

X1CRT PRO



HIGH PERFORMANCE 1/8 SCALE NITRO POWERED OFF-ROAD TRUGGY

INSTRUCTION MANUAL

組合說明書
(職業版)



R.O.A.R. Unlimited Monster Truck National Champion

ALL HIGH PERFORMANCE PARTS INCLUDED IN X1CRT TRUGGY PRO VERSION

- CNC Machined 7075 long chassis (Hard-Coated).
- CNC Machined 7075 4mm front lower arm holder (Hard-Coated).
- CNC Machined 7075 4mm rear lower arm holder (Hard-Coated).
- CNC Machined 7075 front/rear lower arm block B Type.
- CNC Machined 7075 steering knuckle arm-L&R (Hard-coated).
- CNC Machined 7075 4mm front shock tower (Hard-Coated).
- CNC Machined 7075 4mm rear shock tower (Hard-Coated).
- CNC Machined 7075 rear toe-in plate-2.5 degree (Hard-Coated).
- CNC Machined 7075 center chassis brace (F&R) (Hard-Coated).
- Front lay-down steering servo for a lower CG.
- Long suspension geometry designed specifically to maximize performance.
- Carbon fiber radio tray.
- Carbon fiber front pate.
- Carbon fiber center diff. mount plate.
- Servo saver connecting plate (Hard-Coated).
- Light weight 4mm cross pin axle for differential the gears.
- Front-kick up angle adjustable from 20 to 22 degrees.
- New design threaded type 13mm big bore shocks with 3.5mm shaft (F/R).
- New 3mm thick fiber glass brake discs (F/R).
- Servo saver alum. tube (Hard-Coated)
- Spring steel universal Joint (Rear).
- Spring steel universal Joint (Center/ F&R).
- Spring steel screw type hinge pins.
- Hard anodized aluminium fuel filter.
- Adjustable ackerman steering geometry design.
- 2.5 degree 4mm rear anti-squat plate.
- Front and rear camber using strong steel turnbuckles.
- Front and Rear camber can be fine tuned to suit your track conditions.
- 2.5mm anti-roll bar in front and 2.8mm in rear,
- Low profile engine mounts (Hard-Coated)
- Small 35mm 3 pin racing flywheel.
- Light-weight aluminium clutch shoes (Blue Anodized)
- New design light-weight dish wheels with 17mm hex.
- Secure transponder mount system.
- New design fuzzy monster tires.(Traxxas Size)
- Drive gear ratio is optimized for .21 and .28 size race engines.
- 150CC fuel tank for longer run time.
- High flow 2 stage air filter for maximum engine protection and increased engine performance.
- PI-801 053 Polished 3 chamber In-Line pipe set.

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 IF SPECIFIED IN THIS KIT.
- PAINT IS NOT INCLUDED.
- SOME KIT TYPES MAY OR MAY NOT INCLUDE .21 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.

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

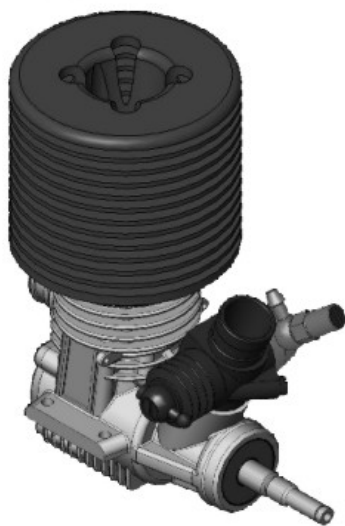
FAX: 886 2-2694-1632

www.hongnor.com

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 VERY SLIGHTLY FROM KIT. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

THINGS NEED BESIDES THE KIT

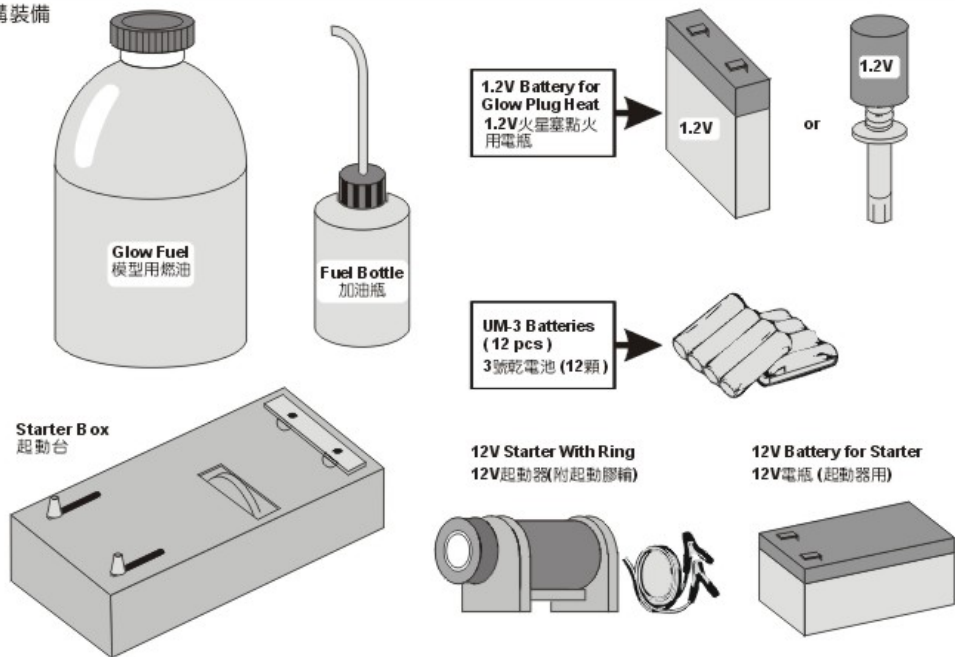
Note: The engine may not include in kit.
引擎可能不包含在套件內



REAR EXHAUST 21~28 CLASS ENGINE

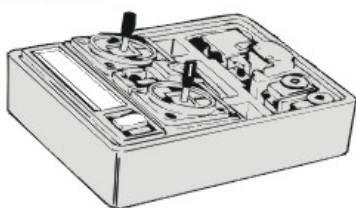
有關引擎使用及調整方式，請參照引擎工廠之手冊。

另購裝備



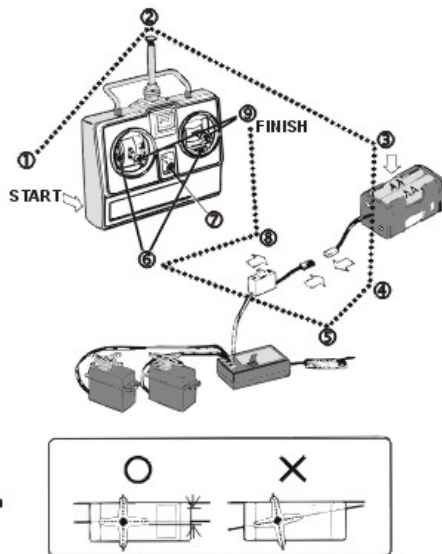
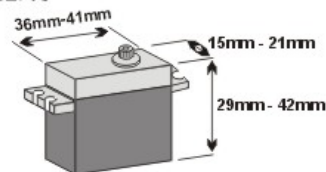
RADIO CONTROL UNIT 另購裝備

2動作遙控器組



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

SUITABLE SERVO SIZE
伺服機適合尺寸



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

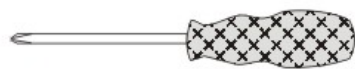
SEQUENCE TO SET NEUTRAL

遙控在組合前必要設立中立點

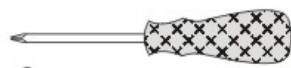
- | | |
|---|--------------------------------------|
| ① Install UM-3 batteries. | 裝入3號乾電池(發射機用) |
| ② Extend the antenna.(Transmitter) | 拉出天線 |
| ③ Install batteries. | 裝入3號乾電池盒(接收機用) |
| ④ After installing the battery, connect the battery box. | 連接電池盒至開關 |
| ⑤ Extend the antenna. (Receiver) | 拉長接收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

TOOLS NOT INCLUDED IN KIT

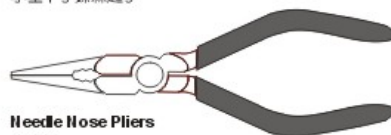
需使用之工具



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



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



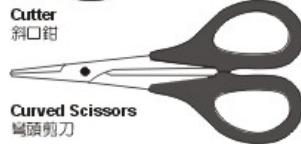
Needle Nose Pliers
尖嘴鉗



Knife
美工刀



Cutter
斜口鉗



Curved Scissors
彎頭剪刀



Precision Caliper
游標卡尺



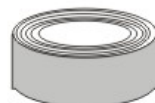
Brush
毛刷



Cross Wrench
六角起子



Instant Cement
3秒瞬間膠水



Masking Tape
紙膠帶



Paints
模型用油漆

INCLUDED WITH KIT

套件內裝備



Diff. Oil
差速器油



Shock Oil
避震器油



10000



5000



1.5mm Allen Wrench
1.5mm 內六角板手



2mm Allen Wrench
2mm 內六角板手

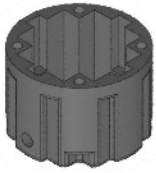


2.5mm Allen Wrench
2.5mm 內六角板手



4mm/5mm Allen Wrench
4mm/5mm 六角板手

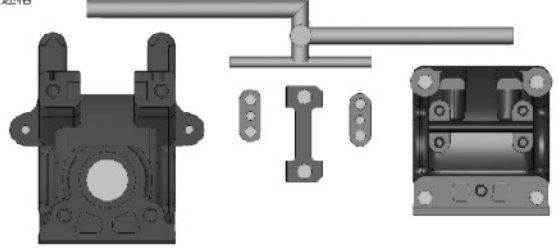
X1-38
DIFF. CASE
差速器殼



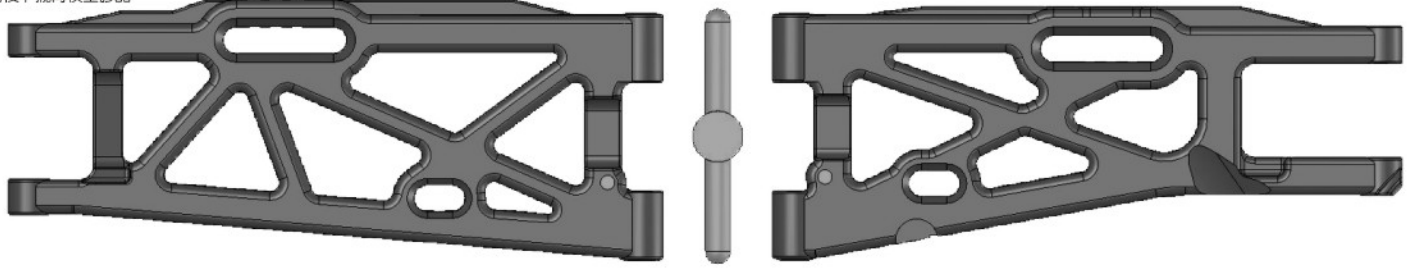
X1-36
FRONT C HUB
C型座



X1-33
FRONT AND REAR GEAR BOX
差速箱



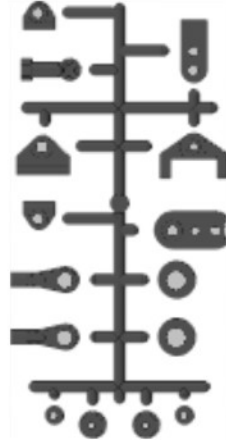
XT-18
FRONT AND REAR LOWER ARM
前後下擺臂模塑品



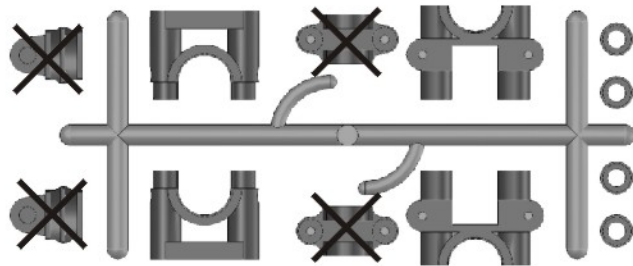
XT-17
FRONT UPPER ARM
前上擺臂模塑品



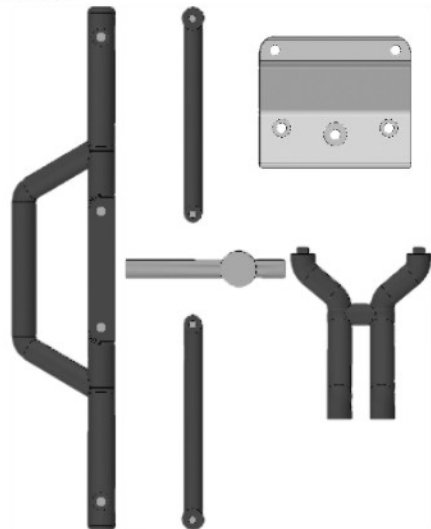
A-80B
Throttle Linkage Plastic
油門拉桿塑膠品



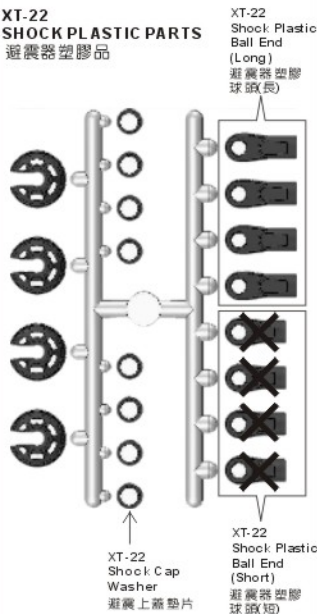
J-36
CENTER DIFF. MOUNT PLASTIC PARTS
中差座塑膠品



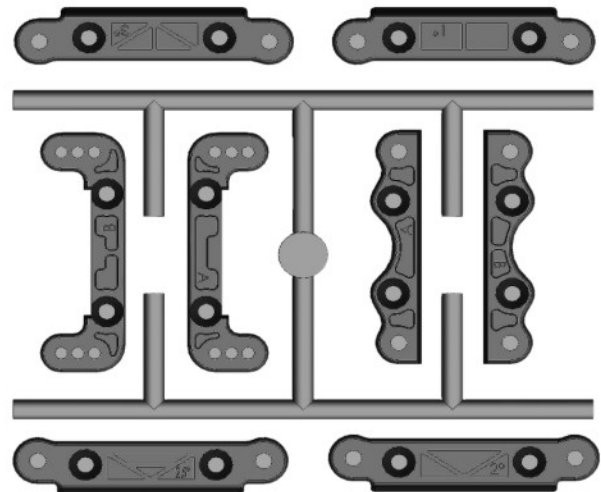
XT-19
BUMPER
防撞板塑膠品



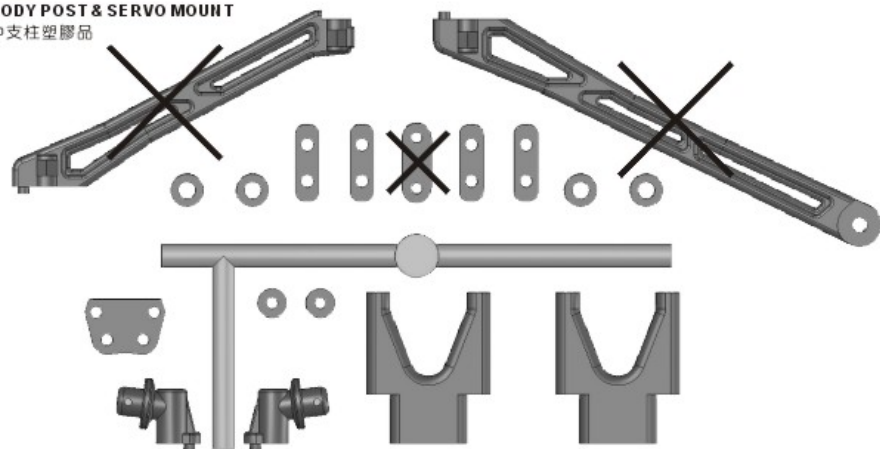
XT-22
SHOCK PLASTIC PARTS
避震器塑膠品



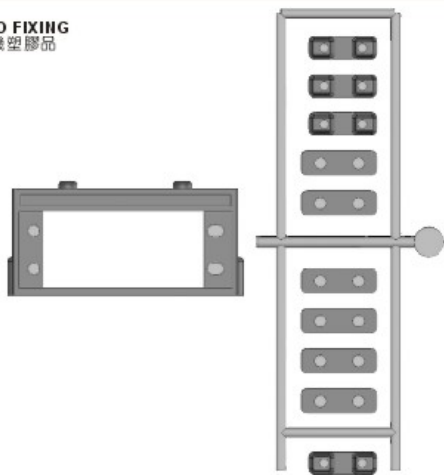
X1-34
ARM HOLDER
擺臂固定座塑膠品



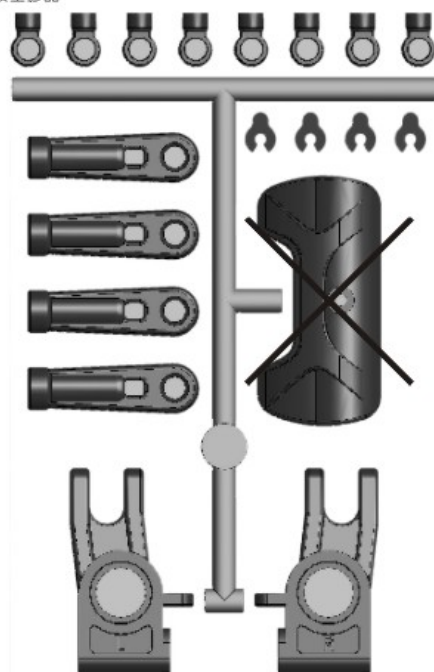
X1-20
BODY POST & SERVO MOUNT
 中支柱塑膠品



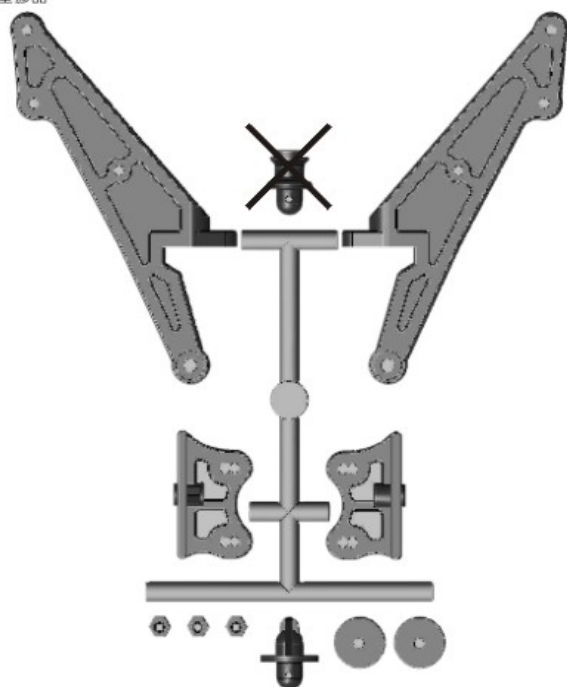
C-27
SERVO FIXING
 伺服機塑膠品



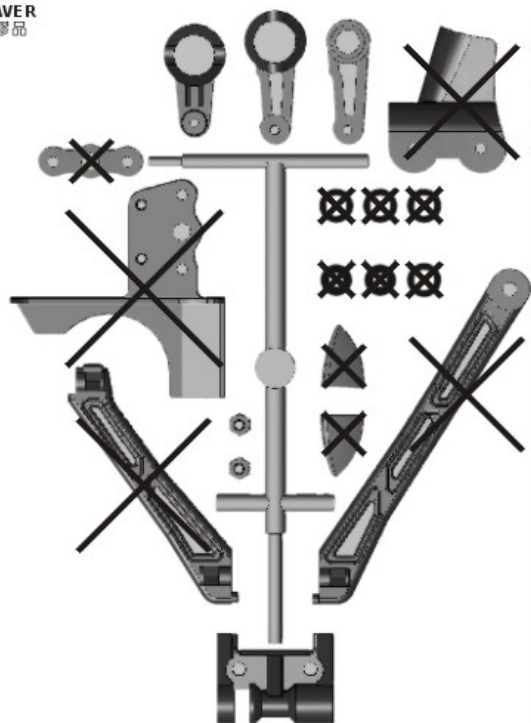
X1-40
REAR UPPER RIGHT/FRONT BUMPER
 後上拉桿及防撞板塑膠品



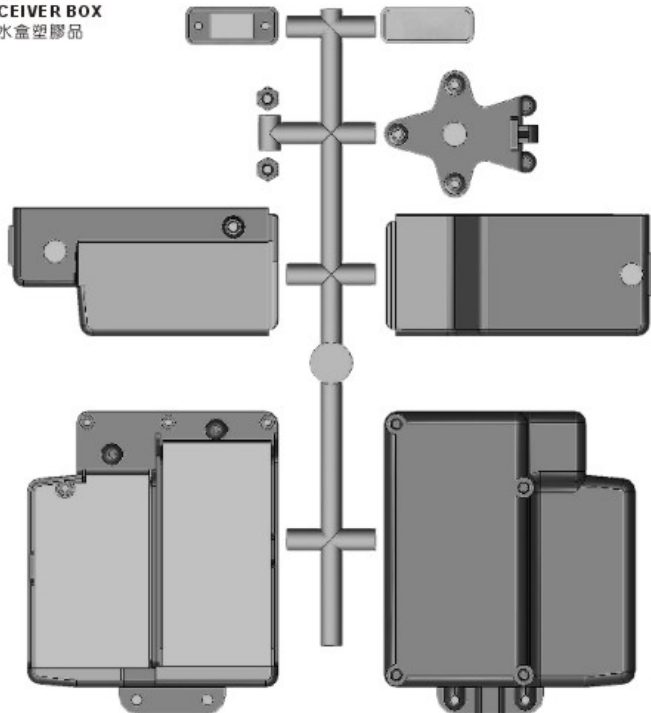
X1-42
WING STAY
 定風翼塑膠品



X1-39
SERVO SAVER
 緩衝組塑膠品



X1-41
RECEIVER BOX
 防水盒塑膠品



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，由於此模型車的時速超過40-50公里，如果不小心使用，可能會傷及他人。

1. 哪兒是適合操作的場地呢？

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

2. 燃油

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

3. 第一次發動引擎

注意！
在您發動引擎前請先確認以下幾點：

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

4. 磨合引擎

- ◎閱讀引擎製造商說明書。
- 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!

**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。



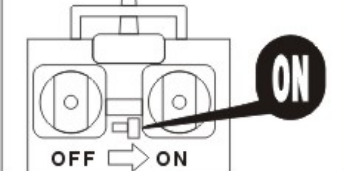
Fully extend transmitter antenna.

把遙控器上的天線完全伸展。



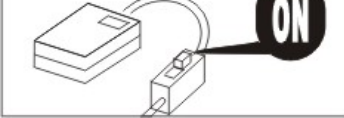
Switch on transmitter.

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。



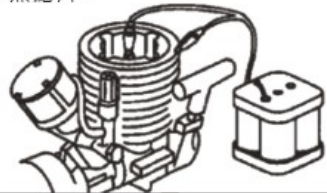
To prime the engine with fuel, press down the primer button.

首先，裝填引擎燃料，再按下進油幫浦（如果有此裝備）。



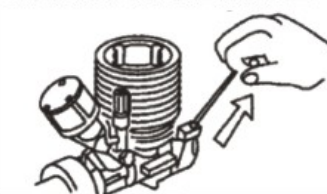
Attach one clip to the glow plug's end and the other clip to one of the cylinder cooling fins.

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。



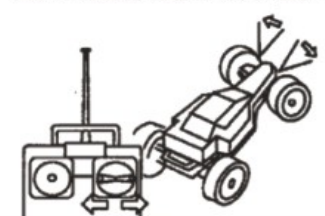
Remove the clips from the engine. 移去起動火星塞電夾。



**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**

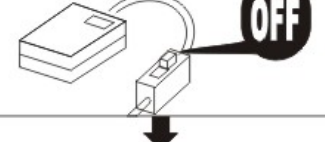
By pushing with your fingers the air cleaner, interrupt the engine.

用手指壓下空氣濾清器，可以中斷引擎。



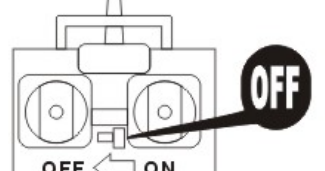
Switch off receiver.

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！



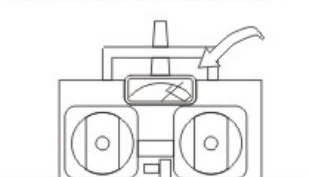
If model does not operate correctly stop it and find the cause.

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。



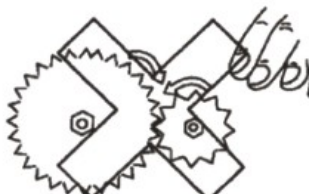
After each run, the model is hot. Beware of getting burned.

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。



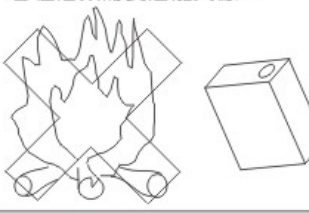
Keep hands and tools away from moving parts.

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. This is very dangerous to life!!

各種油類需要遠離火源。

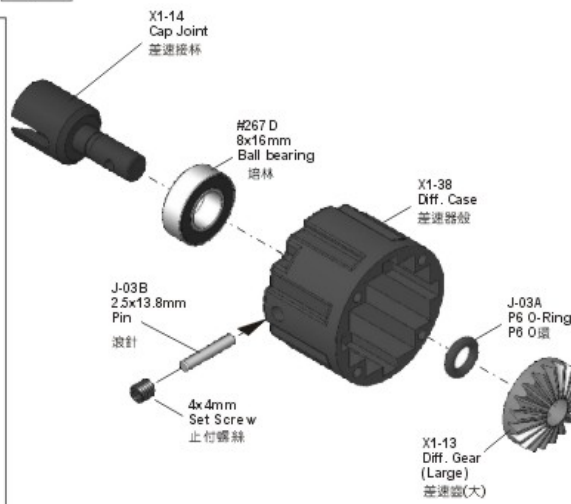
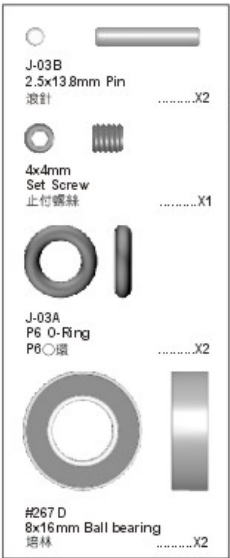


1 ASSEMBLY OF THE FRONT AND REAR DIFF.

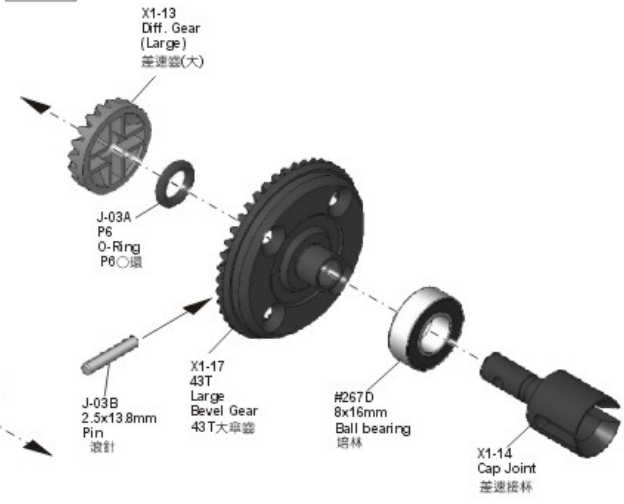
前後差速齒輪組合

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

Step 1



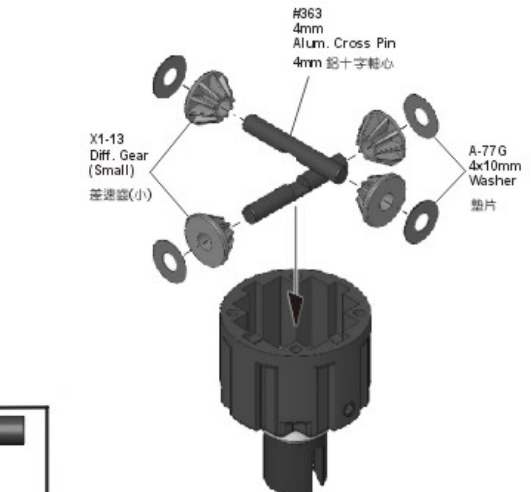
Step 2



2 ASSEMBLY OF THE FRONT AND REAR DIFF.

前後差速齒輪組合

Step 1



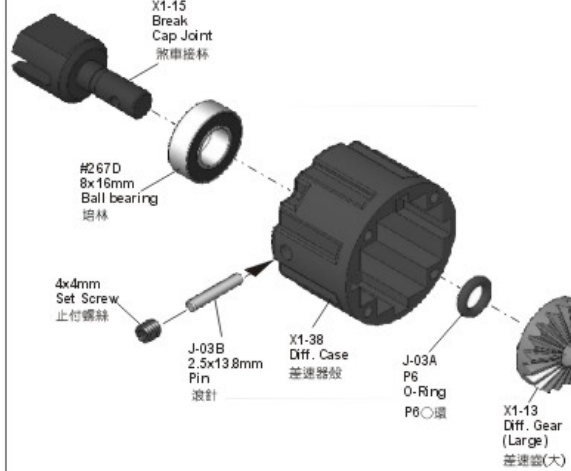
Step 2



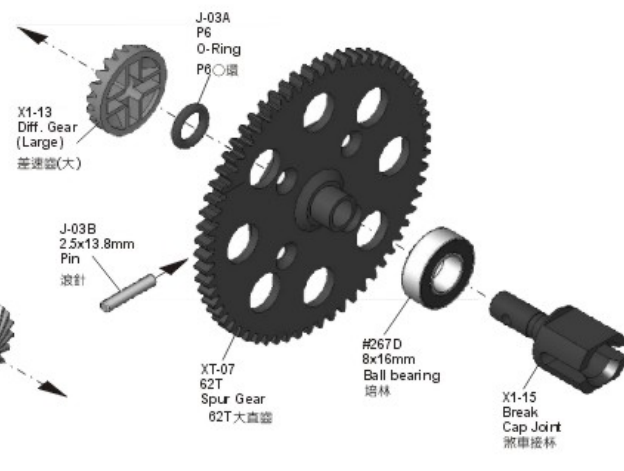
3 ASSEMBLY OF THE CENTER DIFF.

中央差速齒輪組合

Step 1

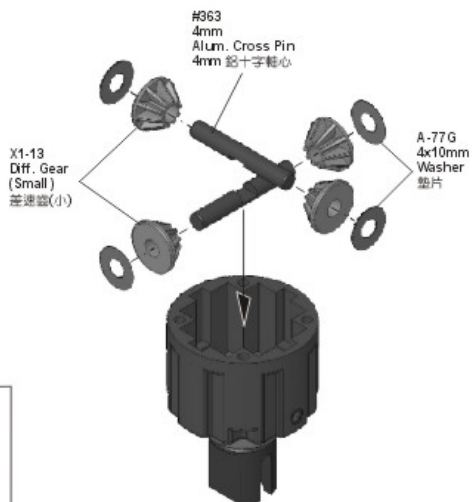
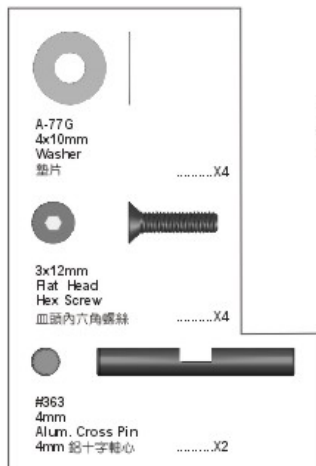


Step 2

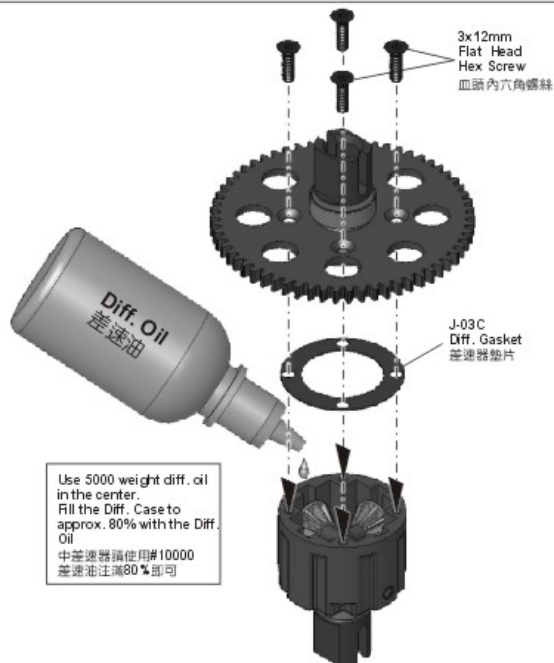


4 ASSEMBLY OF THE CENTER DIFF. 中央差速齒輪組合

Step 1

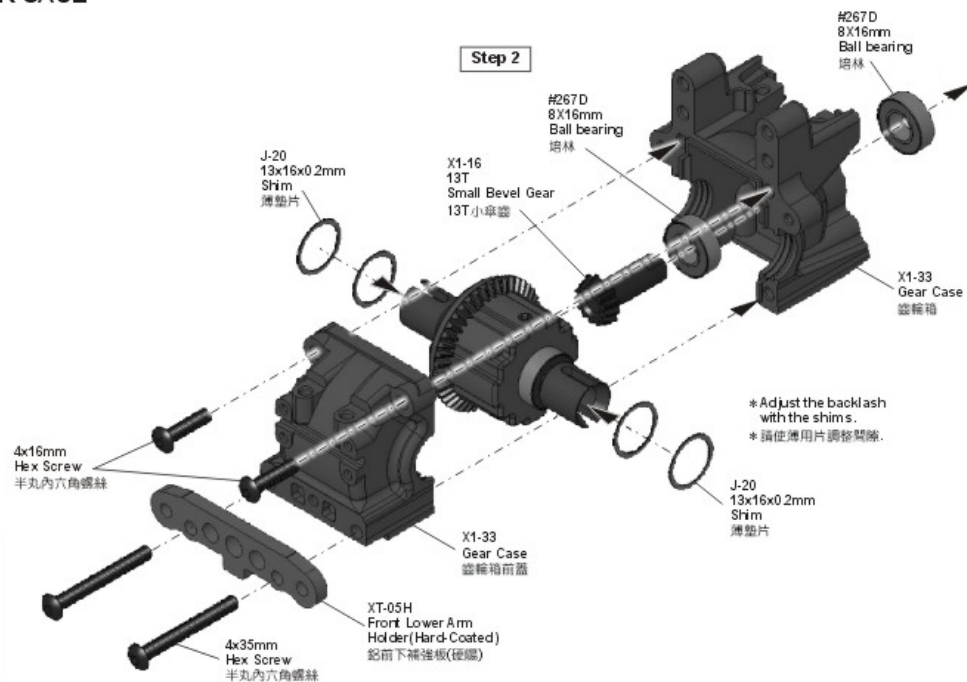
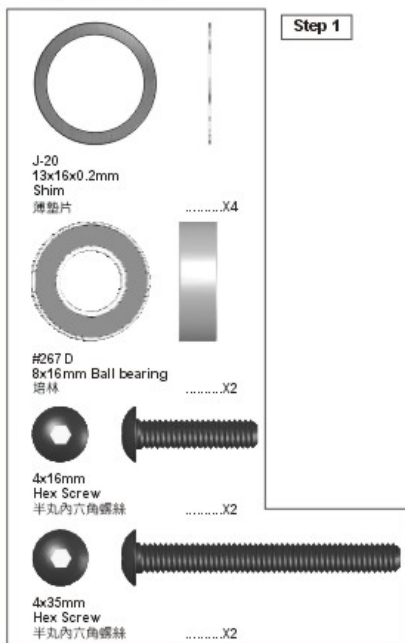


Step 2

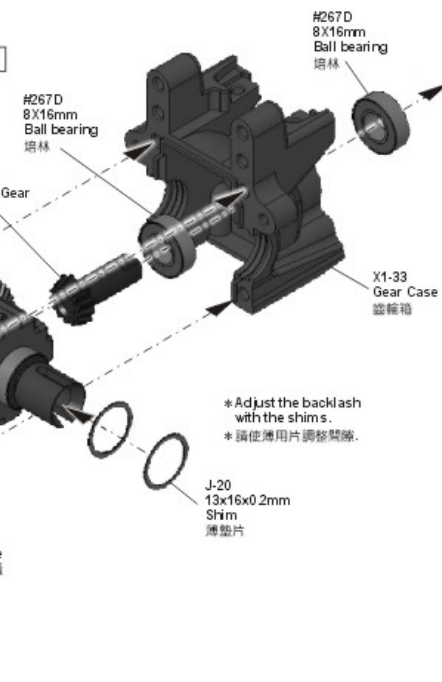


5 ASSEMBLY OF THE FRONT GEAR CASE 前齒輪箱組合

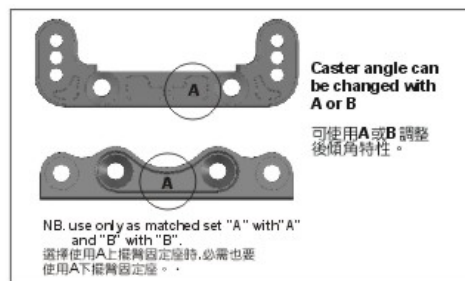
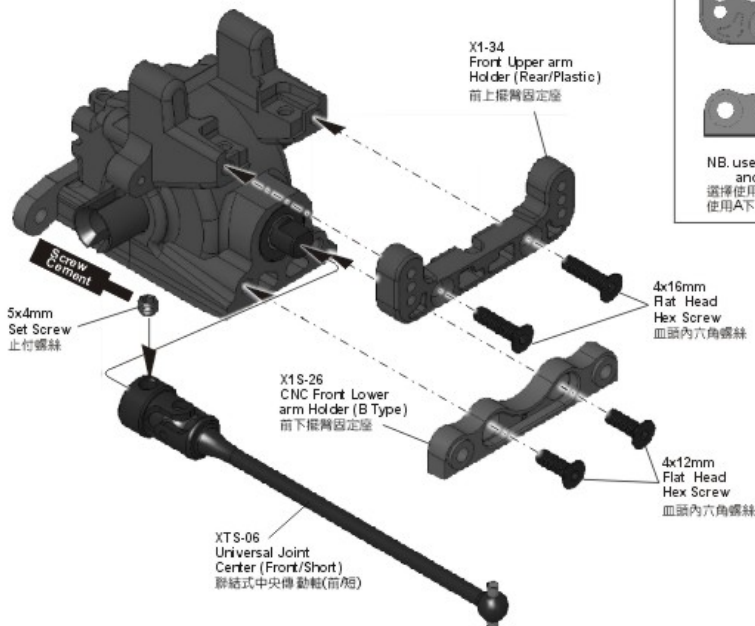
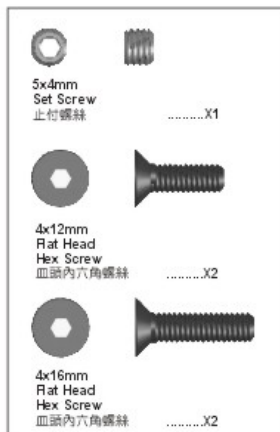
Step 1



Step 2



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

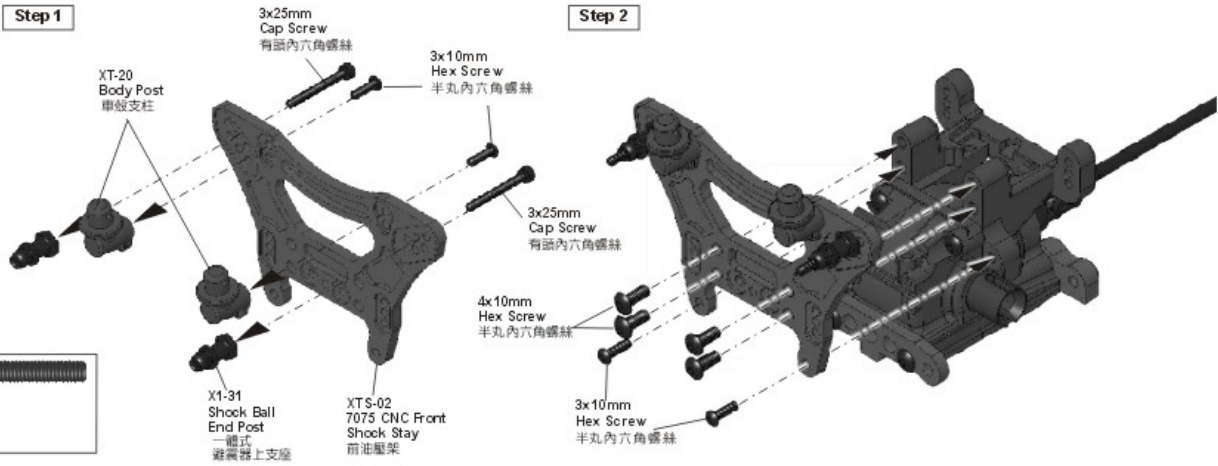
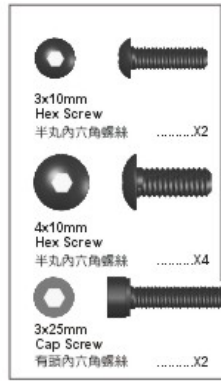


	Steering Characteristics 轉向特性
(A) Caster (High/22 Degree) 後傾角 (大/22度)	Steering response becomes milder. 轉向反應較為中性
(B) Caster (Low/20 Degree) 後傾角 (小/20度)	Steering response becomes quicker. 轉向反應較為快速

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

Step 1

Step 2



8 ASSEMBLY OF THE KNUCKLE ARMS 轉向座組合

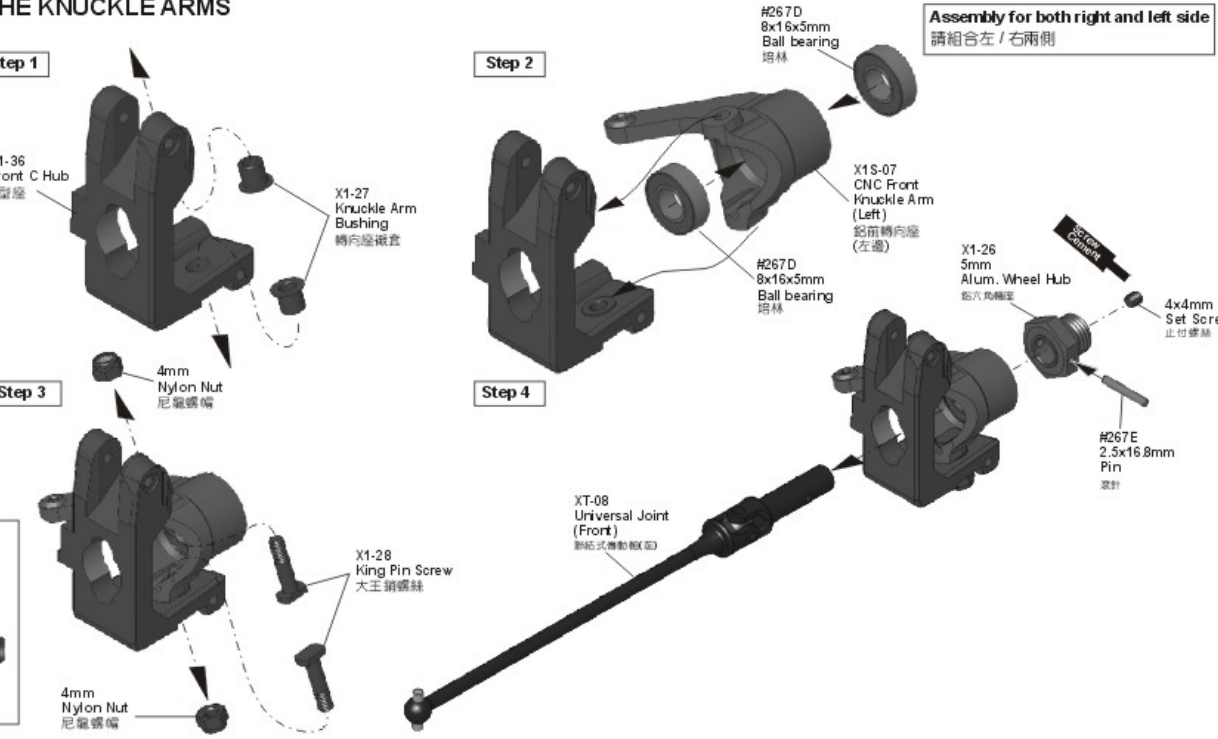
Step 1

Step 2



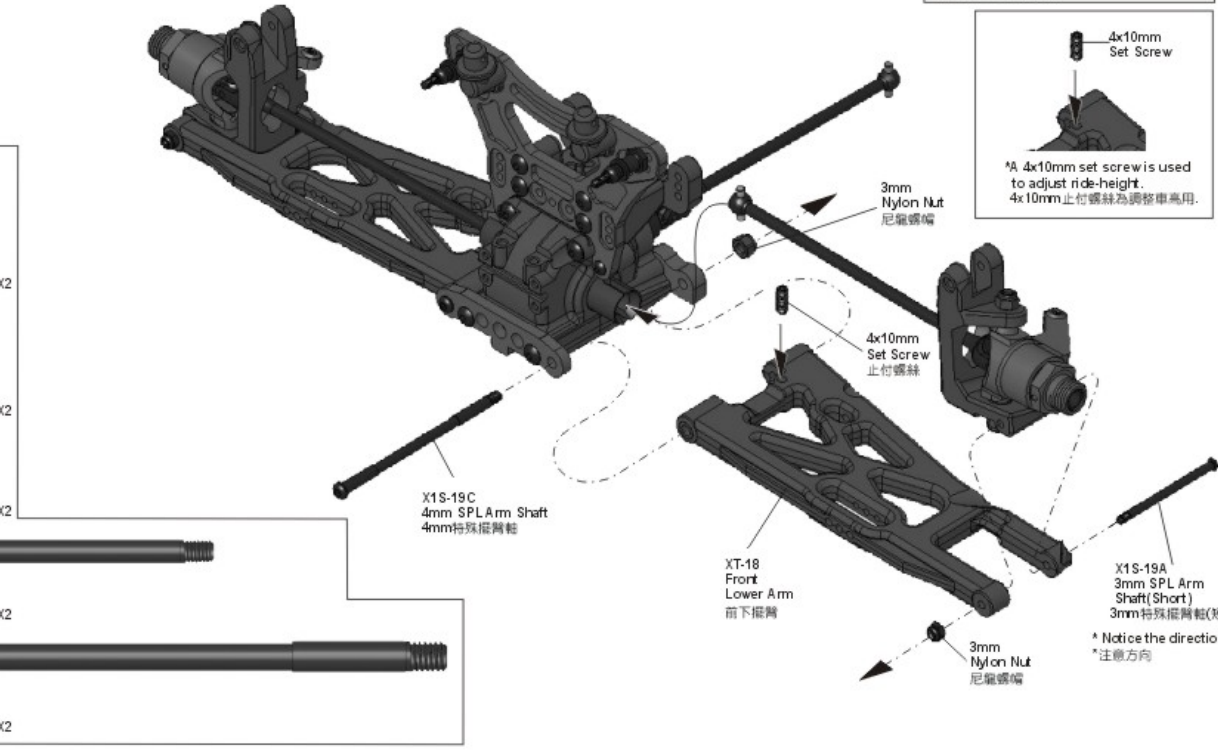
Step 3

Step 4



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

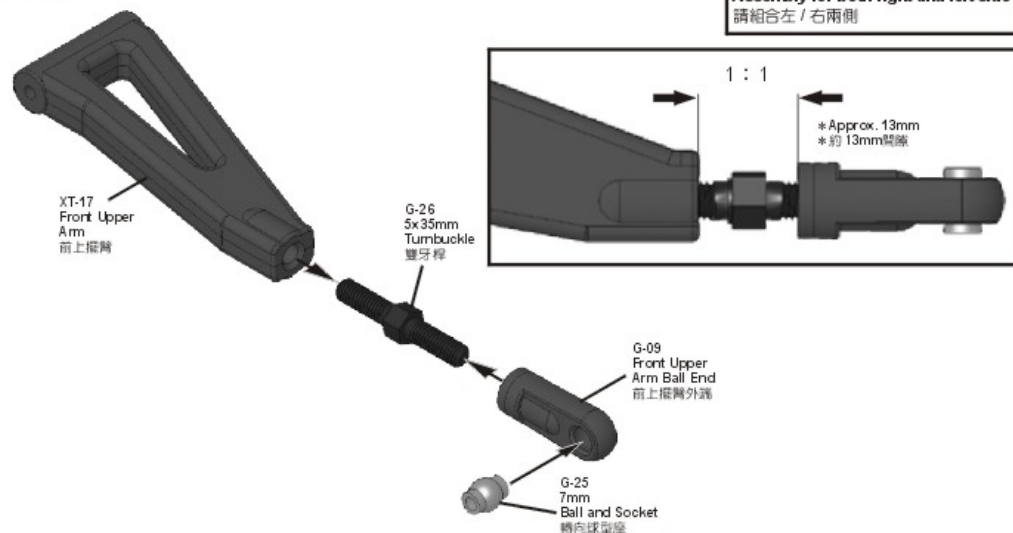
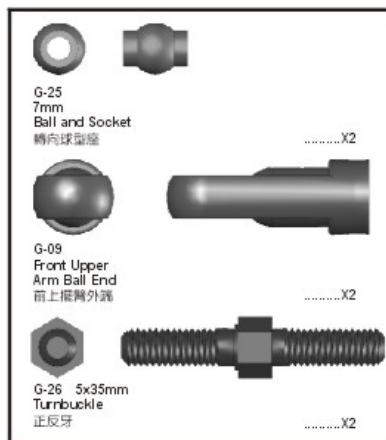
Assembly for both right and left side
請組合左/右兩側



10 ASSEMBLY OF THE FRONT UPPER ARMS

前上擺臂組合

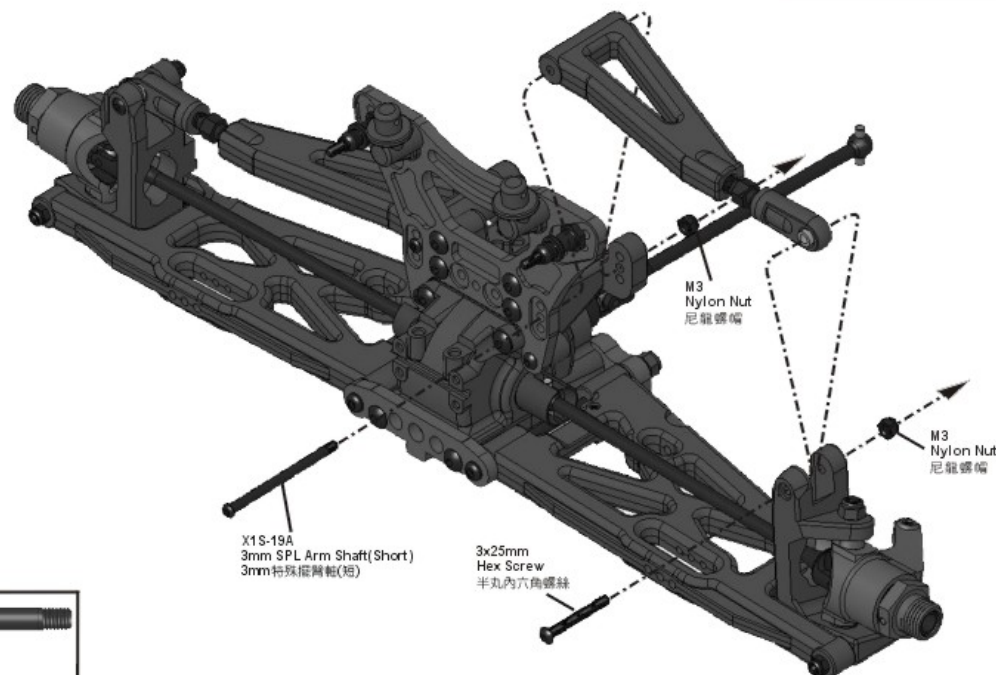
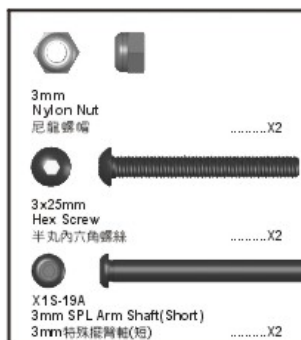
Assembly for both right and left side
請組合左 / 右兩側



11 ASSEMBLY OF THE FRONT SUSPENSION ARMS

前懸吊系統組合

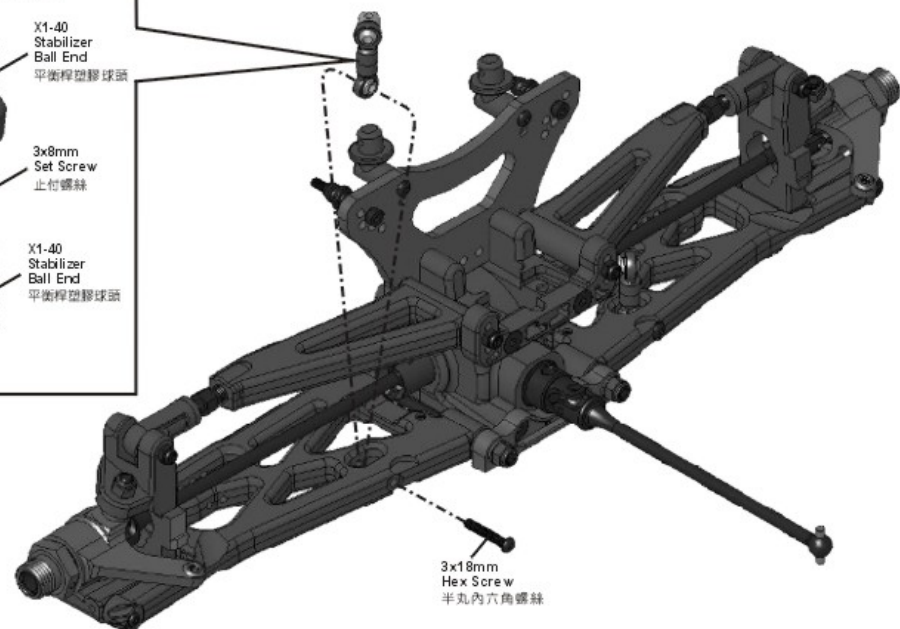
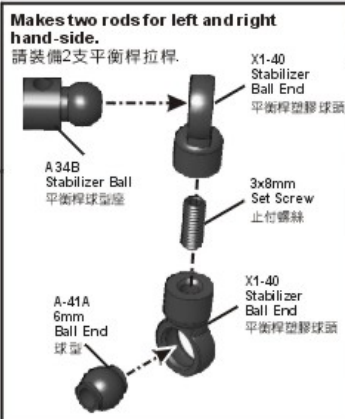
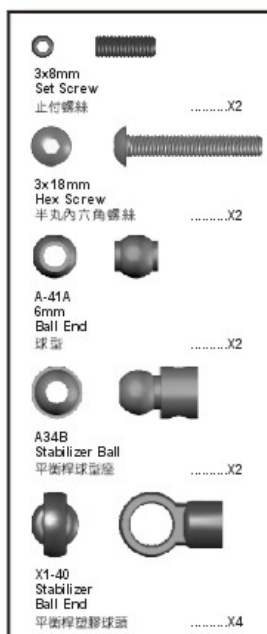
Assembly for both right and left side
請組合左 / 右兩側



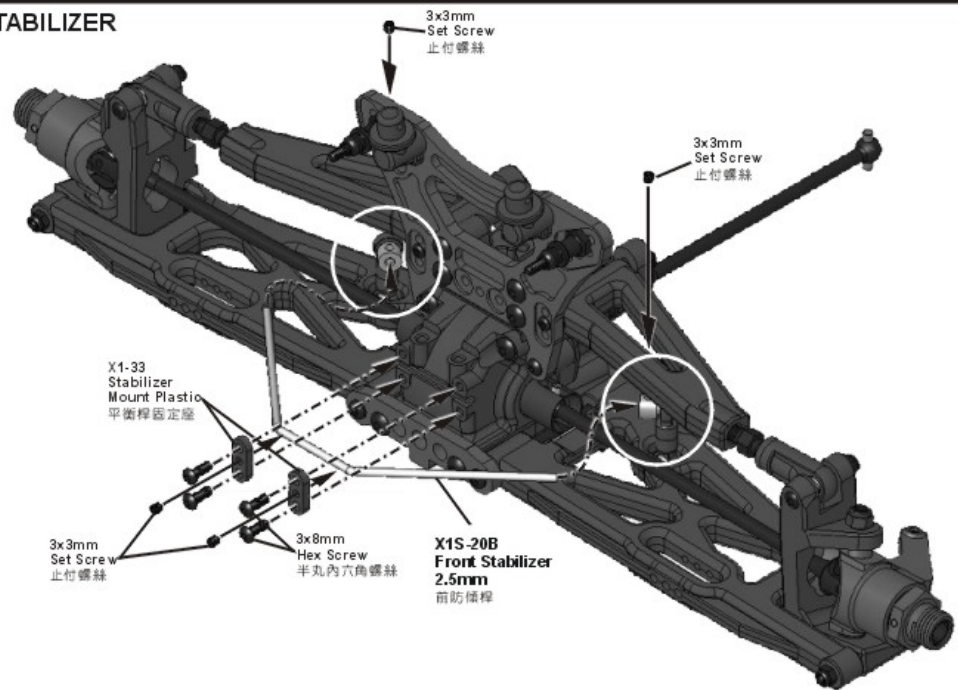
12 ASSEMBLY OF THE FRONT STABILIZER

前平衡桿組合

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



13 ASSEMBLY OF THE FRONT STABILIZER 前平衡桿組合

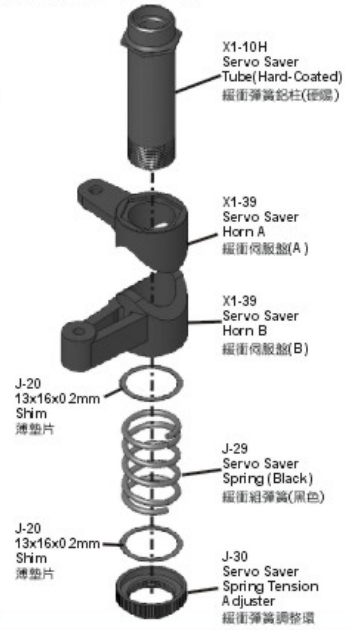


- 3x3mm Set Screw 止付螺絲X4
- 3x8mm Hex Screw 半孔內六角螺絲X4

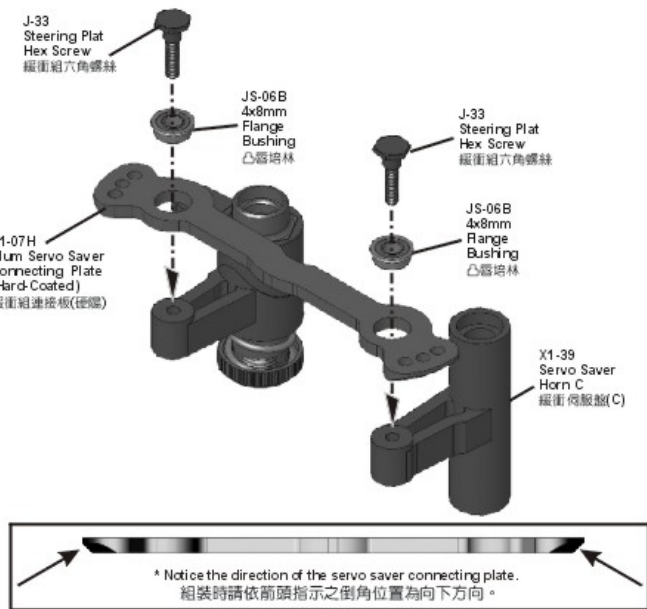
14 ASSEMBLY OF THE SERVO SAVER 緩衝組組合

Step 1

- J-20 13x16x0.2mm Shim 薄墊片X2
- JS-06B 4x8mm Flange Bushing 凸器培林X2
- J-33 Steering Plat Hex Screw 緩衝組六角螺絲X2



Step 2

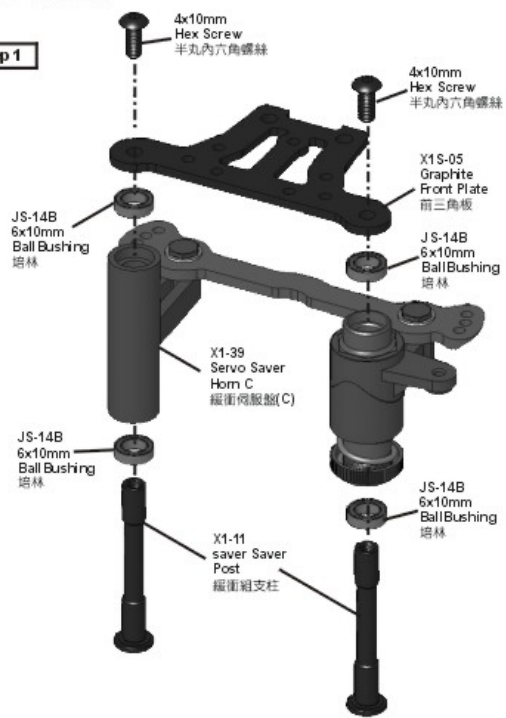


* Notice the direction of the servo saver connecting plate. 組裝時請依箭頭指示之倒角位置為向下方向。

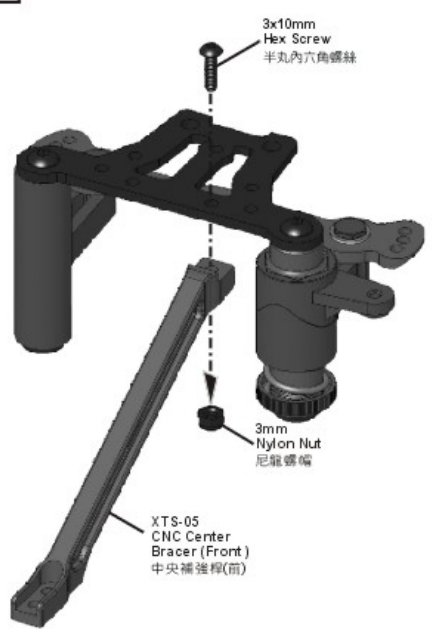
15 ASSEMBLY OF THE SERVO SAVER 緩衝組組合

Step 1

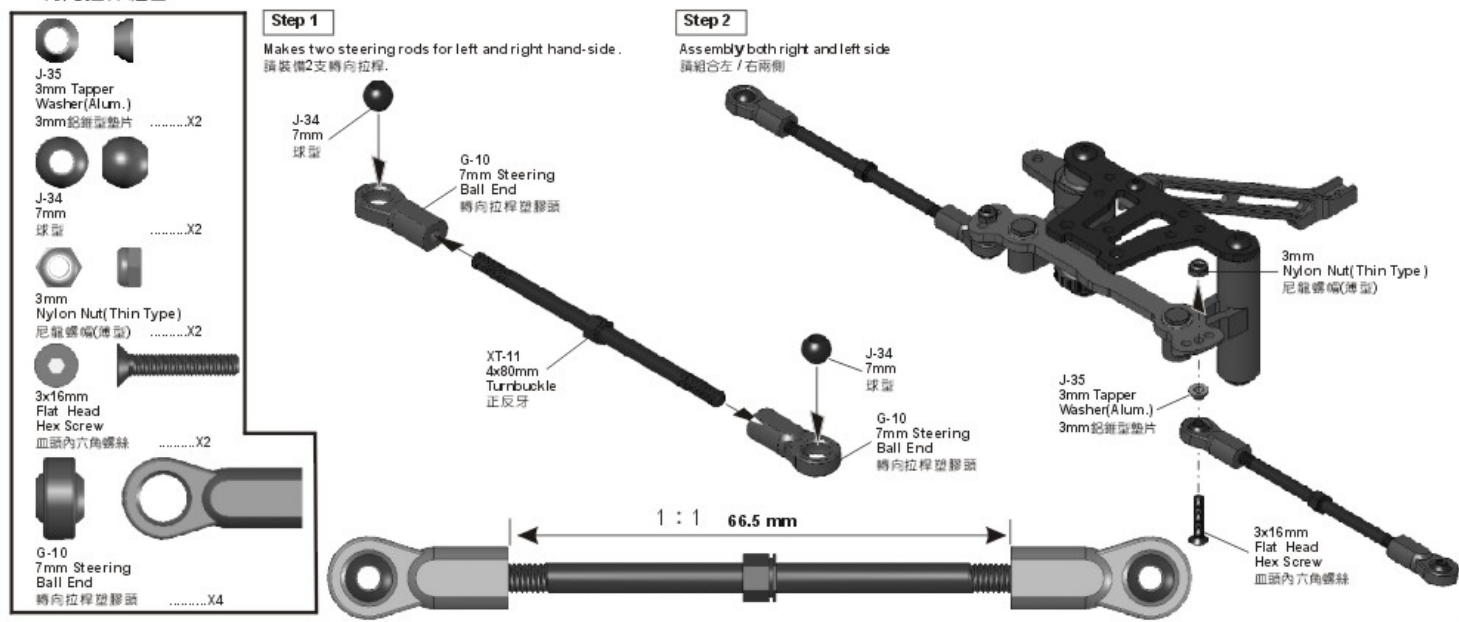
- 3mm Nylon Nut 尼龍螺帽X1
- 3x12mm Hex Screw 半孔內六角螺絲X1
- 4x10mm Hex Screw 半孔內六角螺絲X2
- JS-14B 6x10mm Ball Bushing 培林X4



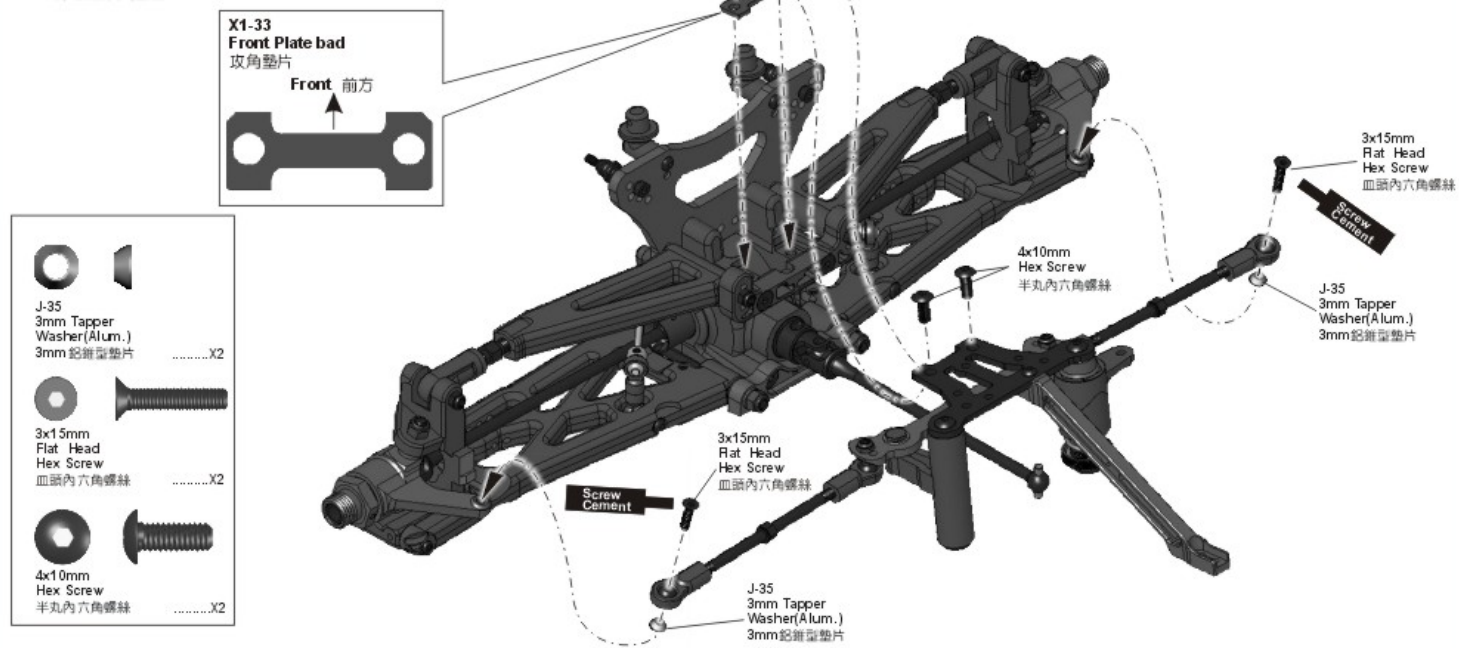
Step 2



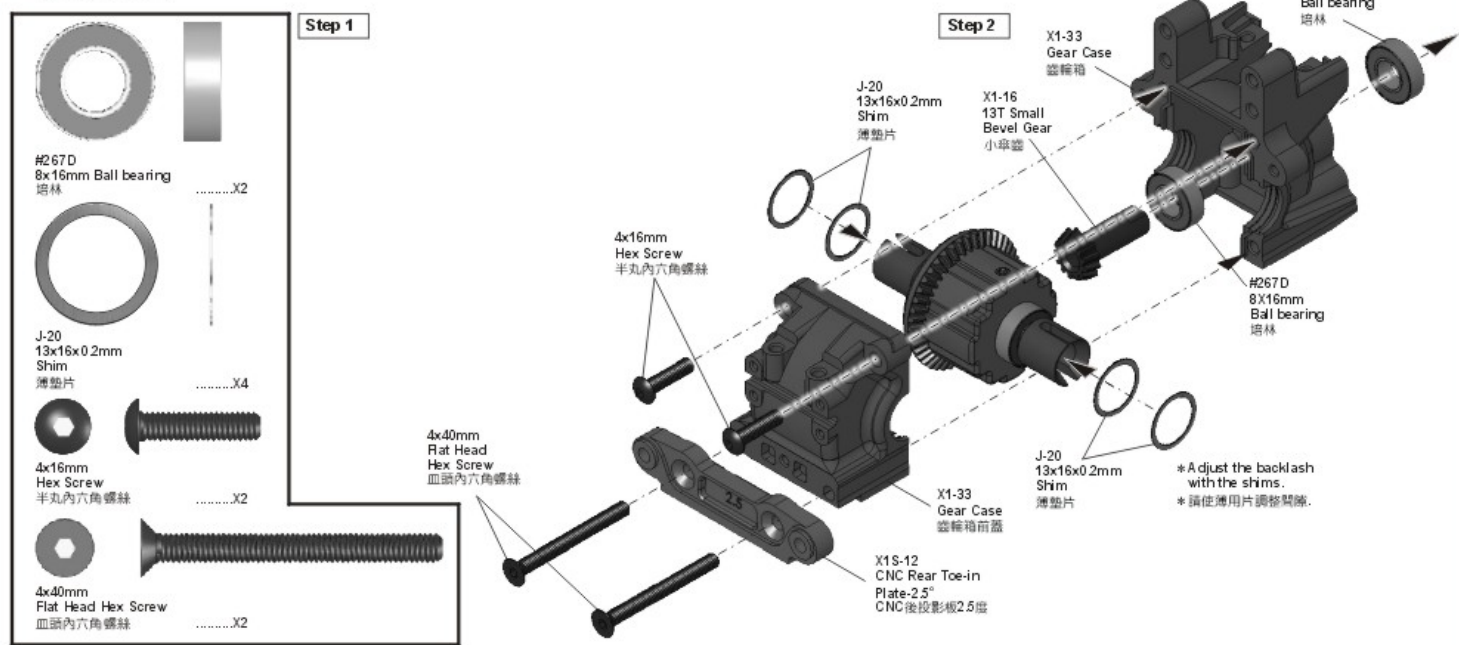
16 ASSEMBLY OF THE STEERING TIE-ROD 轉向拉桿組合



17 ASSEMBLY OF THE AND THE SERVO SAVER 轉向拉桿組合



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



19 ASSEMBLY OF THE REAR GEAR CASE

後齒輪箱組合

Step 1

5x4mm Set Screw
止付螺絲

Screw Cement

XTS-06
Universal Joint
Center (Rear/Long)
聯結式中央傳動軸(後/長)

Step 2

4x12mm Hex Screw
半孔內六角螺絲

X1-39
Center bracer
Mount
補強桿固定座

4x12mm Hex Screw
半孔內六角螺絲

XT-06H
Rear Lower Arm
Holder (Hard-Coated)
鋁後下擺臂補強板(硬膜)



20 ASSEMBLY OF THE REAR SHOCK STAY

後油壓架組合

Step 1

3x25mm Cap Screw
有頭內六角螺絲

X1-31
Shock Ball End Post
one-piece/Top
一體式避震器上支座

3x10mm Hex Screw
半孔內六角螺絲

X1-42
Rear body
Post
後車殼柱

Step 2

3x10mm Hex Screw
半孔內六角螺絲

X1-31
Shock Ball
End Post
一體式避震器上支座X2

3x10mm
Hex Screw
半孔內六角螺絲X3

3x25mm
Cap Screw
有頭內六角螺絲X2

XTS-03
7075 CNC Rear
Shock Tower
後油壓架

21 ASSEMBLY OF THE WING STAY

後定風翼架組合

3x15mm Hex Screw
半孔內六角螺絲

X1-42
Wing Mount
定風翼固定座

3x12mm Hex Screw
半孔內六角螺絲

X1-42
Wing Stay
Post
定風翼架避膠柱

3x12mm
Hex Screw
半孔內六角螺絲X2

3x15mm
Hex Screw
半孔內六角螺絲X4

X1-42
Wing Stay
Post
定風翼架避膠柱X3

X1-42
Wing Stay
Right
定風翼固定架
(右)

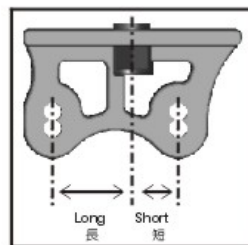
X1-42
Wing Stay
Post
定風翼架避膠柱

X1-42
Wing Mount
定風翼固定座

3x15mm Hex Screw
半孔內六角螺絲

3x12mm Hex Screw
半孔內六角螺絲

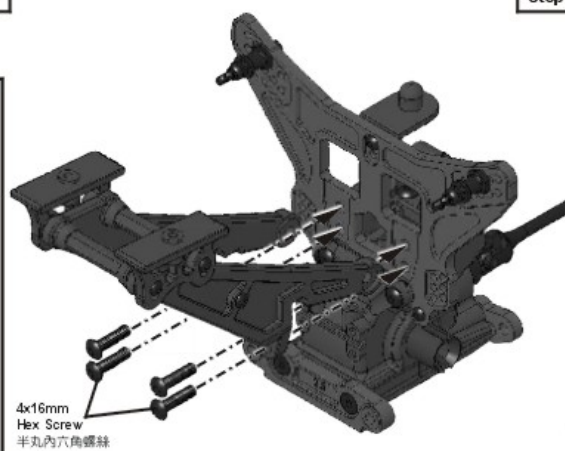
X1-42
Wing Stay
(Left)
定風翼固定架
(左)



22 ASSEMBLY OF THE WING STAY

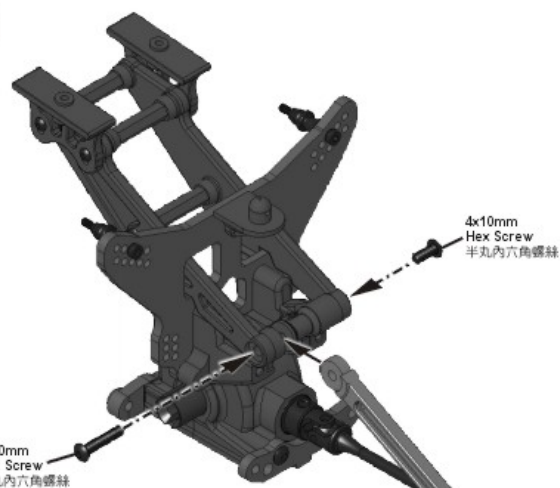
後定風翼架組合

Step 1



4x16mm
Hex Screw
半孔內六角螺絲

Step 2



4x20mm
Hex Screw
半孔內六角螺絲

4x10mm
Hex Screw
半孔內六角螺絲



4x10mm
Hex Screw
半孔內六角螺絲X1



4x16mm
Hex Screw
半孔內六角螺絲X4

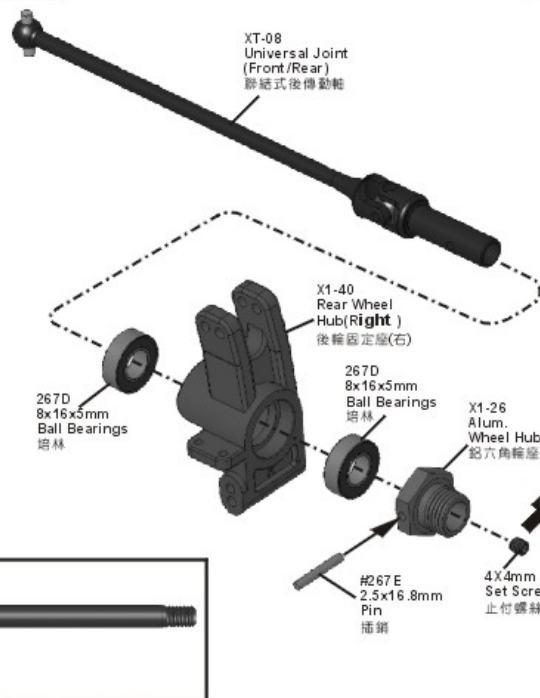


4x20mm
Hex Screw
半孔內六角螺絲X1

23 ASSEMBLY OF THE REAR WHEEL HUBS

後輪座組合

Step 1



XT-08
Universal Joint
(Front/Rear)
聯結式後傳動軸

X1-40
Rear Wheel
Hub(Right)
後輪固定座(右)

267D
8x16x5mm
Ball Bearings
培林

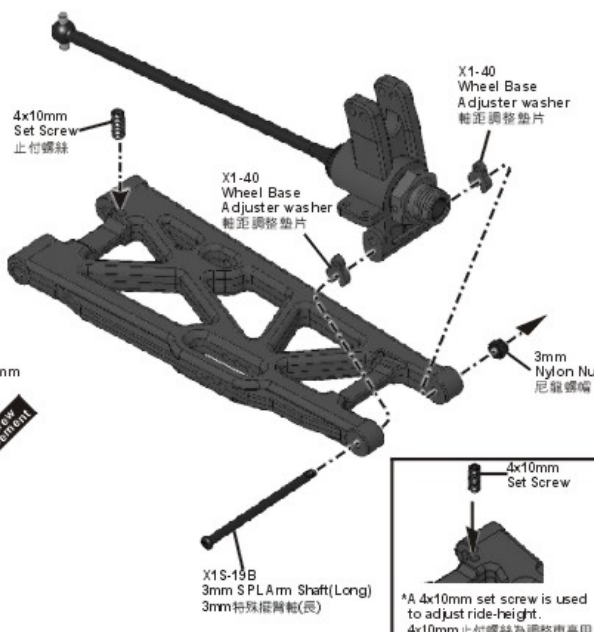
267D
8x16x5mm
Ball Bearings
培林

X1-26
Alum.
Wheel Hub 5mm
鋁六角輪座

#267 E
2.5x16.8mm
Pin
插銷

4x4mm
Set Screw
止付螺絲

Step 2



4x10mm
Set Screw
止付螺絲

X1-40
Wheel Base
Adjuster washer
輪距調整墊片

X1-40
Wheel Base
Adjuster washer
輪距調整墊片

X1-40
Wheel Base
Adjuster washer
輪距調整墊片

3mm
Nylon Nut
尼龍螺帽

X1S-19B
3mm SPL Arm Shaft(Long)
3mm特殊旋臂軸(長)

4x10mm
Set Screw
止付螺絲

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



4x4mm
Set Screw
止付螺絲X2



3mm
Nylon Nut
尼龍螺帽X2



4x10mm
Set Screw
止付螺絲X2



#267 E
2.5x16.8mm
Pin
插銷X2



#267 D
8x16x5mm
Ball bearing
培林X4

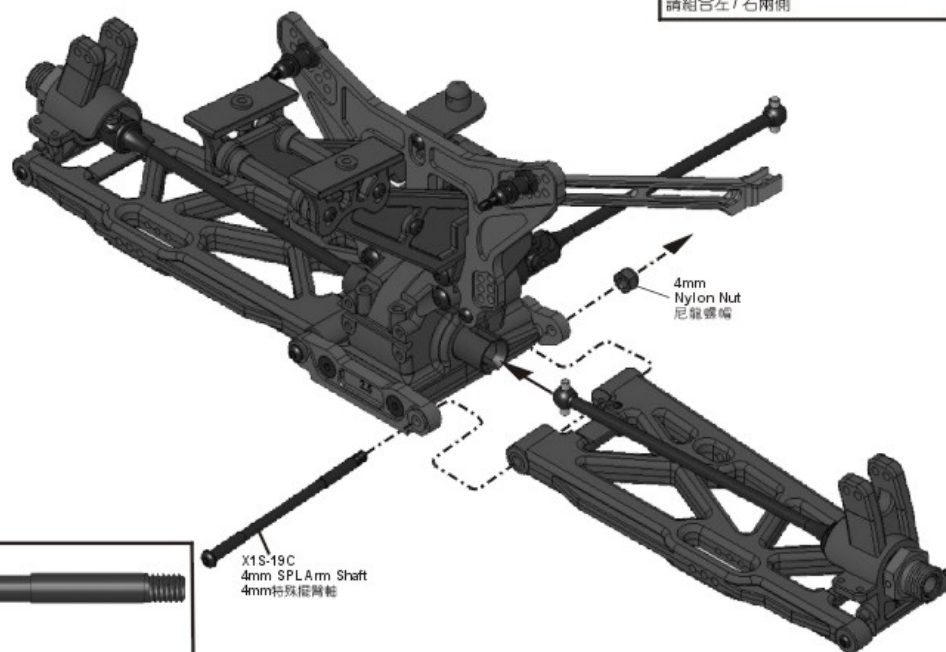


X1S-19B
3mm SPL Arm Shaft(Long)
3mm特殊旋臂軸(長)X2

24 ASSEMBLY OF THE REAR SUSPENSION ARMS

後懸吊系統組合

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



4mm
Nylon Nut
尼龍螺帽

X1S-19C
4mm SPL Arm Shaft
4mm特殊旋臂軸

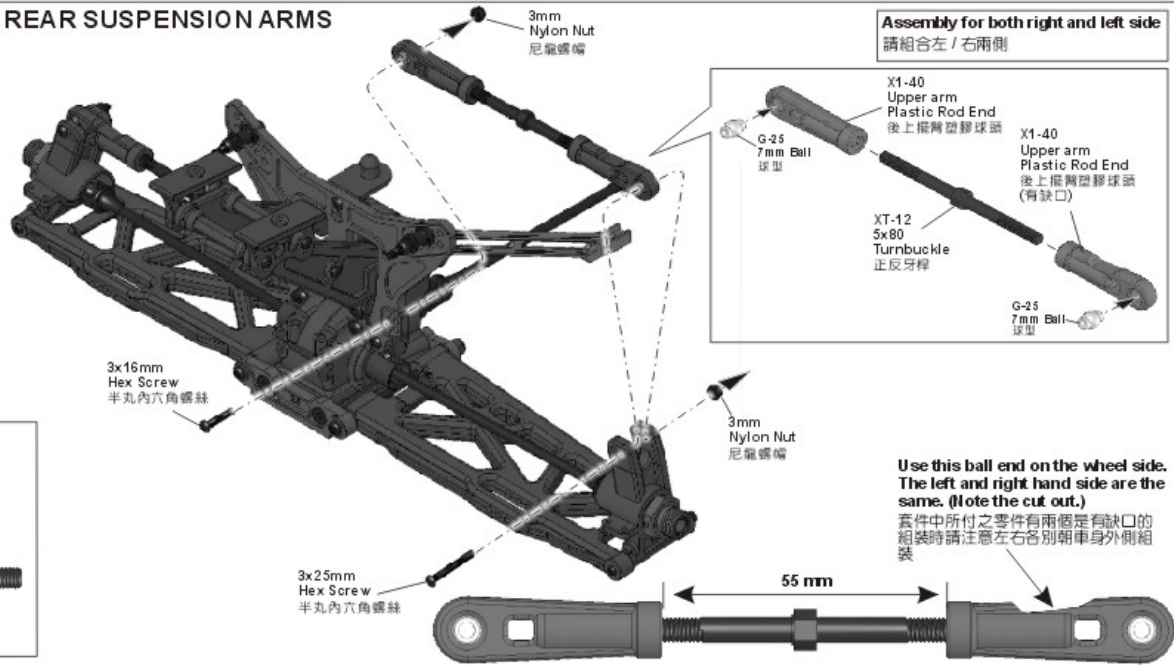
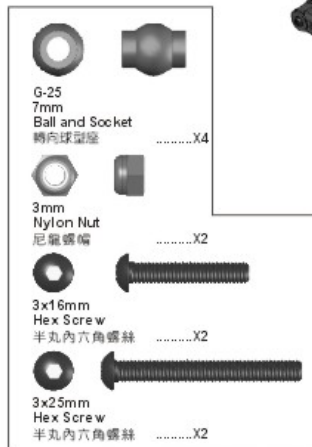


4mm
Nylon Nut
尼龍螺帽X2

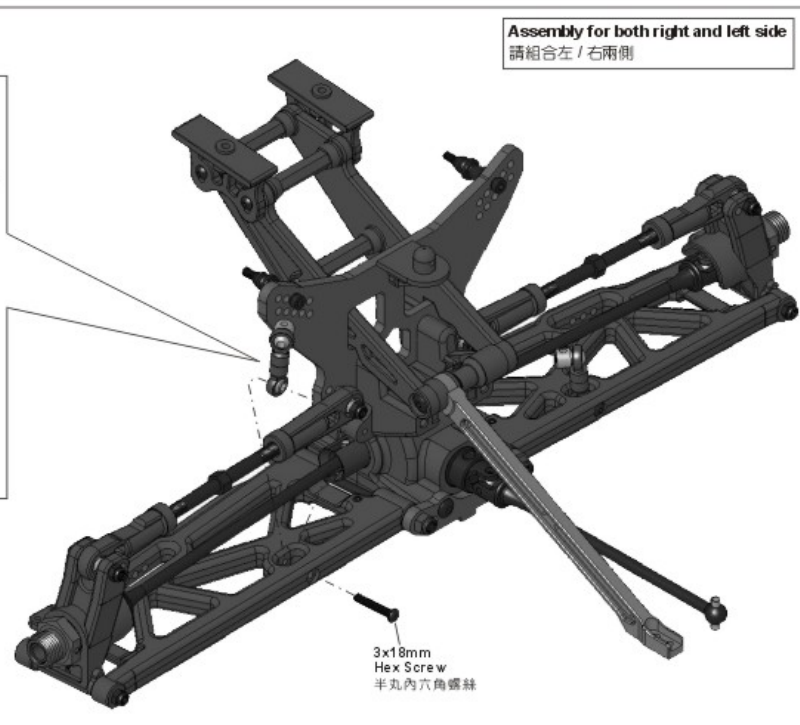
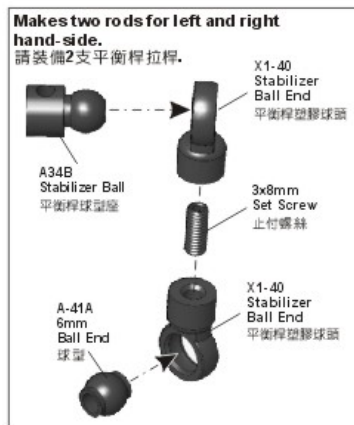
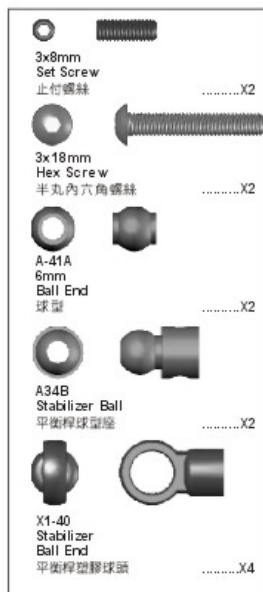


X1S-19C
4mm SPL Arm Shaft
4mm特殊旋臂軸X2

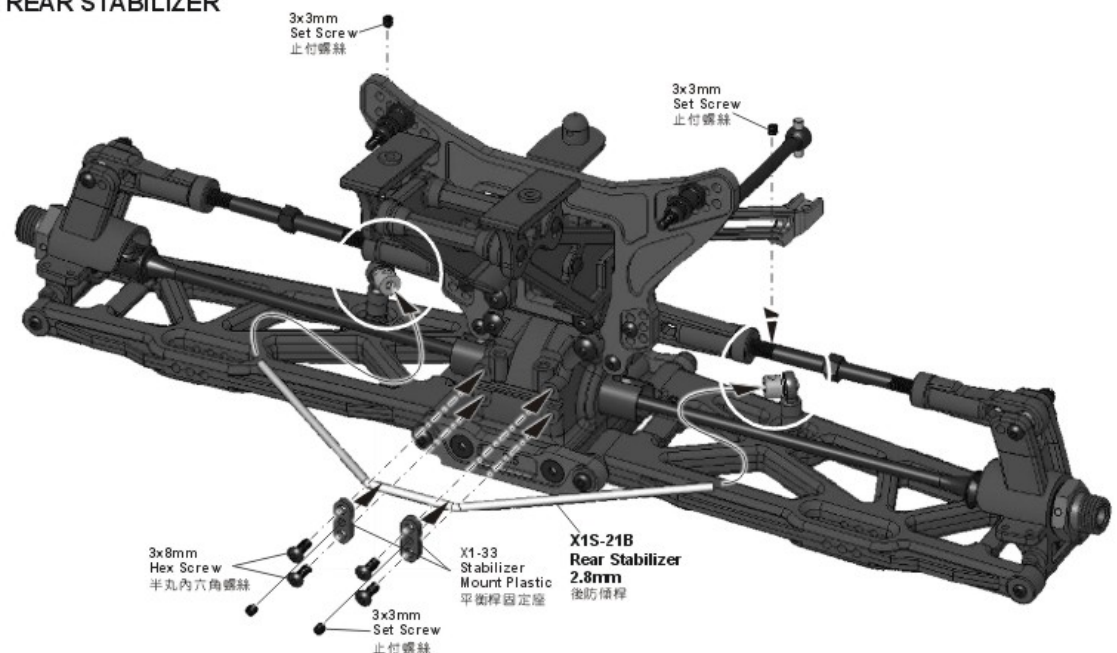
25 ASSEMBLY OF THE REAR SUSPENSION ARMS 後懸吊系統組合



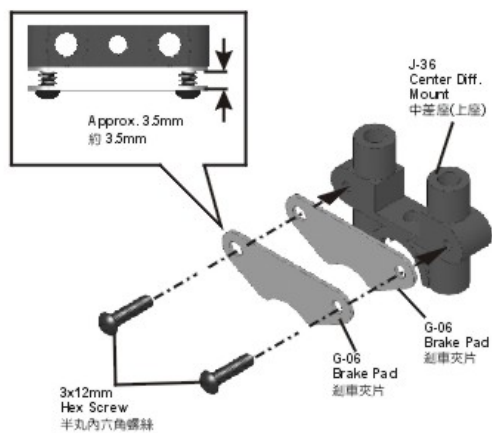
26 ASSEMBLY OF THE REAR STABILIZER 後平衡桿組合



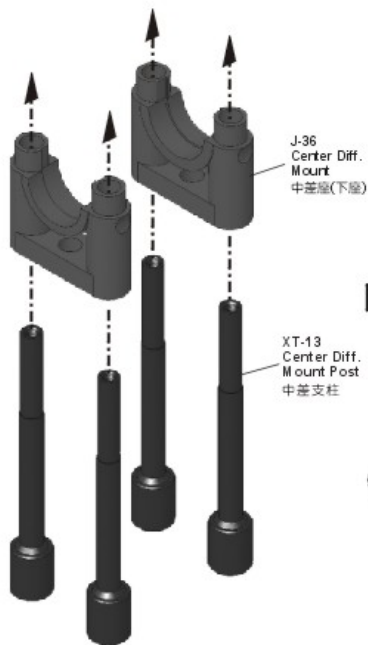
27 ASSEMBLY OF THE REAR STABILIZER 後平衡桿組合



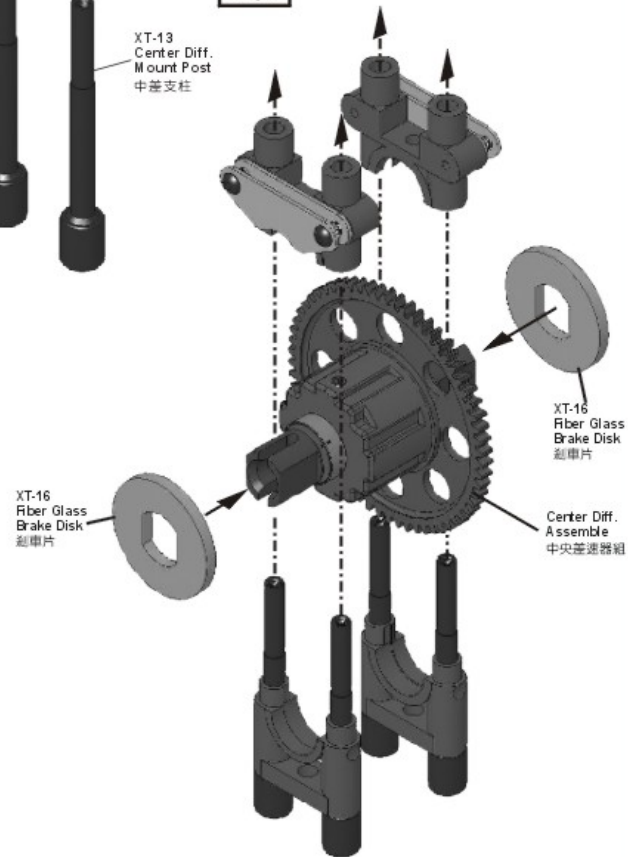
Step 1



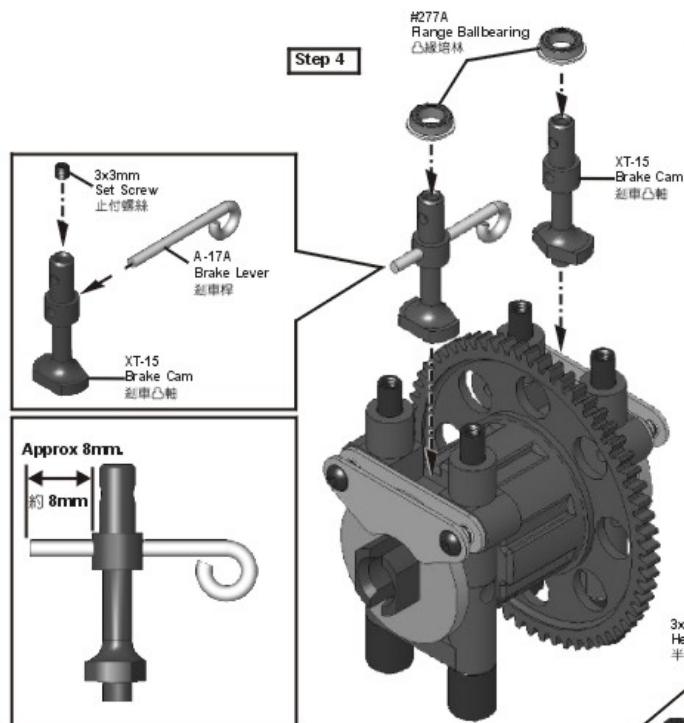
Step 2



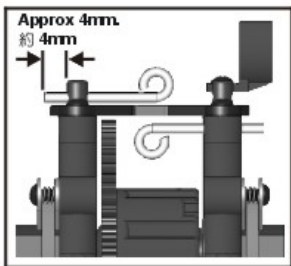
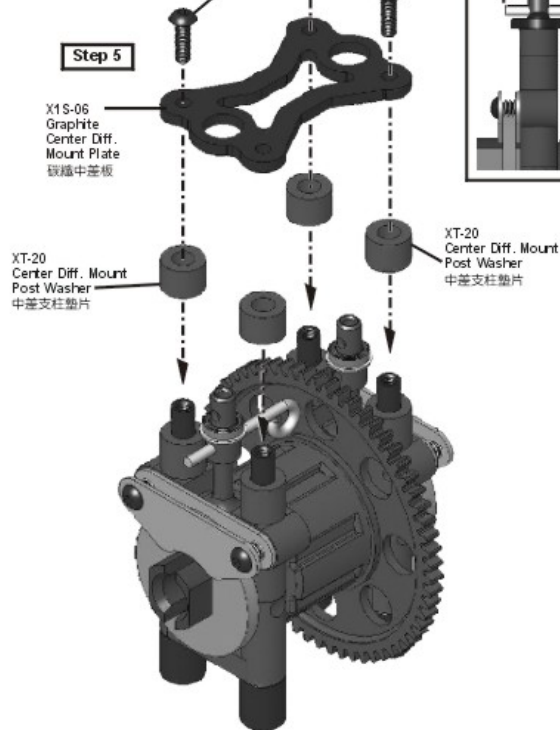
Step 3



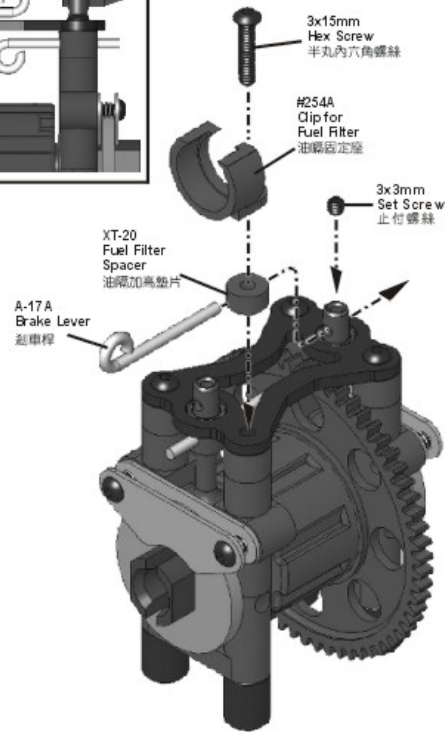
Step 4



Step 5



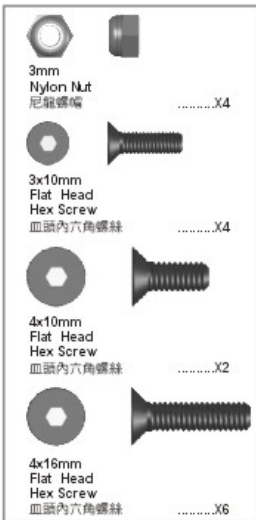
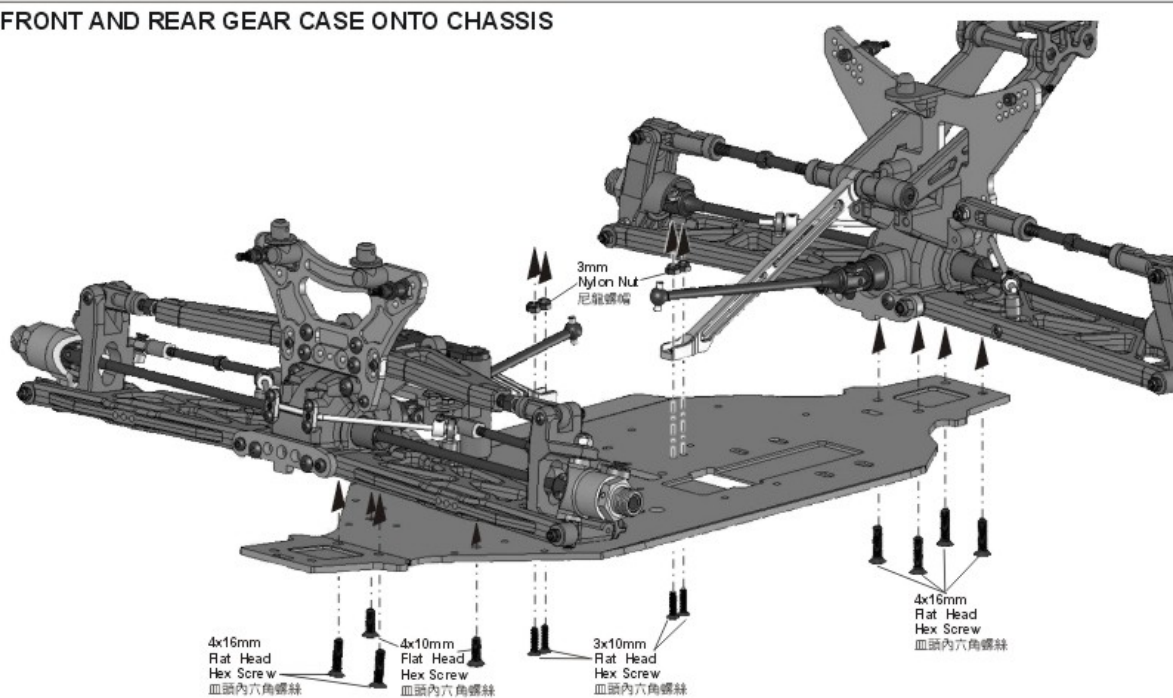
Step 6



- 3x3mm Set Screw
止付螺絲X2
- #277A 5x8mm Flange Ballbearing
凸緣培林X2
- 3x10mm Hex Screw
半孔內六角螺絲X3
- 3x12mm Hex Screw
半孔內六角螺絲X3

29 ASSEMBLY OF THE FRONT AND REAR GEAR CASE ONTO CHASSIS

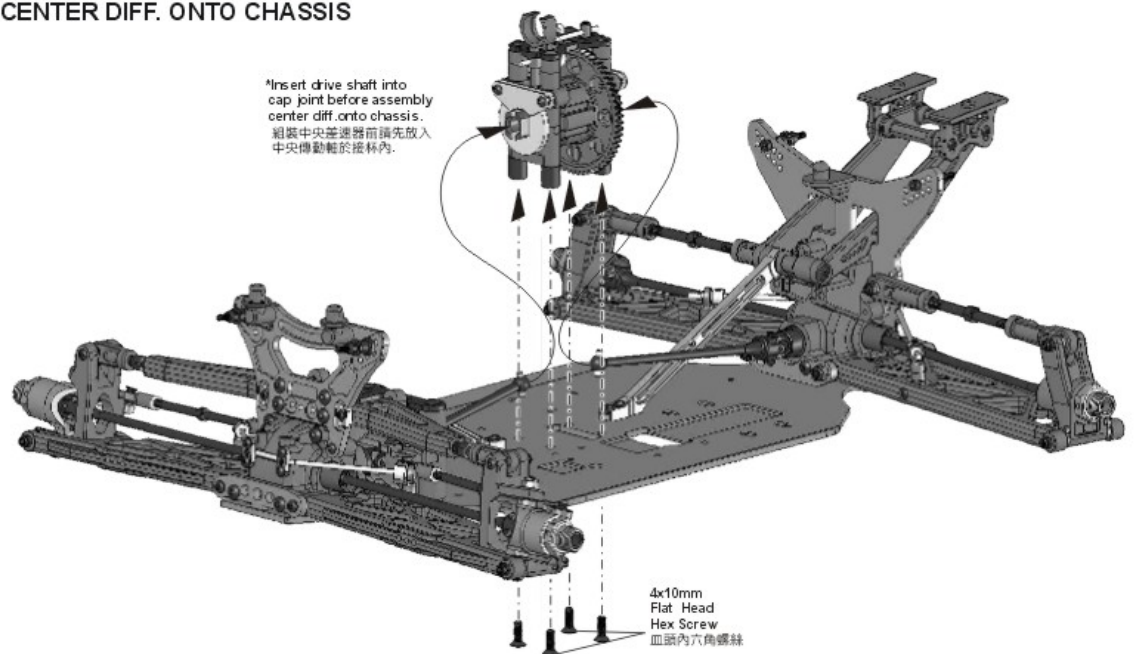
組合前後齒輪箱至底盤



4x16mm Flat Head Hex Screw 皿頭內六角螺絲
4x10mm Flat Head Hex Screw 皿頭內六角螺絲
3x10mm Flat Head Hex Screw 皿頭內六角螺絲
4x16mm Flat Head Hex Screw 皿頭內六角螺絲

30 ASSEMBLY OF THE CENTER DIFF. ONTO CHASSIS

中差座與底盤組合



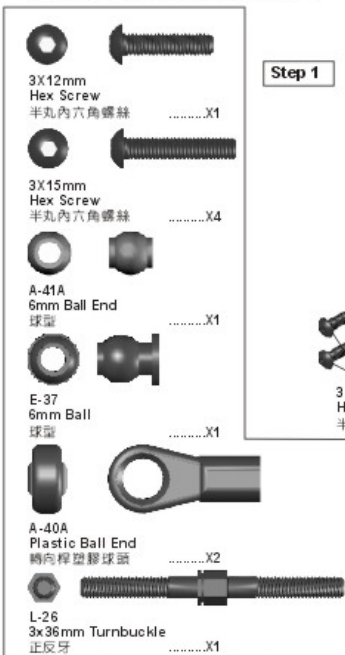
*Insert drive shaft into cap joint before assembly center diff. onto chassis.
組裝中央差速器前請先放入中央傳動軸於接柱內。



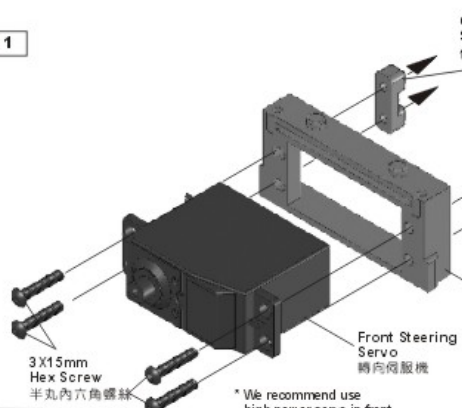
4x10mm Flat Head Hex Screw 皿頭內六角螺絲

31 ASSEMBLY OF THE STEERING SERVO AND STEERING ROD

轉向伺服機與轉向拉桿組合



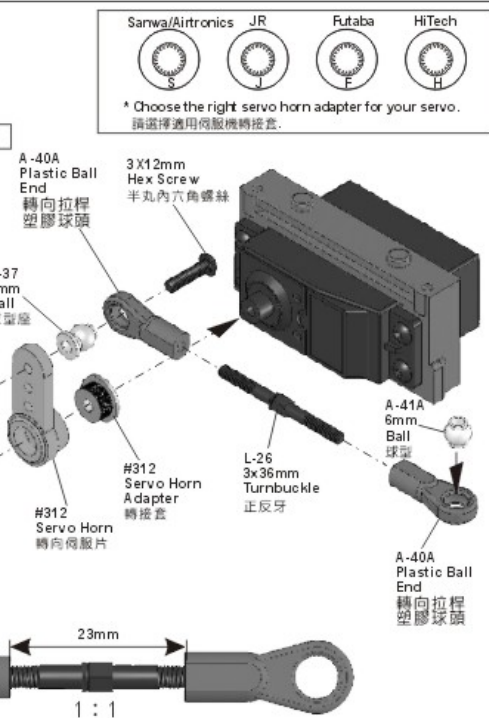
Step 1



* We recommend use high power servo in front.
*建議使用大扭力轉向伺服機。

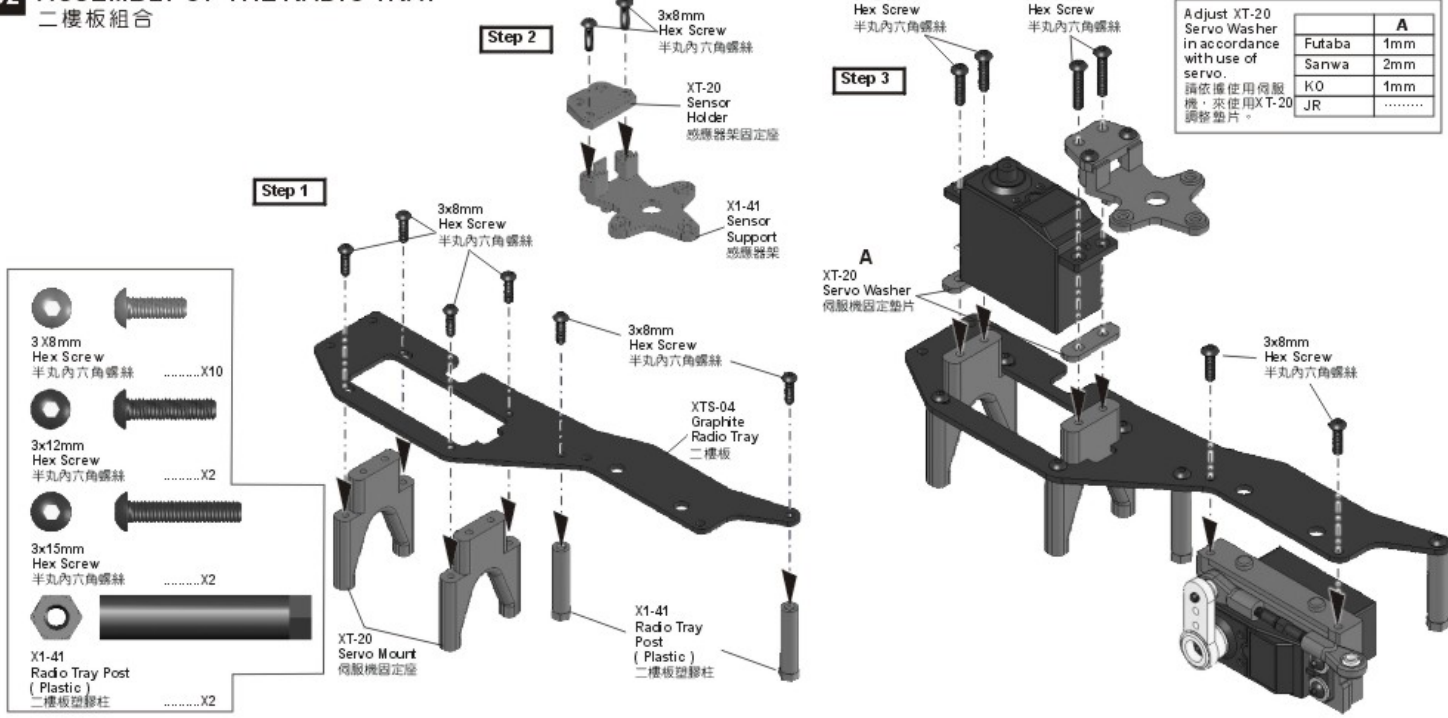
Use the screw provided with your servo.
請取用自伺服機所付螺絲。

Step 2



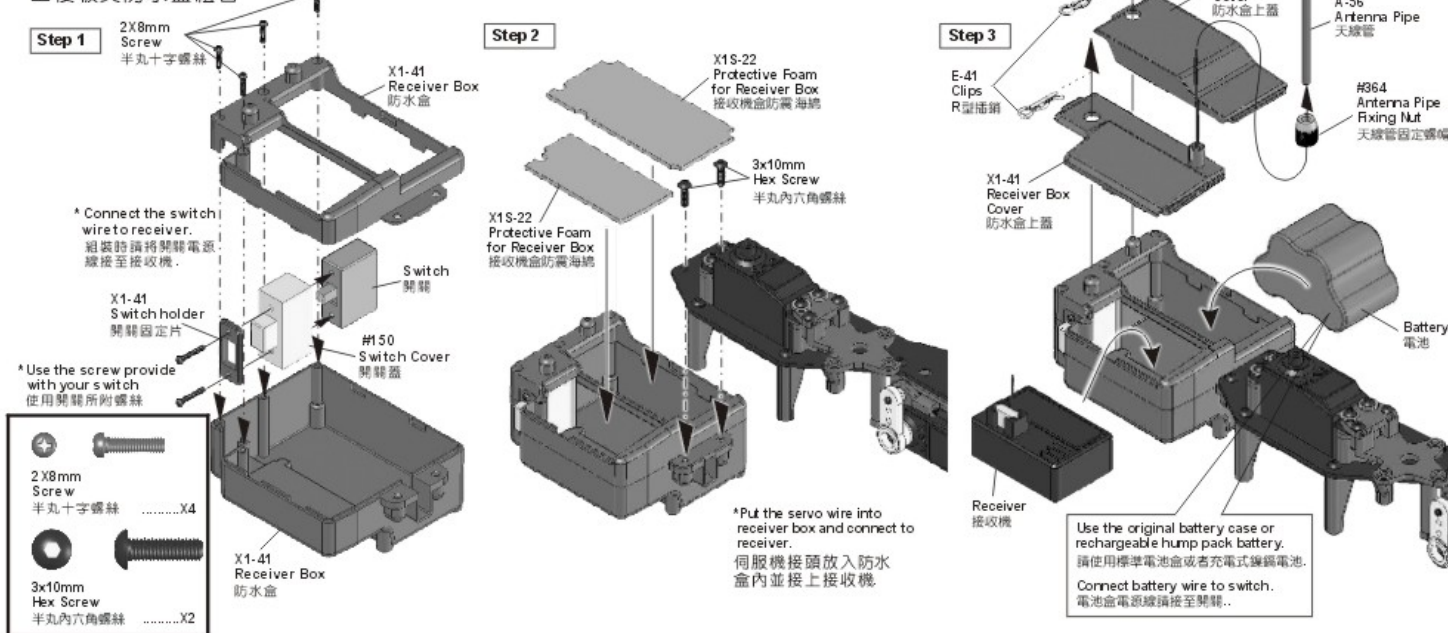
32 ASSEMBLY OF THE RADIO TRAY

二樓板組合



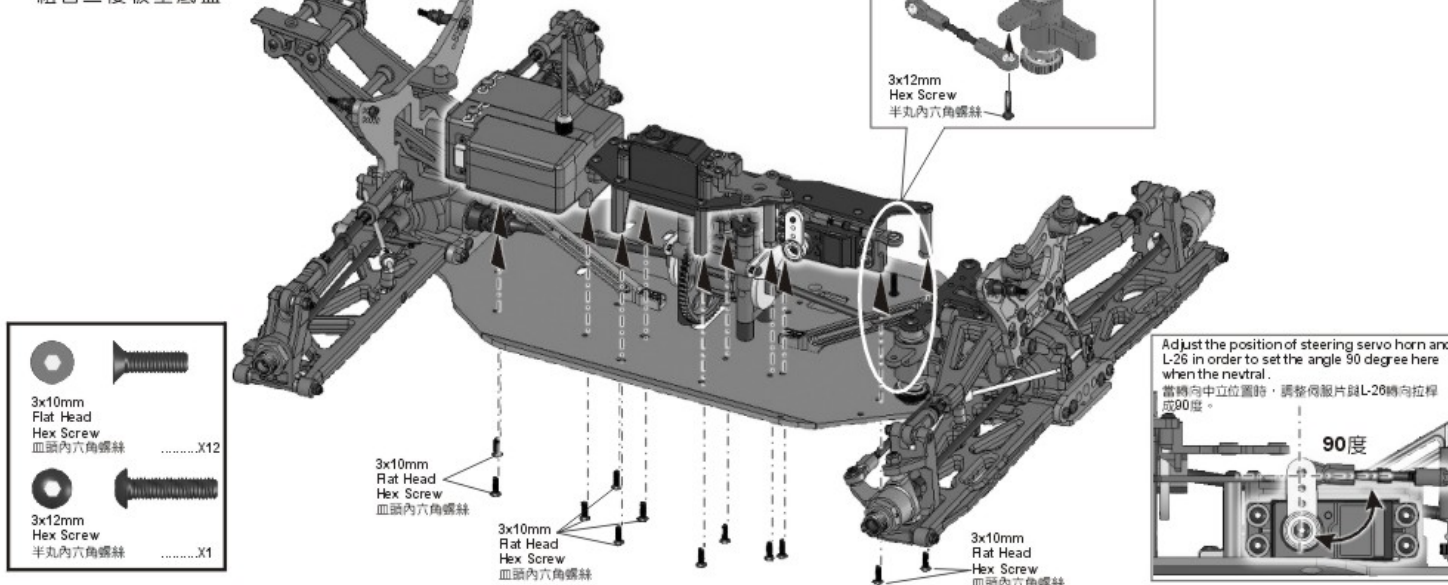
33 ASSEMBLY OF THE RADIO TRAY AND RECEIVER BOX

二樓板與防水盒組合



34 ASSEMBLY OF THE RADIO TRAY ONTO CHASSIS

組合二樓板至底盤

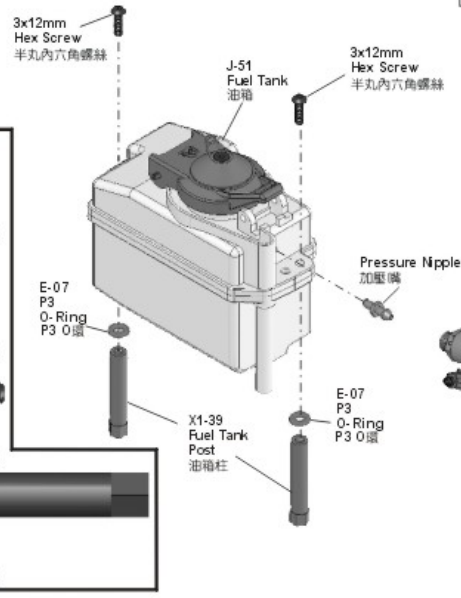


35 ASSEMBLY OF THE FUEL TANK

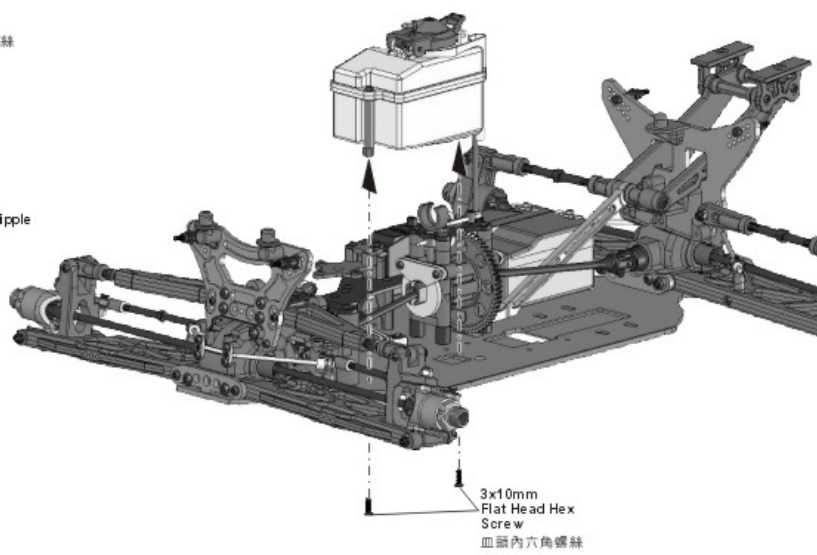
油箱組合

Step 1

- E-07 P3 O-Ring P3 O環X2
- 3x10mm Flat Head Hex Screw 皿頭內六角螺絲X2
- 3x12mm Hex Screw 半丸內六角螺絲X2
- X1-39 Fuel Tank Post 油箱柱X2



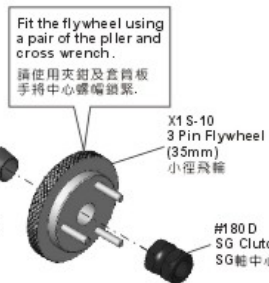
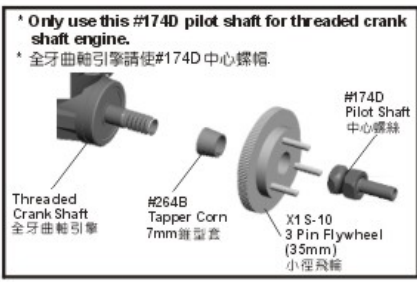
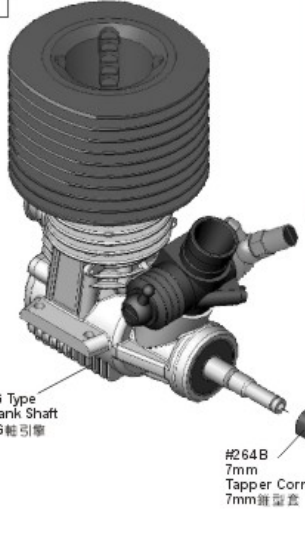
Step 2



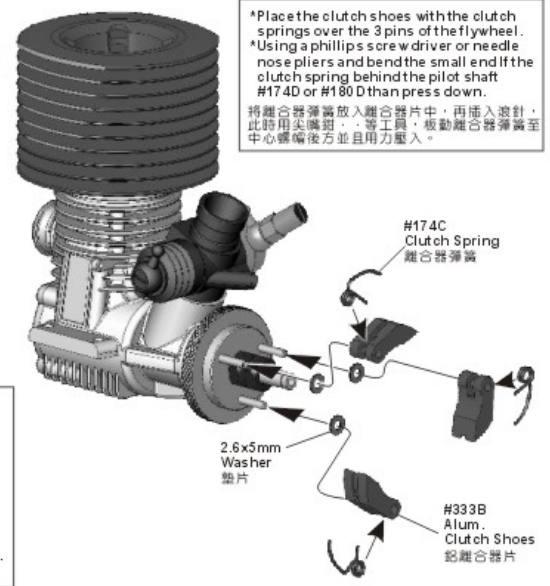
36 ASSEMBLY OF THE CLUTCH

組合離合器

Step 1



Step 2

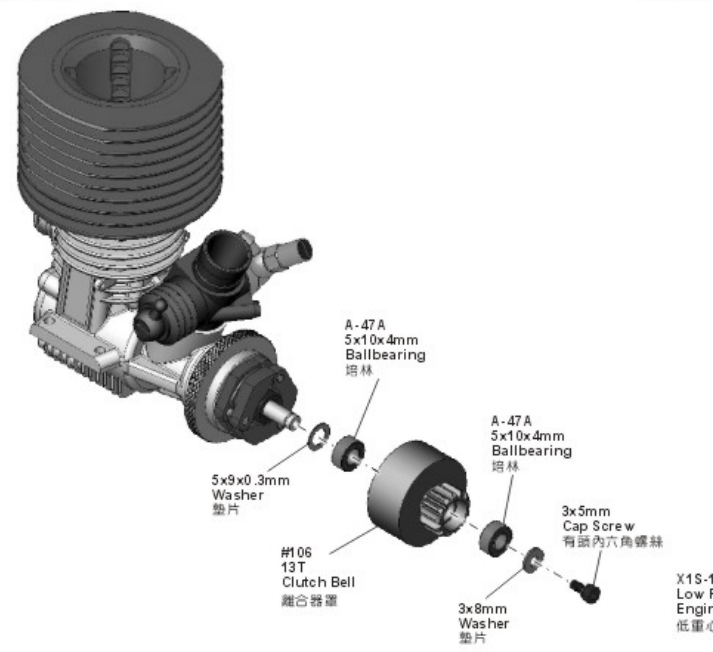


37 ASSEMBLY OF THE CLUTCH AND ENGINE MEUNT

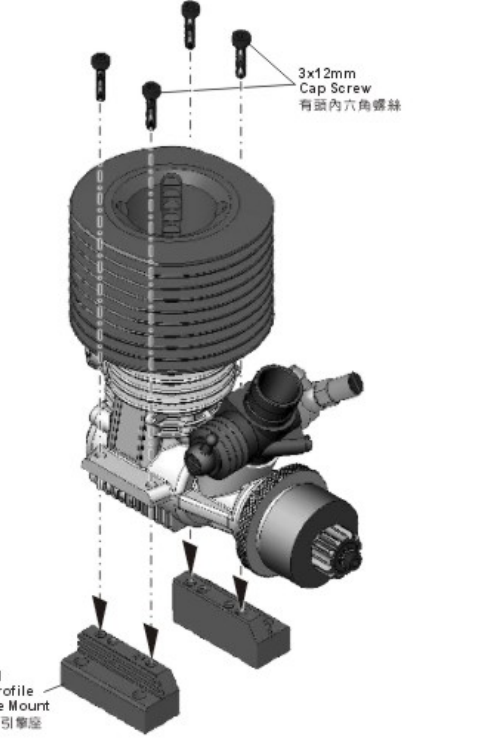
組合離合器

Step 1

- 3x8mm Washer 墊片X1
- 5x9x0.3mm Washer 墊片X1
- A-47 A 5x10x4mm Ballbearing 培林X2
- 3x5mm Cap Screw 有頭內六角螺絲X1
- 3x16mm Cap Screw 有頭內六角螺絲X4

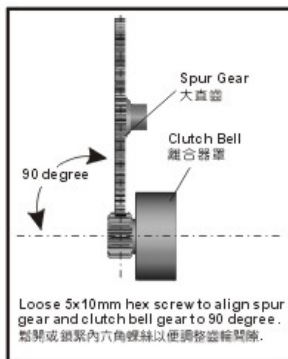


Step 2

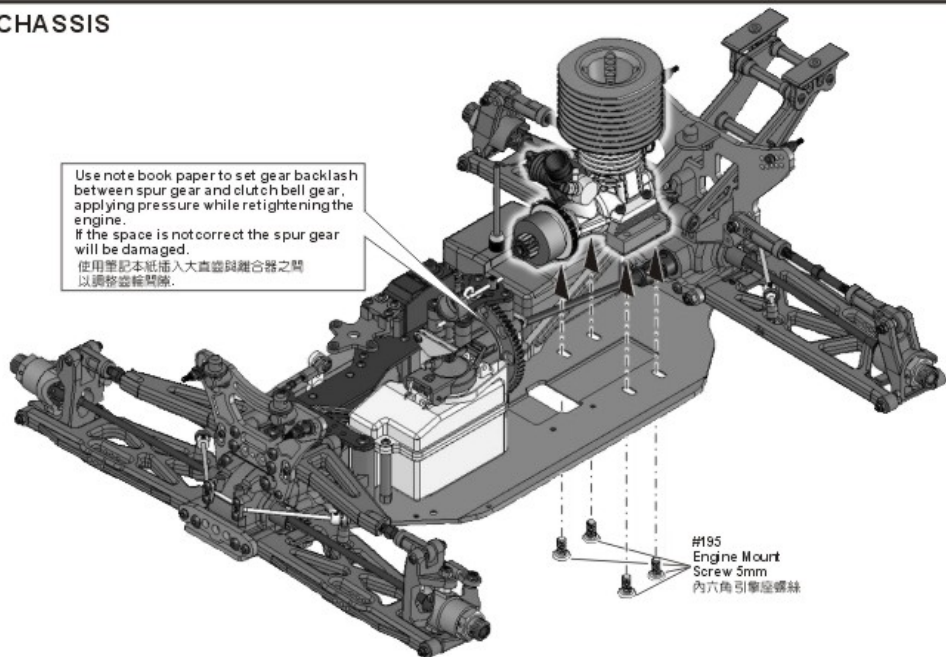


38 ASSEMBLY OF THE ENGINE ONTO CHASSIS

引擎組合至底盤



Use note book paper to set gear backlash between spur gear and clutch bell gear, applying pressure while retightening the engine.
If the space is not correct the spur gear will be damaged.
使用筆記本紙插入大直齒與離合器之間以調整齒輪間隙。

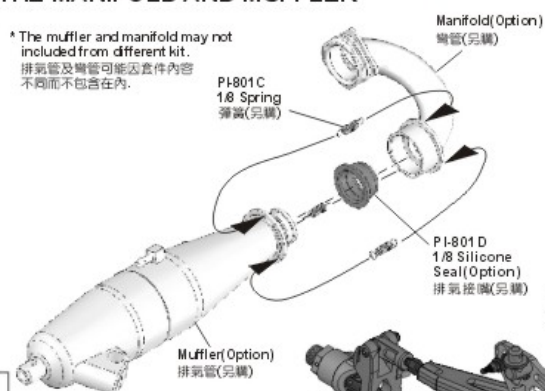


39 ASSEMBLY OF THE MANIFOLD AND MUFFLER

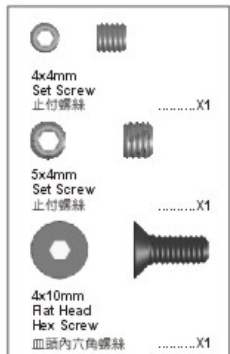
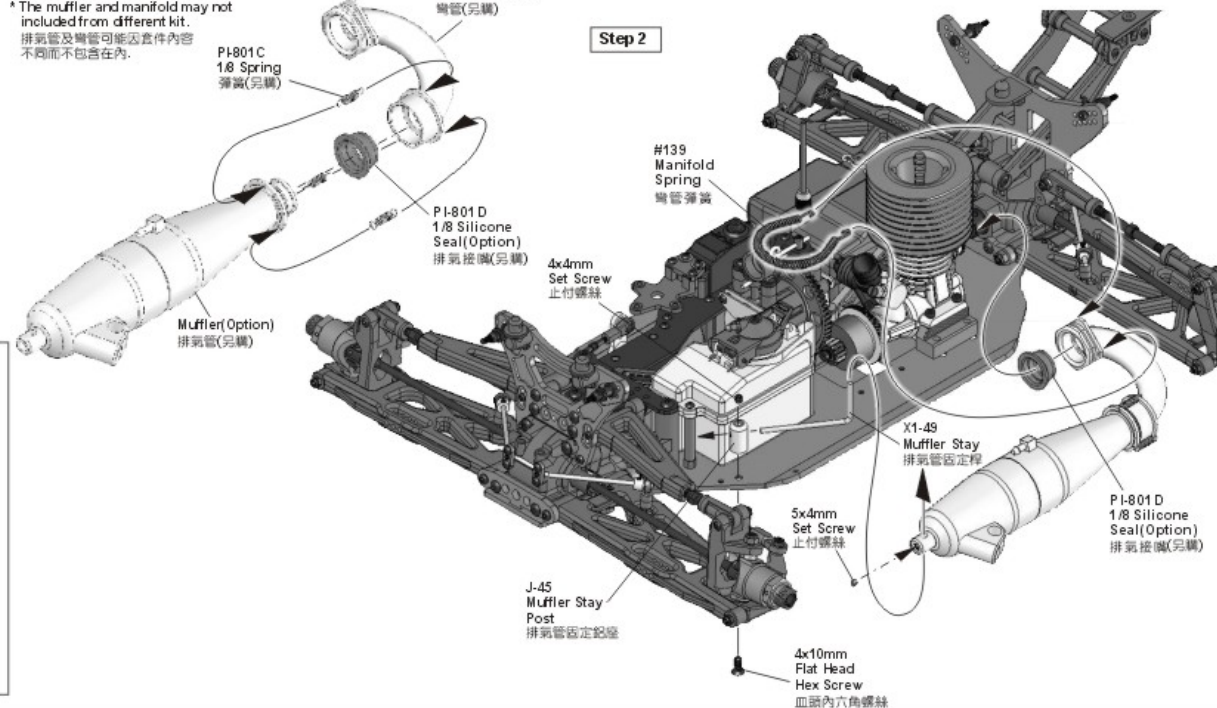
排氣管與彎管組合

Step 1

* The muffler and manifold may not included from different kit.
排氣管及彎管可能因套件內容不同而不包含在內。



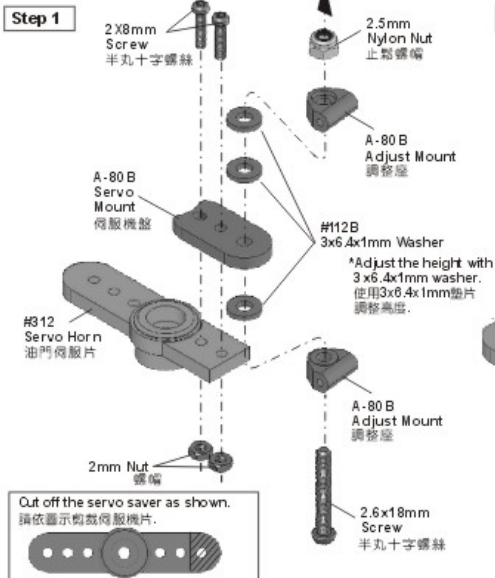
Step 2



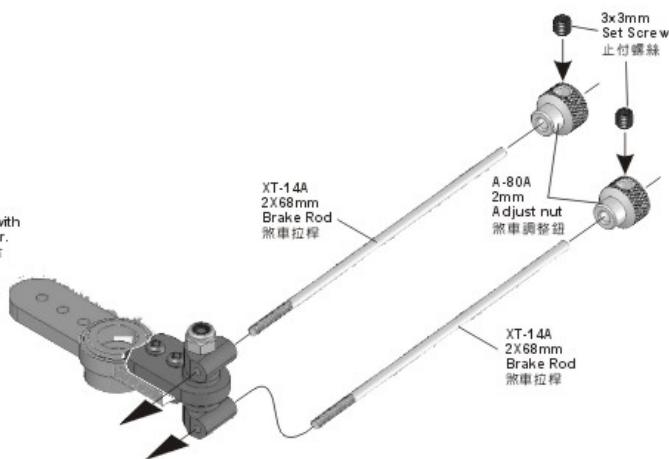
40 ASSEMBLY OF THE THROTTLE LINKAGE

油門伺服盤與煞車調整組組合

Step 1



Step 2

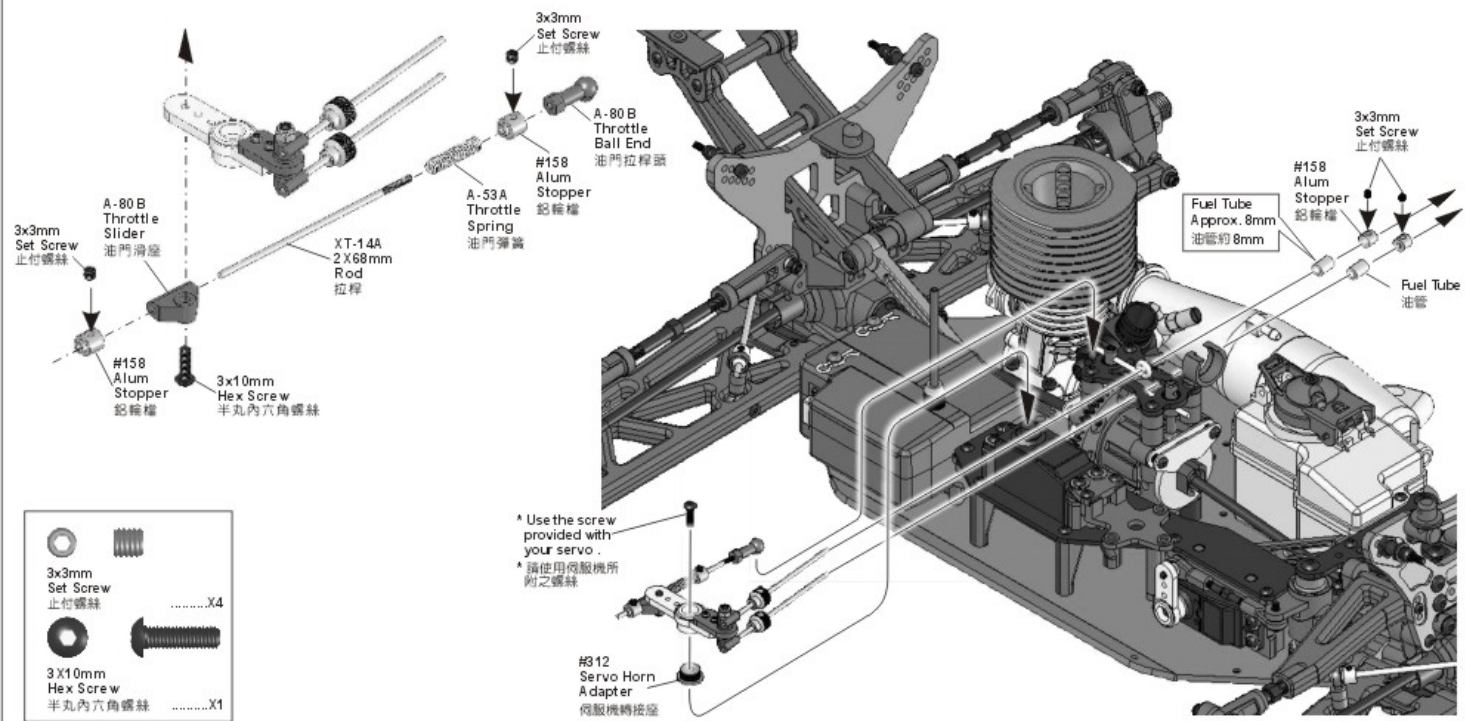


Out off the servo saver as shown.
請依圖示剪掉伺服機片。

41 ASSEMBLY OF THE THROTTLE LINKAGE (Type A) 油門伺服器與煞車調整組組合 (Type A)

Step 1

Step 2

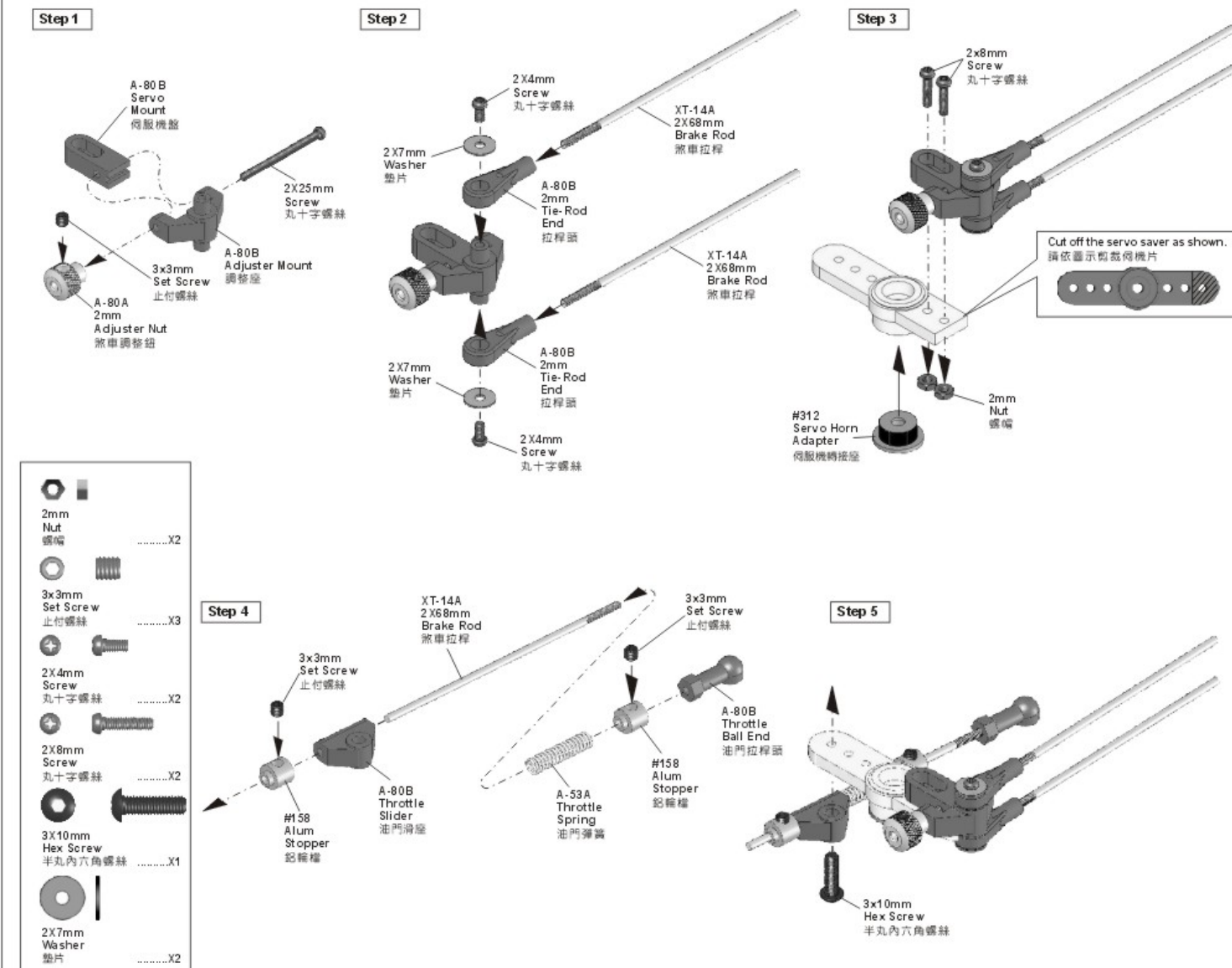


42 ASSEMBLY OF THE THROTTLE LINKAGE (Type B) 油門伺服器與煞車調整組組合 (Type B)

Step 1

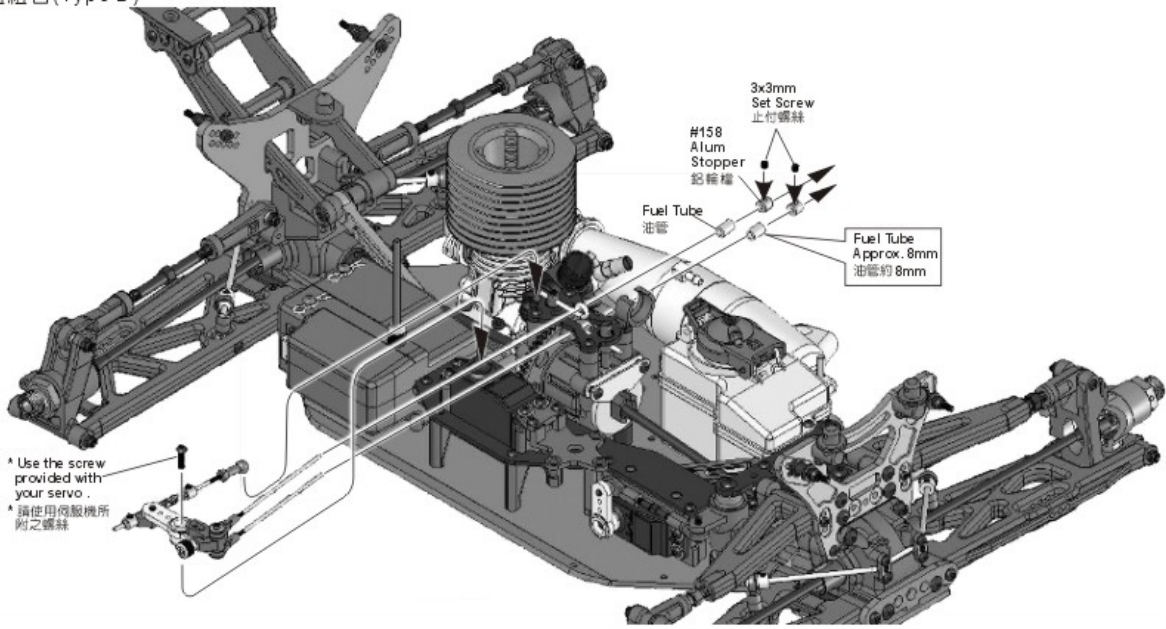
Step 2

Step 3



43 ASSEMBLY OF THE ENGINE CONTROL LINKAGES (Type B)

油門何版盤與煞車調整組組合(Type B)



Use the screw provided with your servo.
請使用何版機所附之螺絲

3x3mm Set Screw
#158 Alum Stopper

Fuel Tube
Fuel Tube Approx. 8mm

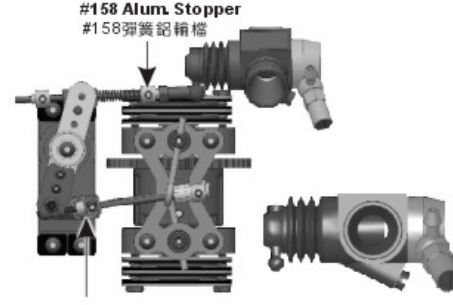
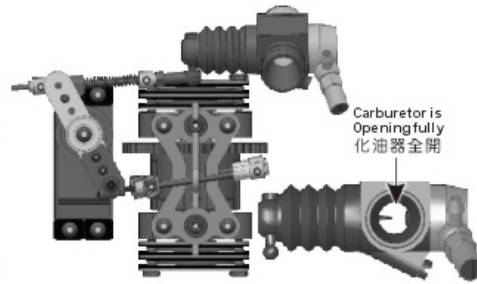
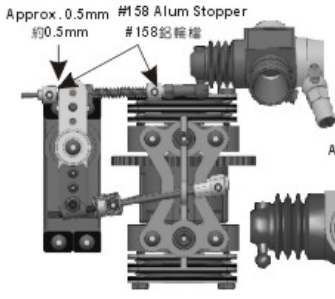
44 ADJUSTING THE ENGINE CONTROL LINKAGES

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



- * 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.

- * 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 it is opening excessively. Or if available on the Transmitter, adjust the Throttle high endpoint.

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

- * 開啟遙控器和接收機的電源並且調整何版機片在中立位置
- * 調整怠速螺絲使化油器開口約1mm間隙
- * 調整 #158 螺絲與油門滑座約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。

- * 將遙控器油門開放在全速位置。
- * 如果化油器開度不足或過度，請改變油門滑座和何版片的安裝孔位，使化油器開度至全開位置。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。

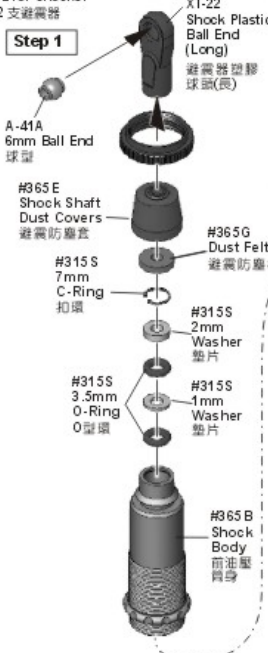
- * 調整彈簧螺絲使煞車動作滑順。
- * 如果煞車不足或過度，請調整 #158 螺絲位置，或是遙控器有煞車行程調整功能，也可使用調整煞車位置。
- * 調整 A-80A 調整螺絲，改變前 / 後煞車力度。

45 ASSEMBLY OF THE FRONT SHOCKS

前避震器組合^A Make 2 for Shocks.

組合 2 支避震器

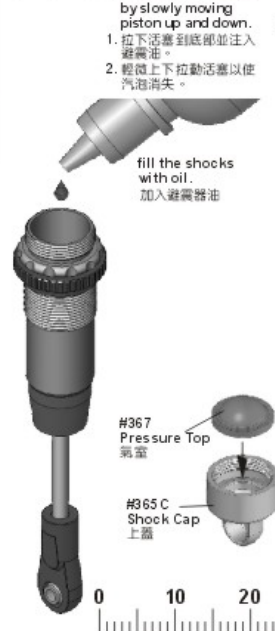
- 2.5mm Nylon NutX2
- #315S 3.5mm O-RingX4
- #315S 1mm Washer...X2
- #315S 2mm Washer...X2
- A-41A 6mm Ball EndX2
- 2.6x5mm WasherX4



Step 1

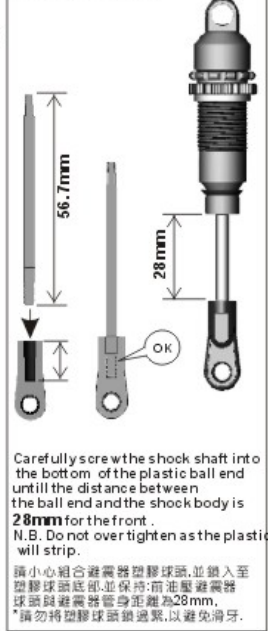


Step 2



CORRECT SHOCK ASSEMBLY

油壓避震器正確組合



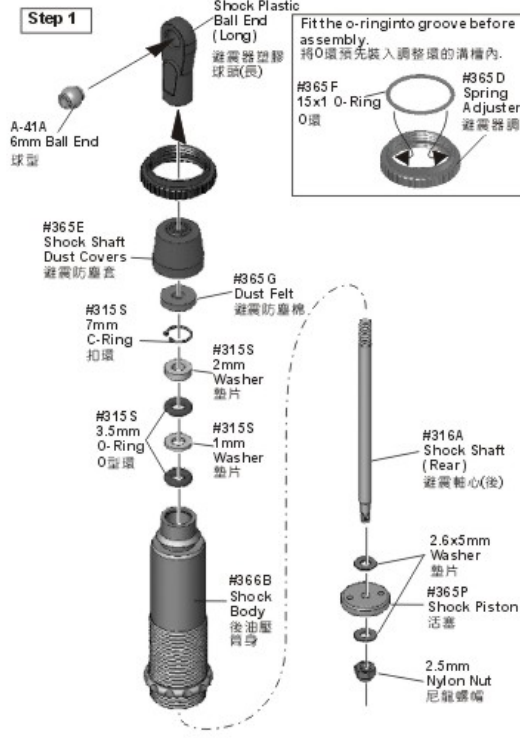
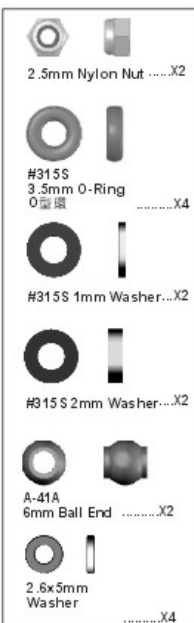
Carefully screw the shock shaft into the bottom of the plastic ball end until the distance between the ball end and the shock body is 28mm for the front.

46 ASSEMBLY OF THE REAR SHOCKS

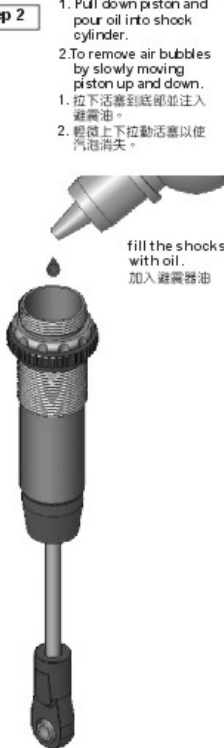
後避震器組合

* Make 2 for Shocks.
組合 2 支避震器

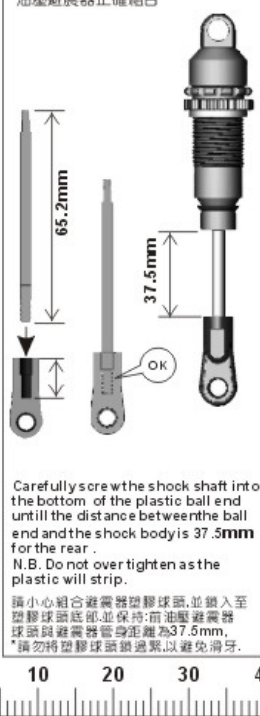
Step 1



Step 2



CORRECT SHOCK ASSEMBLY

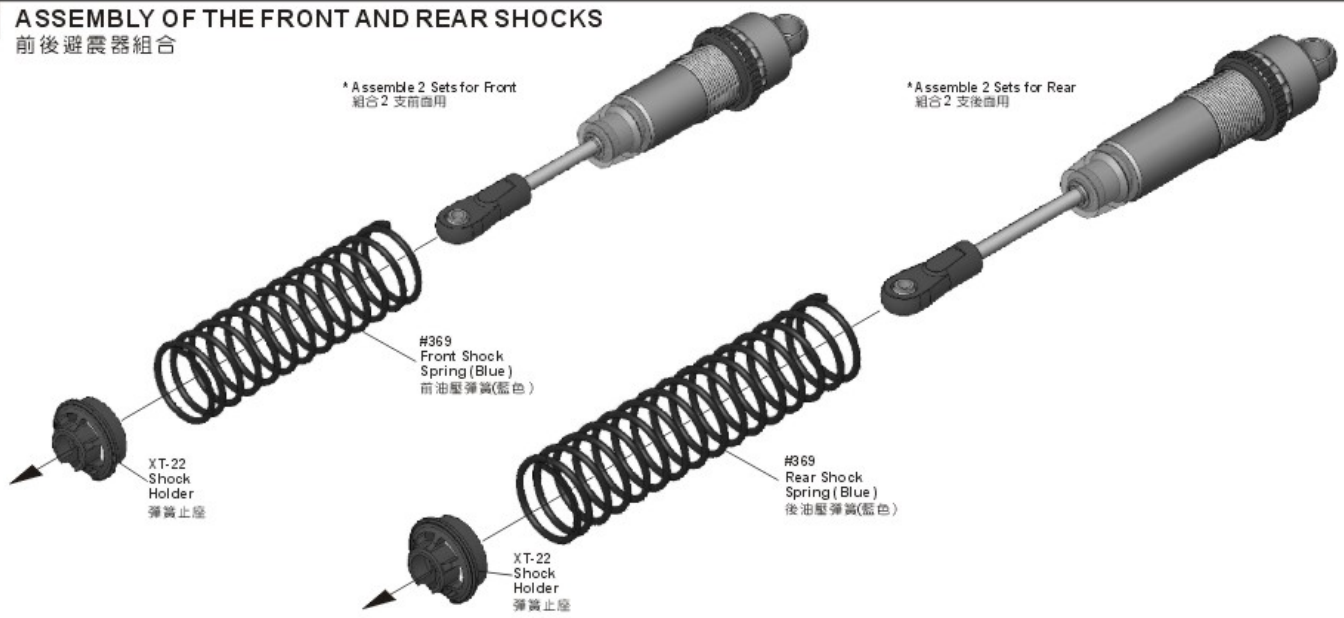


47 ASSEMBLY OF THE FRONT AND REAR SHOCKS

前後避震器組合

* Assemble 2 Sets for Front
組合 2 支前自用

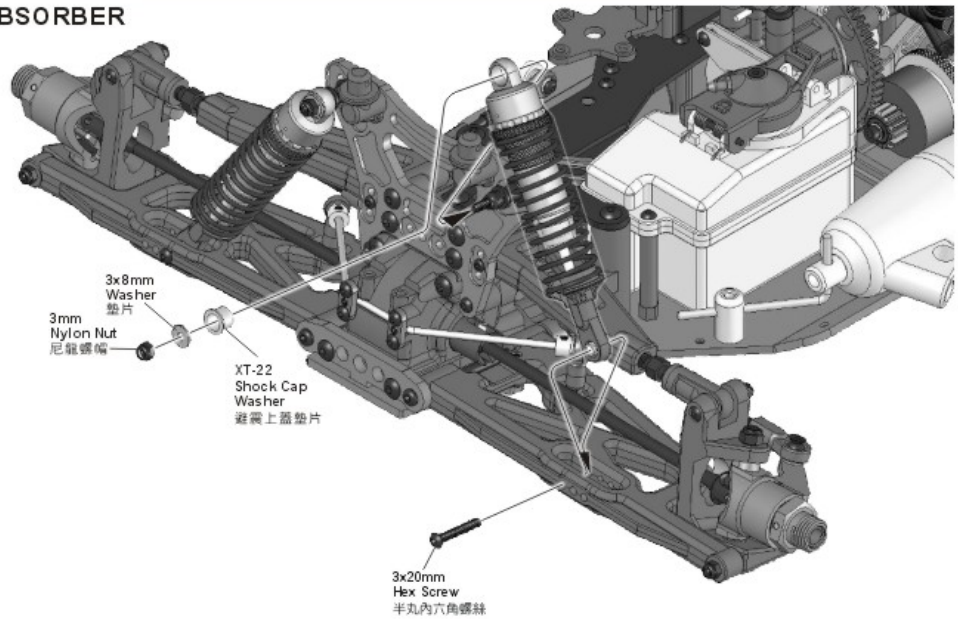
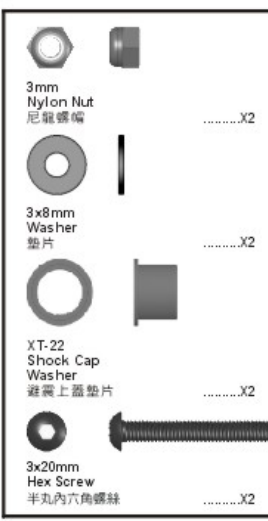
* Assemble 2 Sets for Rear
組合 2 支後自用



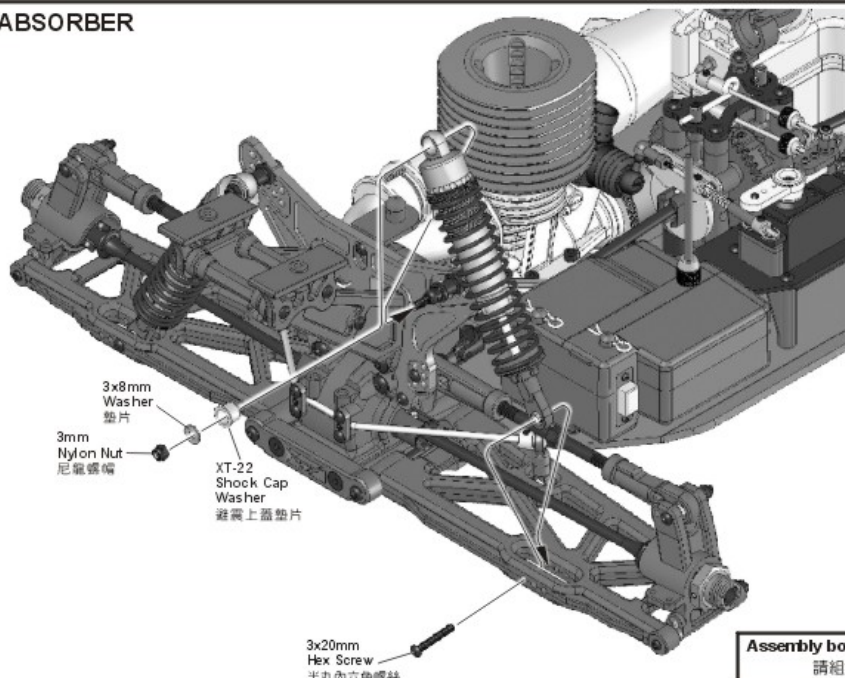
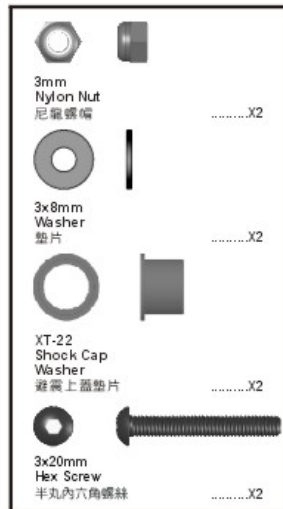
48 ASSEMBLY OF THE FRONT SHOCK ABSORBER

前避震器與油壓架組合

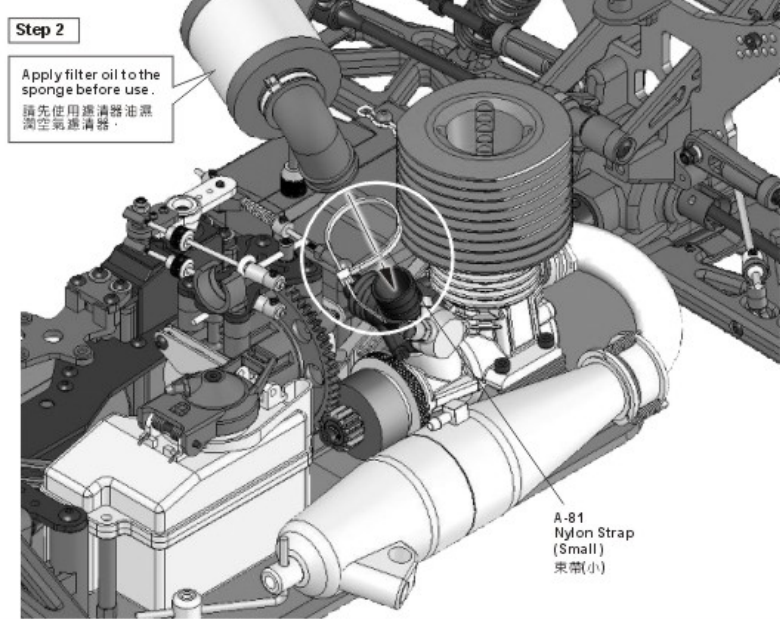
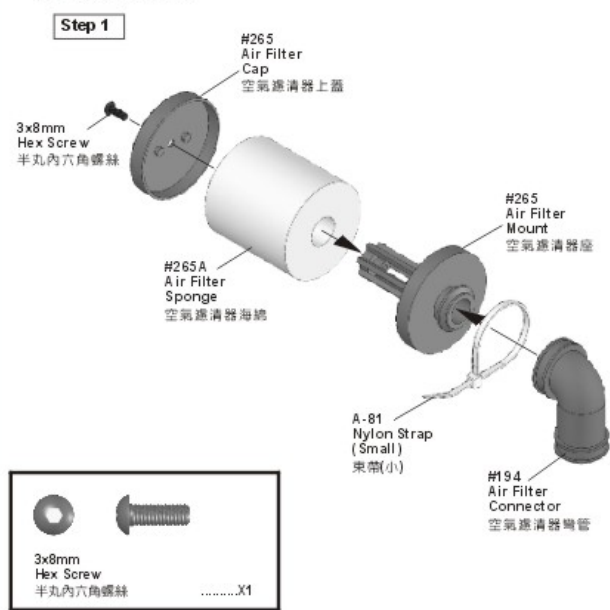
Assembly both right and left side.
請組合左 / 右兩側



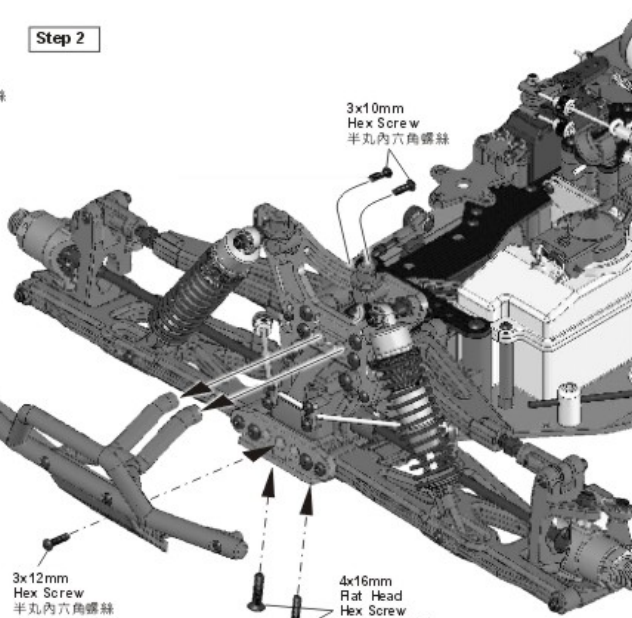
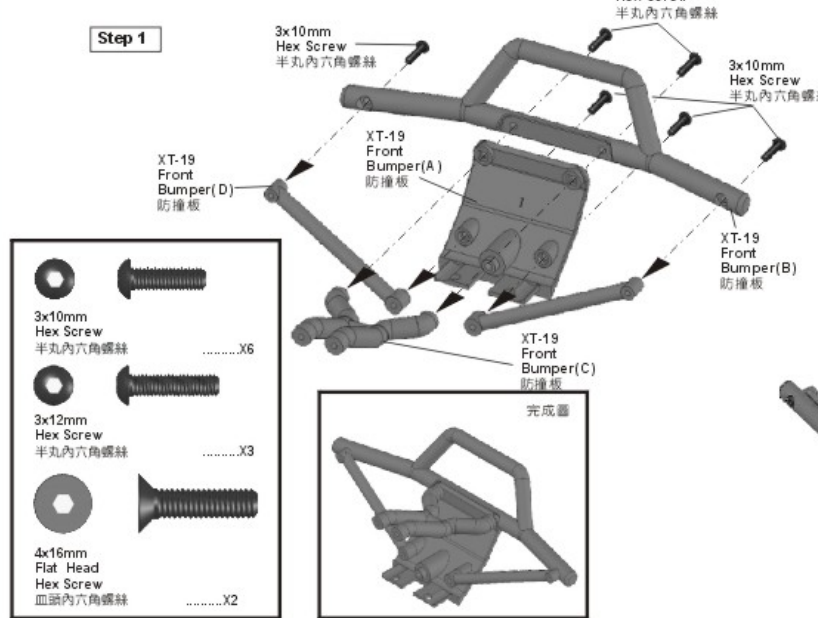
49 ASSEMBLY OF THE REAR SHOCK ABSORBER 後避震器與油壓架組合



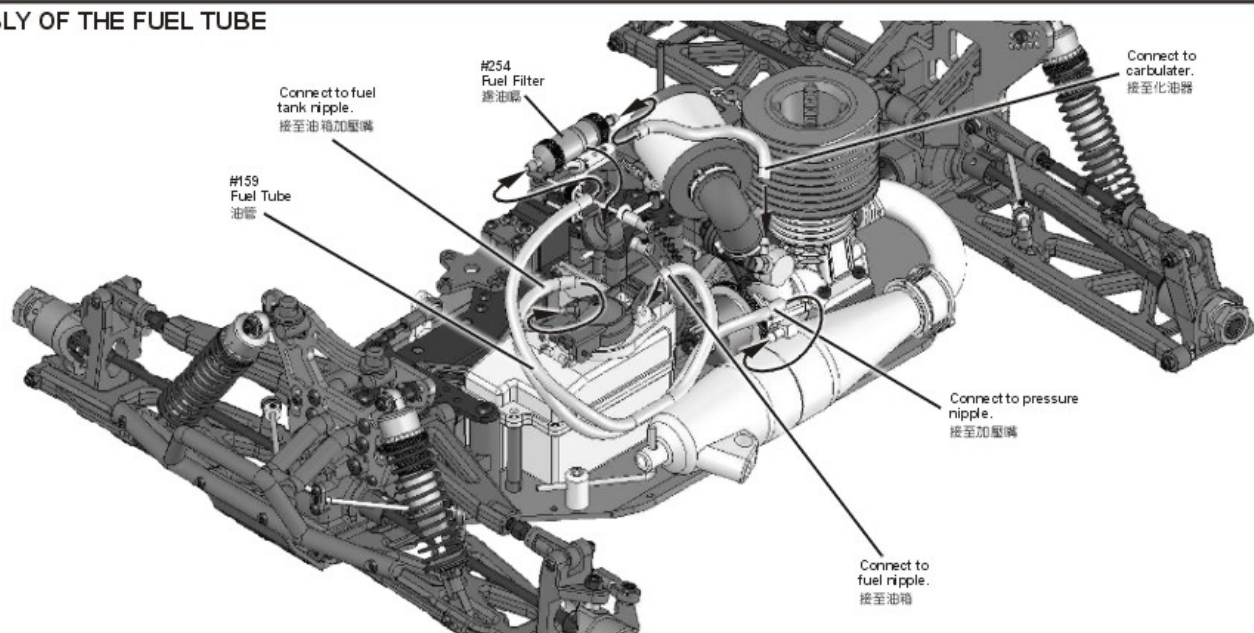
50 ASSEMBLY OF THE AIR FILTER 空氣濾清器組合



51 ASSEMBLY OF THE FRONT BUMPER 前防撞板組合



52 ASSEMBLY OF THE FUEL TUBE 油管組合



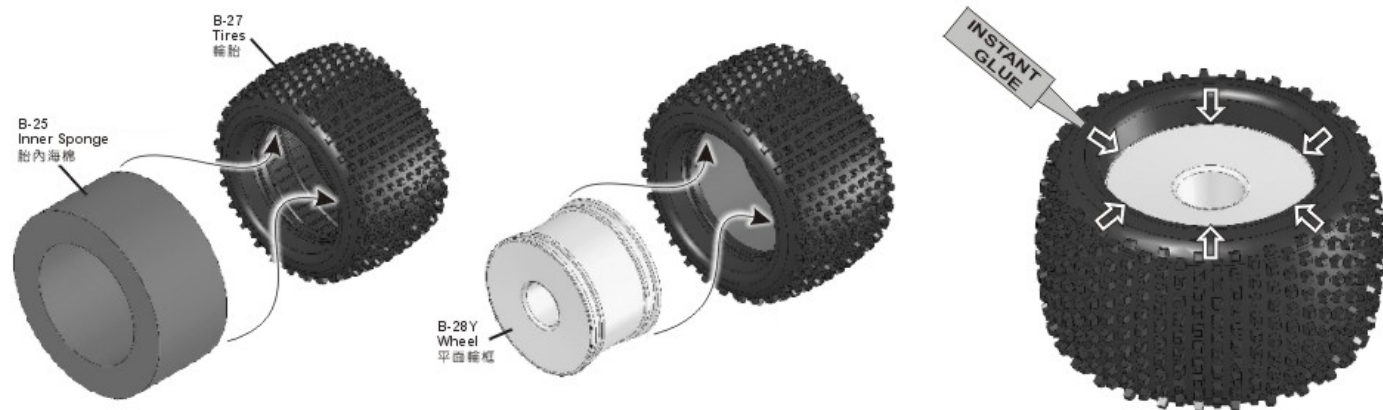
53 ASSEMBLY OF THE TIRES AND WHEELS 輪胎與輪圈組合

Step 1

Step 2

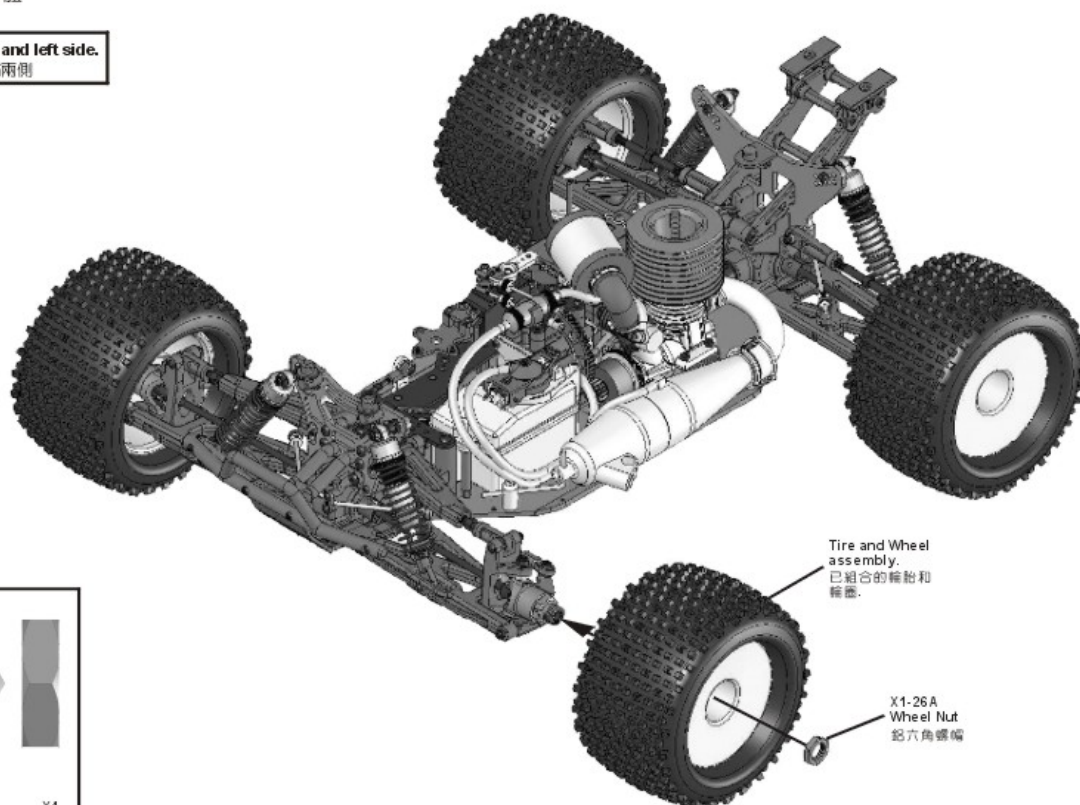
Step 3

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



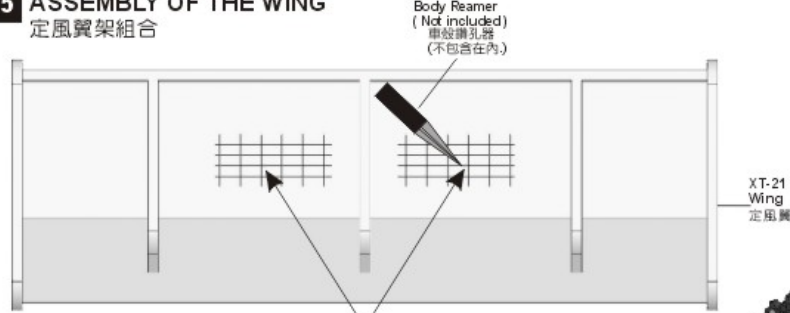
54 ASSEMBLY OF THE TIRE ONTO FRONT KNUCKLE AND REAR HUB 安裝輪胎至車體

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

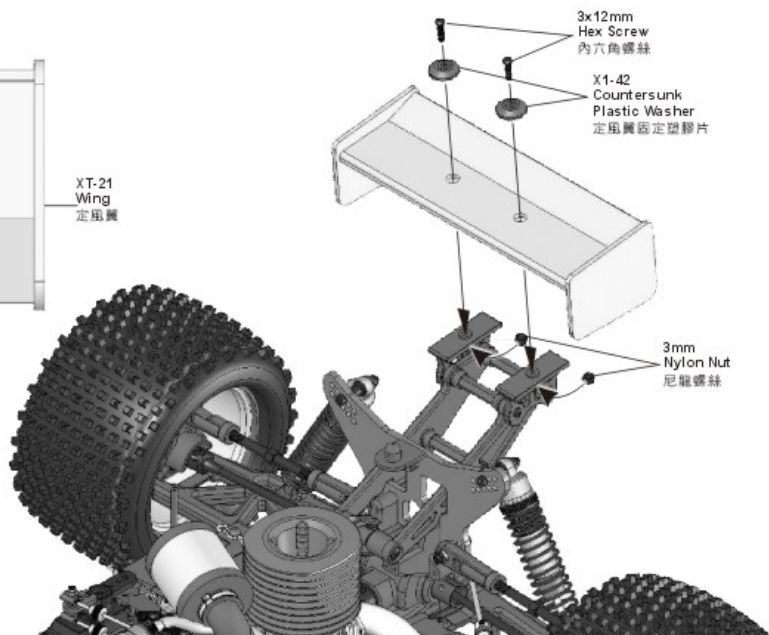


X1-26A Wheel Nut
鋁六角螺帽X4

55 ASSEMBLY OF THE WING 定風翼架組合

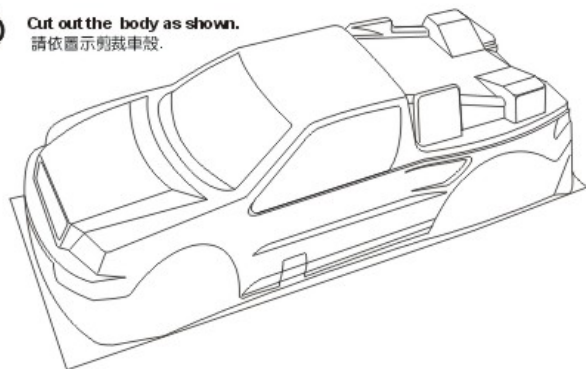


Drill two 7mm holes for mounting.
在標示位置使用鑽孔器鑽出7mm孔。

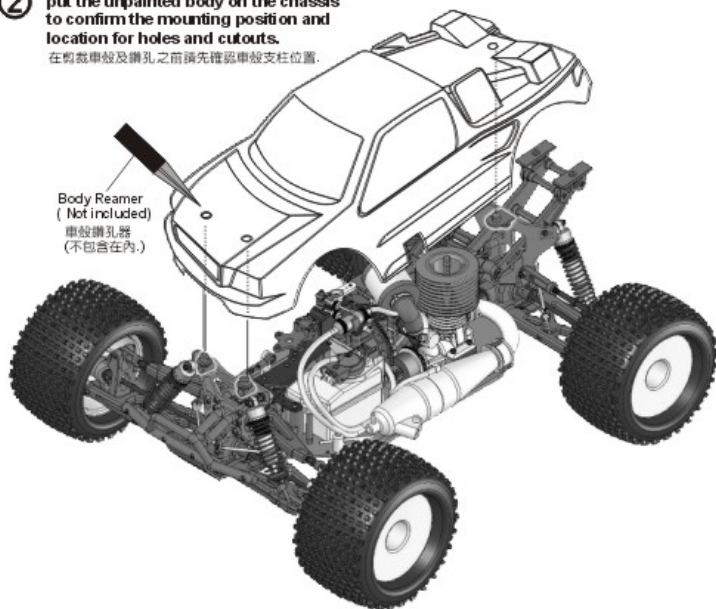


56 CUTTING OUT THE BODY AND PAINTING

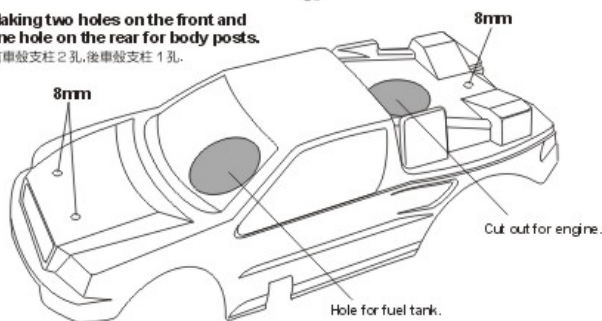
- ① Cut out the body as shown.
請依標示剪裁車殼。



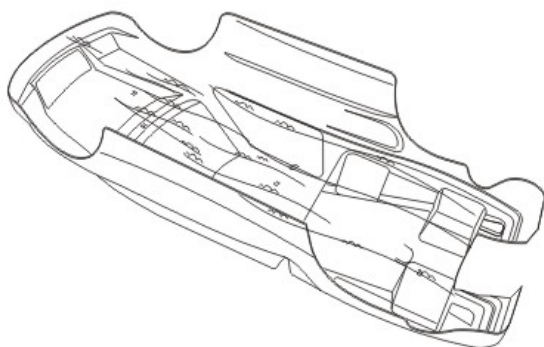
- ② Before cutting and making holes on the body, put the unpainted body on the chassis to confirm the mounting position and location for holes and cutouts.
在剪裁車殼及鑽孔之前請先確認車殼支柱位置。



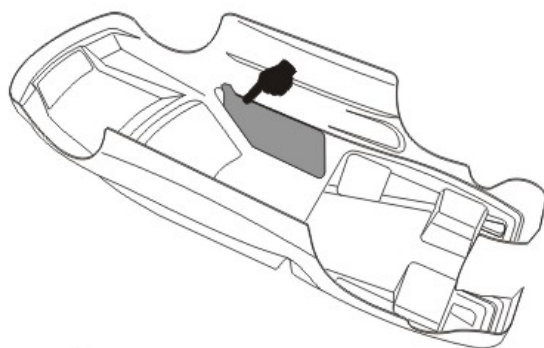
- ③ Making two holes on the front and one hole on the rear for body posts.
前車殼支柱 2 孔, 後車殼支柱 1 孔。



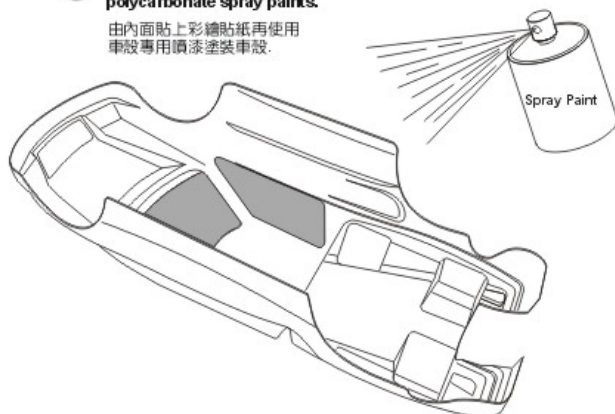
- ④ Use a neutral detergent to remove any dirt and oil.
使用清潔劑清洗車殼內面。

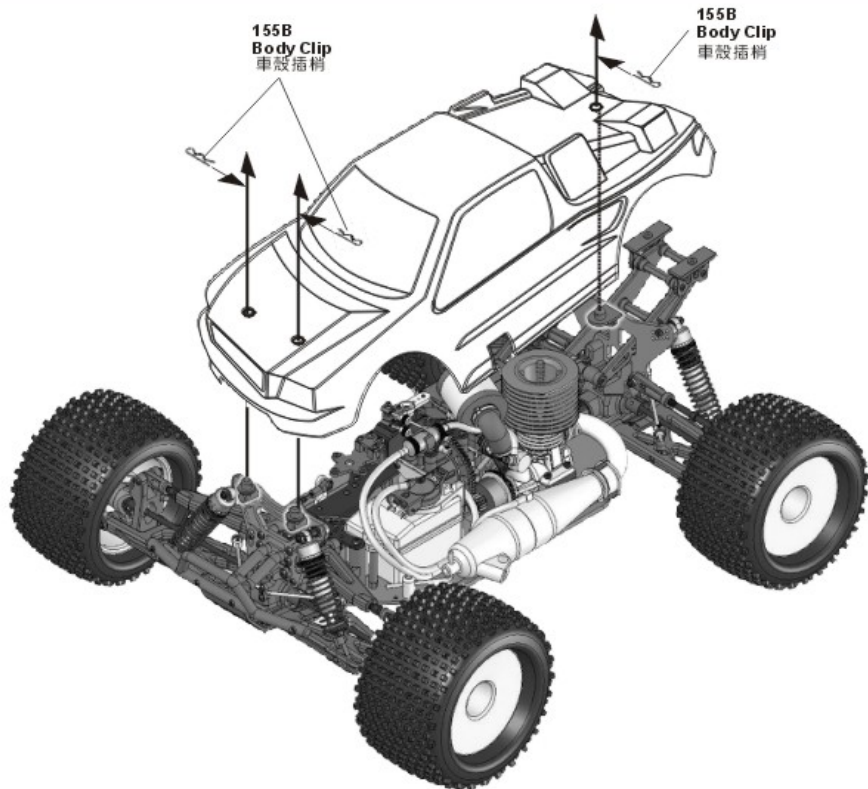


- ⑤ Mask the windows from the inside with masking tape.
使用車窗覆蓋紙由內面貼上車窗部份。



- ⑥ 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。





58 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.
5. After the engine be started, remove the 1.2V glow plug starter.

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

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

* 請依照引擎製造商的說明書以調整及保養引擎。

12V Starter and Starter Ring (Not Included)

12V起動器(不包含在內)

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)

Glow Plug (Not Included)

火星塞(不包含在內)



Normal Plug
普通火星塞

Turbo Plug
Turbo火星塞

There is 2 types of glowplug available "NORMAL or Turbo" depending of the type of the engine.

請依使用的引擎選擇普通火星塞或 Turbo火星塞。

1.2V Glow Plug Igniter (Not Included)

1.2V點火電夾(另購)

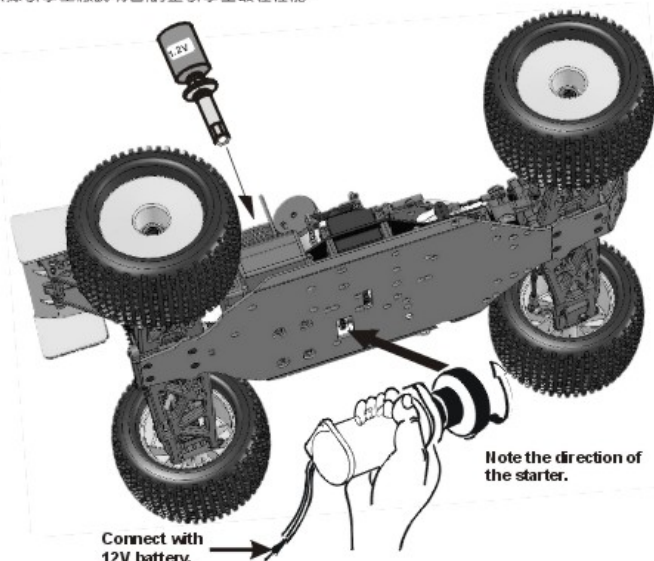


1.2V
Glow Plug
Igniter
1.2V點火電夾
(另購)

Turbo
火星塞

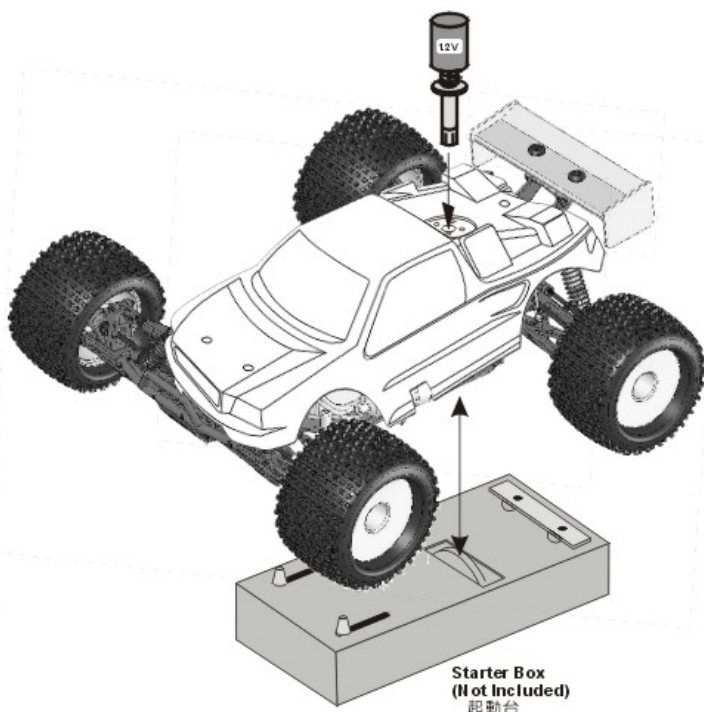
*To start the car, attach a glow plug igniter to the glow plug, and use either an electric starter or starter box applied to the flywheel exposed through the chassis.

起動引擎請使用動台及火星塞點火電夾。將底座下方引擎飛輪對準起動台膠輪以起動引擎。依據引擎工廠說明書, 調整引擎至最佳性能。



Connect with
12V battery.

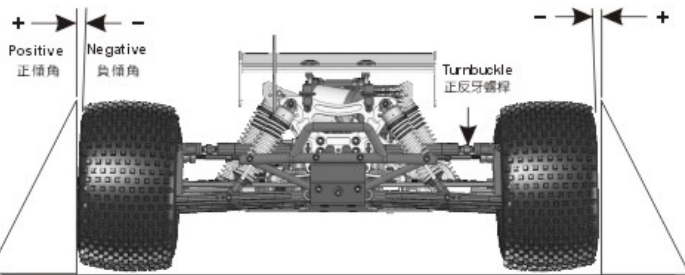
Note the direction of
the starter.



Starter Box
(Not Included)
起動台

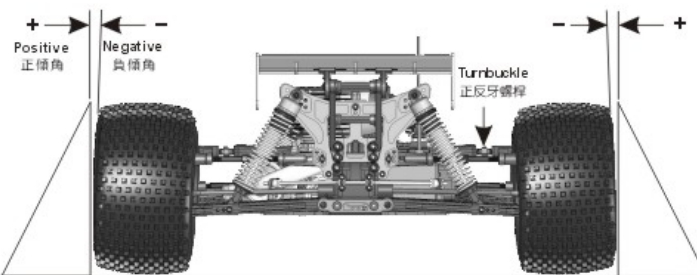
SETTING GUIDE 輪胎角度設定

FRONT CAMBER ANGLE SETTING 前胎輪傾角調整



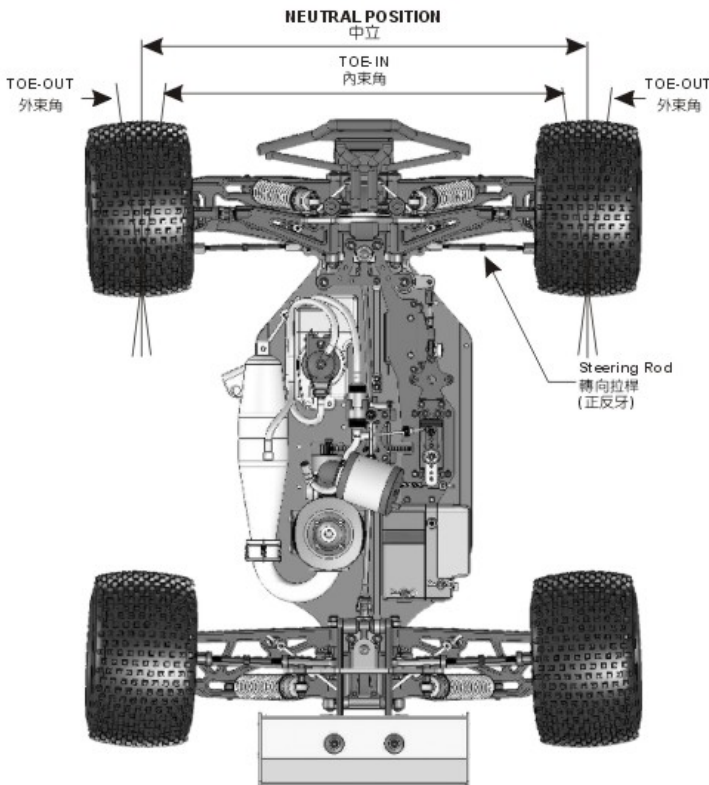
Place the model car on flat surface. Raise the chassis to its maximum clearance before the wheels leave the ground.
Adjust the length of the front and rear upper arms so that the wheels are right angle to the ground.
The camber angle adjustment can be moving the turnbuckle rod on the upper arms, clockwise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

REAR CAMBER ANGLE SETTING 後胎輪傾角調整



1. 將車體放置於平整表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

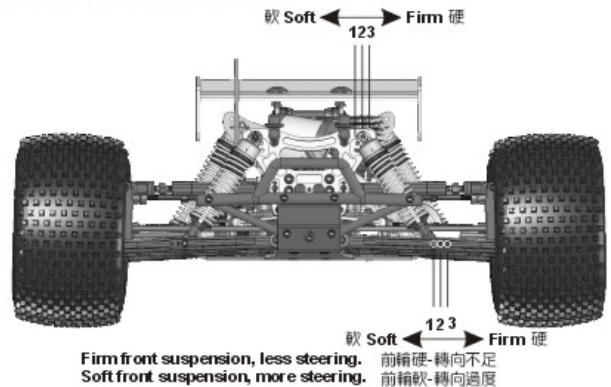


Adjust the length of front steering rod to change the toe angle.
Making the tie rod longer will make the front tires become toe-in. Response will be slower and will over steer.
Making the tie rod shorter will make the front tires become toe-out. Response will be quicker and will under steer.

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。

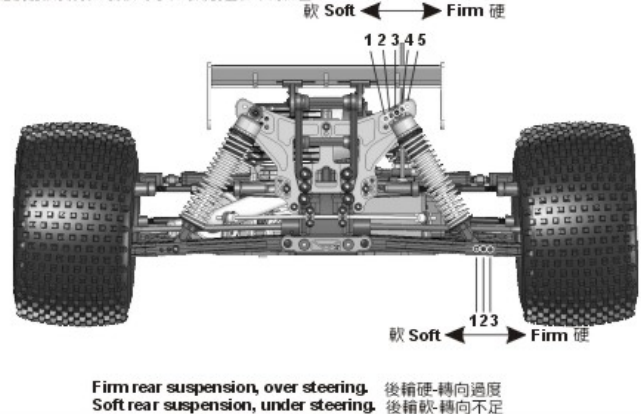
FRONT SHOCK ANGLE SETTING 前油壓避震器角度調整

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彈軟變化。
前油壓避震器位置愈往車體中心, 懸吊反應變軟, 後輪懸吊系統軟硬不同, 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。



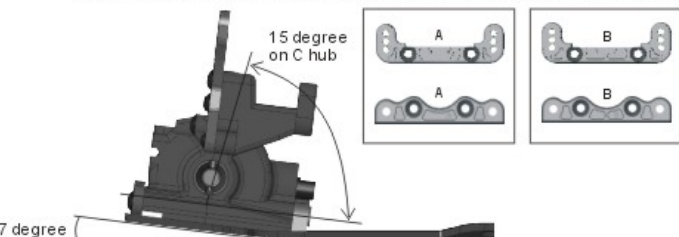
REAR SHOCK ANGLE SETTING 後油壓避震器角度調整

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彈軟變化。
後油壓避震器位置愈往車體中心, 懸吊反應變軟, 後輪懸吊系統軟硬不同, 會產生不同握地力特性。
油壓避震器按裝孔位, 請依場地不同而調整在不同位置。



CASTER ANGLE

Adjust the front caster angle by changing the arm block "A" or "B" on the front lower arms.
After you set the caster angle, you will also need to adjust the front upper arm position.
The final caster also depends on the kick-up setting.
Example: 15 degree caster on C-hub + 7 degree kick-up + "A" lower arm block = 22 degree final caster.
15 degree caster on C-hub + 7 degree kick-up + "B" lower arm block = 20 degree final caster



Caster angle	Characteristics
Less caster	Increases off-power steering into a corner. Decreases on-power steering out of and in a corner. Decreases straight-line stability.
More caster	Decreases off-power steering into a corner. Increases on-power steering out of and in a corner. Increases straight-line stability.

REAR WHEELBASE



Adjust the wheelbase by using the spacers on either side of the rear uprights (at the bottom pin).
IMPORTANT! Make equal adjustments on both left and right sides of the car.

Shorter wheelbase

- less spacers in front of the rear upright.
- increases rearward weight transfer during acceleration.
- increases on-power traction.
- quicker off-power steering into corners.
- slight tendency to push on-power at corner exit.
- increases steering response.
- better on tighter, more technical tracks.

Longer wheelbase

- more spacers in front of the rear upright.
- decreases off-power steering into sharp corners.
- increases stability.
- slower initial steering reaction (off-power).
- improves on-power steering at corner exit.
- better handling over bumps and ruts.
- better on more open tracks with high-speed corners.



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鴻諾企業有限公司
HONG NOR ENTERPRISE CO., LTD.
5F NO.181-2, CHUNG HSING ROAD,
HSICHIH CITY, TAIPEI HSIEN,
TAWAN, R.O.C.
TEL: 886 2-2694-0345
FAX: 886 2-2694-1632
www.hongnor.com