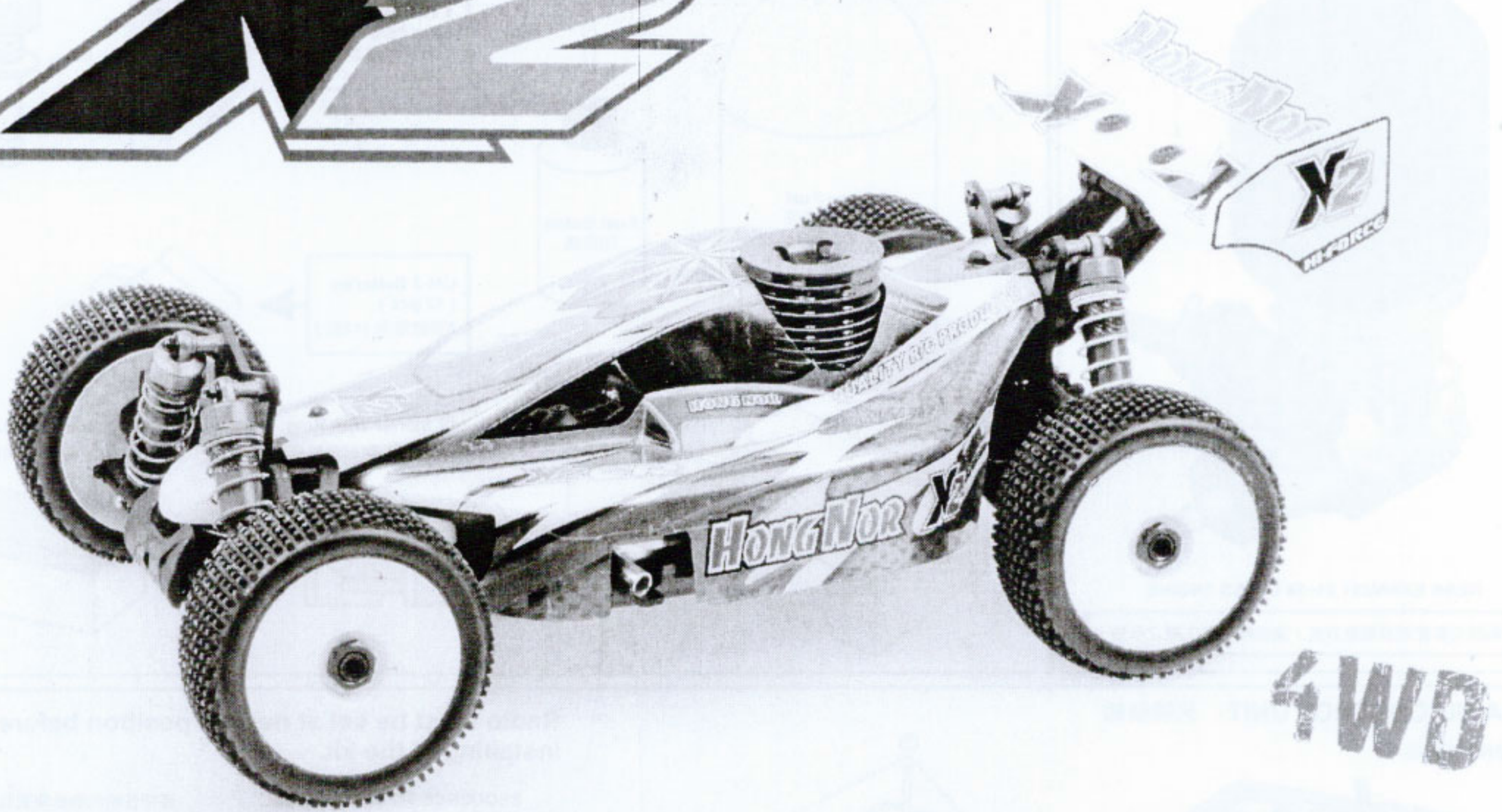
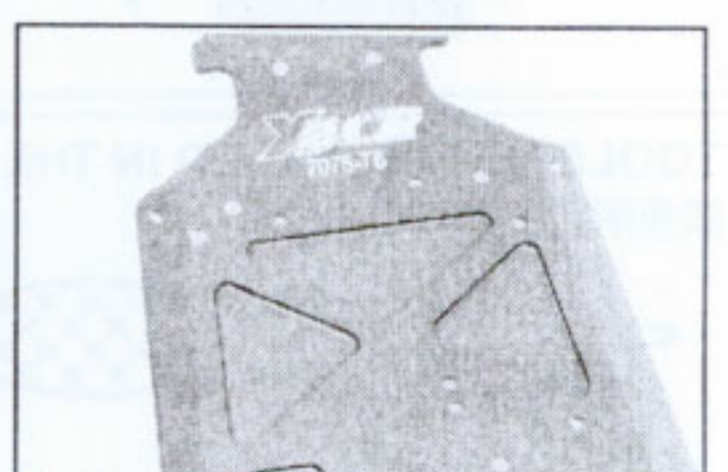
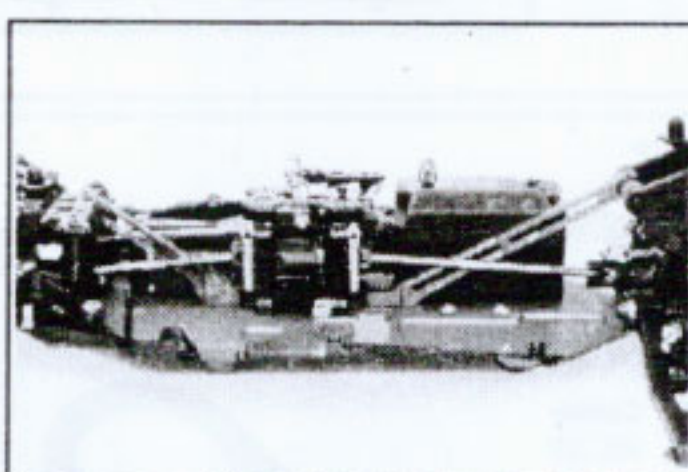
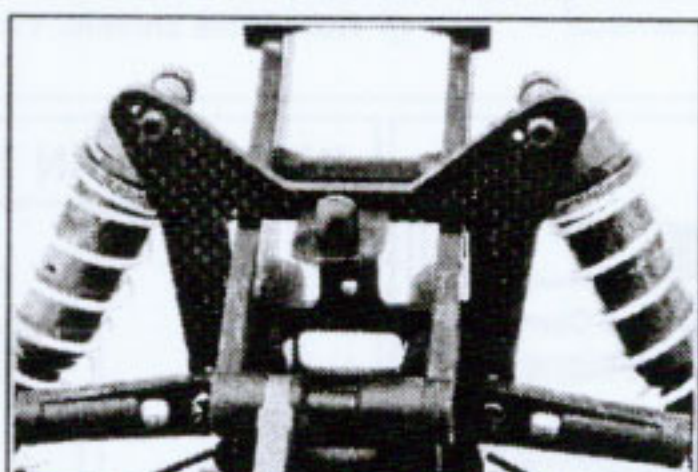
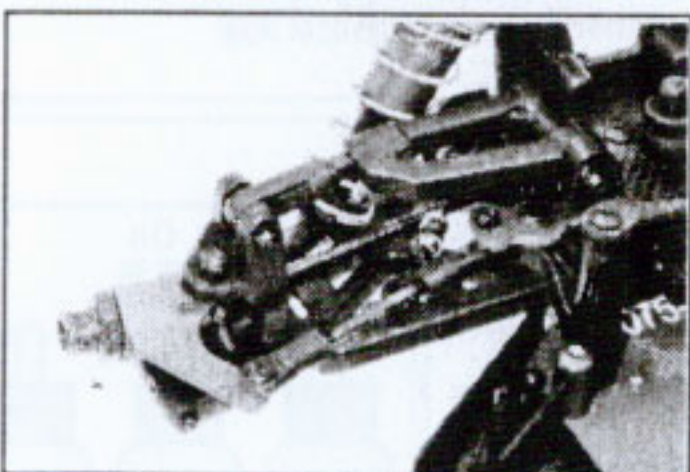
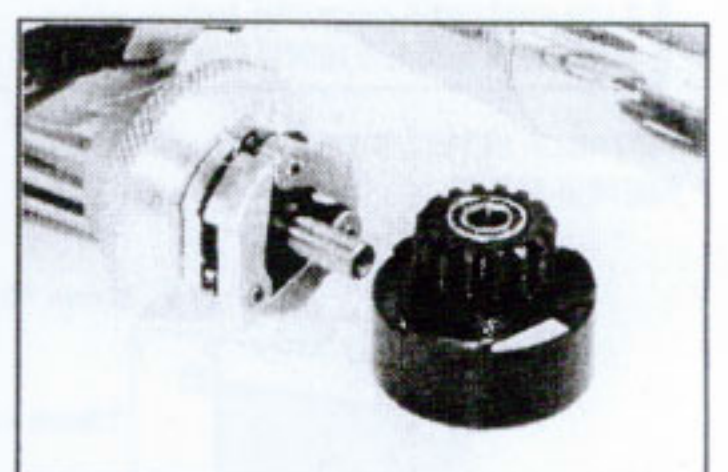
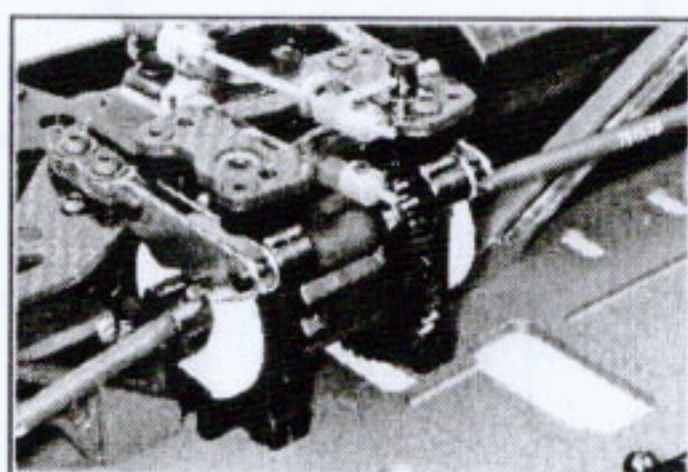
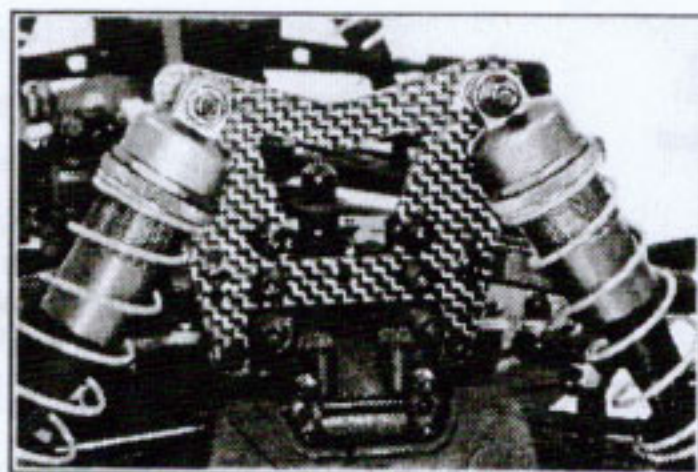
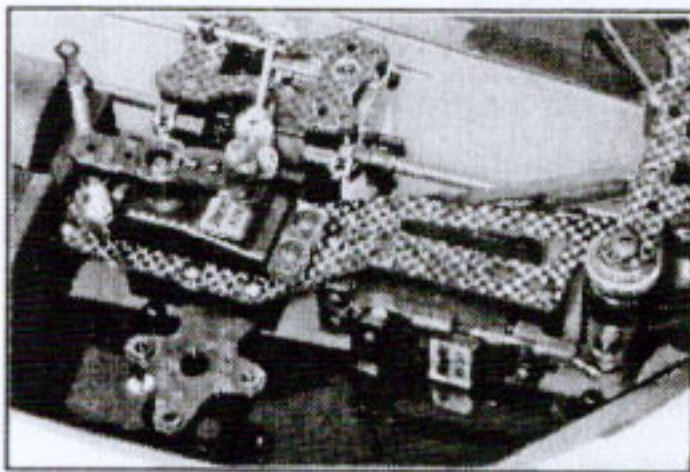


X2 PRO



1/8TH SCALE HIGH PERFORMANCE OFF ROAD BUGGY

組合說明書 INSTRUCTION MANUAL



ADDITIONAL PARTS NEEDED

- RADIO AND ELECTRONICS.
- 21-28 CLASS ENGINE.
- GLOW STARTER AND GLOW PLUGS.
- GLOW PLUG CROSS WRENCH.
- RC CAR FUEL (20%).
- FOR NON-PULL START ENGINES, YOU WILL NEED A 12V HAND HELD STARTER OR STARTER BOX.

THIS IS NOT A TOY!

- DO NOT USE WITH CHILDREN YOUNGER THAN 16 YEARS.
- MODEL PAINTING IS NOT A PART OF THIS KIT.
- PAINT IS NOT INCLUDED.
- SOME KIT TYPES MAY NOT INCLUDE ENGINE.

需另購物件

- * 2動作搖控器與電子設備
- * 21至28級引擎
- * 火星塞
- * 拆火星塞扳手
- * 模型引擎用燃油
- * 可充電點火夾
- * 起動馬達或起動台

本產品非一般玩具!

- 不適合16歲以下兒童使用 (不熟悉模型組裝使用者請洽專業人士指導)
- 模型用噴漆不包含在本套件內
- 噴漆用品及工具不包含在本套件內

HongNor

QUALITY RIC MODEL PRODUCTS

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

5F NO.181-2, ZHONG XING ROAD,
XIZHI CITY, TAIPEI COUNTY,
TAIWAN, R.O.C.

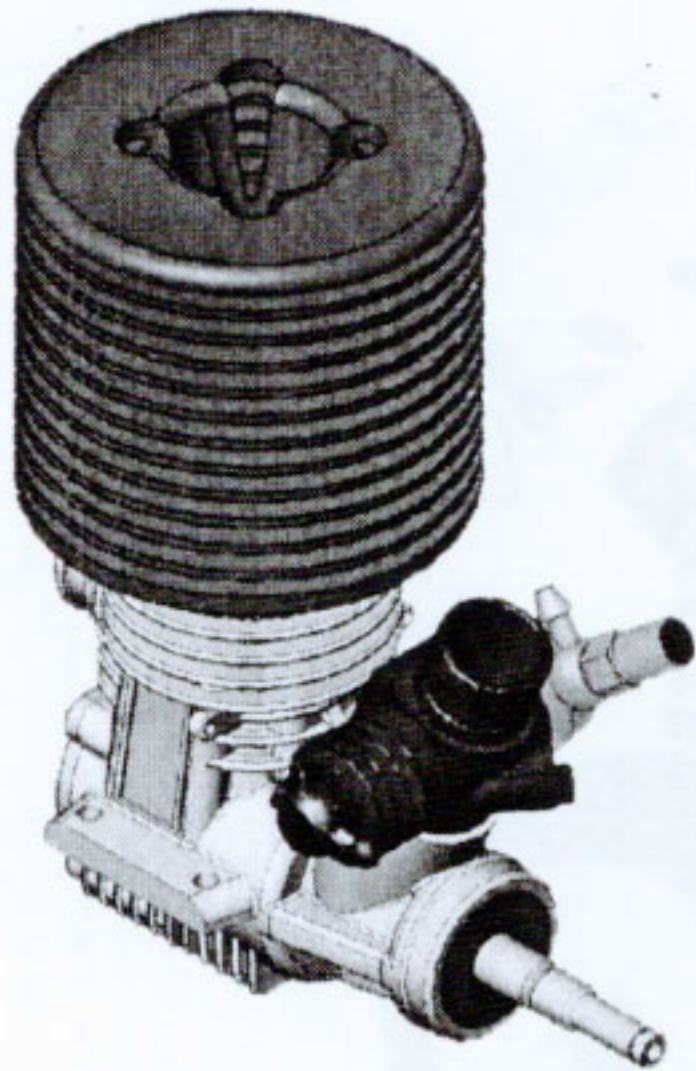
TEL: 886 2-2694-0345
FAX: 886 2-2694-1632

www.hongnor.com.tw

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

THINGS NEEDED BESIDES THE KIT

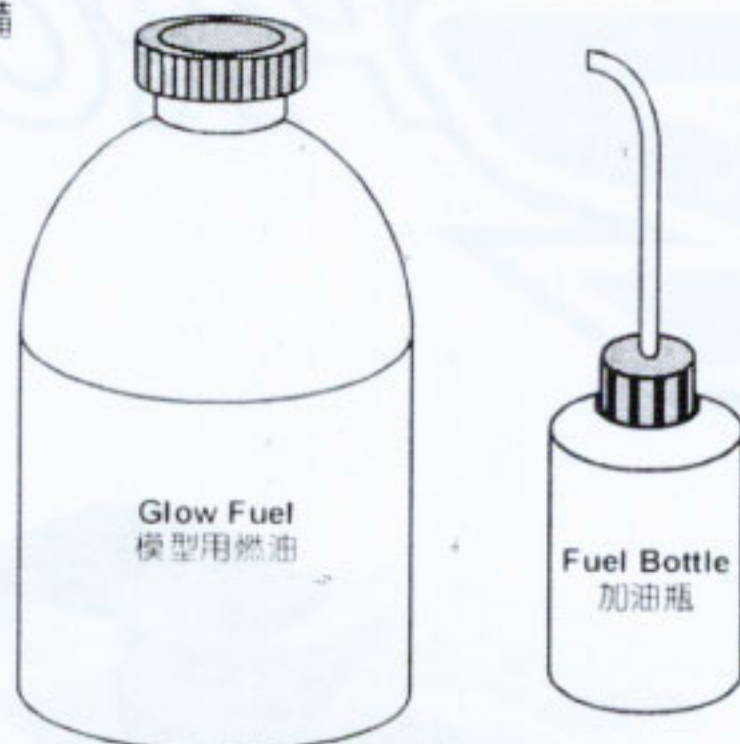
Note: The engine may not be included in the kit.
引擎可能不包含在套件內



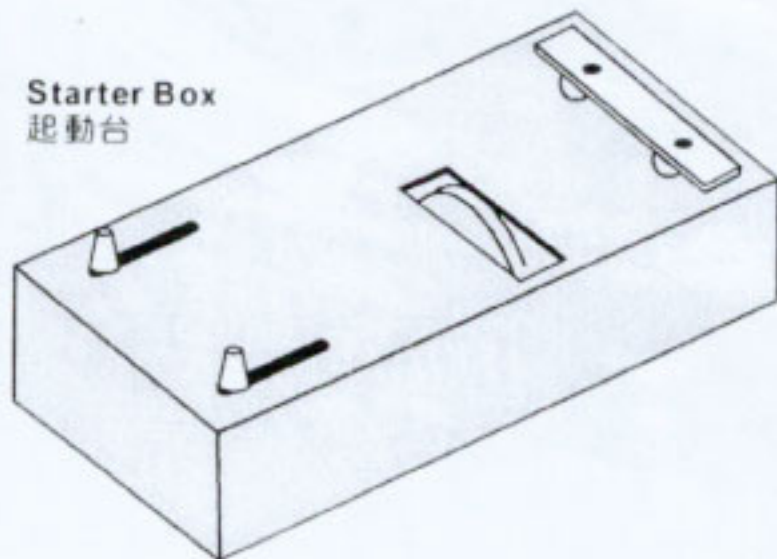
REAR EXHAUST 21-28 CLASS ENGINE

有關引擎使用及調整方式，請參照引擎工廠之手冊。

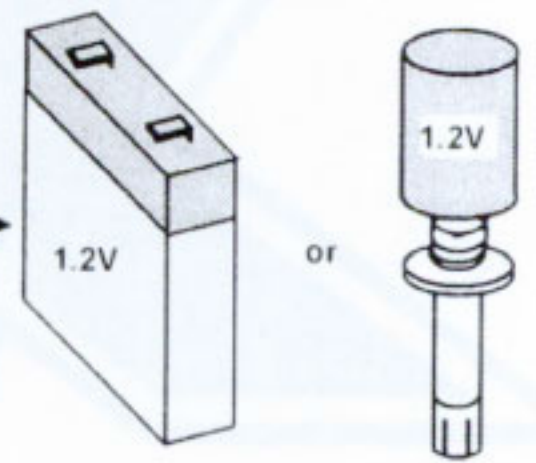
另購裝備



Starter Box
起動台



1.2V Battery for
Glow Plug Ignitr
1.2V 火星塞點火
用電池



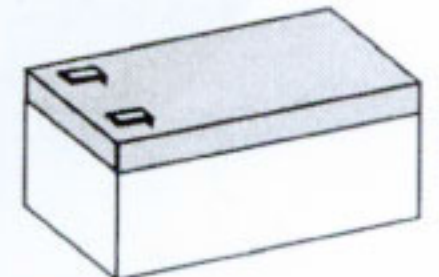
UM-3 Batteries
(12 pcs)
3號乾電池 (12顆)



12V Starter With Ring
12V起動器(附起動膠輪)

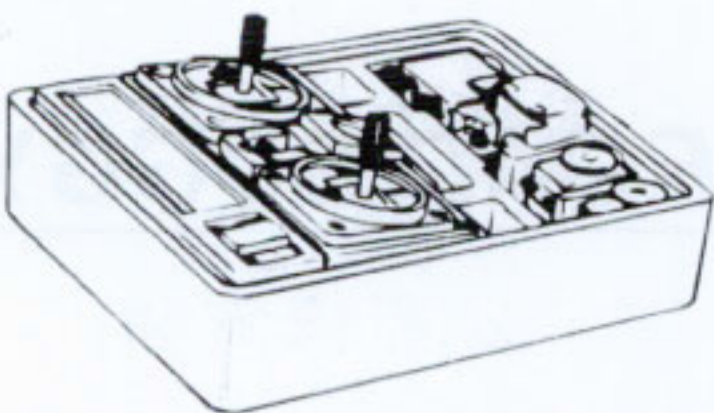


12V Battery for Starter
12V電池 (起動器用)



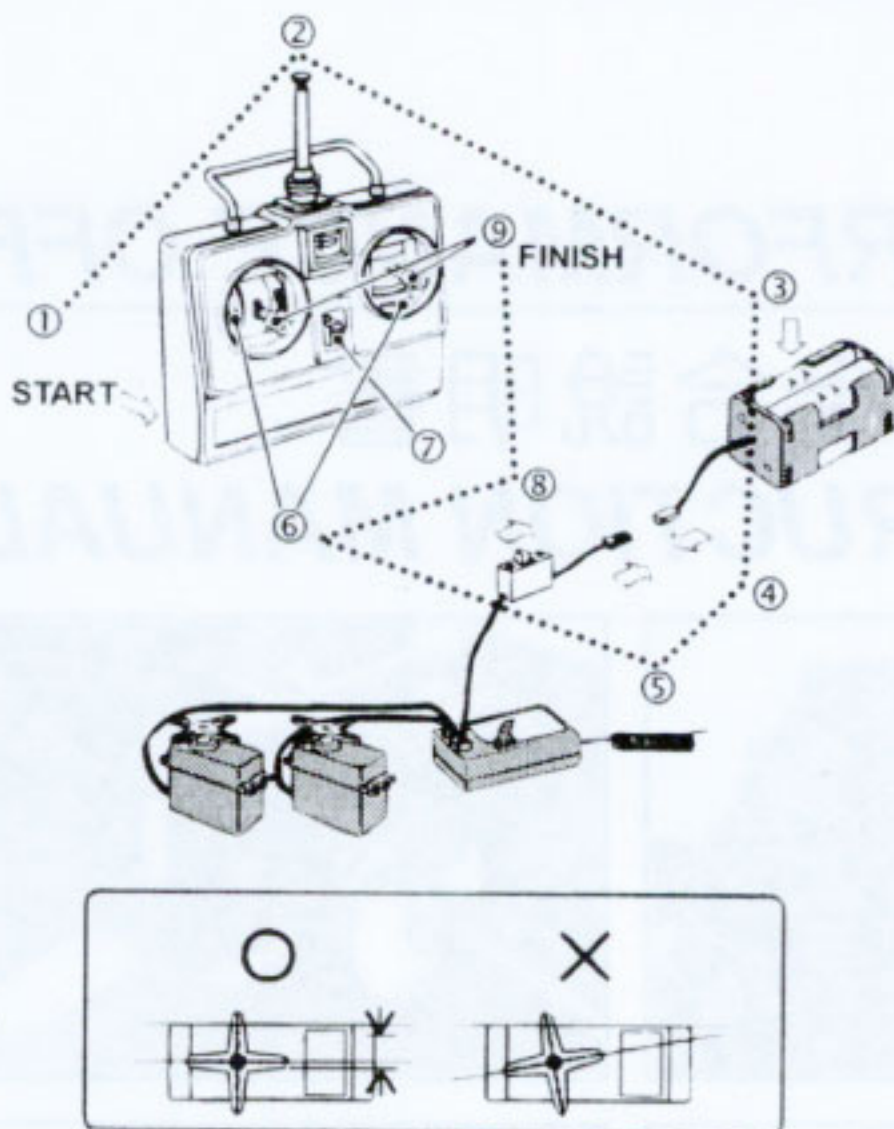
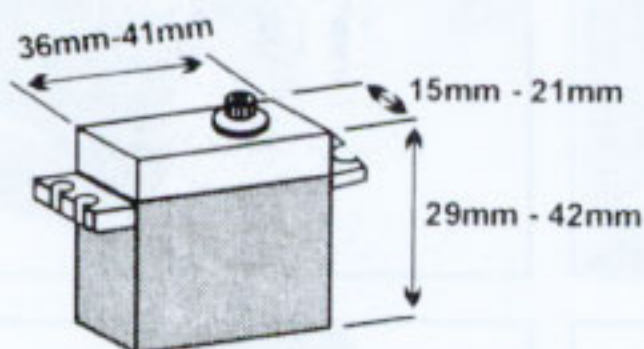
RADIO CONTROL UNIT 另購裝備

2動作遙控器組



Carefully 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.

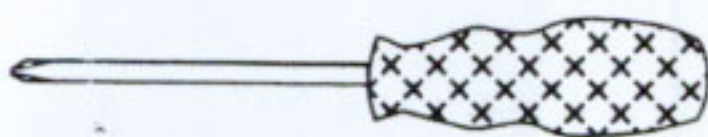
SEQUENCE TO SET NEUTRAL

遙控在組合前必須要設立中立點

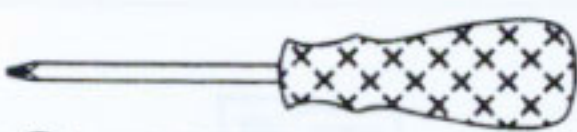
- | | |
|---|---------------------------------------|
| ① Install UM-3 batteries. | 裝入3號乾電池(發射機用) |
| ② Extend the antenna.(Transmitter) | 拉出天線 |
| ③ Install batteries . | 裝入3號乾電池盒(接收機用) |
| ④ After installing the battery, connect the battery box. | 連接電池盒至開關 |
| ⑤ Extend the antenna. (Receiver) | 拉長接收機天線 |
| 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 well. (Adjustment can be made by re-installing the servo horn.) | 當遙桿位於中立點時，伺服盤必須在中央位置。(折下伺服盤可做調整中立位置。) |
| 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 THE KIT

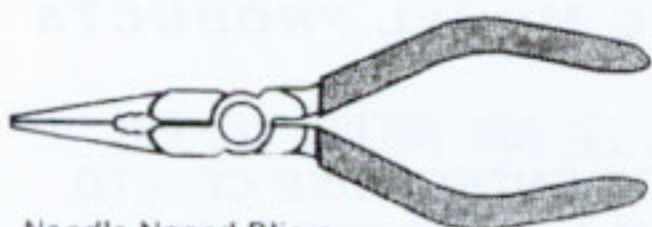
需使用之工具



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



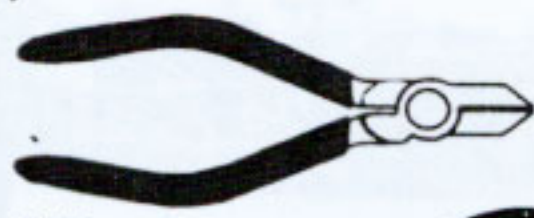
Phillips Type Screw Drivers (S)
小型十字螺絲起子



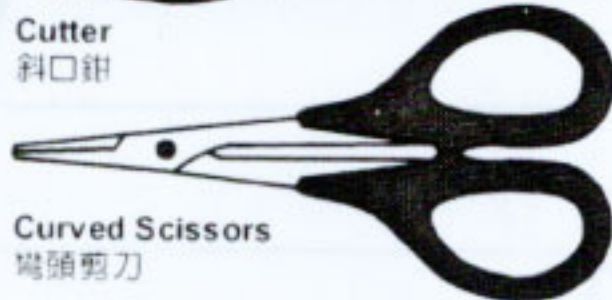
Needle Nosed Pliers
尖嘴鉗



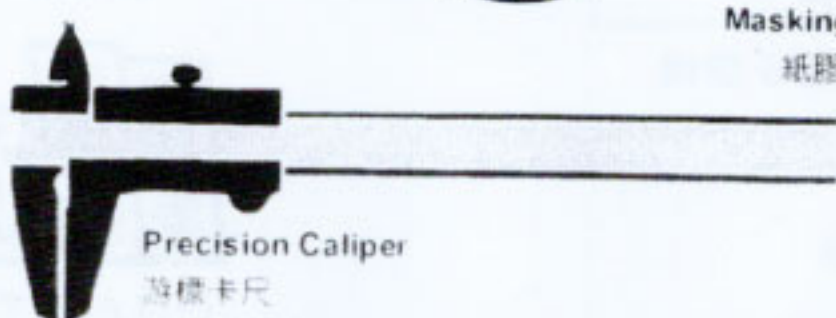
Knife
美工刀



Cutter
斜口鉗



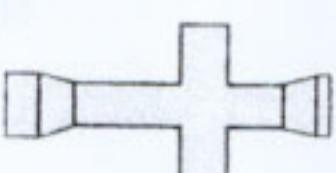
Curved Scissors
彎頭剪刀



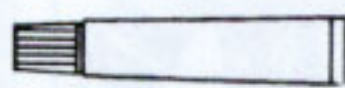
Precision Caliper
游標卡尺



Brush



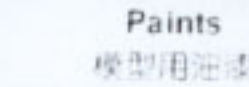
Cross Wrench
六角起子



Instant Cement
3秒瞬間膠水



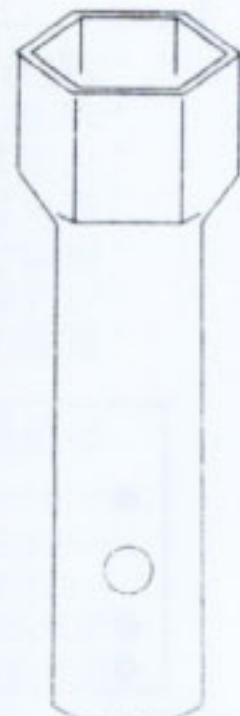
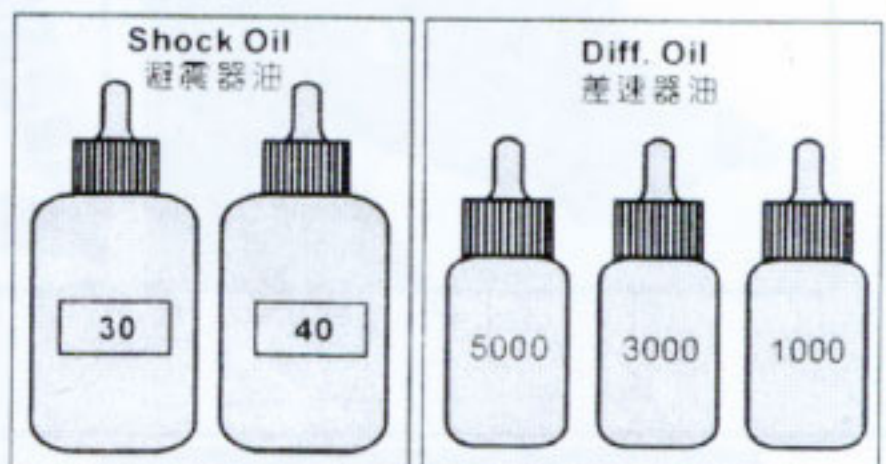
Masking Tape
紙膠帶



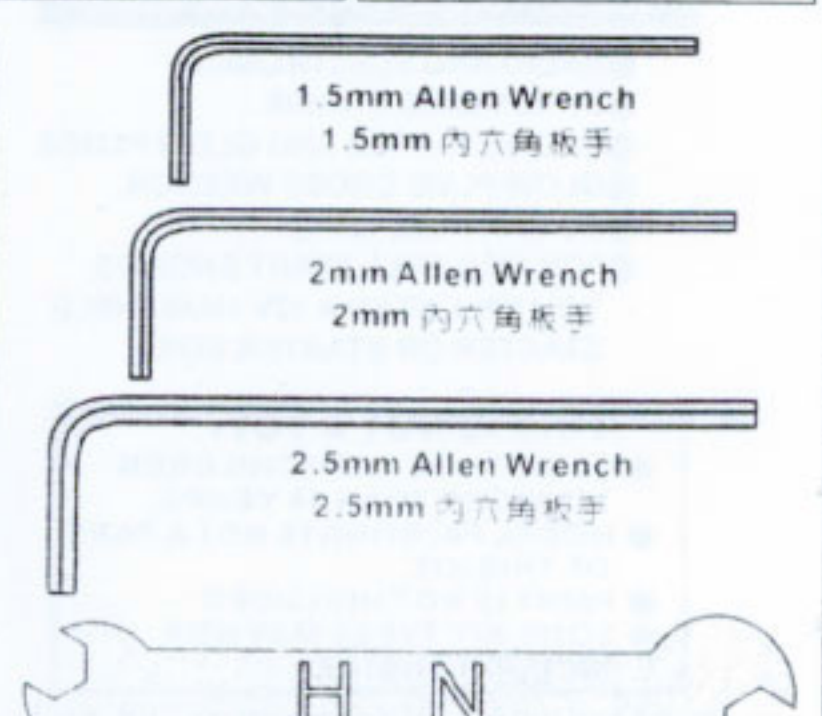
Paints
模型用油漆

INCLUDED IN THE KIT

套件內裝備



17mm Wheel Nut
Wrench
輔助六角板手



1.5mm Allen Wrench
1.5mm 內六角板手

2mm Allen Wrench
2mm 內六角板手

2.5mm Allen Wrench
2.5mm 內六角板手

4mm*5mm Allen Wrench
4mm*5mm 六角板手

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 tightened.

確認所有的螺絲是否已全部鎖緊。

If the model begins to operate by itself, there may be someone else on your frequency.

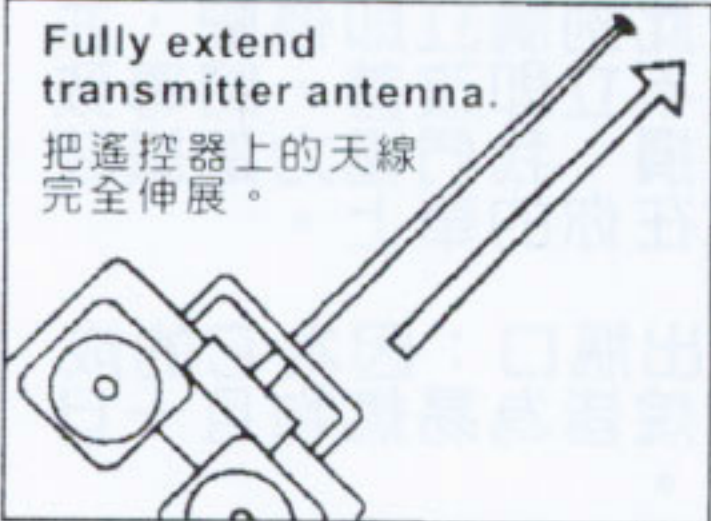
Do not try to operate your model under these conditions for it may go out of control.

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。

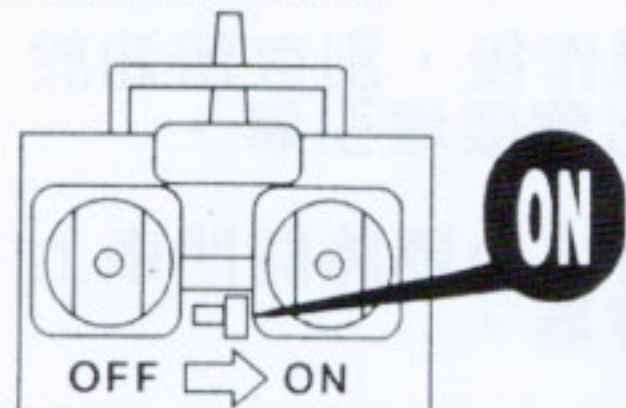
Fill in the fuel.
加滿油箱。



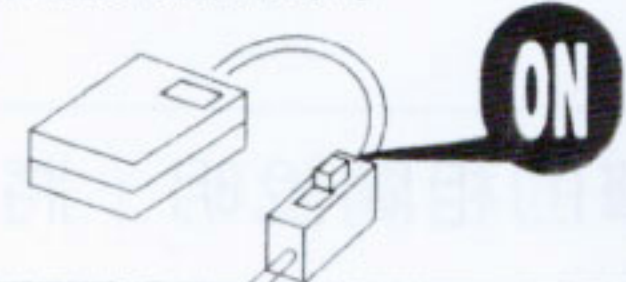
Fully extend transmitter antenna.
把遙控器上的天線完全伸展。



Switch on transmitter.
打開遙控器的開關。



Switch on receiver.
打開接收器的開關。



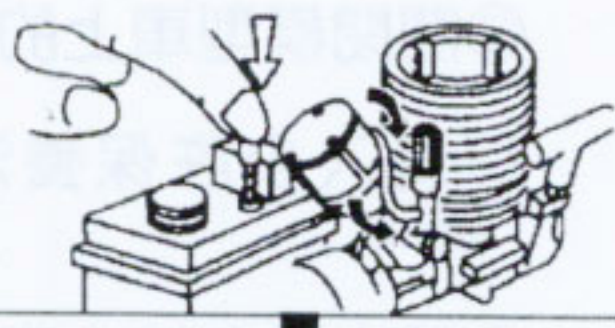
啟動引擎 Engine Start-Up

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



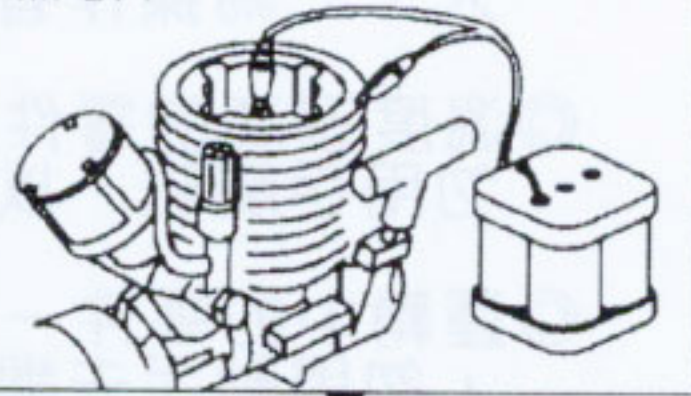
Prime the engine with fuel, then press down the primer button.

首先，裝填引擎燃料，再按下進油幫浦（如果有此裝備）。

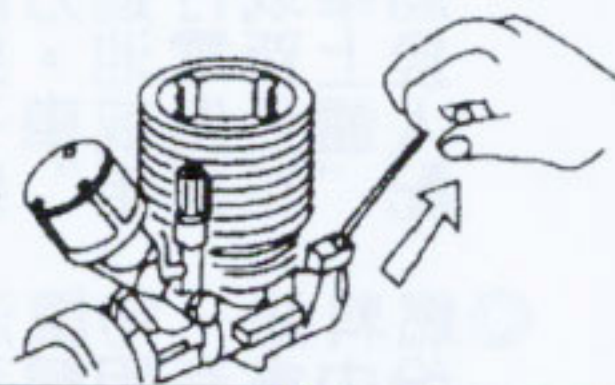


Attach one clip to the glow plug's end and the other clip to one of the cylinder cooling fins.

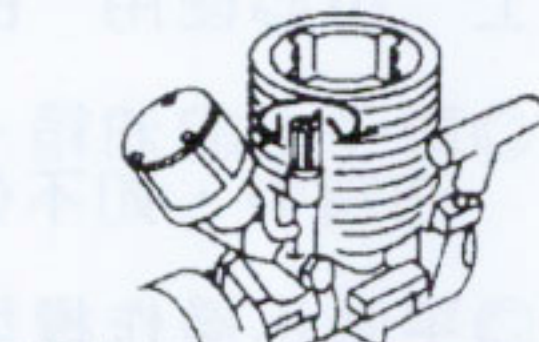
使用一個啟動火星塞用電夾，一端夾住火星塞，一端夾住散熱片。



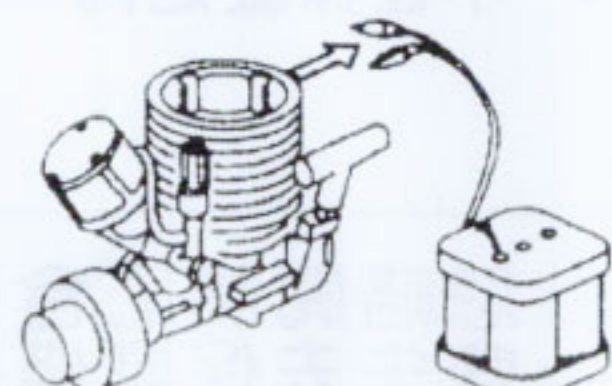
Quickly pull the starter rope to start the engine.
快速拉動引擎的手拉啟動裝置。



Adjust by screwing the needle little by little.
以順時針方向逐漸地微調油針。



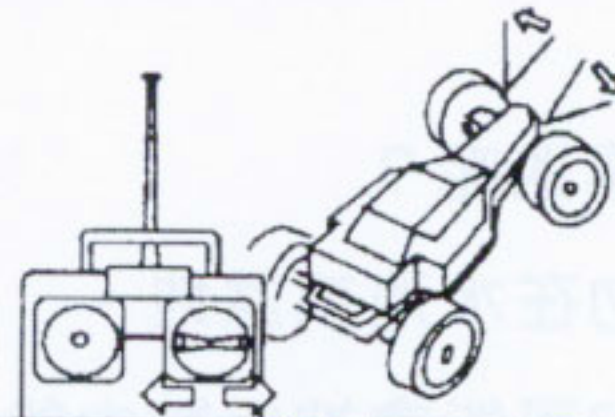
Remove the clips from the engine.
移去起動火星塞電夾。



操作時 While Running

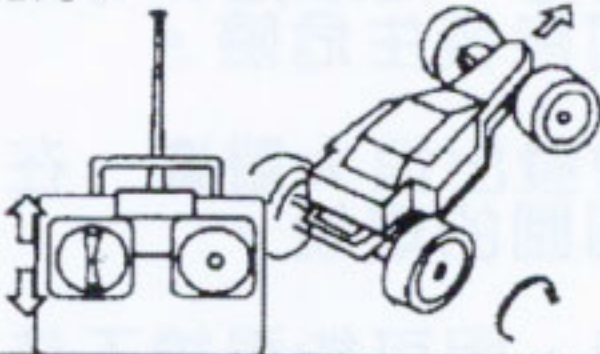
Check that the model turns in proportion to the amount you move the steering control of the transmitter.

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。



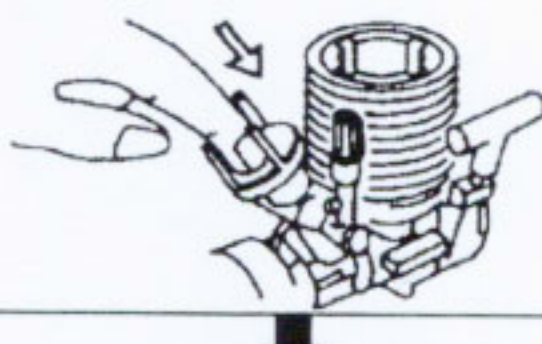
Check that the speed of the model changes in proportion to the amount you move the speed control of the transmitter.

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。

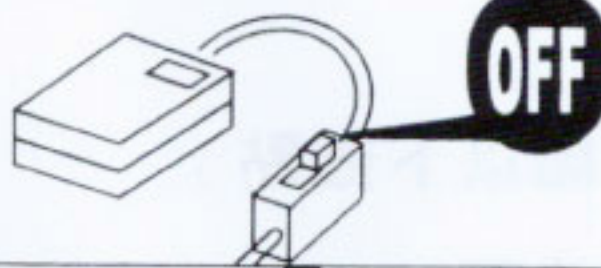


操作後 After Running

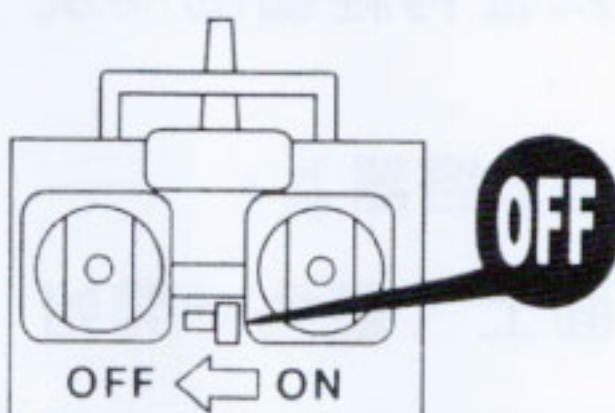
Interrupt the engine by pushing the air cleaner with your fingers.
用手指壓下空氣濾清器，可以中斷引擎。



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！



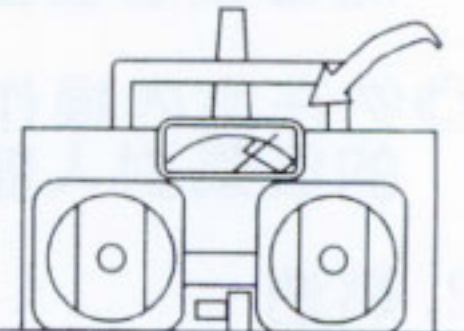
If your model does not operate correctly, stop it and find the cause.

如果遙控車有不正確表現，請停止操作，並立即檢查原因。



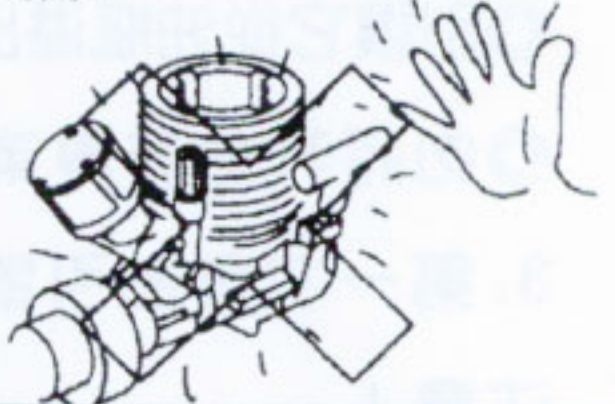
Check the batteries.

確認發射機電力是否充足。



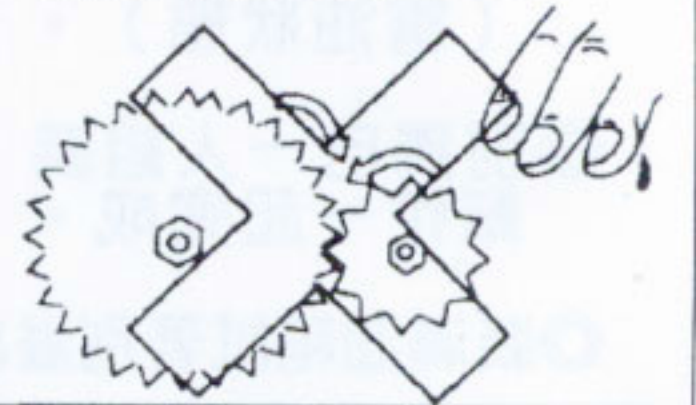
After each run, the model is hot. Beware of getting burned.

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。



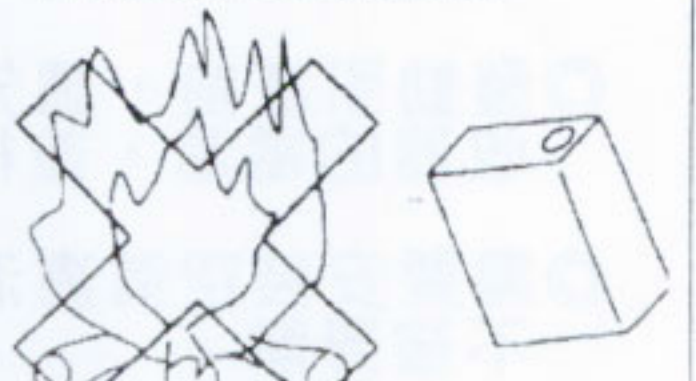
Keep hands and tools away from parts in action.

勿用手碰觸運轉中的零件。



Never throw burning, gleaming or smouldering things into fuel cans even if the cans are empty.

This is very dangerous!!
各種油類需要遠離火源。



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 65KPH, 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 be 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.
- Due 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 safely.
- Do not operate the car indoors. Engine exhaust fumes are dangerous.

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 the 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 for the first time.
- 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 it first starts.
- Turn on the 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 Engine Stopping

- 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 the car
- Put a few drops of after run in the engine to keep it from rusting.
- Clear oil and dirt from chassis with a degreaser.

7. Precautions

- This kit is not a toy. Always run car with a second person as a spotter and pitman.
- Hot Parts-The pipe, manifold, engine and head are very hot and will cause burns.
- Rotating Parts-Keep hands away from the drive train, wheels, and engine when engine is running.
- Radio-Check battery life before running the car. 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 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.

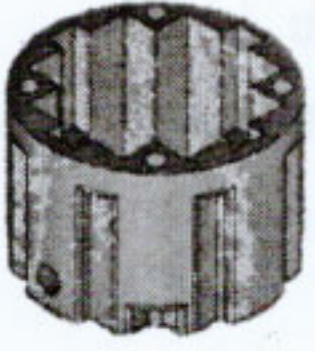
- Fuel tank in the car-Never store fuel in car tank, it will ruin the engine if left in tank.
- Always turn off the car BEFORE turning off the radio.
- DAMAGE DUE CAR RUN AWAY IS NOT A WARRANTY ISSUE .

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

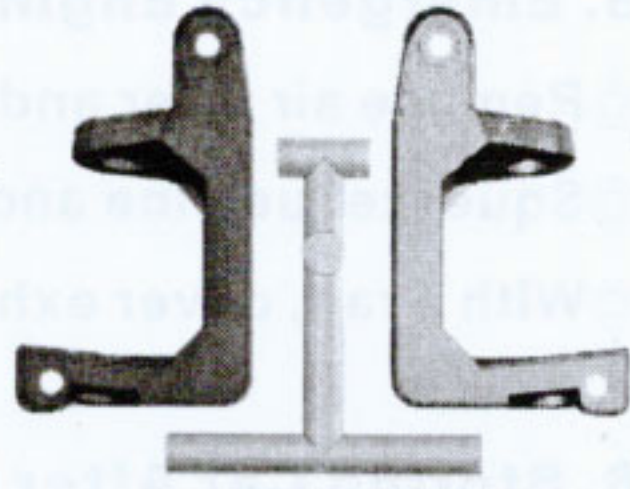
FAILURE TO READ AND FOLLOW BREAK-IN ENGINE INSTRUCTIONS WILL VOID WARRANTY!

PLASTIC PARTS USED 使用塑膠品

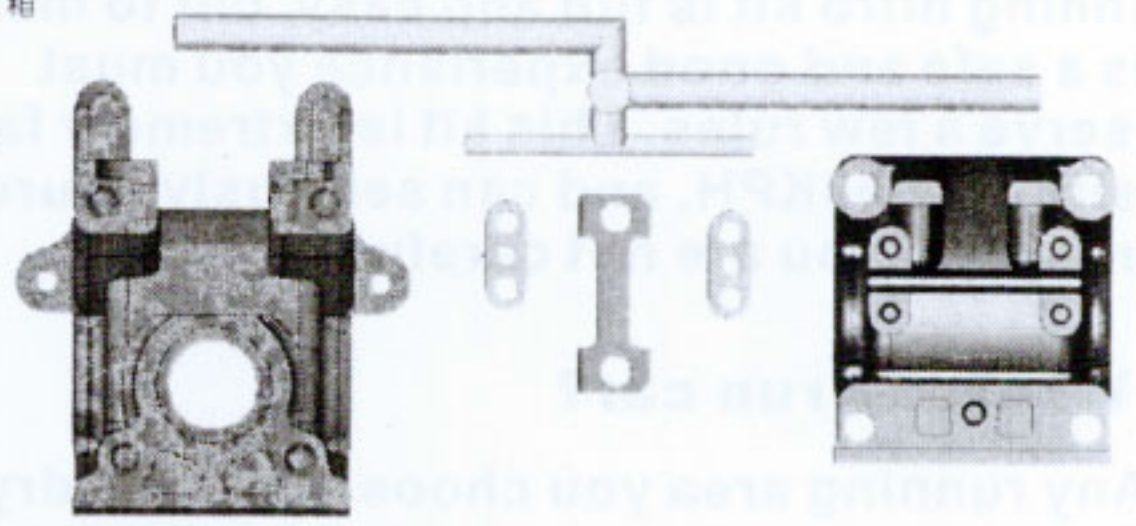
X1-38
DIFF. CASE
差速器殼



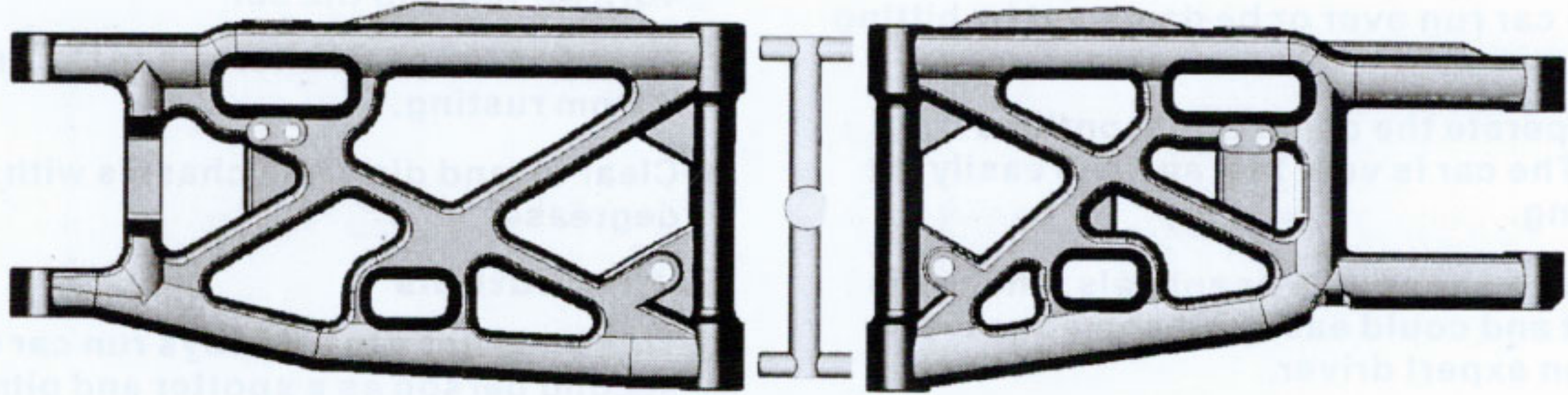
X1-36
FRONT C HUB
C型座



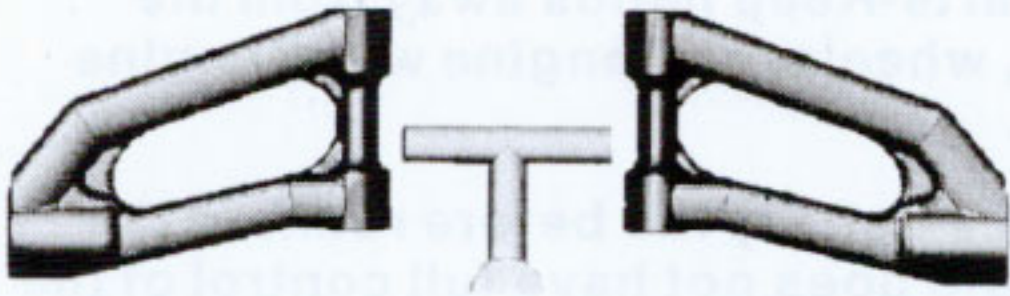
X1-33
FRONT AND REAR GEAR BOX
前後齒輪箱



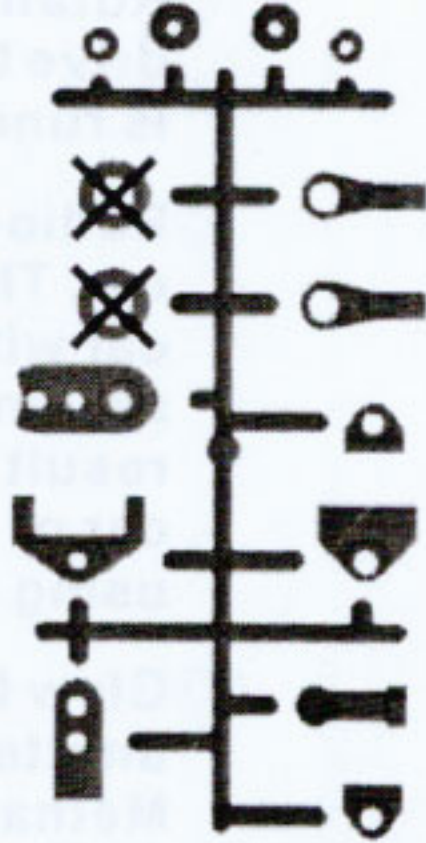
X1-35
FRONT AND REAR LOWER ARM
前後下擺臂



X1-37
FRONT UPPER ARM
前上擺臂

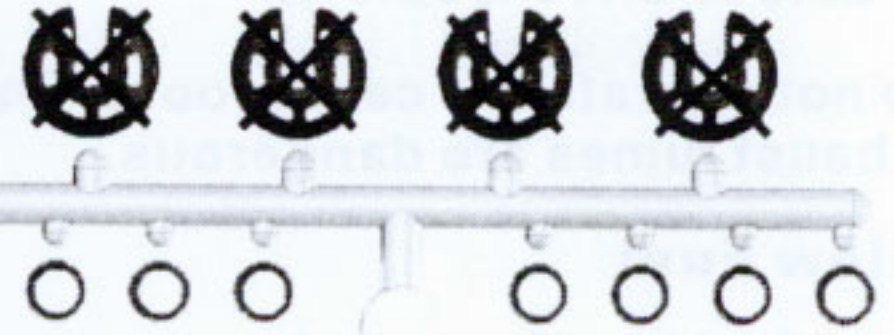


A-80B
THROTTLE LINKAGE PLASTIC
油門拉桿



XT-22
PLASTIC SHOCK PARTS
避震器塑膠零件

XT-22
Shock Cap
Washer
避震器上蓋
墊片



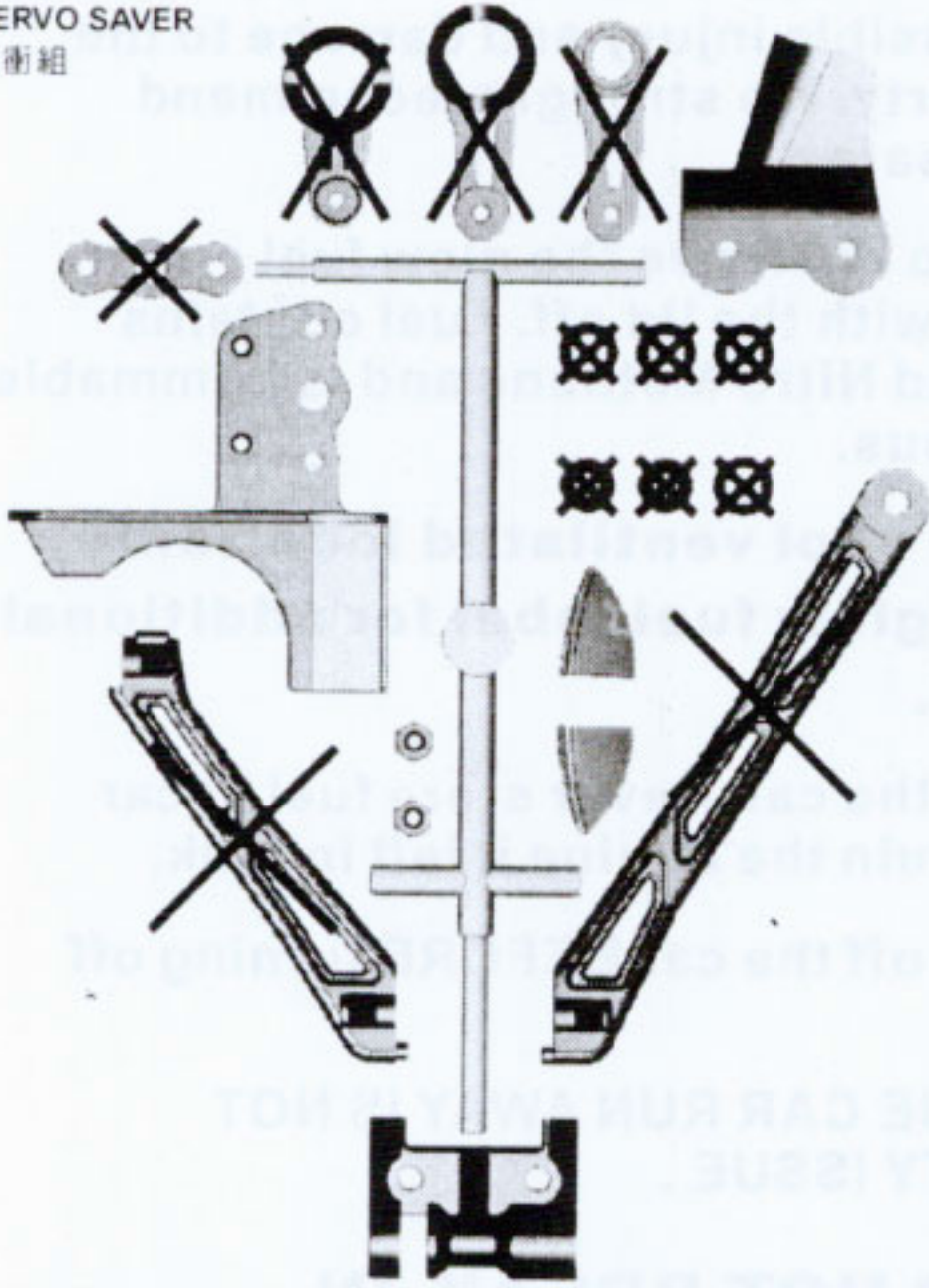
XT-22
Shock Plastic
Ball End
(Short)
避震器塑膠
球頭(短)



XT-22
Shock Plastic
Ball End
(Long)
避震器塑膠
球頭(長)



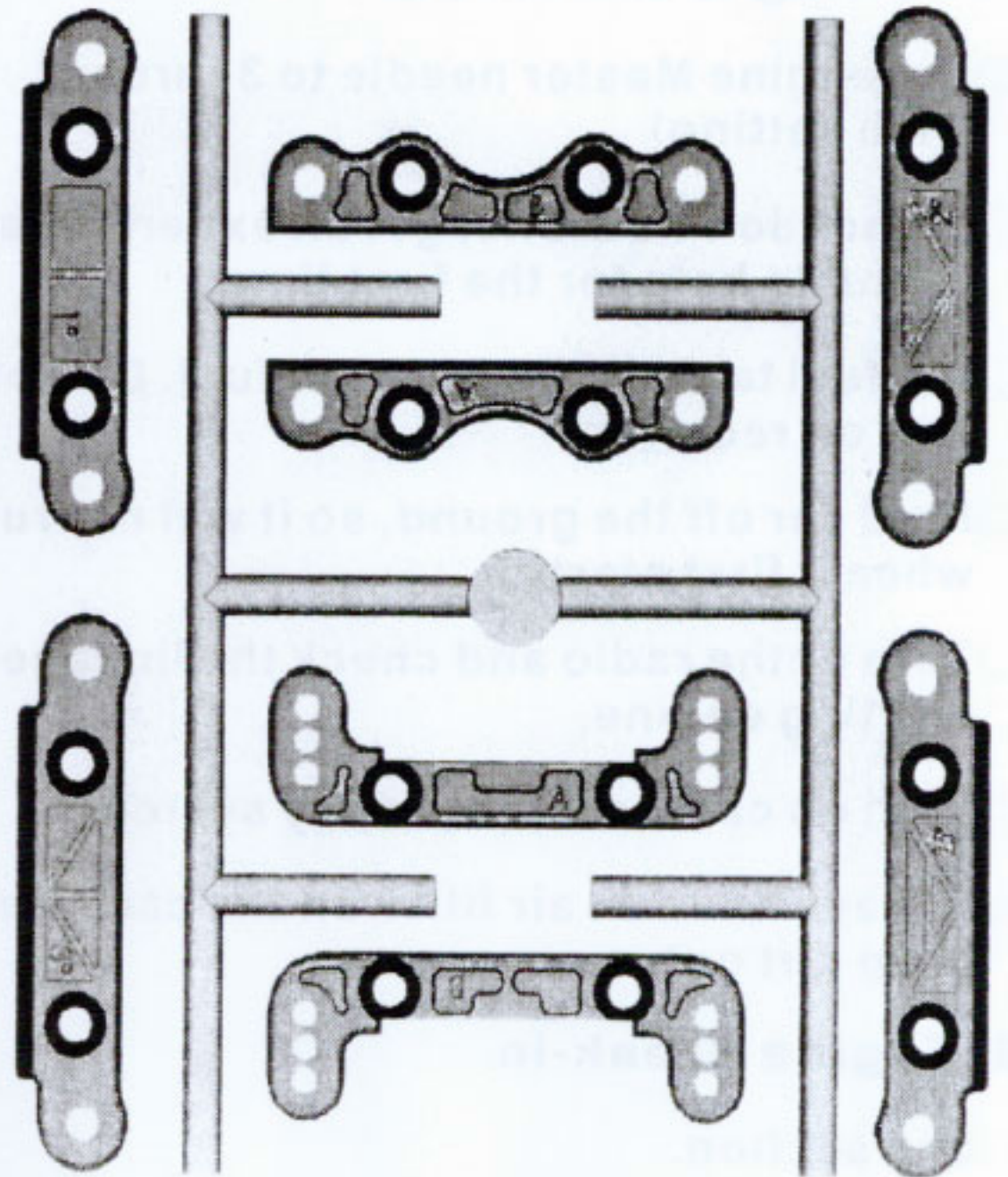
X1-39
SERVO SAVER
緩衝組



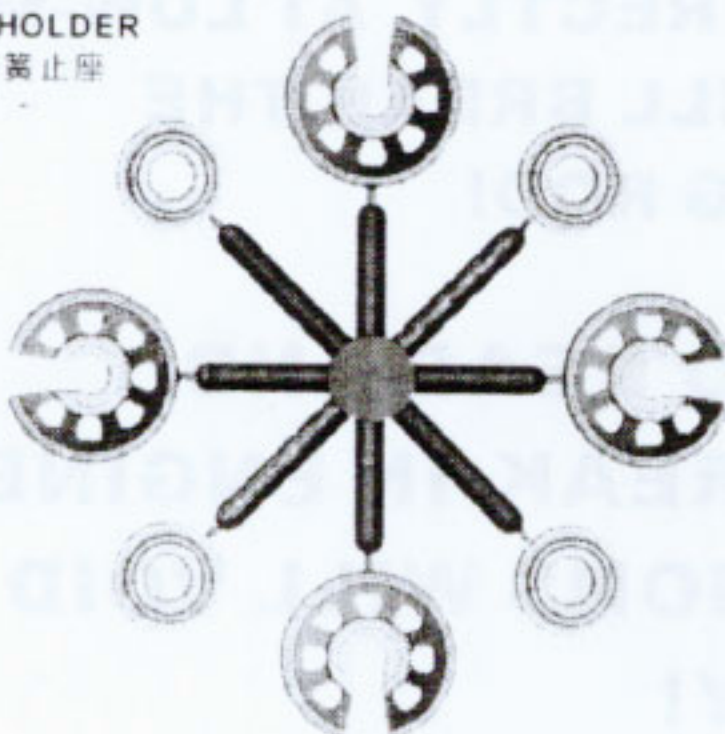
XT-31
CENTER DIFF. MOUNT
中差座



X1-34
ARM HOLDER
擺臂固定座

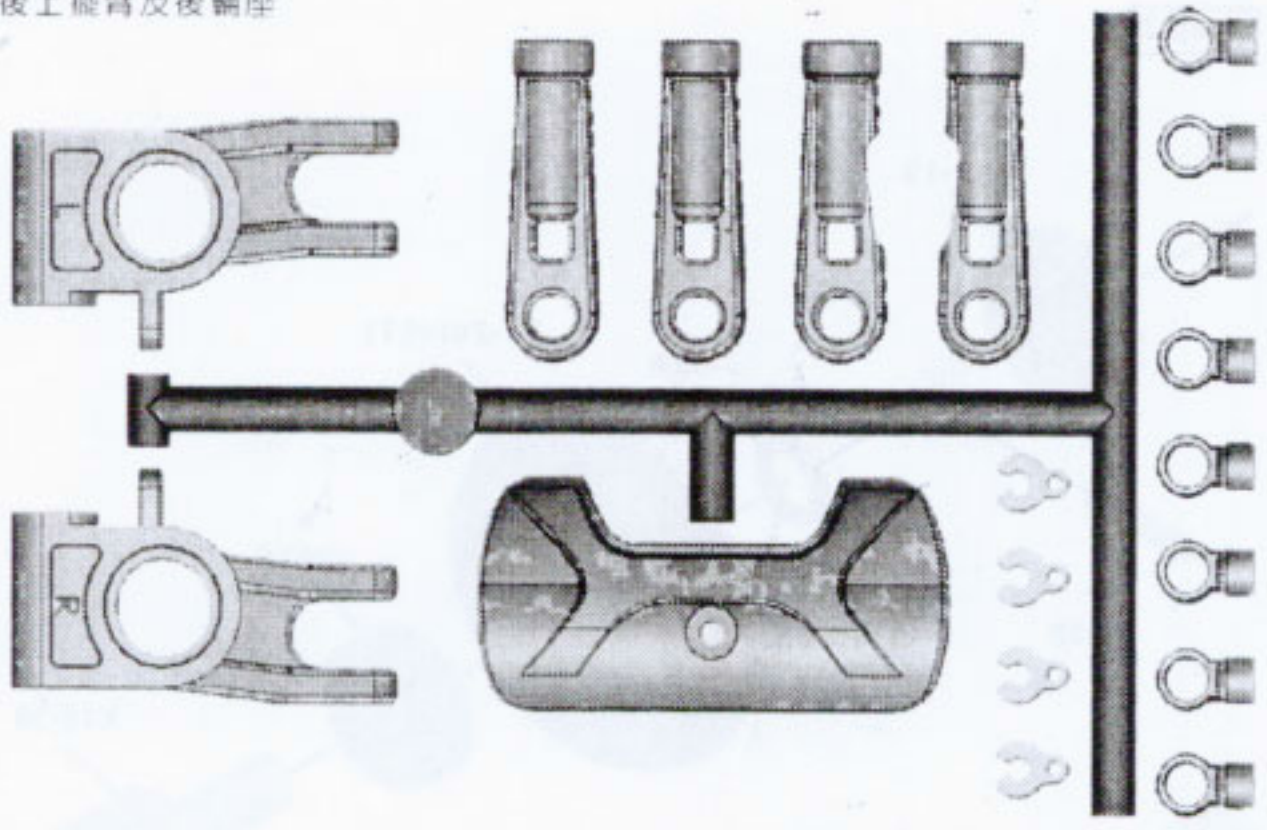


#387G
SHOCK HOLDER
避震器彈簧止座

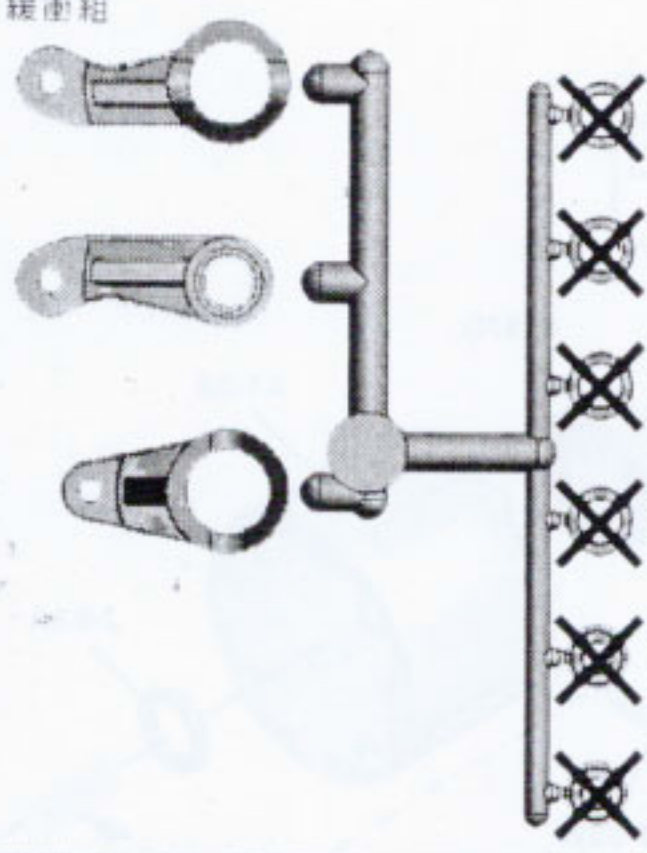


PLASTIC PARTS USED 使用塑膠品

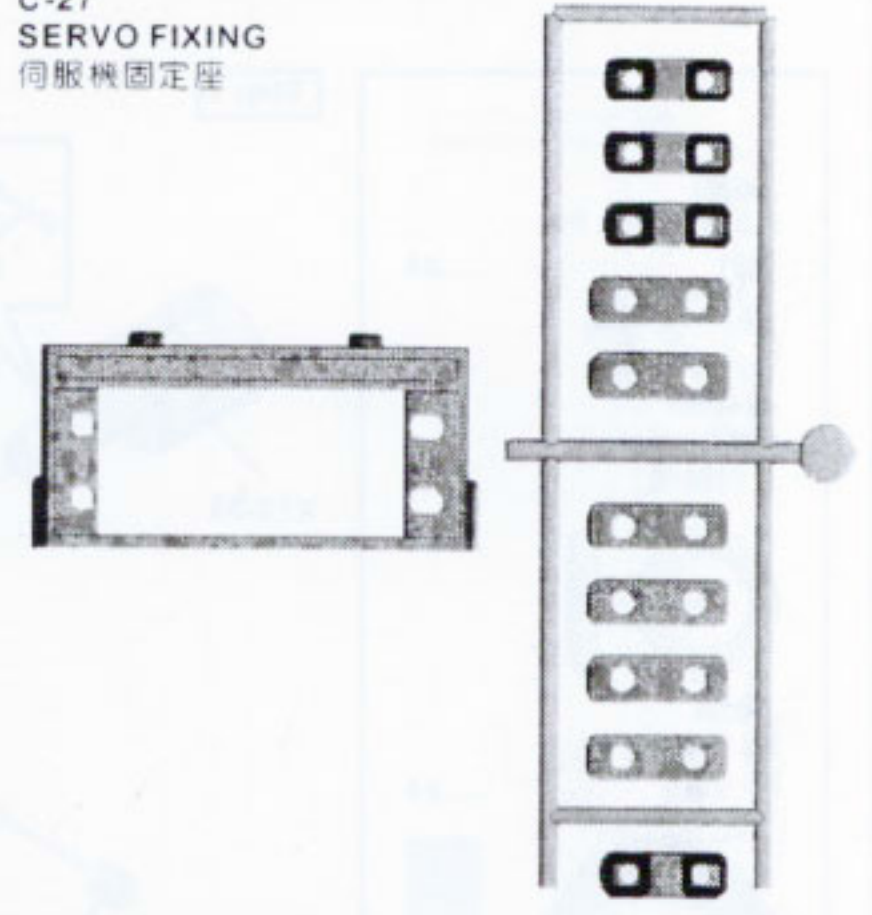
X1-40
REAR UPRIGHT & UPPER ARM
後上擺臂及後輪座



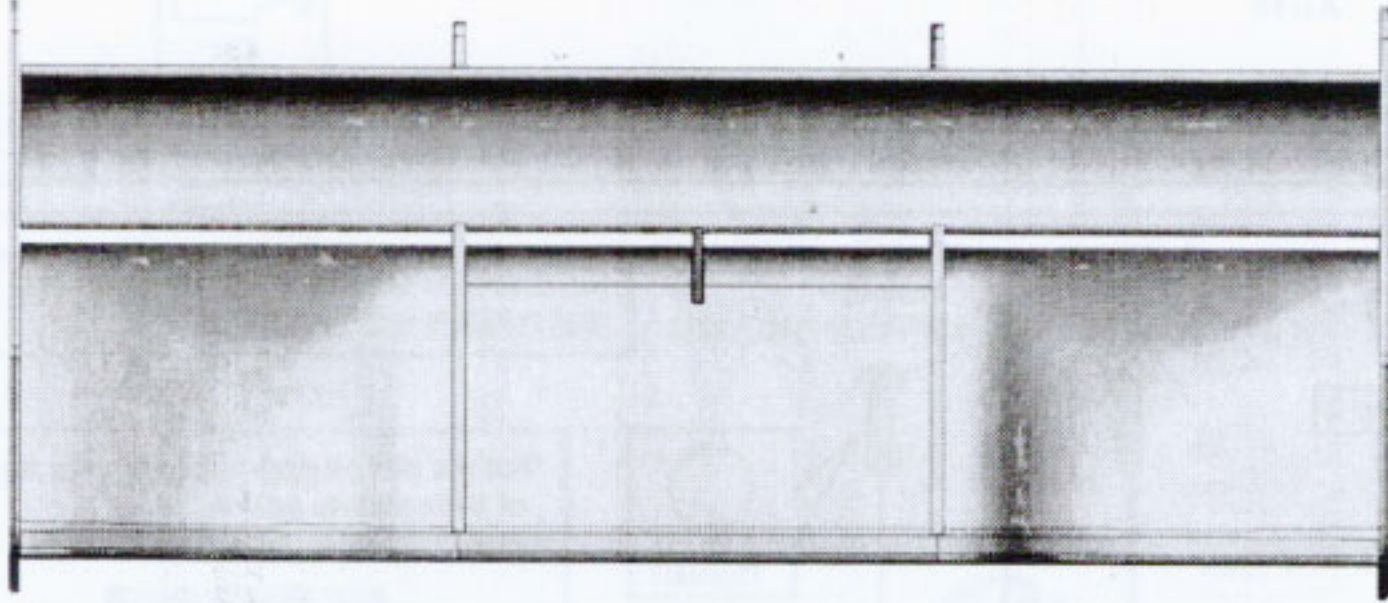
X1S-55A
SERVO SAVER
緩衝組



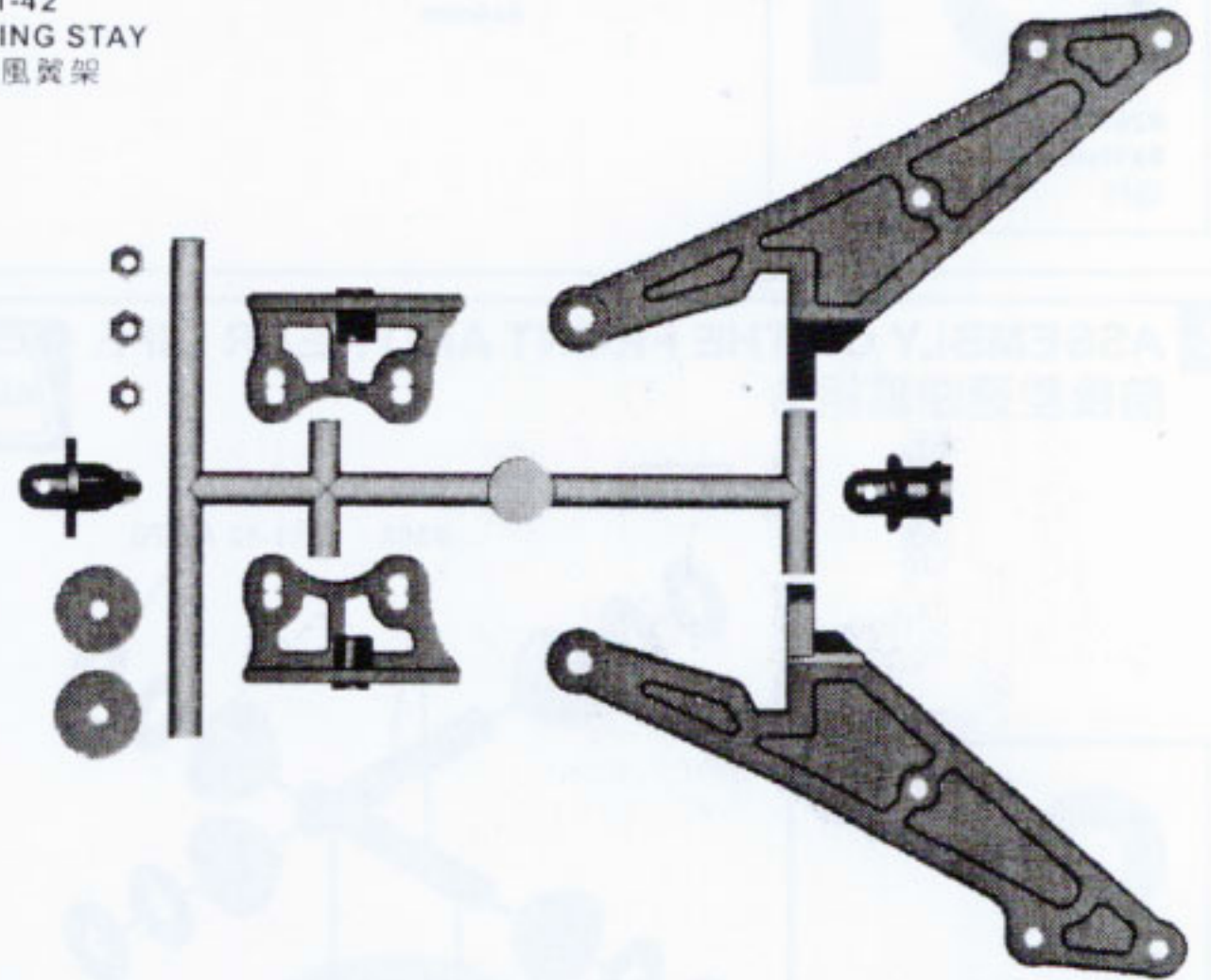
C-27
SERVO FIXING
伺服機固定座



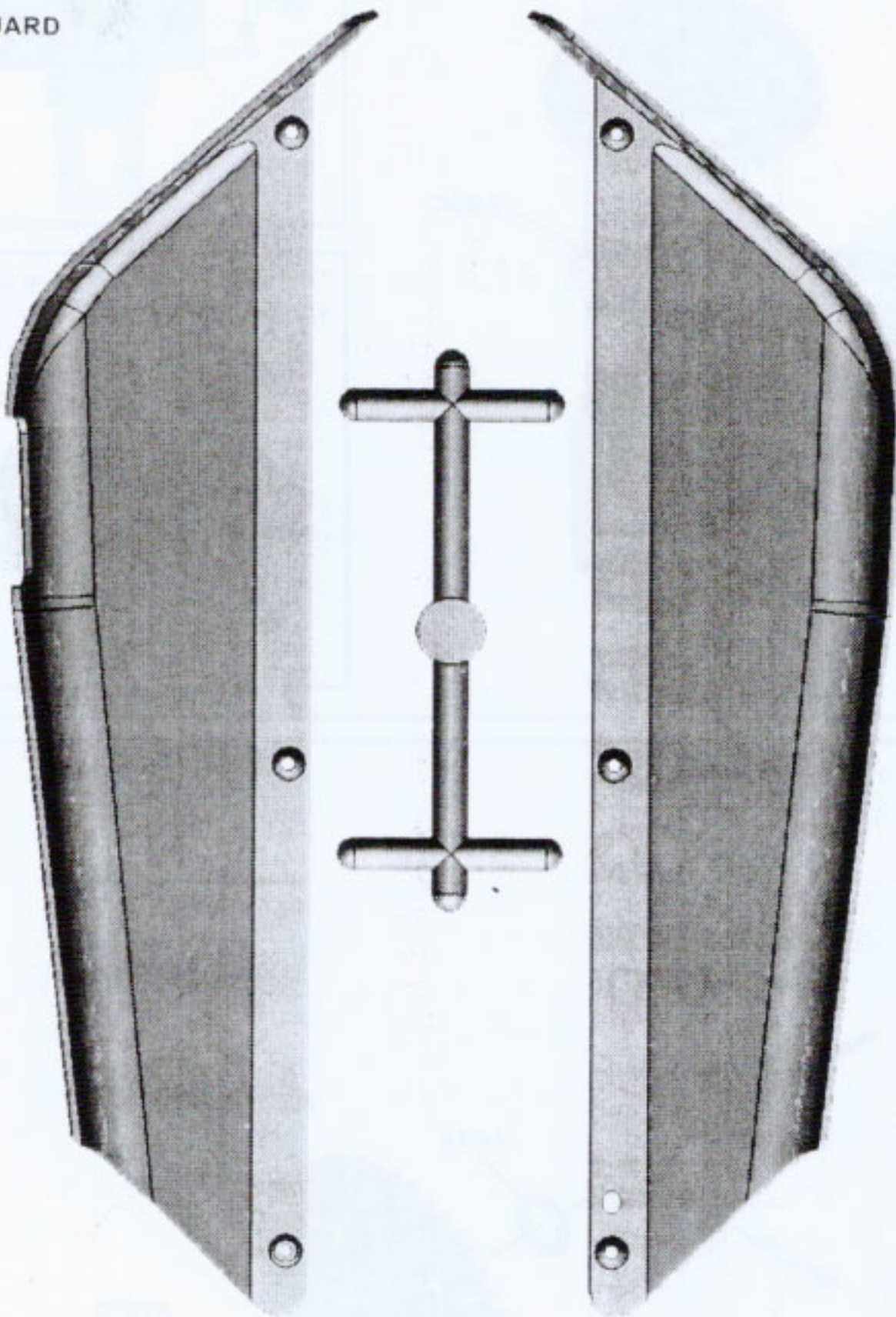
#380
WING
定風翼



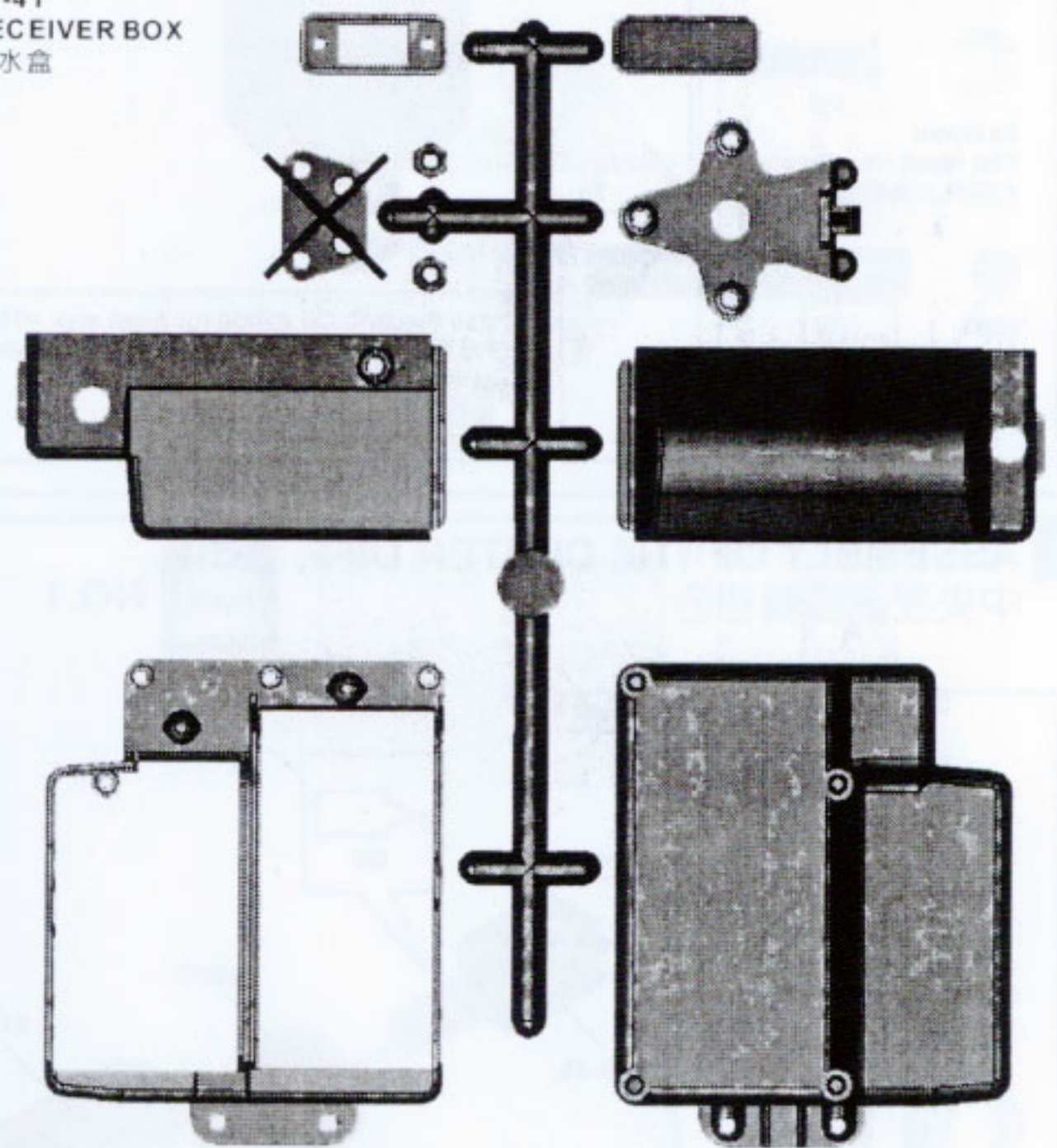
X1-42
WING STAY
定風翼架



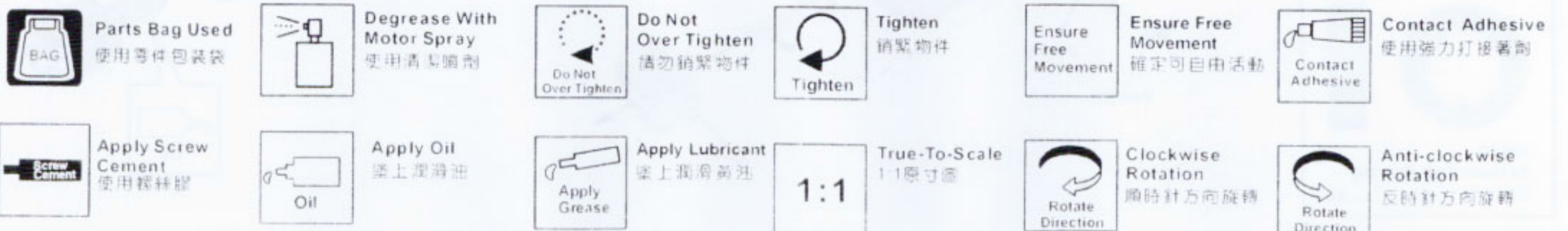
J-41
STONE GUARD
防塵板



X1-41
RECEIVER BOX
防水盒



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



1 ASSEMBLY OF THE FRONT AND REAR DIFF.

前後差速齒輪組合

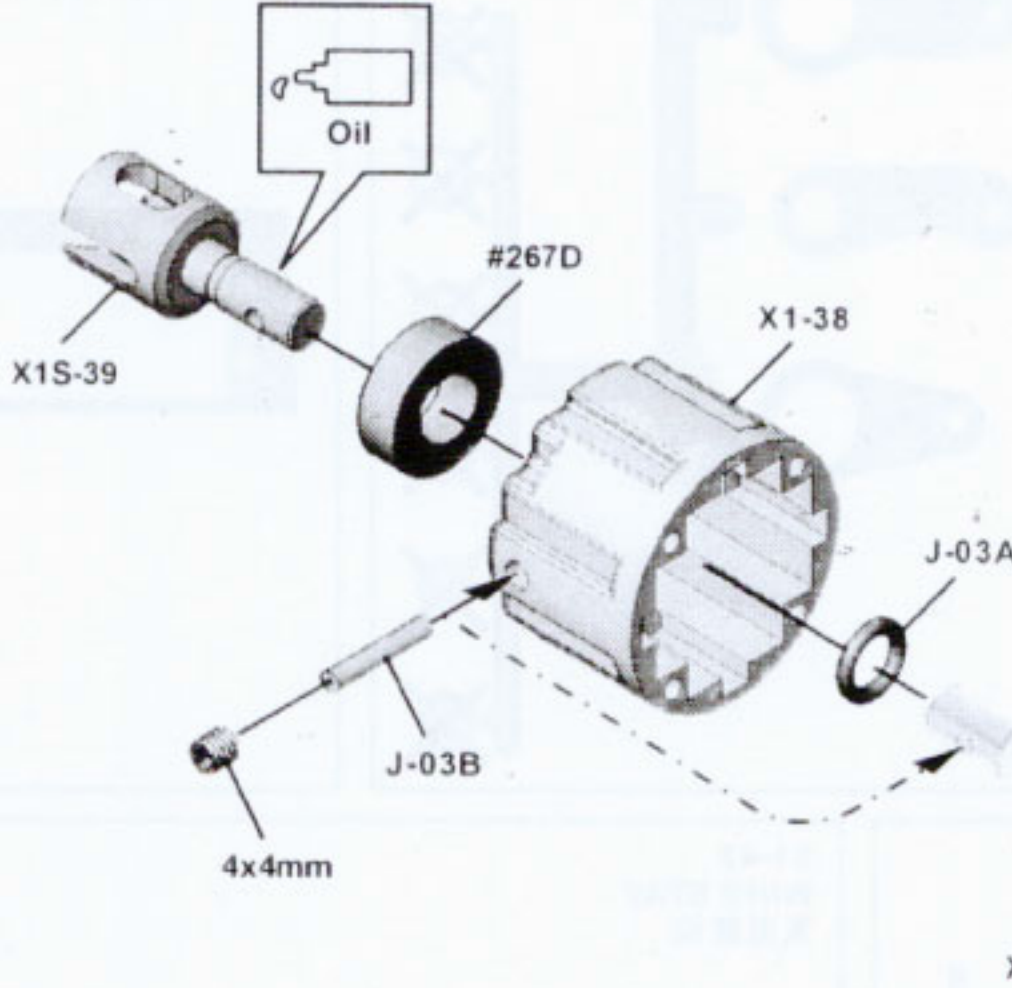


NO.1

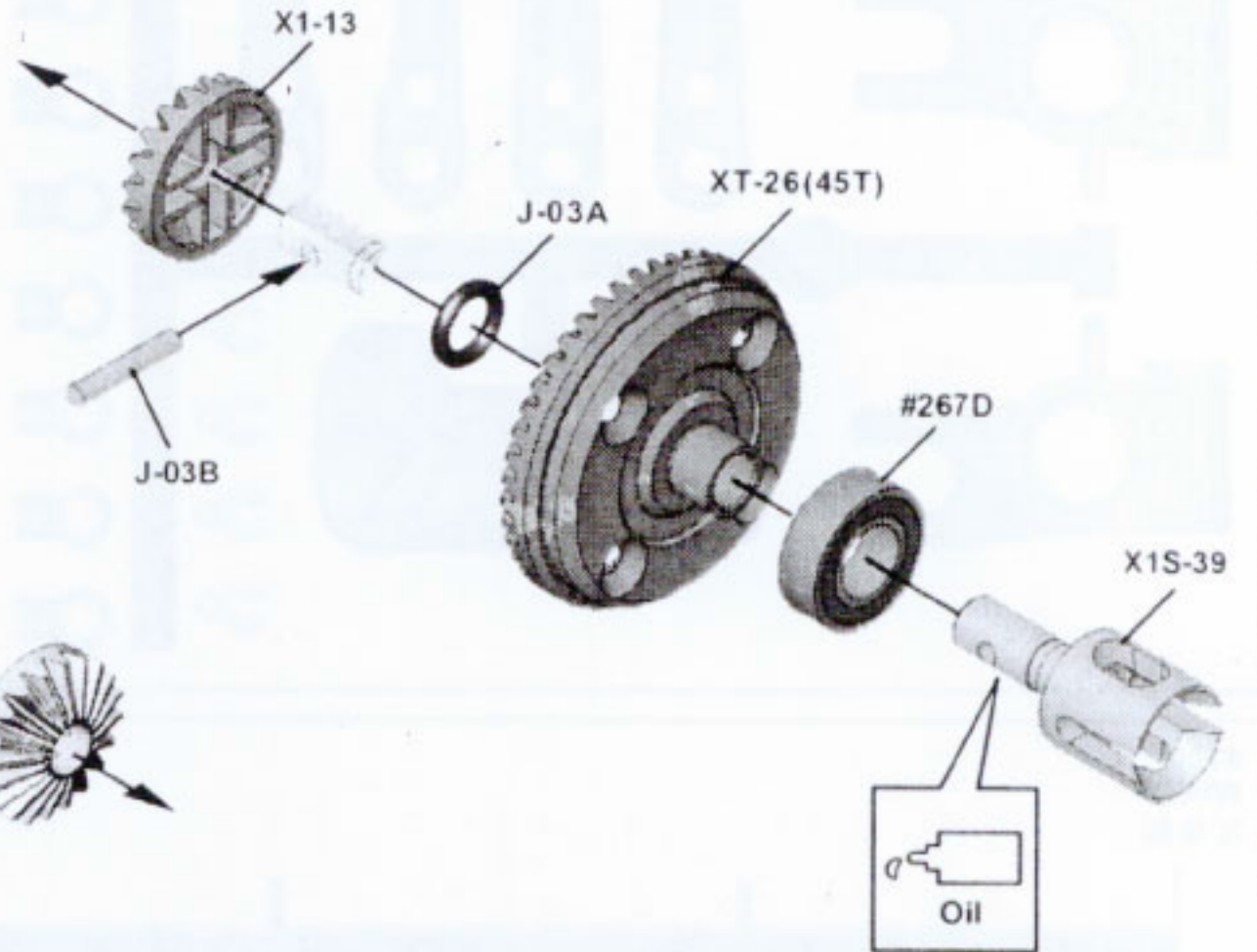
Build two differentials for front and rear
請組合兩個差速器為前後使用

- J-03B
2.5x13.8mm Pin
滾針x4
- 4x4mm
Set Screw
止付螺絲x2
- J-03A
P6 O-Ring
P6 O環x4
- #267D
8x16mm Ball Bearing
培林x4

Step 1



Step 2



2 ASSEMBLY OF THE FRONT AND REAR DIFF.

前後差速齒輪組合

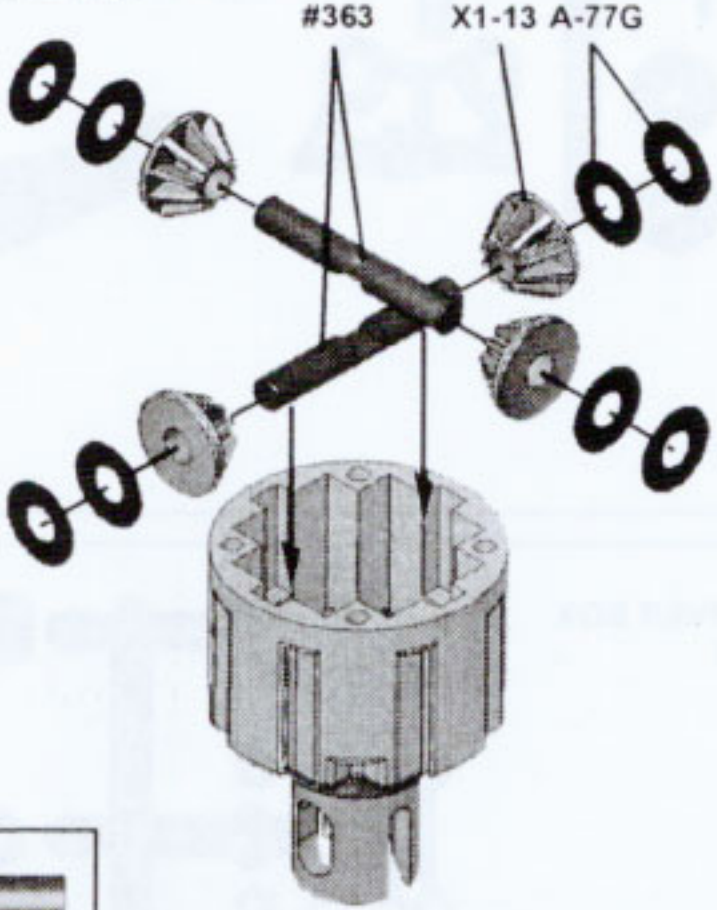


NO.1

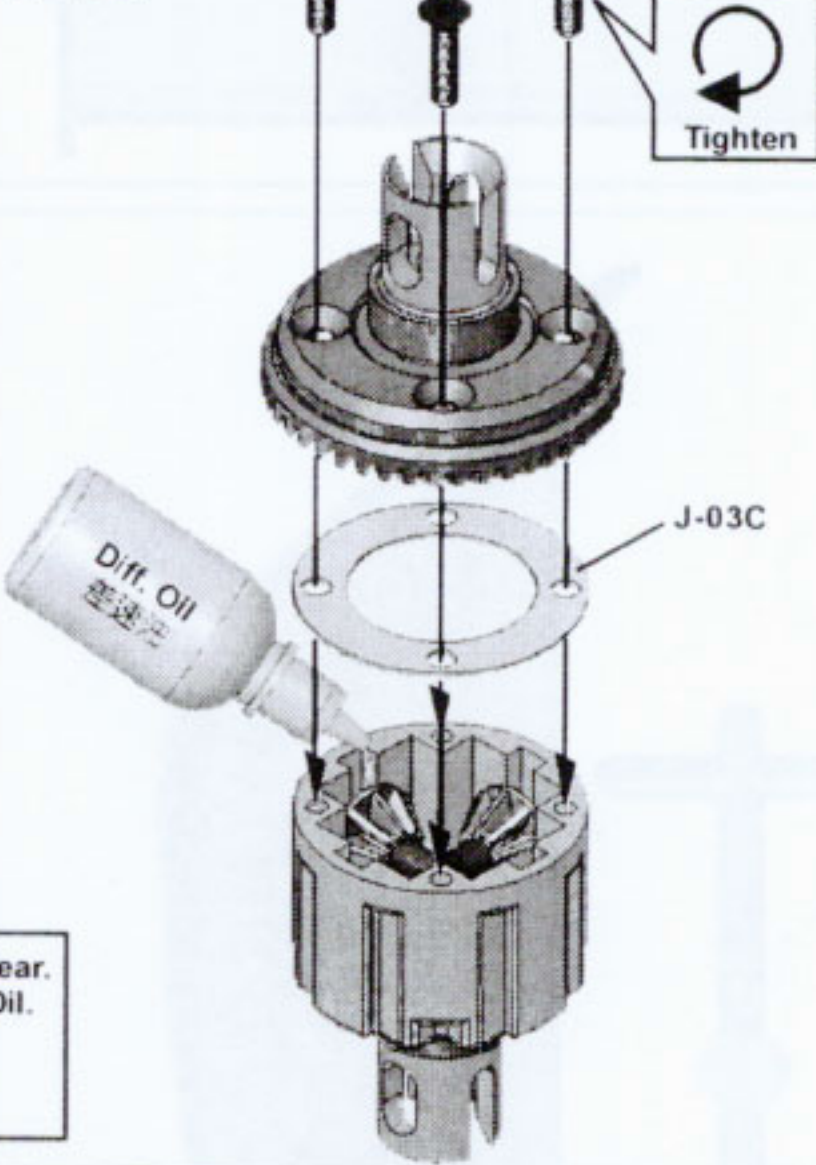
Build two differentials for front and rear
請組合兩個差速器為前後使用

- A-77G
4x10mm Washer
墊片x16
- 3x12mm
Flat Head Hex Screw
圓頭內六角螺絲x8
- #363
4mm
Cross Pin
4mm 十字軸心x4

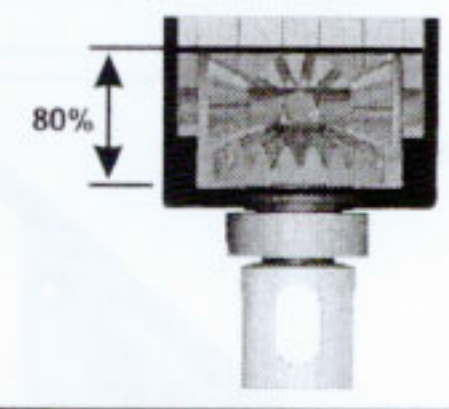
Step 1



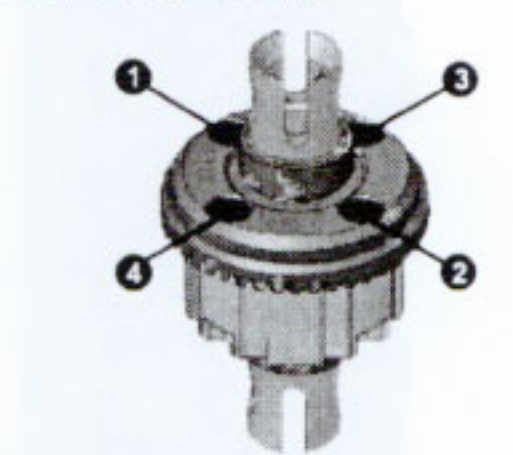
Step 2



*Fill the diff oil just level with the top of the satellite gears.
*差速油加入至差速齒輪頂平面則可。



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



*Use the Diff. Oil #3000 for front and #1000 for rear.
*Fill the Diff. case to approx. 80% with the Diff. Oil.
*前差速器請使用 #3000差速油。
*後差速器請使用 #1000差速油。
*差速油注滿80%即可。

3 ASSEMBLY OF THE CENTER DIFF.

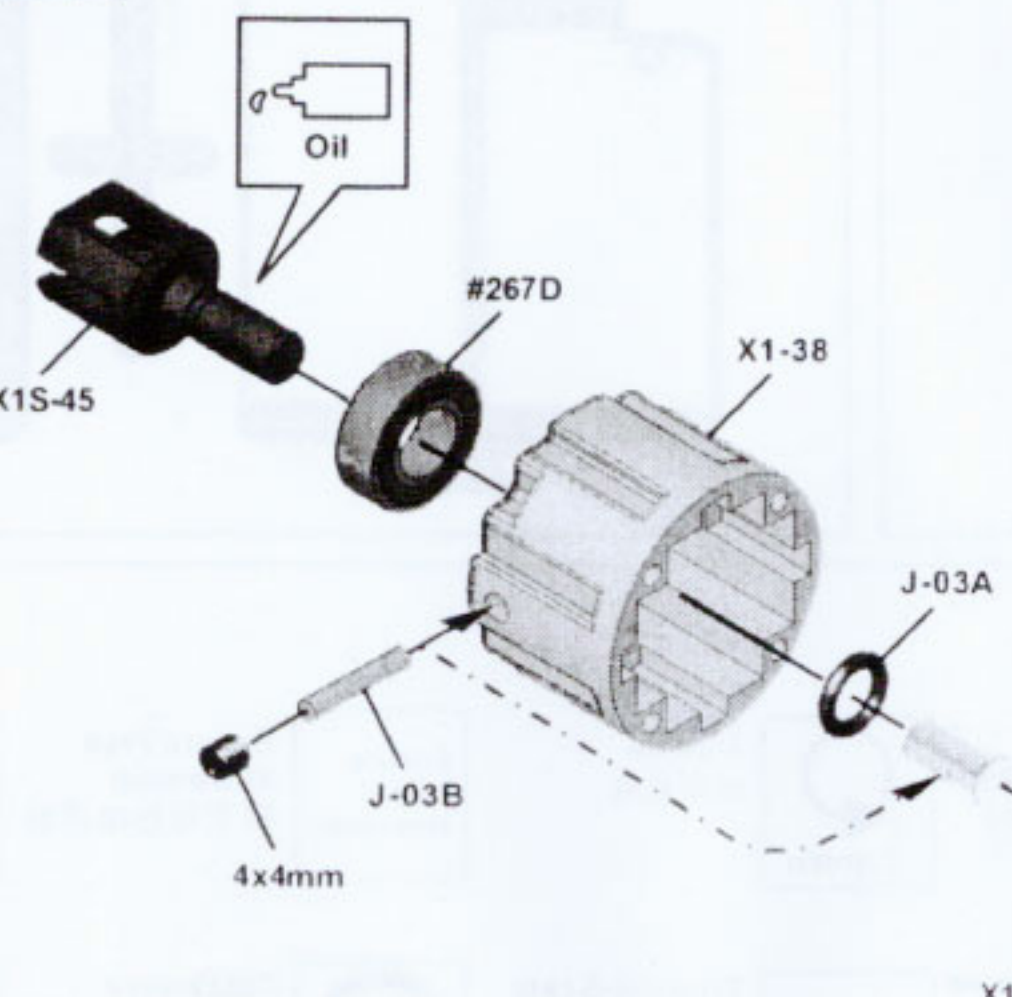
中央差速齒輪組合



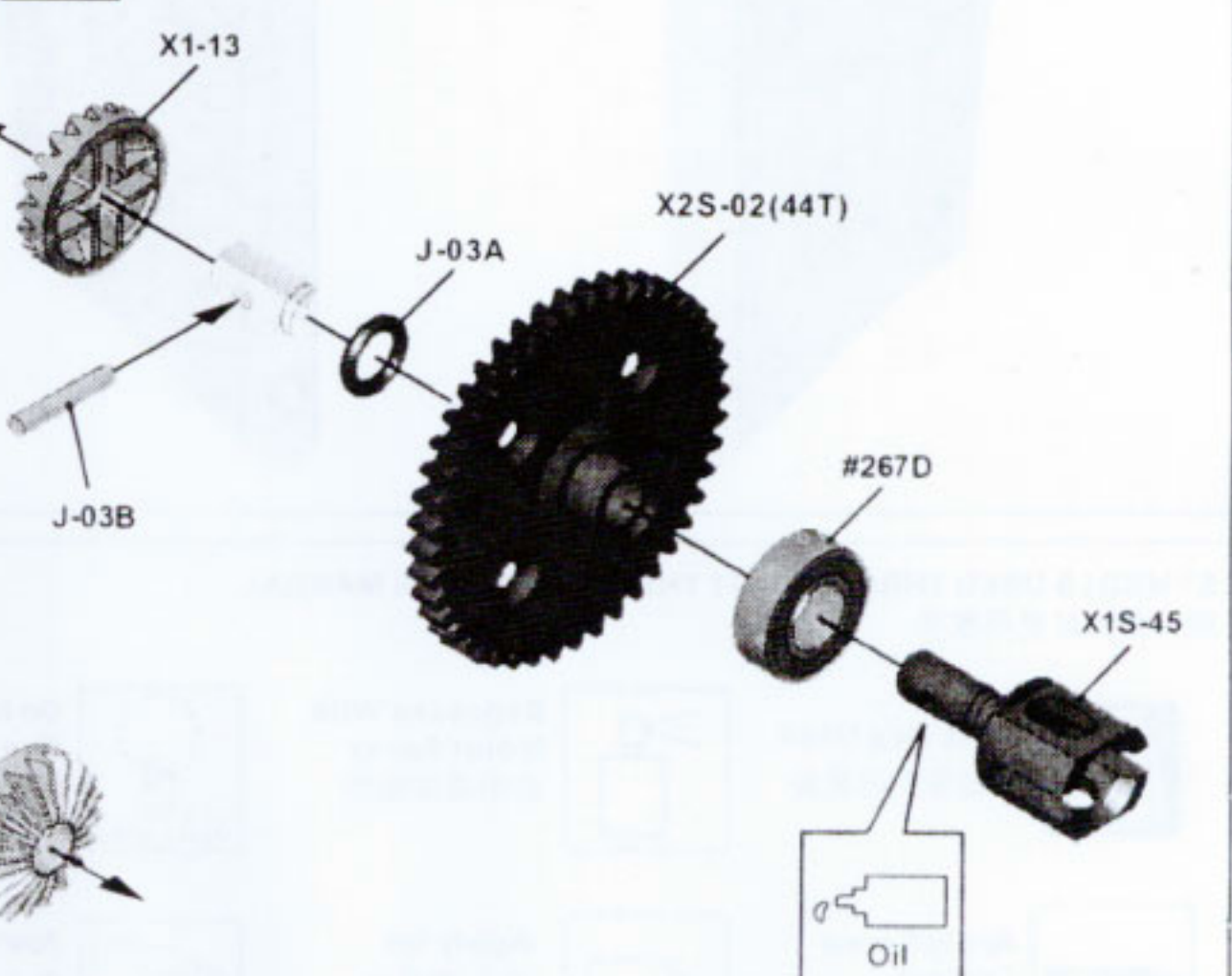
NO.1

- J-03B
2.5x13.8mm Pin
滾針x2
- 4x4mm
Set Screw
止付螺絲x1
- J-03A
P6 O-Ring
P6 O環x2
- #267D
8x16mm Ball Bearing
培林x2

Step 1

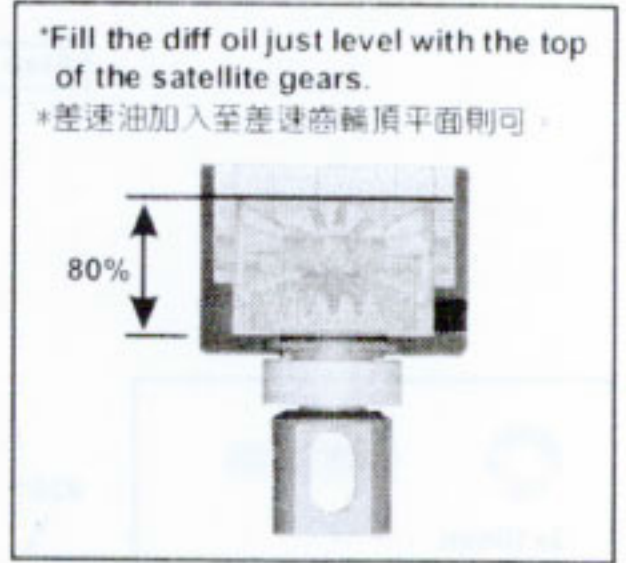
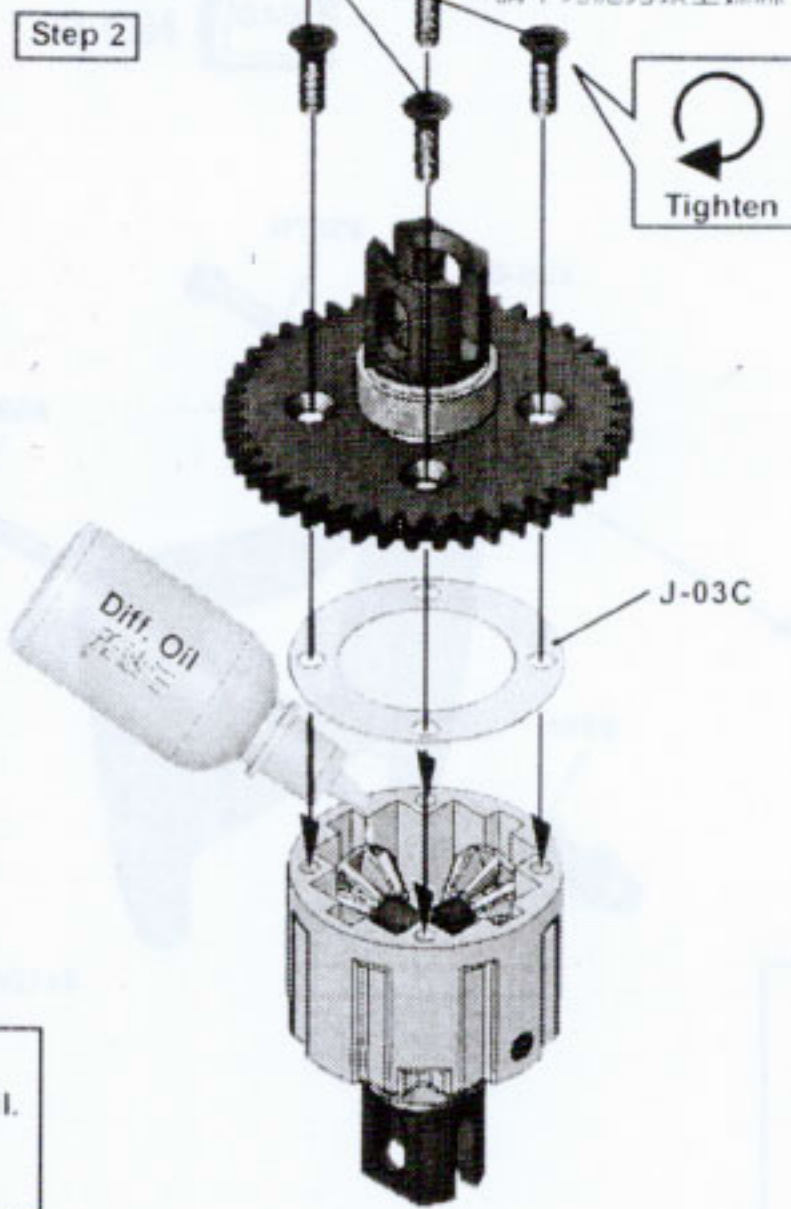
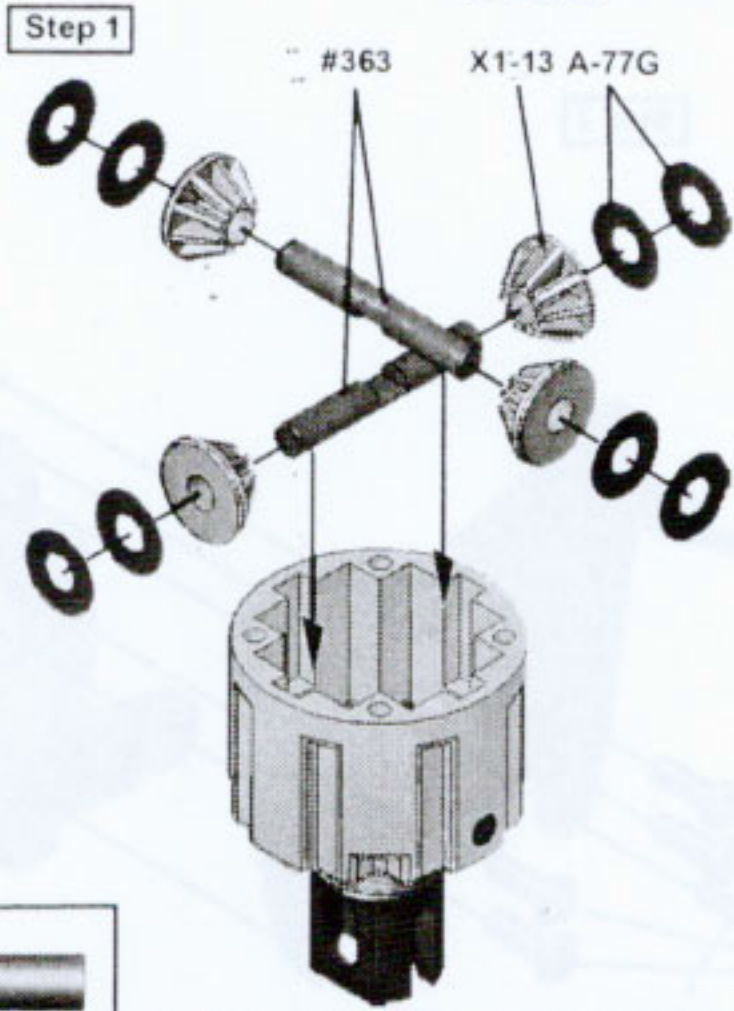


Step 2



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

BAG NO.1



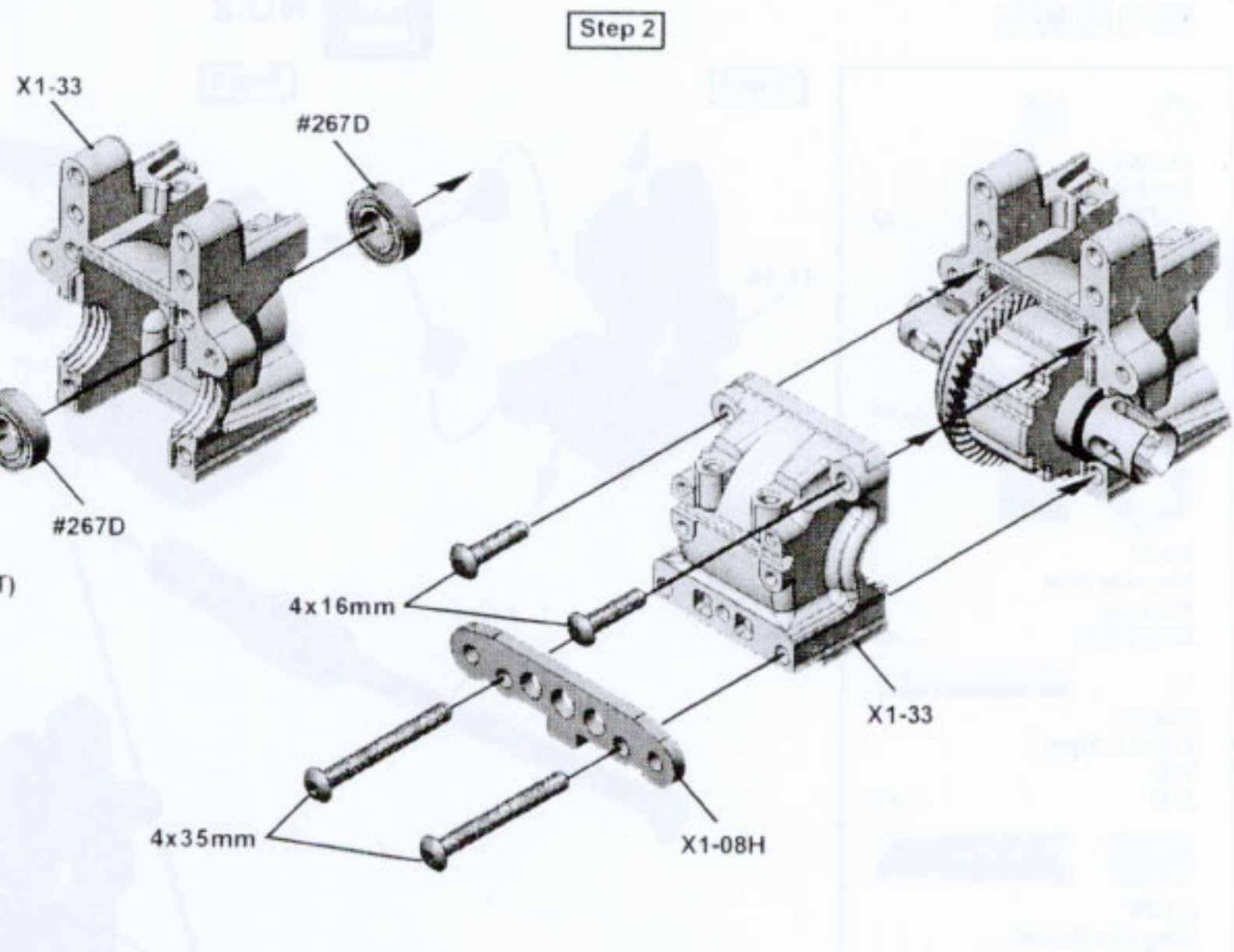
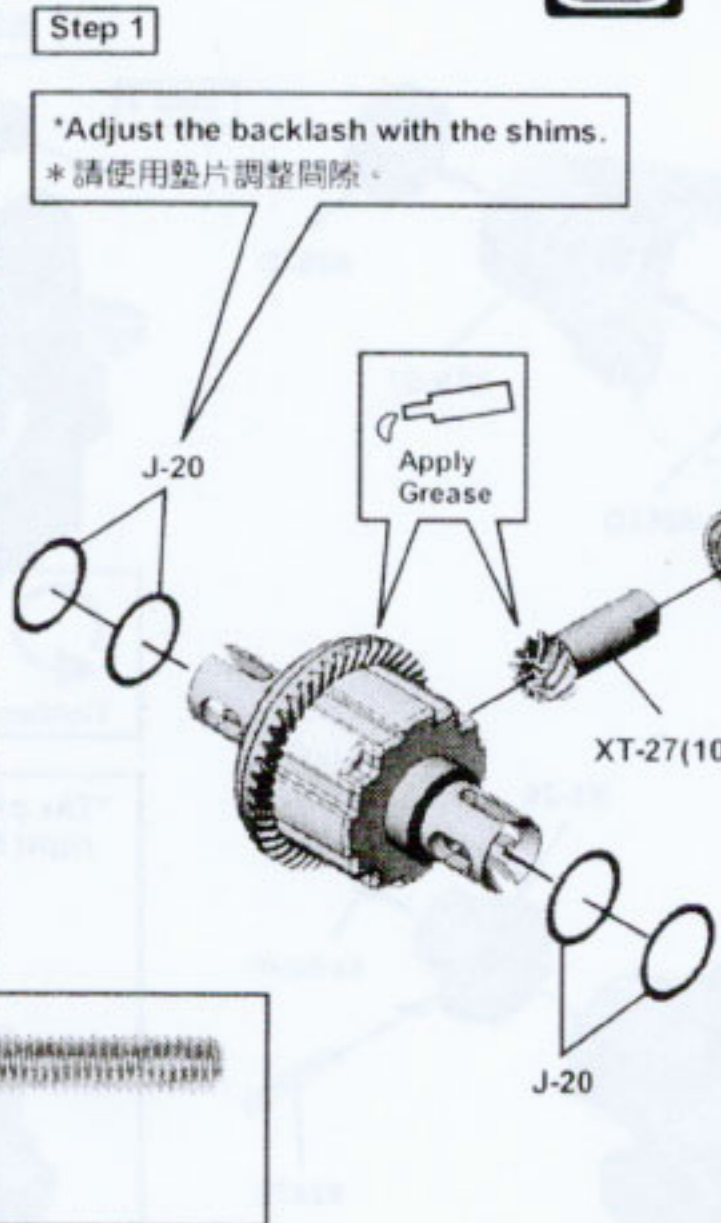
- A-77G 4x10mm Washer 墊片x8
- 3x12mm Flat Head Hex Screw 血頭內六角螺絲x4
- #363 4mm Cross Pin 4mm 十字軸心x2

*Use the Diff. Oil #5000 for the center diff.
 *Fill the Diff. case to approx. 80% with the Diff. Oil.
 *中差速器請使用#5000差速油。
 *差速油注滿80%即可。

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

BAG NO.2

- J-20 13x16x0.2mm Shim 墊片x4
- #267D 8x16mm Ball Bearing 培林x2
- 4x16mm Hex Screw 半丸內六角螺絲x2
- 4x35mm Hex Screw 半丸內六角螺絲x2

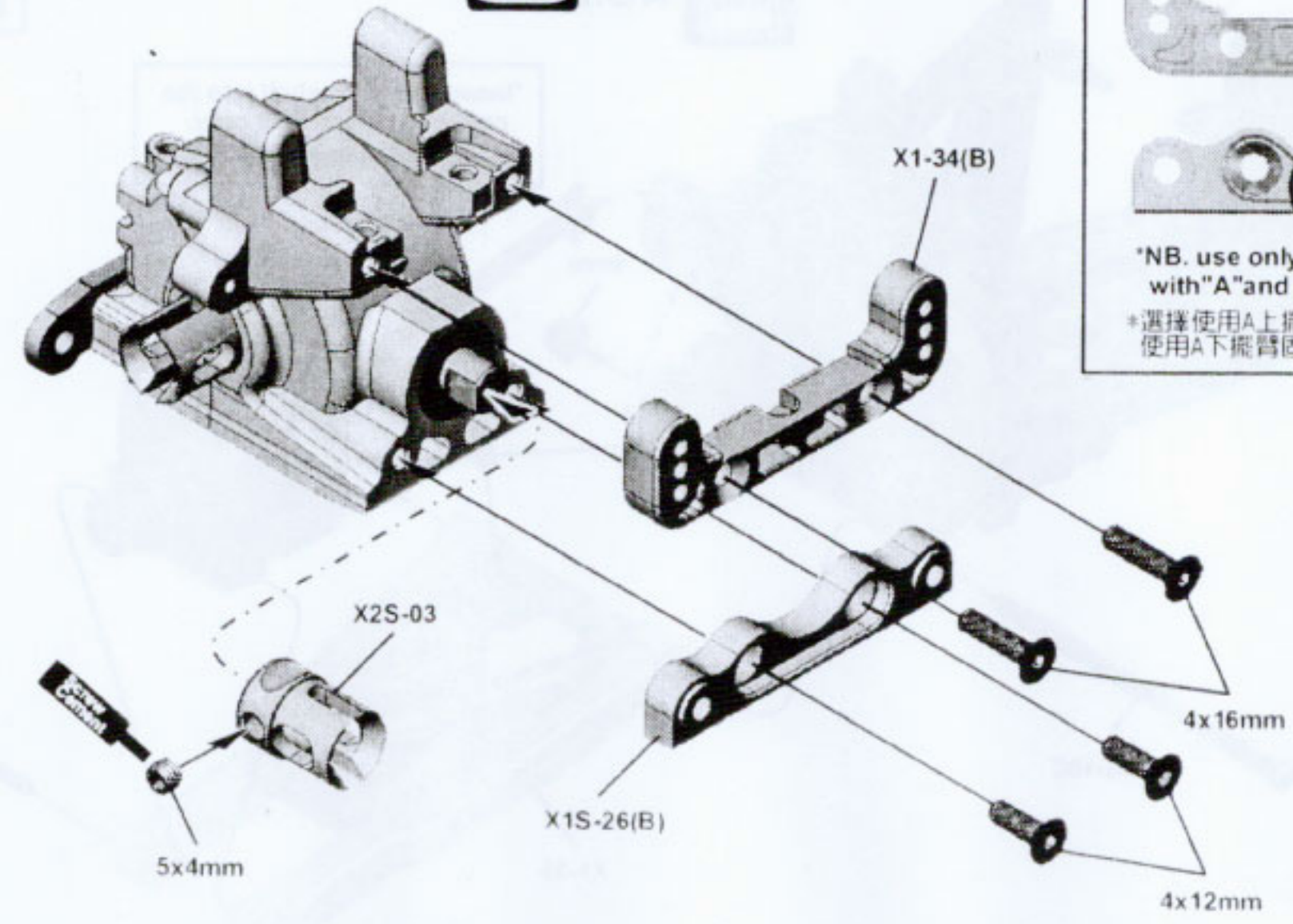


*Adjust the backlash with the shims.
 *請使用墊片調整間隙。

6 ASSEMBLY OF THE FRONT ARMS HOLDER 前擺臂固定座組合

BAG NO.2

- 5x4mm Set Screw 止付螺絲x1
- 4x12mm Flat Head Hex Screw 血頭內六角螺絲x2
- 4x16mm Flat Head Hex Screw 血頭內六角螺絲x2



*Caster angle can be changed to A or B
 *可使用A或B調整後傾角特性。

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

	Steering Characteristics 轉向特性
(A) Caster (High/22 Degree) 後傾角 (大/22度)	Steering response becomes milder. 轉向反應較為中性
(B) Caster (Low/20 Degree) 後傾角 (小/20度)	Steering response becomes quicker. 轉向反應較為快速

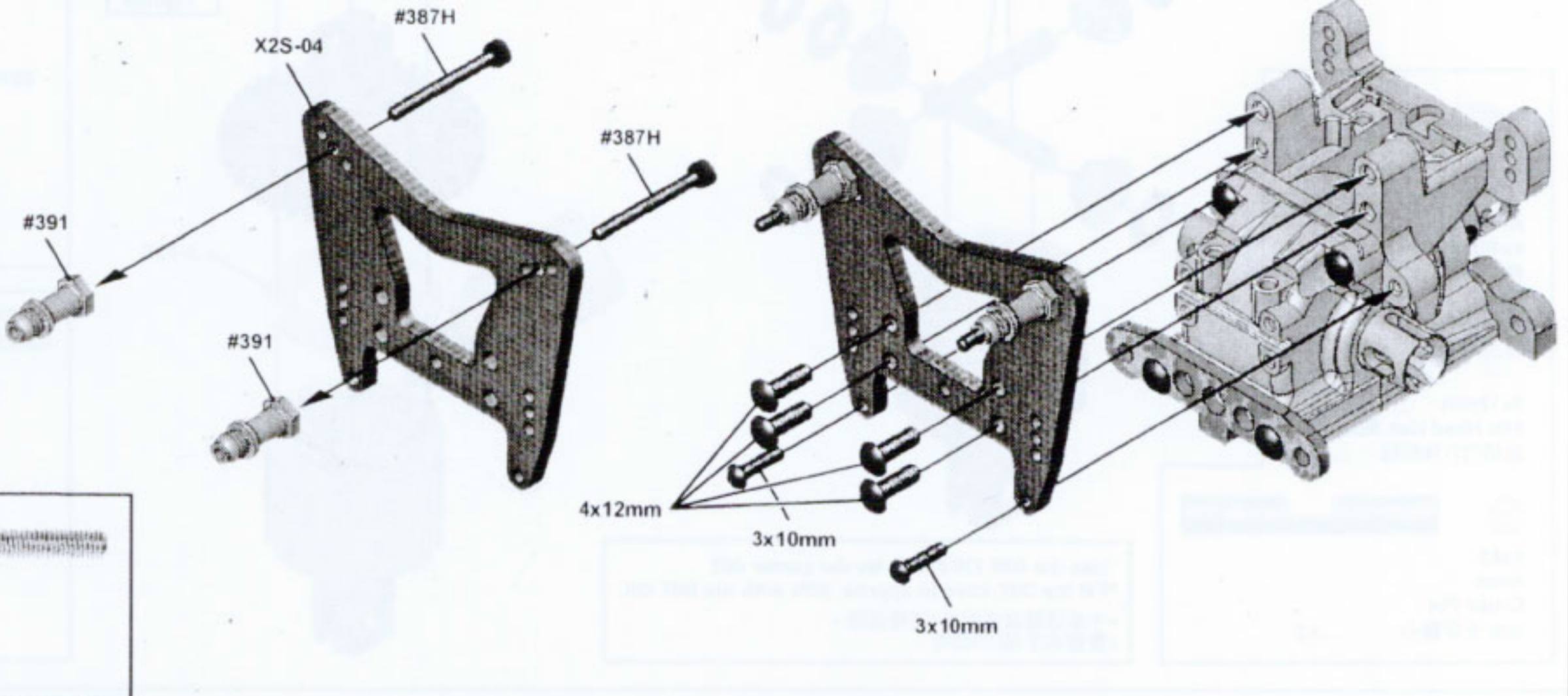
7 ASSEMBLY OF THE FRONT SHOCK STAY
前油壓架組合

BAG NO.2 NO.9

Step 1

Step 2

-  3x10mm Hex Screw
半丸內六角螺絲x2
-  4x12mm Hex Screw
半丸內六角螺絲x4
-  #387H 3x28mm Cap Screw
有頭內六角螺絲x2



8 ASSEMBLY OF THE KNUCKLE ARMS
轉向座組合

BAG NO.2

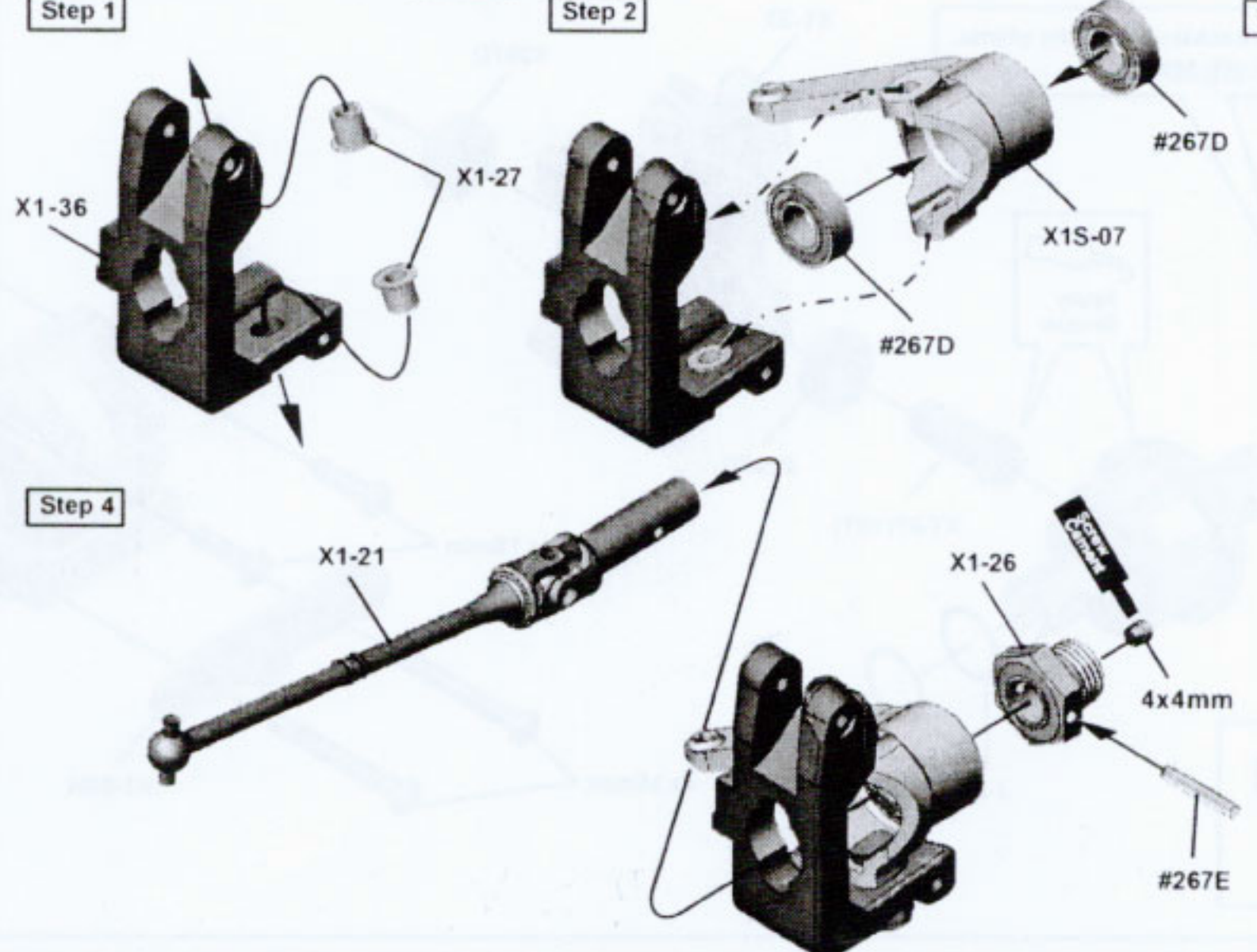
Step 1

Step 2

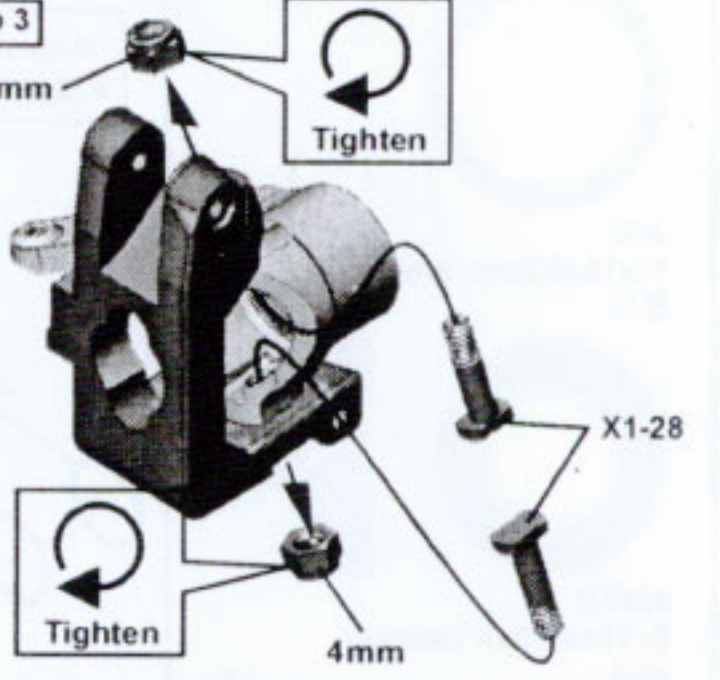
Step 3

Step 4

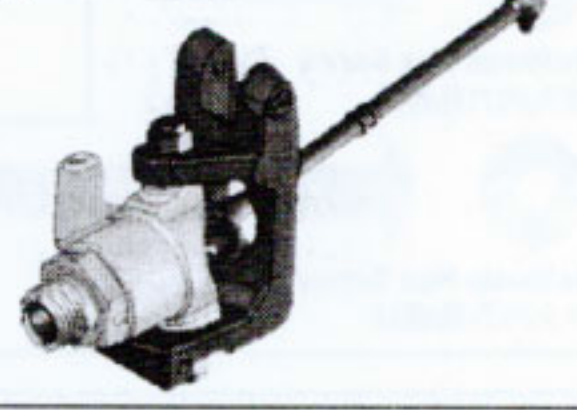
-  4x4mm Set Screw
止付螺絲x2
-  4mm Nylon Nut
尼龍螺帽x4
-  X1-27 Knuckle Arm Bushing
轉向座襯套x4
- #267E 2.5x16.8mm Pin" data-bbox="65 550 100 575"/> #267E 2.5x16.8mm Pin
滾針x2
-  X1-28 King Pin Screw
大王銷螺絲x4



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



*The picture shown is the assembly of right hand side.

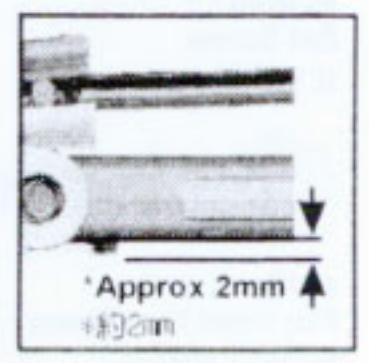
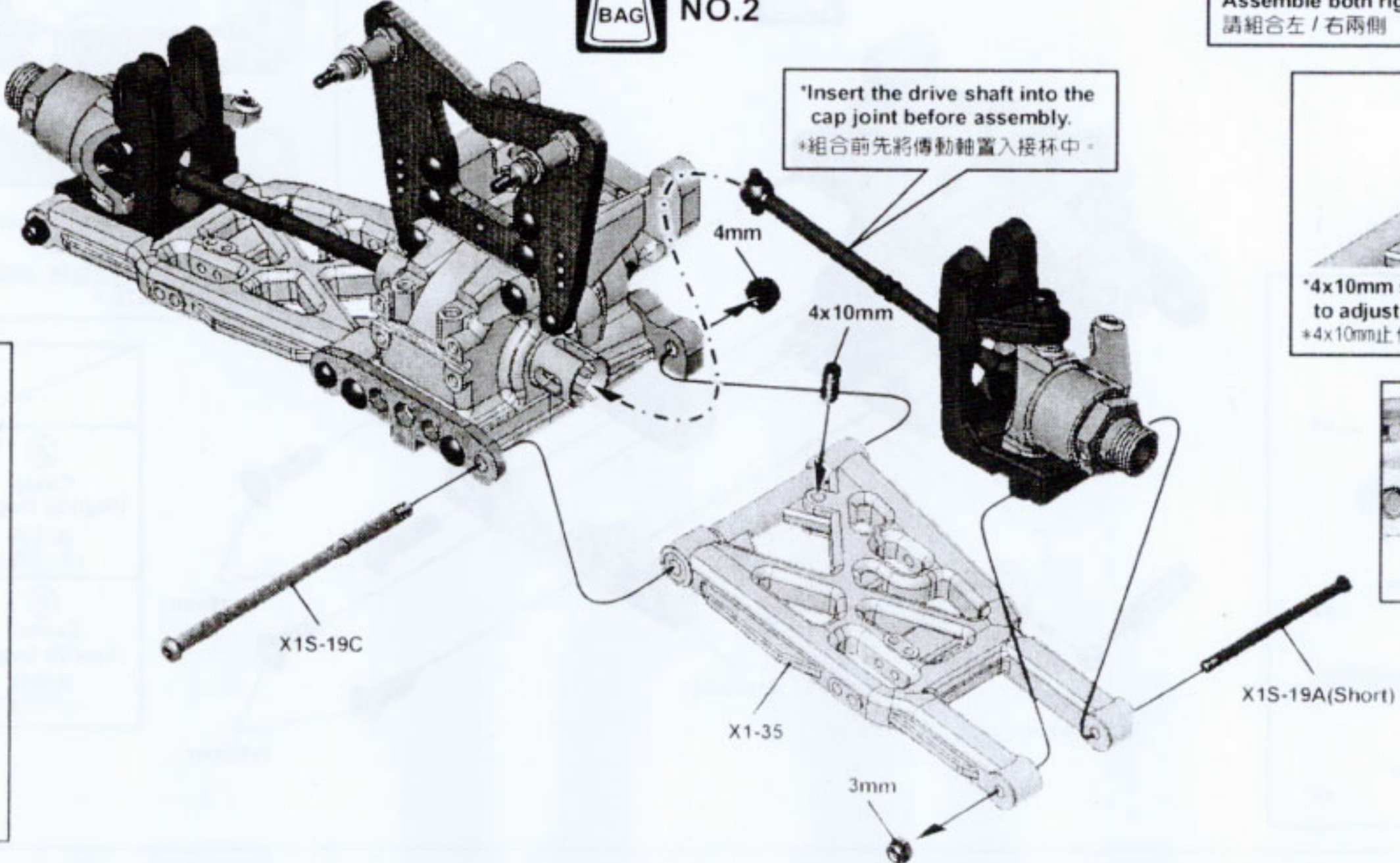


9 ASSEMBLY OF THE FRONT SUSPENSION ARMS
前懸吊系統組合

BAG NO.2

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

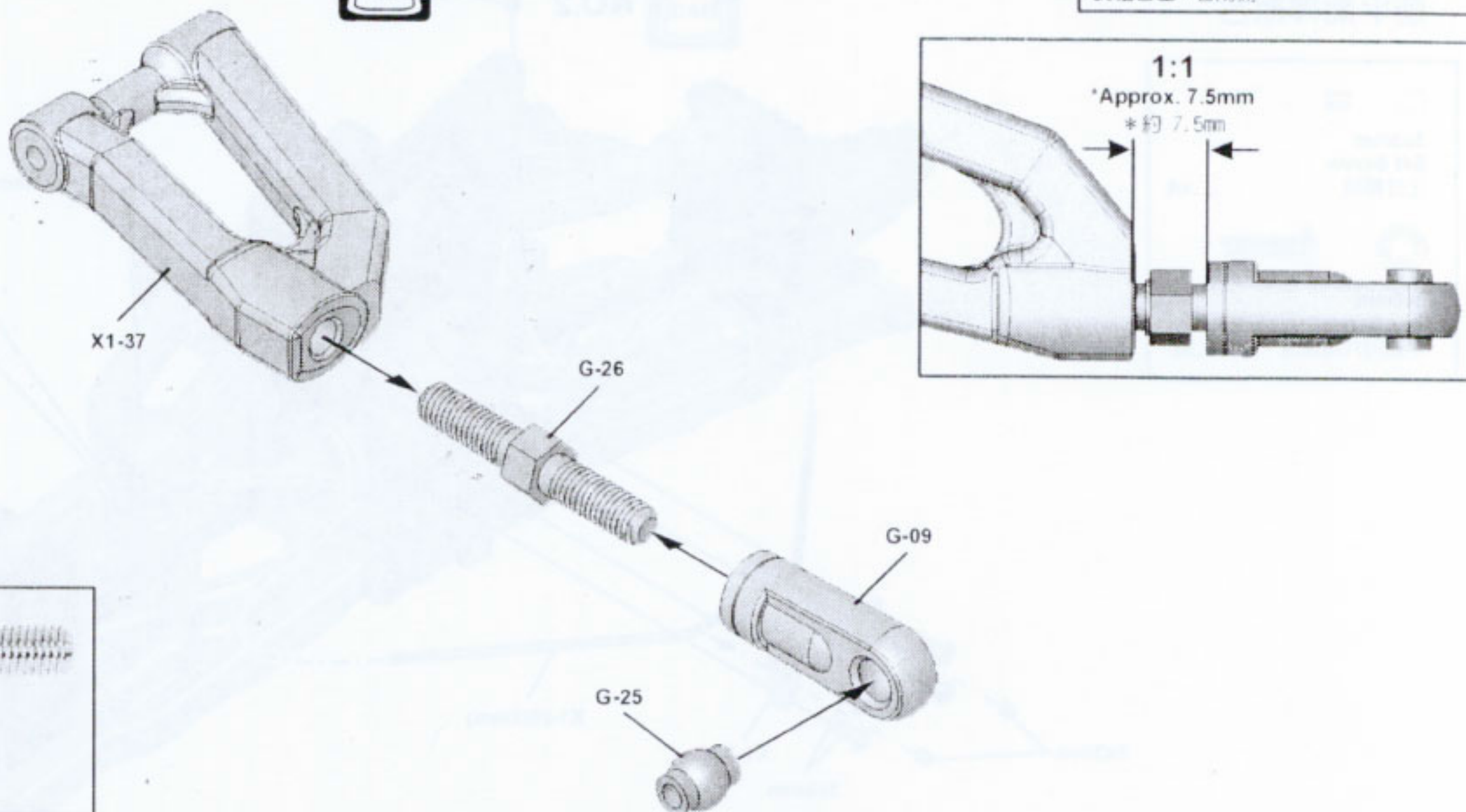
-  3mm Nylon Nut
尼龍螺帽x2
-  4mm Nylon Nut
尼龍螺帽x2
-  4x10mm Set Screw
止付螺絲x2



10 ASSEMBLY OF THE FRONT UPPER ARMS
前上擺臂組合

BAG NO.2

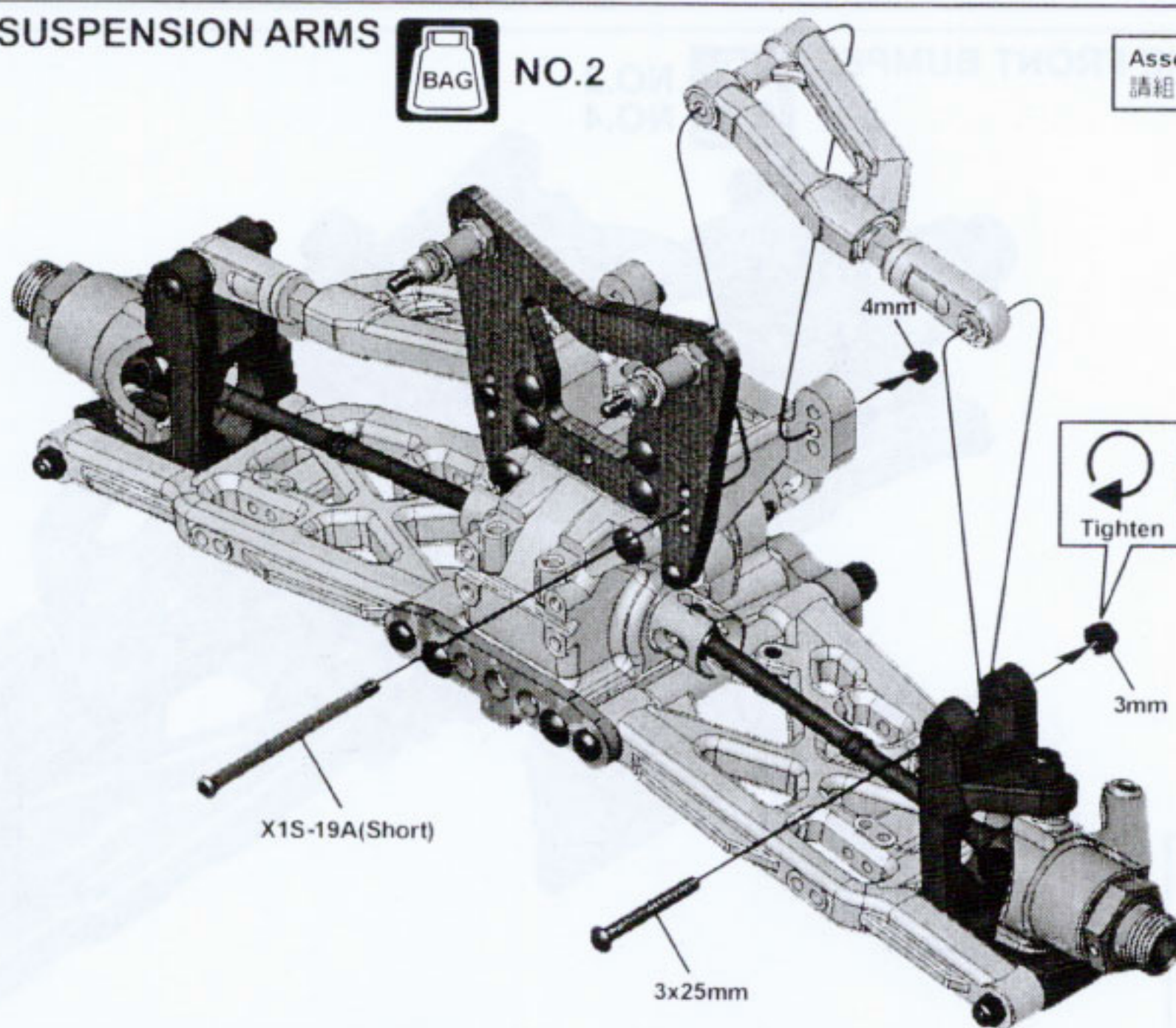
Assemble both right and left sides
請組合左 / 右兩側



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

BAG NO.2

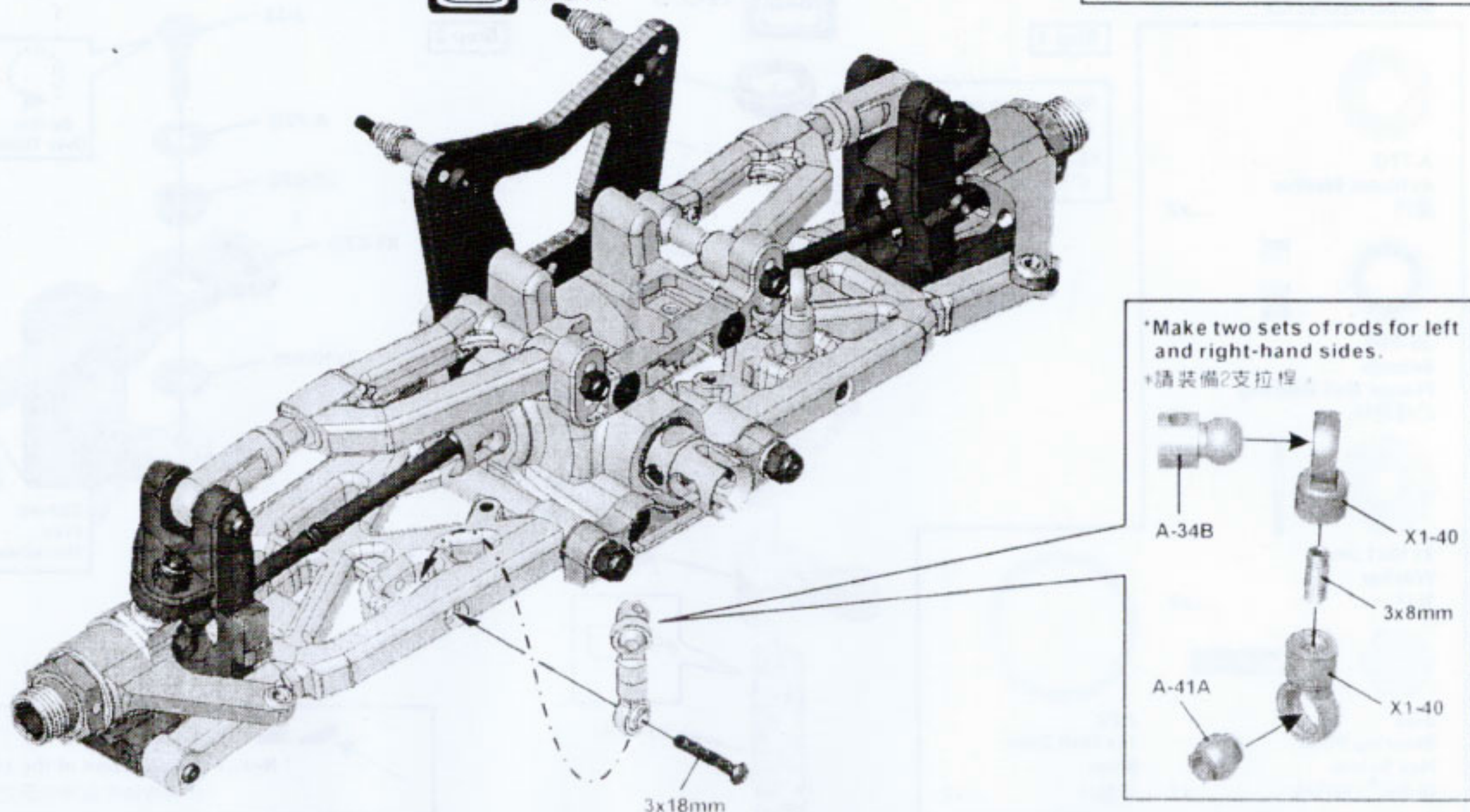
Assemble both right and left sides
請組合左 / 右兩側



12 ASSEMBLY OF THE FRONT STABILIZER RODS
前平衡桿組合

BAG NO.2 NO.4

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



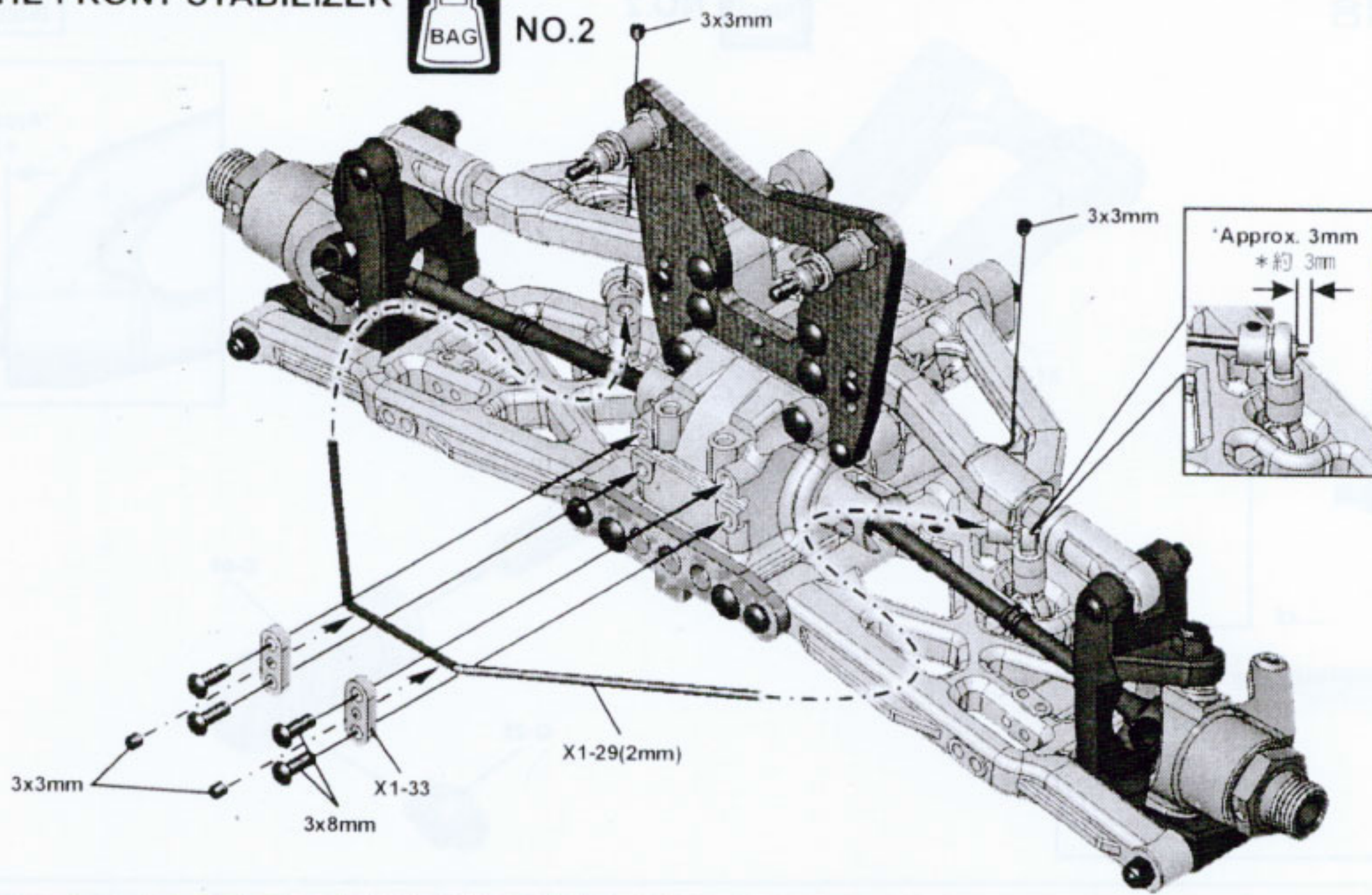
13 ASSEMBLY OF THE FRONT STABILIZER

前平衡桿組合



NO.2

- 3x3mm Set Screw 止付螺絲x4
- 3x8mm Hex Screw 半孔內六角螺絲x4



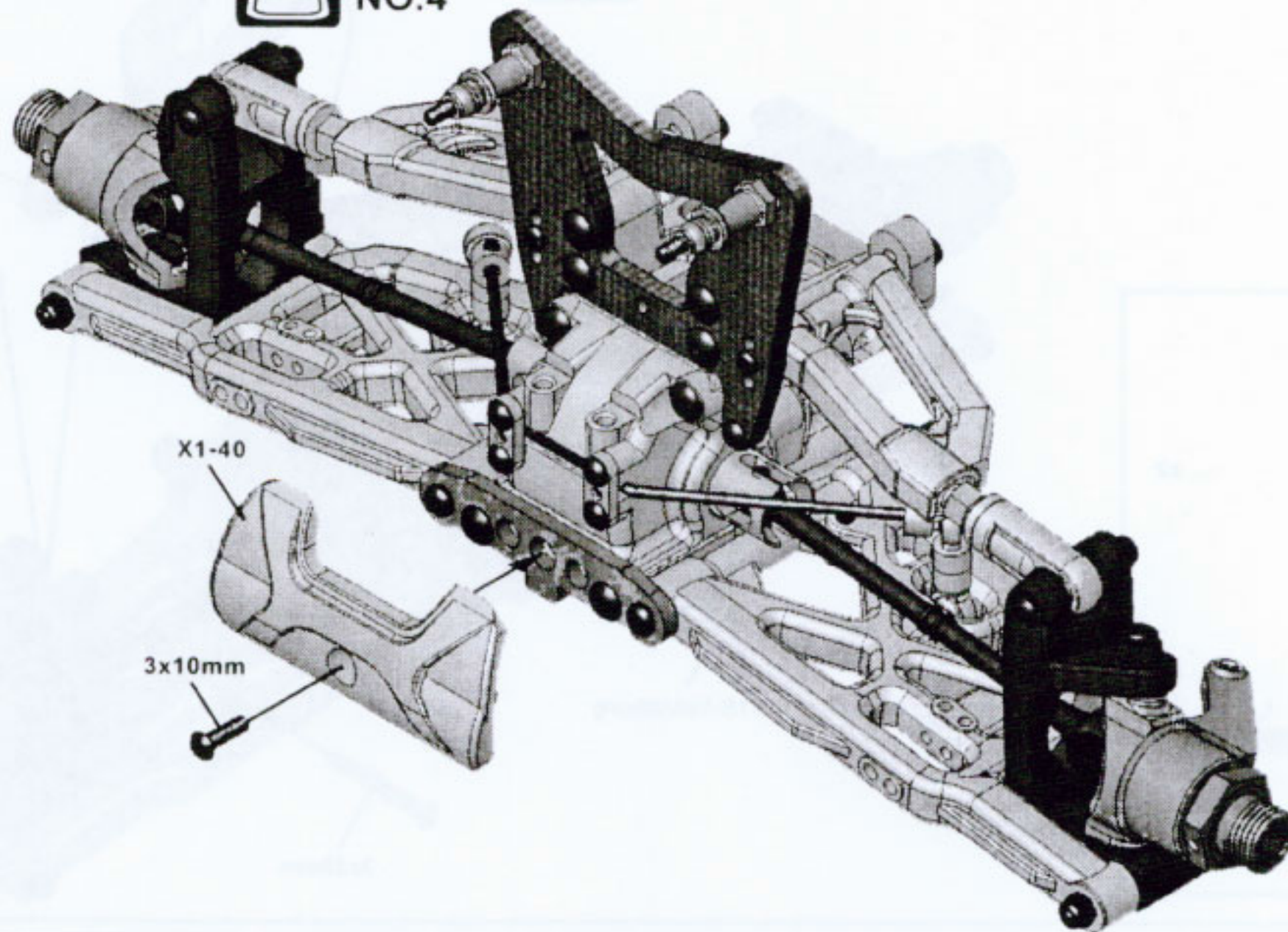
14 ASSEMBLY OF THE FRONT BUMPER

前防撞板組合



NO.2
NO.4

- 3x10mm Hex Screw 半孔內六角螺絲x1



15 ASSEMBLY OF THE SERVO SAVER

緩衝組組合

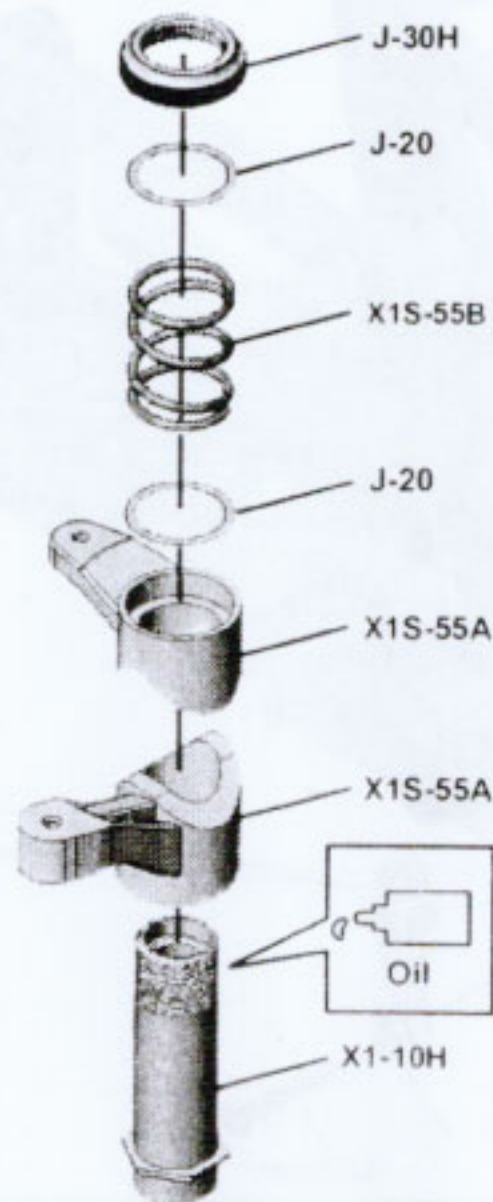


NO.3

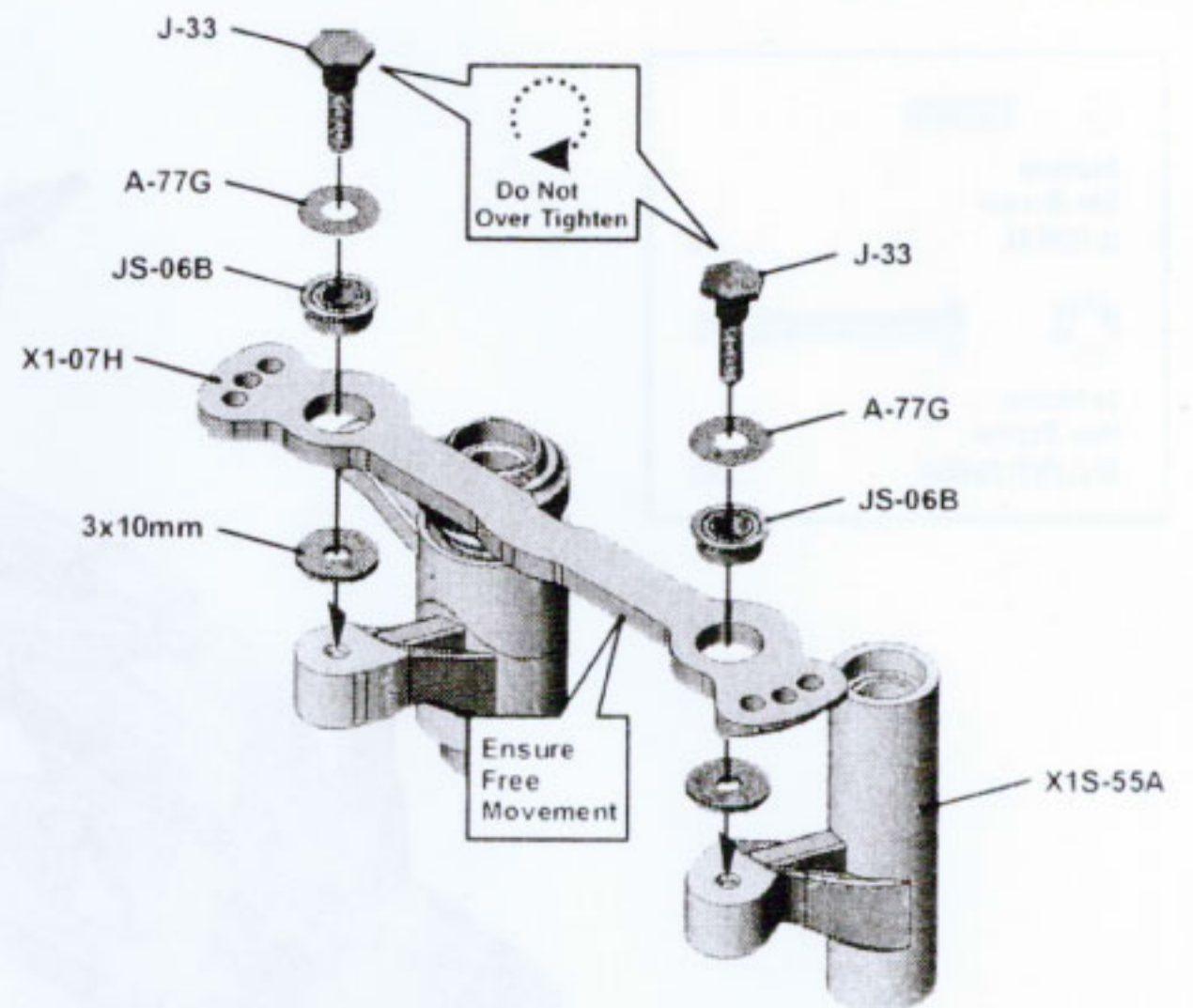
- A-77G 4x10mm Washer 墊片x2
- JS-06B 4x8mm Flange Ball Bearing 凸緣培林x2
- 3x10x1.0mm Washer 墊片x2
- J-33 Steering Plate Hex Screw 緩衝組六角螺絲x2
- J-20 13x16x0.2mm Shim 薄墊片x2

Step 1

*Put a drop of oil before assembly.
*裝配前請預先滴一小點油在螺絲上。



Step 2



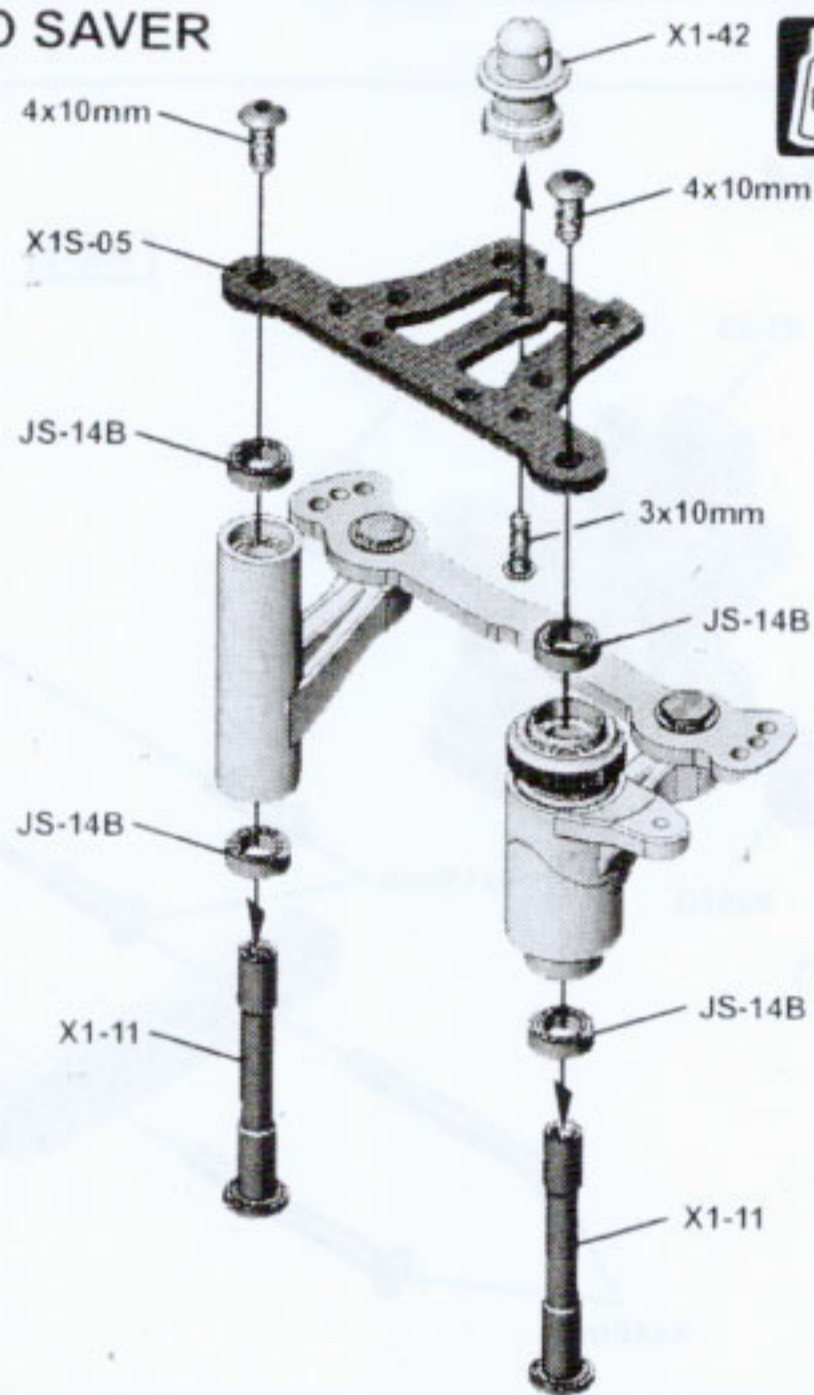
* Notice the direction of the servo saver connecting plate.
* 組裝時請依箭頭指示之對角位置為向下方向。

16 ASSEMBLY OF THE SERVO SAVER

緩衝組組合

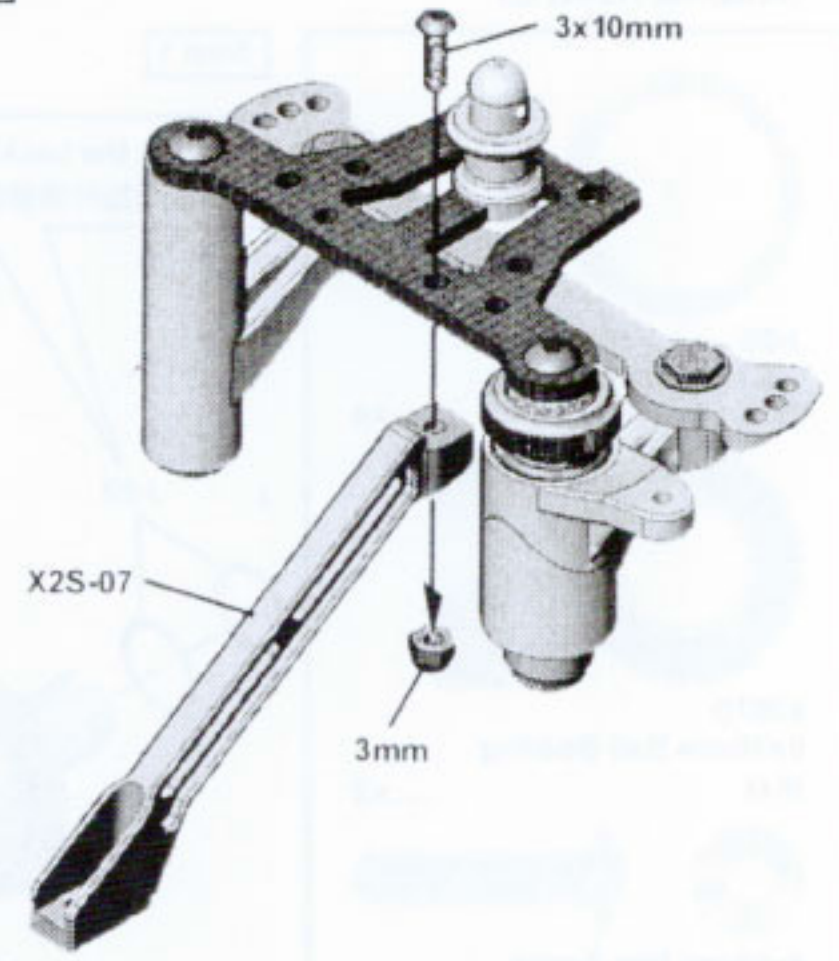


Step 1



NO.3
NO.4

Step 2



17 ASSEMBLY OF THE STEERING TIE-ROD

轉向拉桿組合

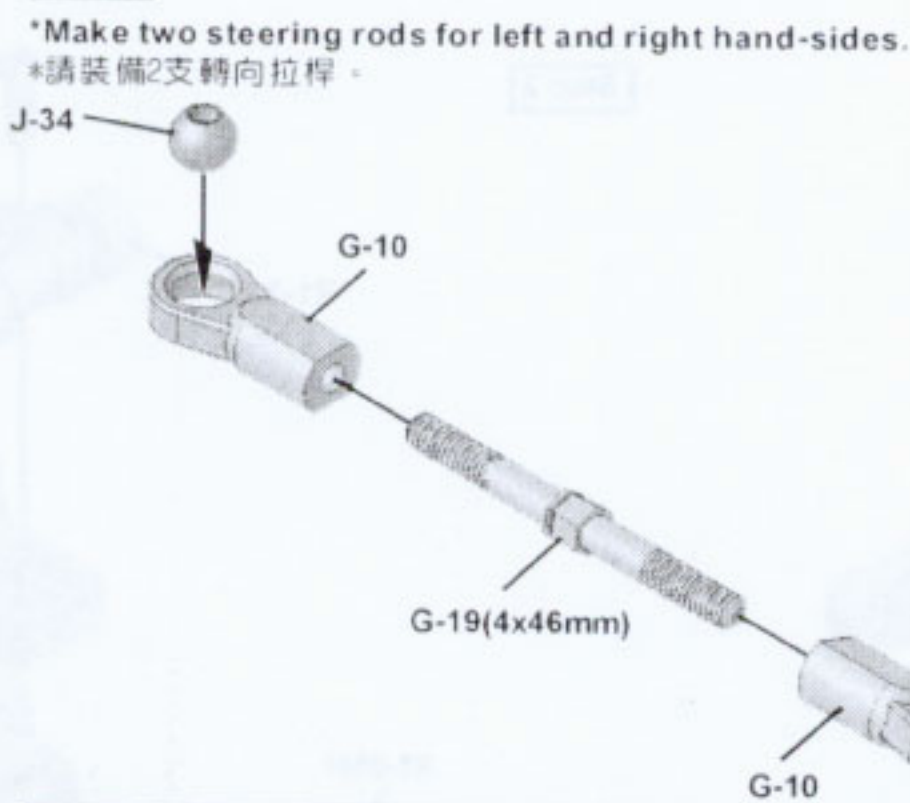


NO.3

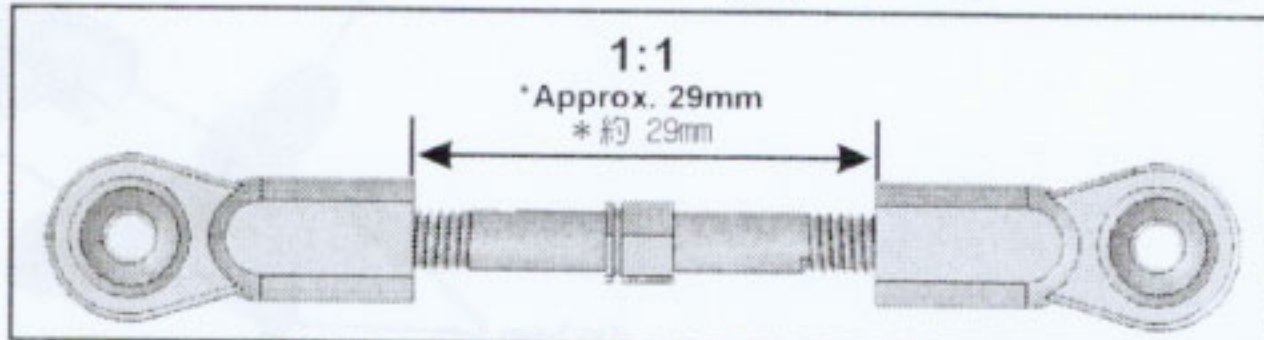
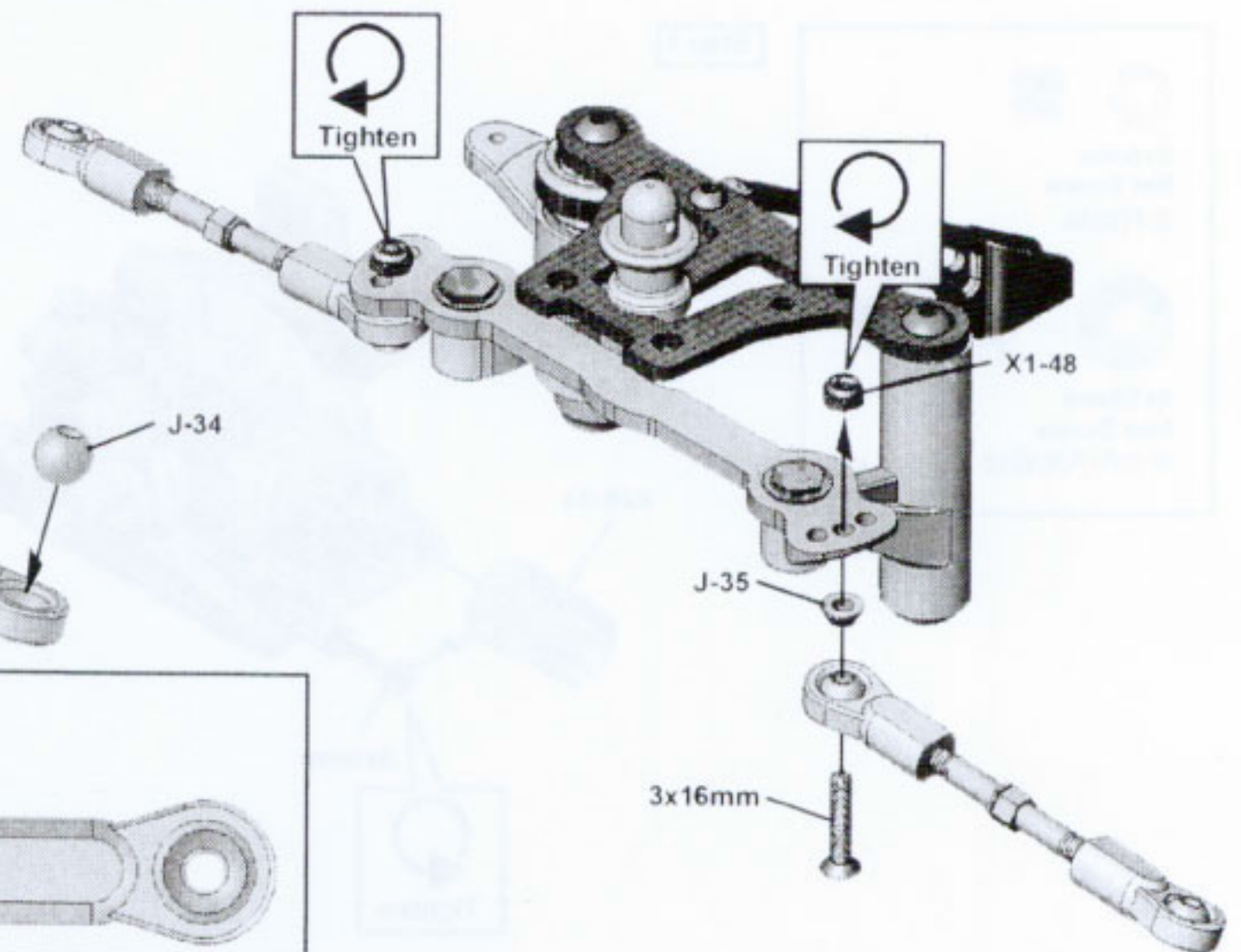
Assemble both right and left sides
請組合左 / 右兩側



Step 1



Step 2

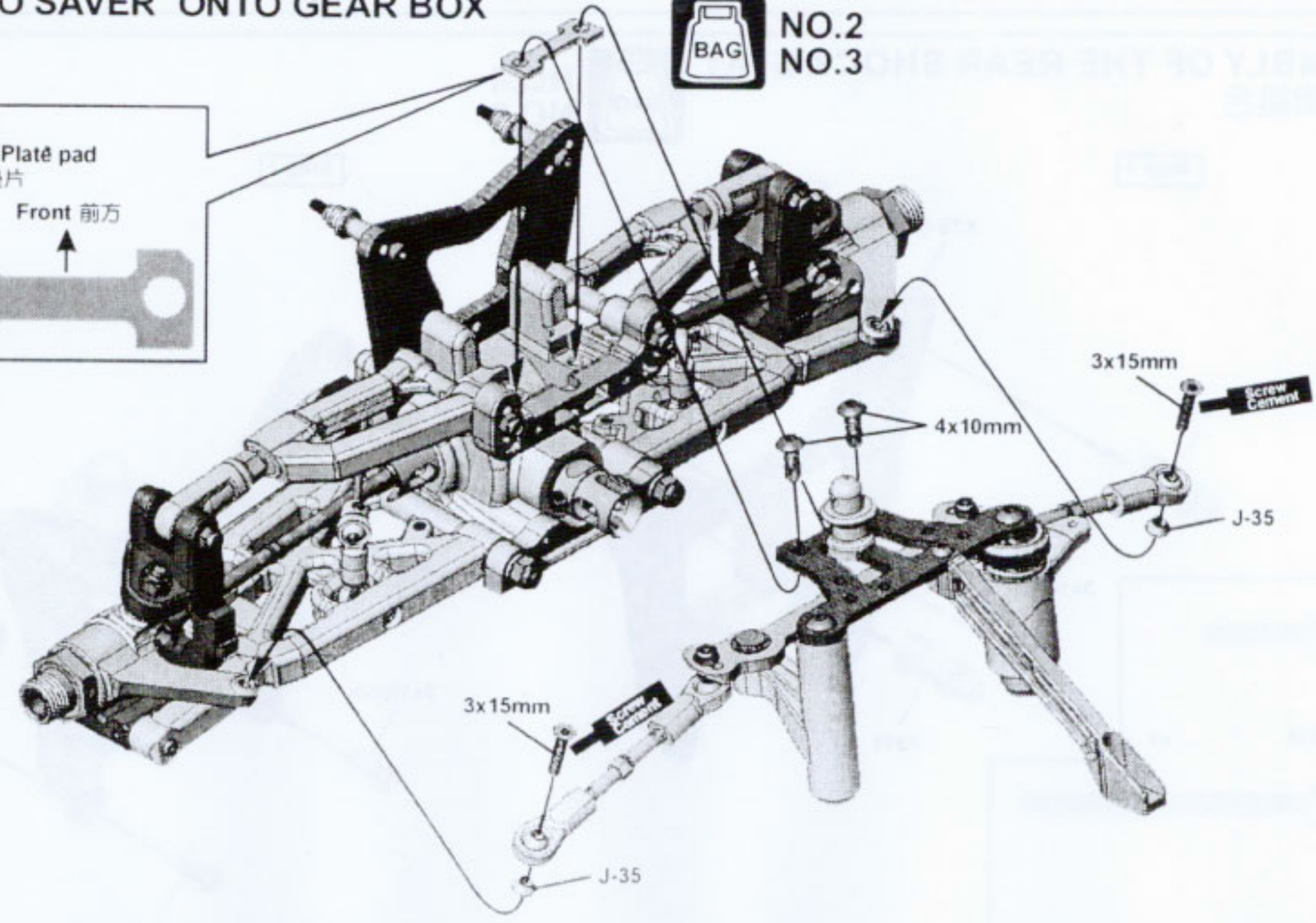
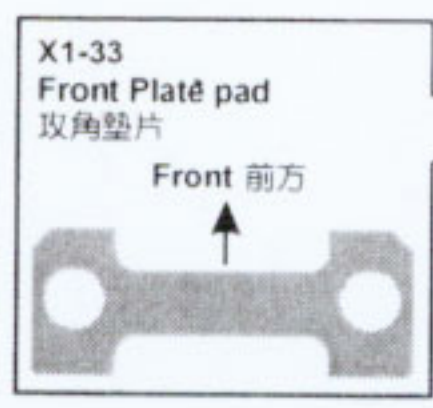


18 ASSEMBLY OF THE SERVO SAVER ONTO GEAR BOX

組合緩衝組至齒輪箱



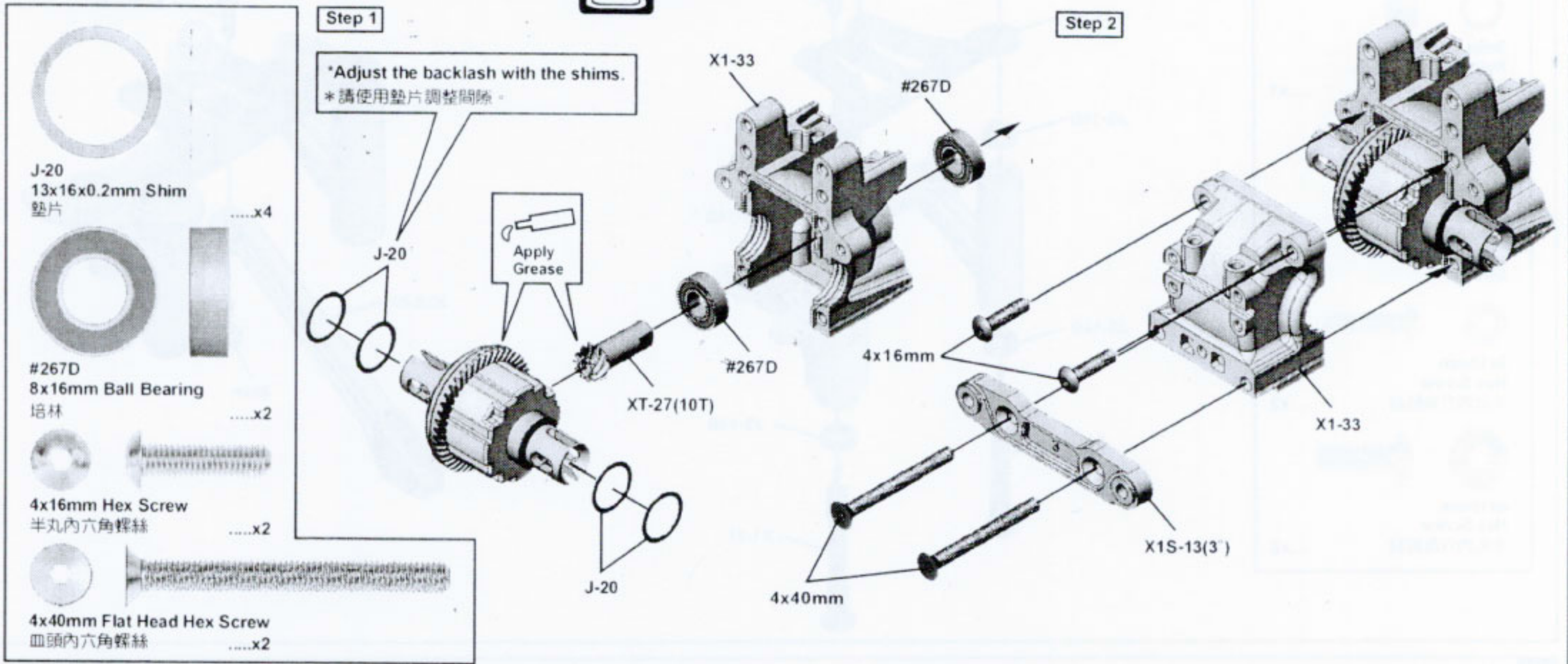
NO.2
NO.3



19 ASSEMBLY OF THE REAR GEAR CASE
後齒輪箱組合



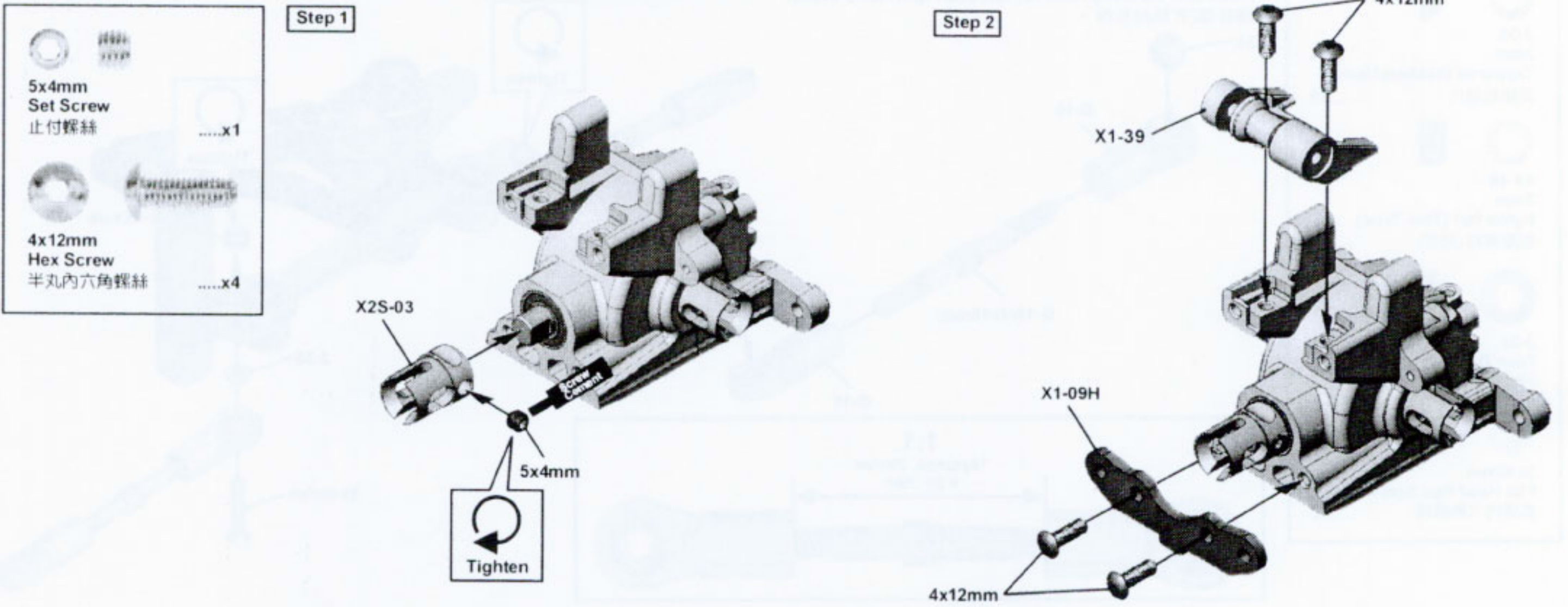
NO.4



20 ASSEMBLY OF THE REAR GEAR CASE
後齒輪箱組合



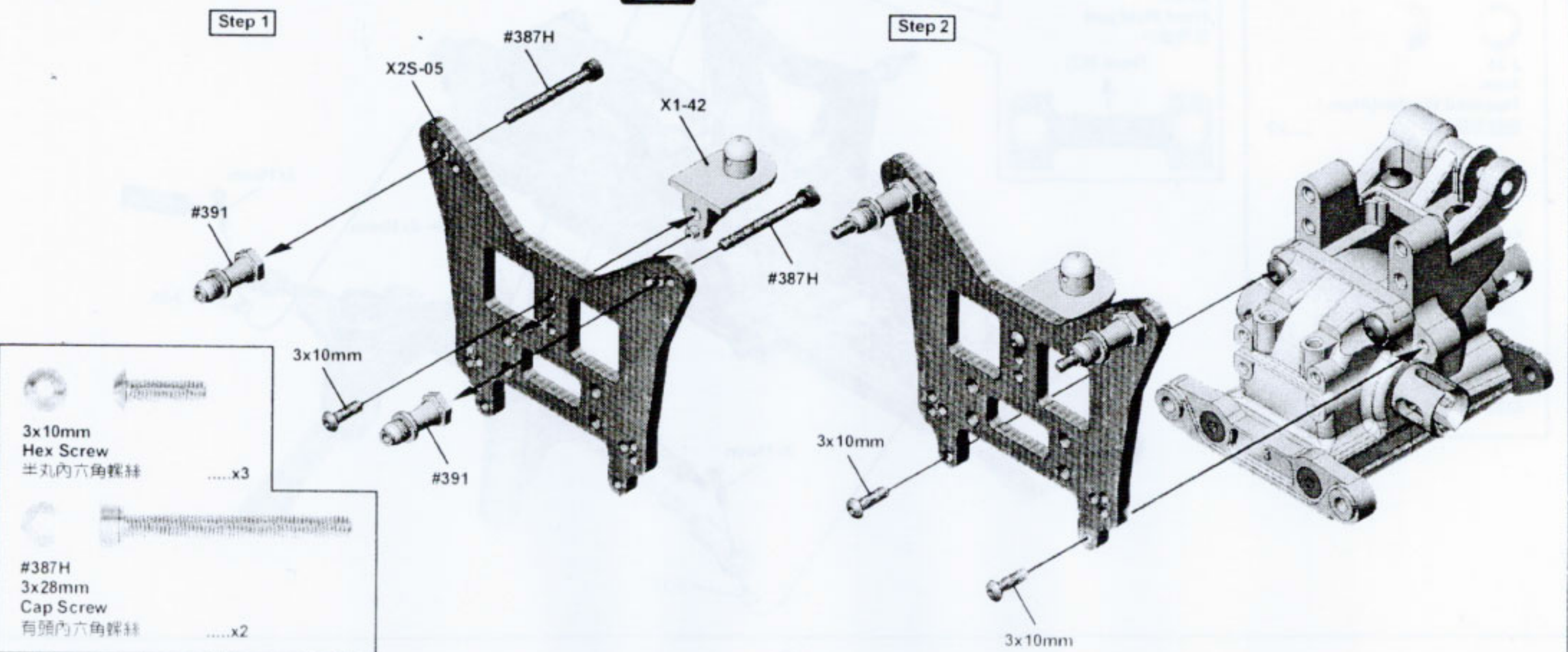
NO.3
NO.4



21 ASSEMBLY OF THE REAR SHOCK STAY
後油壓架組合



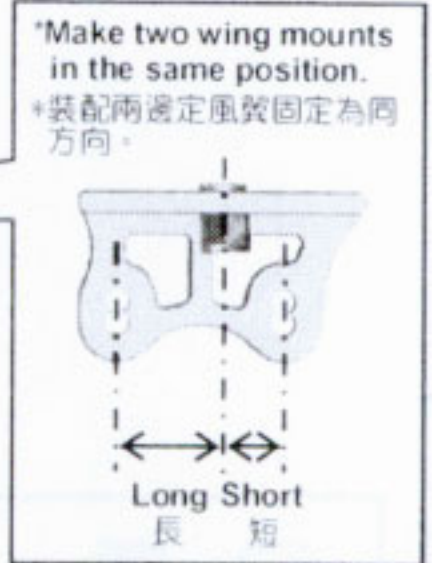
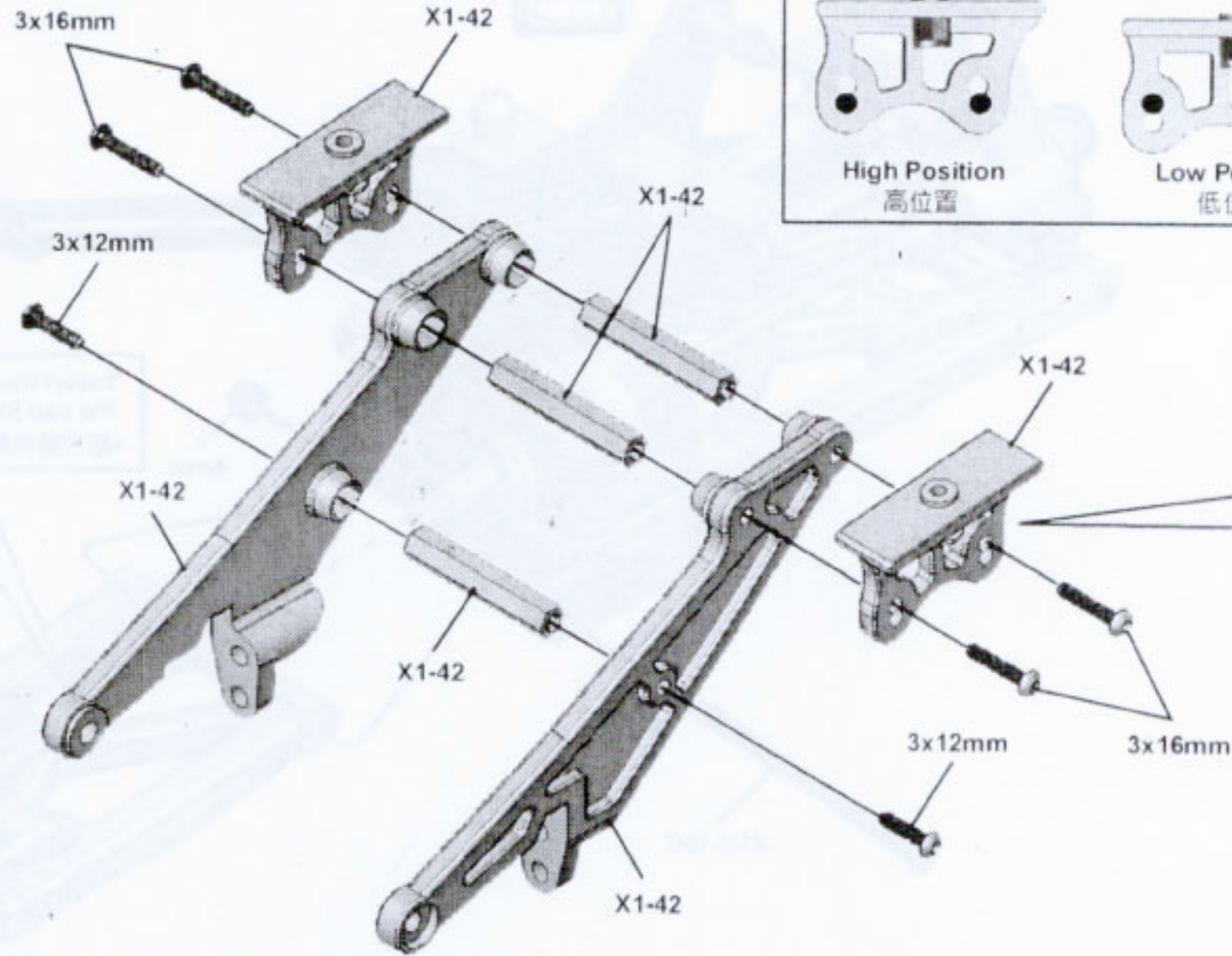
NO.4
NO.9



22 ASSEMBLY OF THE WING STAY 定風翼架組合

BAG NO.4

*The angle of wing mount can be adjusted.
*定風翼角度可以裝配位置不同而會有角度及高低變化。

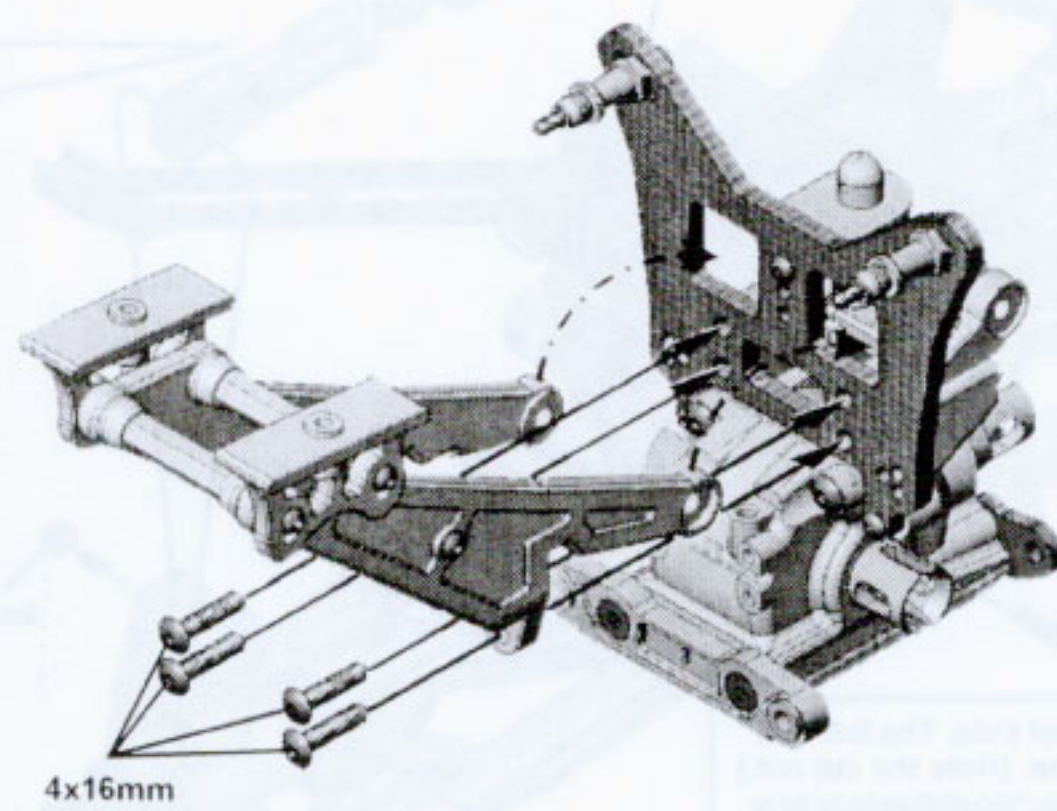


23 ASSEMBLY OF THE WING STAY 定風翼架組合

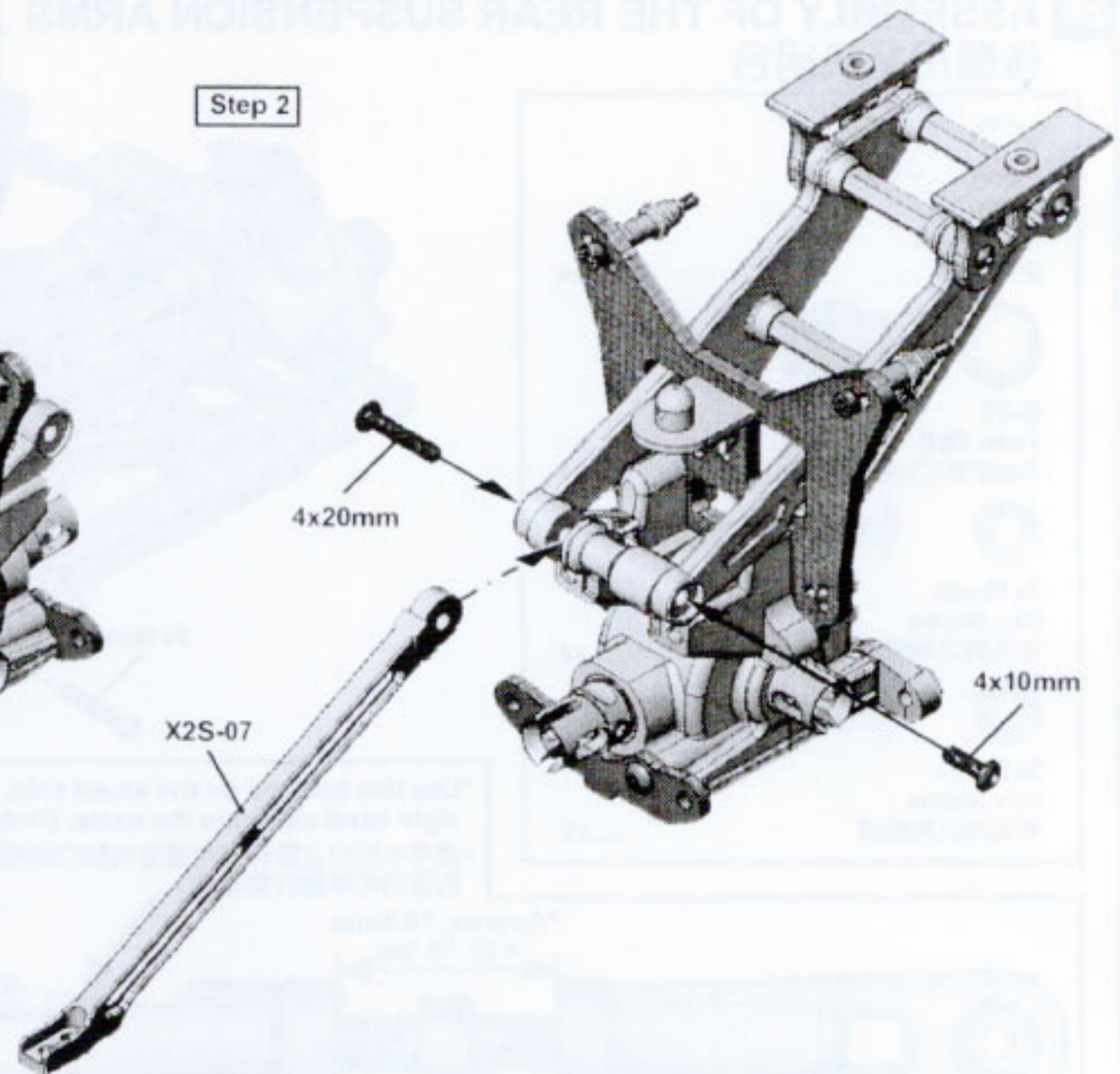
BAG NO.4



Step 1



Step 2



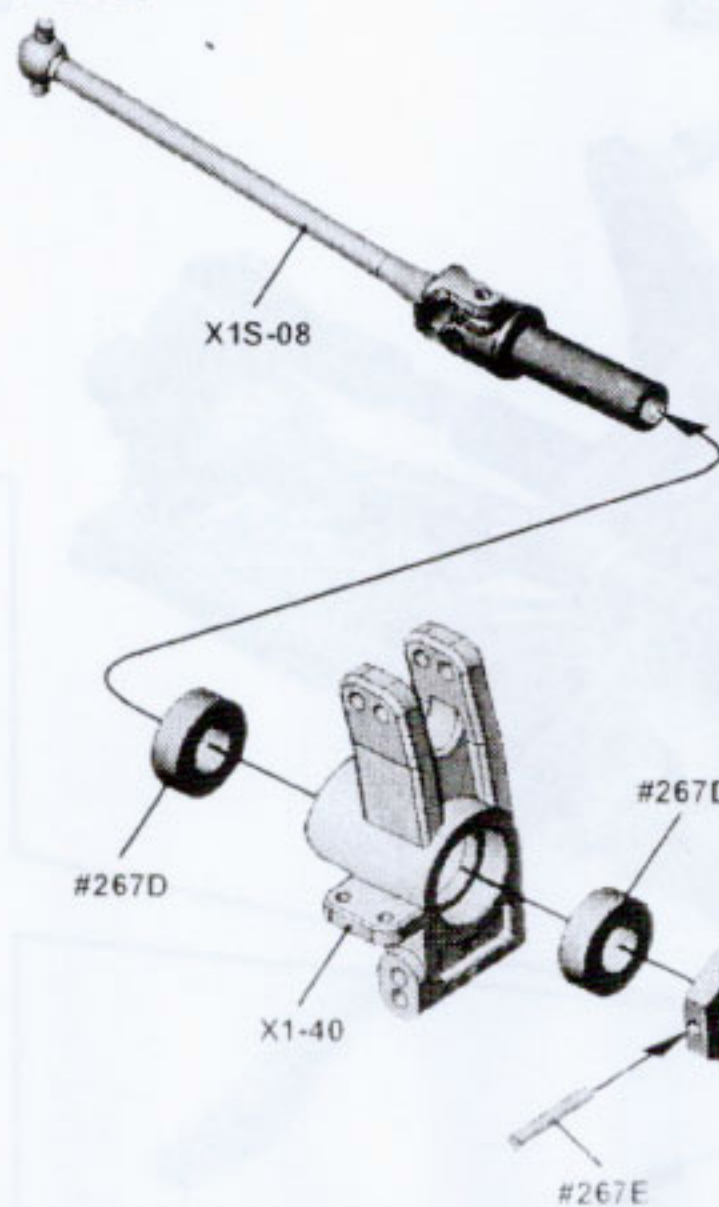
24 ASSEMBLY OF THE REAR WHEEL HUBS 後輪座組合

BAG NO.4

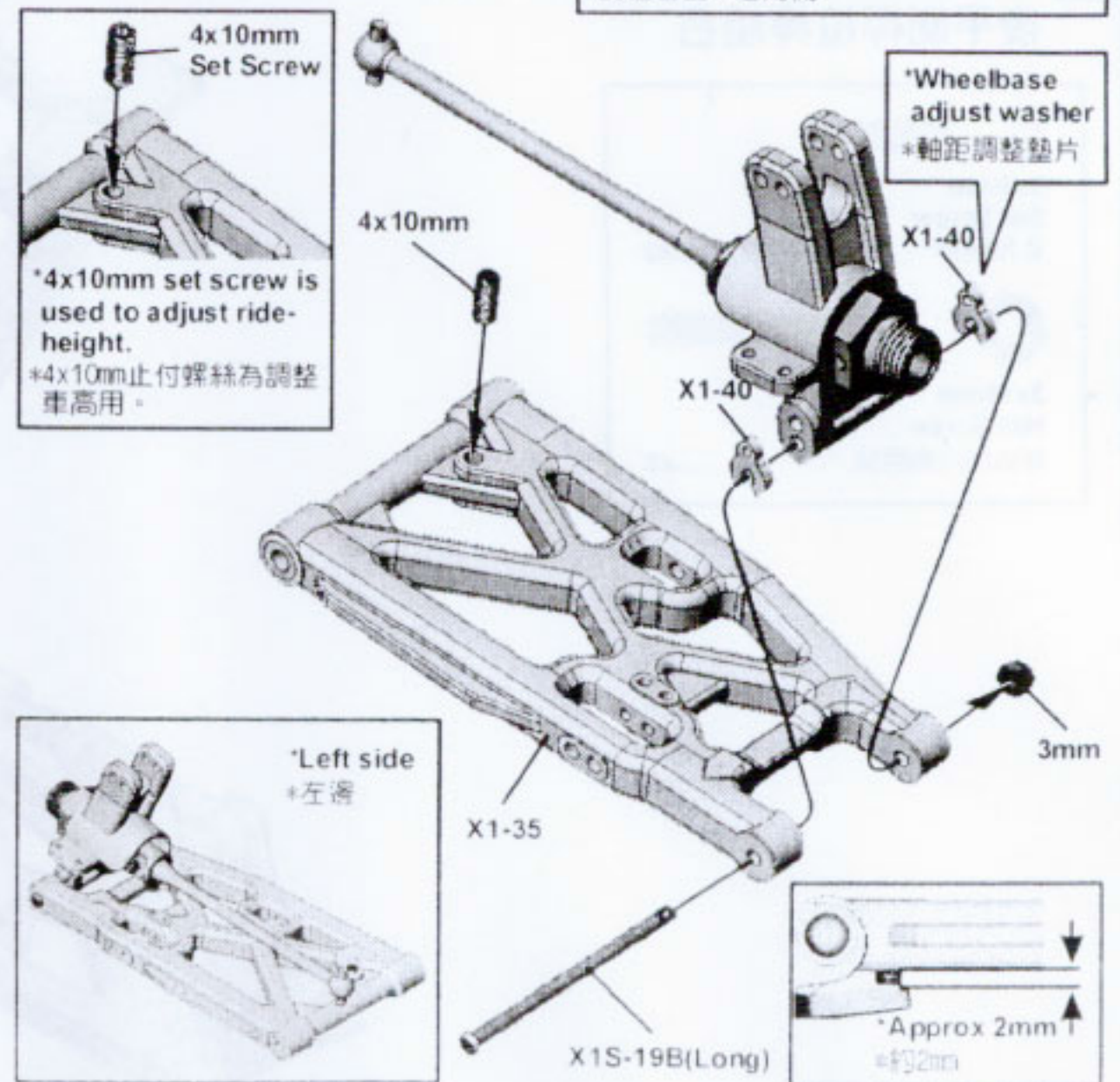
Assemble both right and left sides
請組合左 / 右兩側



Step 1



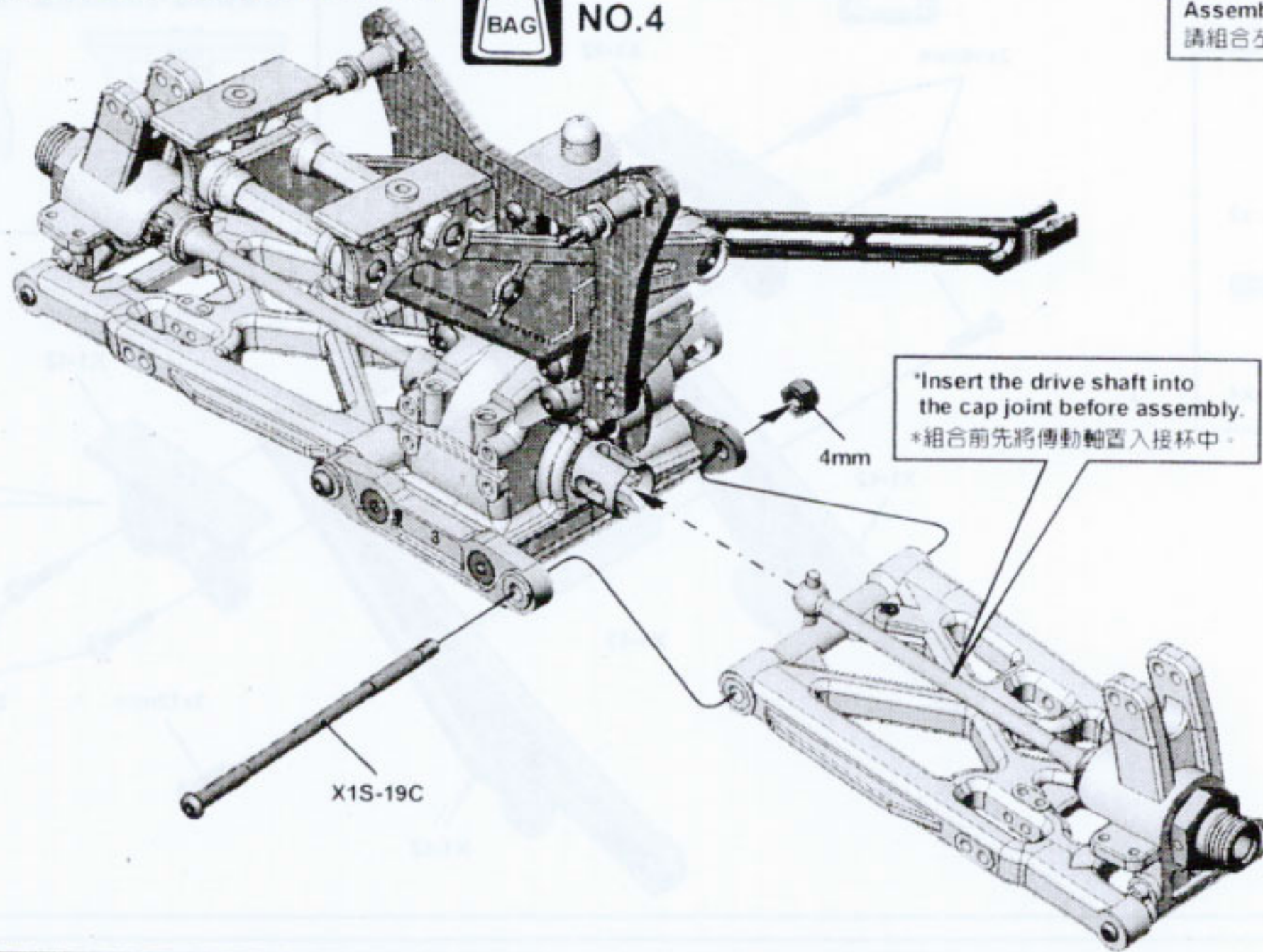
Step 2



25 ASSEMBLY OF THE REAR SUSPENSION ARMS
後懸吊系統組合

BAG NO.4

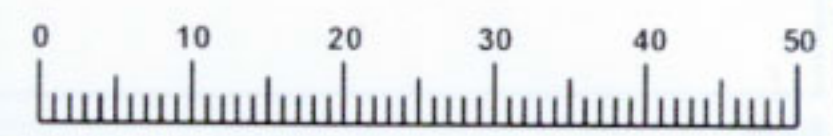
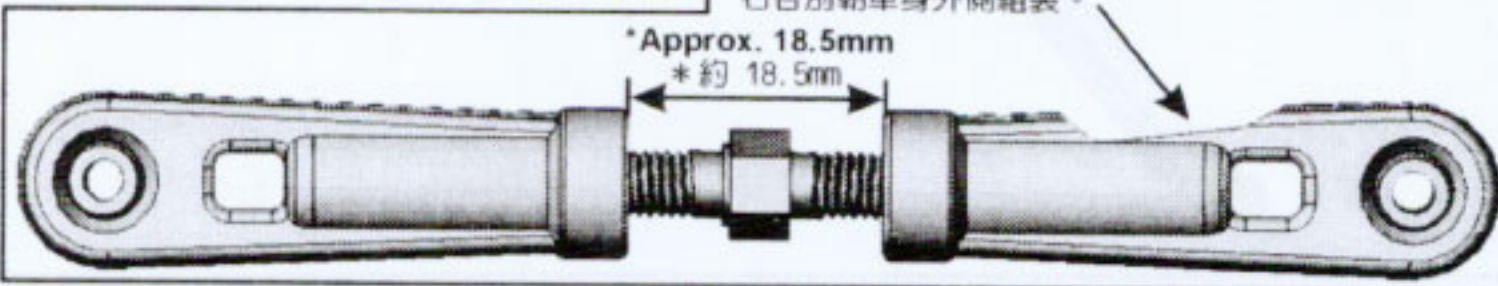
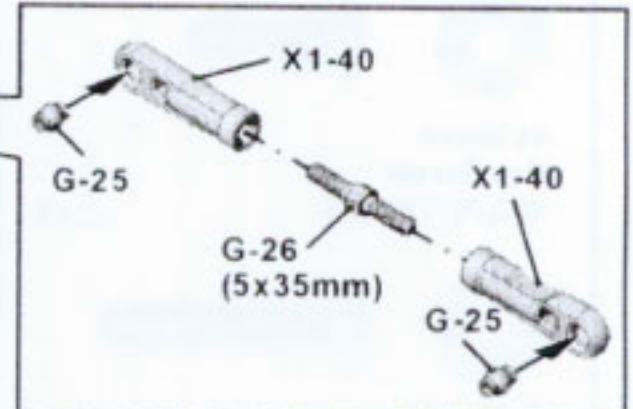
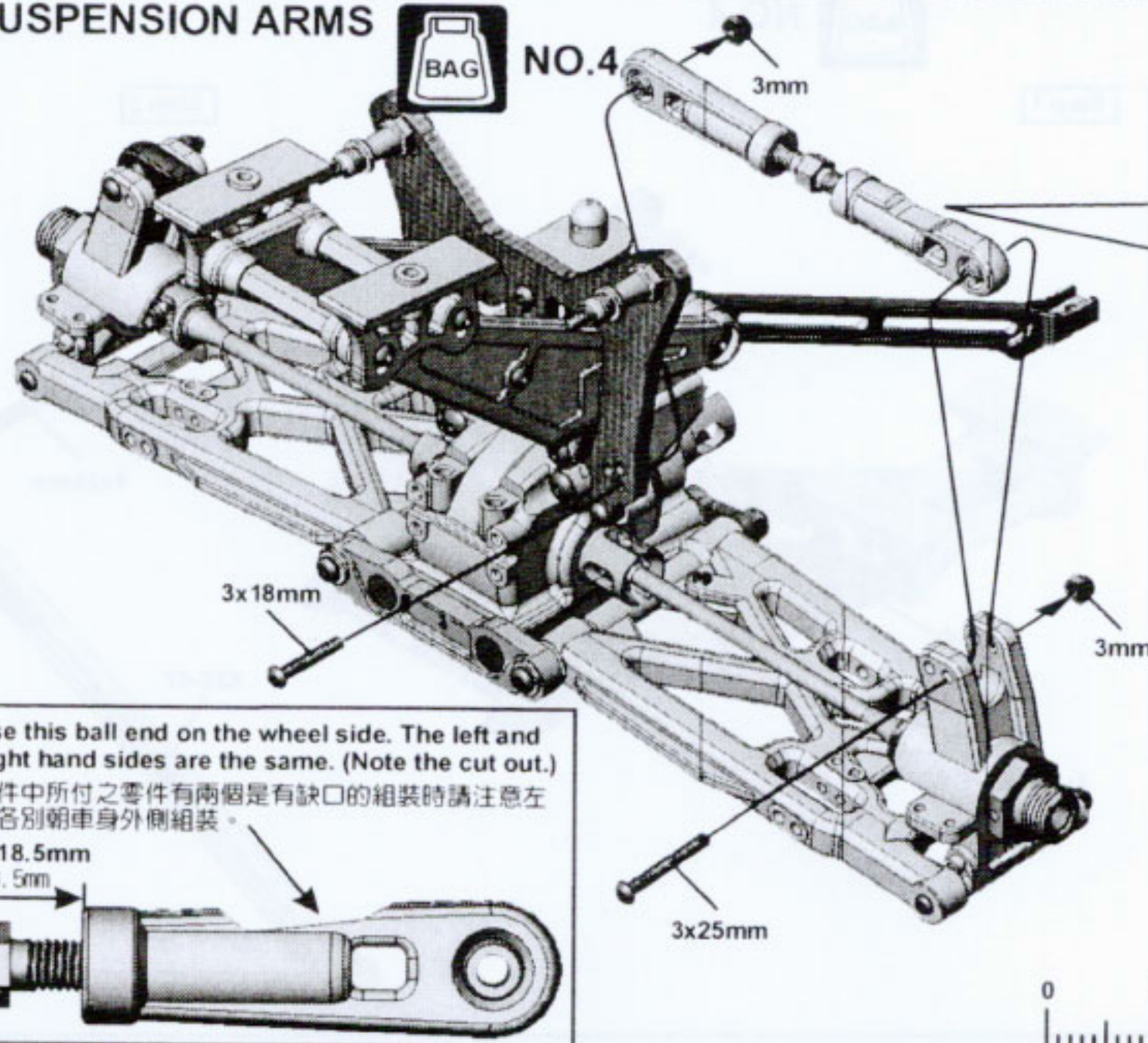
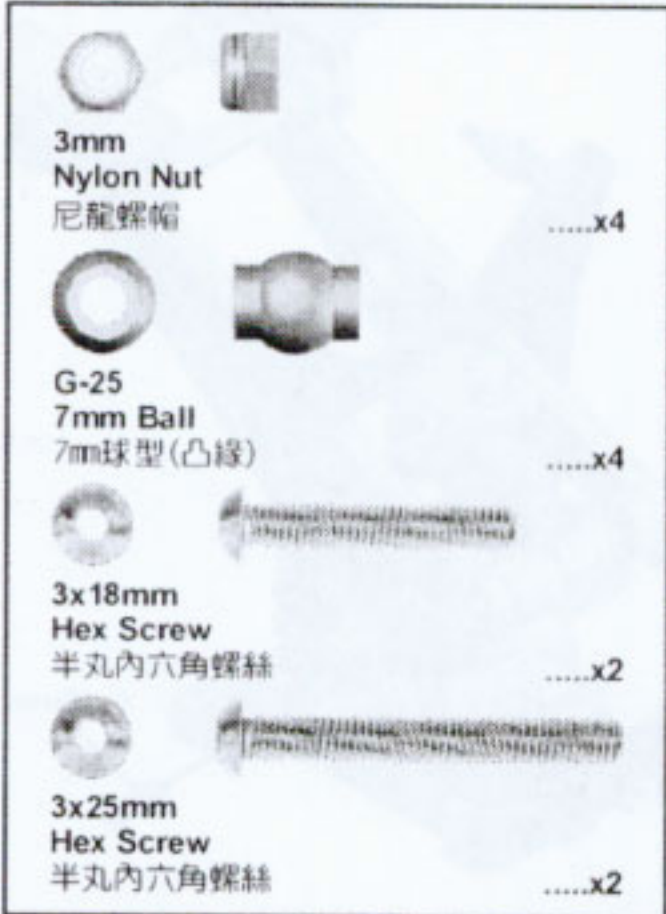
Assemble both right and left sides
請組合左 / 右兩側



26 ASSEMBLY OF THE REAR SUSPENSION ARMS
後懸吊系統組合

BAG NO.4

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



27 ASSEMBLY OF THE REAR STABILIZER RODS
後平衡桿拉桿組合

BAG NO.4

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

