

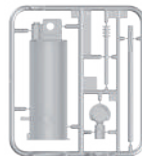
GE-732



科學玩具

MAKING · LEARNING · PLAYING

空氣動力超跑



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



1 手作模型組裝
邏輯力 up



2 科學概念學習
知識力 up



3 多樣創意玩法
創意力 up

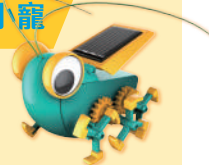
⚙️ 科學動力



🔋 電池動力



💖 療癒小寵



💻 教學編程



🏆 競技遊戲



★ 模型收藏



空氣動力超跑

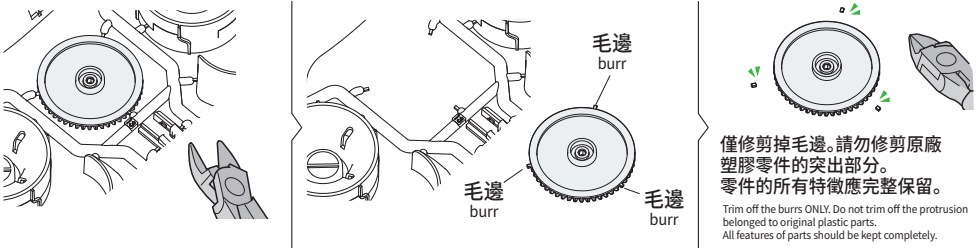
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組裝前須知 Must-know

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



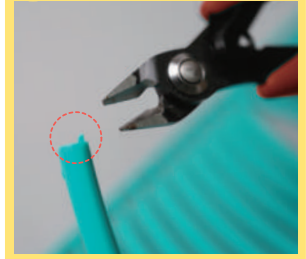
用剪刀剪
Cut with scissors



用手擰
Twist it with your hand



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



建議使用專業模型鉗
Suggest using model cutters



PM-200



PM-202



PM-203

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不起作用。
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.

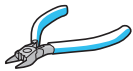
✓
正確
Correct



✗
錯誤
Incorrect



自備工具 Tool You May Need



斜口鉗
Diagonal Cutter

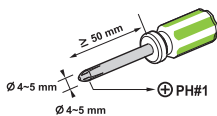


槌子
Hammer

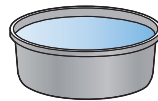


衛生紙
Tissue Paper

建議尺寸 Recommended Size













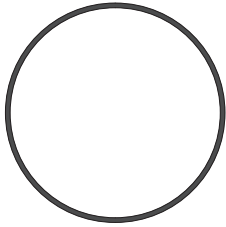





螺絲起子
Screwdriver



水盆
Basin

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.

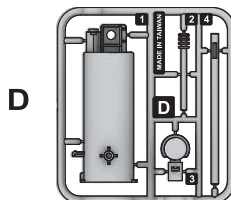
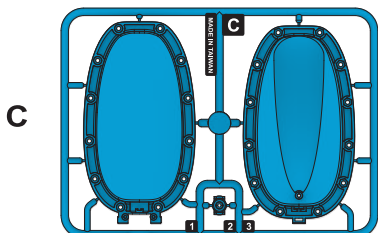
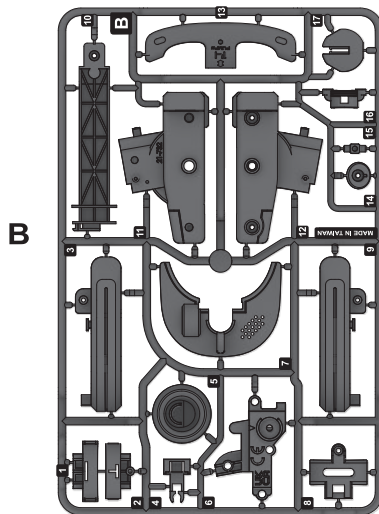
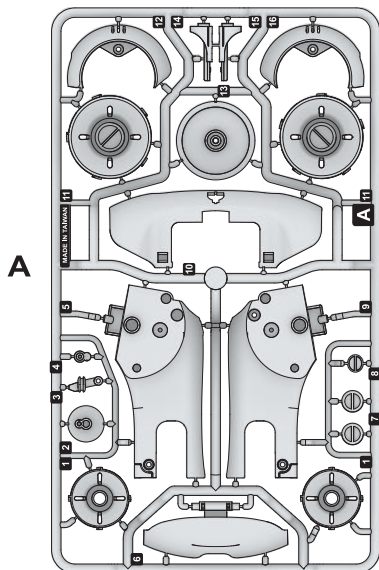
P1 螺絲 Tapping Screw  1:1 10 pcs	P2 機械螺絲 Machine Screw  1:1 12 pcs	P3 六角軸 Hex Shaft  1:1 12 pcs	P4 閥門(透明藍) Valve (Clear Blue)  1:1 2 pcs
P5 圓軸 Round Shaft		P6 六角軸(短) Hex Shaft (Short)	
 1:1 1 pc		 1:1 1 pc	
P7 六角軸(長) Hex Shaft (Long)			
 1:1 1 pc			
P8 O型環(小) O-ring (Small)	P9 O型環(中) O-ring (Medium)	P10 O型環(大) O-ring (Large)	P13 橡膠圈 Rubber Ring
 1:1 2 pcs	 1:1 1 pc	 1:1 1 pc	
P11 O型環(特大) O-ring (Extra Large)		P12 矽膠管 Silicone Tube	
 1 pc		 1 pc	
P14 海綿 Sponge		P15 油袋 Oil Bag	
 1 pc 備用零件 spare parts		  1 pc	

塑膠模型零件 Plastic Parts



需要時再剪切塑膠部件，請勿提前剪切。

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



空氣動力

≡ AIR ENGINE RACER ≡

超跑

產品介紹 Product introduction

這是一款由空氣驅動的概念車。它不需要馬達，也不需要電池，而是配備了一個單缸單活塞的氣動引擎。透過內建的泵，空氣被壓入車輛的空氣箱。這款引擎的運作原理與傳統汽車完全不同。當壓縮空氣進入氣缸時，它會驅動曲軸旋轉，從而產生動力。這款產品展示了未來汽車驅動模式的潛力，體現了人類對新技術的不懈追求。如果你對未來充滿好奇並擁有豐富的想像力，為什麼不親身體驗一下這款空氣驅動車的魅力呢？讓我們一起踏上通往未來的旅程，期待科技如何改變世界。

This is a concept car powered by air. No motors, no batteries needed; instead, it is equipped with a pneumatic engine with a single cylinder and piston. Air is pumped into the car's air tank through a built-in pump. Its engine operates on a principle completely different from traditional cars. When compressed air enters the cylinder, it drives the crankshaft to rotate, generating power. Due to the rapid frequency of the piston's air intake and exhaust, the engine even sounds like a real one, just like the cars we see on the road! Isn't that cool?

Assembling and operating Air Pump Car is quick and easy. It only takes a few steps to assemble the car. Just give it a little push, it can reach a maximum speed of 4 meters per second, allowing you to speed along. The car's body structure is designed to be sturdy and durable, so even if it crashes at high speed, it remains intact and undamaged.

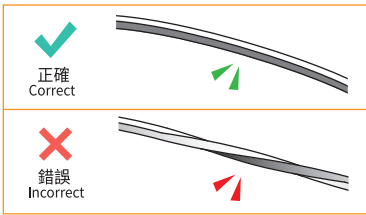
This product demonstrates the potential future drive modes of cars, as well as humanity's desire to pursue new technologies. If you're curious about the future and have a big imagination, why not experience the charm of the air-powered car firsthand. Let us embark on a journey towards the future, and anticipate how technology can change the world.



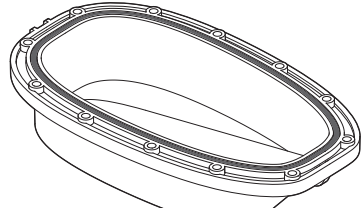
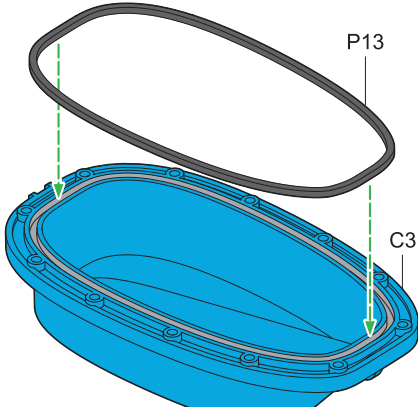
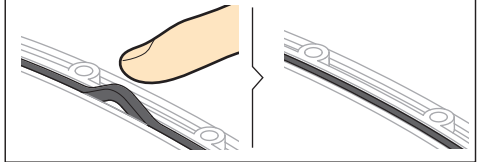
讓我們開始組裝吧！
Let's start assembling~



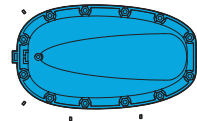
1



請向下壓以平整任何不平坦的區域。
Please press down to flatten any uneven areas.

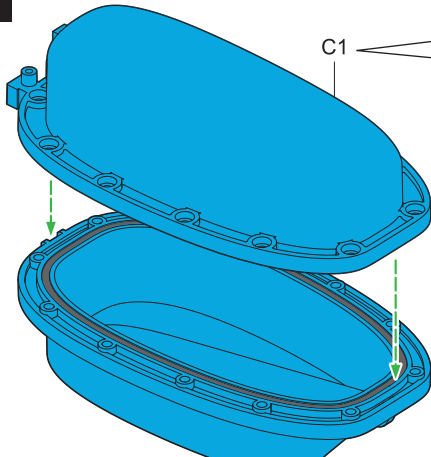


❗ 請將毛邊修乾淨
Cut off the burrs
before assembly.

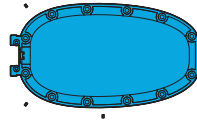


C3

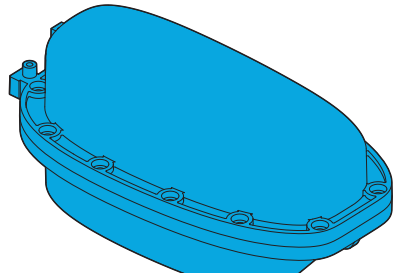
2



❗ 請將毛邊修乾淨
Cut off the burrs
before assembly.



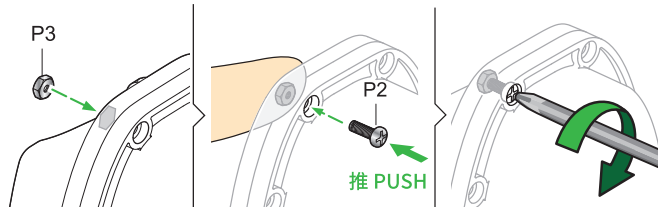
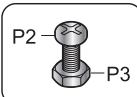
C1




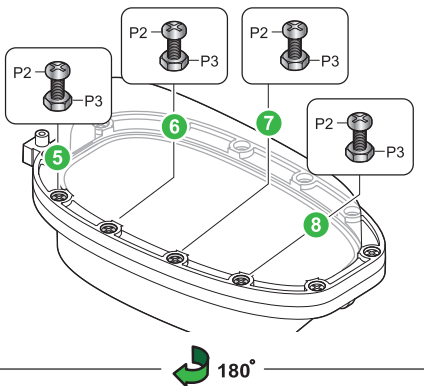
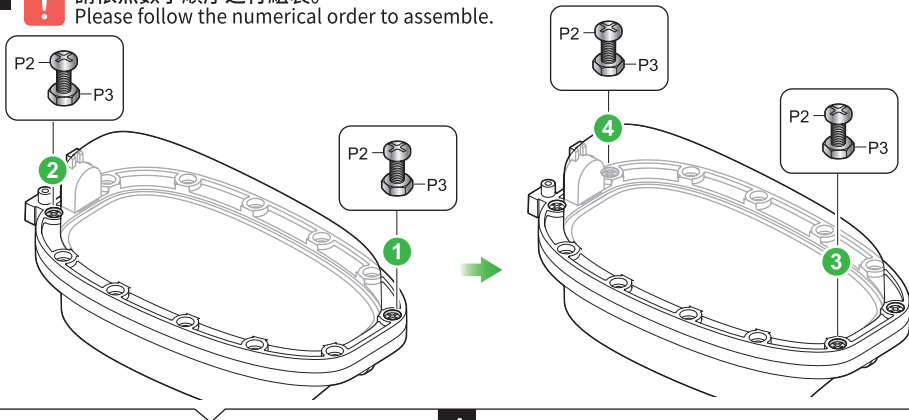
如何組裝 P2、P3
How to Assemble P2, P3

依照步驟進行組裝當出現以下圖示時出現。

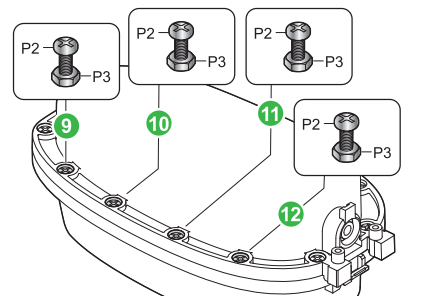
Follow the steps to assemble it when the following icon appears.




3  請依照數字順序進行組裝。
Please follow the numerical order to assemble.



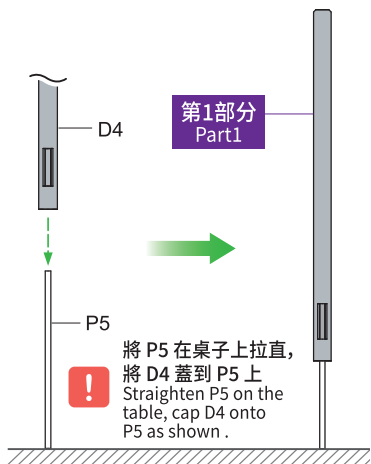
180°



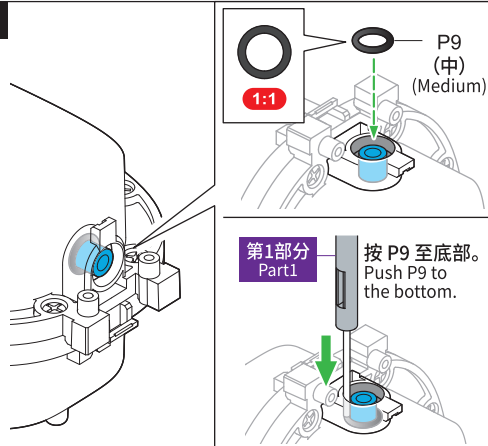
 確保 C1 和 C3 之間沒有間隙。
Make sure there are no gaps between C1 and C3.



4



5



6

P4

1:1

P8(小)
(Small)

D3

第1部分
Part1

將 P4 推到底。
Push P4 to the bottom.

錯誤
Incorrect

! 請將毛邊修乾淨
Cut off the burrs before assembly.

7

推
PUSH

喀噠
click

8

B16

! 請將毛邊修乾淨
Cut off the burrs before assembly.

9

氣缸
AIR TANK

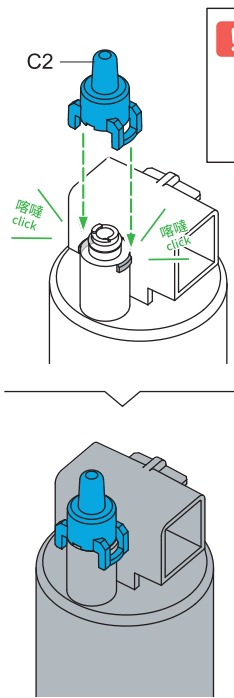
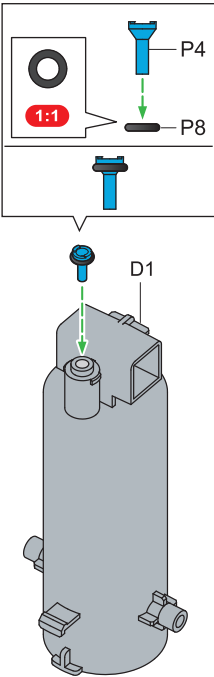
正確
Correct

錯誤
Incorrect

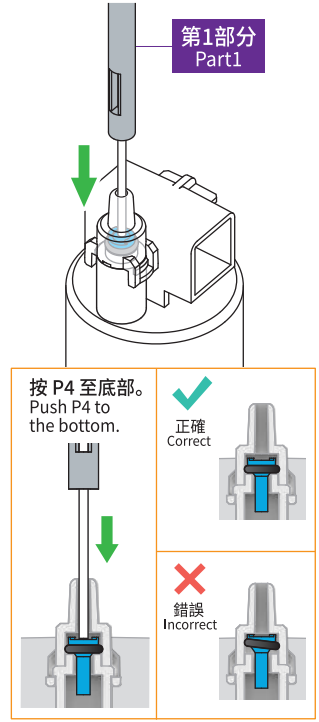
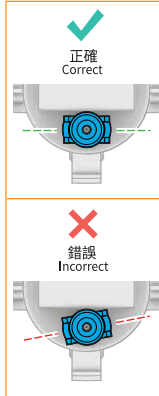
P12

泵浦組裝 Pump Assembly

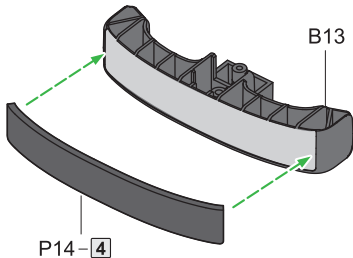
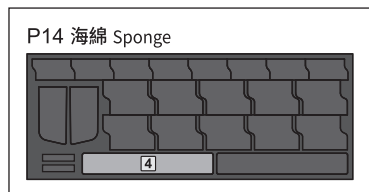
1



! 請將毛邊修乾淨
Cut off the burrs
before assembly.

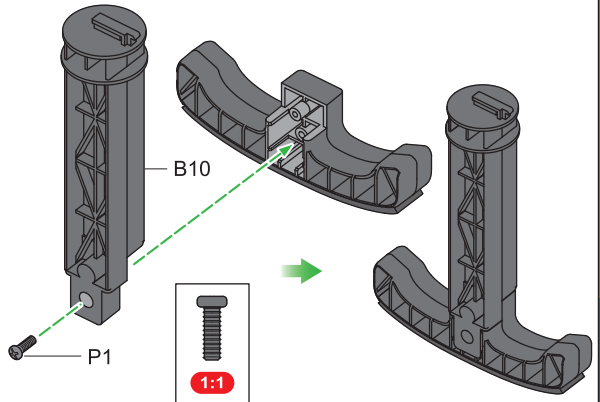


2



3

! 請將毛邊修乾淨
Cut off the burrs
before assembly.



4

! 請將毛邊修乾淨
Cut off the burrs before assembly.

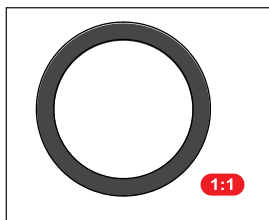
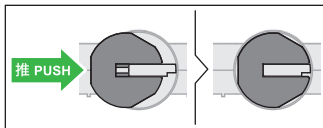


B17



B17

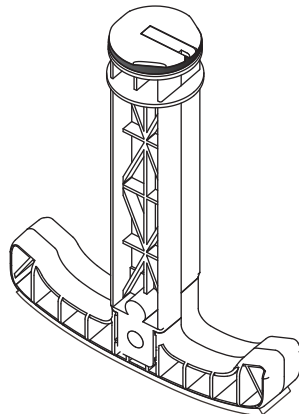
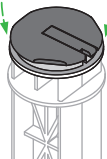
喀嗒
click



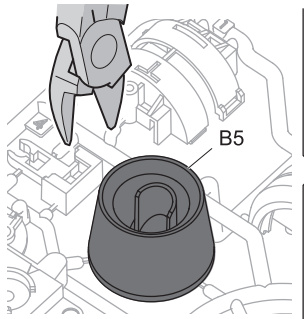
1:1



P11
(特大)
(Extra Large)

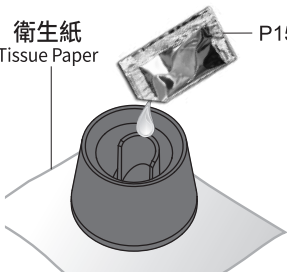


如何為零件上油 How to Oil the Parts



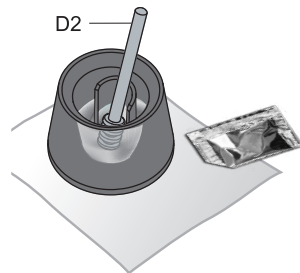
B5

衛生紙
Tissue Paper



P15

小心不要溢出。
Do not spill be careful.




D2



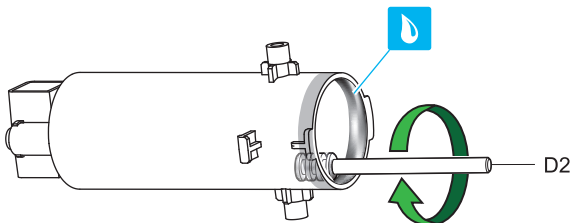
= 上油
Apply Oil

注意：出現  時為零件上油。

Note: Oil the parts when  appears.

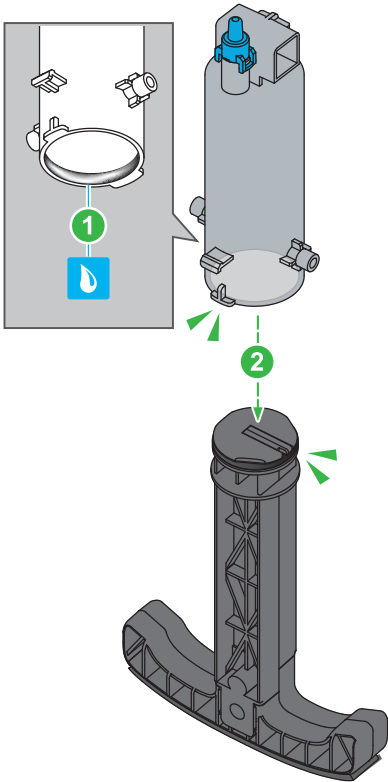
! 不要在陰影之外上油，如下所示。Do not oil outside the shadow as shown below.

例子 Example



D2

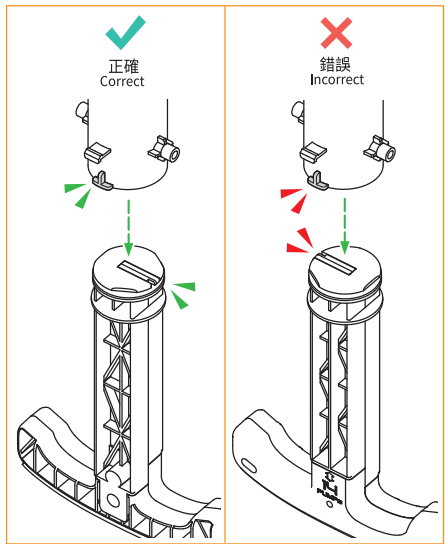
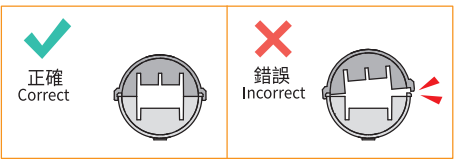
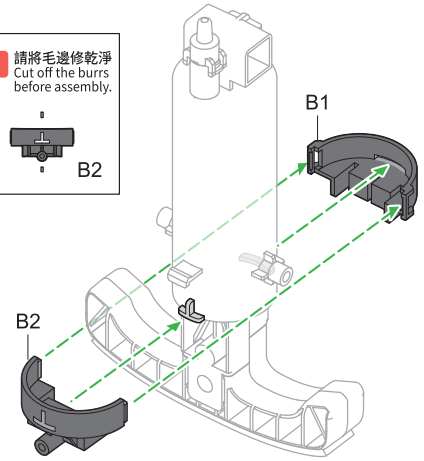
5



6

! 請將毛邊修乾淨
Cut off the burrs
before assembly. B1

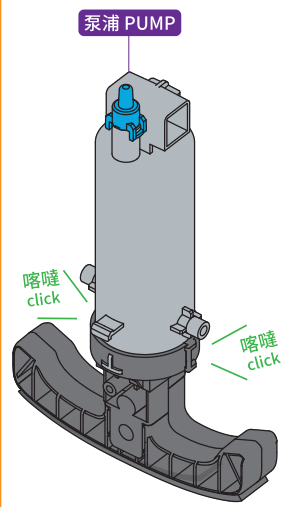
! 請將毛邊修乾淨
Cut off the burrs
before assembly. B2



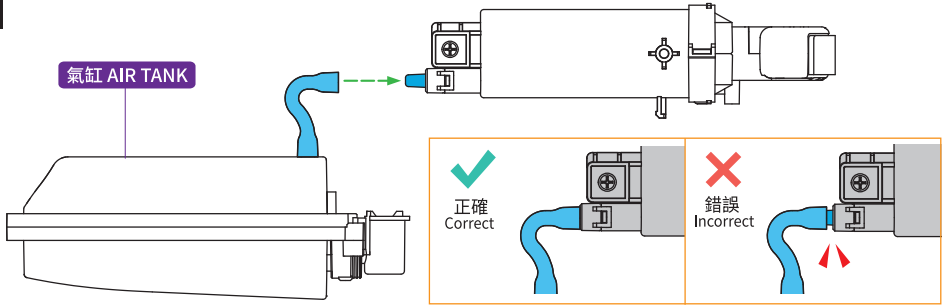
! 請確保整個O型環正確定位。
Please ensure that the entire
O-ring is correctly positioned.

✓ 正確
Correct

✗ 錯誤
Incorrect

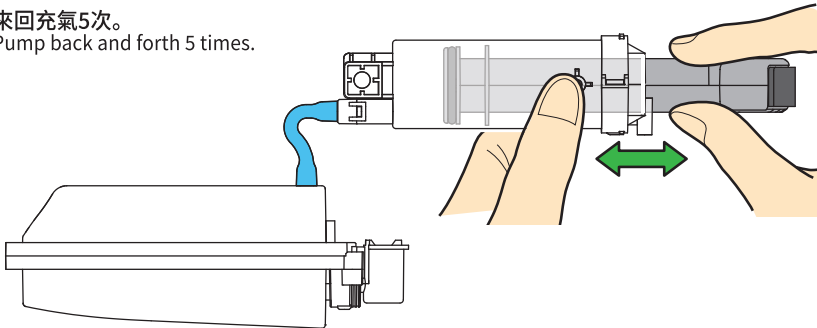


1



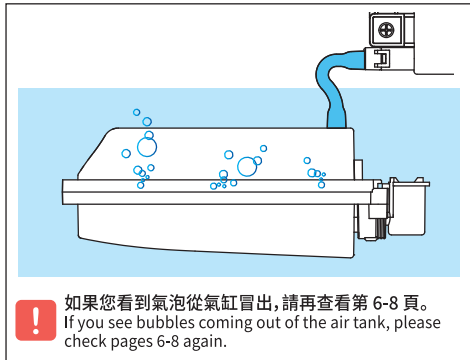
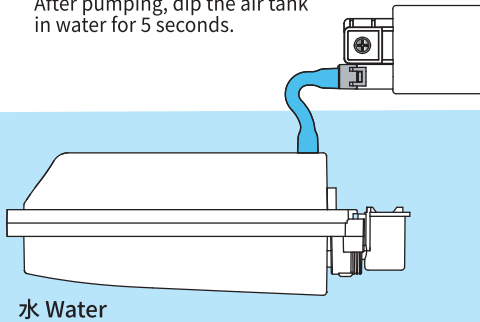
2

來回充氣5次。
Pump back and forth 5 times.



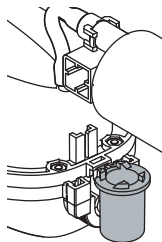
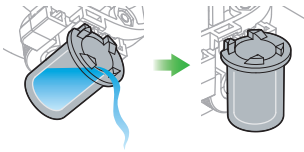
3

抽完後，將氣缸浸入水中5秒鐘。
After pumping, dip the air tank in water for 5 seconds.



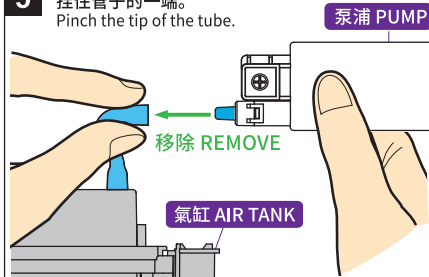
4

請將水完全擦乾，保持乾燥。
可使用紙巾擦乾。
Completely dry the water.
There should be no water left.
Use a tissue to dry.



5

捏住管子的一端。
Pinch the tip of the tube.



⚙️ 空氣動力超跑小檔案 ⚙️



加壓器與車子
一體成型
模擬真實引擎聲

一次最多
可充氣14下



最長距離20M
最快速度4m/sec



4m/sec



無需電池
使用氣壓轉成動力
乾淨能源



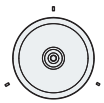
車子外型線條
有未來科技感

小巧方便攜帶
外出玩耍



1

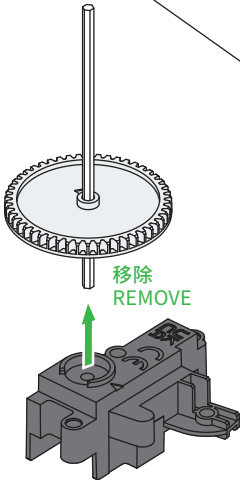
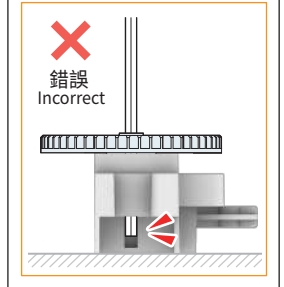
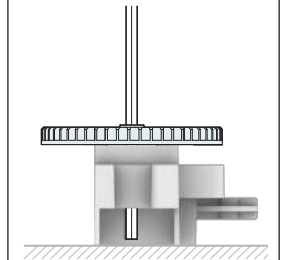
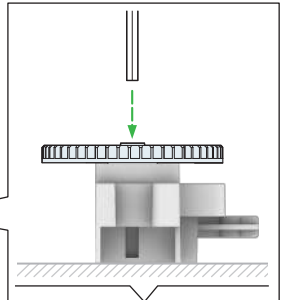
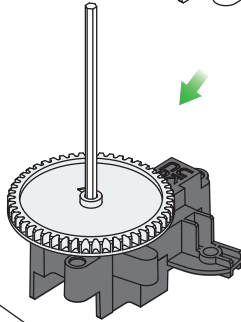
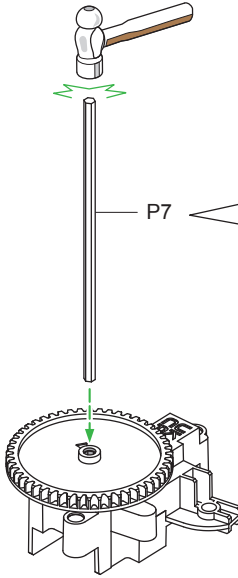
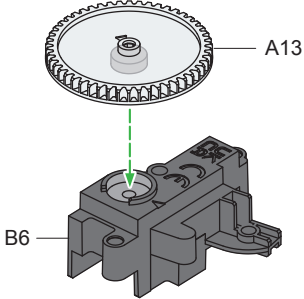
! 請將毛邊修乾淨
Cut off the burrs before assembly.



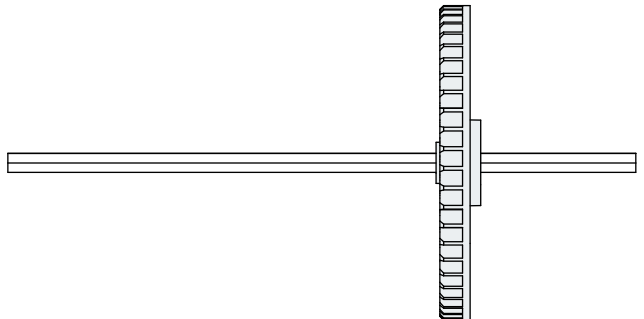
A13



B6



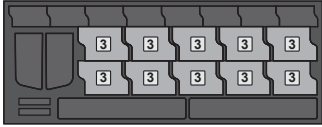
移除
REMOVE



1:1

2

P14 海绵 Sponge



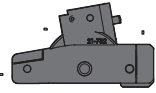
! 請將毛邊修乾淨
Cut off the burrs
before assembly.



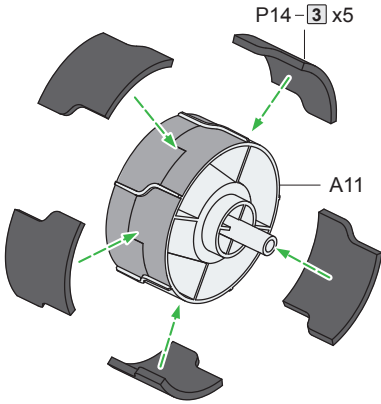
A11

3

! 請將毛邊修乾淨
Cut off the burrs before
assembly.



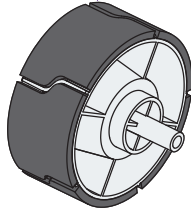
B11



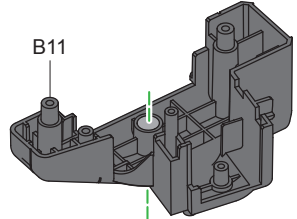
P14-3 x5

A11

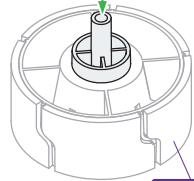
後輪
REAR WHEEL



x2

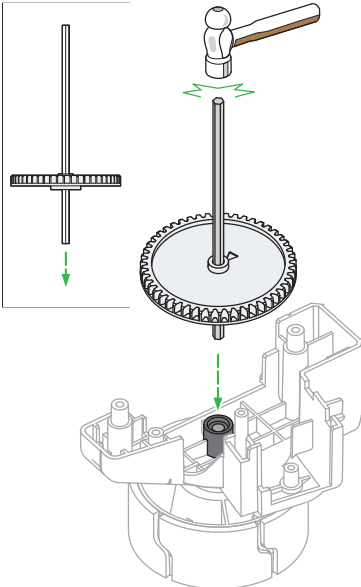


B11

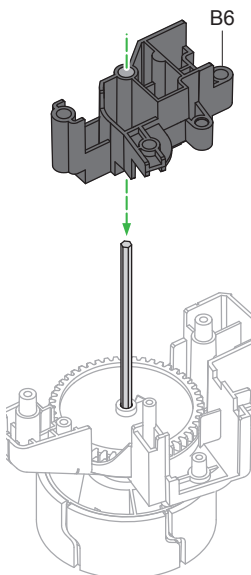


後輪
REAR WHEEL

4

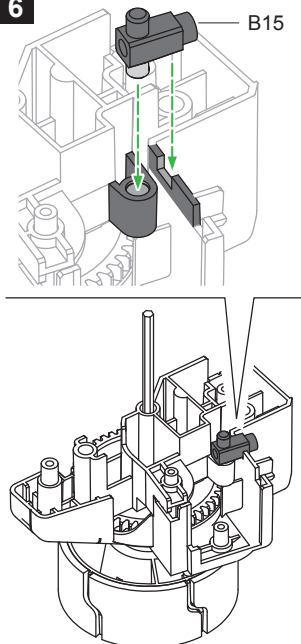


5



B6

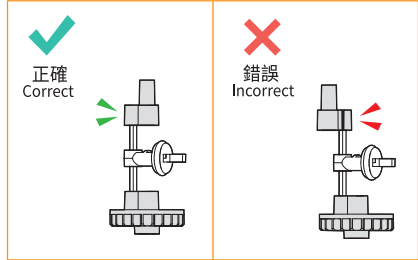
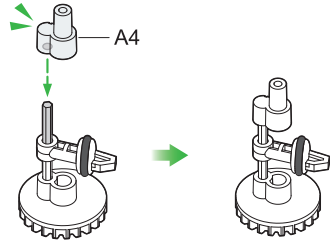
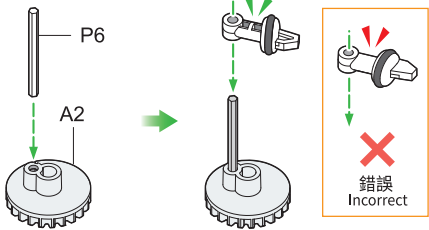
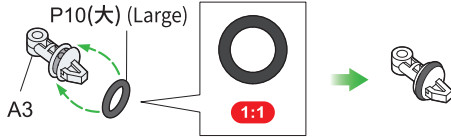
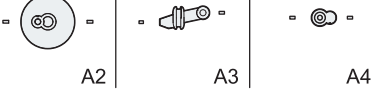
6



B15

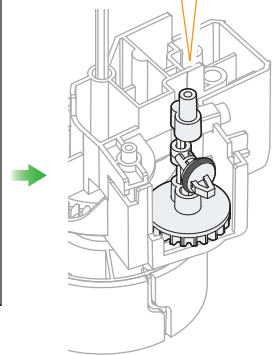
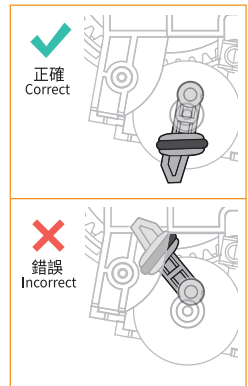
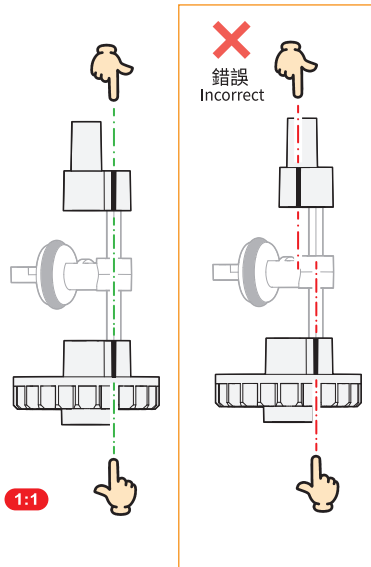
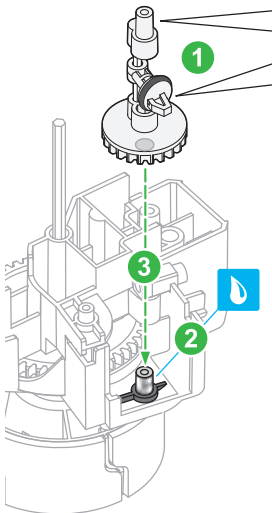
7

! 請將毛邊修乾淨
Cut off the burrs before assembly.

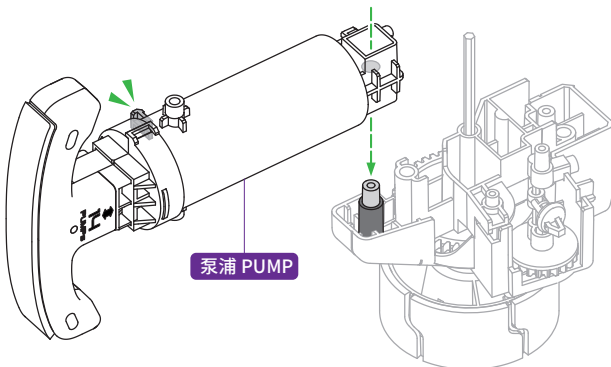
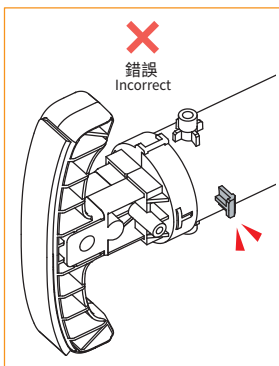


8

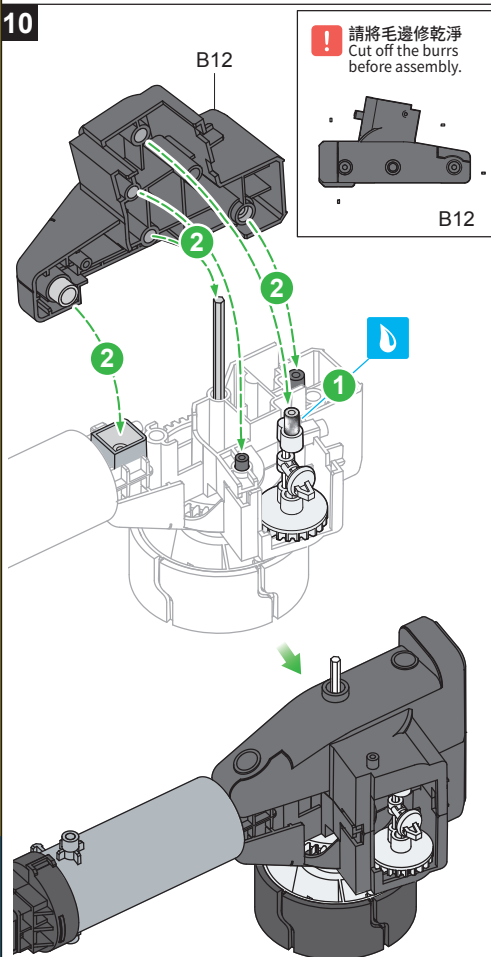
! 確保 A4 和 A2 上的標記對齊形成一條直線。
Make sure the markings on A4 and A2 align to form a straight line.



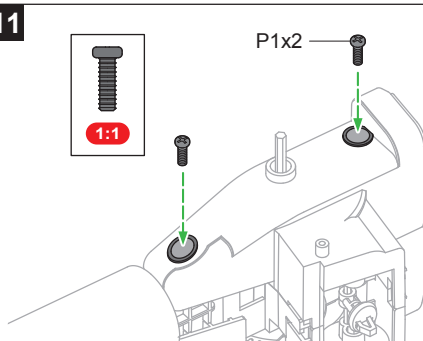
9



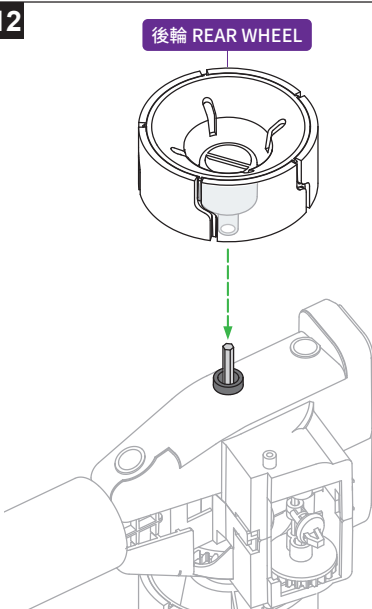
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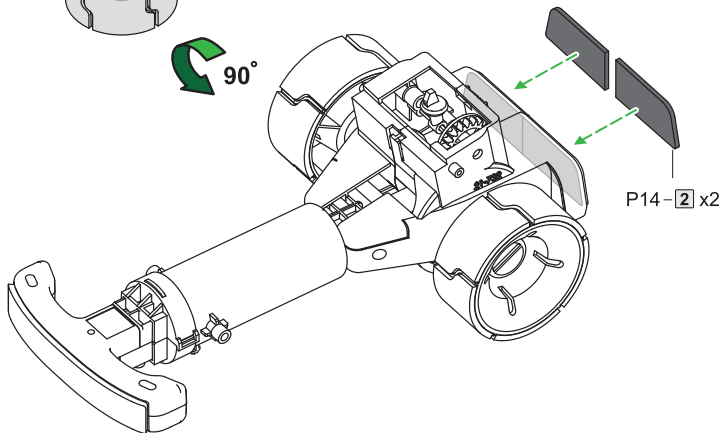
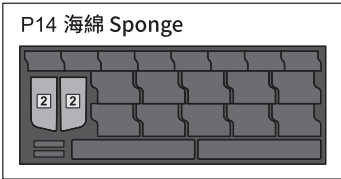
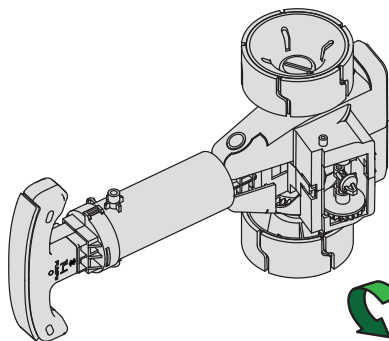
11



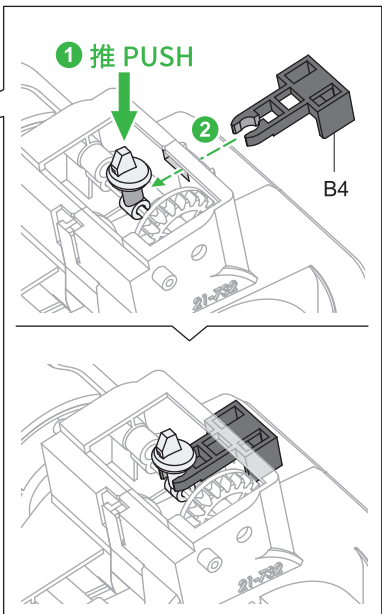
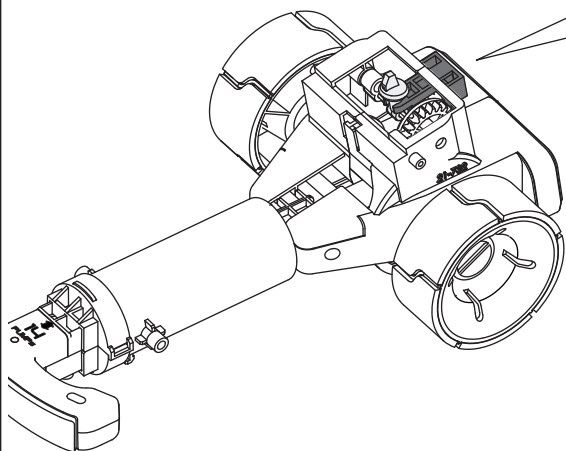
12



13

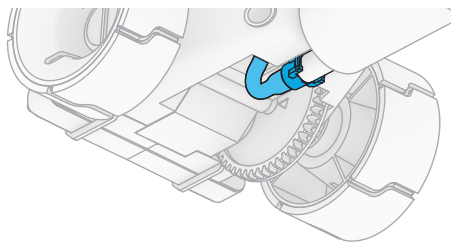
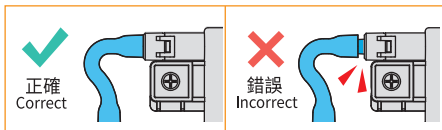
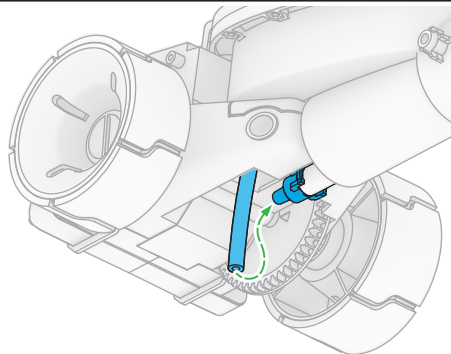
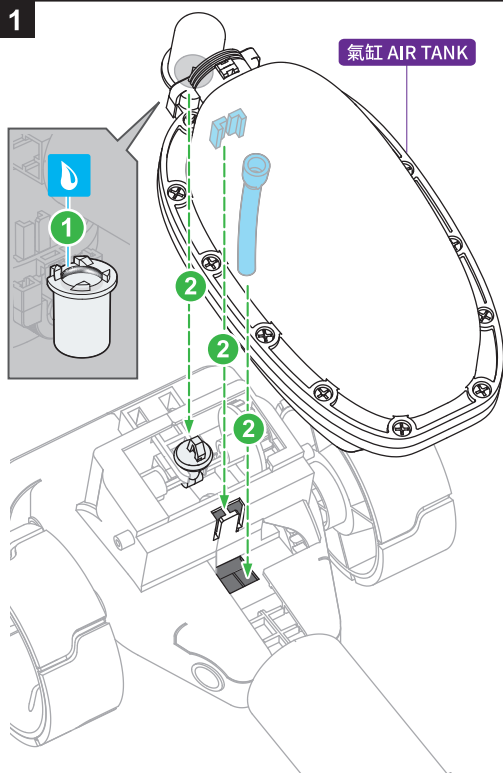


14

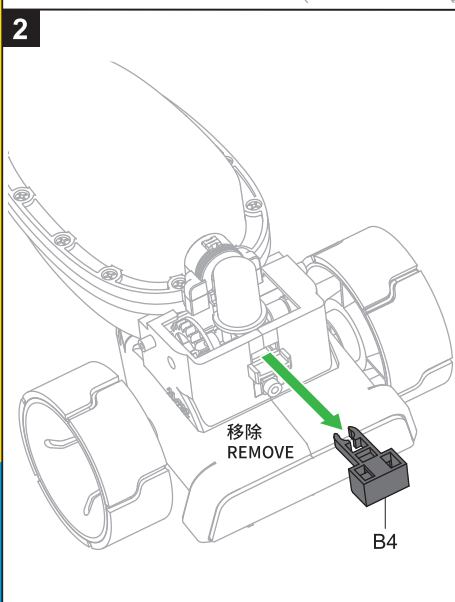


車身組裝 Car Body Assembly

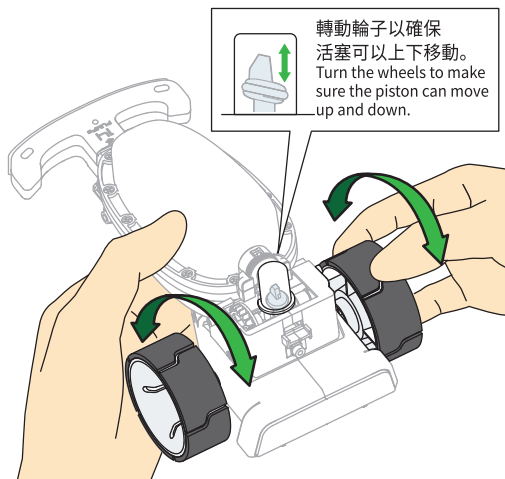
1



2



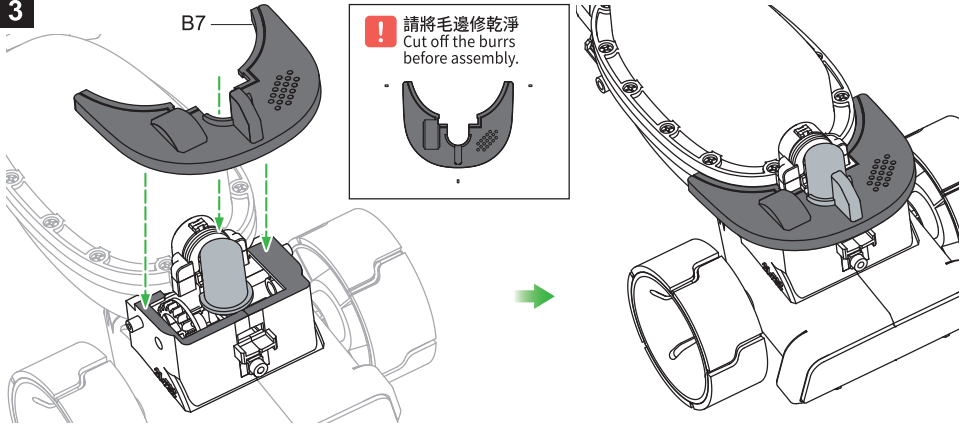
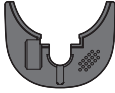
測試 Testing



3

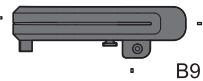
B7

! 請將毛邊修乾淨
Cut off the burrs
before assembly.



4

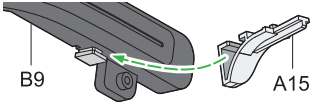
! 請將毛邊修乾淨
Cut off the burrs
before assembly.



B9

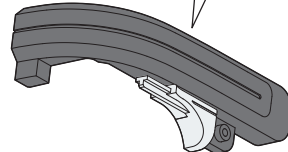


A15



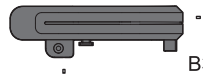
B9

A15



5

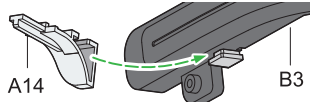
! 請將毛邊修乾淨
Cut off the burrs
before assembly.



B3

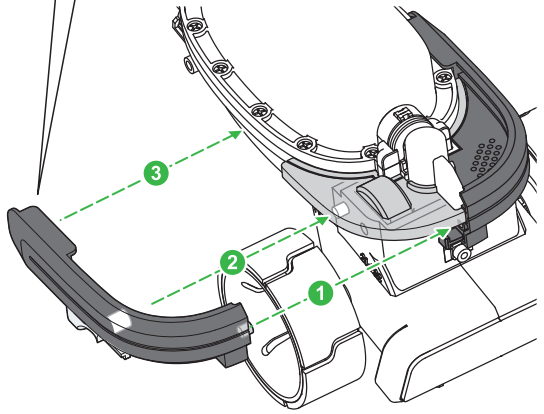
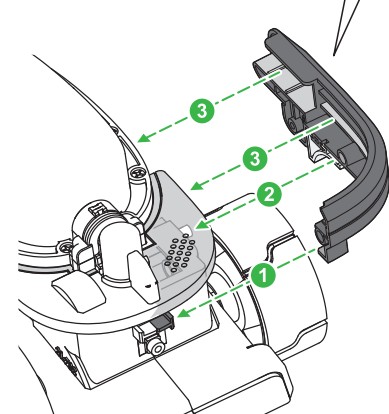
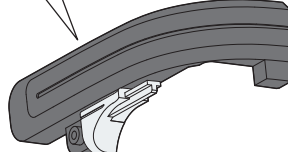


A14



A14

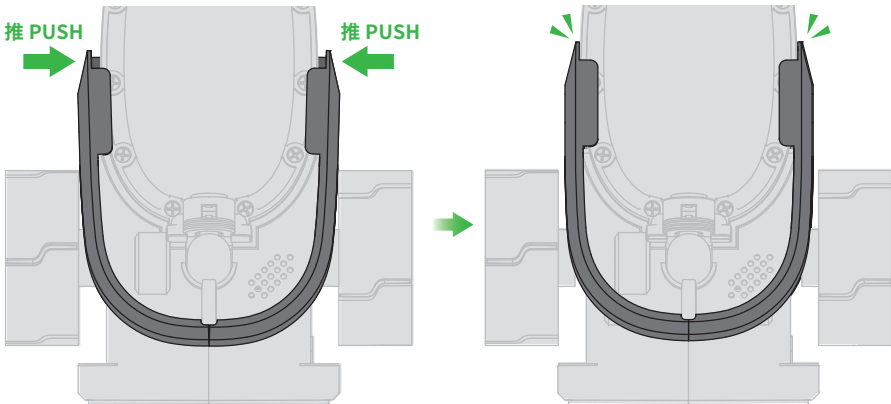
B3



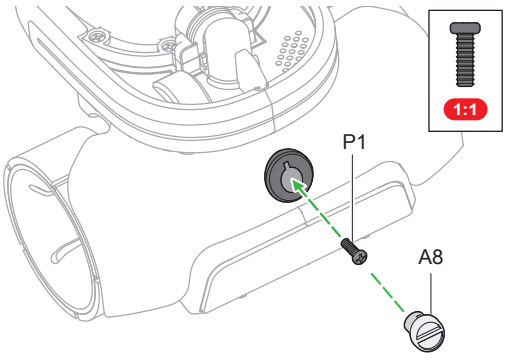
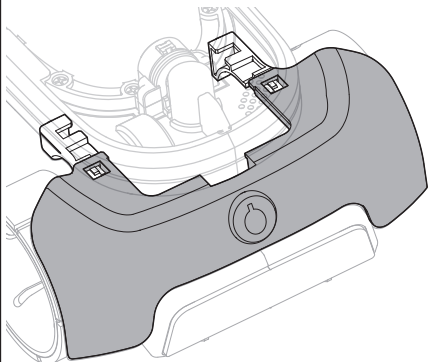
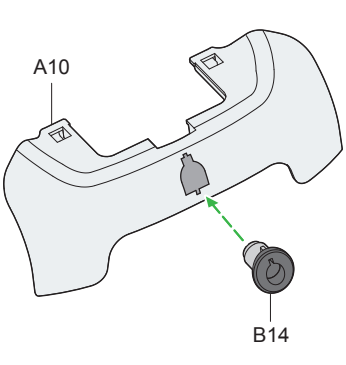
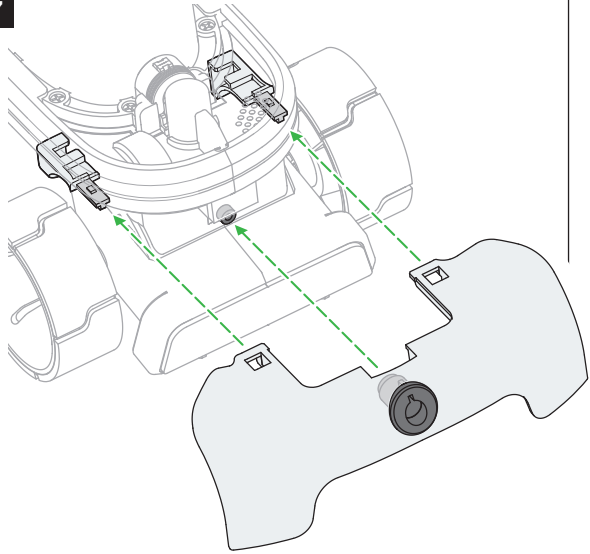
6

推 PUSH

推 PUSH

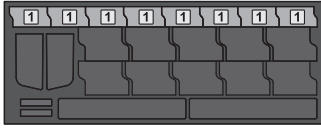


7



8

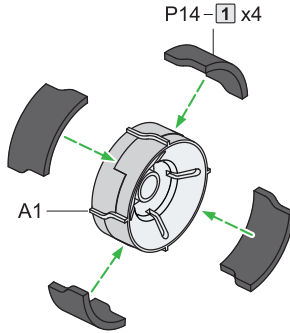
P14 海綿 Sponge



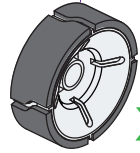
! 請將毛邊修乾淨
Cut off the burrs
before assembly.



A1



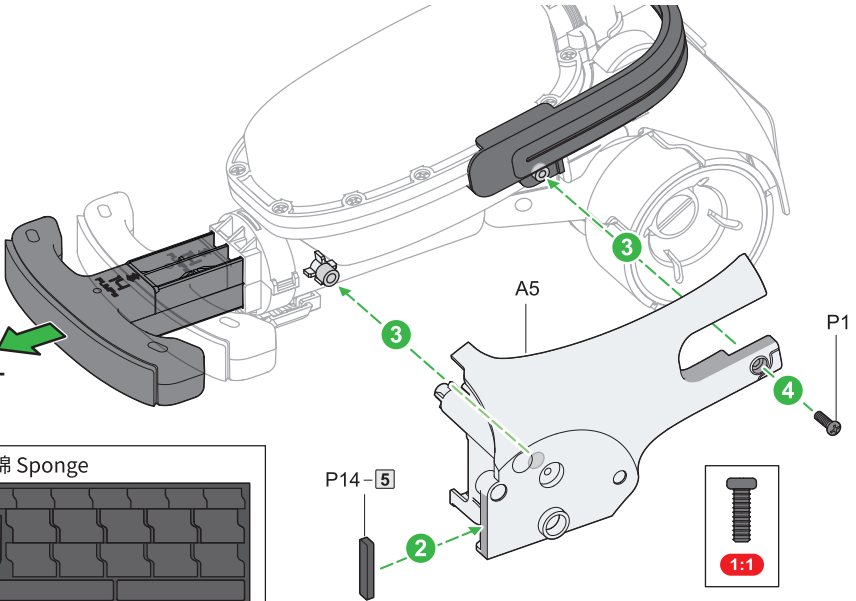
前輪
FRONT WHEEL



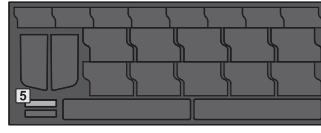
x2

9

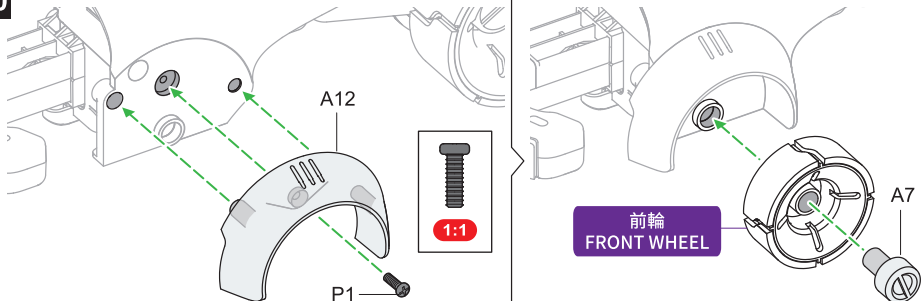
1
PULL



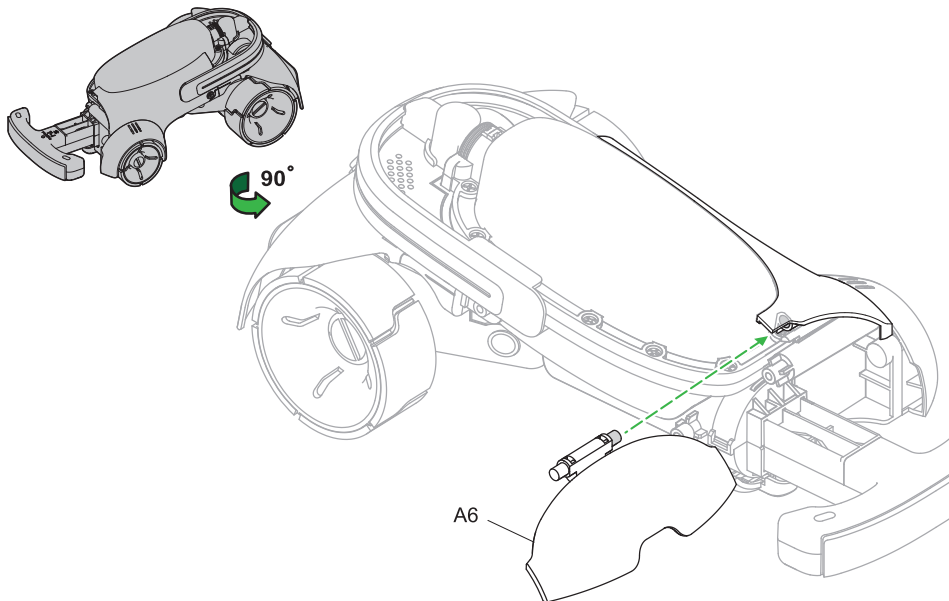
P14 海綿 Sponge



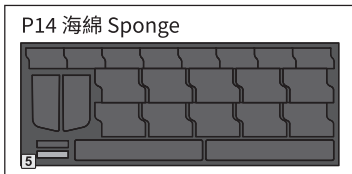
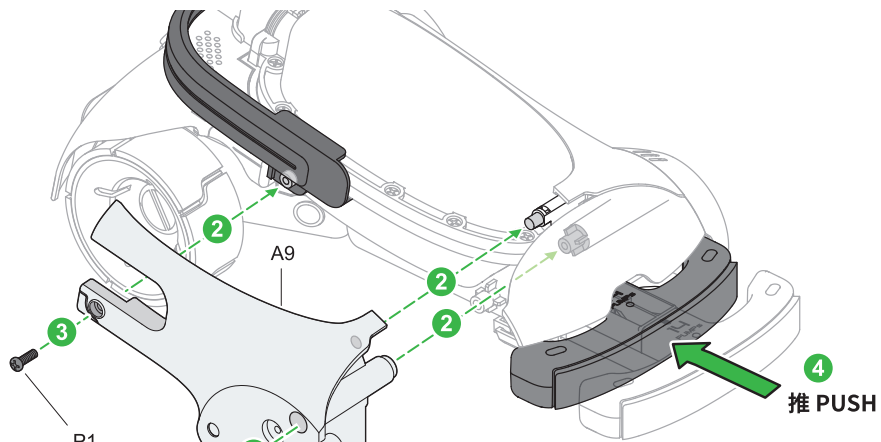
10



11



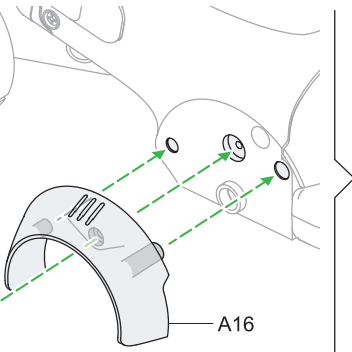
12



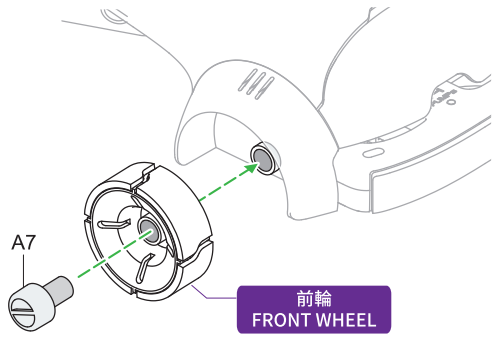
13



P1



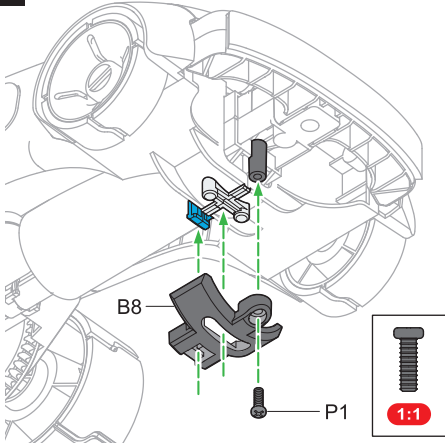
A16



A7

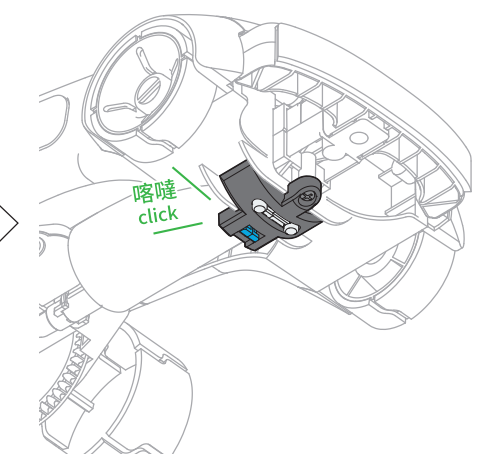
前輪
FRONT WHEEL

14

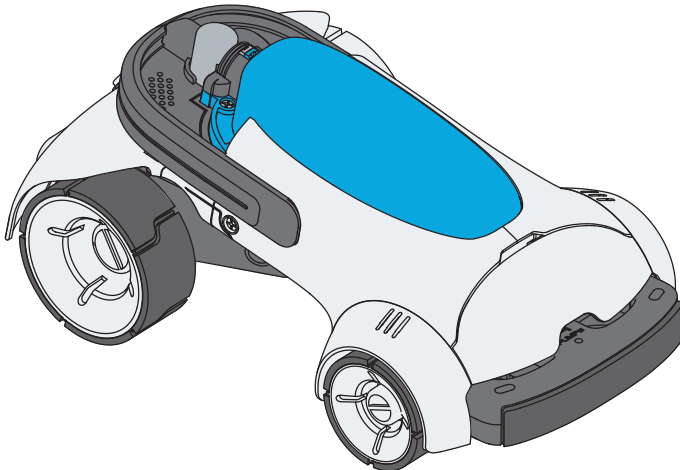


B8

P1



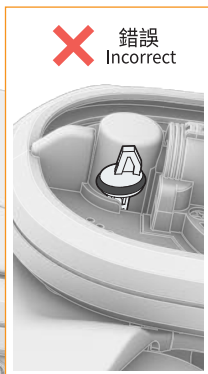
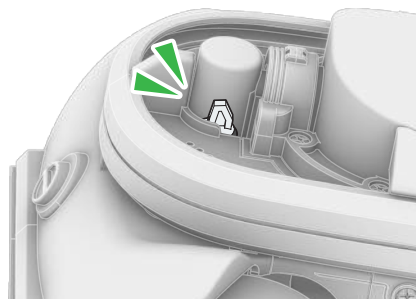
喀噠
click



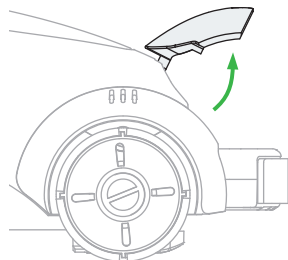
完成
FINISH

玩法 How to Play

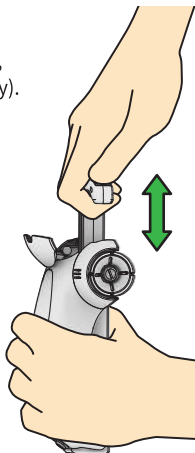
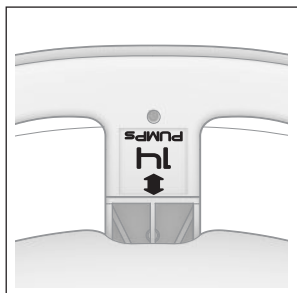
- 1** 旋轉輪子來調整活塞。
Spin the wheel to adjust the piston.



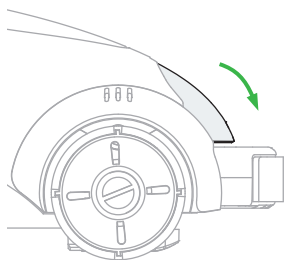
- 2** 打開引擎罩。
Open the engine hood.



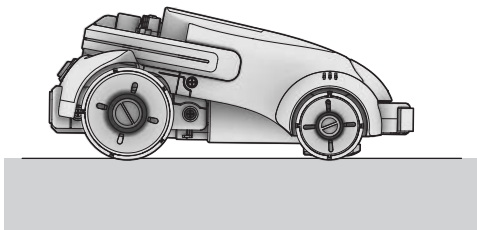
- 3** 充氣12-14次(不要超過20次, 矽膠管可能容易脫落或滑動)。
Pump 12-14 times (do not exceed 20 times, the silicone tube may come off or slip easily).



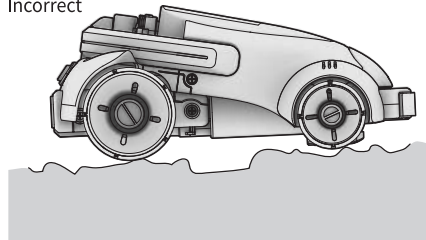
- 4** 關閉引擎罩。
Close the engine hood.



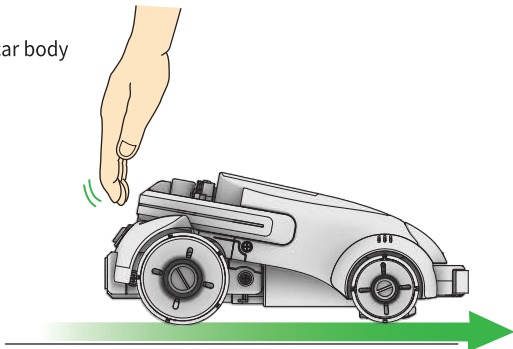
- 5** 將其放置在水平地面上。
Place it on level ground.



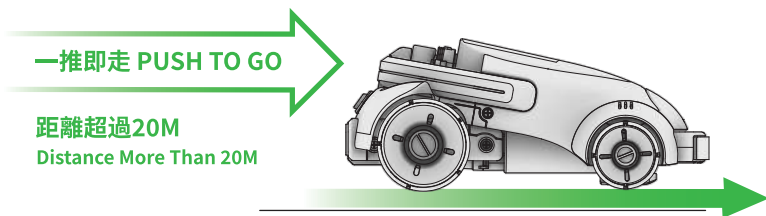
- ×** 不建議用於多塵或光滑的表面。
錯誤 Incorrect
Not recommended for dusty or slippery surfaces.



- 6 輕輕推動車身
Gently push the car body



- 7 跑吧! 最大速度為每秒4米, 最遠距離可達20米。
Push to go! The maximum speed is 4 meters per second, covering a distance of up to 20 meters.



玩法建議 Game play proposal

- 1 裝飾 Decorate



- 2 挑戰不同地形
Challenge different terrains



- 3 競速 Racing



故障排除 Trouble Shooting

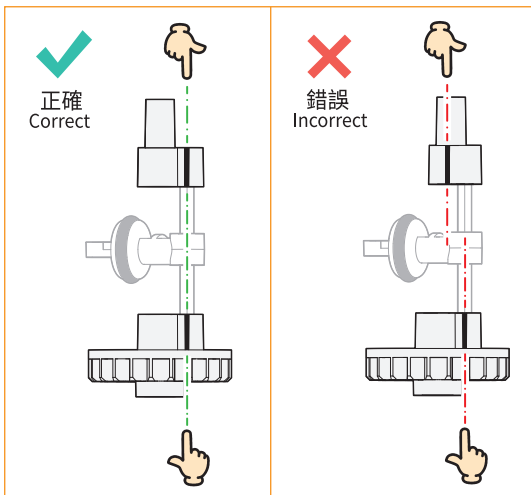
	問題 Question	解答 Answer
A	<p>漏氣聲 Leaking sound</p>	<ol style="list-style-type: none">1. 檢查所有螺絲是否鎖緊並正確擰緊。2. 檢查橡膠圈是否滑出凹槽。 <p>1. Check if all the screws are locked and tightened properly. 2. Inspect if the rubber ring has slipped out of the groove.</p>  <ol style="list-style-type: none">3. 確保兩個 O 形環 (小) 位置正確位置 (按下至底部)。3. Ensure that the two o-rings (small) are in the correct position (pressed down to the bottom). 
B	<p>矽膠管於充氣時脫落 Silicone tube detaching during inflation.</p>	<ol style="list-style-type: none">1. 檢查泵嘴是否被油包覆。2. 確保矽膠管安裝到位。 <p>1. Check if the pump nozzle is coated with silicone oil. 2. Ensure that the silicone tube is installed all the way.</p>  <ol style="list-style-type: none">3. 驗證充氣是否超標 (設定為 14 次充氣)。3. Verify if the inflation exceeds the standard (set at 14 pumps).

C

汽車無法前進
Car unable to move forward

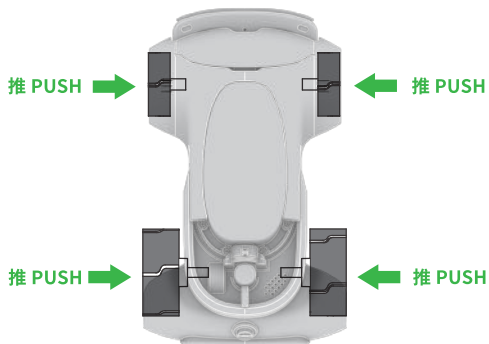
1. 檢查活塞和齒輪是否安裝正確。

1. Check if the piston and gears are installed correctly.



2. 確保前後輪完全地壓緊。

2. Ensure that the front and rear wheels are pressed down completely.





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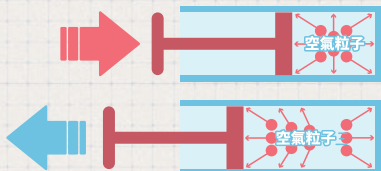


空氣動力

氣動引擎的原理是源於氣體的可壓縮性，空氣在壓縮後會膨脹推動活塞，進而提供動力給引擎。整個過程不需要燃燒，沒有空氣污染的問題。

安全結構設計

當持續將空氣注入已注滿的空氣瓶時，安全氣閥裝置會自動開啟以釋放多餘的空氣，可安心遊玩！

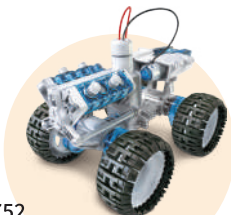


猜你也會喜歡 ——



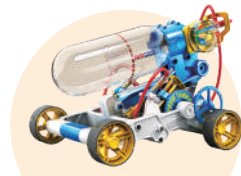
GE-754

鹽水動力越野車



GE-752

鹽水動力引擎車



GE-631

空氣動力引擎車

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新北市新店區民權路130巷7號5樓
5F, NO.7, LN. 130, MINQUAN RD., XINDIAN DIST.,
NEW TAIPEI CITY, TAIWAN Post code:231023

服務專線Tel:+886 2 2218 3233
www.proskit.com

Email:pk@mail.prokits.com.tw

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