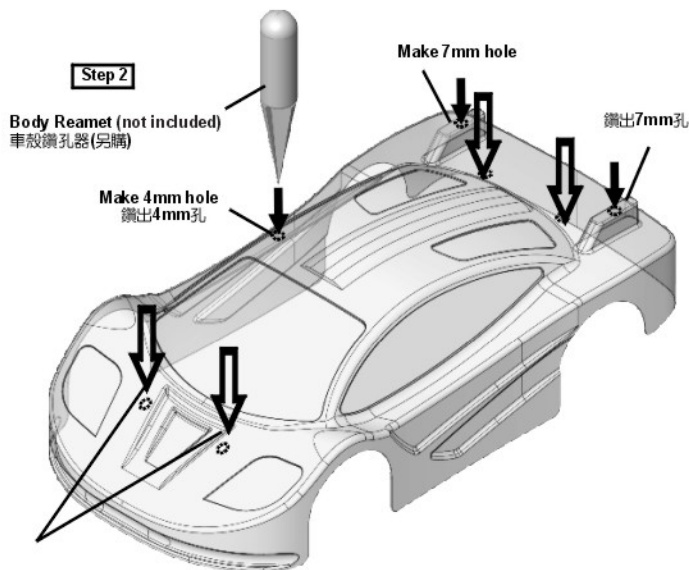
鑽孔與剪裁車殼

Step 1



Before making holes on the body, put the unpainted body on the chassis to confirm the mounting position and location for holes.  
在鑽孔之前請先確認車殼支柱位置。

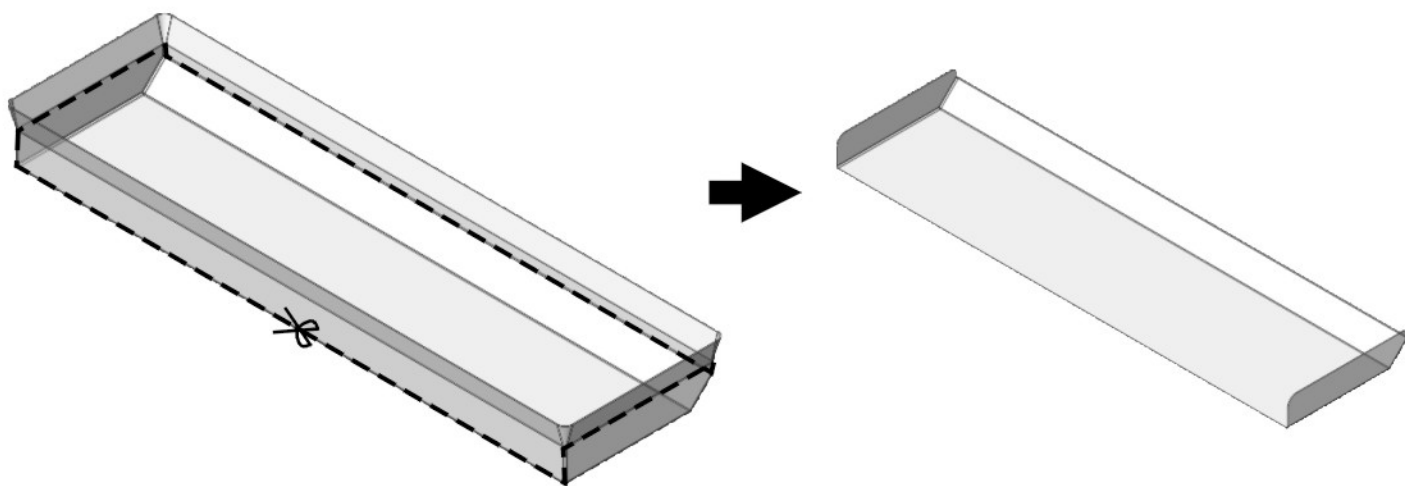
Step 2



Make 9mm hole on the body shell as shown.  
如圖示在車殼上鑽出9mm孔。

## 53 MAKING HOLES AND CUTTING ON THE WING

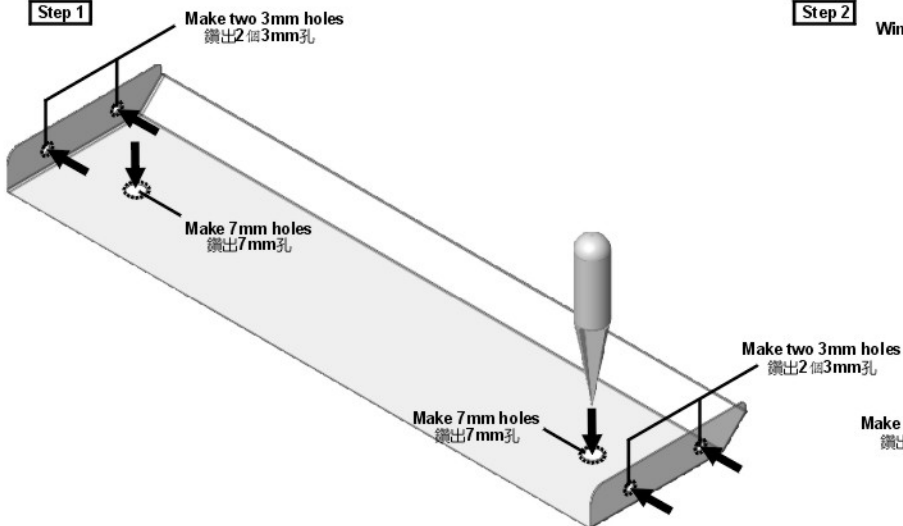
鑽孔與剪裁定風翼



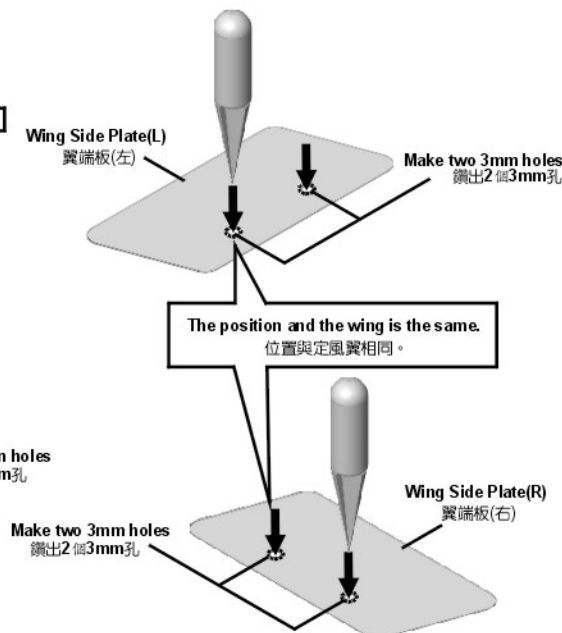
## 54 MAKING HOLES AND CUTTING ON THE WING

鑽孔與剪裁定風翼

Step 1



Step 2

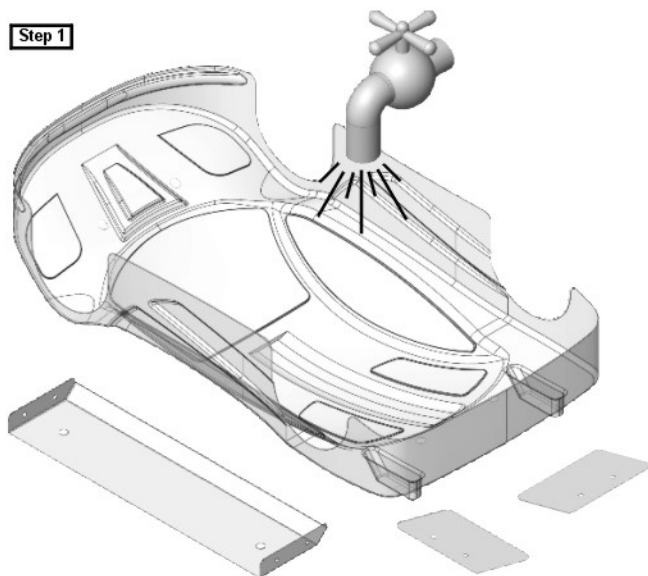


## 55 WASH THE INSIDE OF THE BODY SHELL

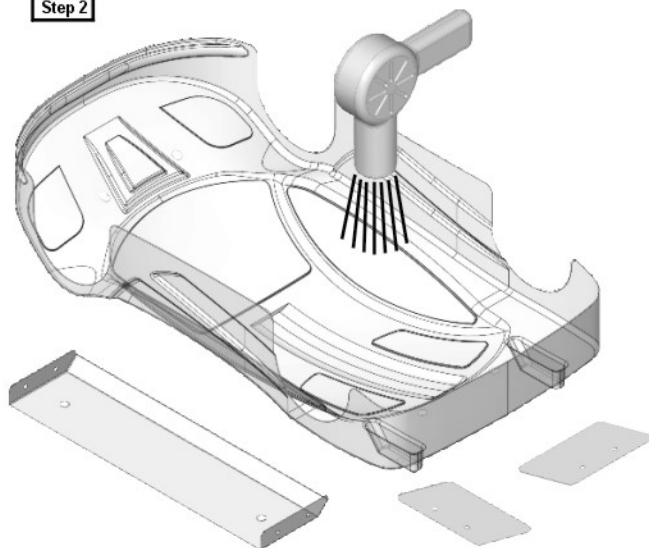
清洗車殼內部

Wash the inside of the body shell with mild detergent, and then rinse and dry thoroughly.  
用中性清潔劑清洗車身內部，然後沖洗乾淨並充分烘乾。

Step 1



Step 2

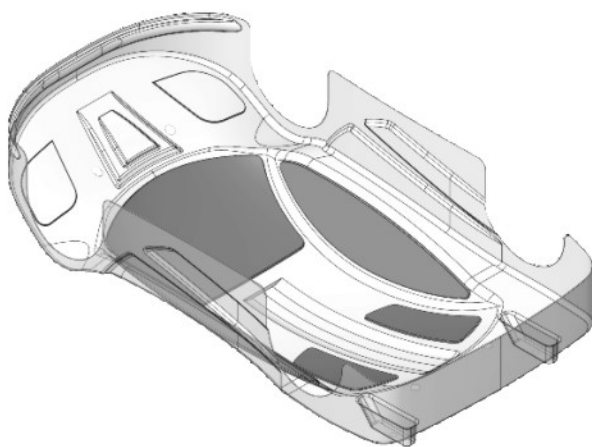


## 56 PAINTING BODY SHELL

塗裝車殼

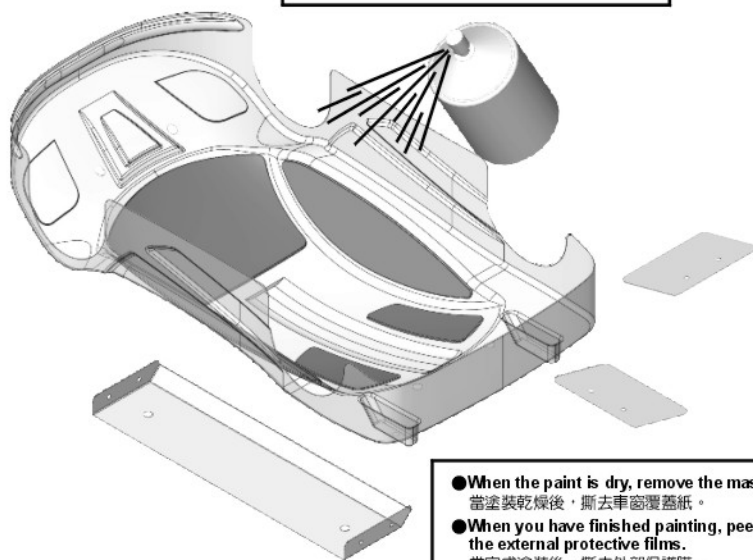
Step 1

Mask the windows on the inside with masking tape.  
使用車窗覆蓋紙由內面貼上車窗部份。



Step 2

Paint the body with polycarbonate spray paints.  
由內面貼上彩繪貼紙再使用車殼專用噴漆塗裝車殼。

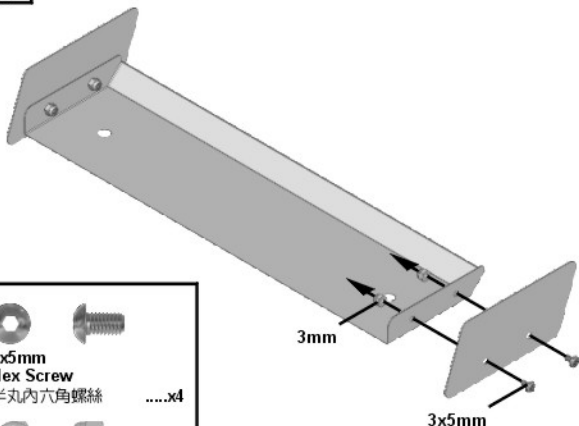


- When the paint is dry, remove the masking.  
當塗裝乾燥後，撕去車窗覆蓋紙。
- When you have finished painting, peel off the external protective films.  
當完成塗裝後，撕去外部保護膜。

## 57 ASSEMBLY OF THE WING ONTO THE BODY SHELL

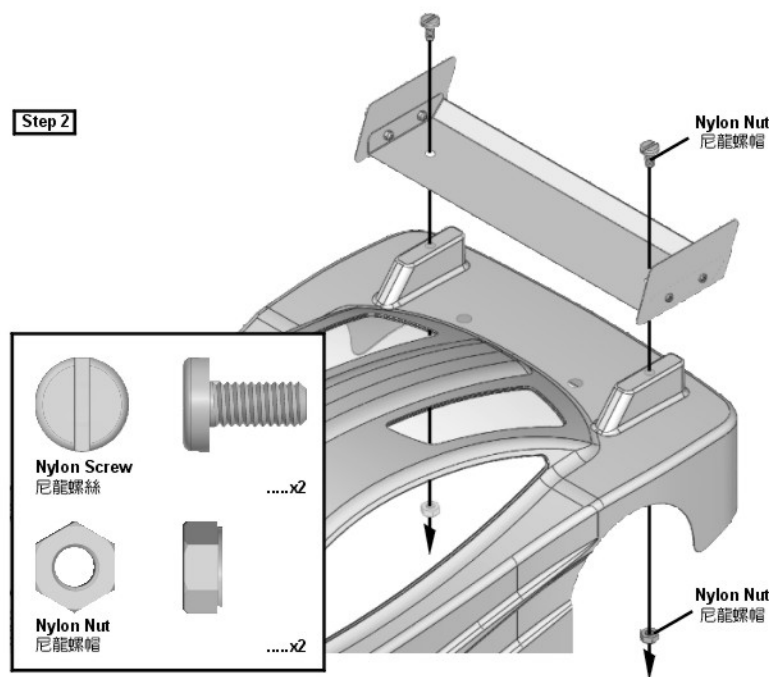
定風翼組裝至車殼

Step 1



- |  |  |                               |         |
|--|--|-------------------------------|---------|
|  |  | 3x5mm<br>Hex Screw<br>半丸內六角螺絲 | .....x4 |
|  |  | 3mm<br>Nylon Nut<br>尼龍螺帽      | .....x4 |

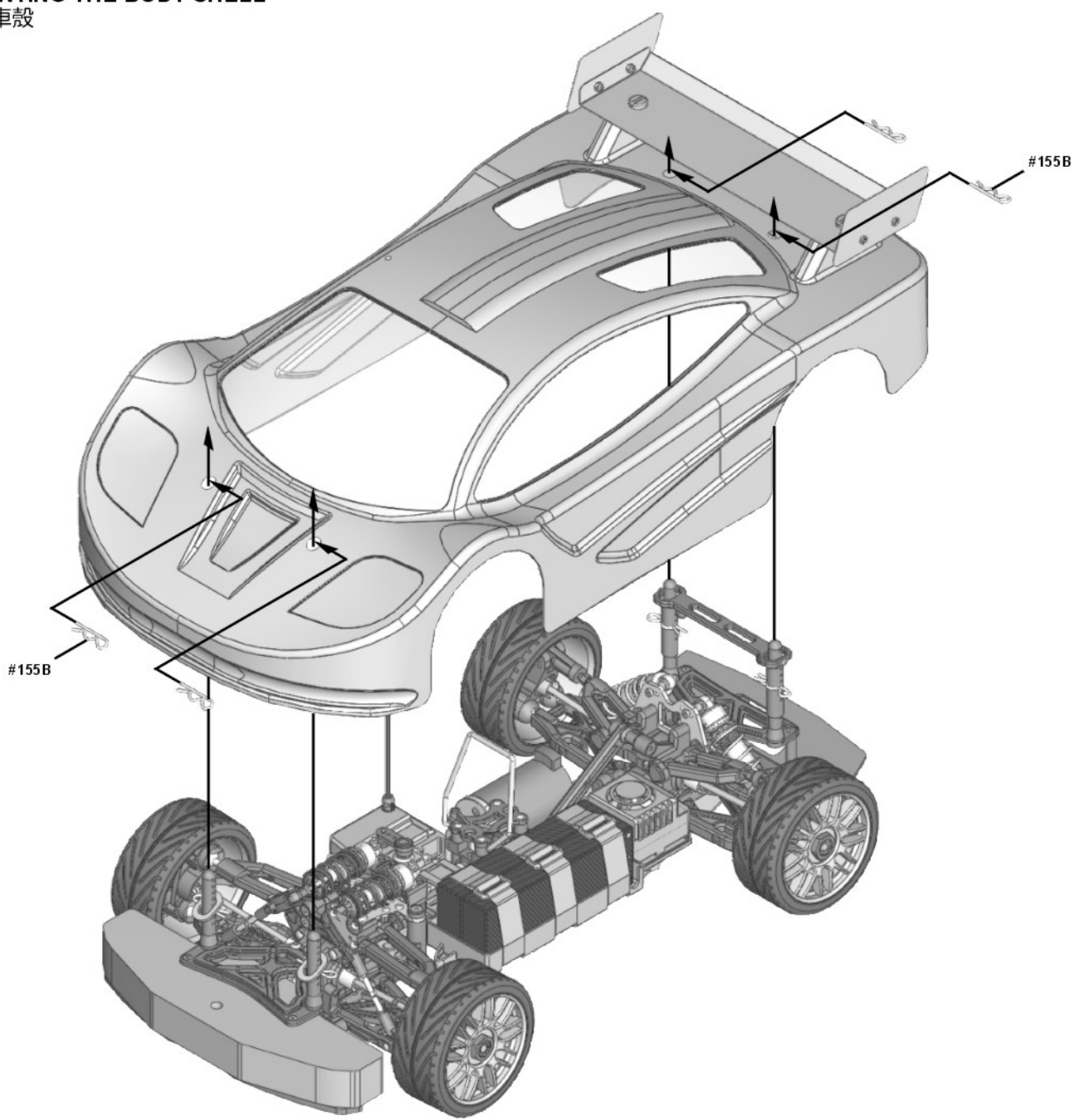
Step 2



- |  |  |                     |         |
|--|--|---------------------|---------|
|  |  | Nylon Screw<br>尼龍螺絲 | .....x2 |
|  |  | Nylon Nut<br>尼龍螺帽   | .....x2 |

Nylon Nut  
尼龍螺帽

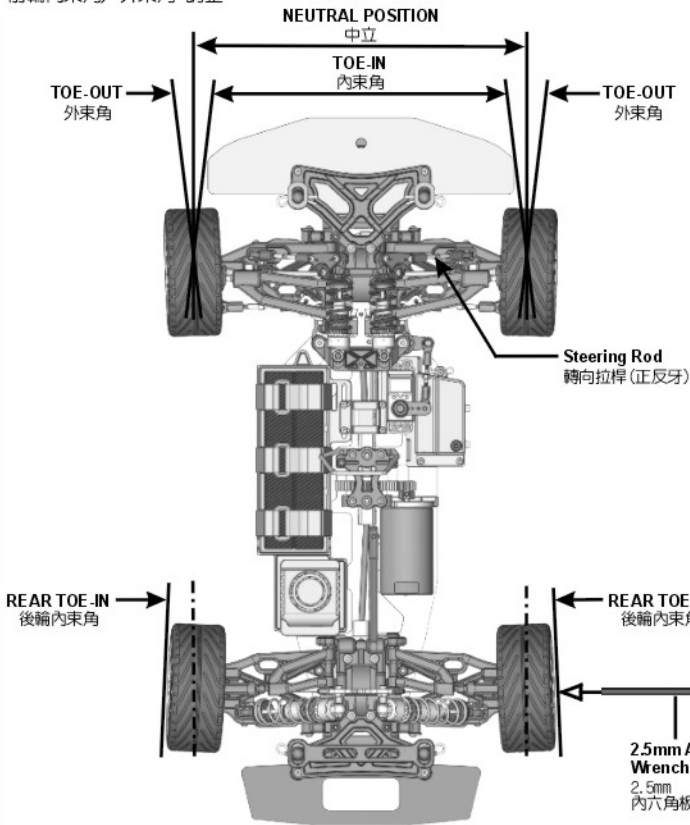
Nylon Nut  
尼龍螺帽





# SETTING GUIDE 輪胎角度設定

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



**Use a 2.5mm allen wrench to adjust toe-in for front and rear.**

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

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

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

**We recommended adjusting the front toe-out to 1.5 degrees.**

(Rear) Adjust the length of the rear hub (12mm ball/rear) to change the toe angle.

Making the 12mm ball longer will make the rear tires toe-in.  
Response will be under steer.

Making the 12mm ball shorter will make the rear tires toe-out.  
Response will be over steer.

**We recommended adjusting the rear toe-in to 2 degrees.**

**\* 使用2.5mm內六角板手調整前後輪內/外束角。**

(前輪) 改變前輪轉向拉桿之長度可以改變前輪內束角與外束角。

調整前輪轉向拉桿加長，前輪會成向內束角。  
此時轉向反應會變慢，並且有轉向過度情形產生。

調整前輪轉向拉桿變短，前輪會成向外束角。  
此時轉向反應會變快，並且有"轉向不足"情形產生。  
我們建議前輪外束角為1.5度。

(後輪) 調整後輪座12mm球頭可以改變後輪內束角。

將12mm球頭往外調長，可以將後輪變為內束。  
車體反應會有轉向不足傾向。

將12mm球頭往內調短可以改變後輪為外束。  
車體反應會有"轉向過度"傾向。  
我們建議後輪內束角為2度。

## FRONT AND REAR CAMBER ANGLE SETTING 前輪傾角調整

**Note:** Place the model car on a 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 angles to the ground.

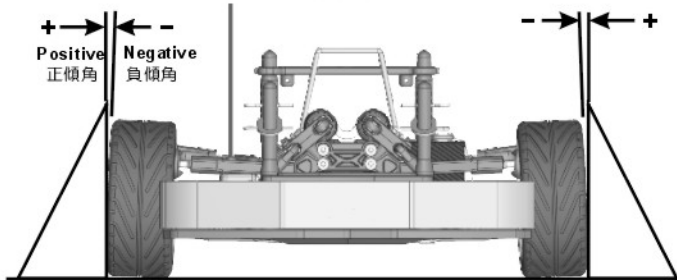
注意：將車體放置在平整桌面上並保持在正確離地高度。  
調整前下擺臂外端球頭及後下擺臂球頭使輪胎與地面垂直。



**\*Use 2.5mm hex wrench to adjust upper arm ball in front.**

**\* 使用2.5mm內六角板手調整前輪負傾角。**

(FRONT)  
(前輪)

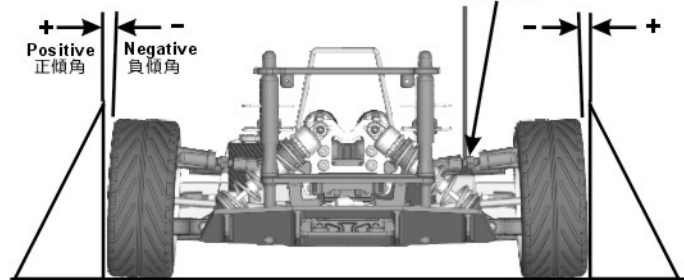


The front camber adjustment can be made by moving the 14mm steering ball at the front upper arms on knuckles, clockwise or anticlockwise.

**We suggest using 1.5 degree of negative camber for the front.**

前輪正負傾角可利用改變前上擺臂14mm球頭的長度來設定。  
我們建議前輪調整為1.5度負傾角。

(REAR)  
(後輪)

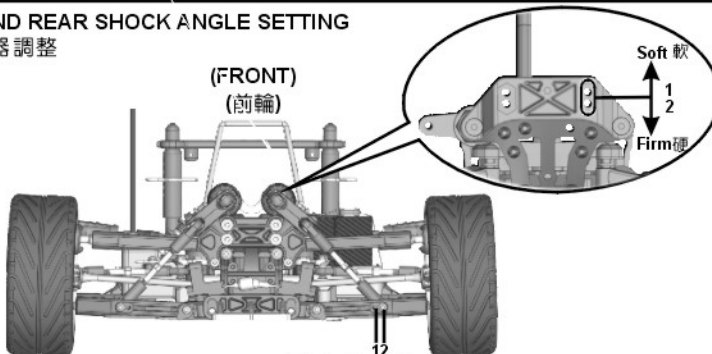


Adjust the length of the turnbuckle on the rear upper arms can be change the rear camber.

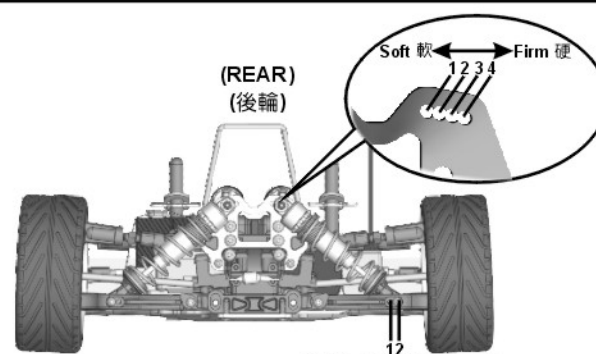
**We suggest using 2 degree of negative camber for the rear.**

調整後上擺臂正反牙螺桿長度可改變正負傾角設定。  
我們建議後輪調整為2度負傾角。

## FRONT AND REAR SHOCK ANGLE SETTING 前後避震器調整



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



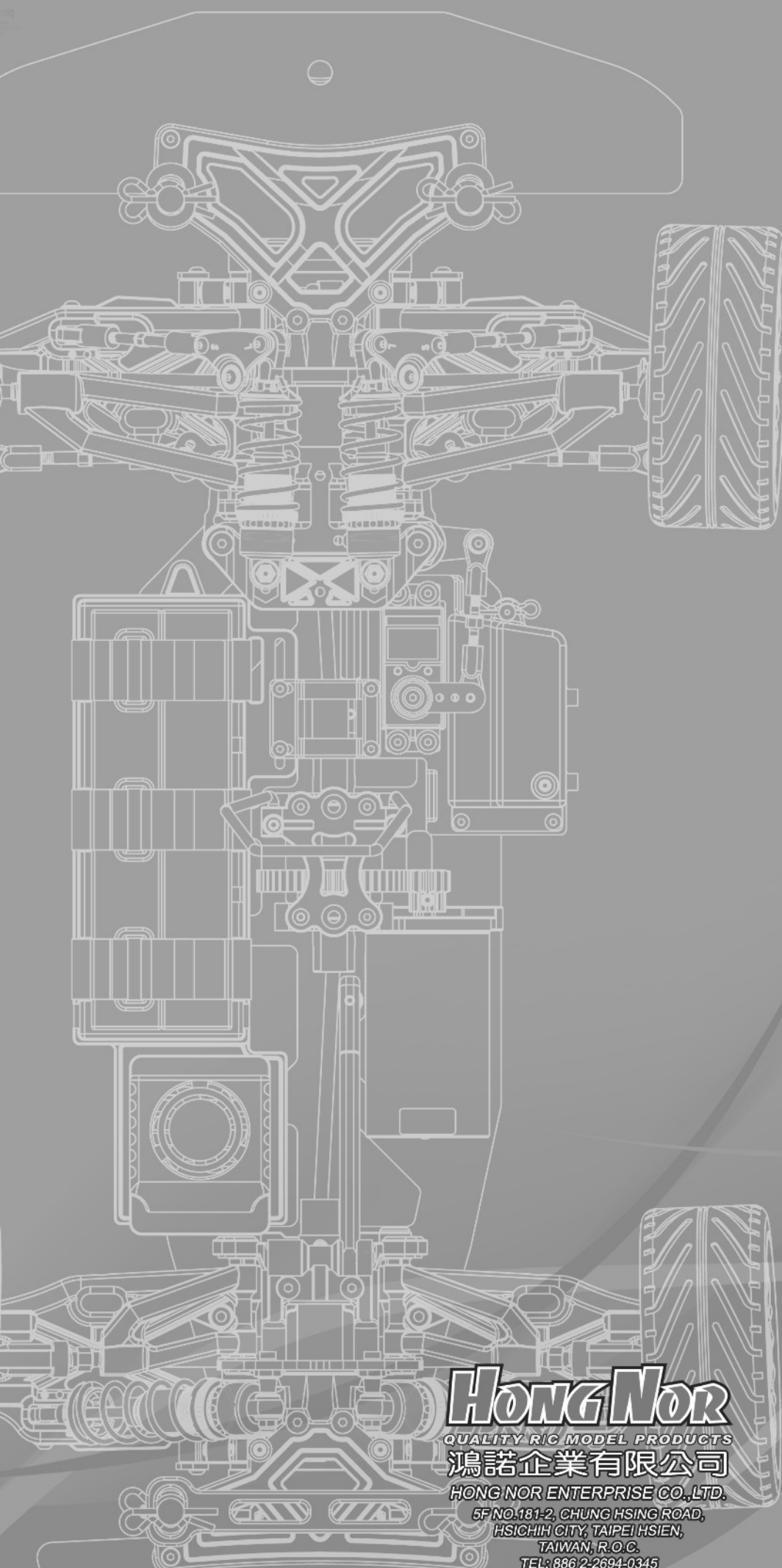
Firm rear suspension, over steering. 後輪硬-轉向過度  
Soft rear suspension, under steering. 後輪軟-轉向不足

1/8 DM-1 Electric Parts List

編號	品名	數量	編號	品名	數量
A-40A	轉向塑膠球頭	6	X1-12	中差座支柱	4
A-41A	6mm球型	6	X1-13	鋁差速齒(20Tx2,10Tx4)	1組
A-56	天線管	1	X1-14	差速接杯	2
A-77G	4x10x0.15 墊片	4	X1-16	13T小傘齒	1
A-87B	4mm十字軸心	2	X1-17	43T大傘齒	1
B-22	1/8 中卡車殼支柱	2	X1-19	小傘接杯	2
BT-110	1/8像真胎	4	X1-21	聯結式傳動軸(前)	2
C-25	後傳動軸(100mm)	2	X1-25	3x48.1mm擺臂軸	2
DM-04	4x90mm擺臂軸	2	X1-26	17mm六角輪座	2
DM-05	3.5x48mm 正反牙	2	X1-26A	17mm六角螺帽	2
DM-07	手提把	1	X1-31	一體式避震器上支座	4
DM-09	前上擺臂	1模	X1-33	差速箱前後蓋	1
DM-10	前.後下擺臂模	2模	X1-37	後上擺臂模	1模
DM-11	球型轉向座 L.R	1模	X1-38	差速殼	1
DM-12	擺臂固定座.油壓架.防傾桿座	1模	X1-39	緩衝組/補強桿/油箱柱	1模
DM-13	側邊車殼架模	2模	X1-46	3x42.7擺臂軸	4
DM-14	防撞板模	1模	X1-48	特殊M3尼龍帽	2
DM-18	海綿防撞板	1	XT-22	避震器塑膠件	1模
DM-23	單段中軸	1	#152	油壓彈簧座, 球頭	1組
DM-25	1/8 DM-1 後油壓架(鋁)	1	#155B	R型插梢(短)	4
DM-26	1/8 DM-1 後避震器彈簧(紅色)	2	#195	5mm內六角引擎座螺絲	4
DM-27	大直齒固定座	1	#234Y	5x8x2.5mm 培林	1
DM-28	CNC 6061 底盤	1	#267D	8x16培林	8
DM-29	中央傳動軸 90mm+97mm	1set	#267E	2.5x16.8mm滾針	4
E-32	3x26 正反牙拉桿	2	#273A	後輪軸	2
E-37	6mm球型座	6	#291	1/8 房車殼	1
E-41	10/1 R型插梢	10	#294A	49t 塑膠大直齒	1
E-65	4mm塑膠球頭	1模	#304	GTP輪胎內海綿(2片式)	1組
FS-20D	3x6凸緣墊片	2	#305A	鏟刀式防傾桿 L.R	1組
G-10	7mm轉向拉桿塑膠球頭	8	#306C	球形後輪座	2
G-14B	襯套	2	#306D	球形墊片	2
G-19	4x46 正反牙	4	#306E	12mm鋁螺帽	4
G-25	7mm球形	6	#306F	12mm轉向球形	4
G-26	5x35mm正反牙	2	#309B	正牙鋁六角螺帽	1
GS-05	14mm轉向球形	4	#312	伺服片	1
GS-06	14mm鋁螺帽	4	#315A	避震器軸心	2
J-03A	P6O環(橘色)	2	#315S	避震器修理包	1
J-03B	2.5x13.8mm滾針	2	#332	1/8 輻射框	4
J-03C	差速器防漏墊片	3	#364	天線管固定螺帽	1
J-20	13x16x0.2mm差速器墊片	4	#365B	後避震器筒身	2
J-29	緩衝組彈簧	1	#365C	13mm 硬陽油壓蓋	4
J-30H	緩衝組調整環(硬陽)	1	#365D	避震器調整環	4
J-33	緩衝組六角螺絲	2	#365F	15x1 O環	4
J-34	7mm圓球(黑)	4	#365P	13mm 避震活塞(白)	4
J-36	中差座塑膠模	1模	#367	避震器氣室(桔)	4
J-47F	M2.5尼龍帽	4	#375A	DM1 避震器軸心	2
J-50	後上臂球頭	4	#375B	13mm 避震器筒身	2
JS-38B	煞車接杯	2	#376	DM1 避震器彈簧(紅色)軟	4
R-02	鋁CNC馬達座	1	#395A	電池盒塑膠模	1
X1-05BK	鋁三角板(黑)	1	#395B	接收機盒/中差板.塑膠模	1
X1-07BK	緩衝組連接板(黑)	1	#396	電池固定帶(魔鬼粘)	3
X1-10	緩衝組鋁管(硬陽)	1	#397-13	13t馬達齒 5mm軸, M1	1
X1-11	緩衝支柱	2			

## 1/8 DM-1 Electric Parts List

Part No.	Description	QTY	Part No.	Description	Q'TY
A-40A	6mm Ball End (Plastic)	6	X1-12	Center Diff. Mount Post	4
A-41A	6mm Ball	6	X1-13	Diff. Gear (small & large )	1set
A-56	Antenna Pipe	1	X1-14	Cap Joint for Diff.	2
A-77G	4x10x0.2 Washer	4	X1-16	Steel Bevel Gear 13T (Small)	1
A-87B	4mm Cross Pin	2	X1-17	Steel Bevel Gear 43T (Large)	1
B-22	1/8 Truck Body Mount	2	X1-19	Cap Joint	2
BT-110	1/8 Radial Tire	pair	X1-21	Universal Joint, Front	2
C-25	Rear Drive Shaft (100mm)	2	X1-25	Arm Shaft (3x48.1mm)	2
DM-04	4x90mm Arm Shaft	2	X1-26	17mm Wheel Hub	2
DM-05	3.5x48mm Turnbuckle	2	X1-26A	17mm Wheel Nut	2
DM-07	Center Handle Bar	1	X1-31	Shock Ball End Post/one- piece/Top	4
DM-09	Front Upper Arms	1	X1-33	Gear Case	1
DM-10	Front & Rear Lower Arms	2	X1-37	Rear Upper Arms	1set
DM-11	Ball Type Knuckle Arms (L&R)	2	X1-38	Diff. Case (F&R)	1
DM-12	Arm Holder, Shock Stay, Dif Mount	1 set	X1-39	Servo Saver & Center Bracer, Tank Post	1set
DM-13	Side Impact Bumper & Body Support	2	X1-46	Rear Arm Shaft 3x42.7mm	4
DM-14	Front & Rear Bumper	1	X1-48	3mm Nylon Nut (Thin Type)	2
DM-18	Foam Bumper	1	XT-22	Plastic Shock Parts Set	1
DM-23	Single Gear Shaft	1.00	#152	Plastic Parts Set for Damper	4 pcs
DM-25	1/8 DM-1 Rear Shock Stay(Alum.)	1	#155B	Body Clips	1set
DM-26	1/8 DM-1 Rear Shock Spring(Red)	2	#195	Engine Mount Screw, 5mm Hex	4
DM-27	Centre Gear Mount	1	#234Y	5x8x2.5 Ball Bearing	1
DM-28	CNC 6061 Chassis	1	#267D	8x16 Ball Bearing	8
DM-29	Center Drive Shaft 90mm+97mm	2	#267E	2.5x16.8 Pins	4
E-32	M3x26 Turnbuckle	2	#273A	Rear Wheel Axle Shaft	2
E-37	6mm Ball & Socket	6	#291	1/8 "M Type" Body	1
E-41	Body Clips (S)	10	#294A	49T 1St Spur Gear	1
E-65	4mm Ball End	10	#304	GTP Inner Sponge (L&S)	4 pcs
FS-20D	3x6x2.5 Flange Washer	2	#305A	Stabilizer (Steel) (L&R)	2
G-10	Steering 7mm Ball End	8	#306C	Rear Upper Right	2
G-14B	Servo Saver Bushing	2	#306D	Plastic Washer for Ball	2
G-19	4x46 Turnbuckle	4	#306E	12mm Alum. Nut	4
G-25	7mm Ball	6	#306F	11mm Steering Ball	4
G-26	5x35 Turnbuckle	2	#309B	Alum. Nut (clockwise)	1
GS-05	Steering Ball 14mm	4	#312	Universal Servo Horn	1
GS-06	14mm Alum. Nut	4	#315A	Shock Shafts (front)	2
J-03A	P-6 O-Ring	2	#315S	Shock Repair Kit	1
J-03B	2.5x13.8 pin	2	#332	1/8 Mesh Wheels	2
J-03C	Diff. Gaskets	3	#364	Antenna Pipe Fixing Nut	1
J-20	Diff Bevel Gear Shim 13x16x0.2mm	4	#365B	Shock Body Front, 13mm	2
J-29	Servo Saver Spring (Black)	1	#365C	Shock Cap, 13mm	4
J-30H	Servo Saver Spring Adjuster	4	#365D	Shock Spring Adjuster	4
J-33	Steering Plate Hex Screws	2	#365F	15x1 O-Ring	4
J-34	7mm Balls (Black)	4	#365P	Shock Piston, 13mm	4
J-36	Center Diff Mount (plastic)	1	#367	Shock Pressure Top, Orange	4
J-47F	2.5mm Nylon Nut	4	#375A	DM-1 Shock Shaft	2
J-50	Upper Arm Ball End	4	#375B	Shock Body, 13mm	2
JS-38B	8mm Brake Cap Joint	2	#376	DM-1 Shock Spring (Red), Soft	4
R-02	CNC Motor Mount	1	#395A	Battery Case	1
X1-05BK	Alum. Front Plate, Black	1	#395B	Receiver Box/Center Mount	1
X1-07BK	Alum. Servo Saver Connecting Plate	1	#396	Velcro Battery Straps (Black)	3 pcs
X1-10	Alum. Servo Saver Tube	1	#397-13	13T Pinion Gear 5mm, M1	1
X1-11	Servo Saver Post	2			



鴻諾

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