

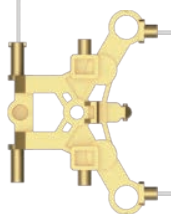
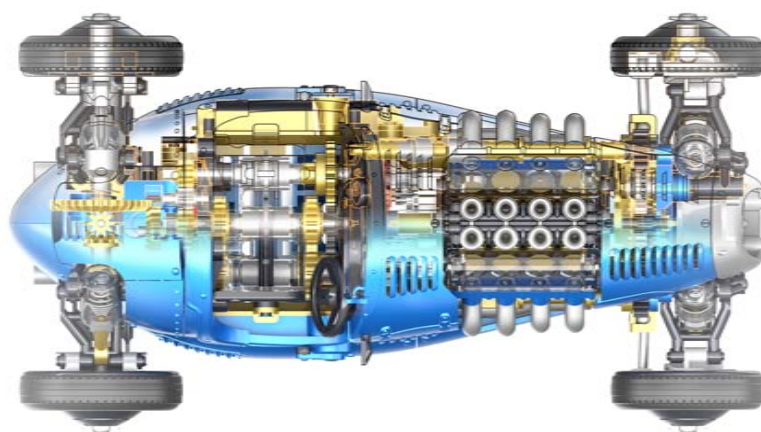
GE-733



科學玩具

MAKING • LEARNING • PLAYING

復古賽車



Assembly & Instruction Manual

組裝說明手冊

手作樂趣 • 科學玩具

MAKING LEARNING PLAYING

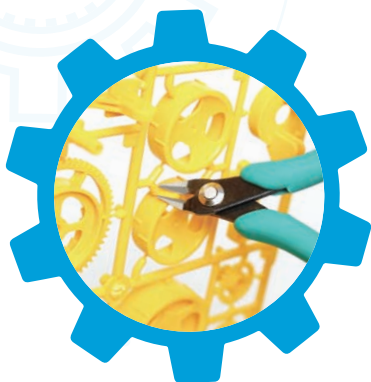
台灣製造 • 專利研發 • 無毒環保

科學玩具行銷全球 20 餘國，擁有歐、美、日、澳、中國、台灣…等多國專利註冊，符合世界級的STEM教育專業組織STEM.org的認證、台灣ST玩具、中國 CCC 等各國安全認證，專業研發獲得國際多項殊榮。結合科學原理，DIY實做、模型美學，啟發孩童想像力與創造力，是玩具也是教具，組模型也組思緒。

三倍樂趣 創客養成推薦

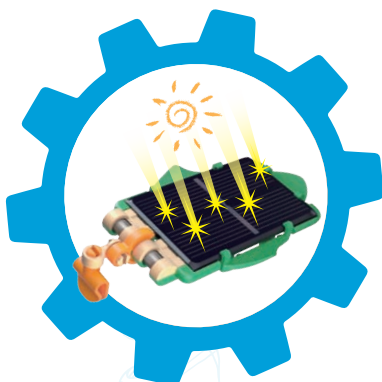


榮獲STEM.org
國際認證



⚙ 沈浸模型組裝

⚙ 科學動力應用



⚙ AI邏輯探索

⚙ 科學動力



🔋 電池動力



💖 療癒小寵



💻 教學編程



🏆 競技遊戲

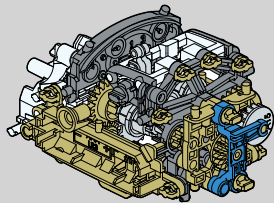


☆ 模型收藏



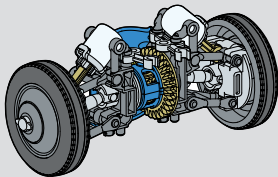
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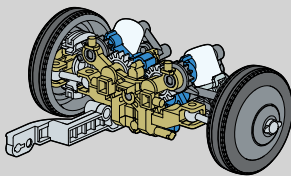
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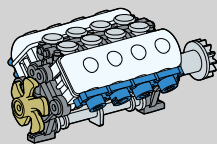
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引擎組裝 Engine Assembly

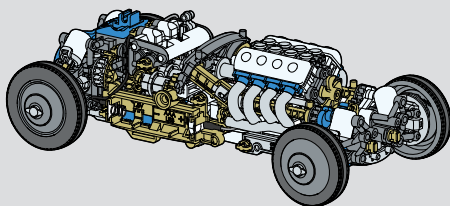


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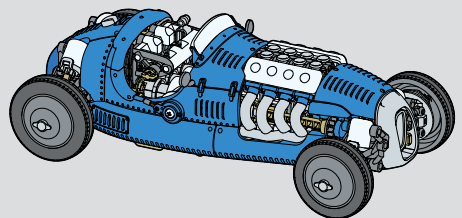
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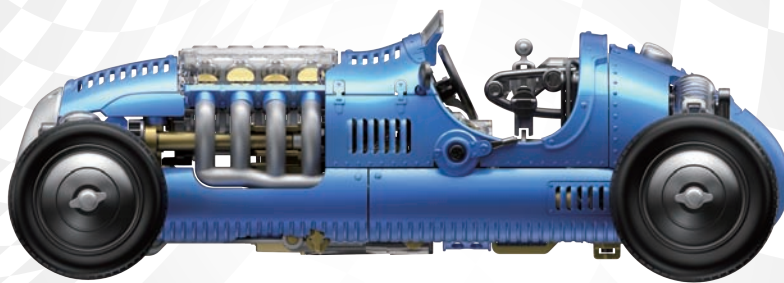
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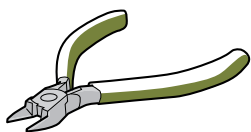
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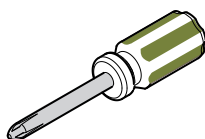
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自備工具 Tools You May Need



斜口鉗
Diagonal Cutter



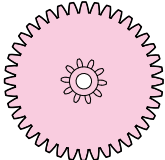
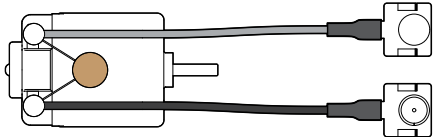
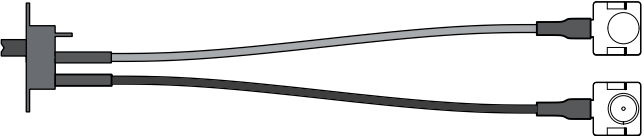
螺絲起子
Screwdriver



電池 Battery (AAA) x 2
Alkaline batteries are recommended

零件清單 Mechanical Parts List

! 部分產品有銳利邊角，組裝時請特別注意。
Product contains functional edges and sharp points.

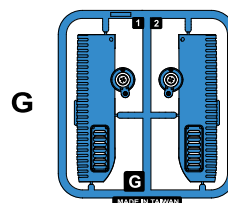
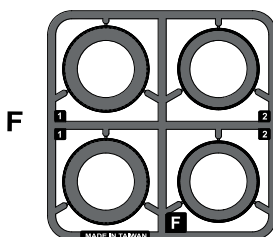
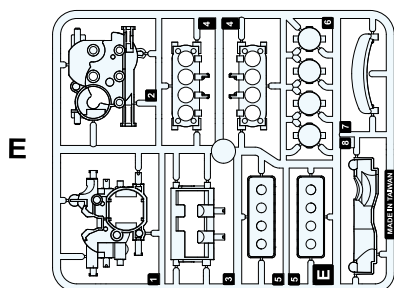
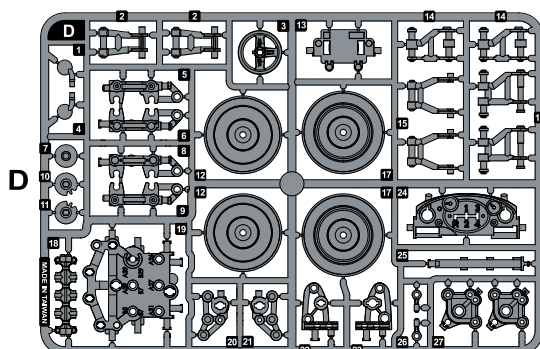
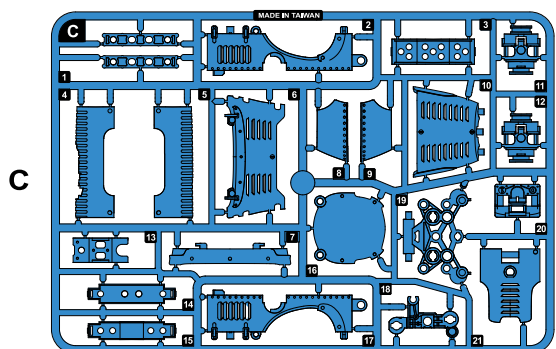
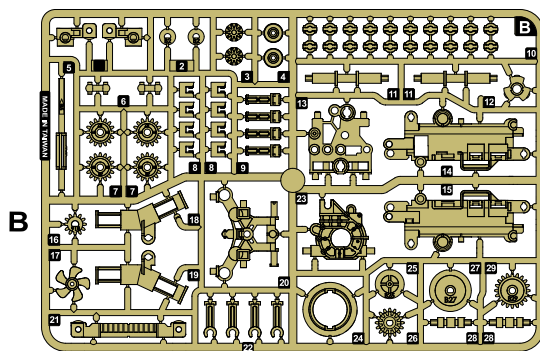
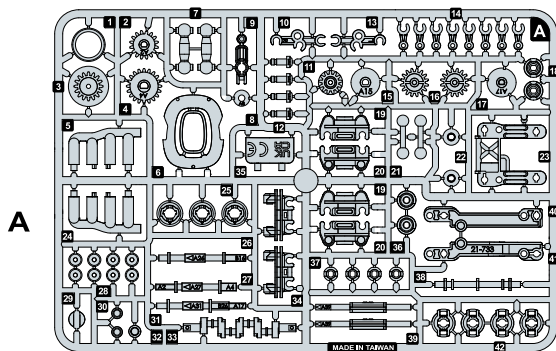
P1	小齒輪 (白) Pinion Gear (White)	P2	齒輪 (粉) Gear (Pink)	P3	彈簧 Spring
 1 pc		 2 pcs		 4 pcs	
P4	圓軸 Round Shaft	P5	附電池端子馬達 Motor with Battery Terminal		
 3 pcs		 1 pc			
P6	附電池端子開關 Switch with Battery Terminal				
 1 pc					

塑膠模型零件 Plastic Parts



請依照組裝步驟將所需的零件剪下，請勿提早剪下零件，以免混淆。

Cut the plastic parts when they are required. Do not cut them in advance.



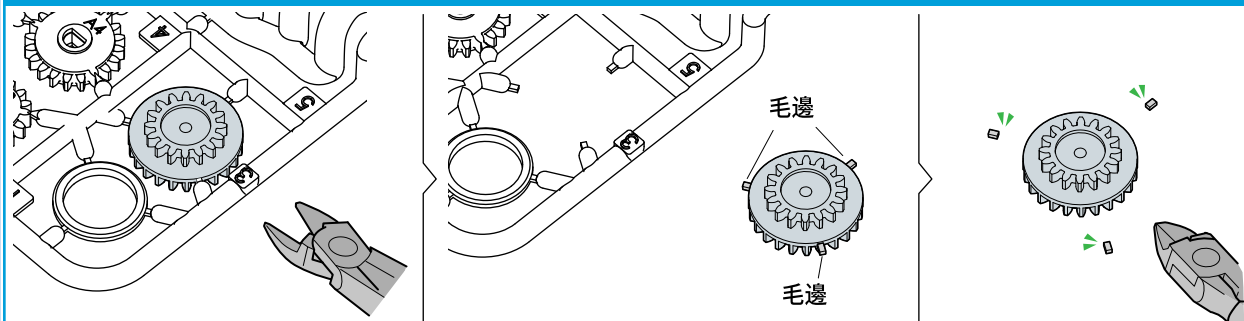
小技巧提醒 Read it before Assembly



組裝前須知 Must-know

請詳讀以下組裝小技巧 Please read through and follow the tips below before assembly.

請將毛邊修剪乾淨 Remove burrs



請勿使用以下方式 Please do not



用剪刀剪
Cut with scissors



用手擰
Twist it with your hand



用剪切後會留毛邊的手鉗
The cutter which leaves burrs



小提醒 Reminder

建議使用專業模型鉗
Suggest using model cutters



PM-200



PM-202



PM-203

oops! 剪壞了
if the part is broken

零件剪壞了 Don't worry! 進入官網頁面依流程提交補配件申請。
Free replacement service for the broken parts or accessories.



鎖緊螺絲 Fasten tapping screws



請使用相對應(尺寸相容)的螺絲起子。透過以下步驟即可鎖緊螺絲。
Use corresponding (size-compatible) screwdriver. By following steps below, you can fasten the tapping screws perfectly.

將起子對準
螺絲頂部

Put the screwdriver
towards the top of
screws.

- (1) 旋入 Screw in
- (2) 感覺壓力越來越大
Feel the tension getting higher
- (3) 繼續擰緊 Keep screwing

重複此動作直
至螺絲擰緊
Repeat until
screws are tightly
fastened.

請將螺絲全部鎖緊到底部。
若鎖得不夠牢固, 零件可能
會剝離導致產品無法動作。
Please lock screws all the way
down to the bottom. If they are
not fastened tightly enough,
parts may come off. The product
may consequently not work.



正確
Correct



錯誤
Incorrect



復古賽車

VINTAGE RACER



產品介紹 Product introduction

精密還原經典賽車的機械結構，融合工藝美感與收藏價值的復古模型。

邀請你親手打造一台由內而外細節完整的賽車，體驗深入機械核心的組裝過程。全套由233 件零件組成，完整呈現賽車內部結構與傳動配置，包含可運作的差速器、後輪驅動系統、前後懸吊與轉向機構，設計邏輯真實呈現車輛工藝。

駕駛艙可依偏好切換左駕或右駕，並搭載象徵性能精神的V8 引擎結構，由馬達與電池系統驅動。變速系統具備四前速、倒檔與空檔，完整模擬賽車傳動機制。

這不只是一件模型作品，對於重視結構細節、機械仿真與收藏價值的玩家而言，是一台值得反覆品味的復古賽車模型。

Vintage Racer precisely recreates the mechanical structure of a classic race car, combining engineering craftsmanship with refined aesthetics and collectible value.

It invites you to build a race car with complete inside-out detailing, offering an assembly experience that goes deep into the heart of mechanical design. The set consists of 233 precision parts, faithfully presenting the vehicle's internal structure and drivetrain configuration, including a functional differential, rear-wheel drive system, front and rear suspension, and a fully linked steering mechanism—each designed to reflect authentic automotive engineering.

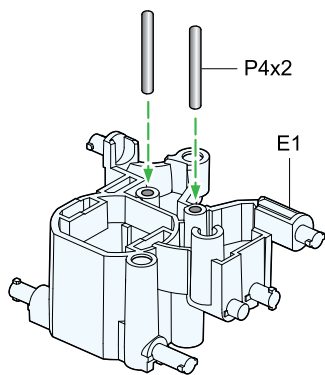
The cockpit can be configured for left-hand or right-hand drive, and features a performance-inspired V8 engine structure powered by a motor and battery system. The transmission includes four forward gears, reverse, and neutral, accurately simulating real race car drivetrain mechanics.

More than just a model, Vintage Racer is a piece to be examined and appreciated—crafted for collectors who value structural detail, mechanical realism, and lasting collectible appeal.

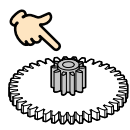
讓我們開始組裝吧!
Let's start assembling~

Pro'sKit® 手排變速箱組裝 Manual Transmission Assembly

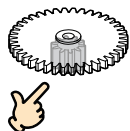
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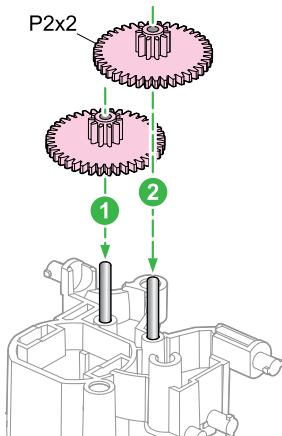
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正確 Correct



✗
錯誤 Incorrect



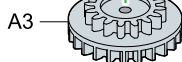
P2x2



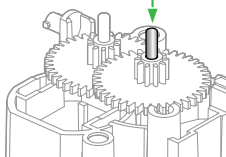
! 請將毛邊剪乾淨。
Cut off the burrs
before assembly.



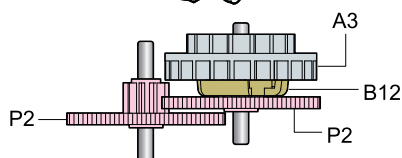
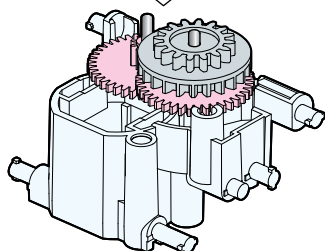
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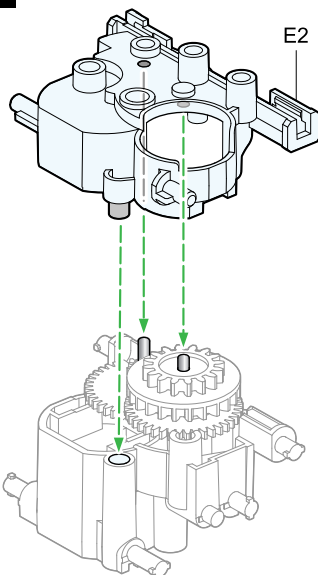
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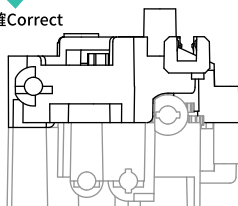
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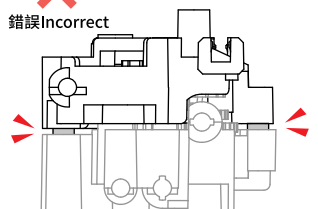
2



✓
正確 Correct

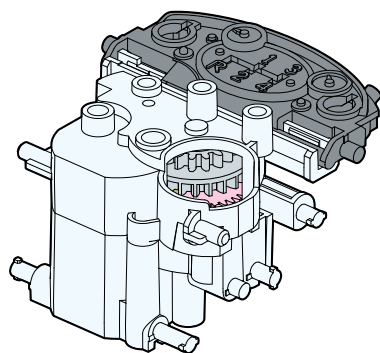
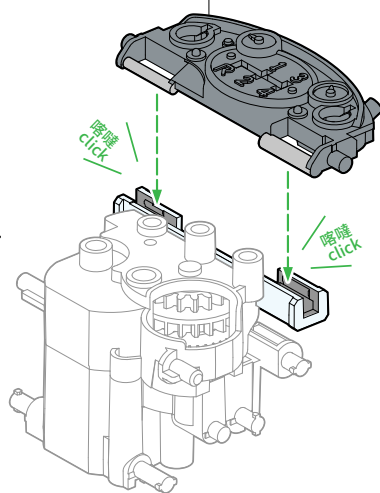


✗
錯誤 Incorrect



E2

D24

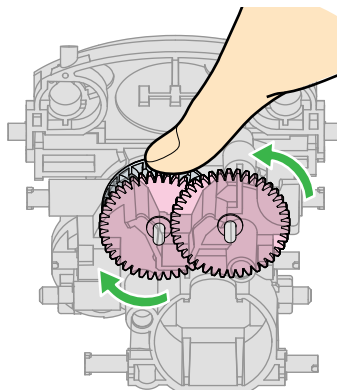


馬達齒輪箱完成
Motor Gearbox

檢查點 Check Point

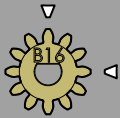


請轉動齒輪，確保它能順暢旋轉。如果無法轉動，請回到步驟 1。
Turn the gear. Make sure it spins smoothly. If it doesn't move, go back to Step 1.



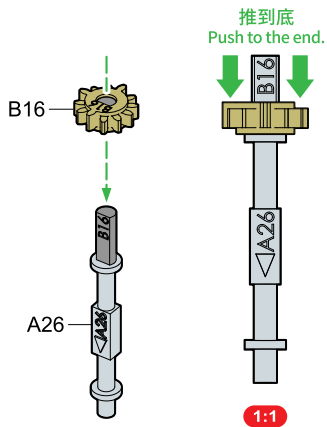
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! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.

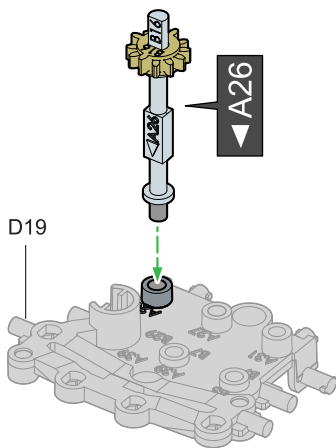


B16

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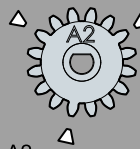
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D19

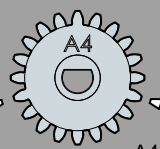
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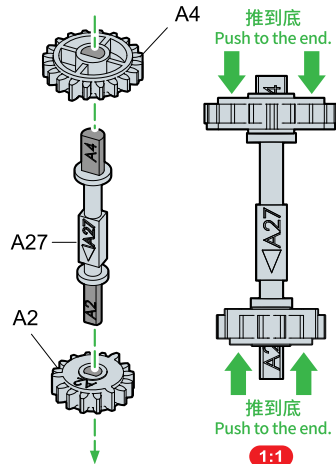


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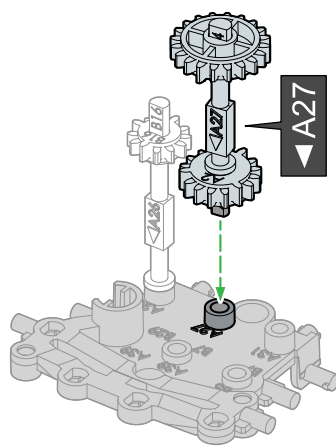
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A4

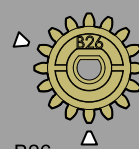


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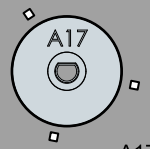
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Cut off the burrs before assembly.

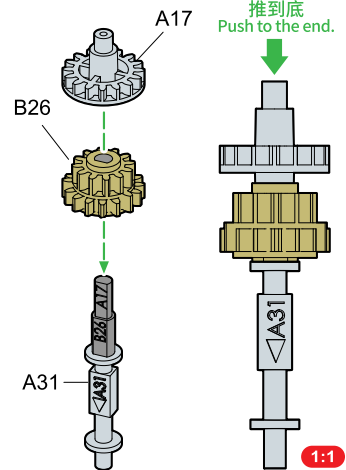


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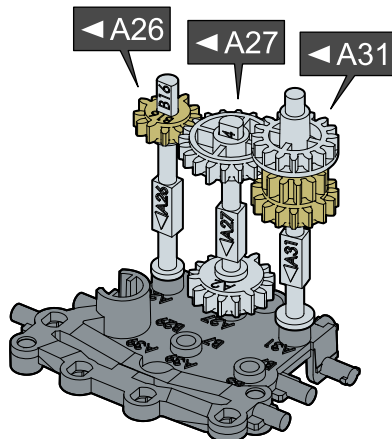
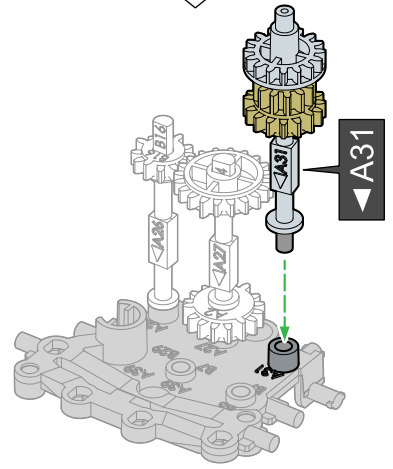
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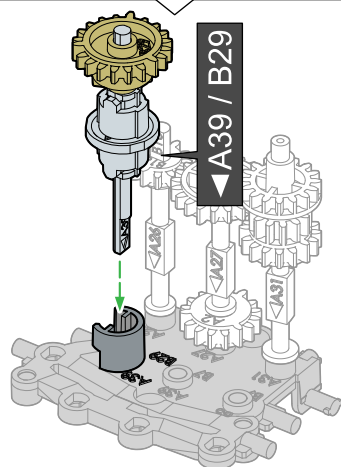
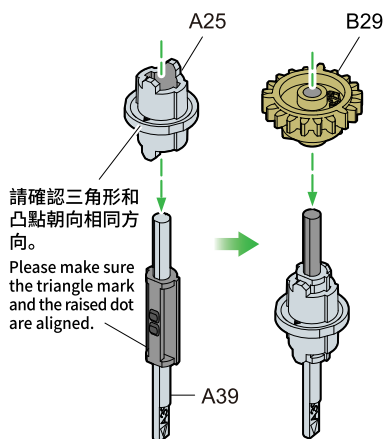
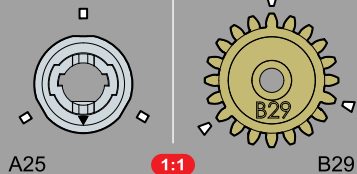


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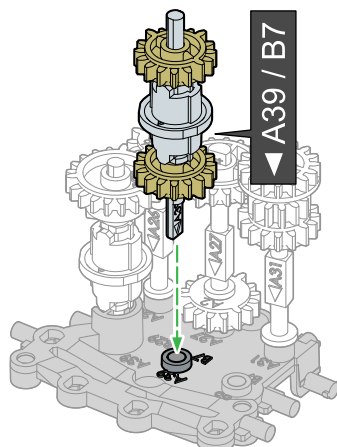
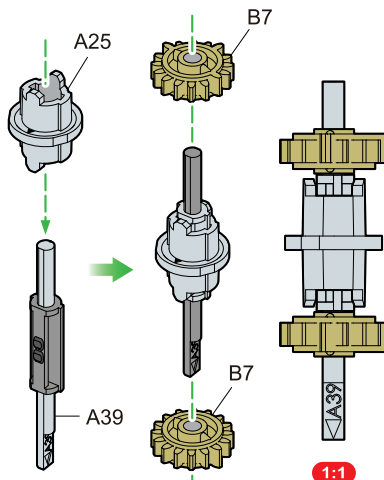
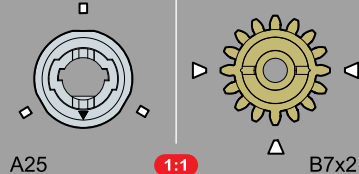
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! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.



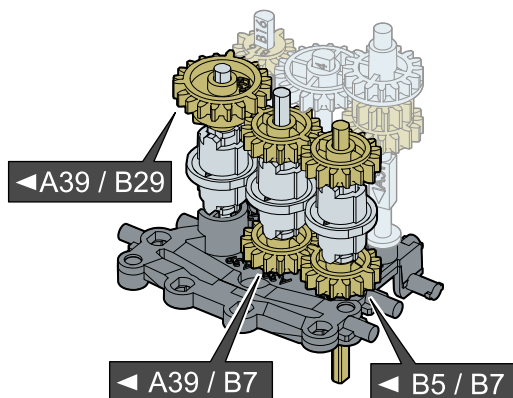
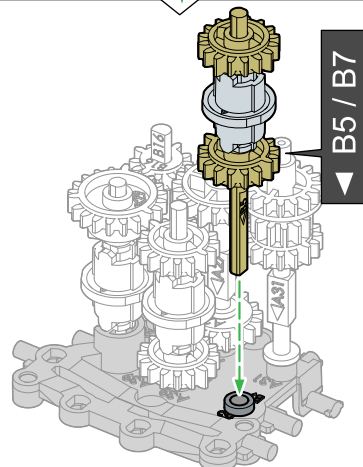
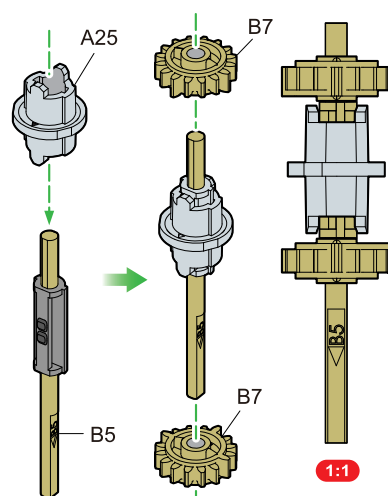
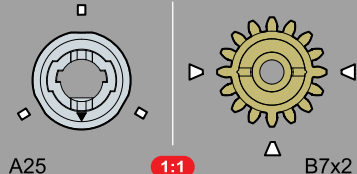
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! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.

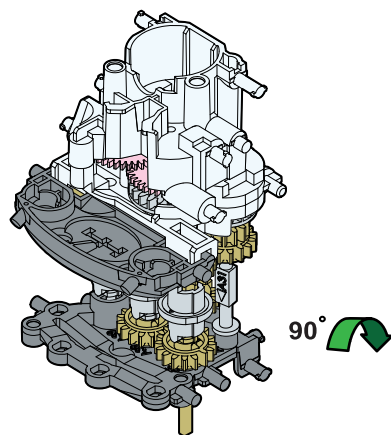
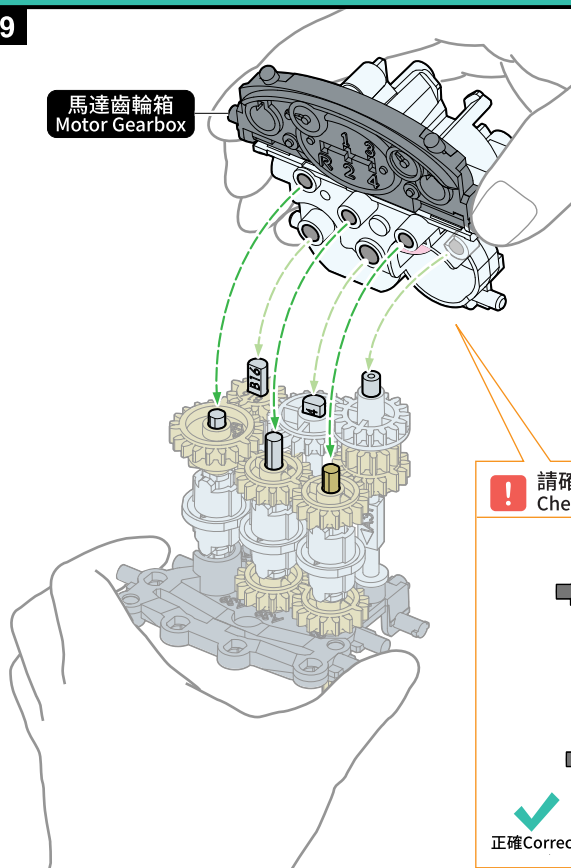


8

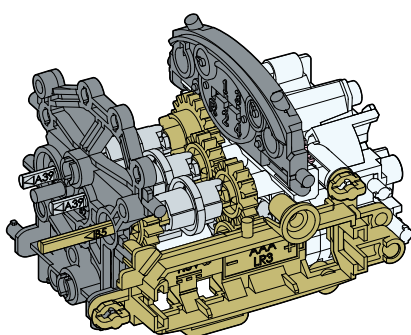
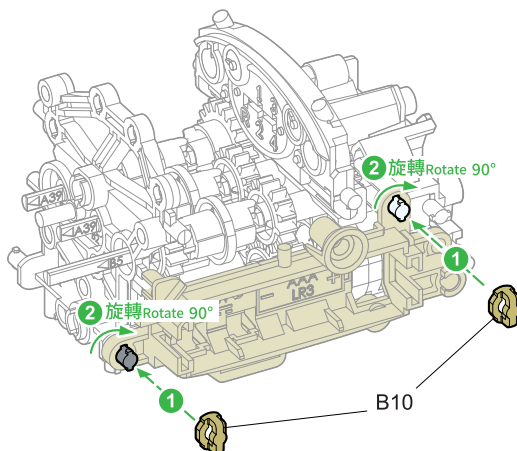
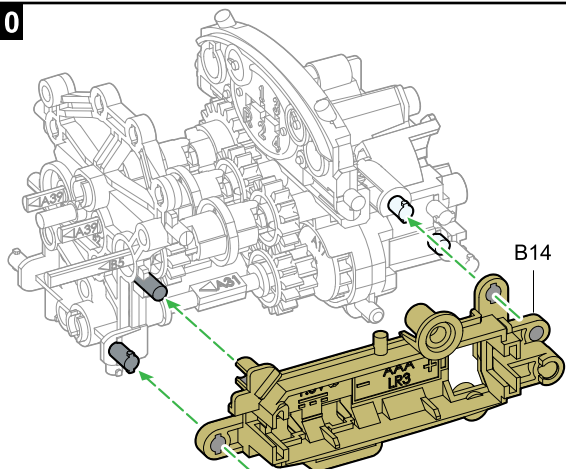
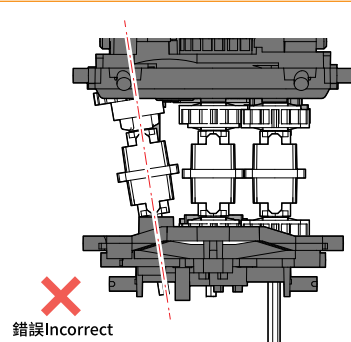
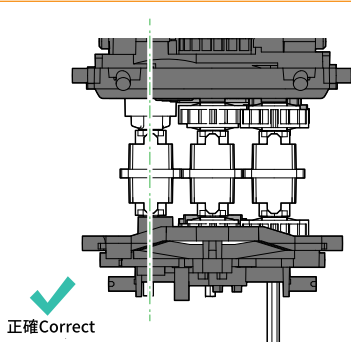
! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.



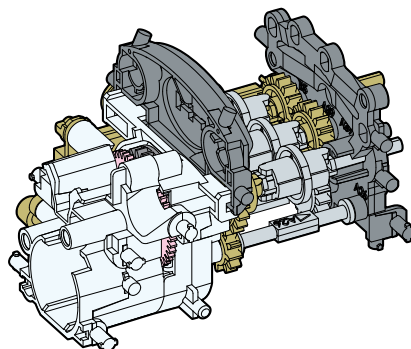
馬達齒輪箱
Motor Gearbox



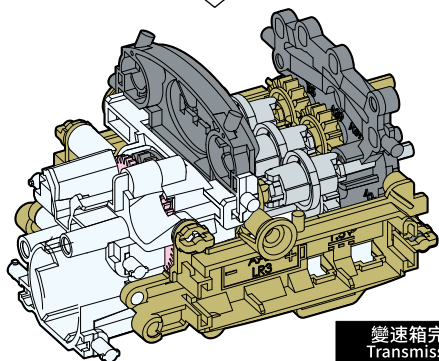
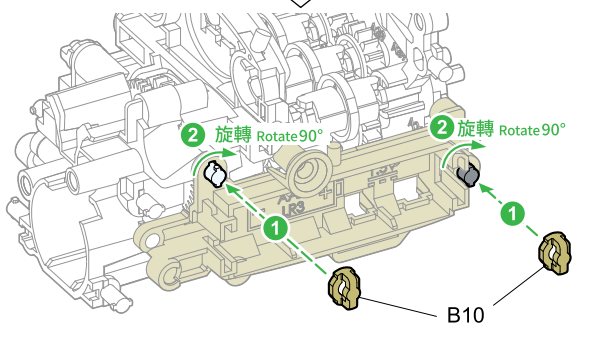
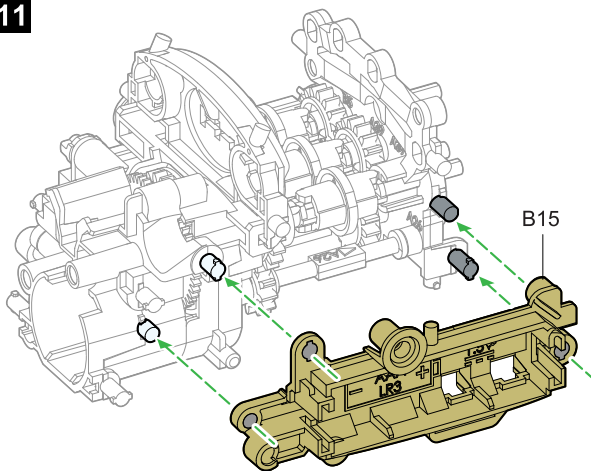
! 請確保6根軸都確實推入對應的6個孔內。
Check that all 6 shafts are pushed into the 6 holes.



180°



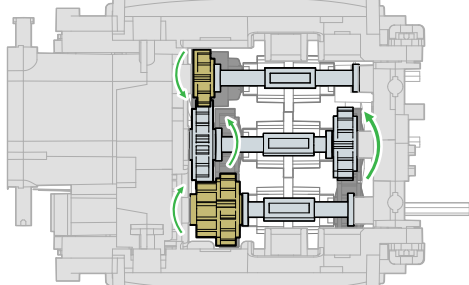
11



檢查點 Check Point



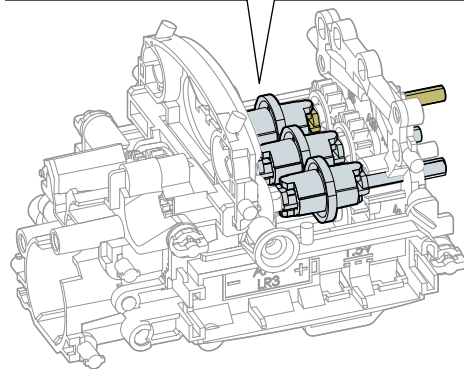
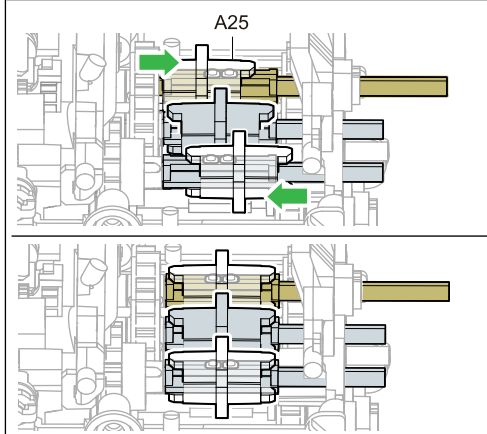
請轉動齒輪，確認它能順暢旋轉。如果無法轉動，請回到步驟 3。
Turn the gear. Make sure it spins smoothly. If it doesn't move, go back to Step 3.



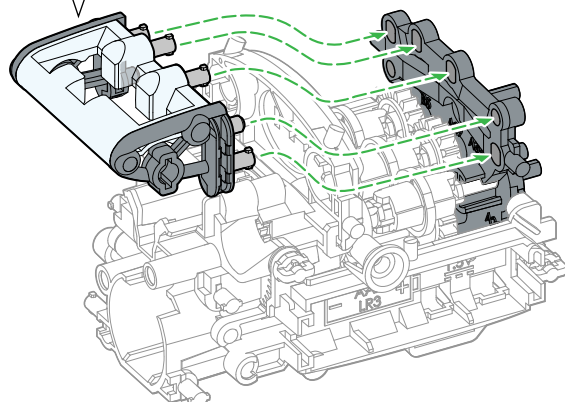
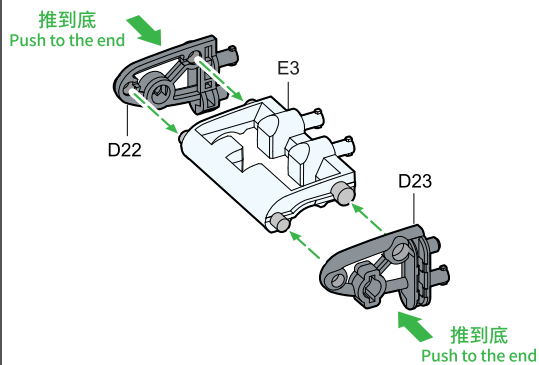
底視圖 Bottom View

12

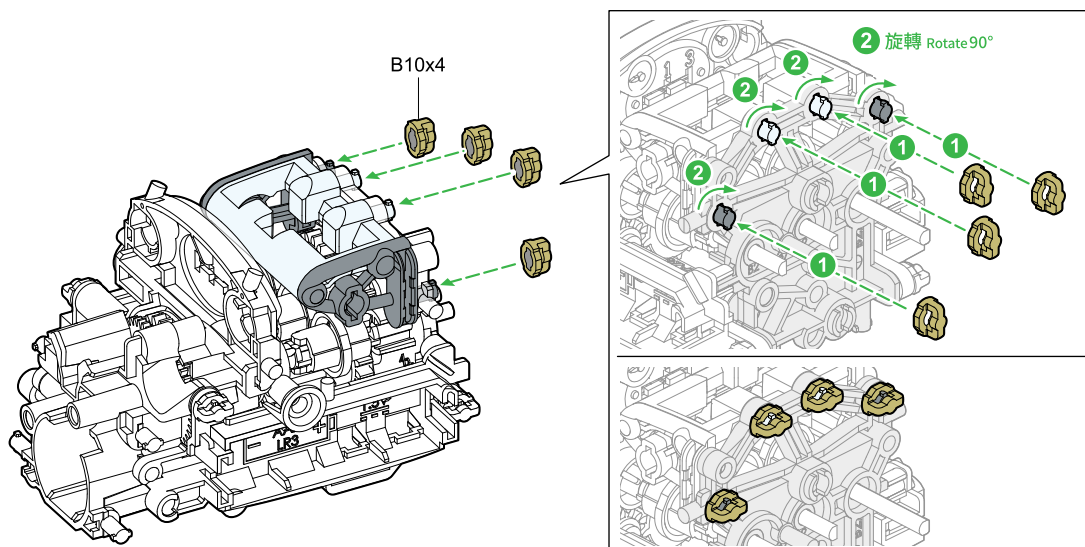
請確保所有 A25 (同步器) 零件已正確置於中間位置。
Make sure all A25 (synchronizer) are in the middle position.



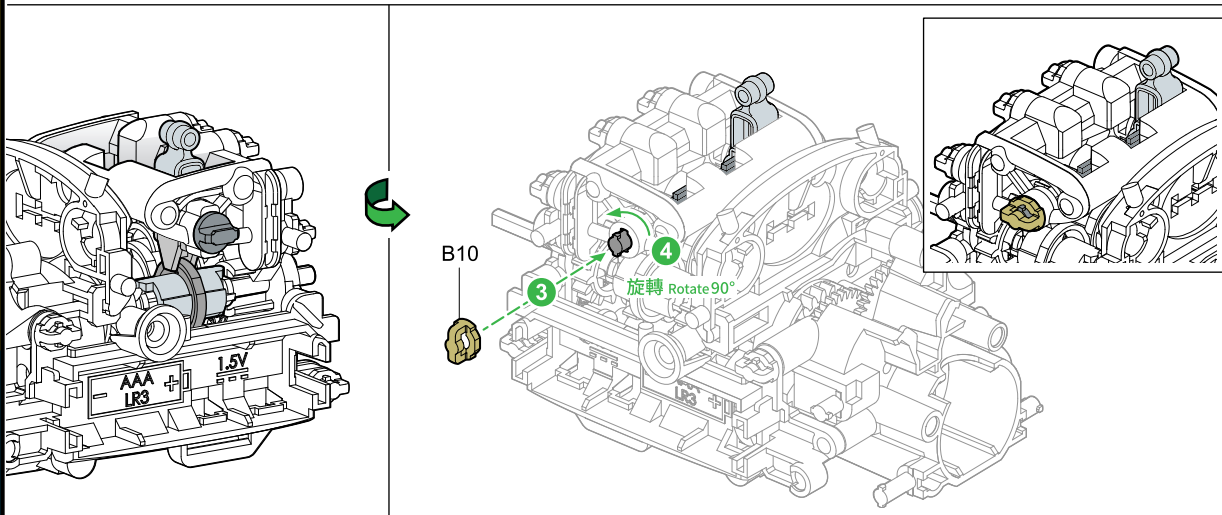
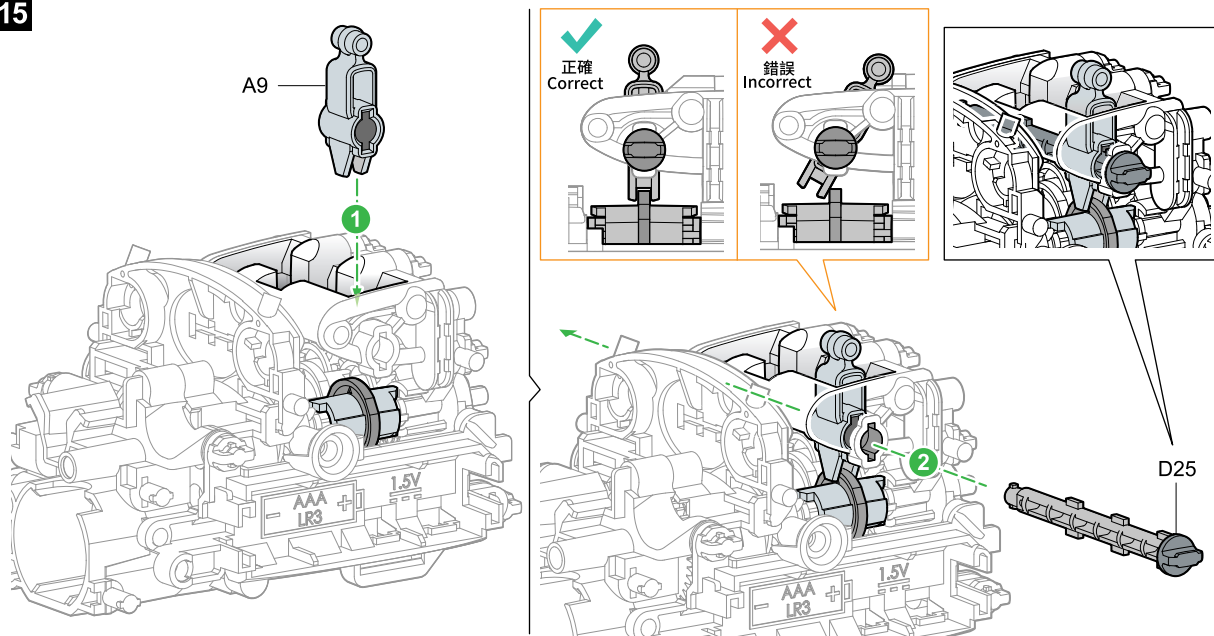
13



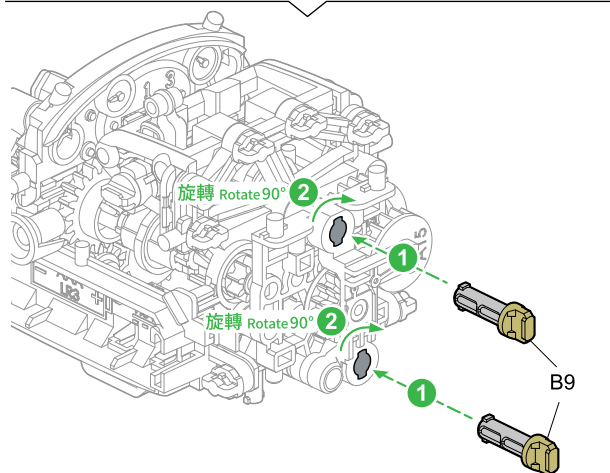
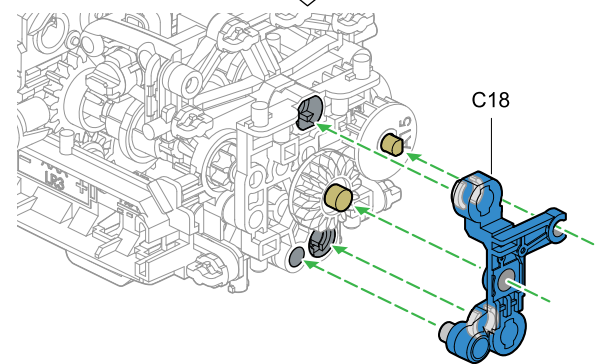
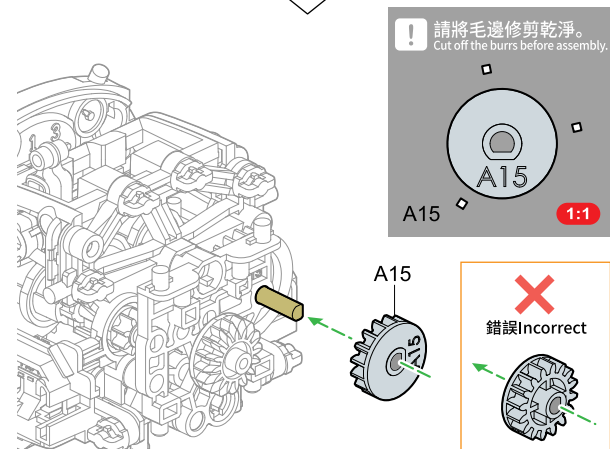
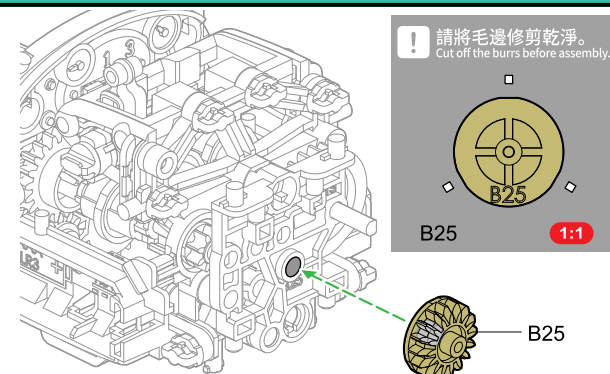
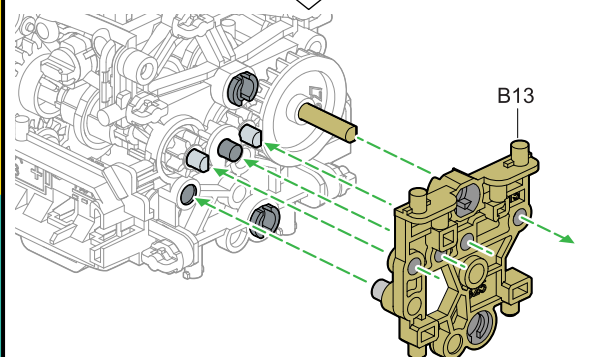
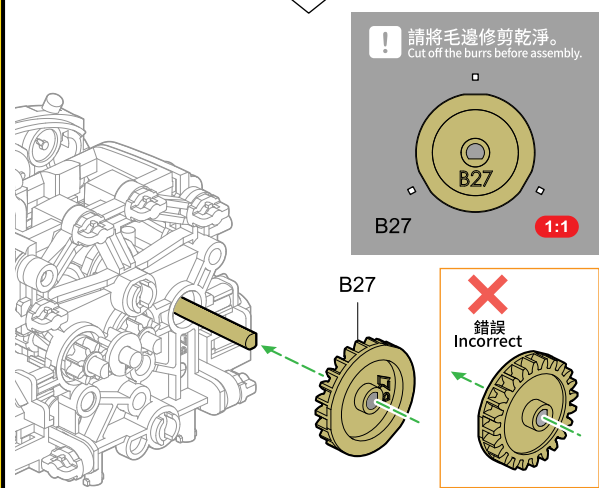
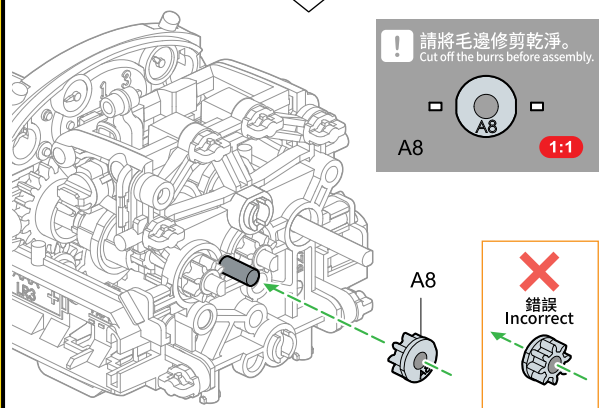
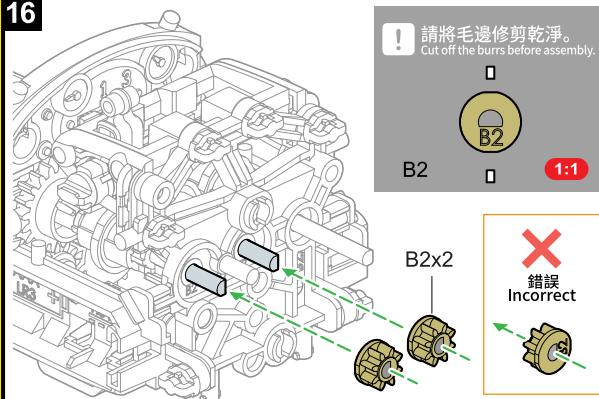
14

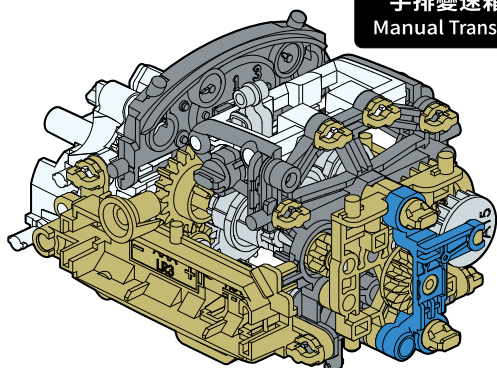


15



16

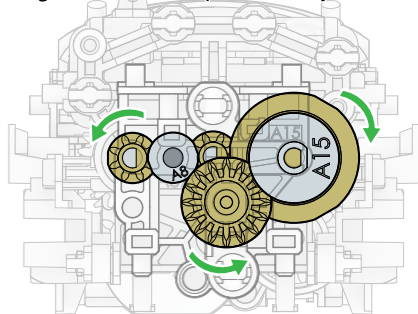




手排變速箱完成 Manual Transmission

檢查點 Check Point

! 請轉動齒輪，確保它能順暢旋轉。
Turn the gear. Make sure it spins smoothly.



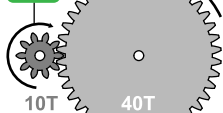
什麼是手排變速箱的齒比？ What's a Manual Transmission's Gear Ratio?

Ex:

小齒輪 Small gear

轉一圈 大齒輪
1 turns Big gear

轉四圈
4 turns



小 → 主動齒輪 大 → 被動齒輪

Small → The Driving Gear Big → The Driven Gear

大小齒輪 = 速度或力量 Big + Small Gear = Speed or Power

小齒輪帶動大齒輪 → 速度慢，力量大。

When a small gear turns a big gear, it goes slower but pushes harder.

大齒輪帶動小齒輪 → 速度快，力量小。

When a big gear turns a small gear, it spins faster but with less power.

什麼是齒比？ What's a Gear Ratio?

主動齒輪要轉幾圈，才能帶動被動齒輪轉一圈。

It tells us how many times the driving gear has to spin to make the driven gear turn once.

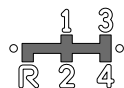
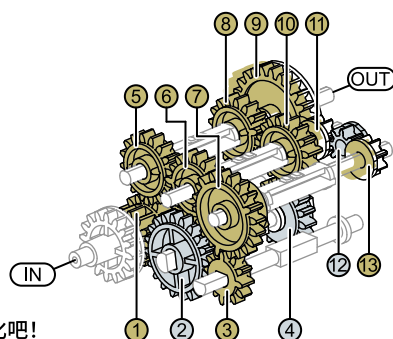
Example:

小齒輪 = 10 齒 | 大齒輪 = 40 齒 $40 \div 10 = 4$

小齒輪 (主動齒輪) 轉 4 圈帶動大齒輪 (被動齒輪) 轉 1 圈!

Small gear = 10 teeth | Big gear = 40 teeth $40 \div 10 = 4$

So the small gear spins 4 times to turn the big one once!

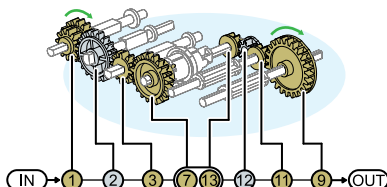


復古賽車採用這樣的齒輪組合。請嘗試切換齒輪，體驗速度與動力的變化吧!

Your Vintage Racer uses gears like this. Try switching them and see how the speed and power change!

一起學習復古賽車是如何運作的! See How the Vintage Racer's Gears Work!

倒退檔 Reverse Gear



齒比計算公式

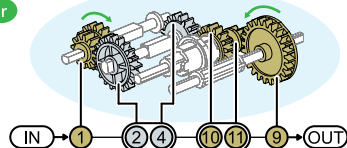
Gear Ratio
Calculation Formula

小齒輪轉 5 圈 | 大齒輪轉 1 圈

Small gear spins 5 times | Big gear spins 1 time

$$\frac{\text{被動齒輪 Driven Gear}}{\text{主動齒輪 Driving Gear}} = \frac{1}{12} \times \frac{20}{20} \times \frac{12}{12} \times \frac{20}{8} \times \frac{8}{8} \times \frac{8}{8} \times \frac{24}{1} = 5$$

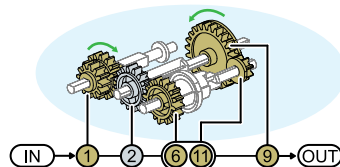
一檔 1st Gear



小齒輪轉 5 圈 | 大齒輪轉 1 圈

Small gear spins 5 times | Big gear spins 1 time

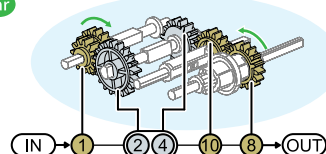
二檔 2nd Gear



小齒輪轉 3 圈 | 大齒輪轉 1 圈

Small gear spins 3 times | Big gear spins 1 time

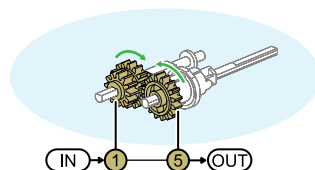
三檔 3rd Gear



小齒輪轉 1.67 圈 | 大齒輪轉 1 圈

Small gear spins 1.67 times | Big gear spins 1 time

四檔 4th Gear

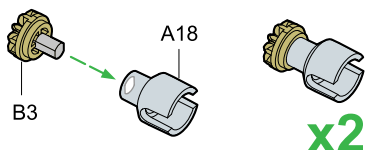


小齒輪轉 1 圈 | 大齒輪轉 1 圈

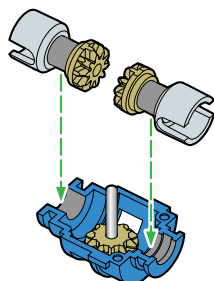
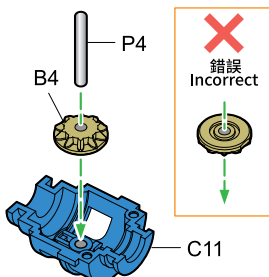
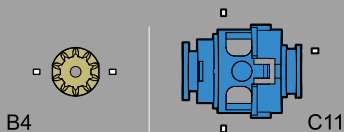
Small gear spins 1 time | Big gear spins 1 time

1

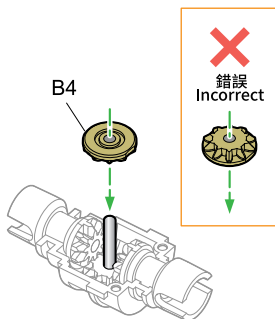
! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.



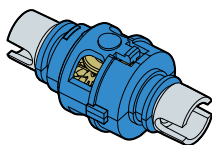
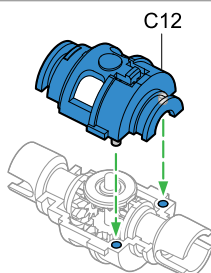
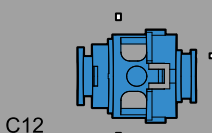
! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.



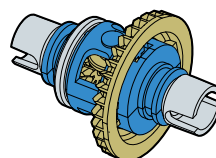
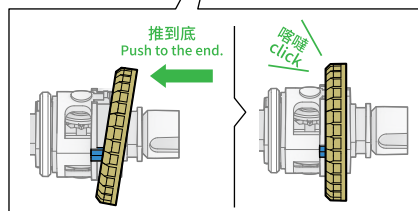
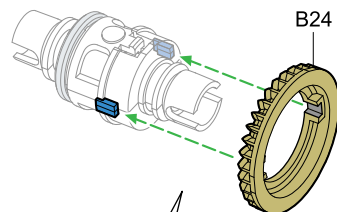
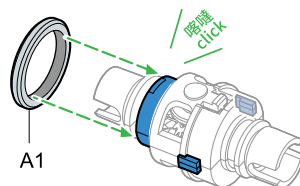
! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.



! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.



2

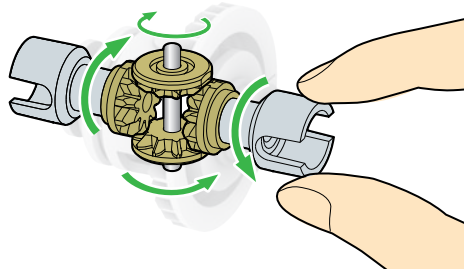


差速器完成
Differential

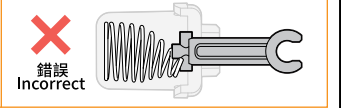
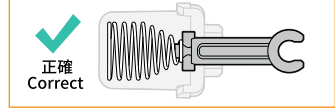
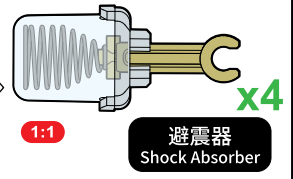
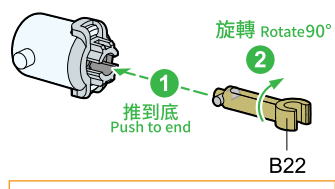
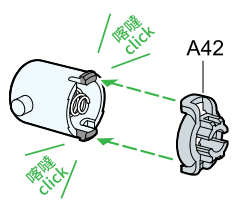
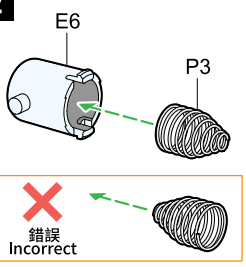
檢查點 Check Point



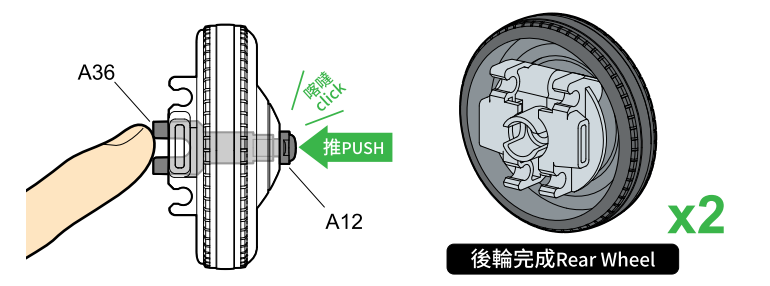
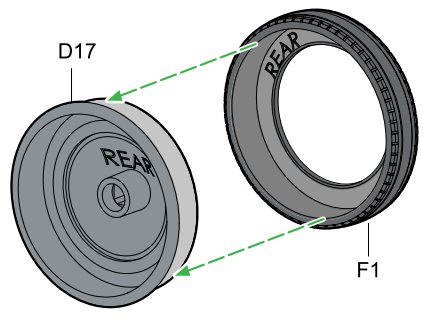
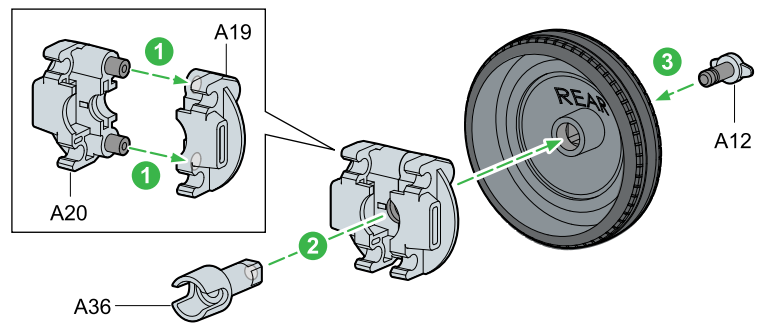
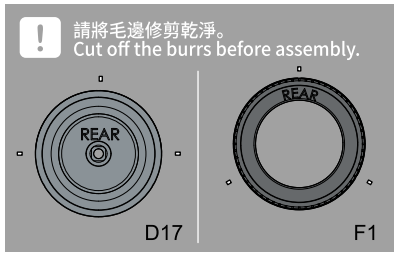
請轉動齒輪，確保它能順暢旋轉。
Turn the gear. Make sure it spins smoothly.



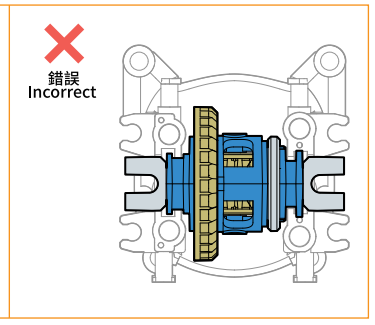
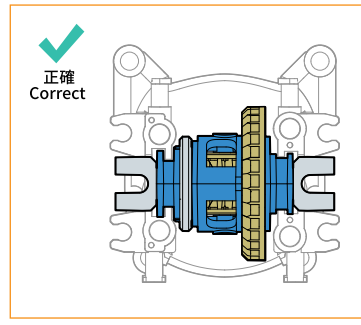
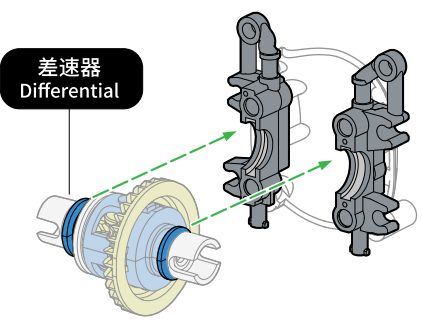
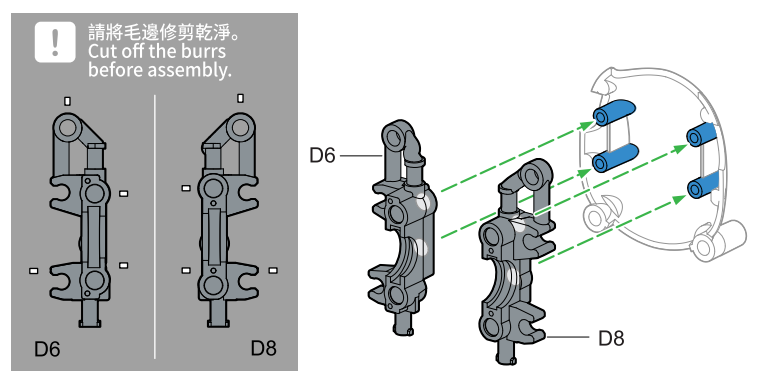
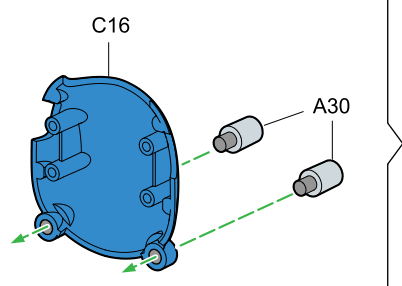
2



3

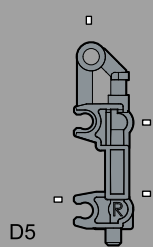


4



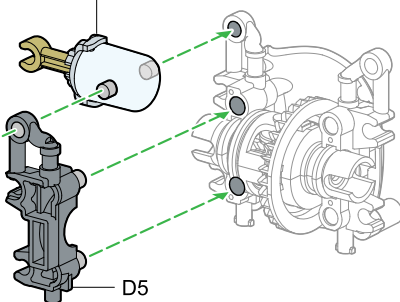
5

! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.



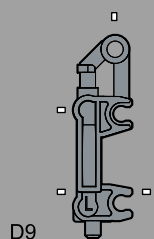
D5

避震器 Shock Absorber



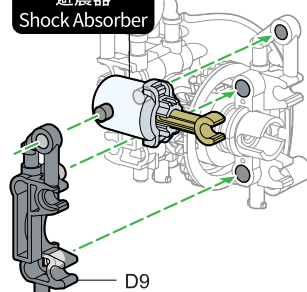
D5

! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.



D9

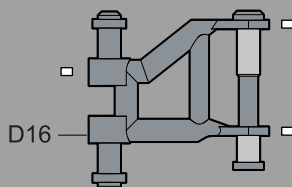
避震器 Shock Absorber



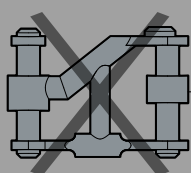
D9

6

! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.



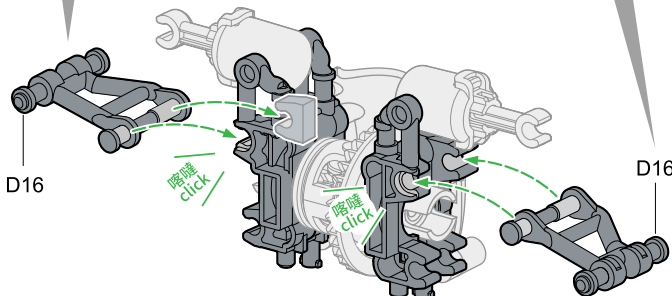
D16



D14

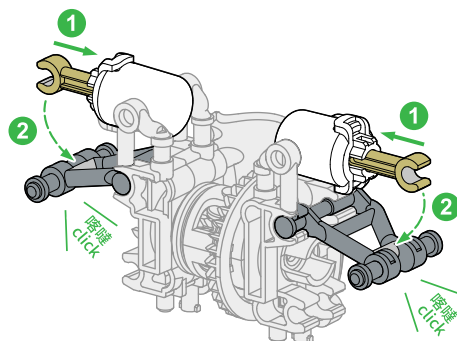
1:1

請注意：D16 與 D14 零件容易混淆，務必分清楚。Don't mix up D16 & D14



D16

D16

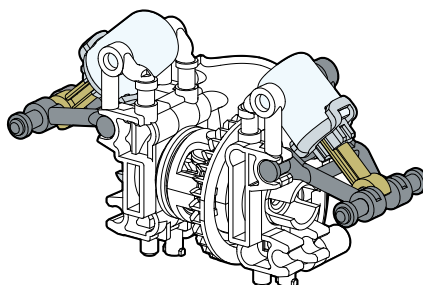


1

2

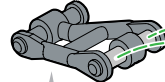
1

2



7

D14

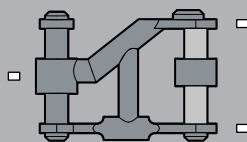


喀噠
click

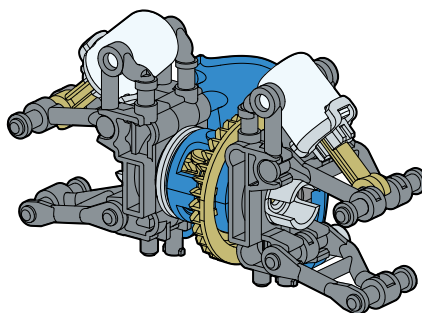
喀噠
click

D14

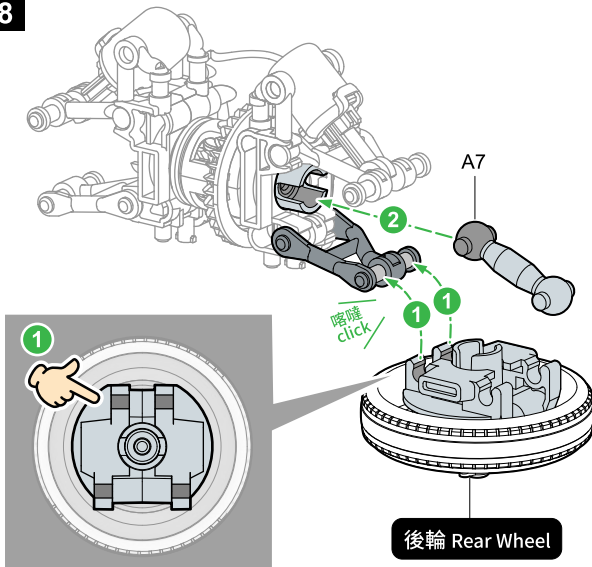
! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.



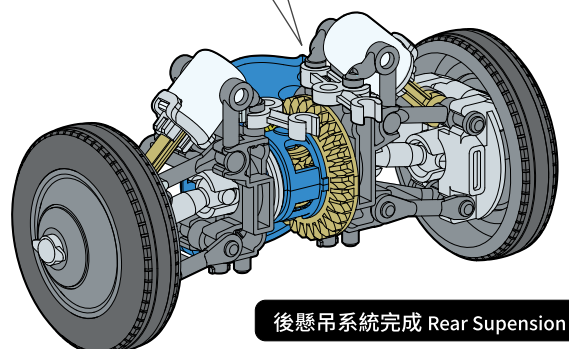
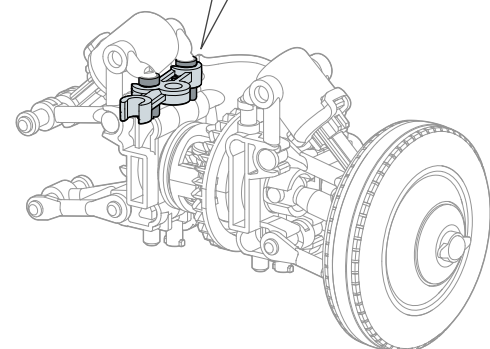
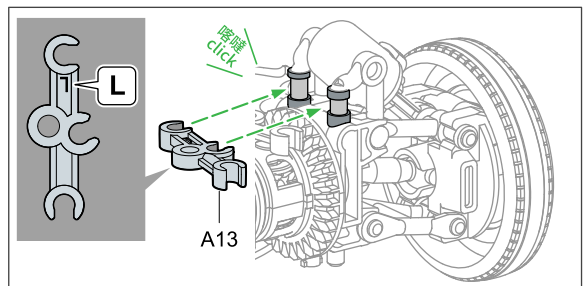
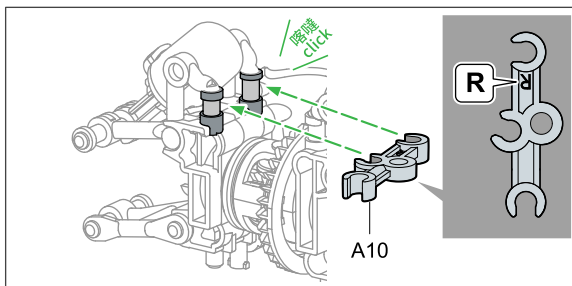
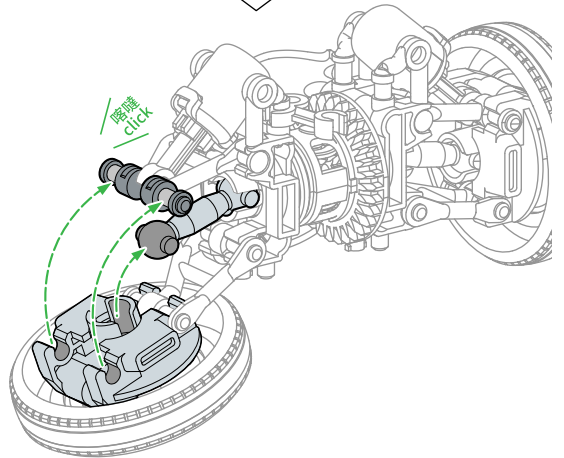
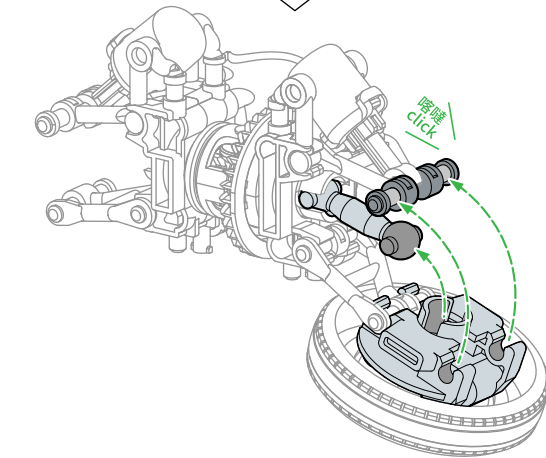
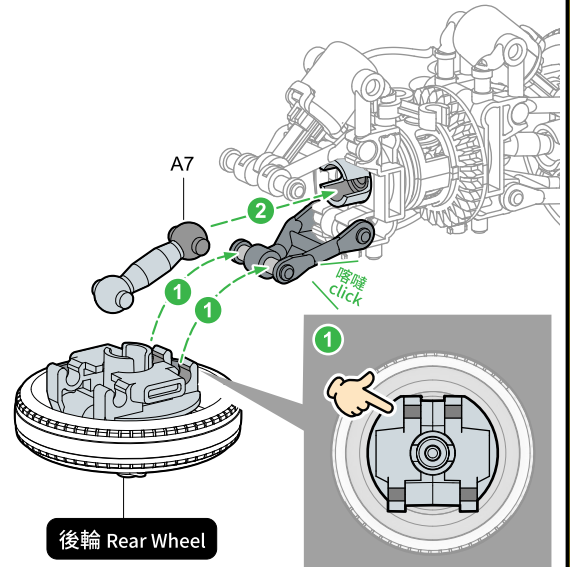
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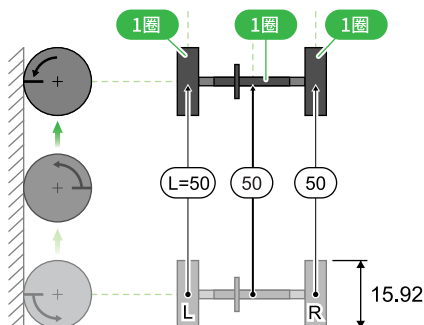
9



後懸吊系統完成 Rear Suspension

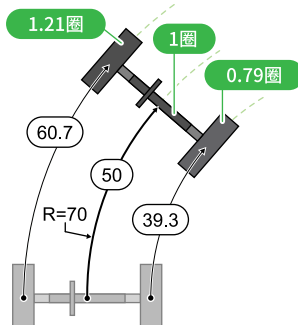
最初製造汽車時，引擎的動力會平均分配到兩個車輪，讓它們以相同速度轉動。當汽車直行時沒有問題，但是當汽車轉彎時，車輪需要不同的轉速。如果沒有這個設計，車輪就會打滑或摩擦。差速器是一種特殊的零件，當汽車轉彎時，它可以讓內外輪以不同的速度轉動。這有助於讓汽車轉彎可以平穩、安全。

When cars were first manufactured, the engine's power was distributed evenly to both wheels, causing them to rotate at the same speed. This worked well when the car was moving straight, but problems occurred when the car turned, because the wheels needed to rotate at different speeds. Without this design, the wheels would slip or experience friction. A differential is a special component that allows the inner and outer wheels to rotate at different speeds when a car turns, helping the car turn smoothly and safely.



想像一下，車輪的大小是 15.92 單位。當汽車直線行駛 50 單位距離時，車輪正好轉動一整圈。在這種情況下，左右兩個車輪行進的距離完全相同。

Imagine the wheels are 15.92 units big. When the car goes straight for 50 units, the wheels turn exactly one full circle. Both wheels move the same distance.

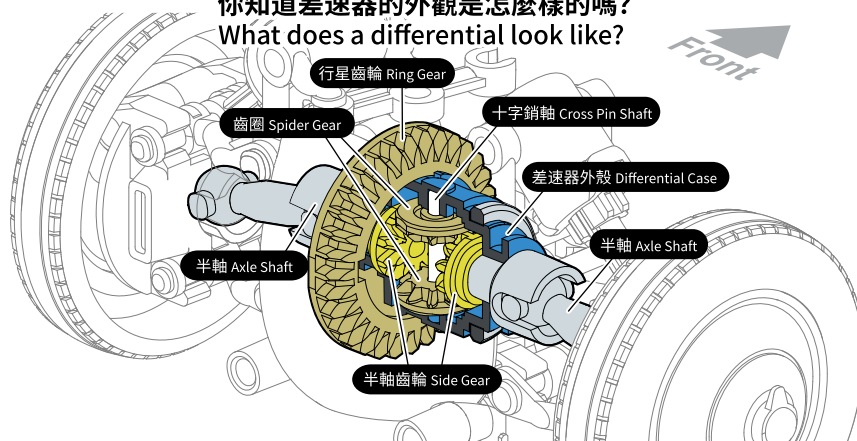


當汽車以 70 單位半徑向右轉彎時，若有差速器（左圖），左輪行駛的距離較長，轉動次數也會比右輪更多。若沒有差速器（右圖），汽車在轉彎時就會變得困難，右輪可能會打滑，甚至加速磨損。

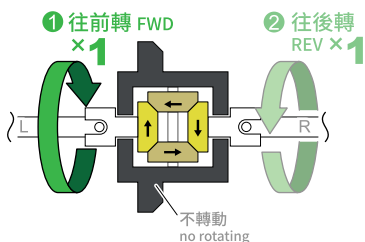
When the car turns right with a radius of 70 units, the left wheel travels farther and turns more times than the right wheel if there is a differential (left picture). Without a differential, the car will have trouble turning, and the right wheel might slip and wear out faster (right picture).

你知道差速器的外觀是怎麼樣的嗎?

What does a differential look like?

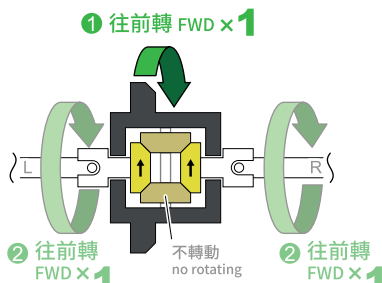


差速器是如何運作的? How does a differential work?



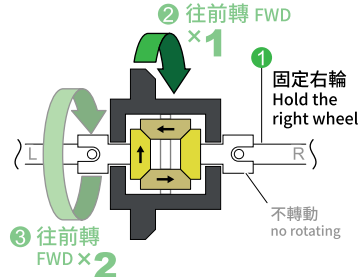
請嘗試把左邊車輪往前轉一圈，右邊車輪會同時往後轉一圈。

Try turning the left wheel forward one full turn. The right wheel will reverse one full turn.



請試著把齒圈往前轉一圈，左右兩個車輪就會一起往前轉一圈。（這可以觀察差速器在直線行駛時如何運作。）

Try turning the ring gear forward one full turn. Both wheels will turn forward together one full turn. (This shows how the differential works when the car goes straight.)



先把右輪固定住不動，再把齒圈往前轉一圈，你會看到左輪轉動兩圈。（這就是差速器在汽車右轉時的運作原理。）

Try holding the right wheel still, then turn the ring gear forward one full turn. The left wheel will turn forward two full turns. (This shows how the differential works when the car turns right.)

從這個實驗我們知道：差速器的祕密，就是讓左右車輪能有不同轉速，這樣汽車才能直行平穩、轉彎順暢！

小公式：左輪速度 + 右輪速度 = 中央軸速度的 2 倍

From this, we learn that a differential helps the car go straight and turn smoothly by letting the wheels spin at different speeds.

The rule is: Left wheel speed + Right wheel speed = 2 × Center axle speed.

認識阿克曼轉向幾何原理 About Ackermann Steering Geometry

阿克曼轉向幾何是一種聰明的設計，能讓汽車轉彎更順暢。當汽車轉彎時，內側與外側的前輪必須走在不同的路徑上。這個系統可以讓兩個前輪以正確的角度轉動，指向同一個轉彎中心。如此一來，汽車就能平穩轉彎，避免車輪過度打滑。

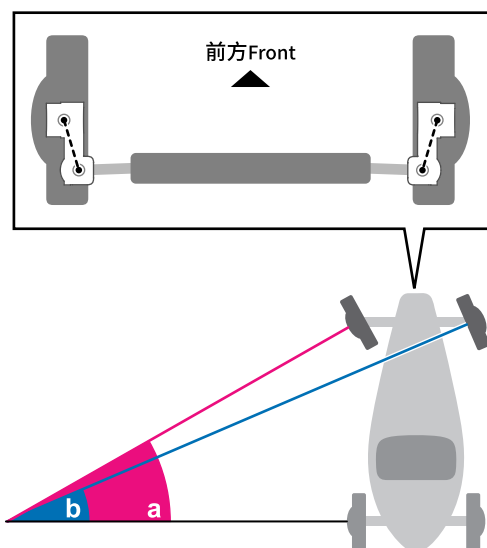
Ackermann steering geometry is a smart way to help cars turn better. When a car turns, the inside and outside wheels need to follow different paths. This system helps 2 front wheels turn in just the right way so they point to the same center of the turn. That way, the car turns smoothly without the wheels slipping too much.

當轉彎時，內側車輪的轉角 (a) 會大於外側車輪的轉角 (b)。
The inside wheel turns more (angle a) than the outside wheel (angle b).

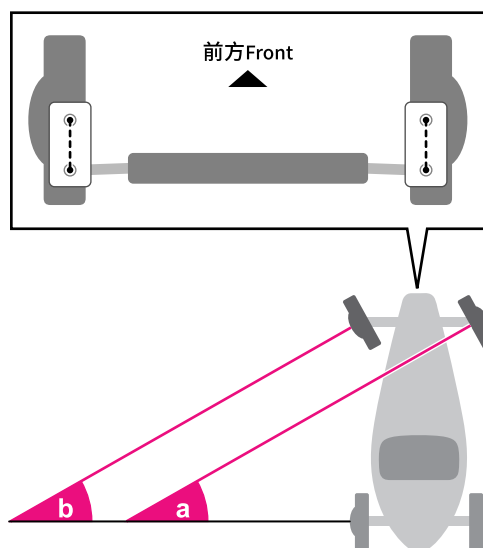
阿克曼轉向幾何透過梯形結構的連桿設計，讓左右前輪能以不同角度轉動。

若使用筆直等長的連桿，前輪就無法保持正確路徑，容易造成打滑。

Ackermann steering geometry uses a special shape of connecting rods, like a trapezoid, to help each front wheel turn at a different angle. If the rods were straight and even, the wheels wouldn't turn correctly and would slip more.



阿克曼轉向幾何中，內側車輪的轉角 (a) 會大於外側車輪的轉角 (b)。
With Ackermann steering, the turn angle $a > b$.

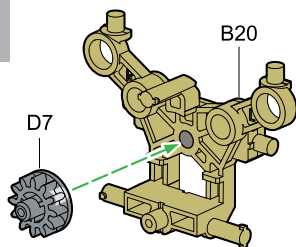
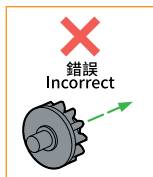
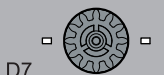


若連桿設計為筆直且等長，內外輪的轉角將相同 ($a = b$)。
If the rods are straight and even, then angle $a = b$.

阿克曼轉向幾何在汽車設計中扮演重要角色。它讓車輛能以正確角度轉彎，提升行駛平順性，並有效減少輪胎的過度磨耗。
Ackermann steering geometry is a very important part of car design. It helps cars turn the right way, makes driving smoother, and protects the tires from wearing out too fast.

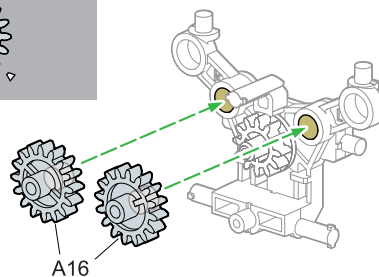
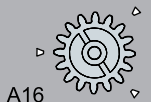
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! 請將毛邊修剪乾淨。
Cut off the burrs
before assembly.

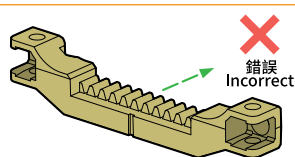
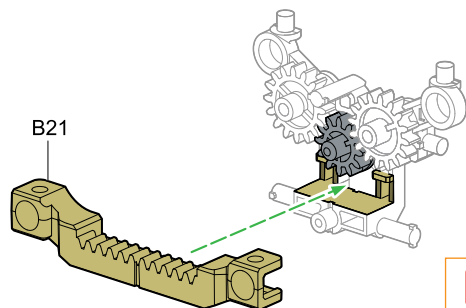


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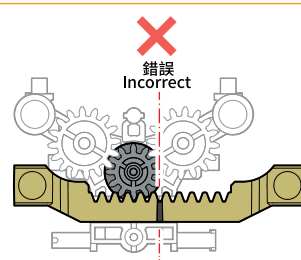
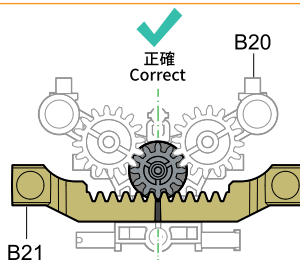
! 請將毛邊修剪乾淨。
Cut off the burrs
before assembly.



3

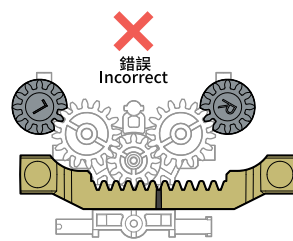
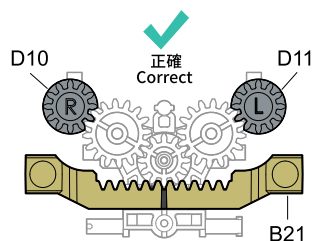
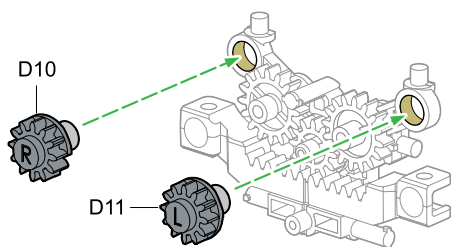


! 請將 B21 對準，放置在 B20 的正中央位置。
B21 should be placed right in the middle of B20.

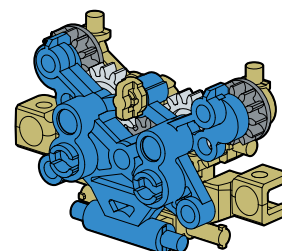
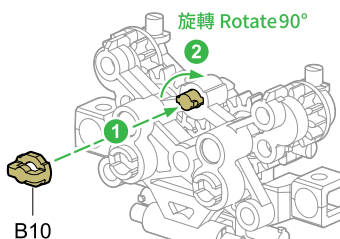
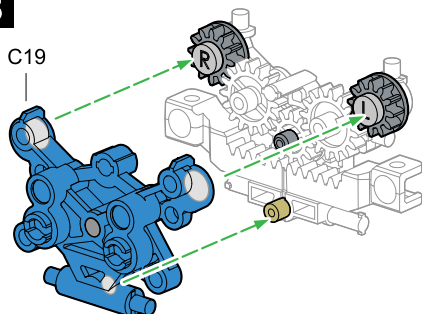


4

! 請將 B21 置中，並裝入 D10 與 D11，務必確認安裝方向正確。
Part B21 must be centered. Put in D10 and D11. Make sure they
are placed in the correct direction.



5

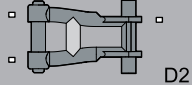


轉向機箱完成
Steering Gear Box

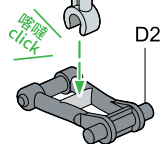
6

避震器 Shock Absorber

! 請將毛邊修剪乾淨。
Cut off the burrs
before assembly.

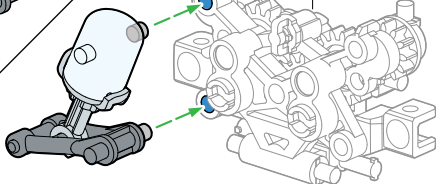


D2



D2

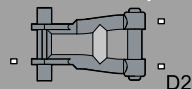
轉向機箱 Steering Gear Box



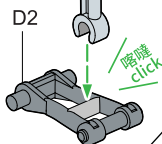
7

避震器 Shock Absorber

! 請將毛邊修剪乾淨。
Cut off the burrs
before assembly.

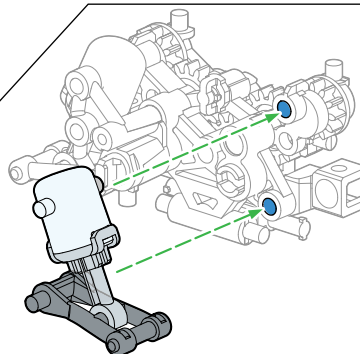


D2

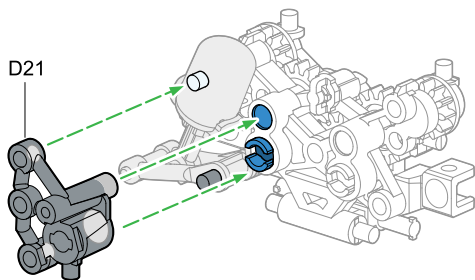


D2

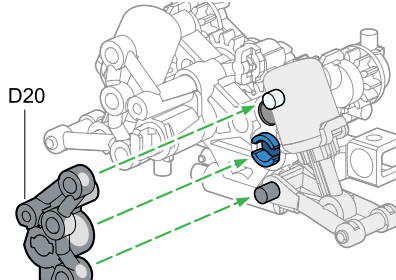
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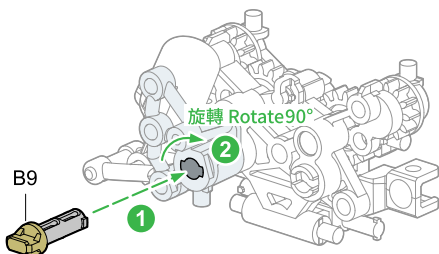
D21



D20



B9

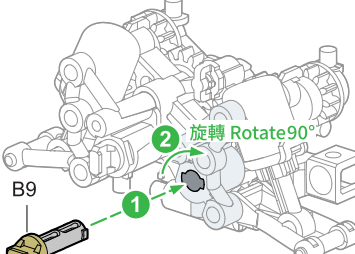


旋轉 Rotate 90°

2

1

B9

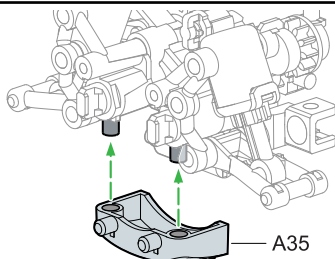


旋轉 Rotate 90°

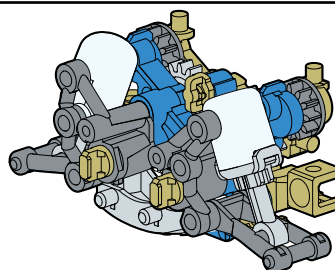
2

1

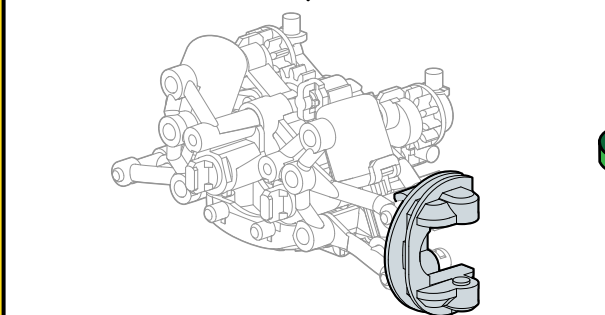
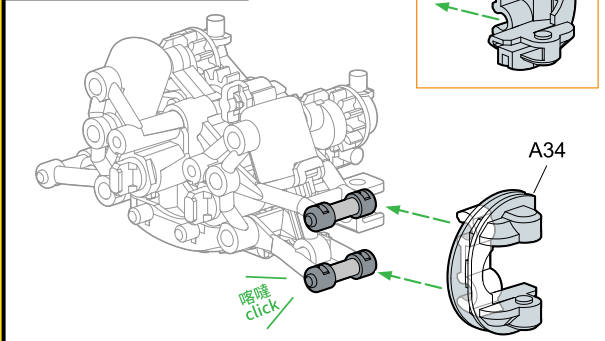
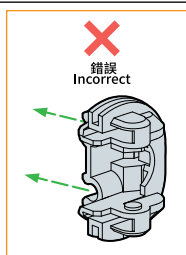
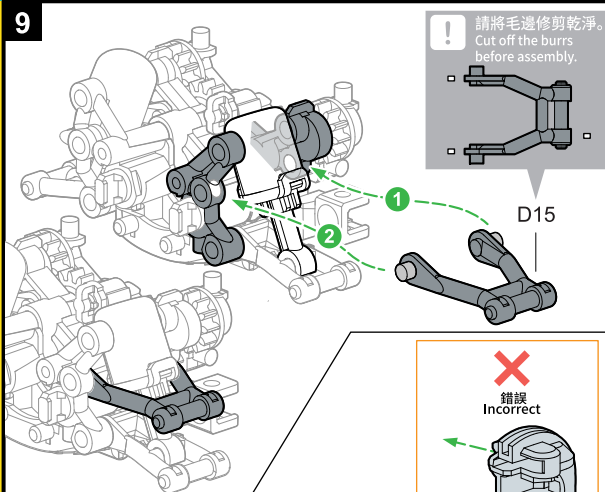
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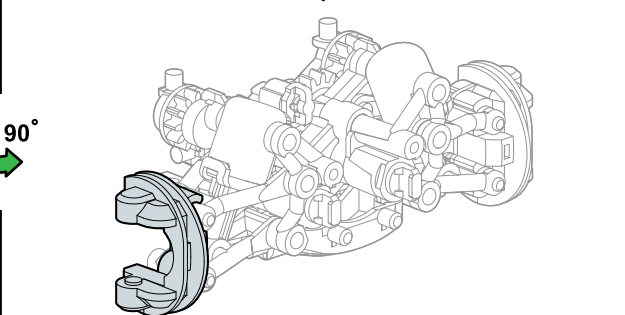
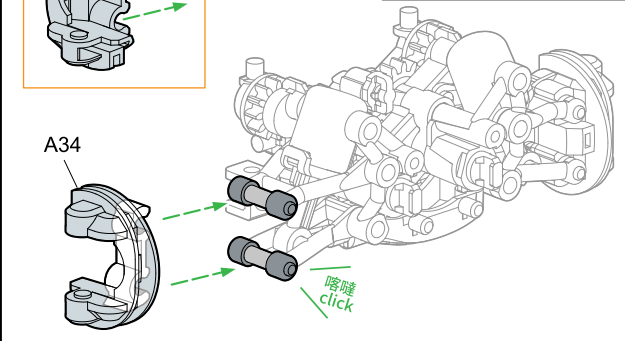
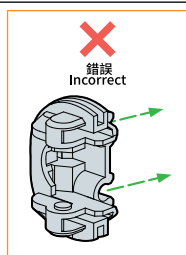
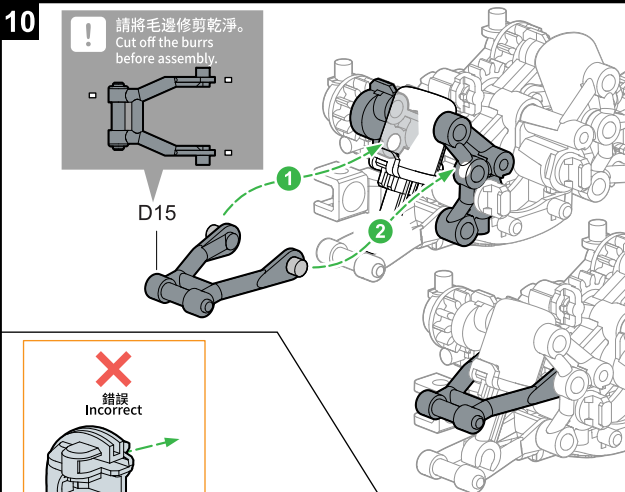
A35



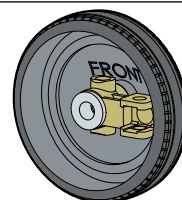
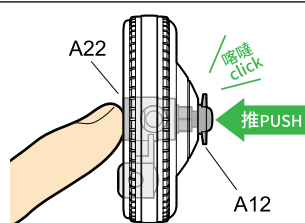
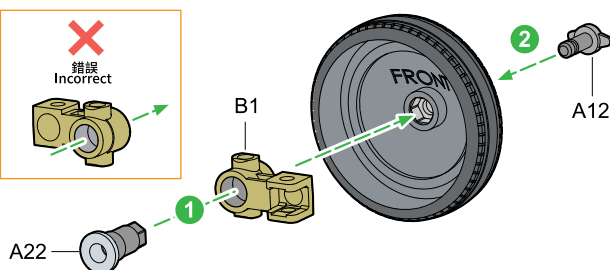
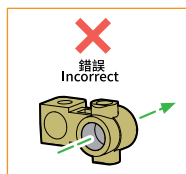
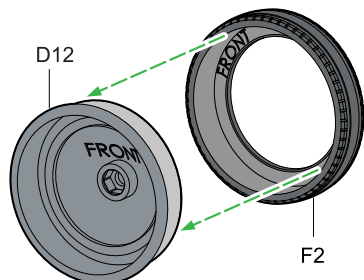
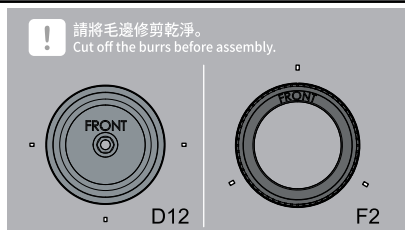
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10

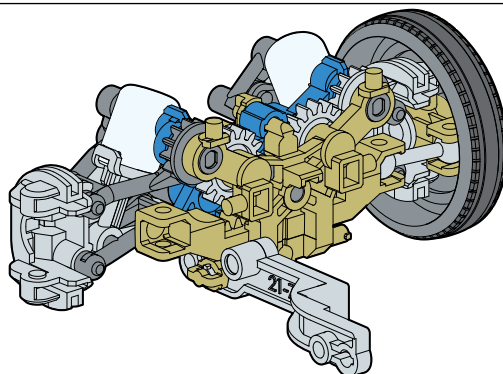
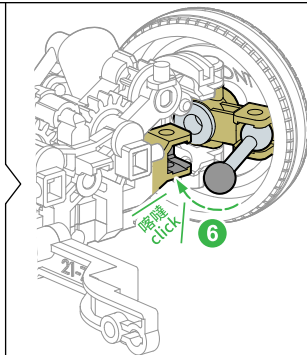
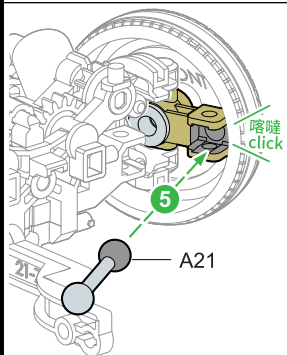
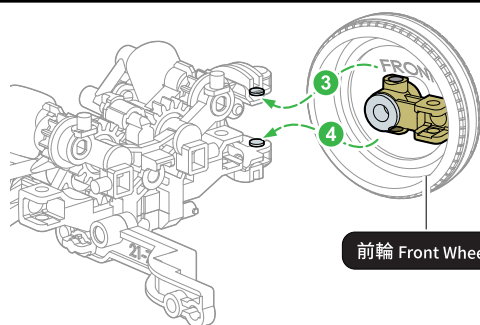
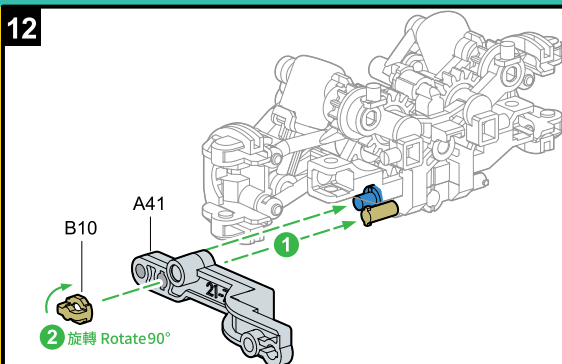


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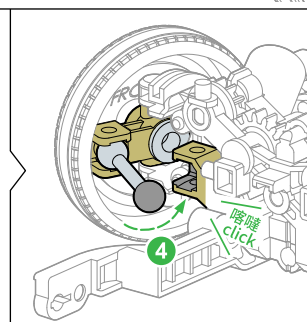
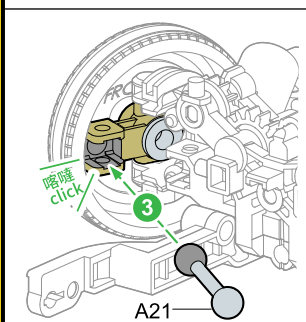
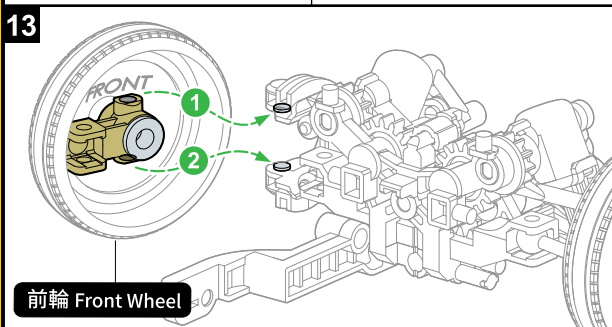


x2

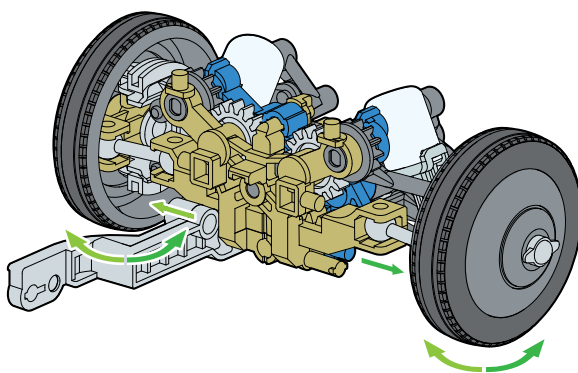
12



13

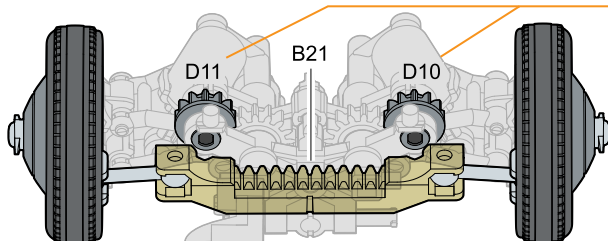


請輕輕左右擺動前輪，確認轉向運作平順、無阻力。
Wiggle the front wheels left and right.
The steering should feel smooth and easy.

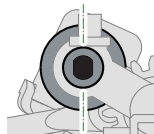


前懸吊系統完成 Front Suspension

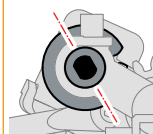
檢查點 Check Point



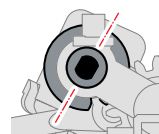
正確 Correct



錯誤 Incorrect



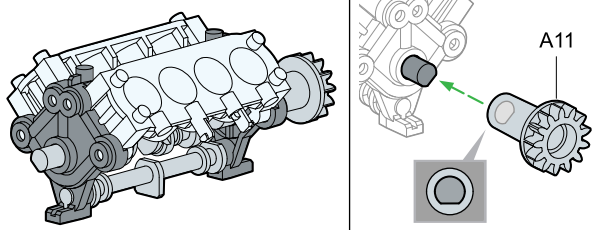
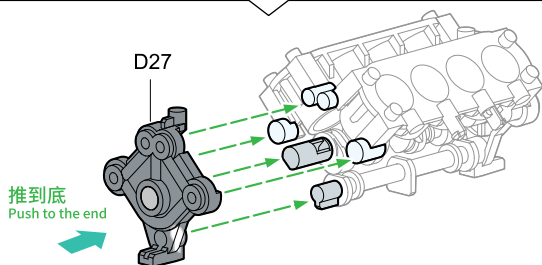
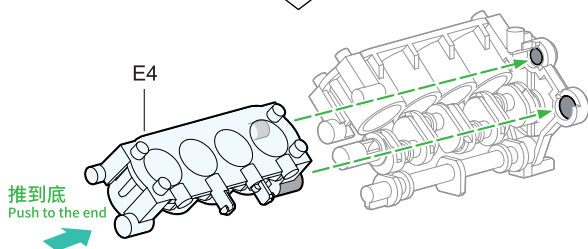
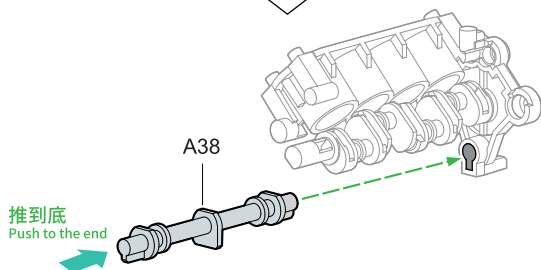
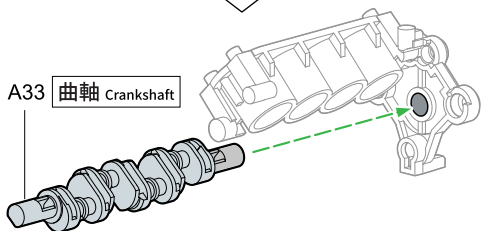
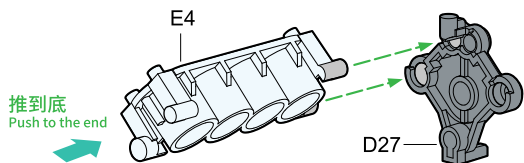
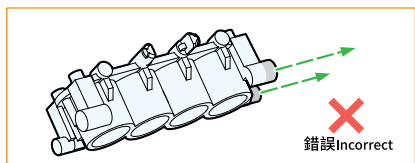
或



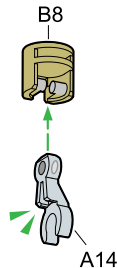
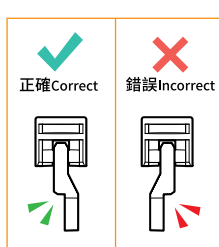
請確認 B21 已置中(前輪保持直線)，此時 D10 與 D11 的孔位應對齊筆直(如圖示)。

When B21 is centered (front wheels straight), the holes in D10 and D11 should also be lined up straight (see illustration).

1



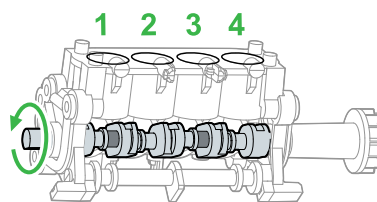
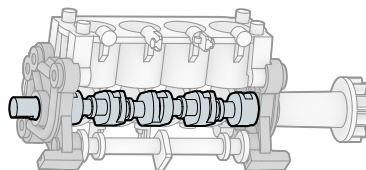
2



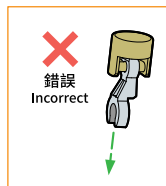
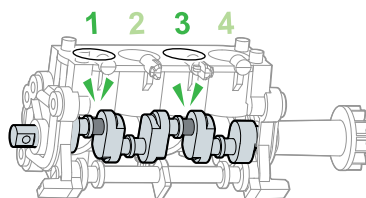
x8

活塞完成
Piston

3

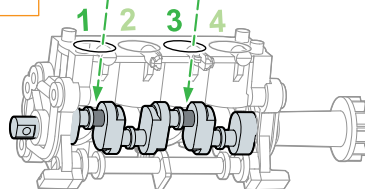


請旋轉 A33 曲軸, 使其標記點 1 朝向汽缸 1 與 3 (如下圖所示)。
Turn the A33 Crankshaft so that the marked 1 spot points toward Cylinder 1 & 3 (as shown below).

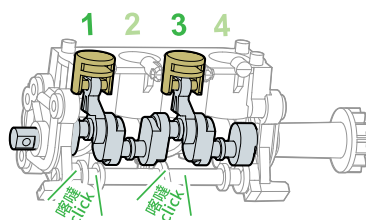


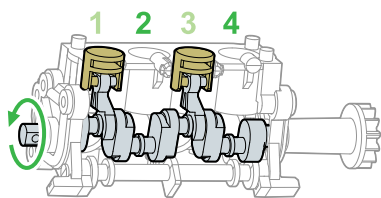
活塞完成
Piston

x2

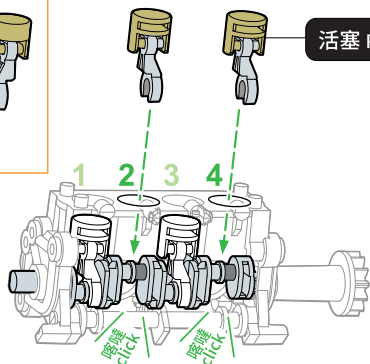
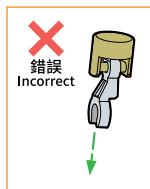
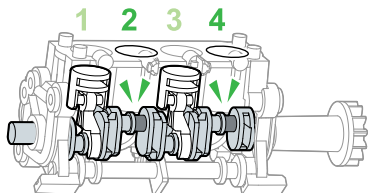


請將其滑入汽缸 1 與 3, 接著與曲軸連接。
Slide it through Cylinders 1 & 3, then connect it to the crankshaft.

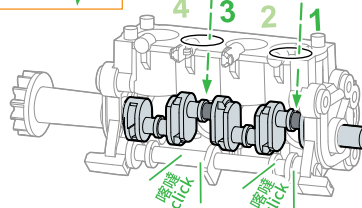
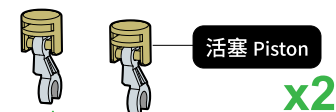
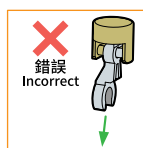
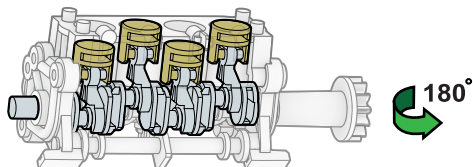




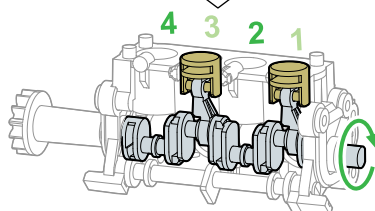
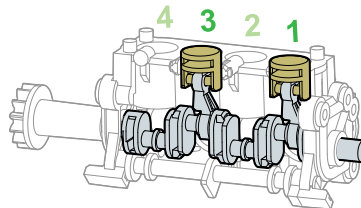
請旋轉 A33 曲軸，使標記點 朝向汽缸 2 與 4 (如下圖所示)。
Turn the A33 Crankshaft so that the marked spot points toward Cylinder 2 & 4 (as shown below).



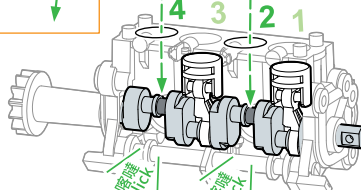
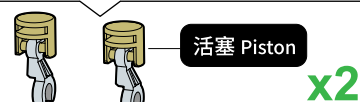
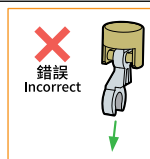
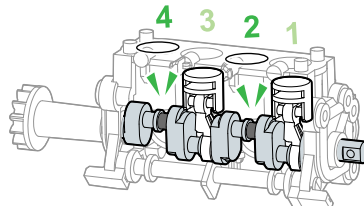
請將其滑入汽缸 2 與 4，接著與曲軸連接。
Slide it through Cylinders 2 & 4, then connect it to the crankshaft.



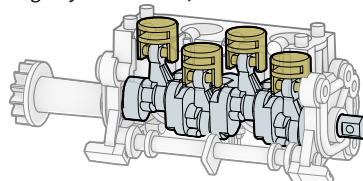
請將其滑入汽缸 1 與 3，接著與曲軸連接。
Slide it through Cylinders 1 & 3, then connect it to the crankshaft.



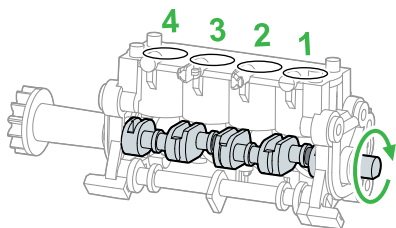
請旋轉 A33 曲軸，使標記點 朝向汽缸 2 與 4 (如下圖所示)。
Turn the A33 Crankshaft so that the marked spot points toward Cylinder 2 & 4 (as shown below).



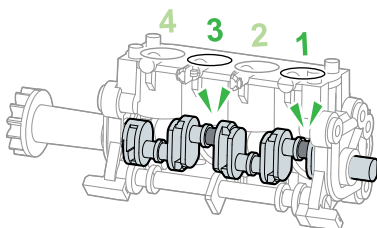
請將其滑入汽缸 2 與 4，接著與曲軸連接。
Slide it through Cylinders 2 & 4, then connect it to the crankshaft.



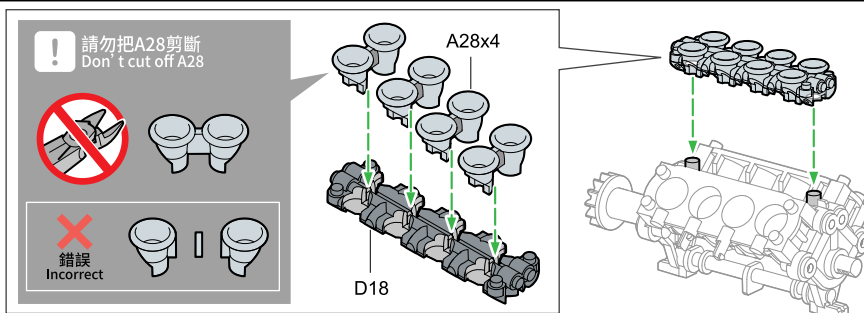
4



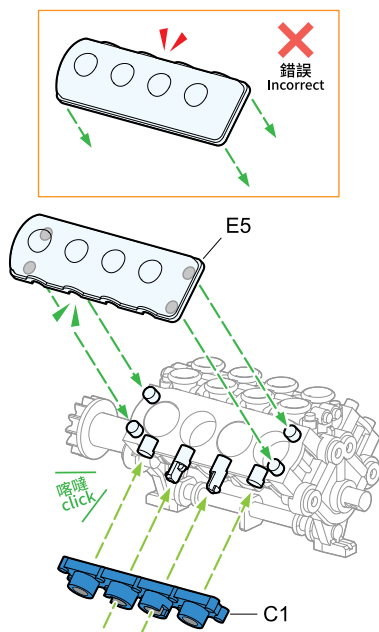
請旋轉 A33 曲軸，使其標記點 朝向汽缸 1 與 3 (如下圖所示)。
Turn the A33 Crankshaft so that the marked spot points toward Cylinder 1 & 3 (as shown below).



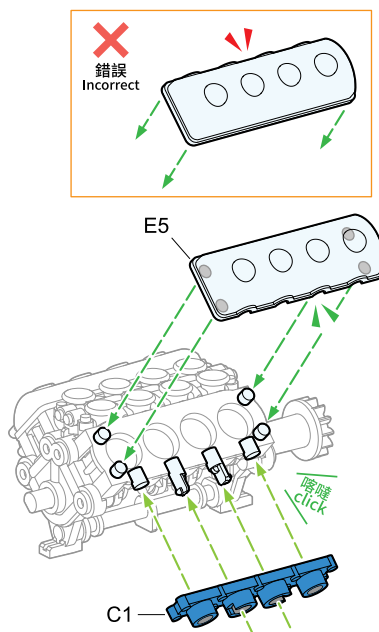
5



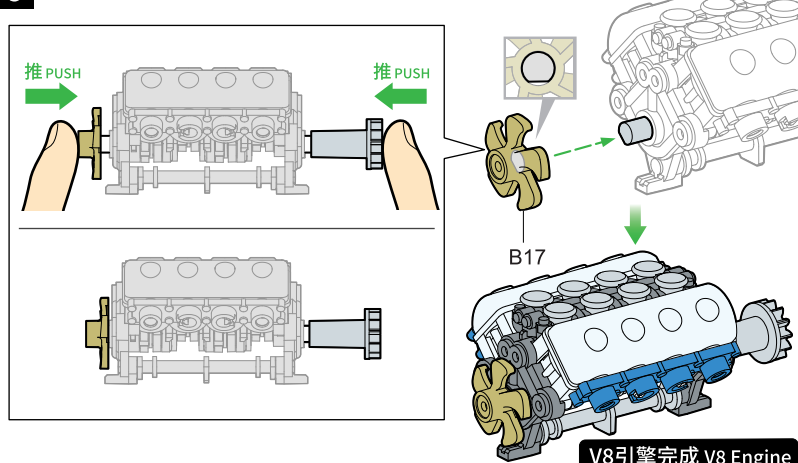
6



7

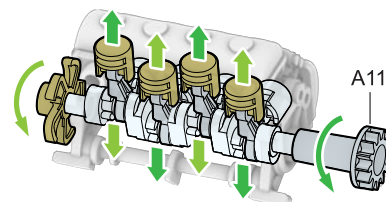


8



檢查點 Check Point

! 請旋轉 A11, 確認它能自由順暢地上下滑動。
Turn A11 and make sure it can move up and down smoothly.



什麼是 V8 引擎？

V8 引擎是一種擁有 8 個汽缸，並以 V 字型排列的引擎結構。左右各 4 個汽缸，從正面看起來就像一個大大的「V」，因此被稱為 V8 引擎。

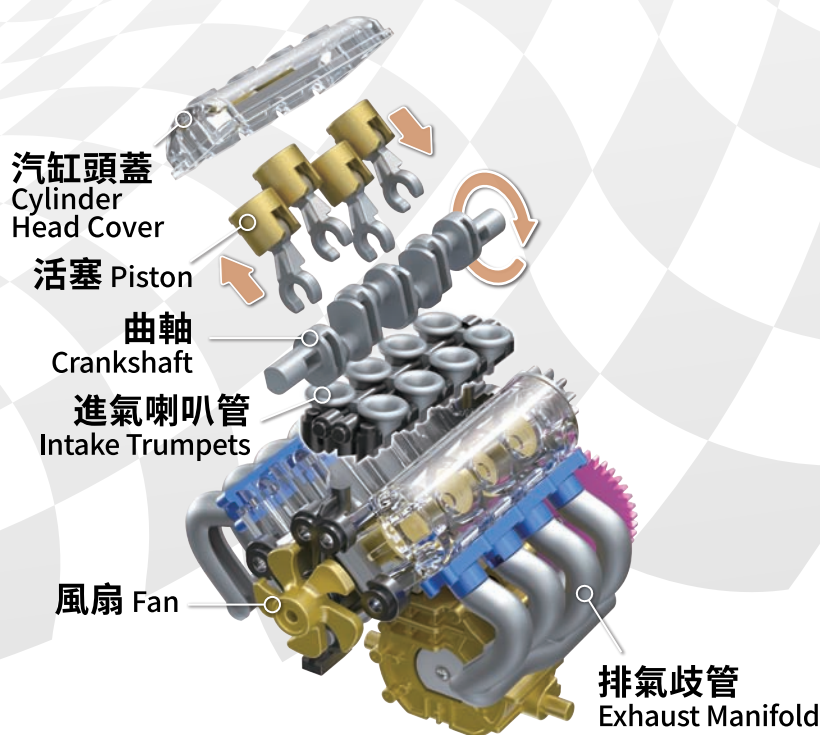
這樣的配置讓引擎在運轉時更加平順、震動更小，同時也能有效降低噪音。憑藉較大的排氣量特性，V8 引擎能在低轉速區間就輸出充足動力，帶來紮實且有利的扭力表現。

也正因為動力充沛、運轉穩定，V8 引擎長期被廣泛應用於高性能跑車與大型豪華車款，並逐漸成為性能與力量並存的經典象徵。

What Is a V8 Engine?

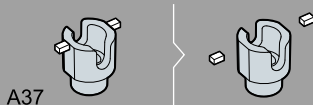
A V8 engine is an engine configuration that features eight cylinders arranged in a V-shaped layout. With four cylinders on each side, the structure resembles a large “V” when viewed from the front—hence the name V8.

This design allows the engine to run more smoothly with reduced vibration, while also helping to minimize noise. Thanks to its larger displacement, a V8 engine is able to deliver strong power even at low engine speeds, providing solid and responsive torque. Because of its powerful output and stable performance, V8 engines have long been widely used in high-performance sports cars and large luxury vehicles, and have come to represent a classic symbol of performance and power.

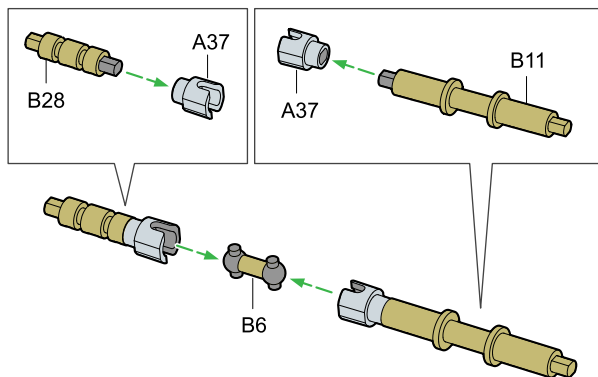


1

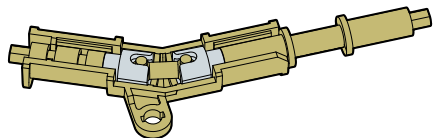
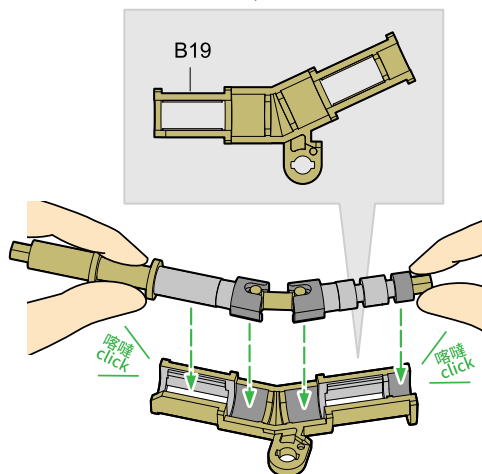
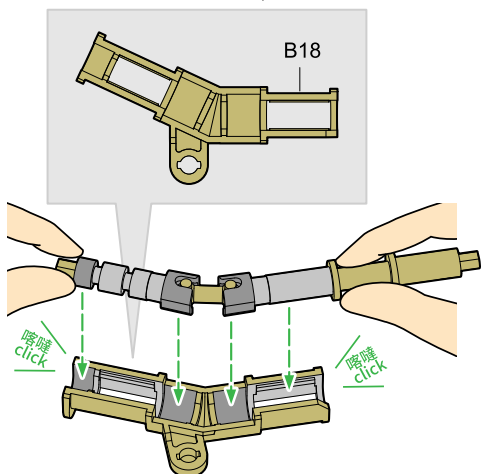
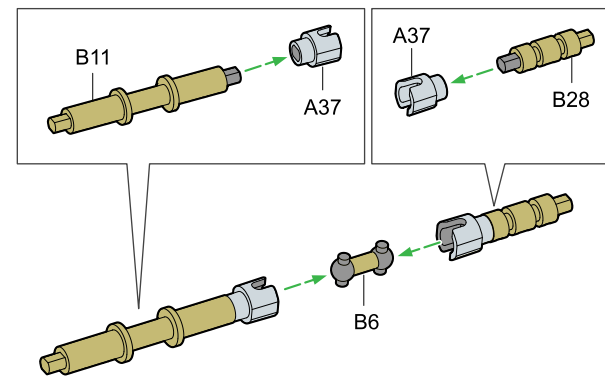
! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.



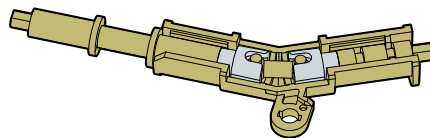
2



3



右駕轉向柱 Right-hand Drive Steering Column

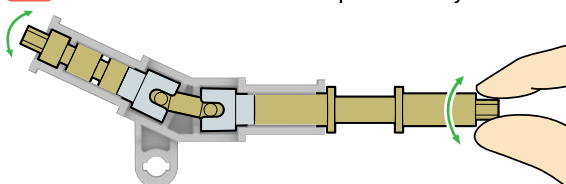


左駕轉向柱 Left-hand Drive Steering Column

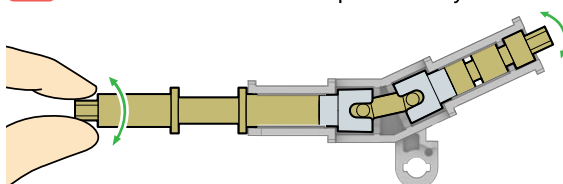
檢查點 Check Point

檢查點 Check Point

! 請旋轉轉向柱，確保其運作平滑無阻。
Turn the column. Make sure it spins smoothly.



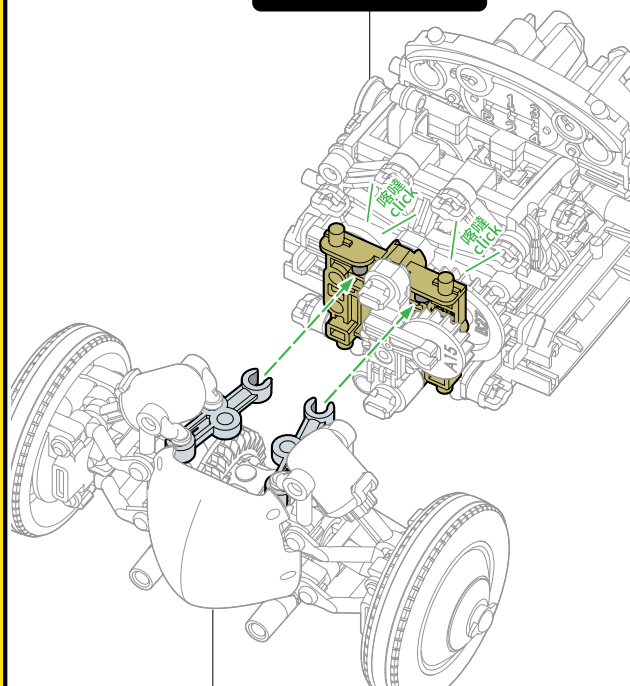
! 請旋轉轉向柱，確保其運作平滑無阻。
Turn the column. Make sure it spins smoothly.



汽車底盤組裝 Car Chassis Assembly

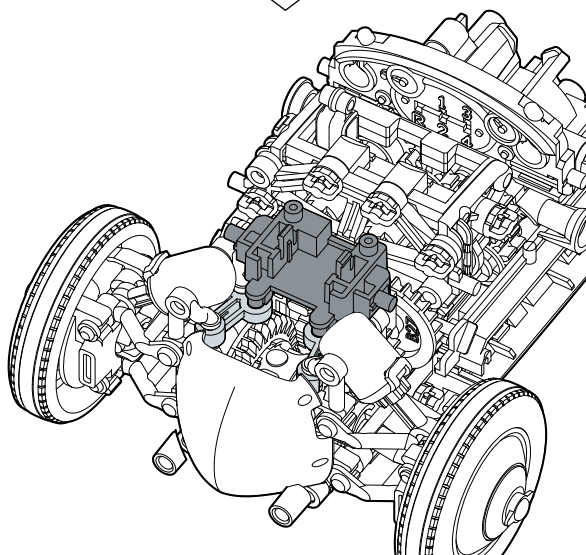
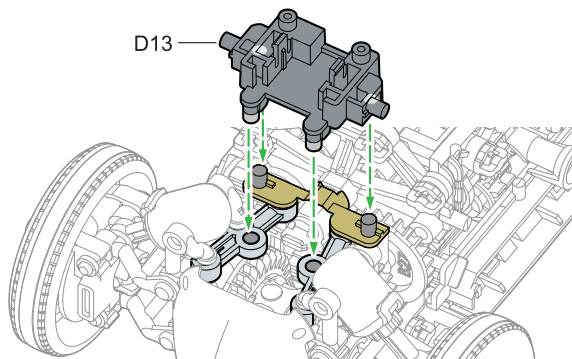
1

手排變速箱
Manual Transmission



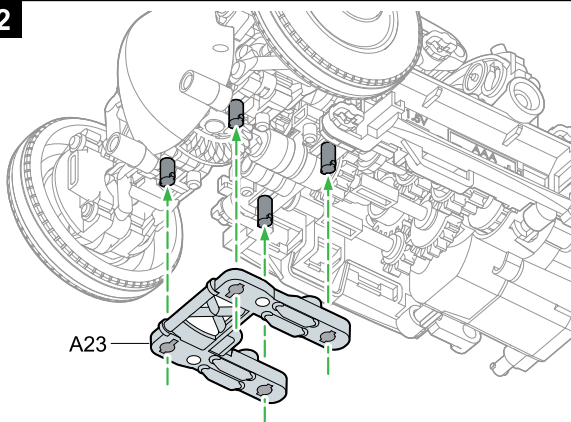
後懸吊系統 Rear Suspension

D13



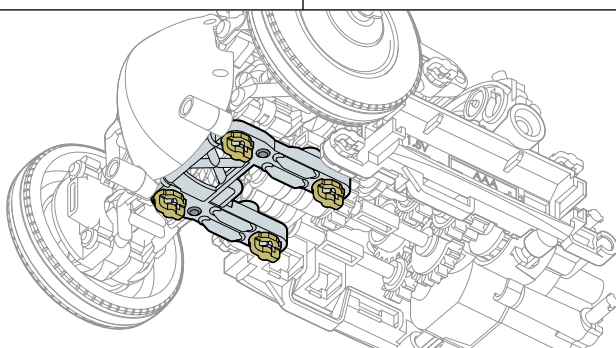
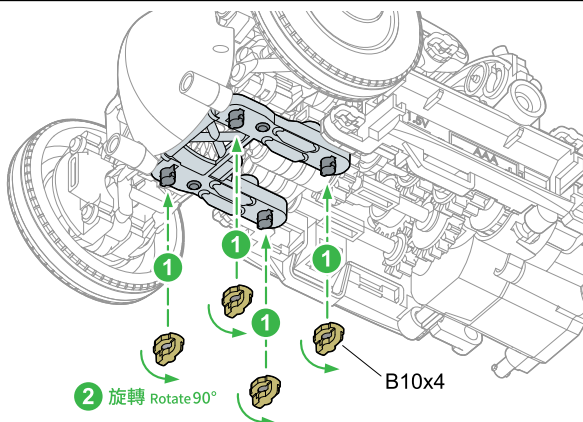
2

A23

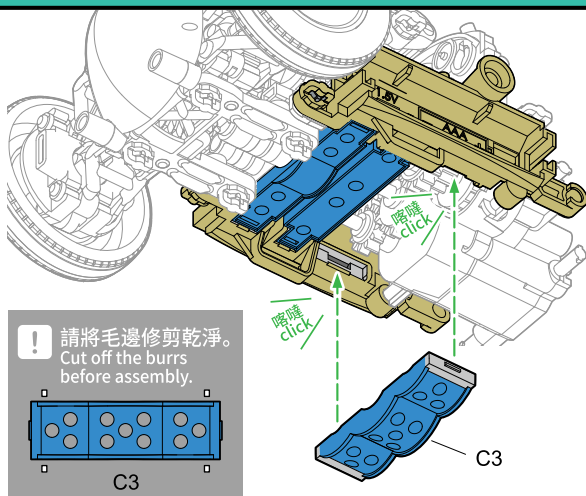
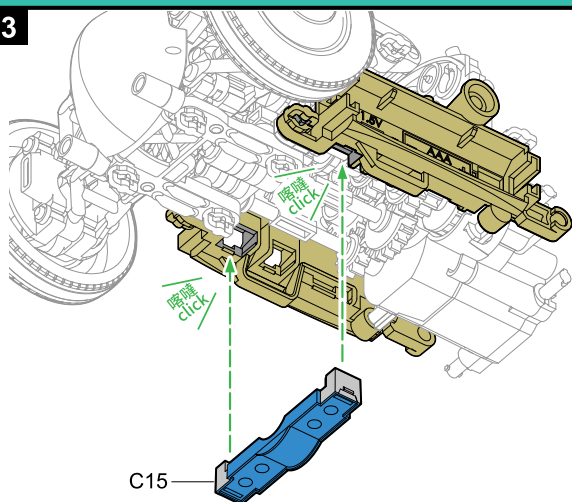


2 旋轉 Rotate 90°

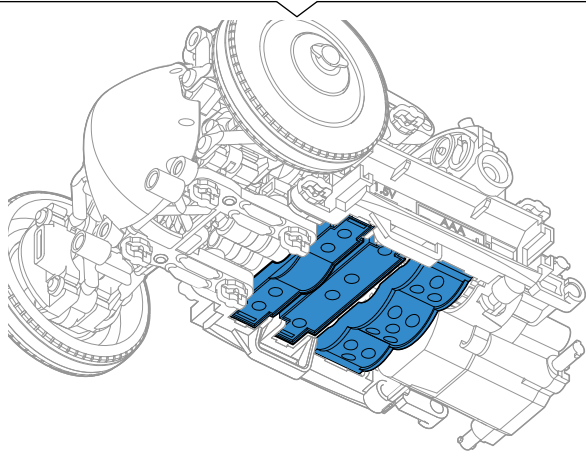
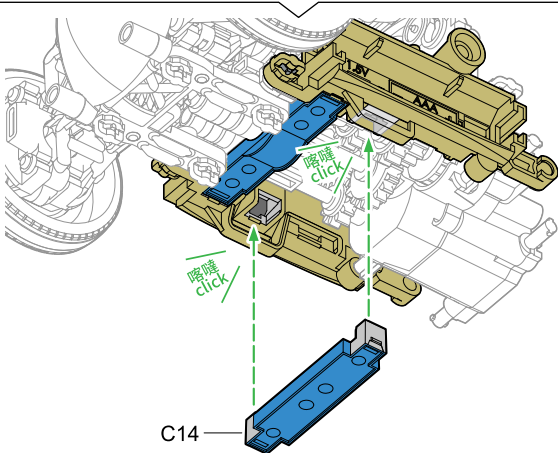
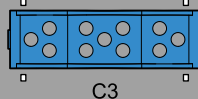
B10x4



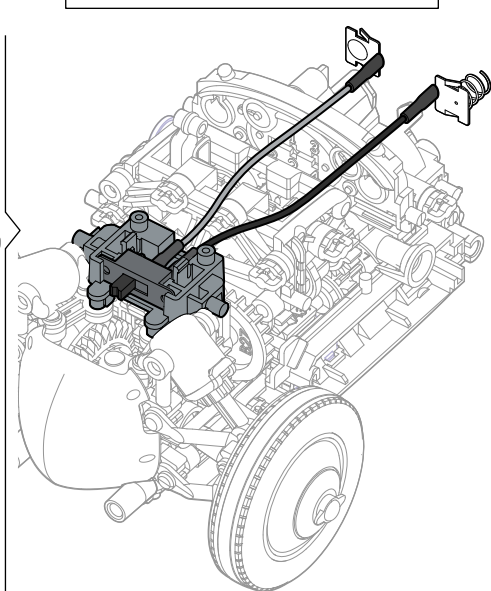
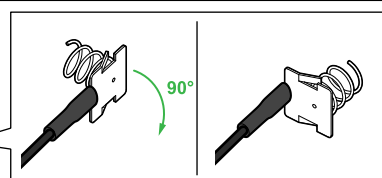
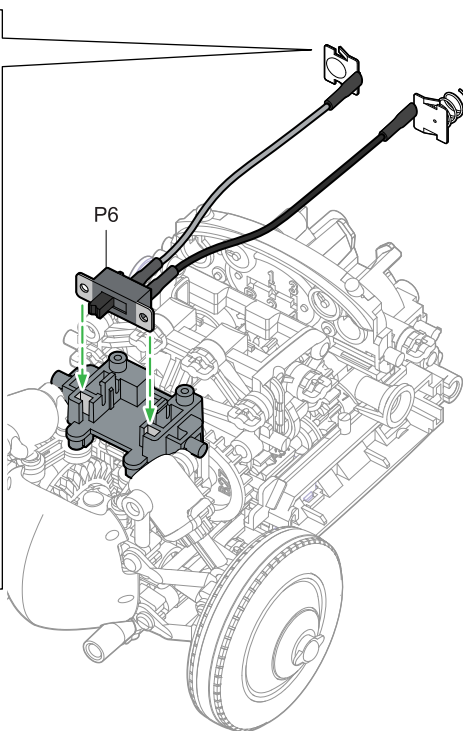
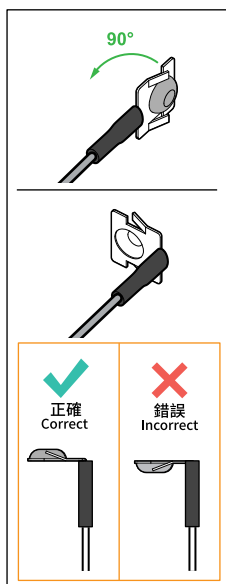
3



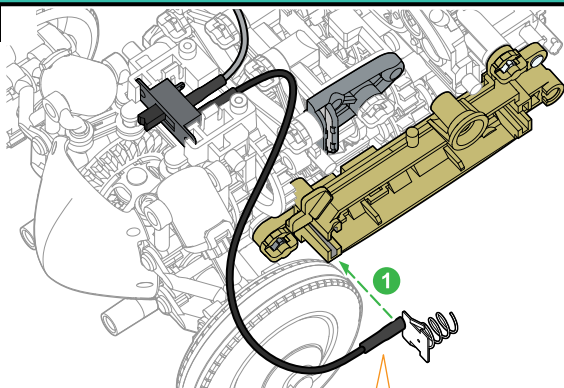
! 請將毛邊修剪乾淨。
Cut off the burrs
before assembly.



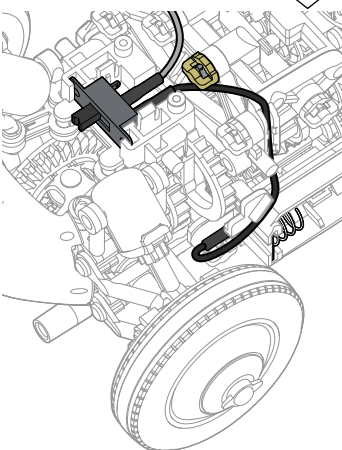
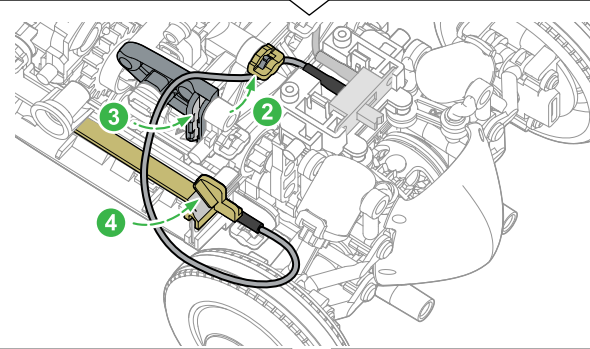
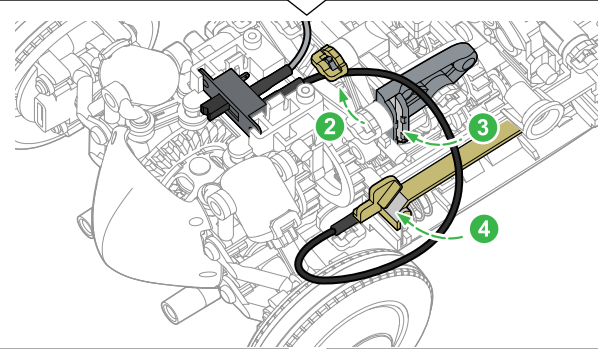
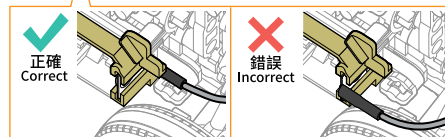
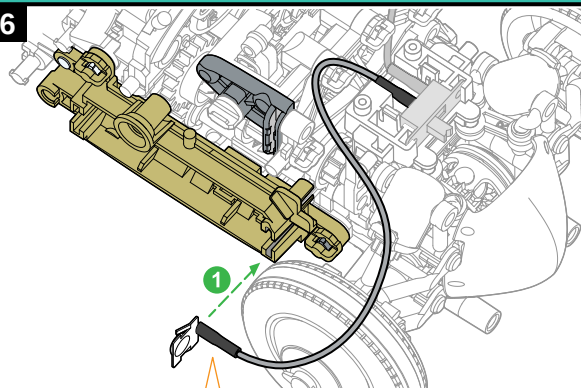
4



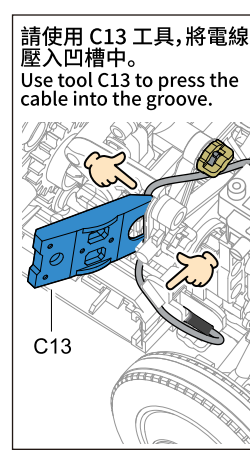
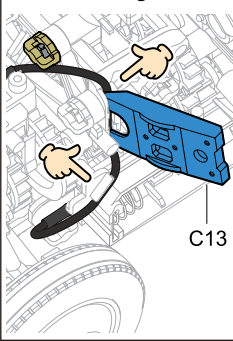
5



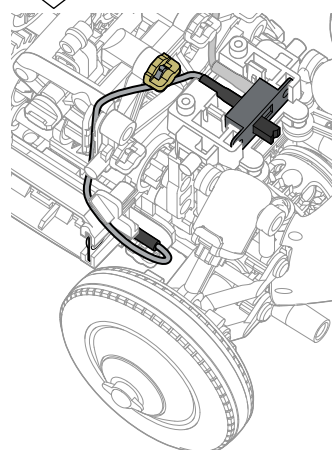
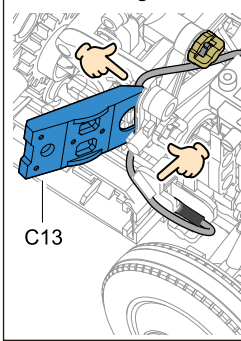
6



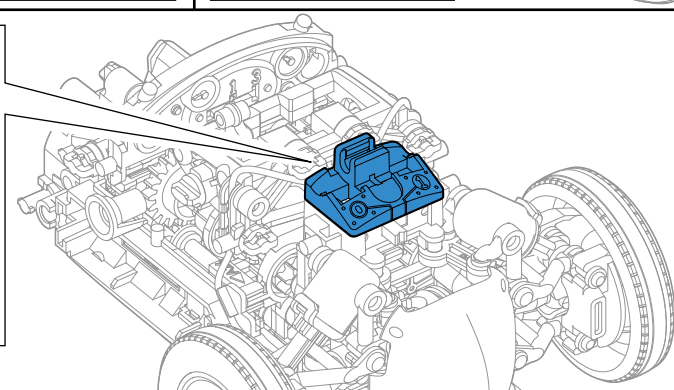
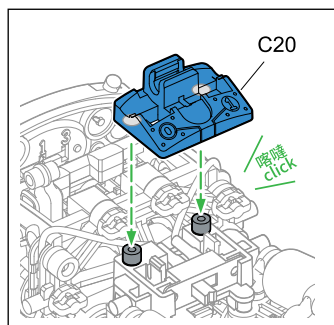
請使用 C13 工具，將電線壓入凹槽中。
Use tool C13 to press the cable into the groove.



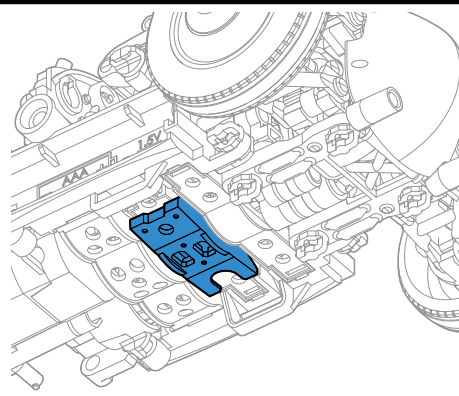
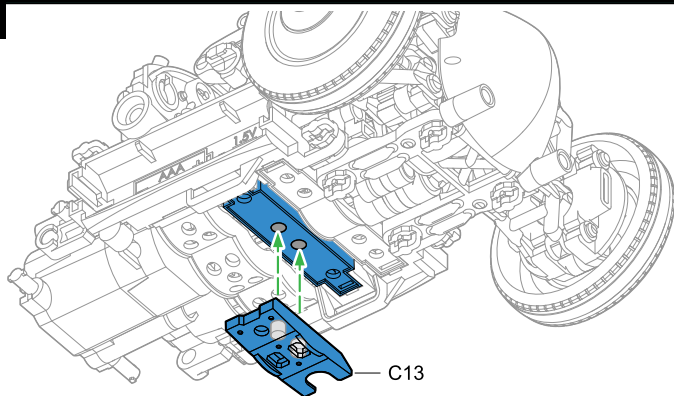
請使用 C13 工具，將電線壓入凹槽中。
Use tool C13 to press the cable into the groove.



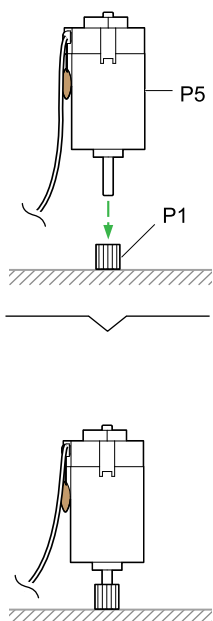
7



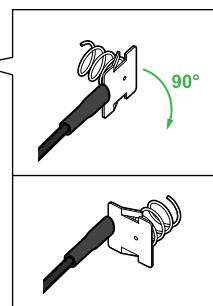
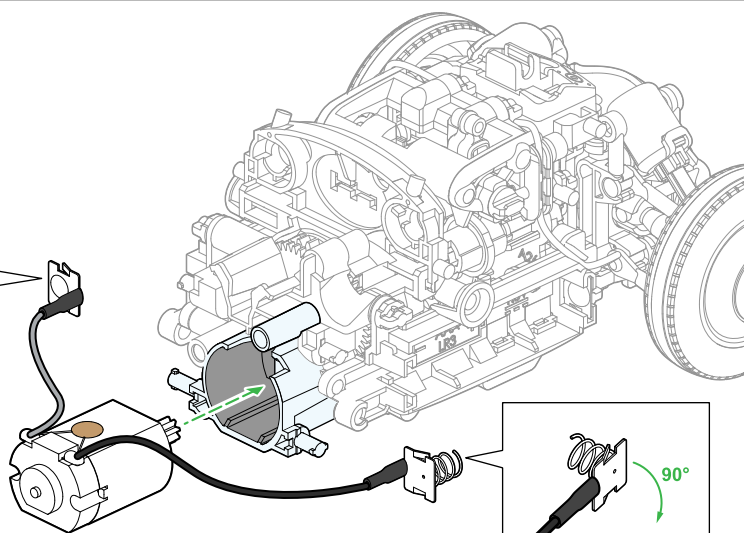
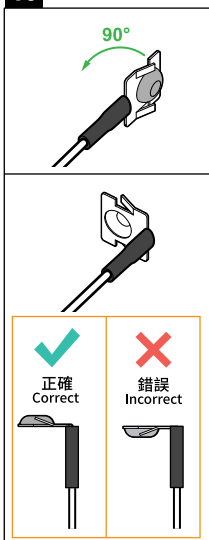
8



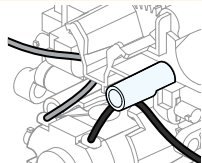
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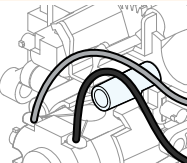
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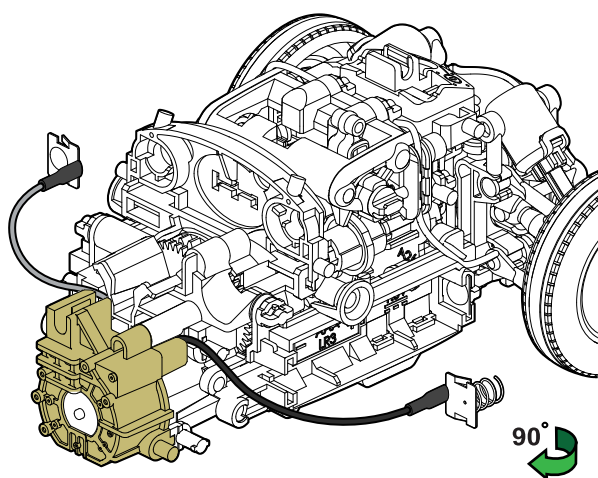
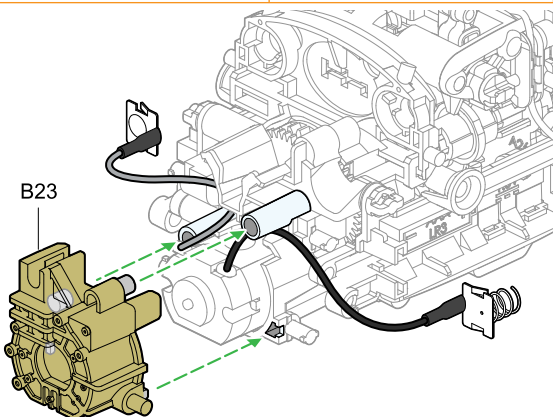
✓
正確
Correct



✗
錯誤
Incorrect



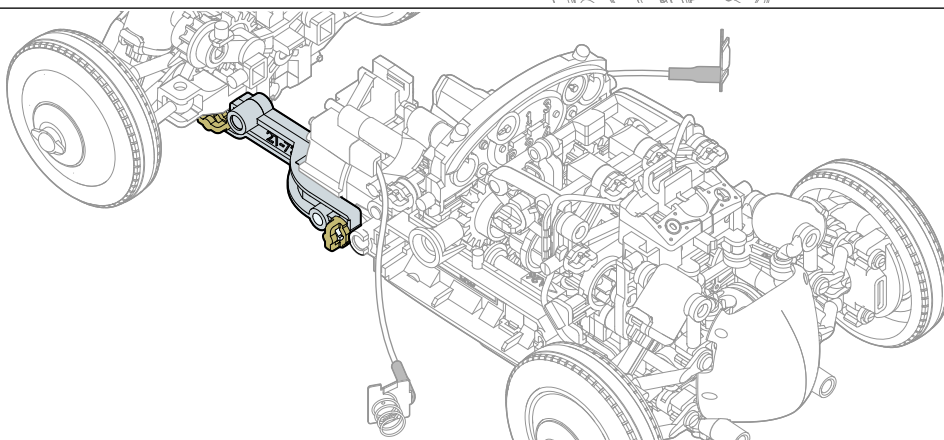
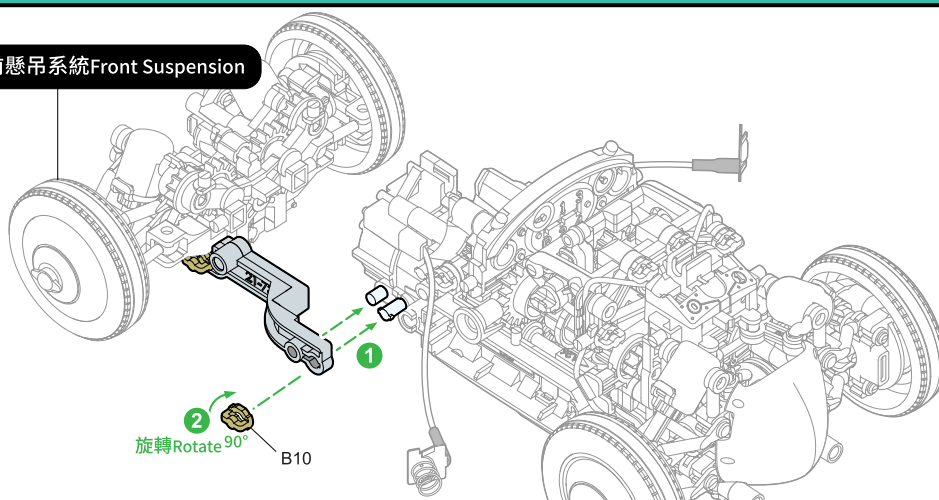
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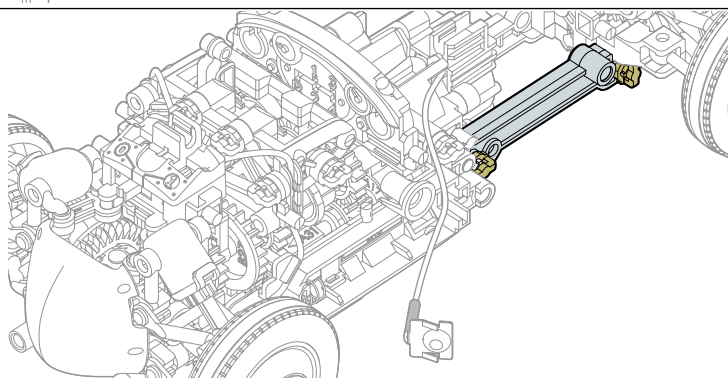
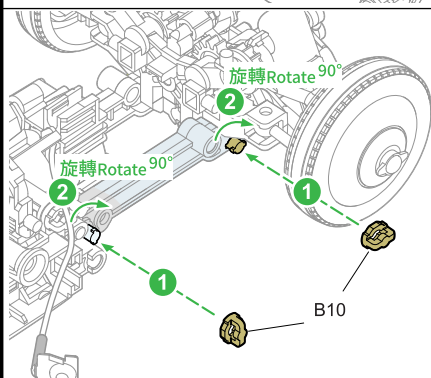
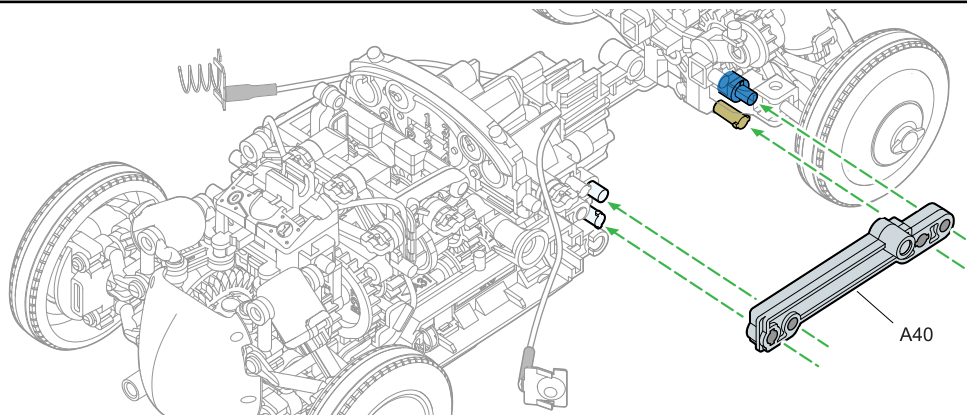
90°

11

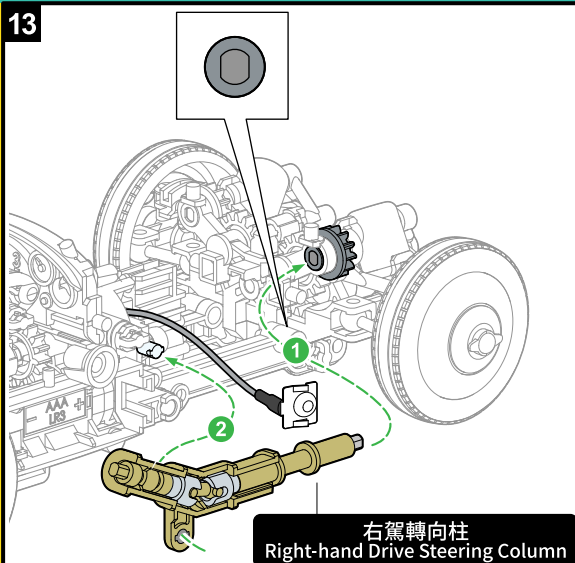
前懸吊系統 Front Suspension



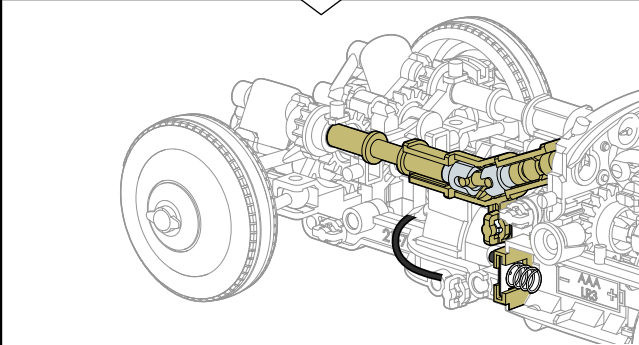
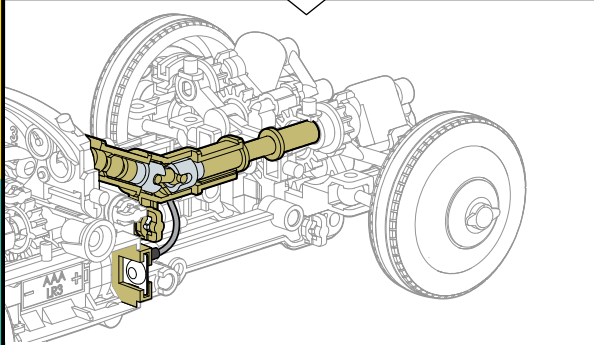
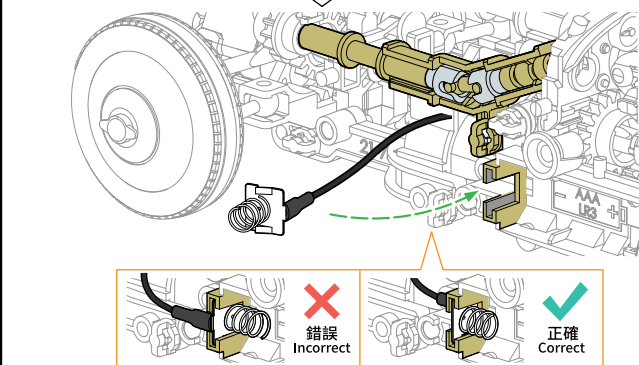
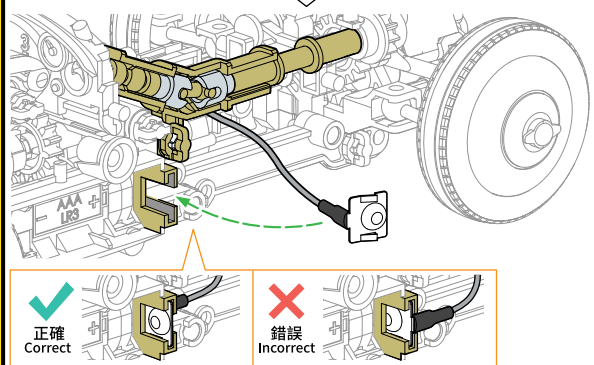
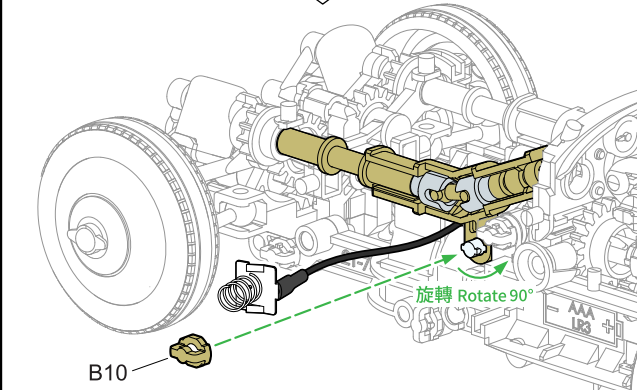
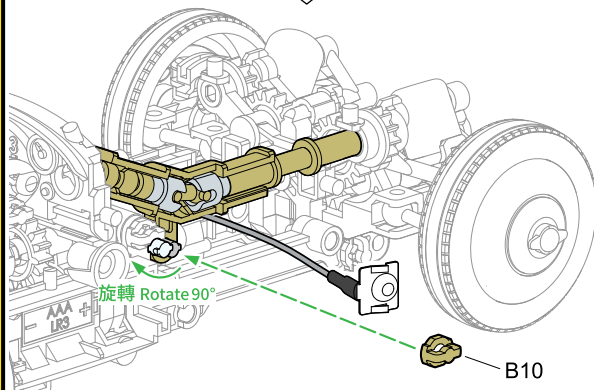
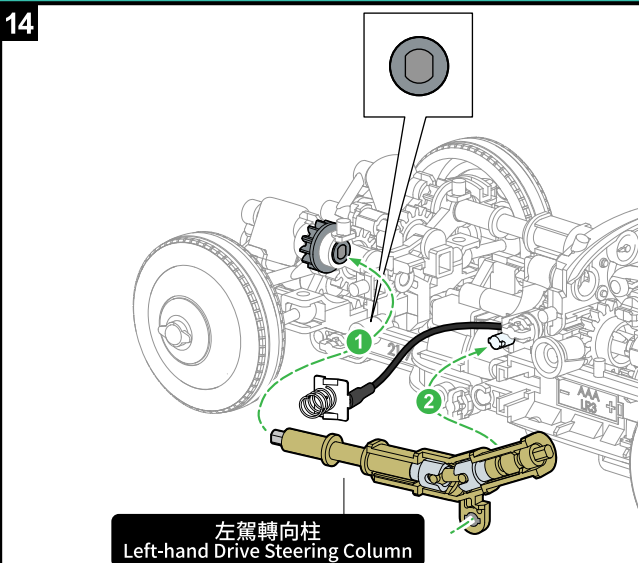
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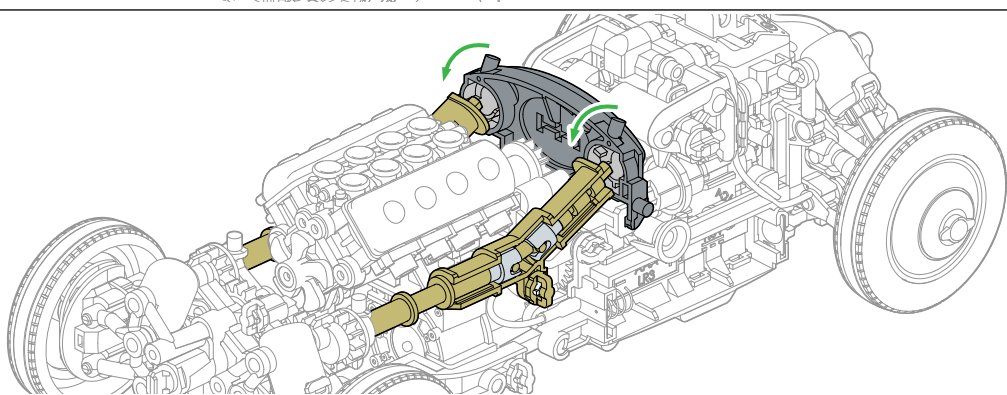
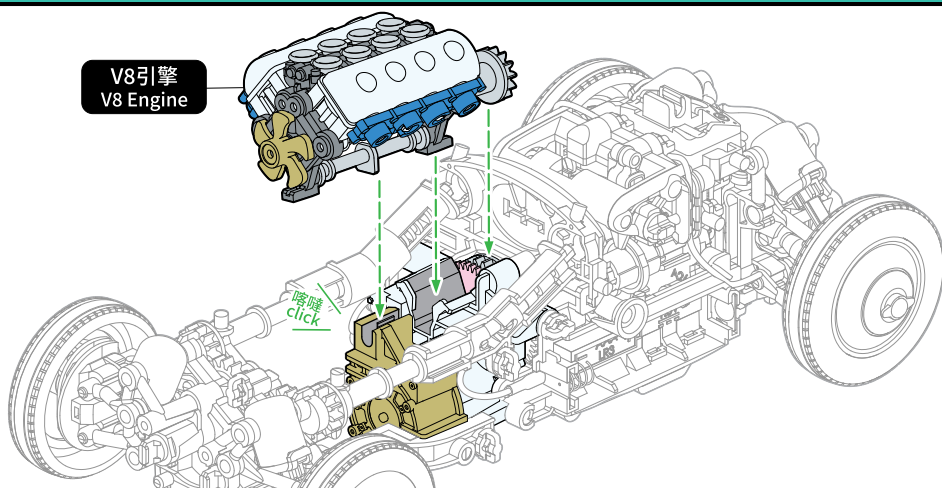
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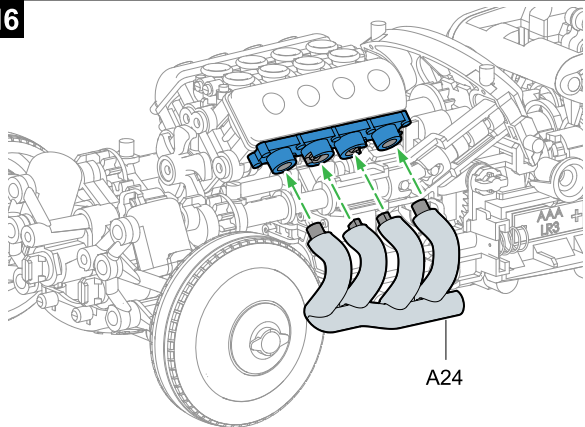
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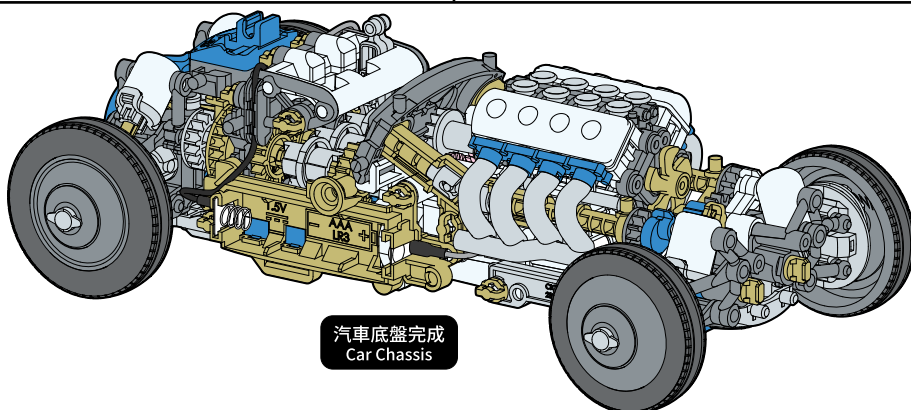
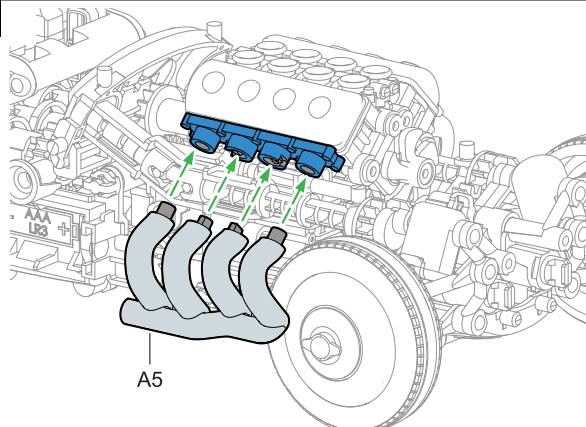
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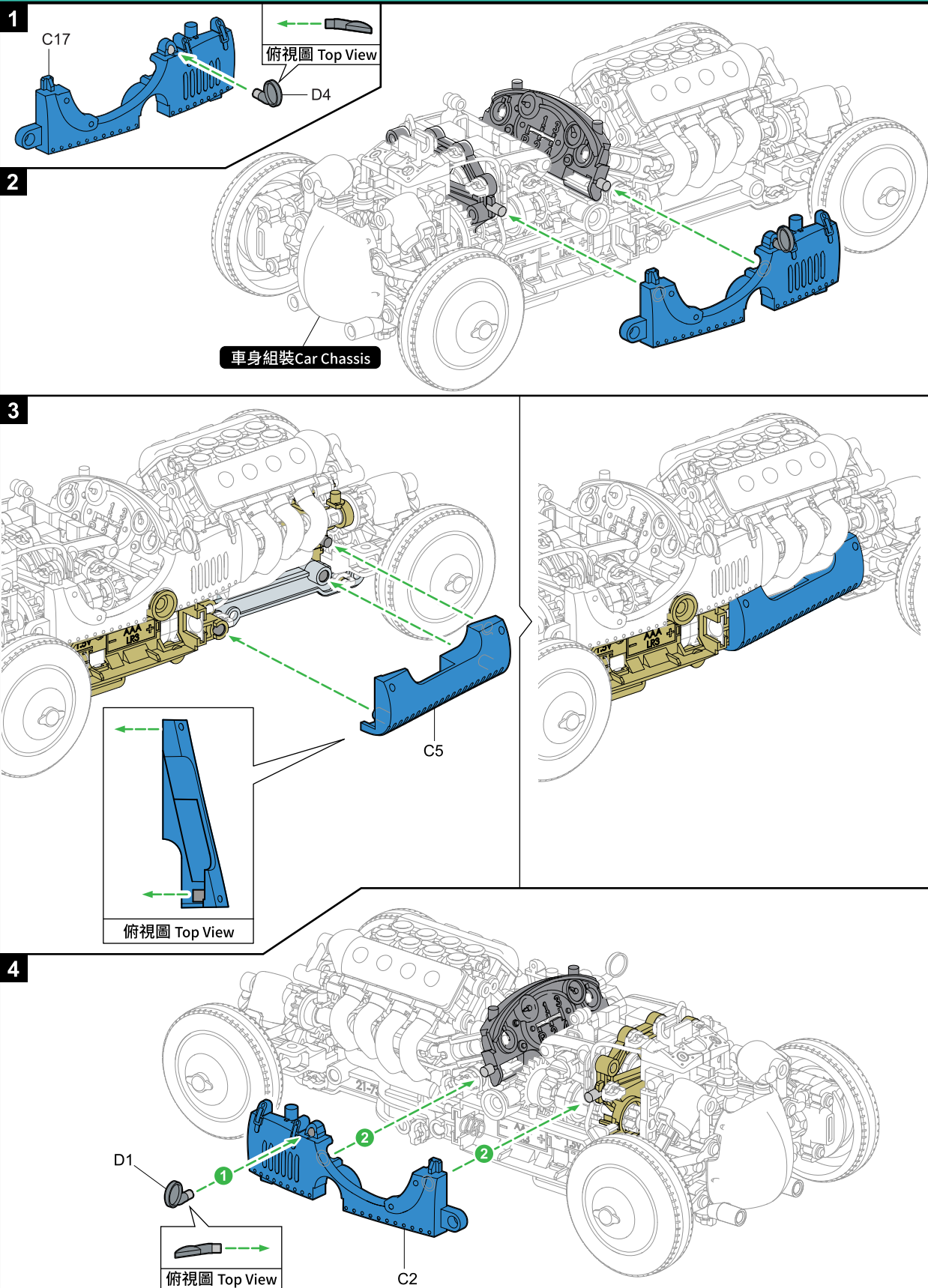


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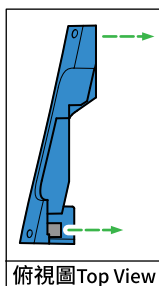
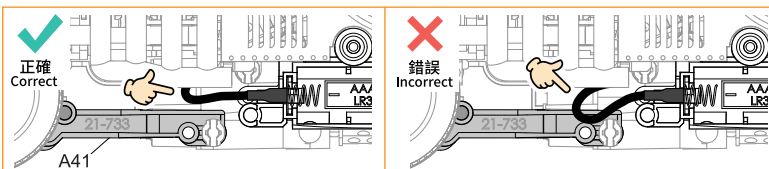


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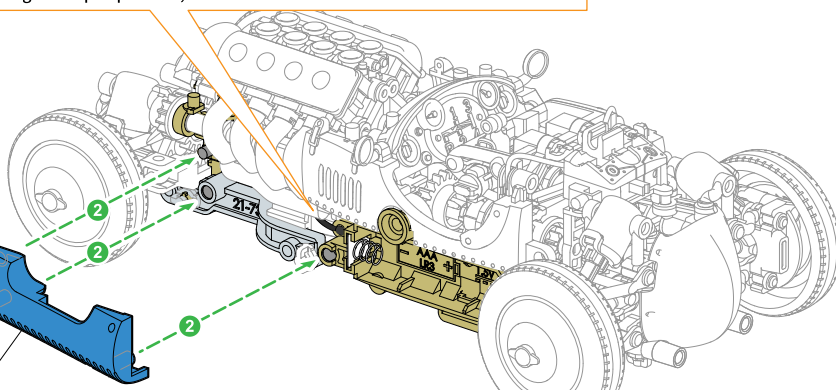




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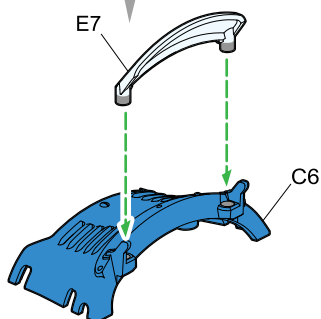


C4

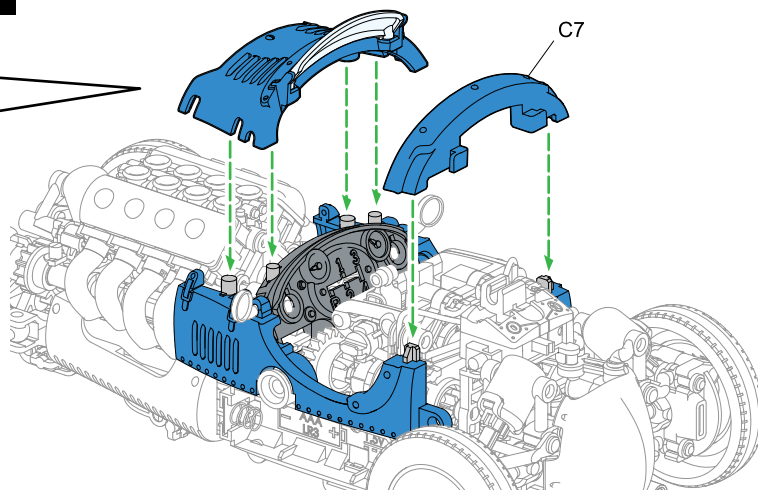


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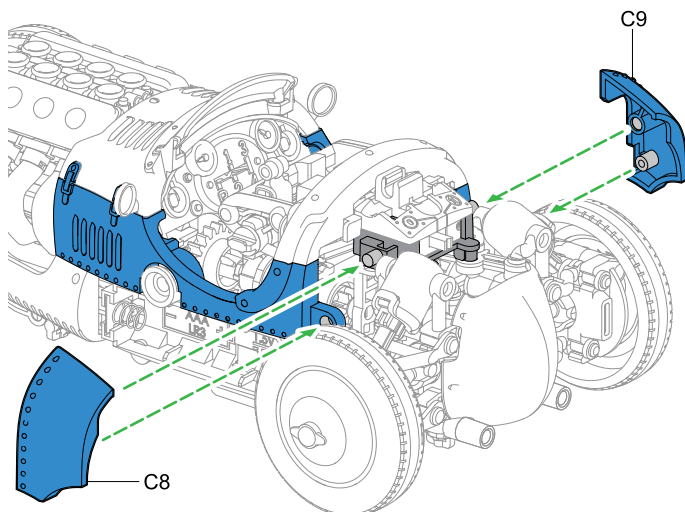
! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.



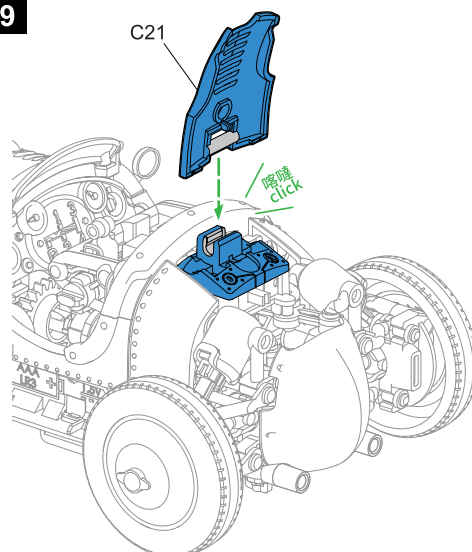
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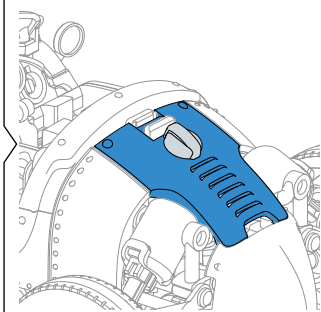
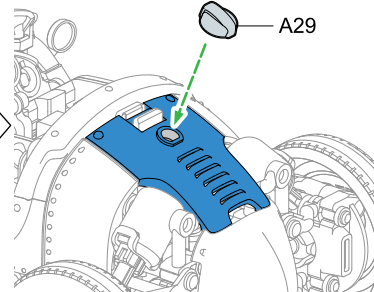
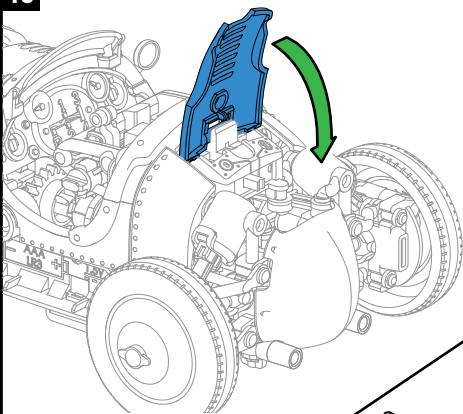
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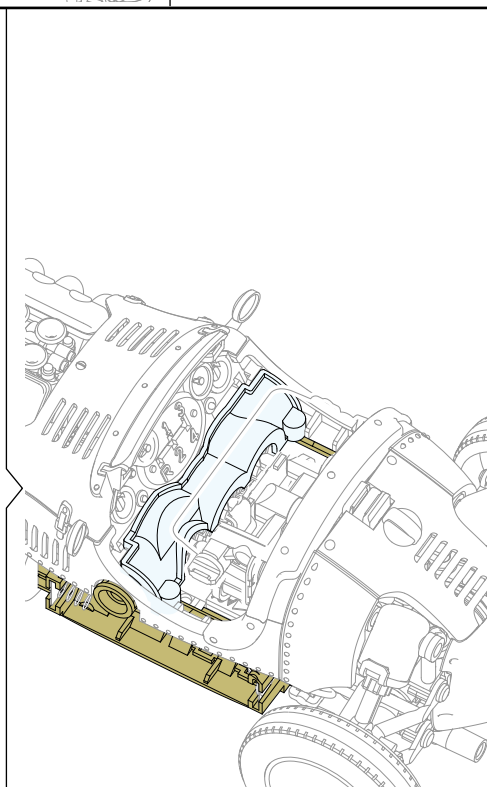
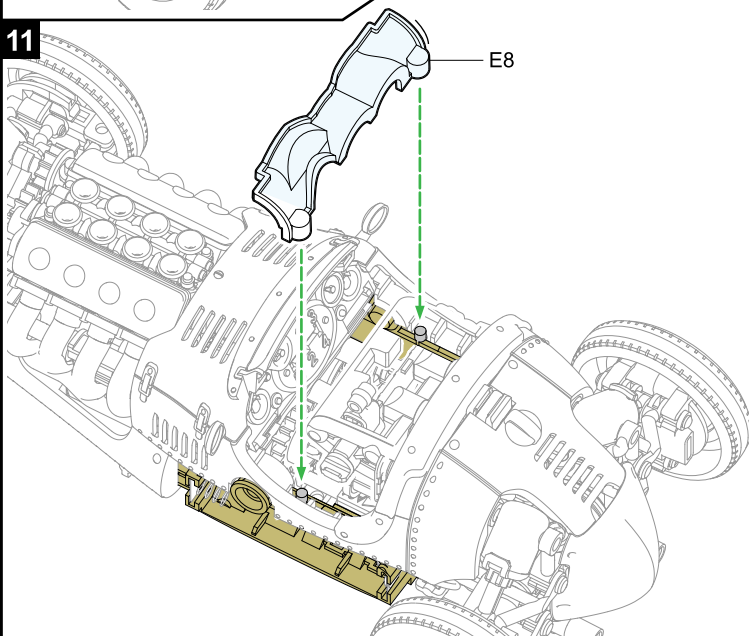
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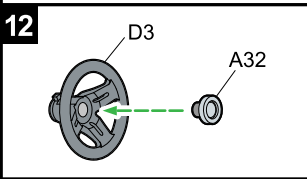
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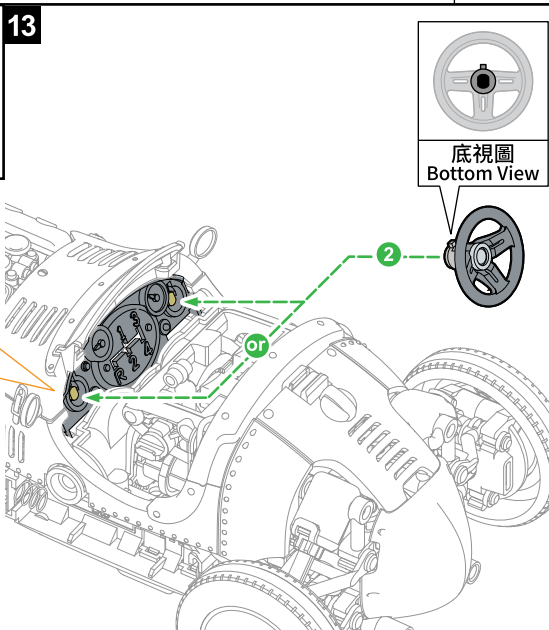
11



12



13



① 請保持前輪筆直，確保 B28 能正確安裝到指定位置。(如下圖所示)
Keep the front wheels straight so that part B28 fits into place, as shown in the illustration below.

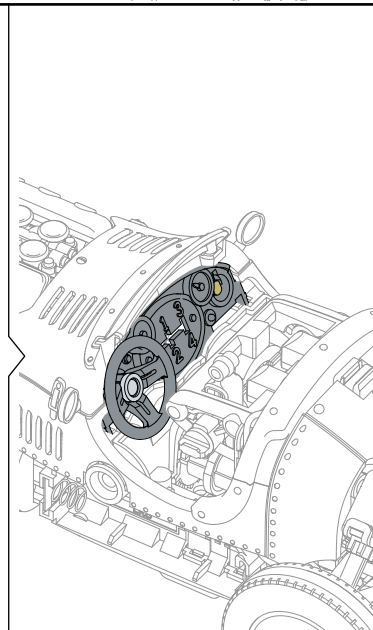
B28



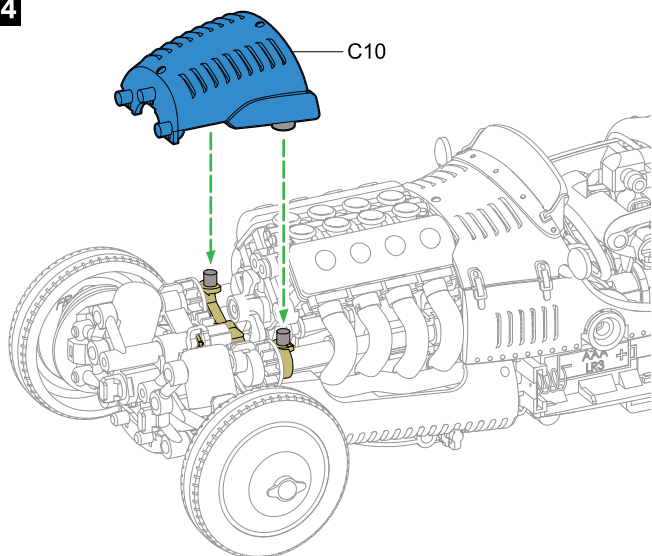
正確
Correct



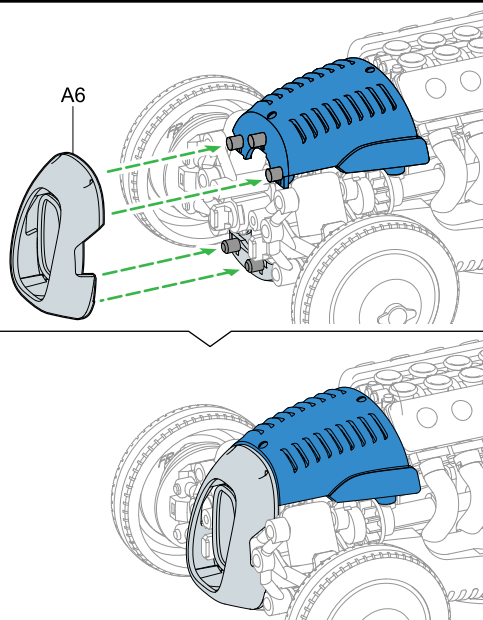
錯誤
Incorrect



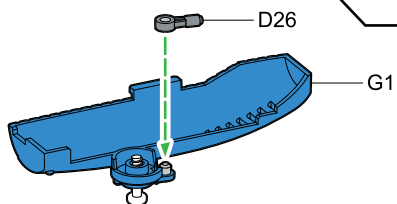
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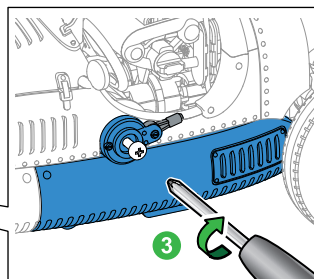
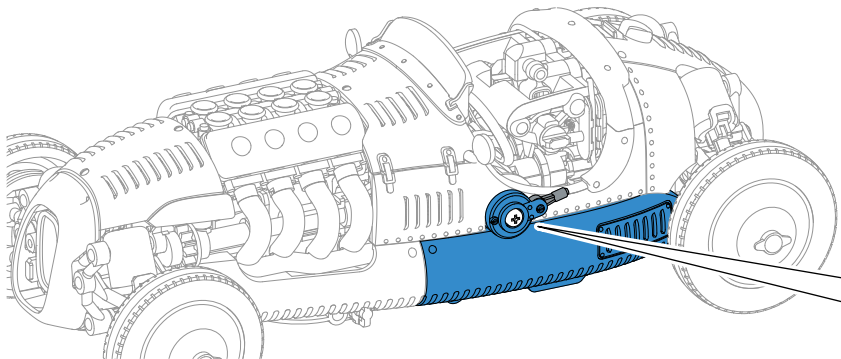
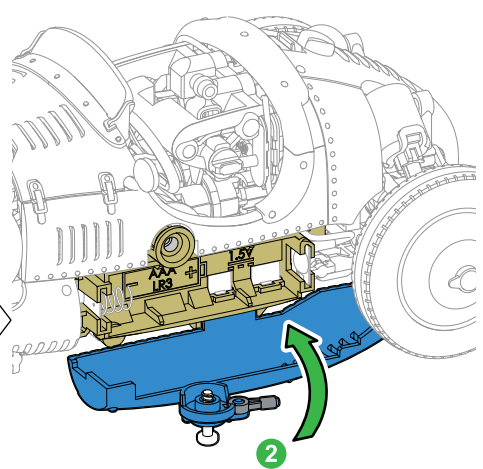
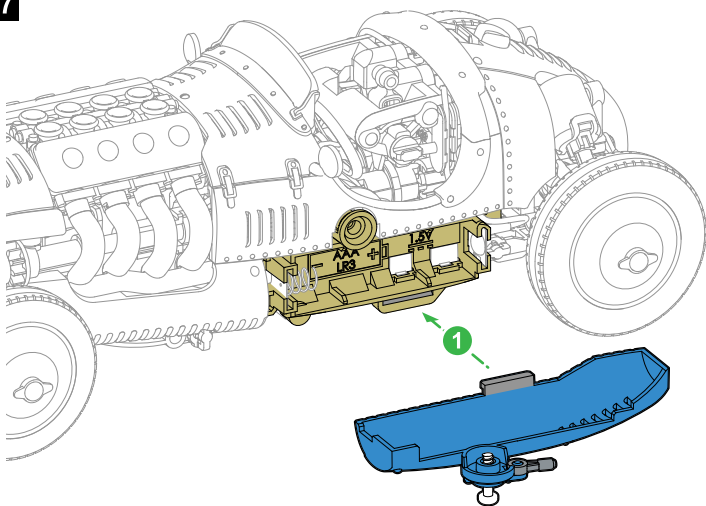
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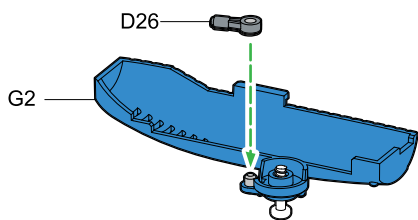
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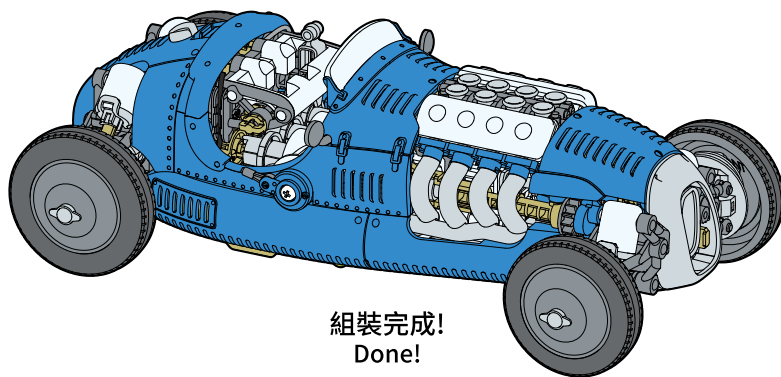
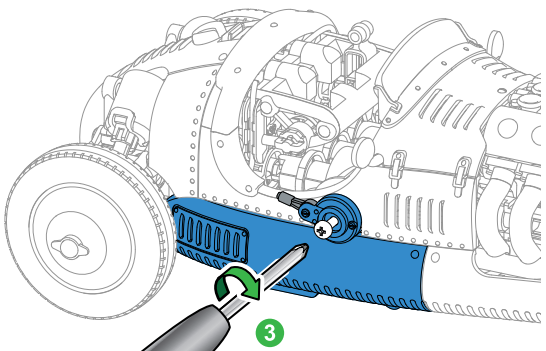
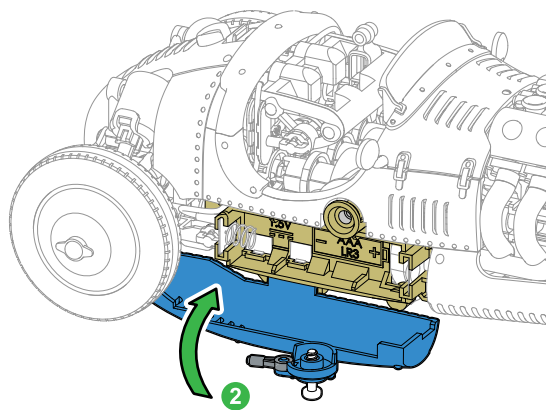
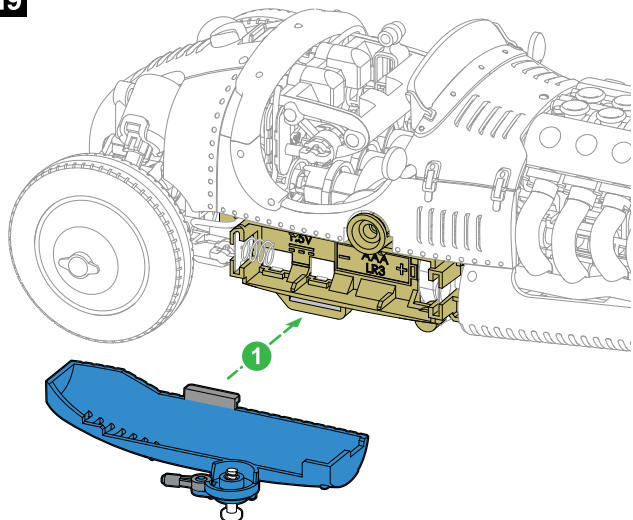
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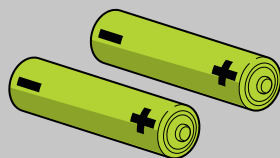


19



組裝完成!
Done!

電池安裝 Battery Installation

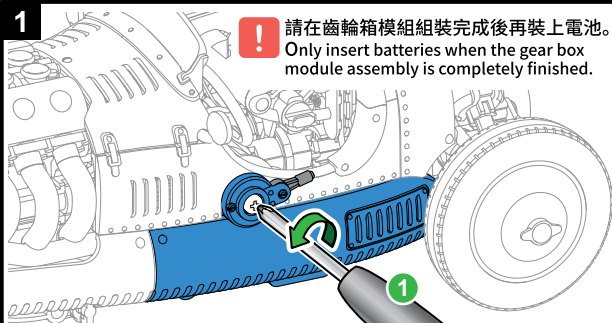


建議使用鹼性電池(Battery(AAA) x 2
Alkaline batteries are recommended

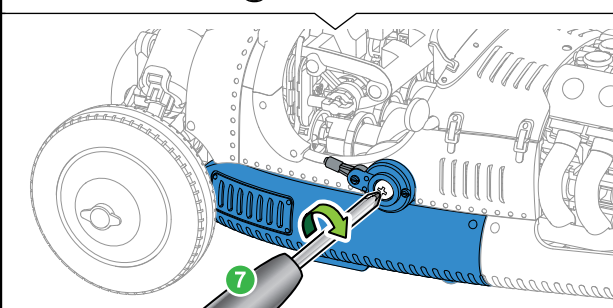
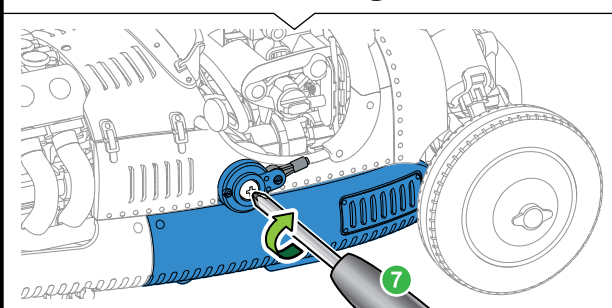
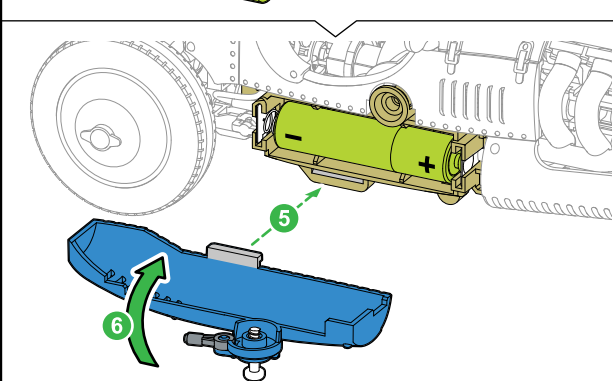
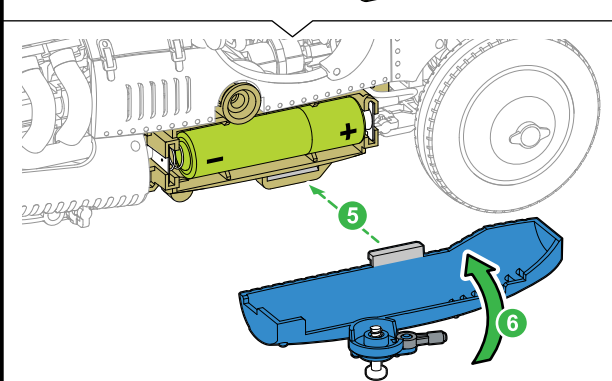
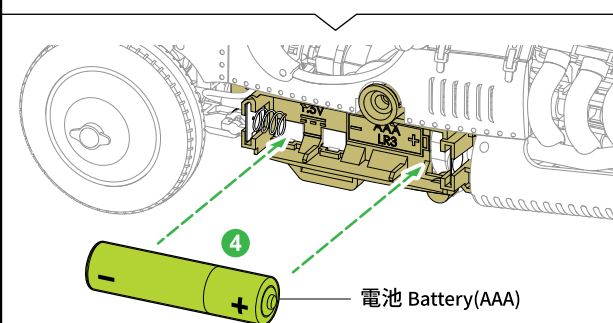
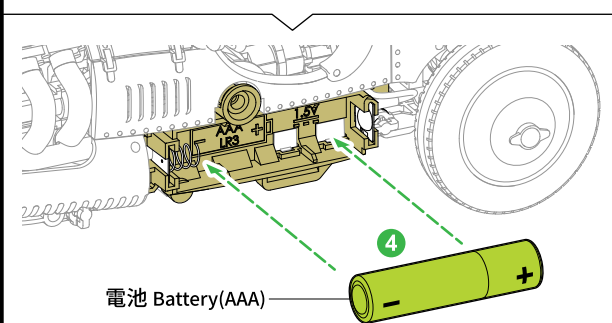
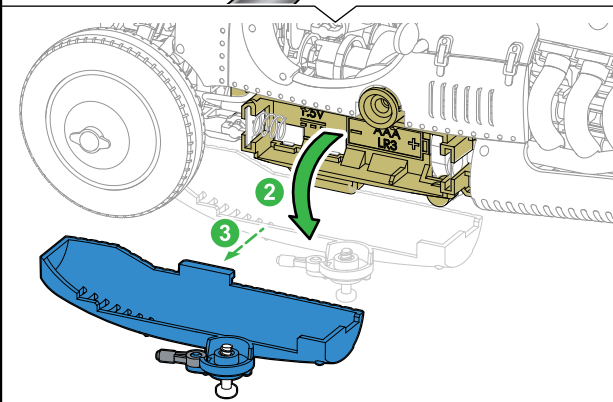
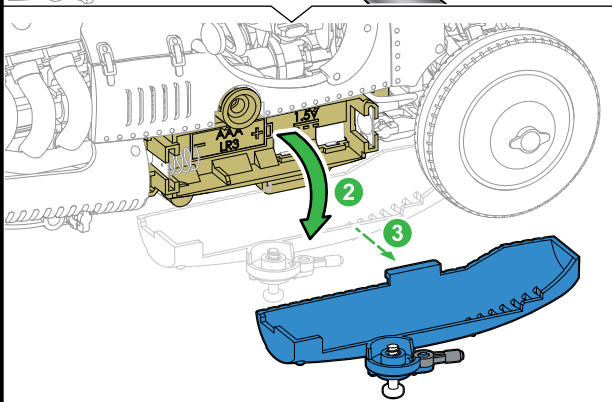
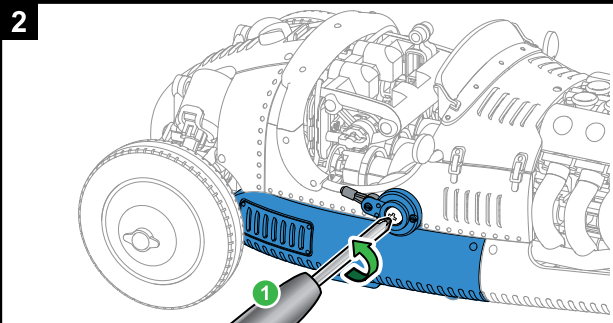
- 電池的安裝和更換應由成人操作或在成人監督下進行。
Removal and replacement of batteries should be carried out by adults or under adult supervision.
- 避免在電池盒內或電池端子之間造成短路。
Avoid short circuiting the contacts in the battery compartment or the battery terminals.
- 請將耗盡的電池從產品中移除，以避免漏液。
Remove exhausted batteries from the product to avoid leakage.
- 請勿混合使用舊電池與新電池，或不同類型的電池。
Do not mix used batteries and new batteries or batteries of different types.
- 請勿混合使用鹼性電池、標準（碳鋅）電池或可充電（鎳鎘）電池。
Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.
- 電池應按正確的極性插入。
Batteries are to be inserted with the correct polarity.
- 請勿嘗試為不可充電的電池充電。
Do not attempt to recharge non-rechargeable batteries.
- 可充電電池只能在成人監督下充電。
Rechargeable batteries are only to be charged under adult supervision.
- 可充電電池在充電前需從玩具中取出。
Rechargeable batteries are to be removed from the toy before being charged.
- 玩具連接的電源不得超過建議的數量上限。
The toy is not to be connected to more than the recommended number of power supplies.

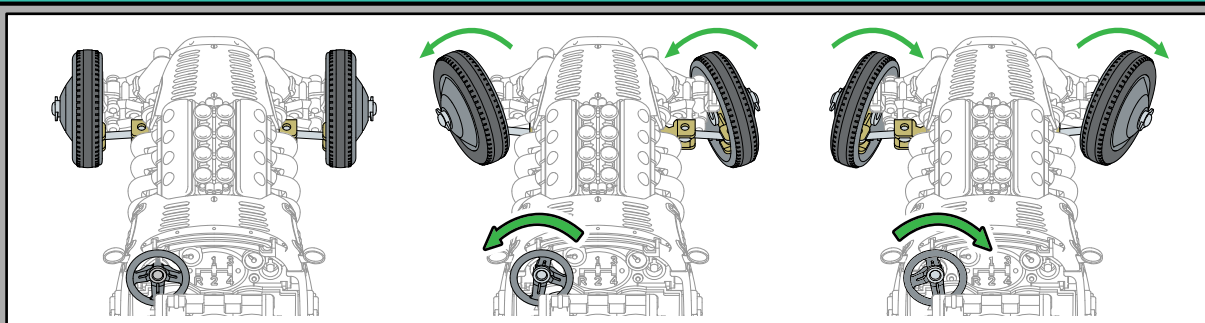
1

❗ 請在齒輪箱模組組裝完成後再裝上電池。
Only insert batteries when the gear box module assembly is completely finished.

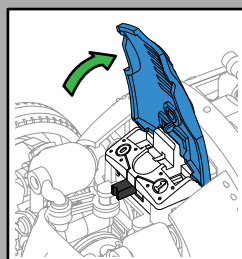


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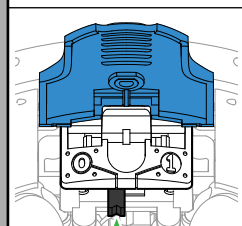




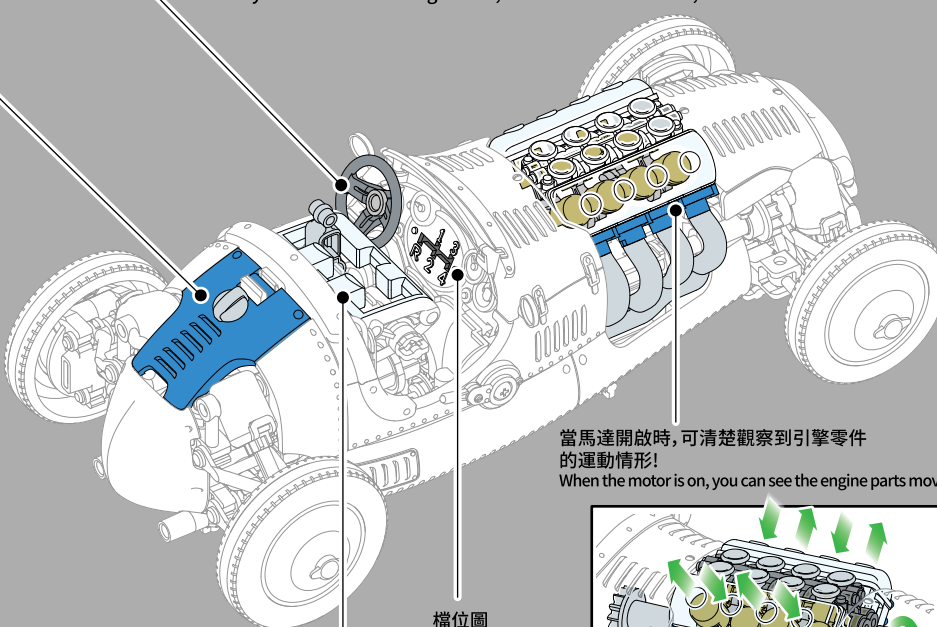
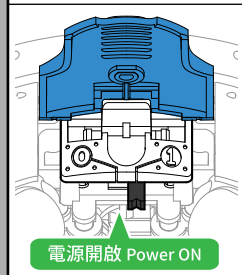
當方向盤旋轉時，前輪會一起轉動，使車輛完成轉向動作。
When you turn the steering wheel, the front wheels turn, and the car can steer.



電源關閉 Power OFF

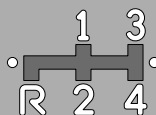


電源開啟 Power ON

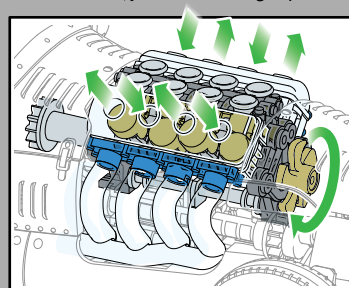


當馬達開啟時，可清楚觀察到引擎零件的運動情形！
When the motor is on, you can see the engine parts move!

檔位圖
Gear Shift Pattern

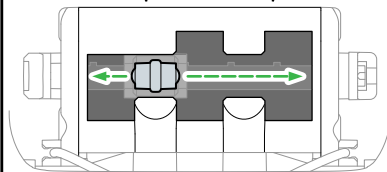


開啟電源，將電力傳送至馬達齒輪箱與手排變速系統。
Turn on the power to send energy to the motor gearbox & manual transmission

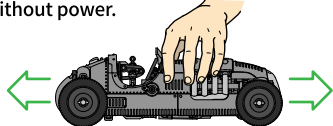


利用排檔桿切換，調整車輛的方向與快慢。Use the gear shifter to change the car's direction and speed.

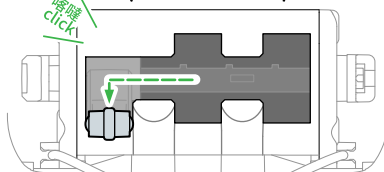
N (空檔Neutral)



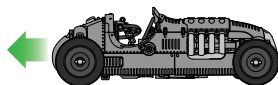
後輪即使在沒有動力的情況下，也能自由旋轉。
The rear wheels can spin freely — even without power.



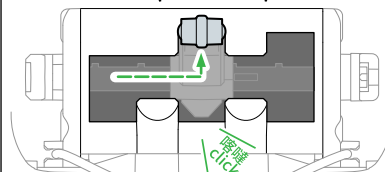
R (倒退檔Reverse)



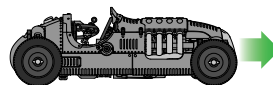
電源開啟時，後輪獲得動力，車輛即可倒退行駛。
When the power is ON, energy goes to the rear wheels and the car moves backward.



1 (1檔Gear 1)



電源開啟時，後輪獲得動力，車輛即可向前行駛。
When the power is ON, energy goes to the rear wheels and the car moves forward.



2-4 檔：請依照上述方式換檔。速度關係：R=1<2<3<4

提示：建議在電源開啟後再進行換檔，操作更順暢。

Gears 2 to 4 - Shift gears the same way as above. Speed: R=1<2<3<4
Tips: It's easier to shift gears after the power is turned on!



請先將車子抬高離地，再進行換檔操作。
Lift the car off the ground before changing gears.

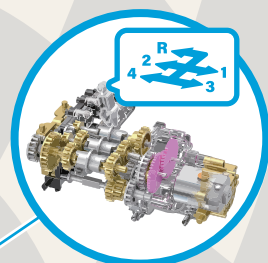
復古美學 經典收藏 Retro Aesthetic • Classic Collection

精密還原經典賽車機械結構，融合工藝美學與收藏價值的復古模型。

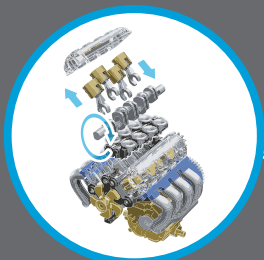
A meticulously crafted vintage model that faithfully recreates the mechanical structure of classic race cars, blending artisanal aesthetics with collectible value.



後懸吊系統
Rear Suspension



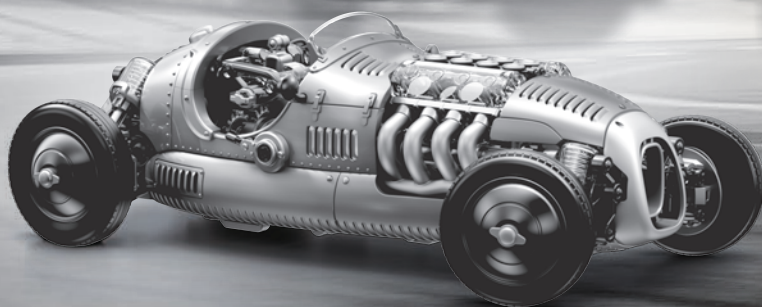
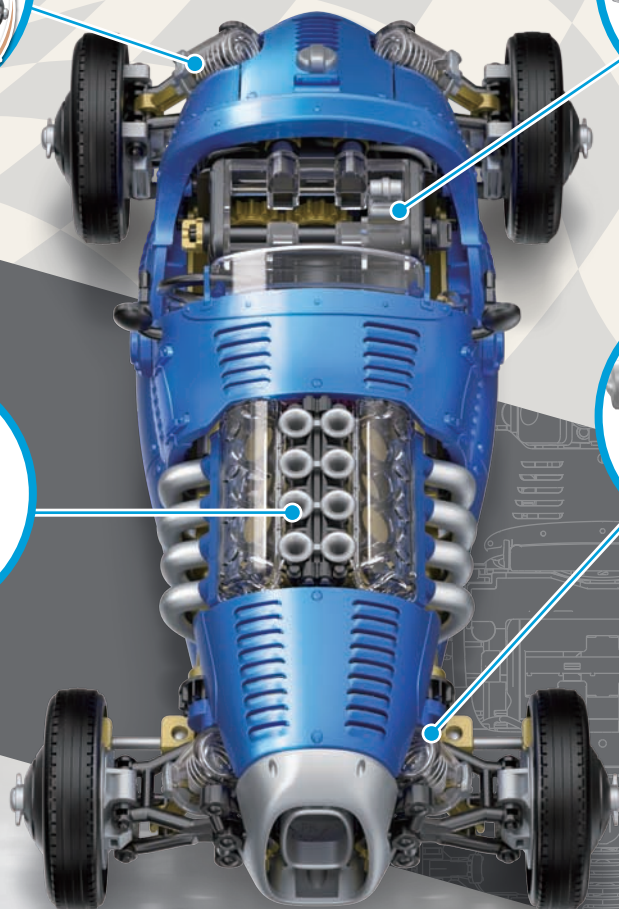
4+R變速箱
4 Speed Manual
Transmission

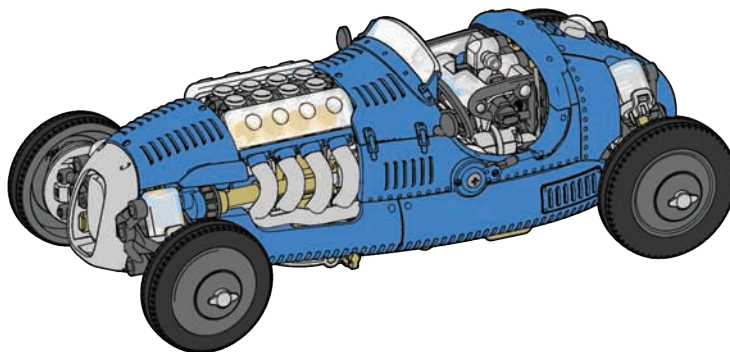


仿真V8引擎
V8 Engine

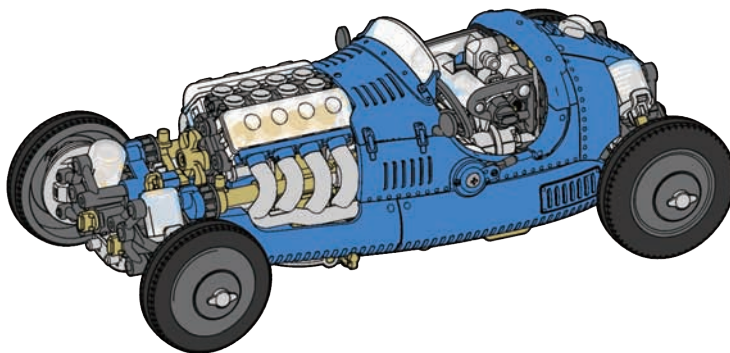


前懸吊系統
Front Suspension



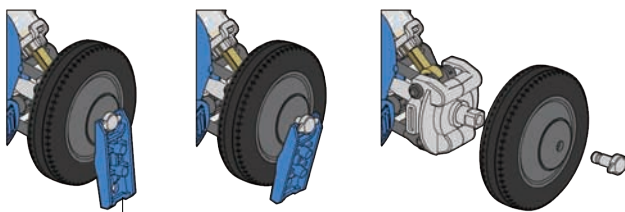
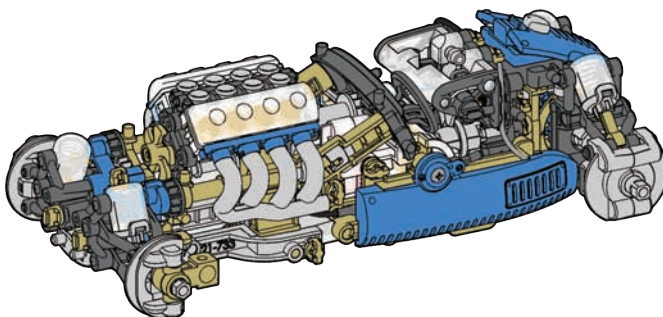


感謝你一起參與這段充滿樂趣的組裝體驗。
Thank you for joining the fun building experience.



可拆卸觀賞內部結構

Different looks



C13 (要拆卸輪胎時, 請依照上方圖示操作。)

C13 (To remove the tires, please refer to the picture above.)

猜你也會喜歡 ——



GE-732

空氣動力超跑



GE-735

AI編程變色龍-酷迪



GE-639

水星射手



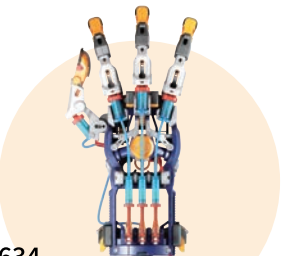
GE-896

AI 鼓掌刺蝟



GE-618

12合1百戰天龍



GE-634

液壓機械手套



GE-731

花園鰻-曼尼Manny



GE-638

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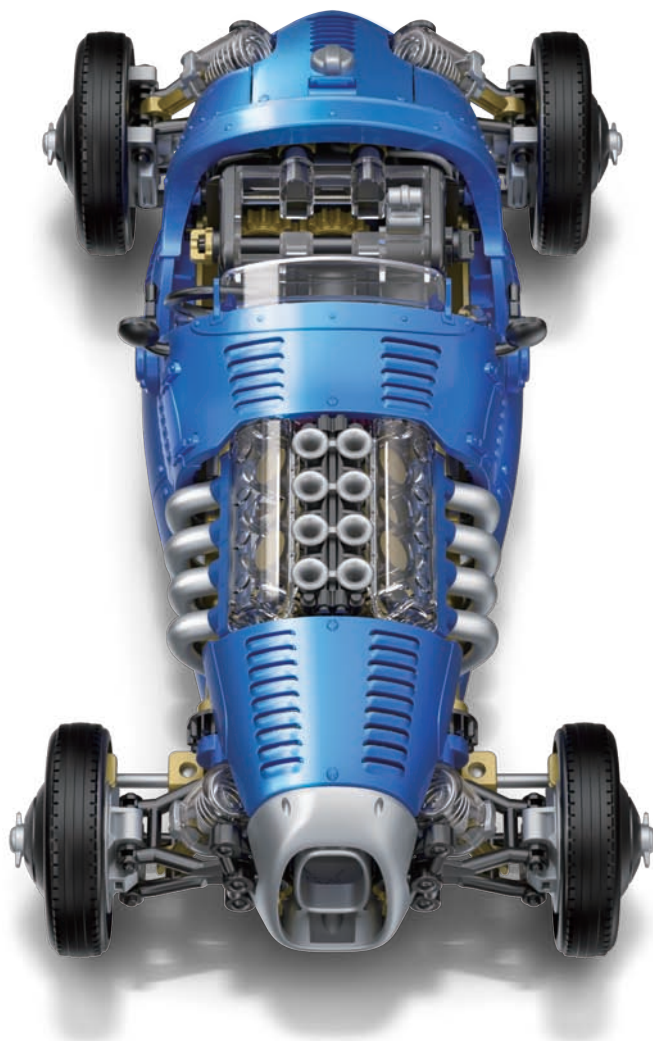




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