

GE-735



科學玩具

MAKING • LEARNING • PLAYING



Assembly & Instruction

Manual

組裝說明手冊

Pro'sKit®

Professional Science Kits

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 手做模型組裝
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

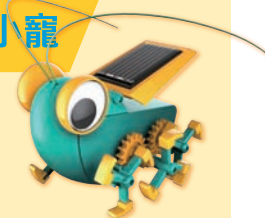
🔬 科學動力



🔋 電池動力



💖 療癒小寵



💻 教學編程



🏆 競技遊戲



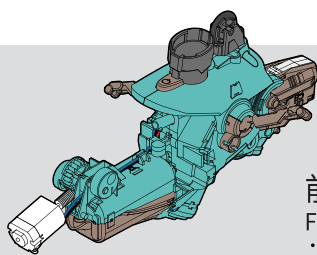
☆ 模型收藏



AI編程變色龍-酷迪

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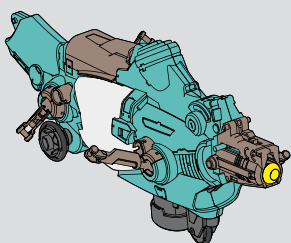
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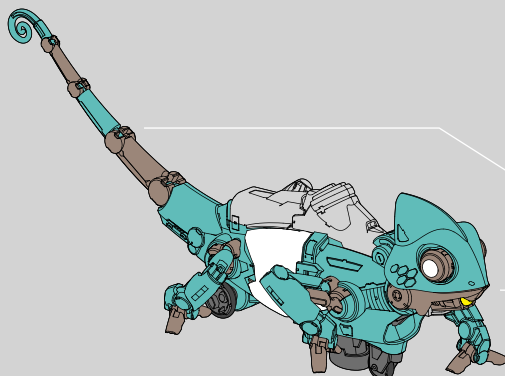
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自備工具 Tools You May Need



斜口鉗
Diagonal Cutter



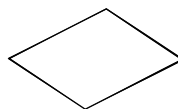
剪刀 Scissors



衛生紙
Tissue Paper

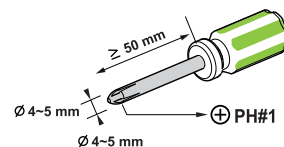


杯子 Cup



白紙 White paper

建議尺寸 Recommended Size



⊕ 螺絲起子
Screwdriver



棉花棒
Cotton Swab



麥克筆(細)
Marker Pen (Fine)



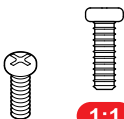
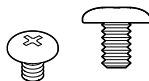
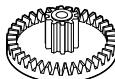
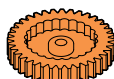
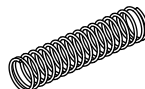
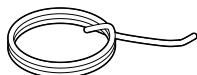
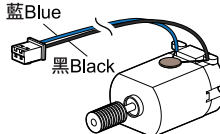
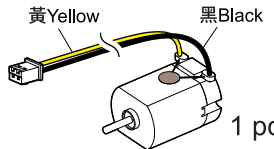
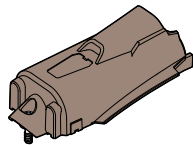
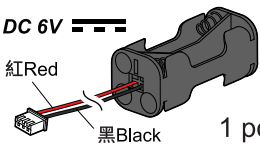
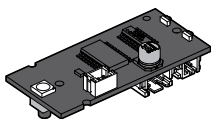
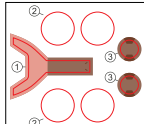
尺 Ruler

電池(AAA) x 4
Battery(AAA) x 4
推薦使用鹼性電池
Alkaline batteries are recommended.



零件清單 Mechanical Parts List

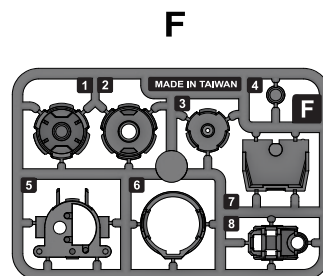
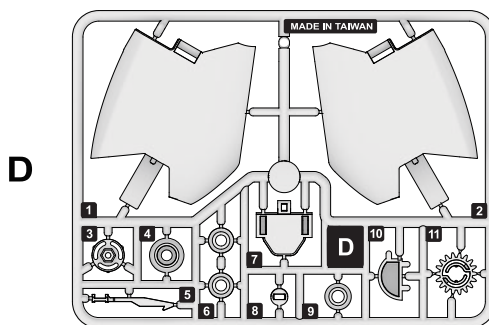
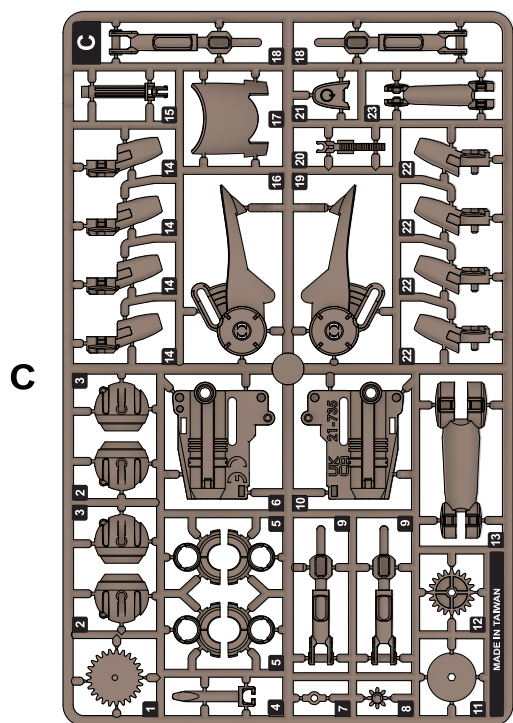
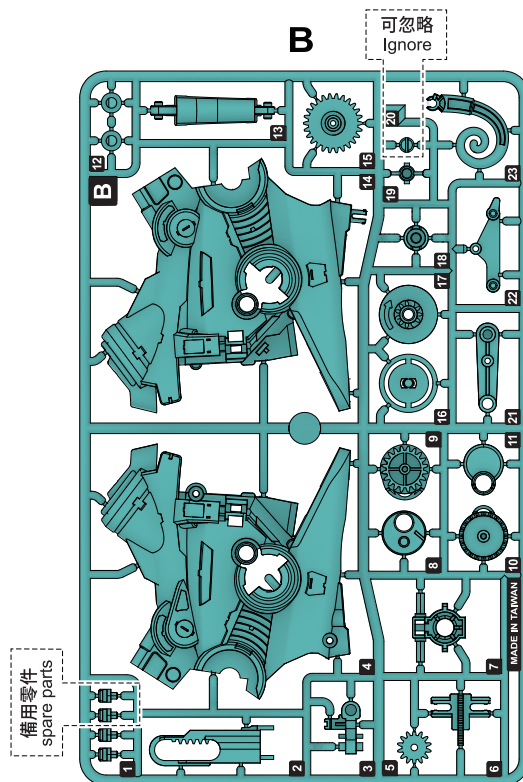
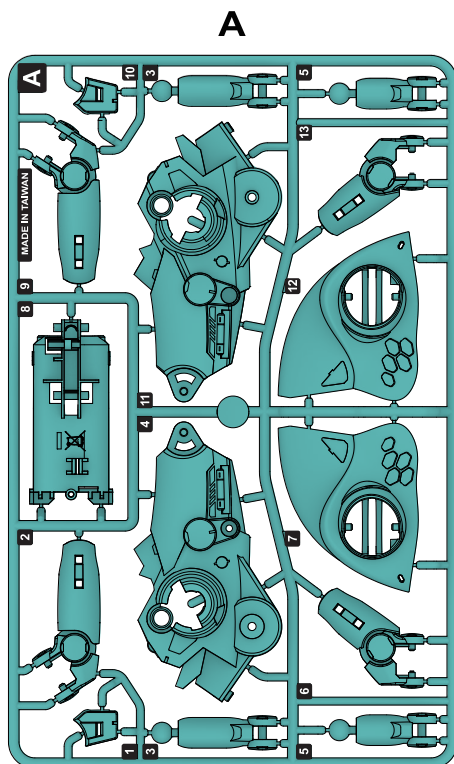
! 部分產品有銳利邊角, 組裝時請特別注意。
Product contains functional edges and sharp points.

P1	螺絲 Tapping Screw	P2	螺絲 Tapping Screw	P3	小齒輪 8T (白色) Pinion Gear 8T (White)	P4	齒輪 36/10T (白) Gear 36/10T (White)
	1:1 6 pcs		1:1 1 pc		1 pc		1 pc
P5	齒輪 32/10T (咖啡) Gear 32/10T(Brown)	P6	齒輪 36/10T (黃) Gear 36/10T(Yellow)	P7	齒輪 36T (橘) Gear 36T(Orange)	P8	壓力彈簧 Compression Spring
	1 pc		2 pcs		1 pc		1 pc
P9	六角軸(短) Hex Shaft(Short)	P10	六角軸(長) Hex Shaft(Long)	P11	圓軸(短) Round Shaft(Short)	P12	圓軸(長) Round Shaft(Long)
	1:1 2 pcs		1:1 1 pc		1:1 3 pcs		1:1 2 pcs
P13	安全扣 Safty Cover	P14	繩子 Rope	P15	帶接頭馬達 Motor With Connector	P16	帶接頭馬達 Motor With Connector
	1 pc		1 pc		1 pc		1 pc
P17	帶螺絲的電池盒蓋 Battery Holder Cover With Screw	P18	帶接頭的電池盒 Battery Holder With Connector	P19	色卡 Color Chart	P22	油包 Oil Bag
	1 pc		1 pc		1 pc		1 pc
P20	電路板 PC Board	P21	貼紙 Sticker				
	1 pc		1 pc				

! 僅在指定標示處上油。
Please oil ONLY the parts as instructed, but not others.

塑膠模型零件 Plastic Parts

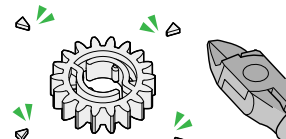
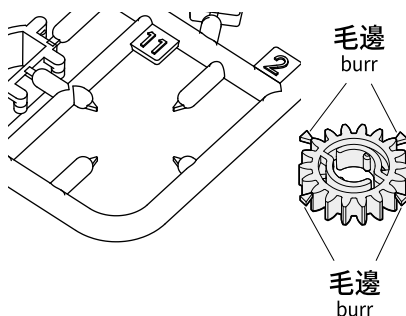
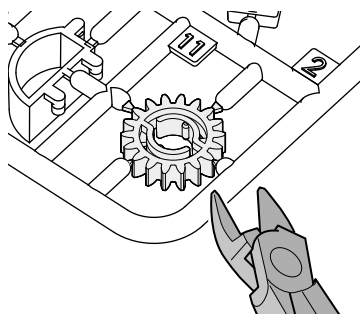
! 請依照組裝步驟將所需的零件剪下，請勿提早剪下零件，以免混淆。
Cut the plastic parts when they are required. Do not cut them in advance.



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



僅修剪掉毛邊。請勿修剪原廠塑膠零件的突出部分。
零件的所有特徵應完整保留。

Trim off the burrs ONLY. Do not trim off the protrusion belonged to original plastic parts.
All features of parts should be kept completely.

請勿使用以下方式 Please do not



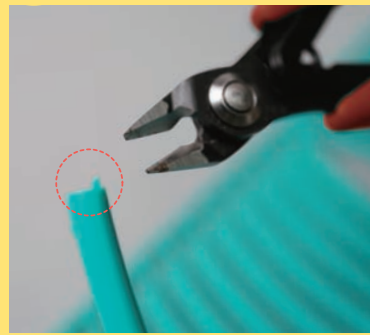
用剪刀剪
Cut with scissors



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

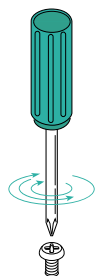


PM-203

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





AI 編程 變色龍 酷迪

Color-Sensing Coding Chameleon

產品介紹 Product introduction

神奇的變色龍會變色、會吐舌、精通偽裝術，這些酷迪都可以做到！

酷迪腹部的顏色感應器，可以讀取顏色並即時變色，透過三種不同的模式可以跟酷迪進行多項互動！在寵物模式中，可以透過輕撫它的下巴，使其扭動身體來和你互動！切換到避障模式時遇到障礙物還會吐舌攻擊！

最厲害的是編程模式！酷迪還能學程式，每張顏色卡都代表一個指令，可以盡情發揮創意，設計任務給酷迪執行，一起創造出無限玩法！

Meet Codee—the amazing color-changing chameleon that sticks out its tongue and masters the art of camouflage. And guess what? Your kids can bring all that magic to life!

Codee's belly has a built-in color sensor that lets it detect and change colors in real time. With three exciting play modes, there are endless ways to interact with Codee! In Pet Mode, gently stroke its chin and watch it wiggle and react like a real pet. Switch to Obstacle Avoidance Mode, and Codee will sense nearby objects and playfully stick out its tongue to "attack" them!

But the most impressive feature? Coding Mode! Codee can learn simple programming using color-coded cards—each card is a command. Kids can design their own missions and unleash their creativity, turning every play session into a fun, hands-on learning adventure.

Endless fun, creativity, and learning—all packed into one smart little chameleon!



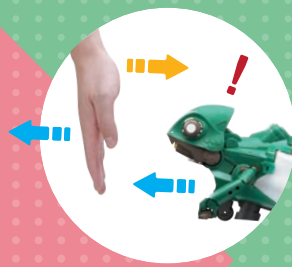
編程模式
Coding



顏色感應
Color Sensing



寵物模式
Petting



跟隨模式
Walking

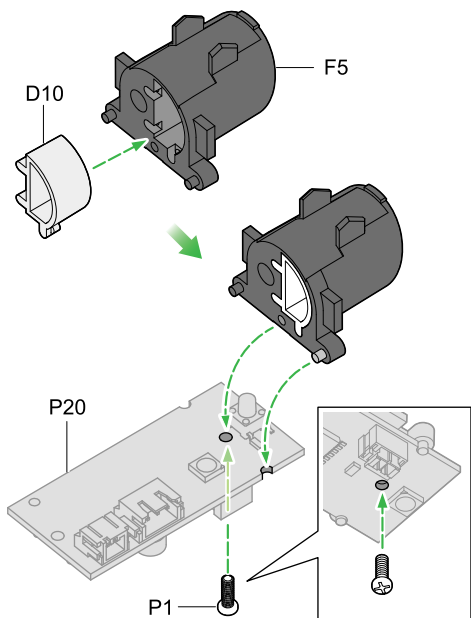
讓我們開始組裝吧！

Let's start assembling~

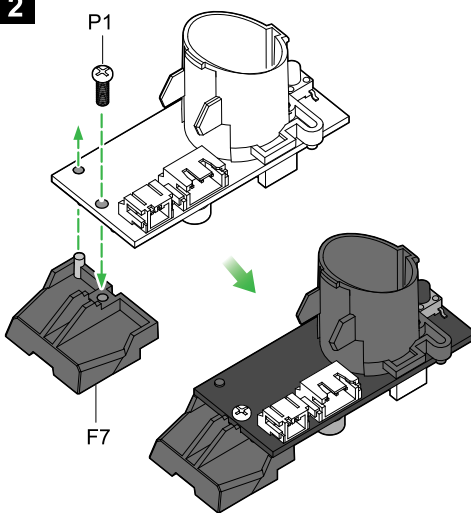


前齒輪箱組裝 Front Gear Box Assembly

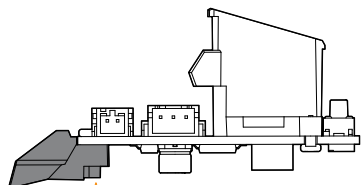
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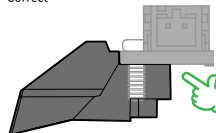
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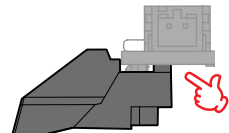
! 請確保F7和P20之間沒有空隙。
Make sure there is no gap between F7 and P20.



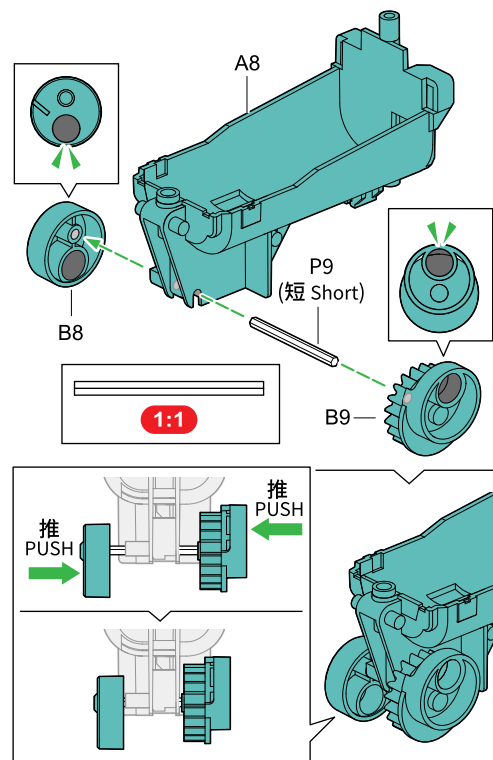
✓
正確
Correct



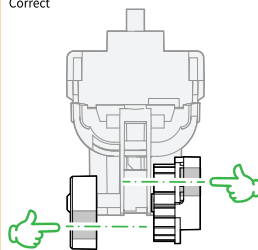
✗
錯誤
Incorrect



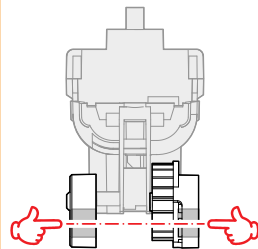
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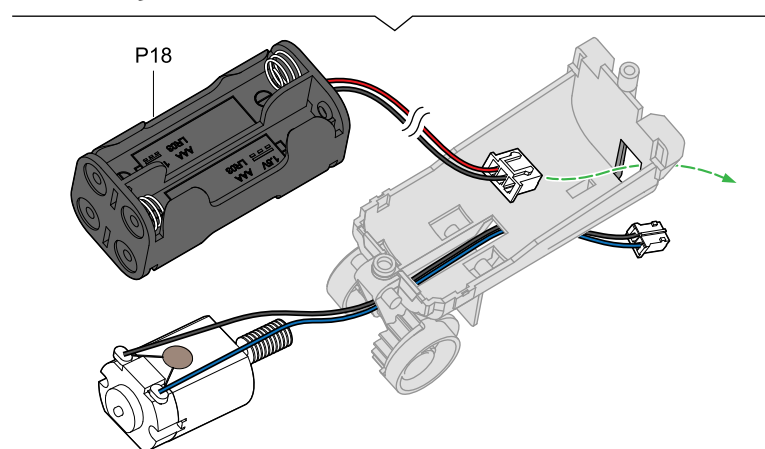
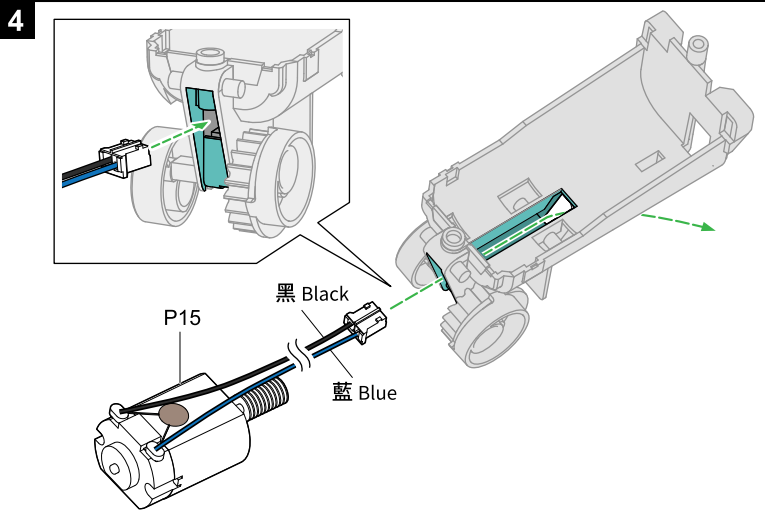
✓
正確
Correct

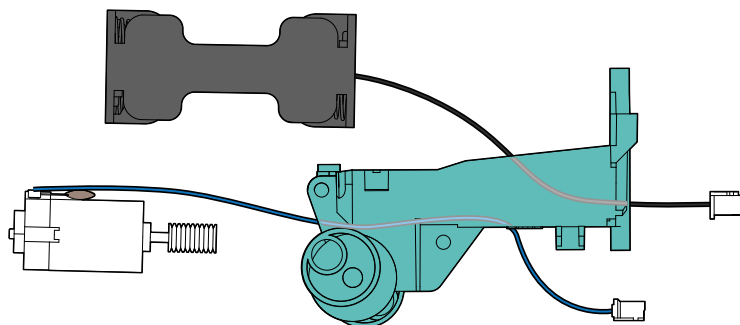


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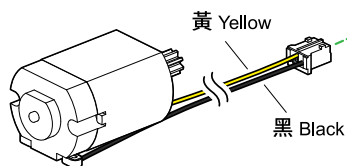
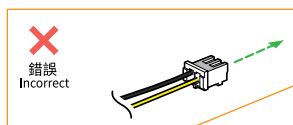
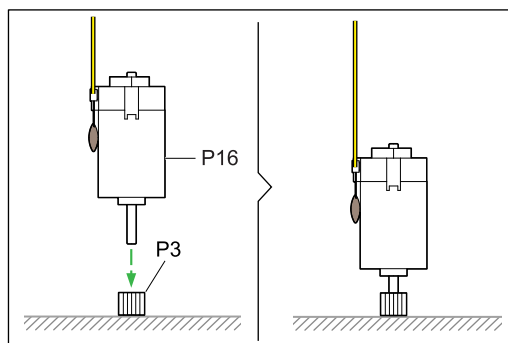
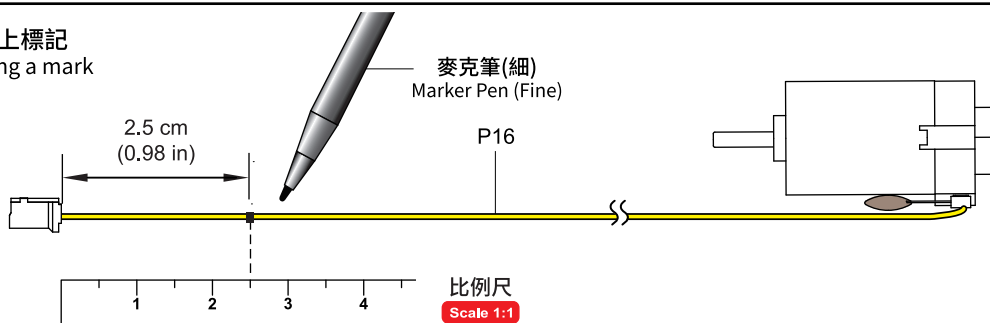
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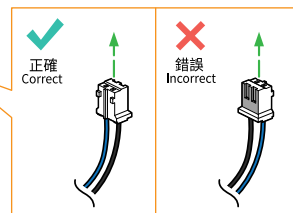
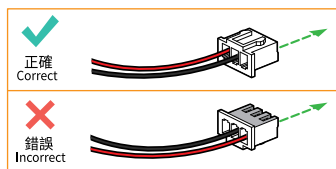
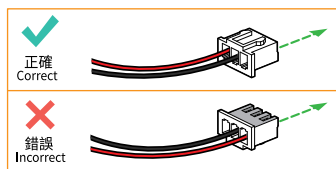
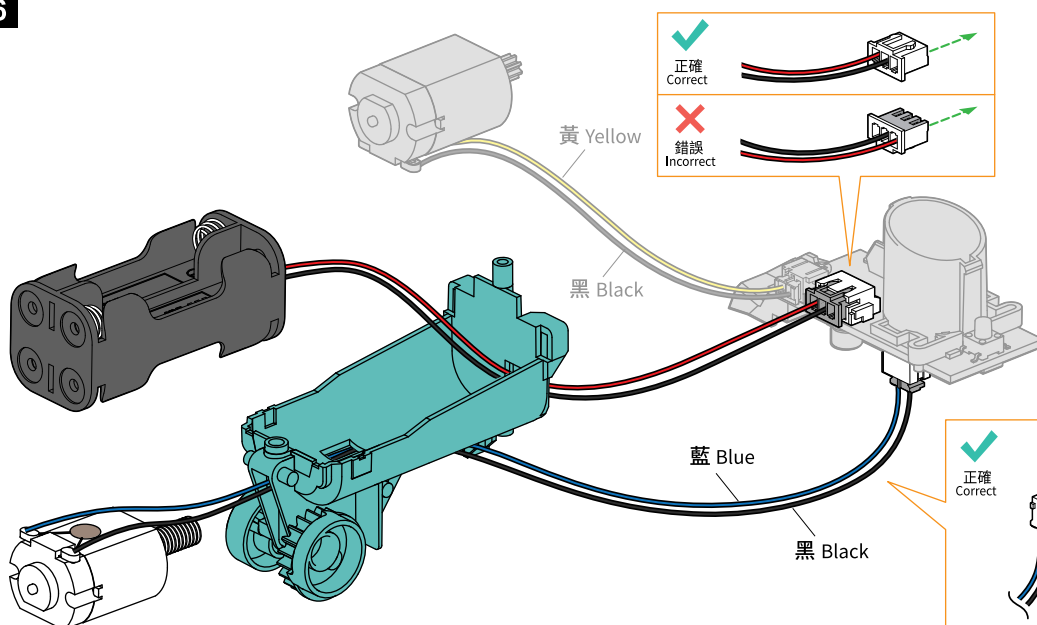


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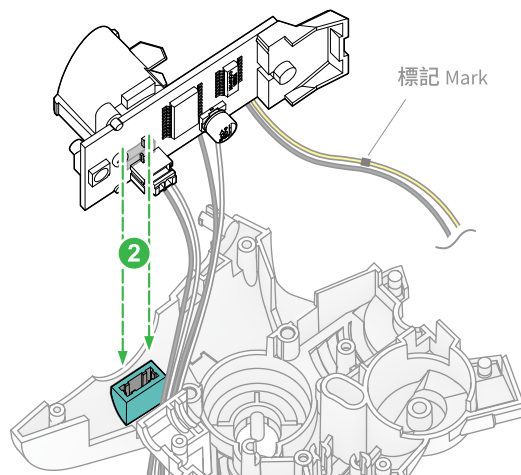
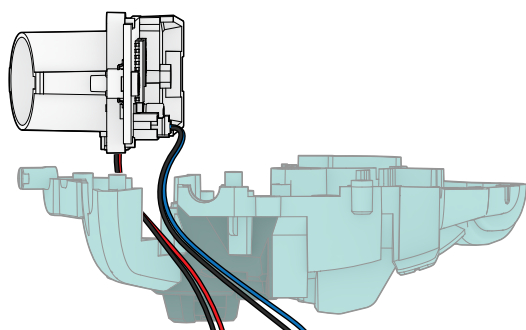
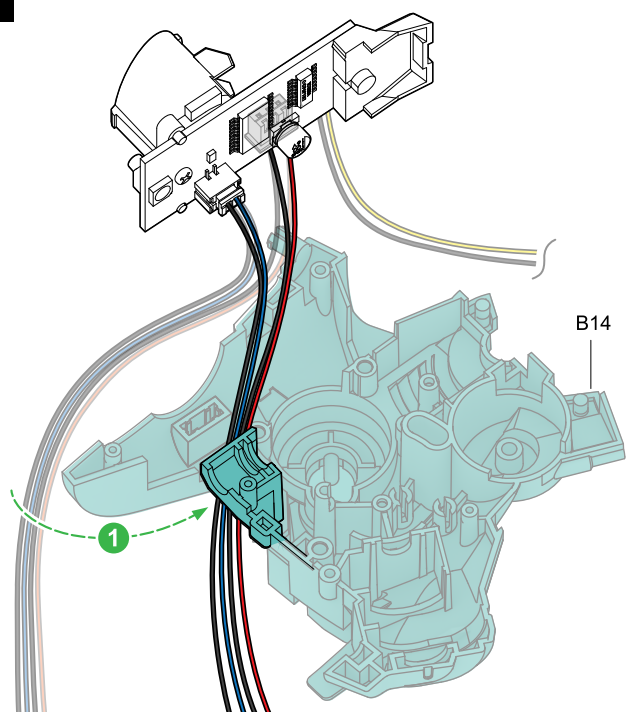
請做上標記
Making a mark



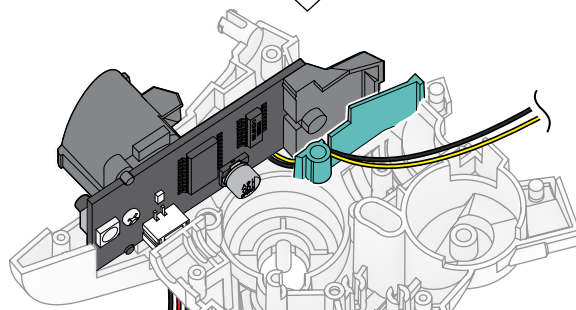
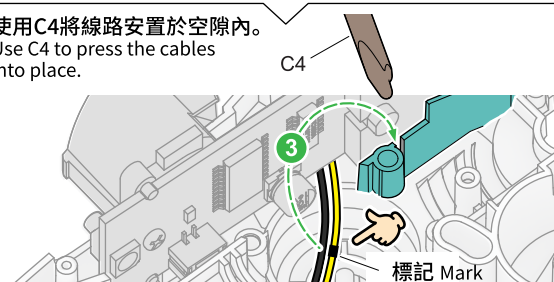
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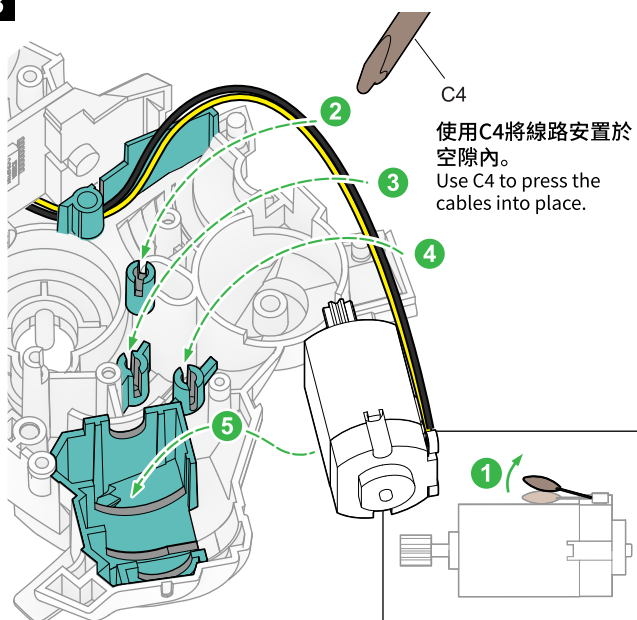
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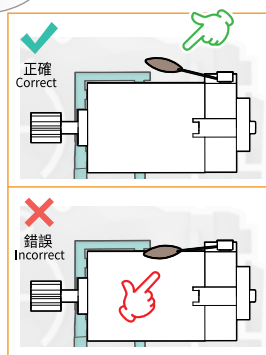
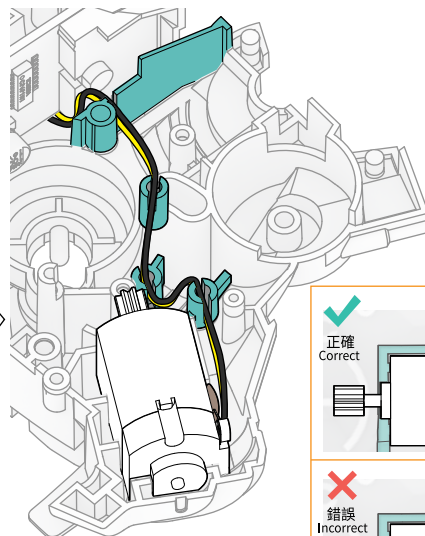
使用C4將線路安置於空隙內。
Use C4 to press the cables into place.



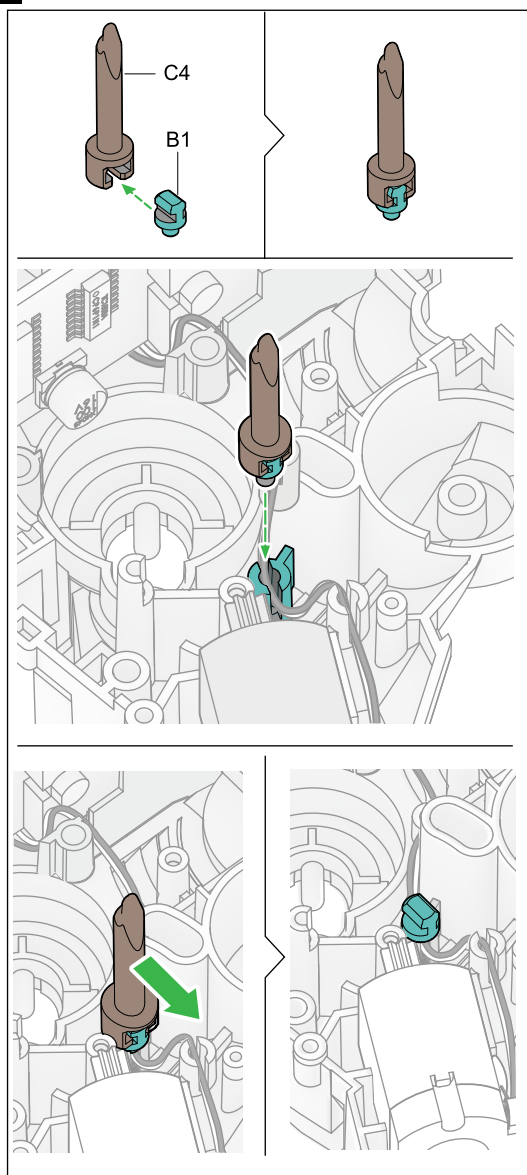
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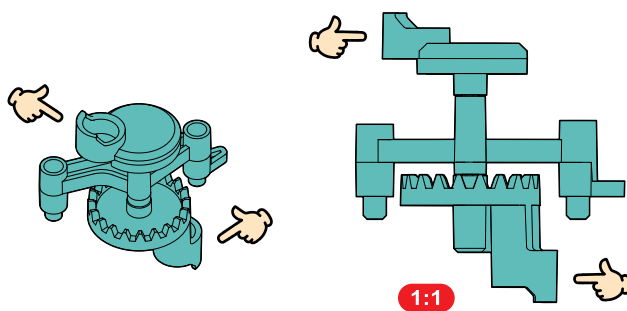
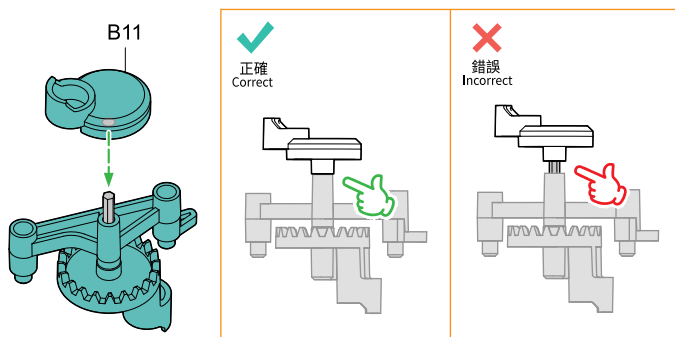
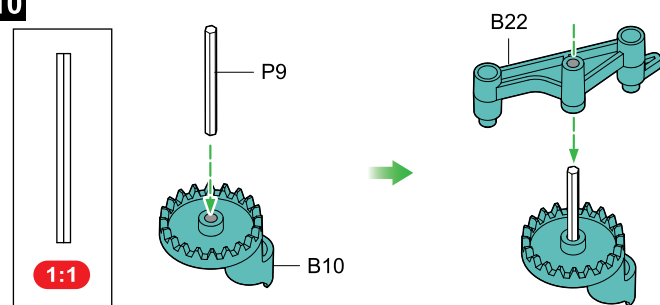
使用C4將線路安置於空隙內。
Use C4 to press the cables into place.



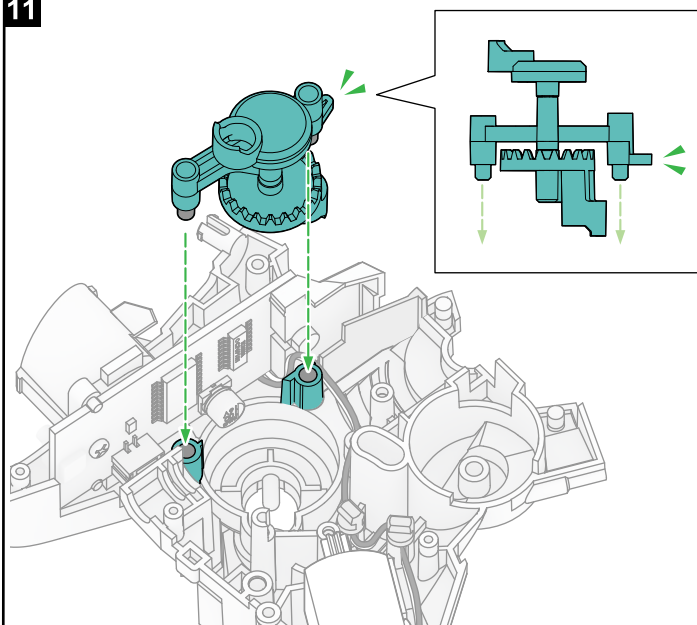
9



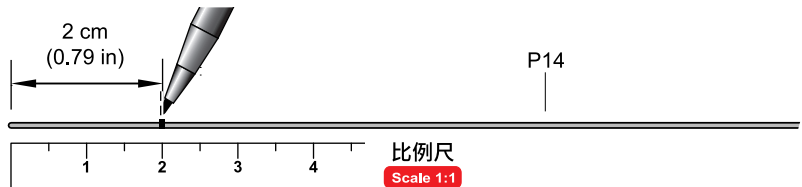
10



11



12

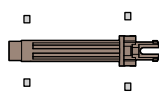


13

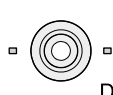
! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.



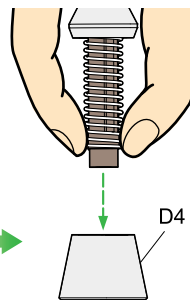
D9



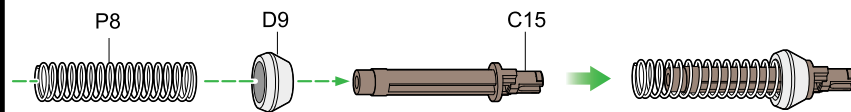
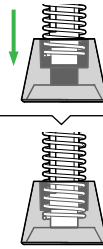
C15



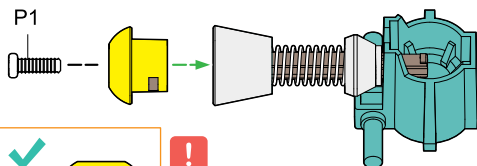
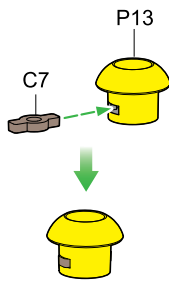
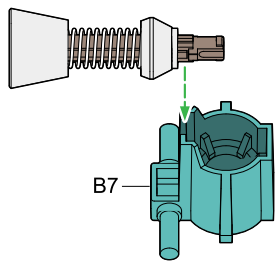
D4



請推到底
PUSH TO END



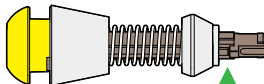
14



✓
正確
Correct

! 請避免螺絲鎖得過緊，以防變形。
Avoid over-tightening screw to prevent deformation.

✗
錯誤
Incorrect



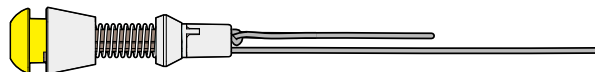
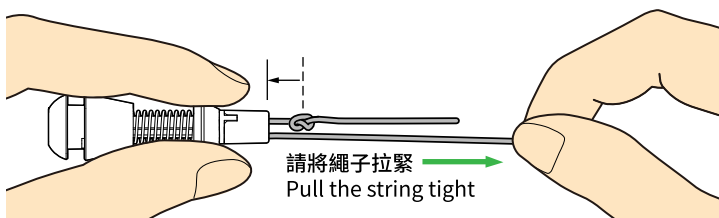
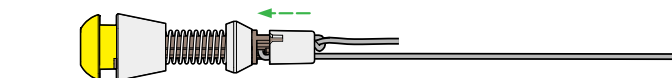
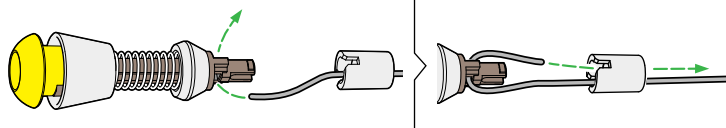
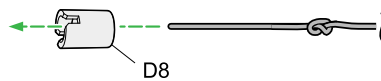
推出
PULL OUT

15

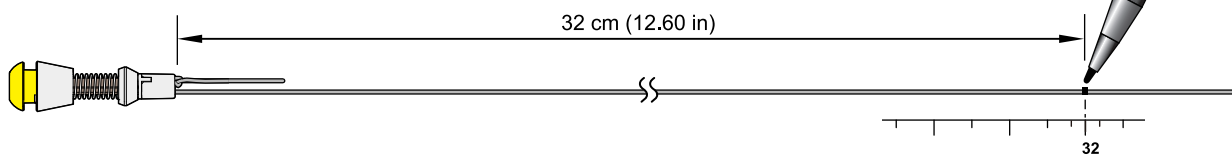
! 請將毛邊修剪乾淨。
Cut off the burrs before assembly.

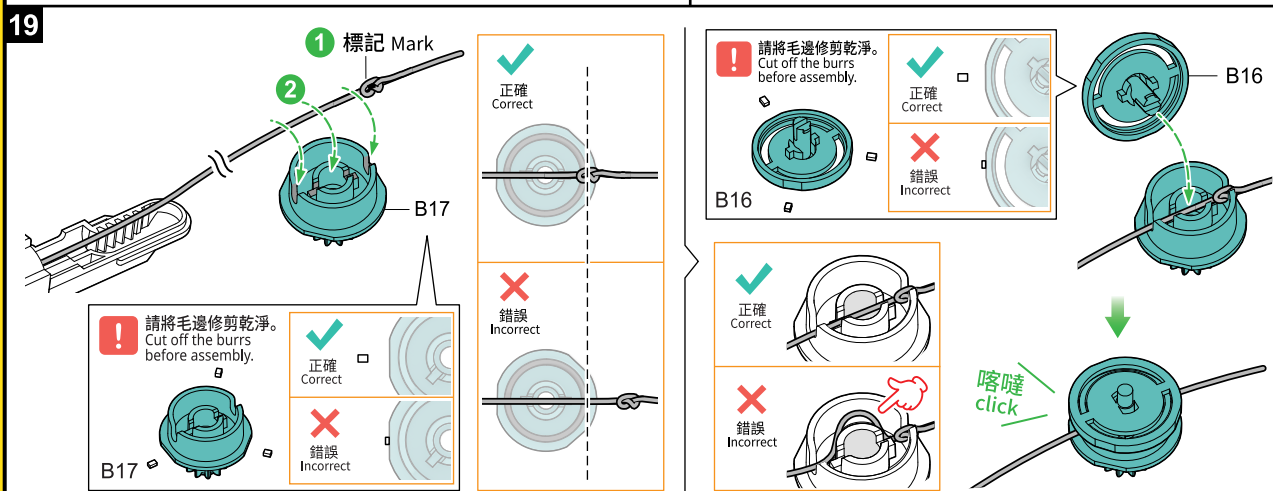
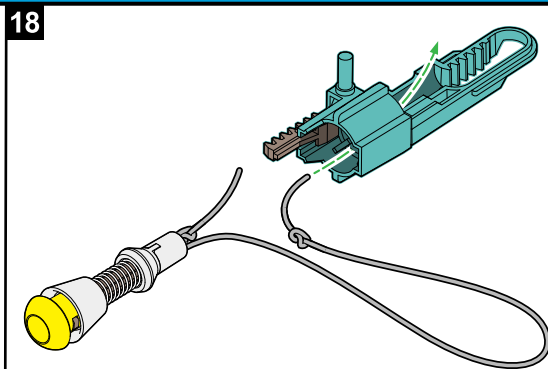
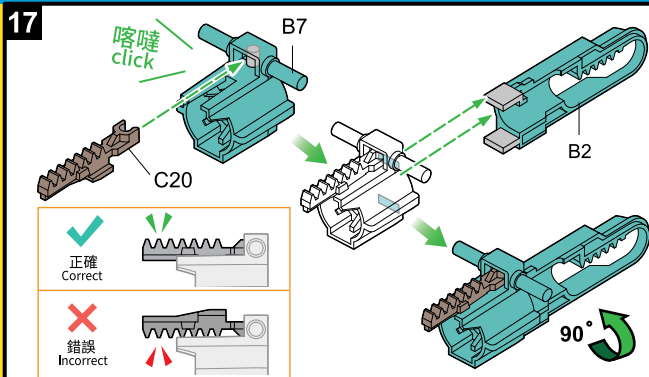


D8



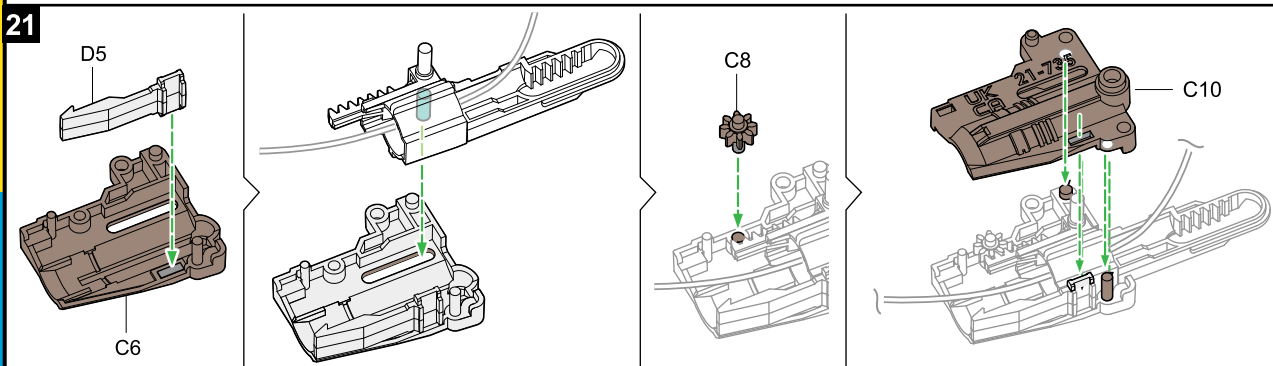
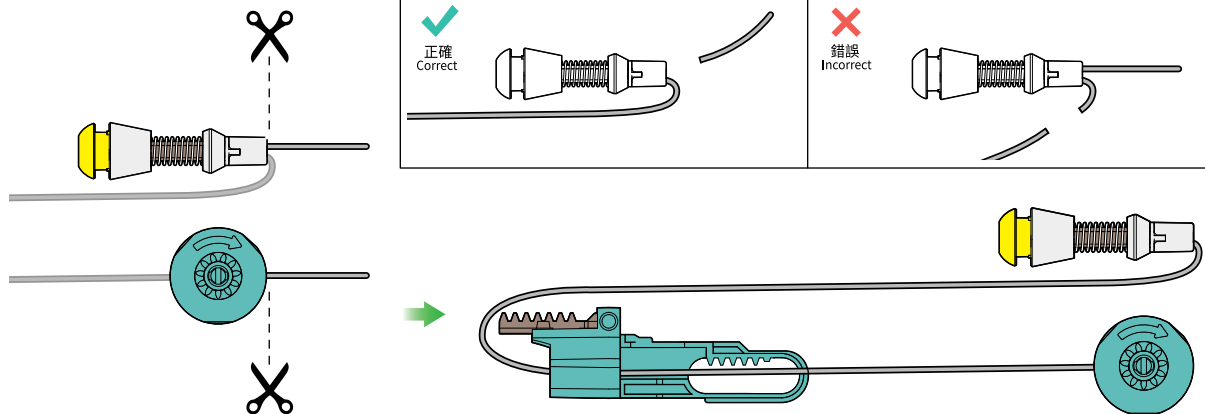
16 請做上標記 Making a mark





20 請裁剪多餘的繩子。
Trim off any excess string

! 請小心別剪錯地方
Be careful not to cut the wrong string

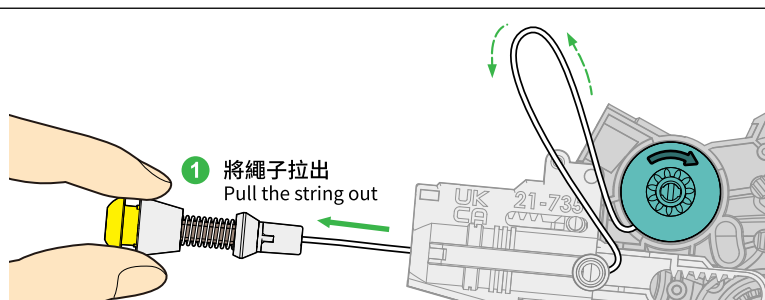
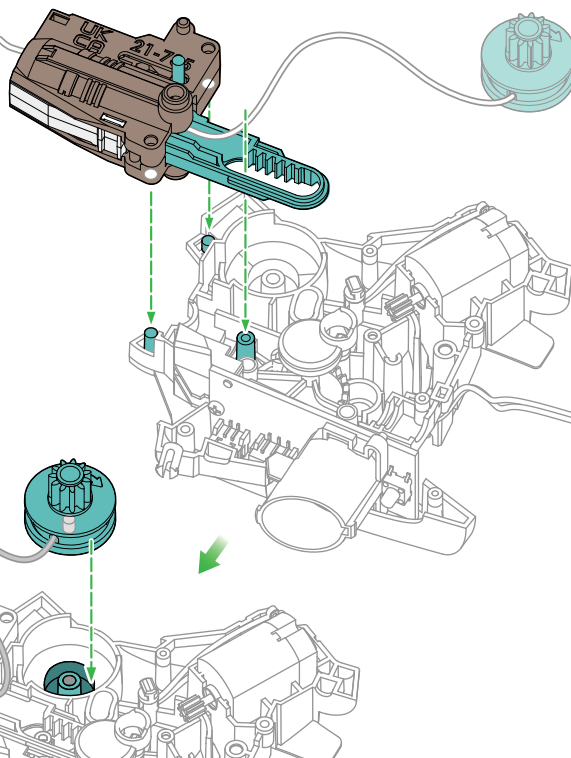
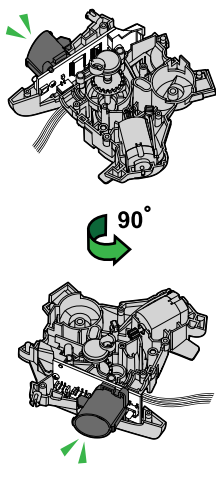
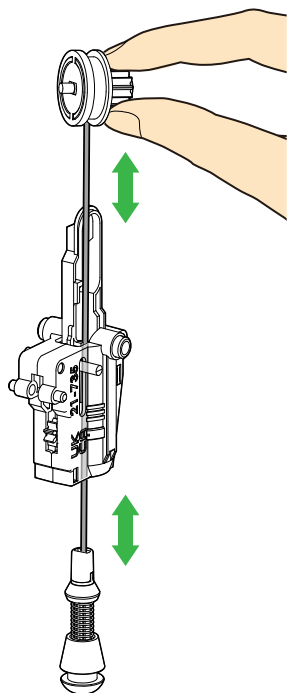


測試 Testing

22

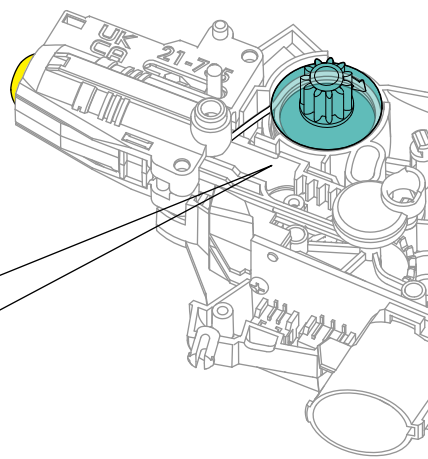
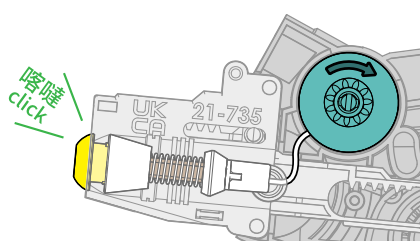
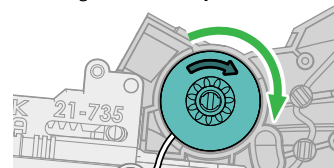


請確保繩子能順暢地上下拉動。
The string must move smoothly when pulled up and down.

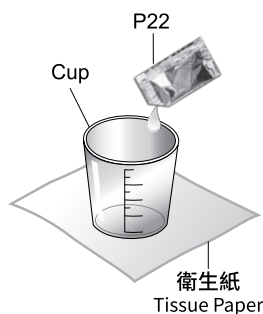


1 將繩子拉出
Pull the string out

2 將齒輪旋轉到底，收回繩子。
Retract the string by rotating the gear all the way.



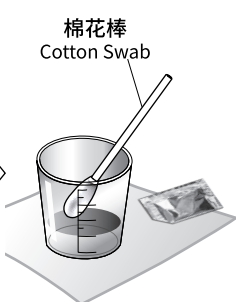
如何為零件上油 How To Oil The Parts



P22

Cup

衛生紙
Tissue Paper



棉花棒

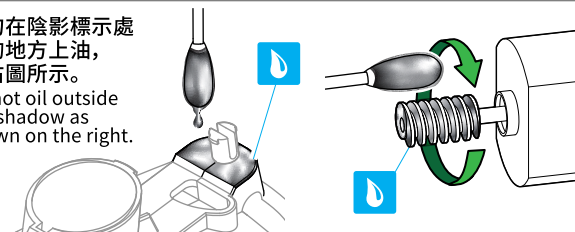
Cotton Swab

上油
Apply Oil

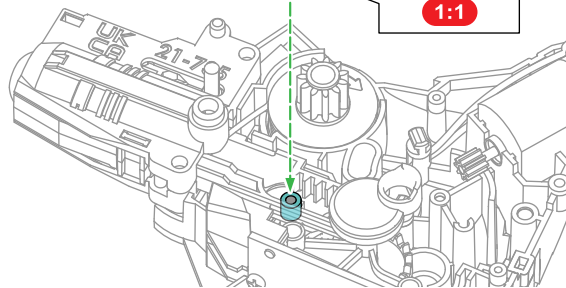
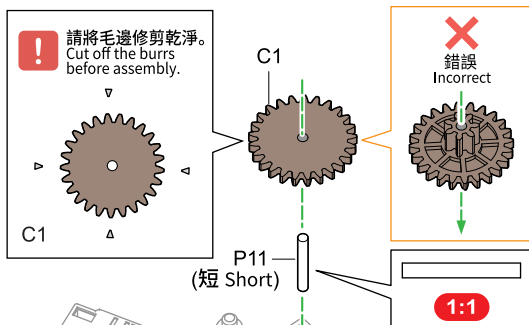
注意：出現  時為零件上油。
Note: Oil the parts when  appears.



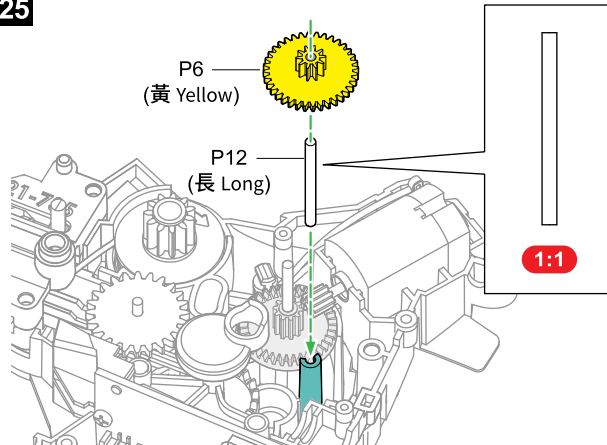
請勿在陰影標示處外的地方上油，如右圖所示。
Do not oil outside the shadow as shown on the right.



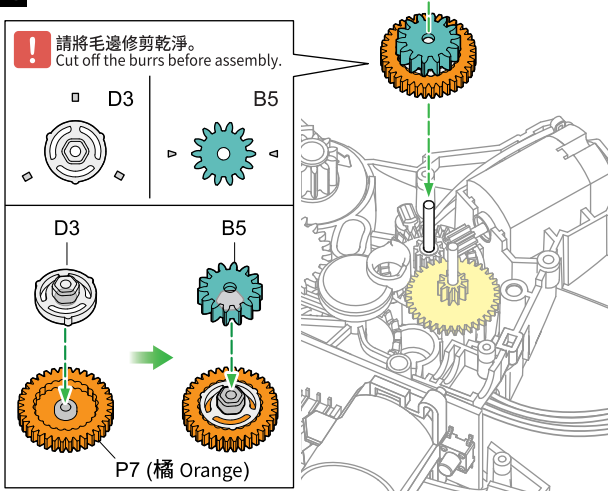
23



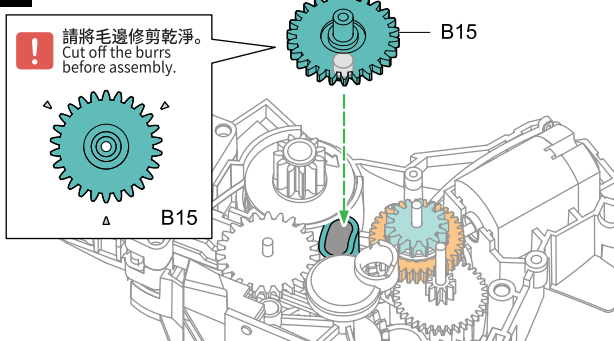
25



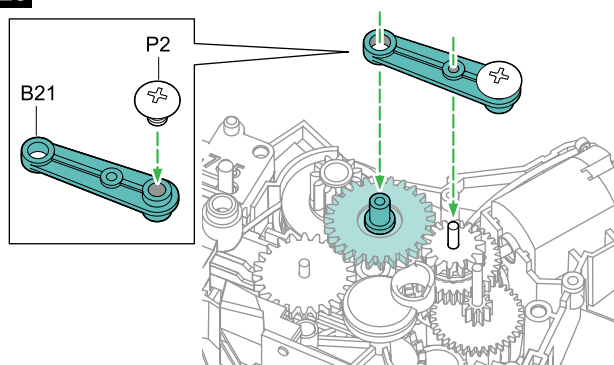
26



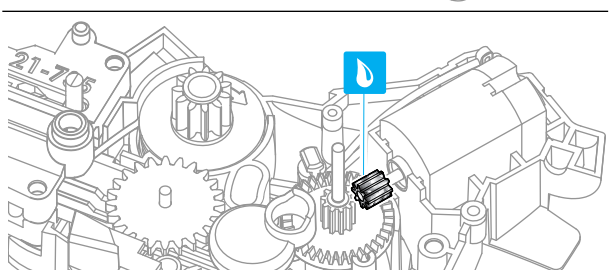
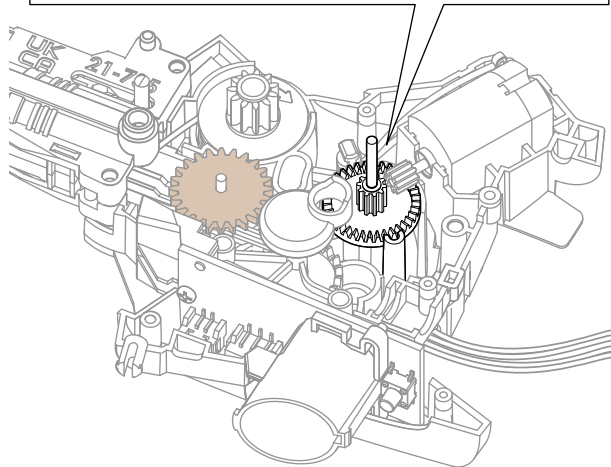
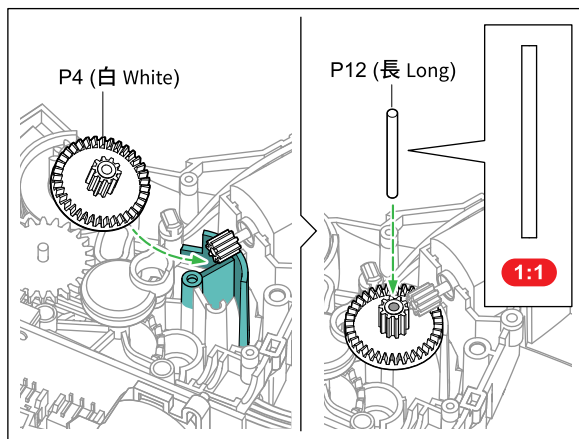
27



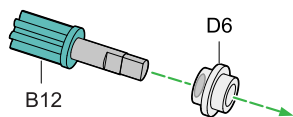
28



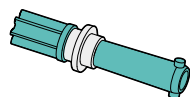
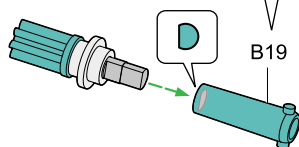
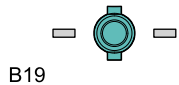
24



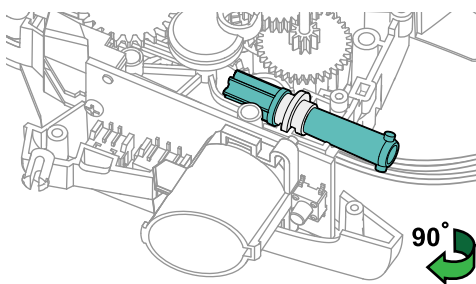
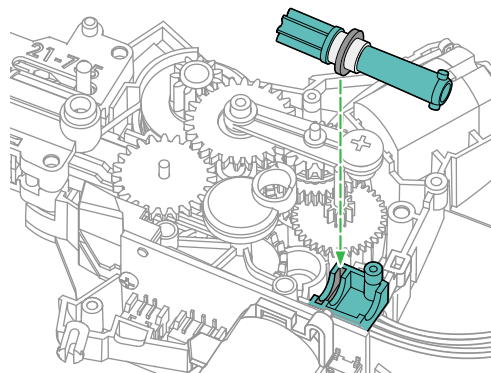
29



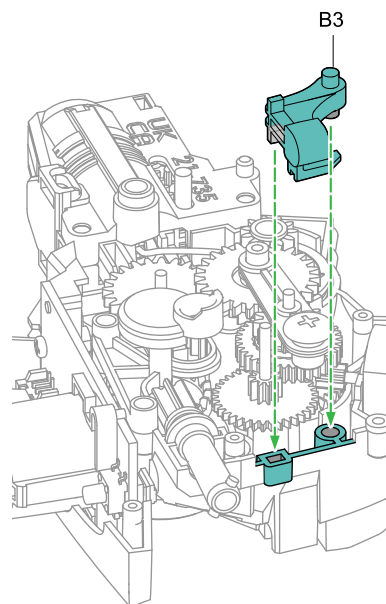
! 請將毛邊修剪乾淨。
Cut off the burrs
before assembly.



30

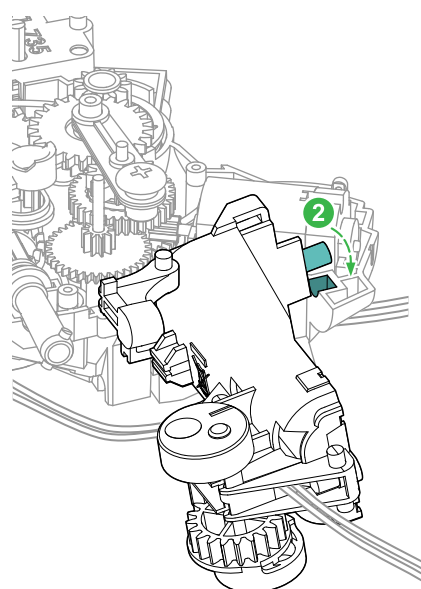
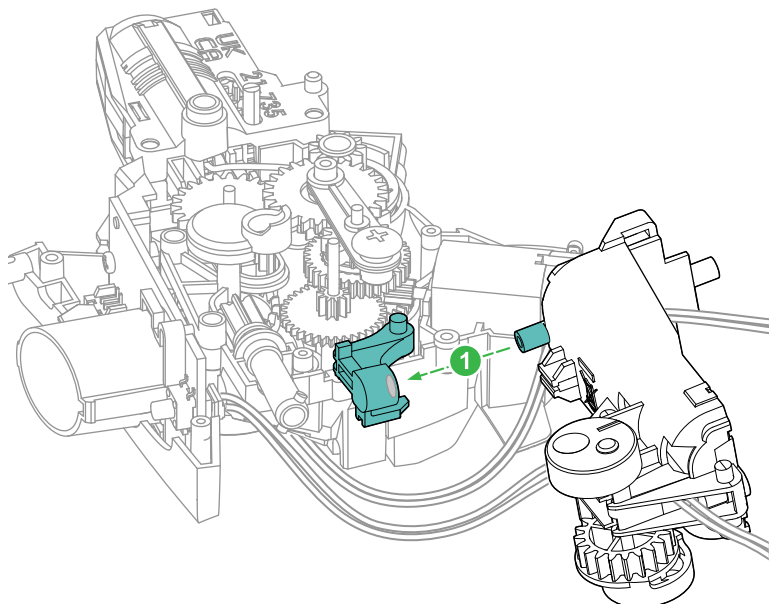
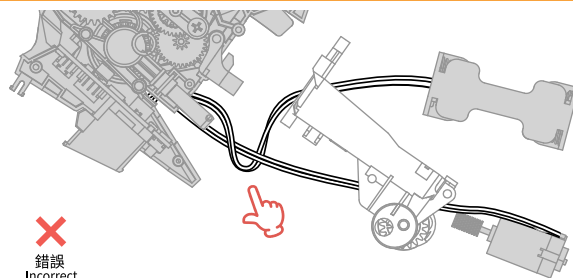
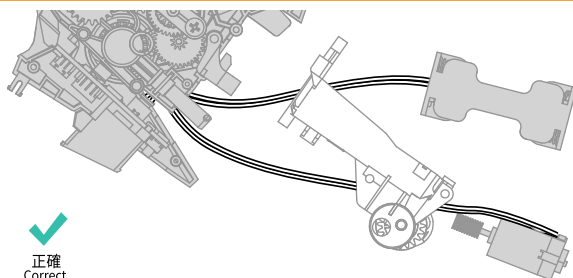


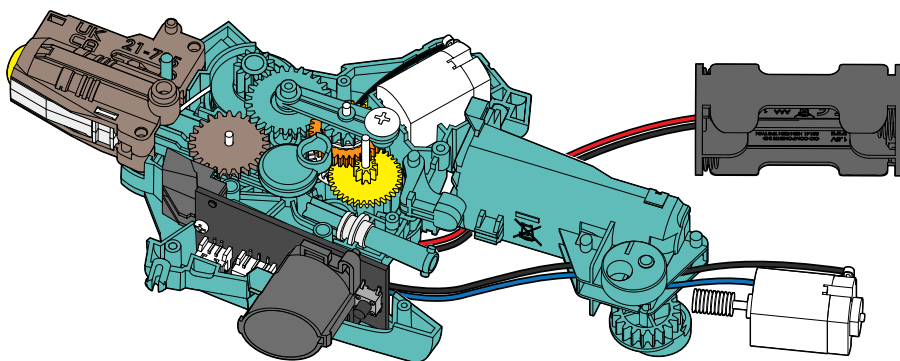
31



32

! 請確認繩子沒有纏繞在一起。Please check if the cables are tangled.



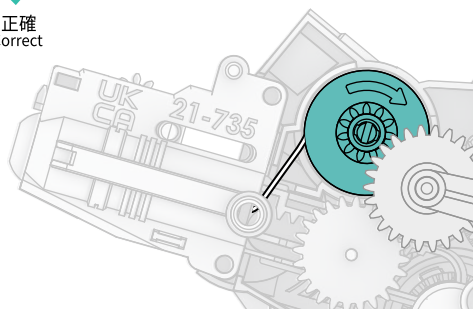


33

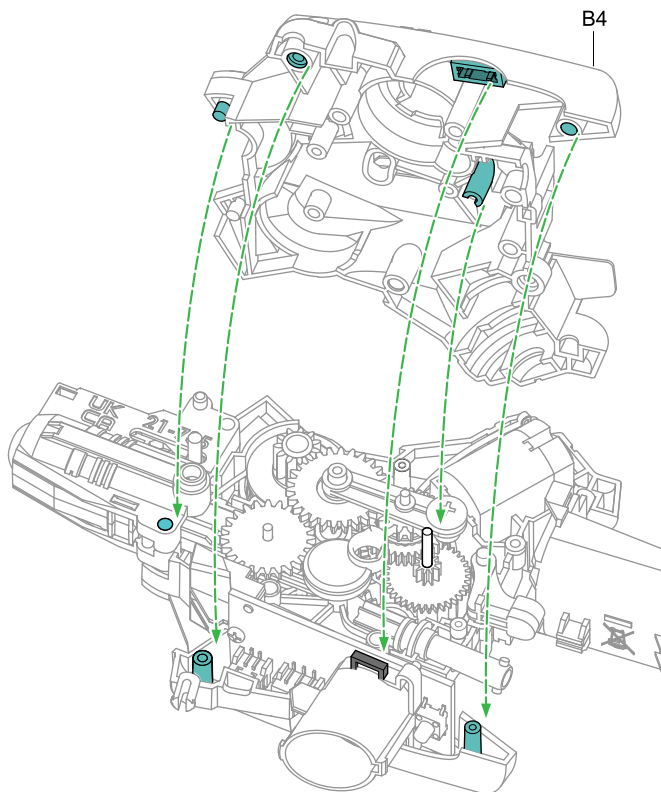
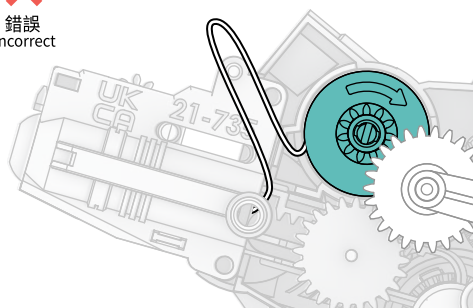
! 檢查繩子是否已完全收回。
Check if the cotton string is fully retracted



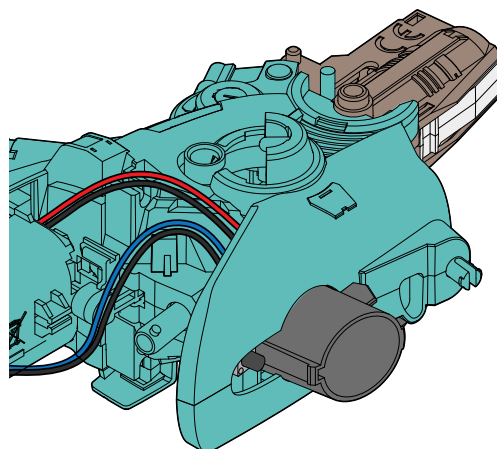
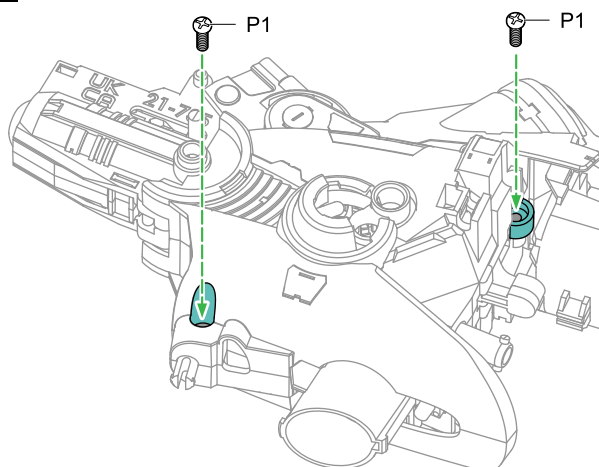
正確
Correct



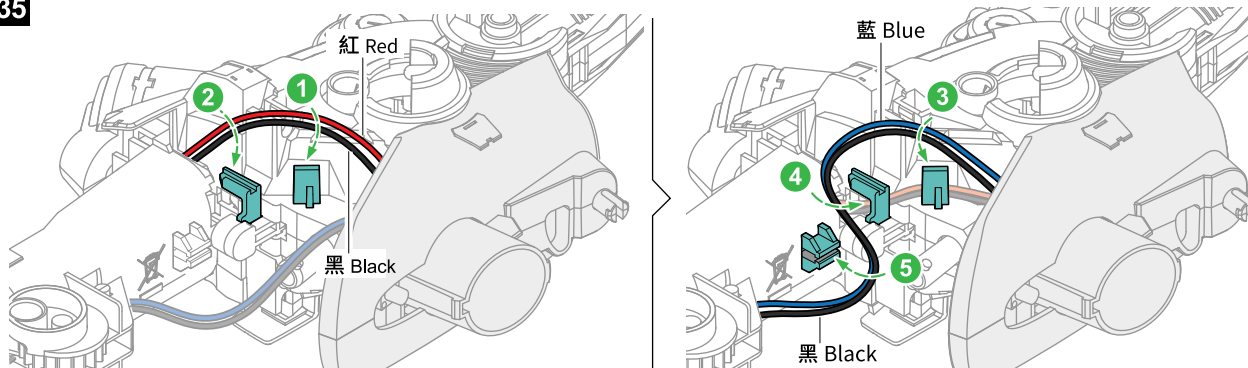
錯誤
Incorrect



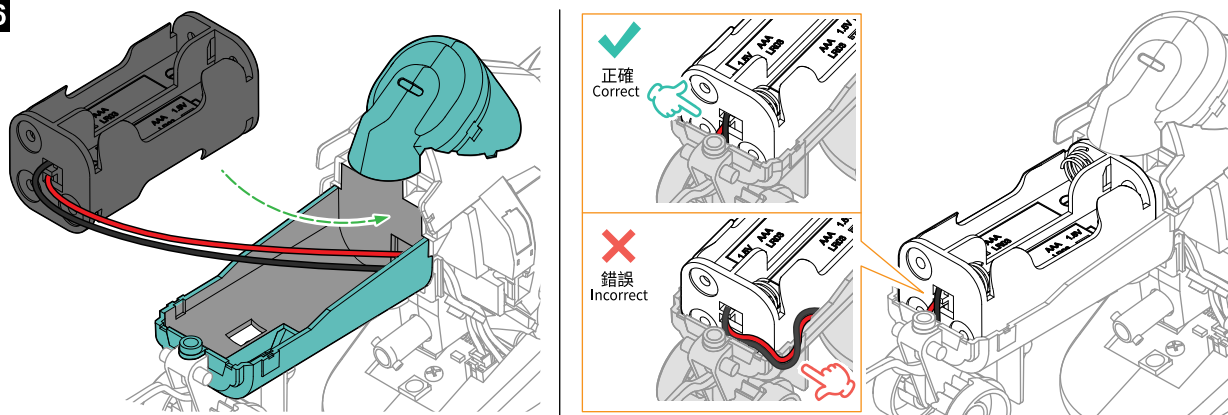
34



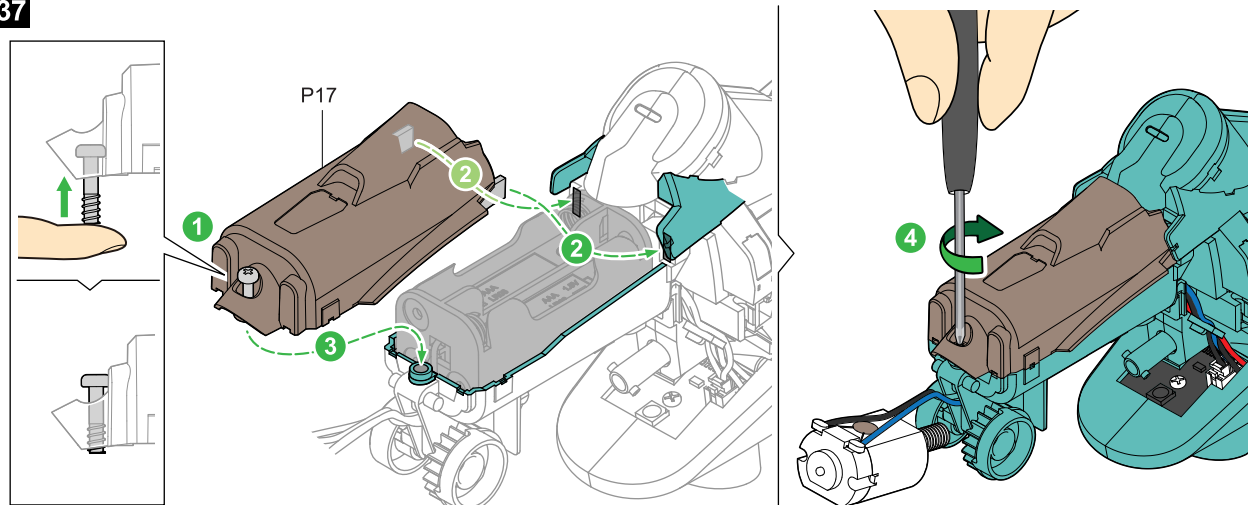
35



36

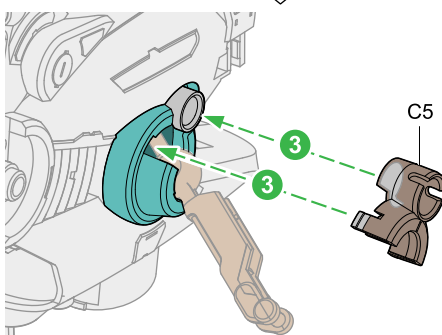
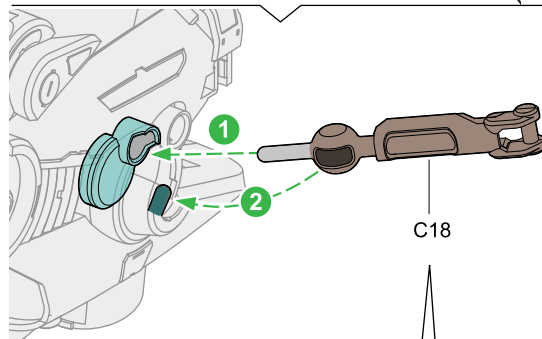
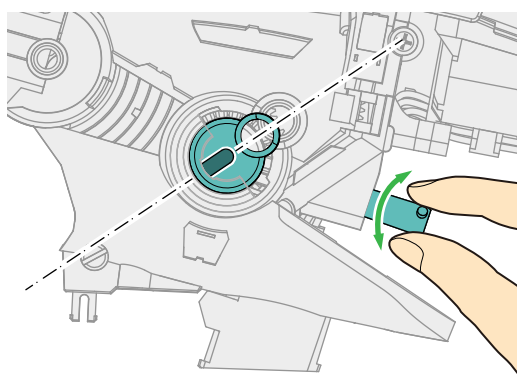
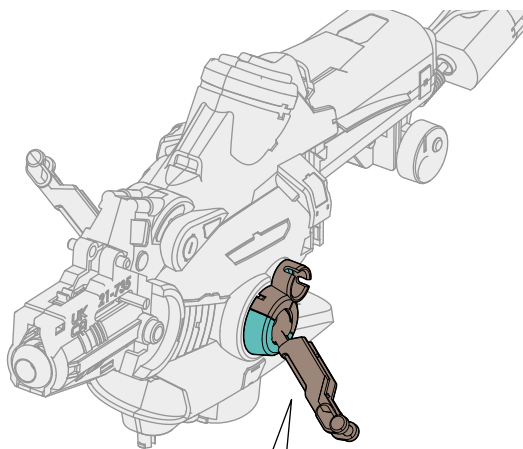
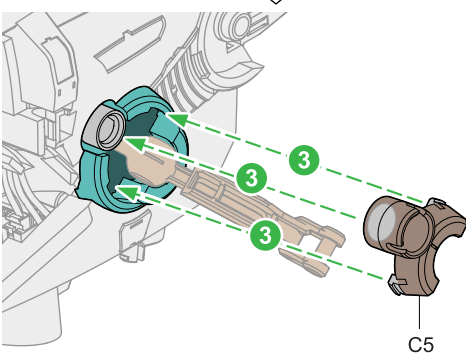
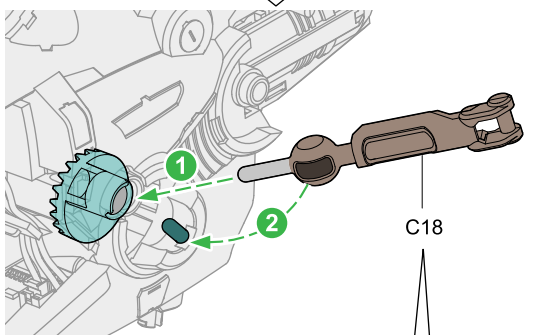
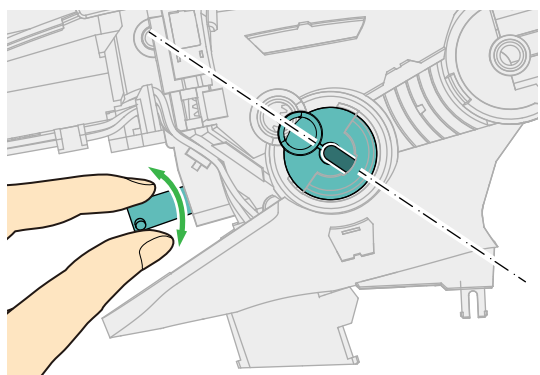
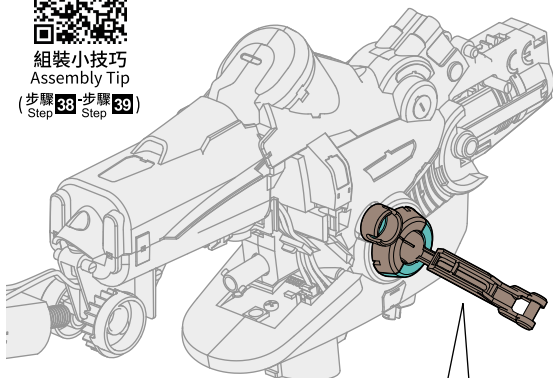


37

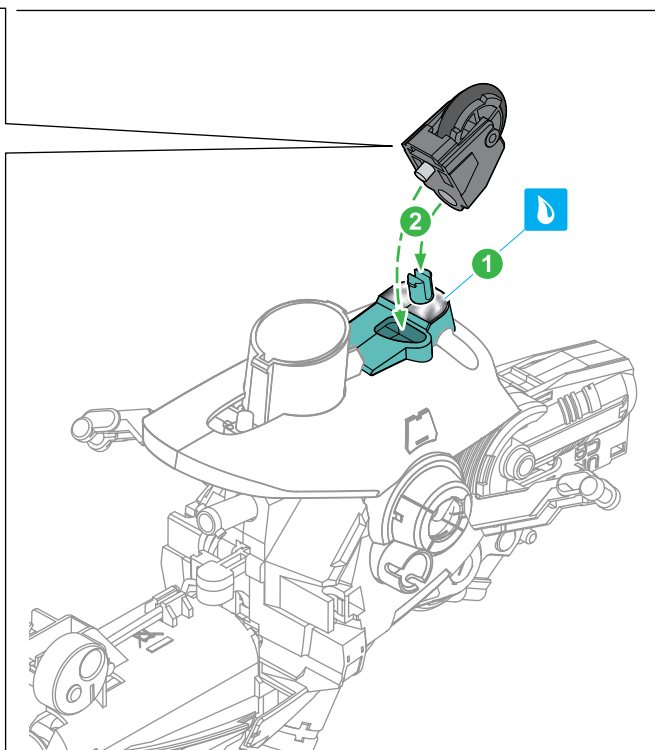
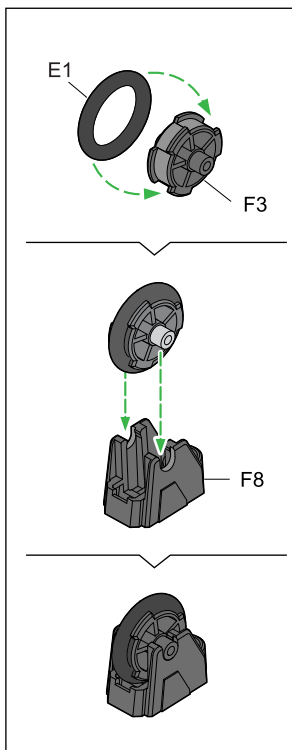
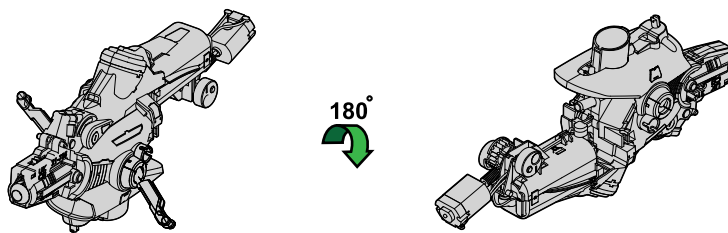




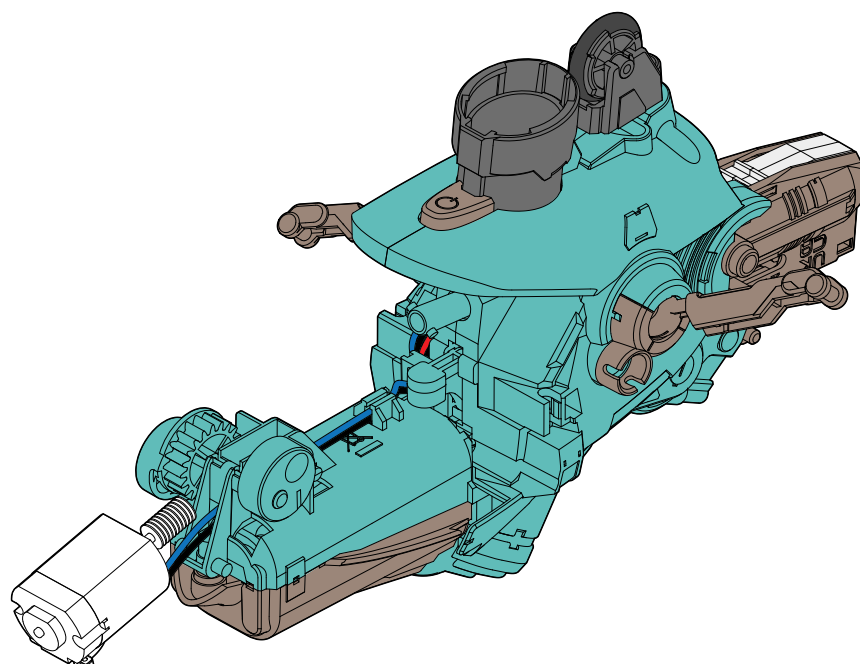
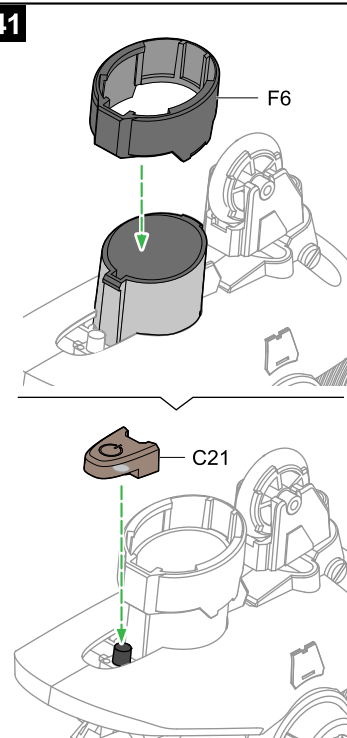
組裝小技巧
Assembly Tip
(步驟 38 步驟 39)
Step Step



40



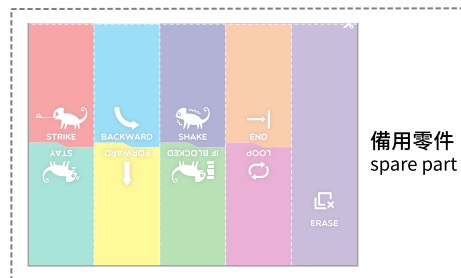
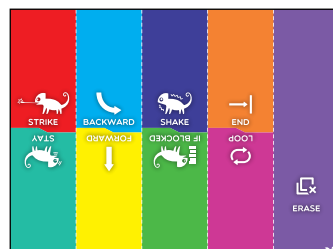
41



色卡切割 Color Chart Assembly

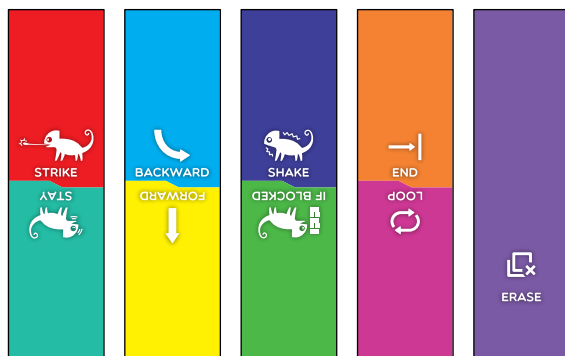
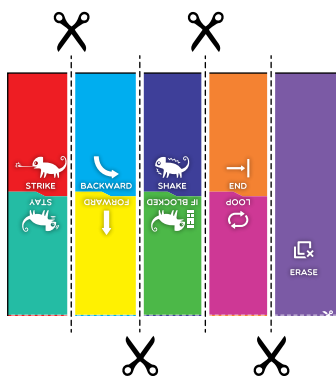
1

P19



備用零件
spare part

2



酷迪是如何變色的呢?

How does Codee change colors?

酷迪是透過「紅外線顏色感測」來變色的唷！
紅外線顏色感測的原理就是透過發射出紅外線，
分辨物體對紅外線反射與吸收的程度，來判斷
顏色的唷！

Codee changes colors using infrared color sensing!
Here's how it works: Codee emits infrared light and
detects how much of that light is reflected or absorbed
by different objects. Based on this reflection, it can
determine the color—just like magic, but powered by
science!

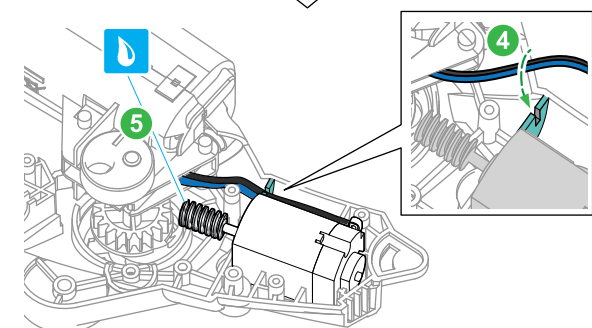
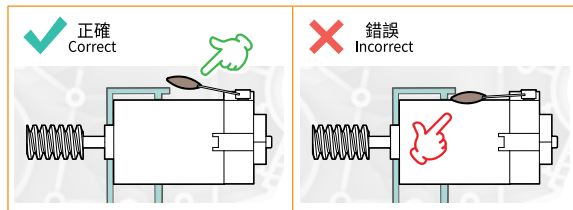
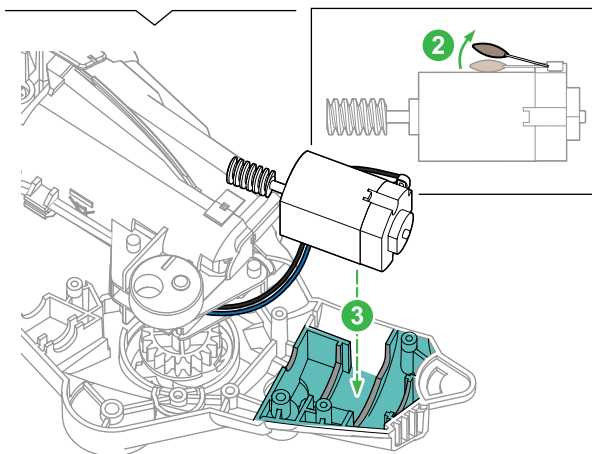
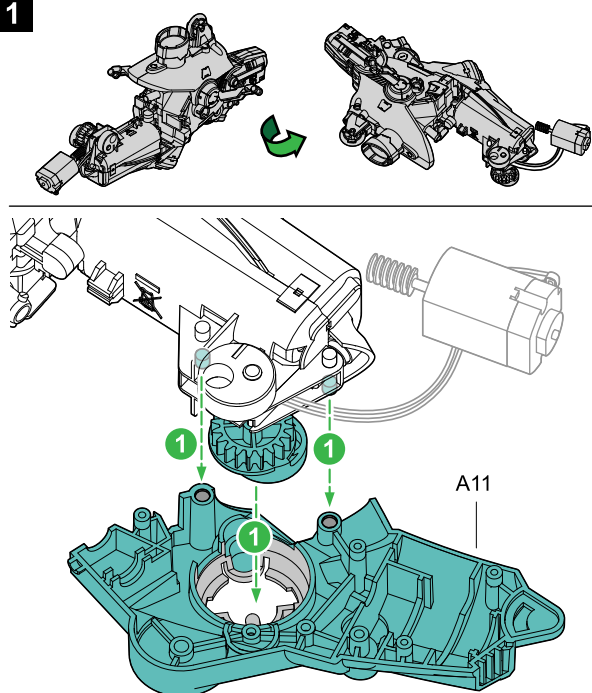


RGB

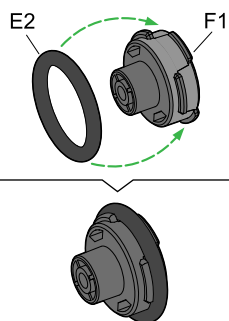
顏色感測器
Color sensor

後齒輪箱組裝 Back Gear Box Assembly

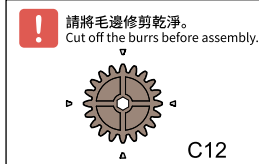
1



2

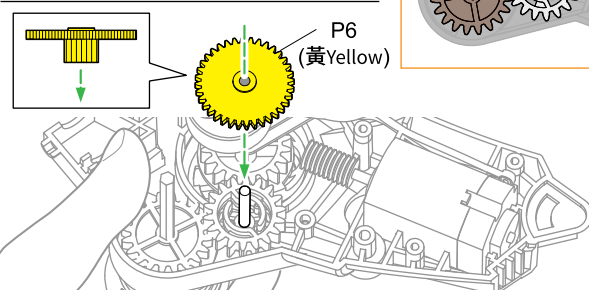
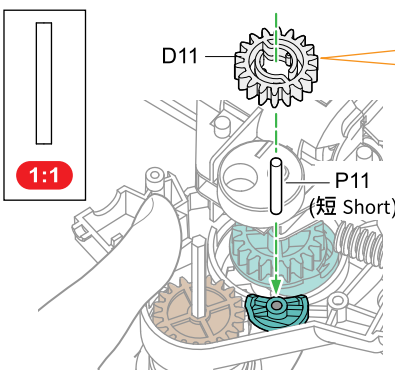
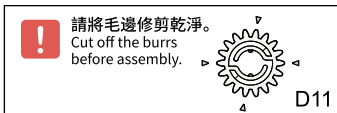


4

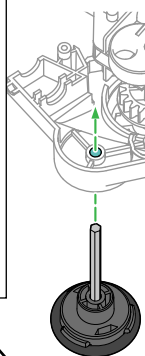


用手掌向上固定住輪子，防止其掉落。
Push the wheel upward with your palm to prevent it from falling off.

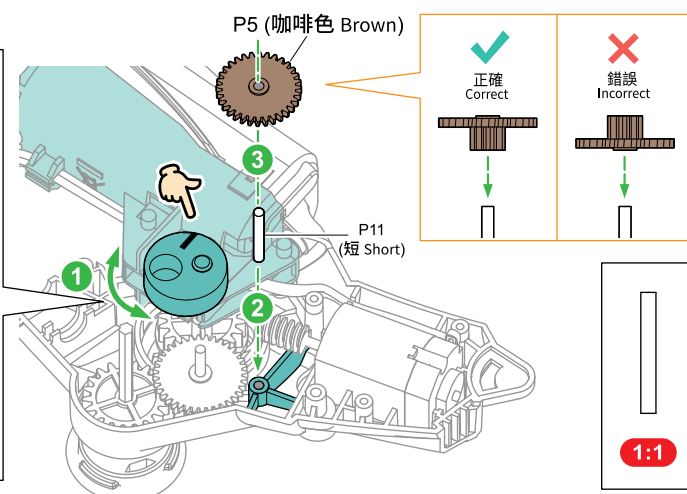
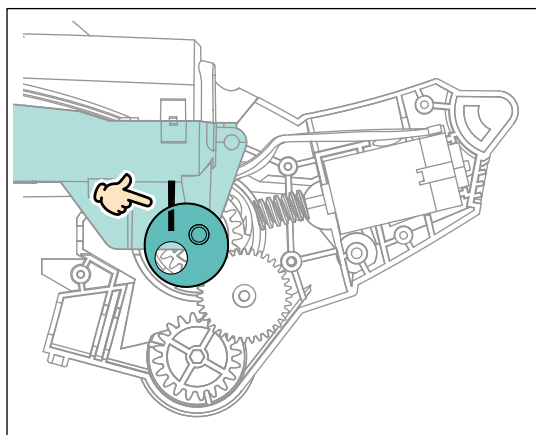
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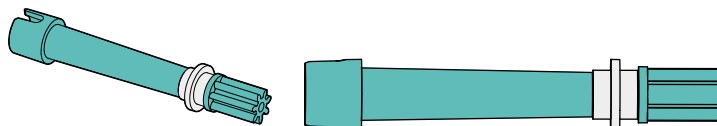
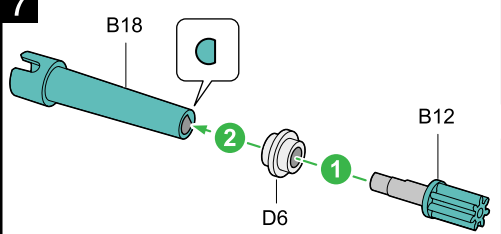
組裝小技巧
Assembly Tip
(步驟 3 步驟 12)
Step 3 Step 12



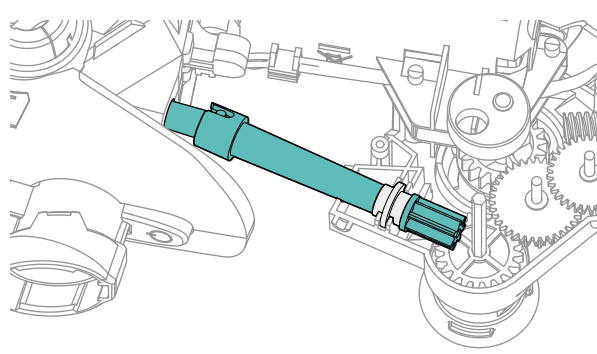
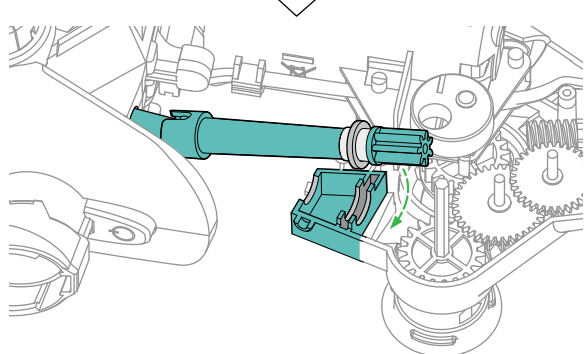
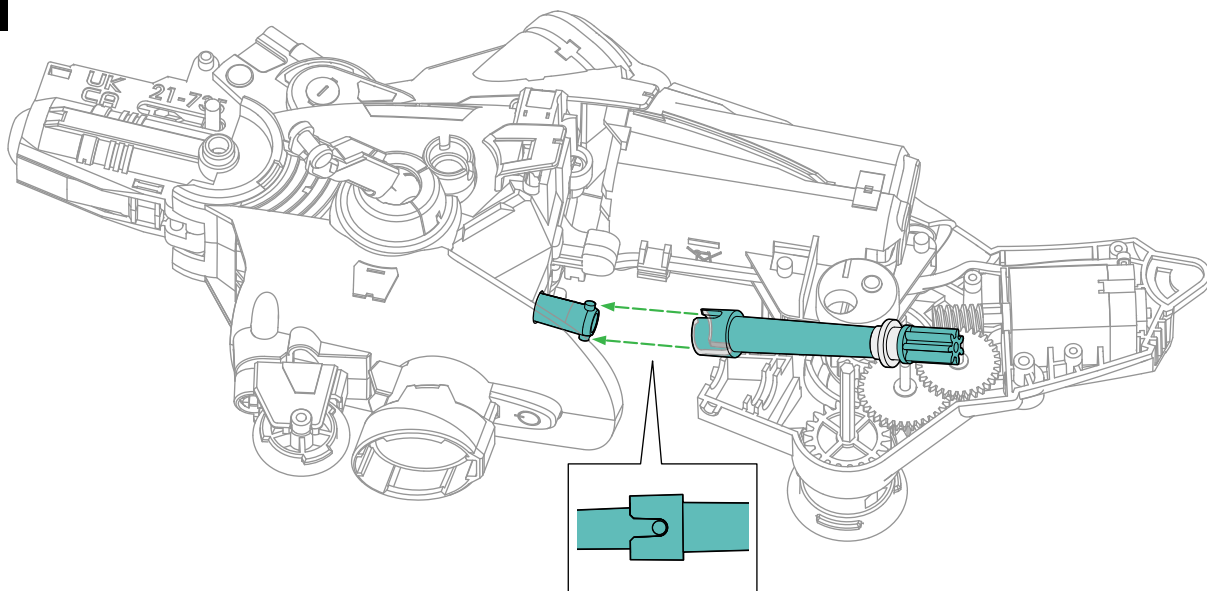
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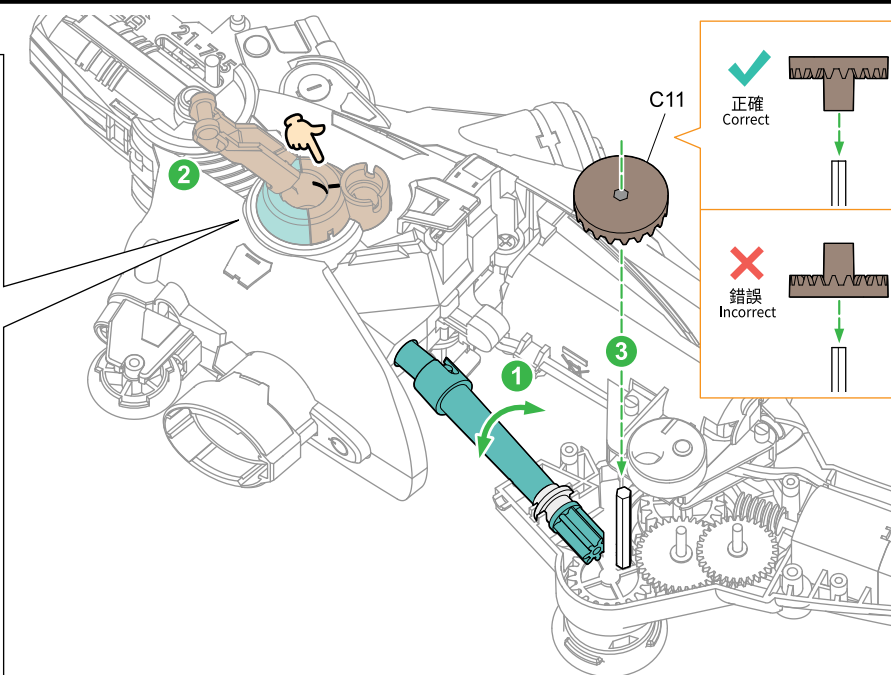
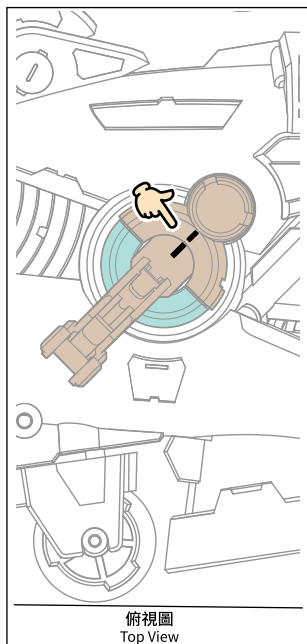
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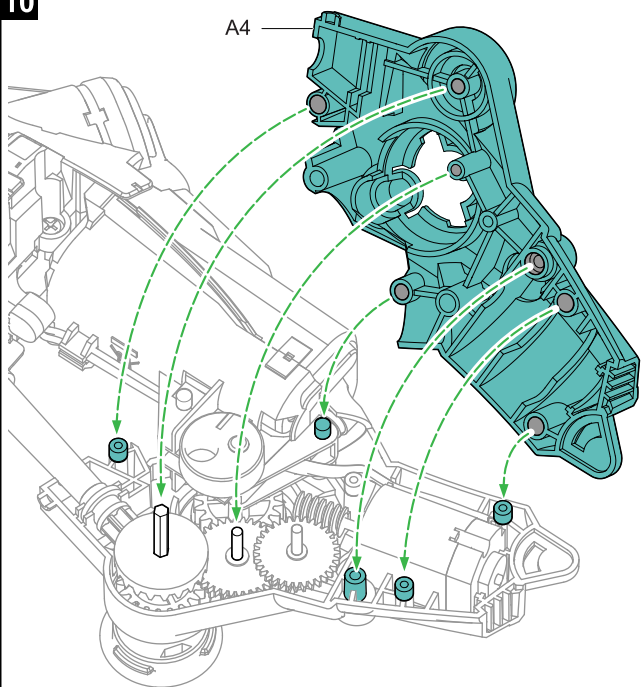
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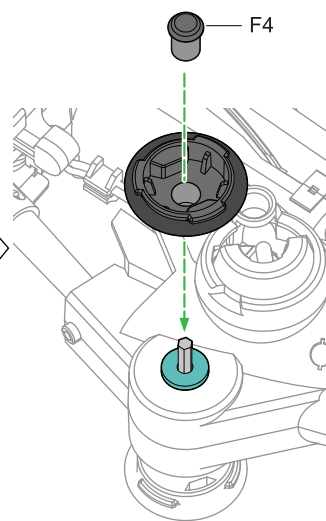
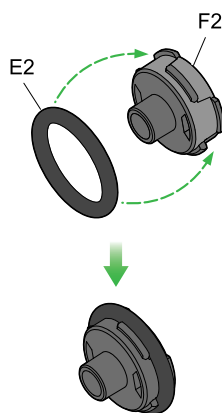
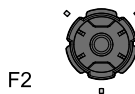


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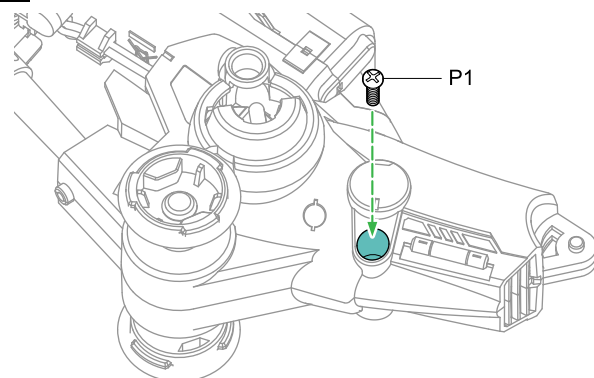


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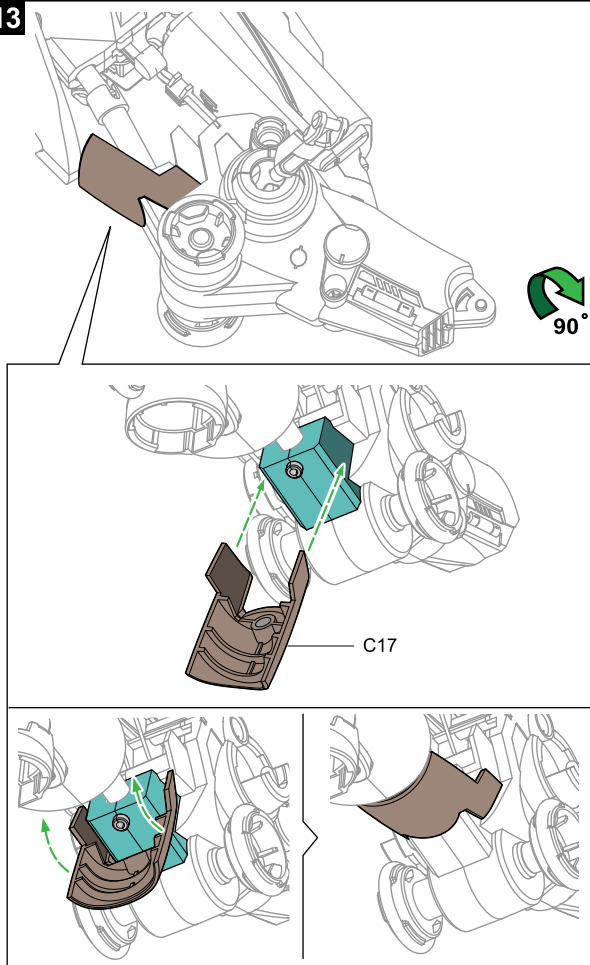
! 請將毛邊剪乾淨。
Cut off the burrs
before assembly.



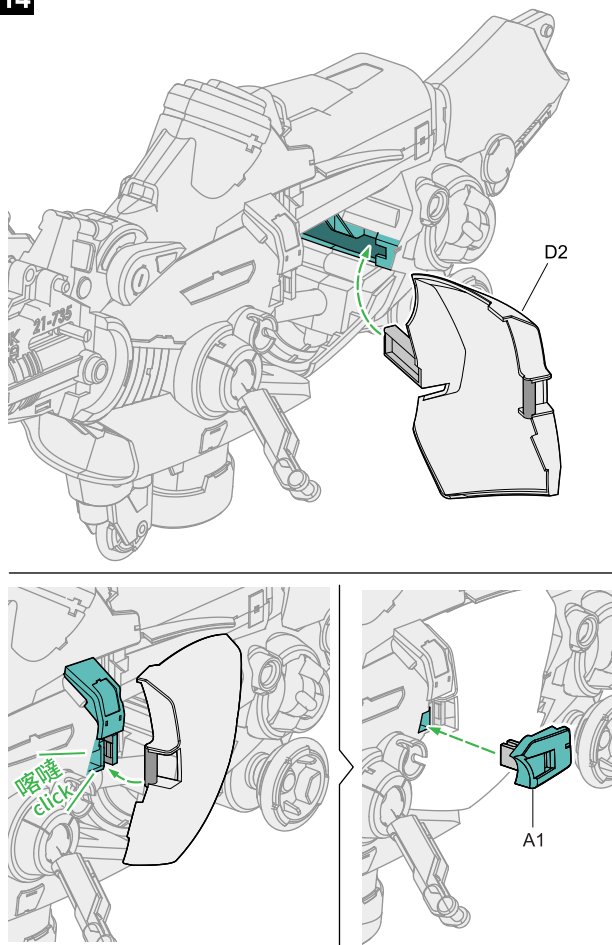
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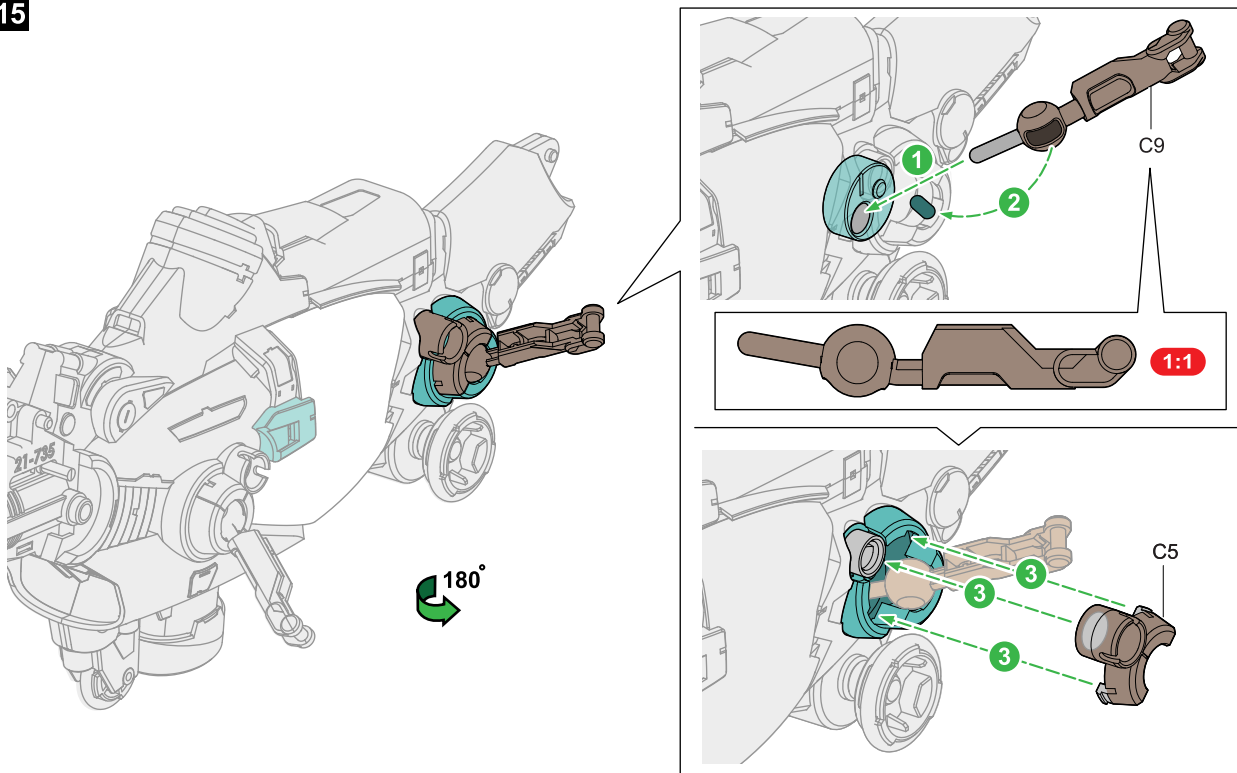
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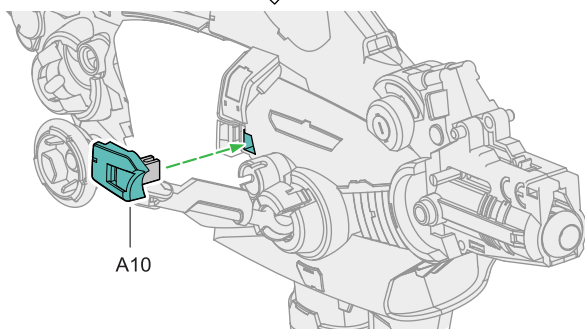
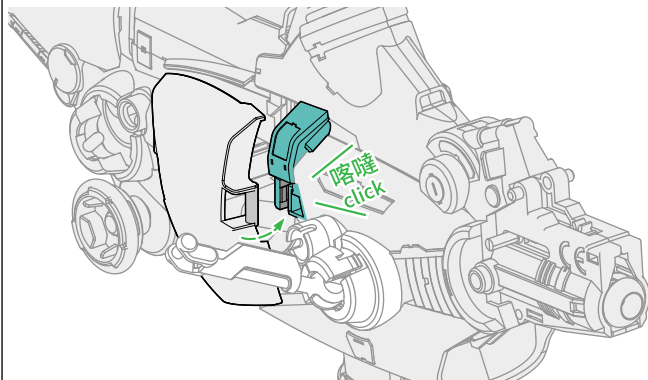
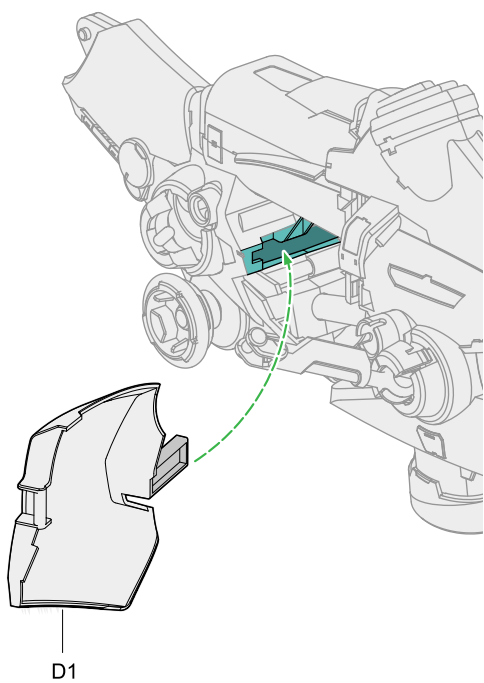
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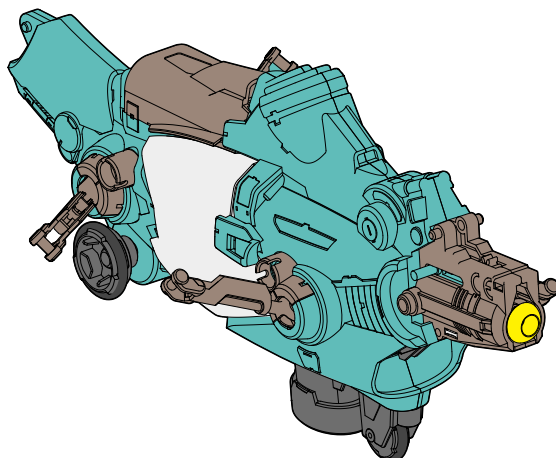
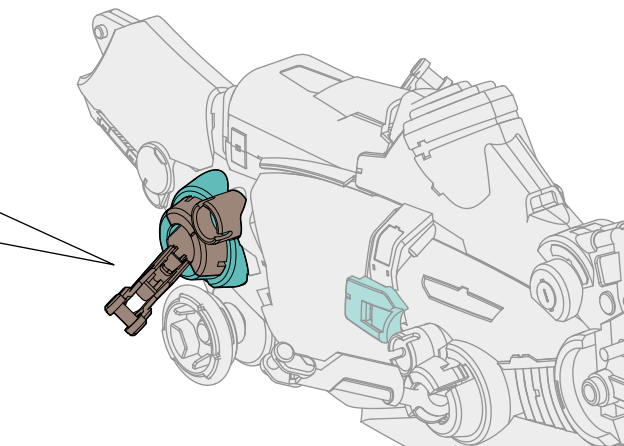
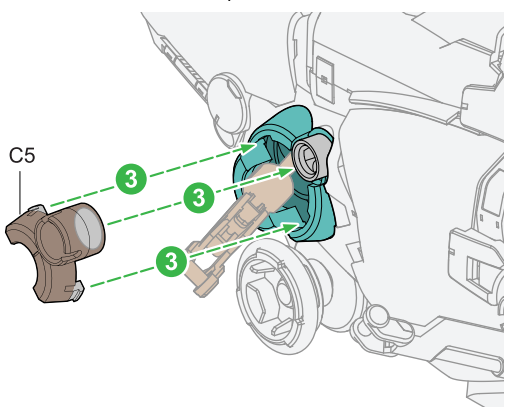
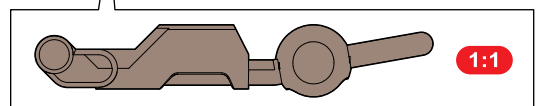
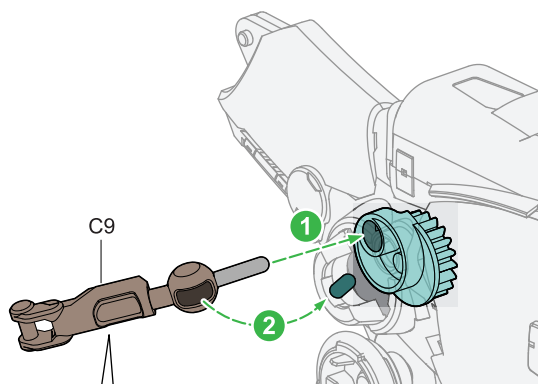
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16



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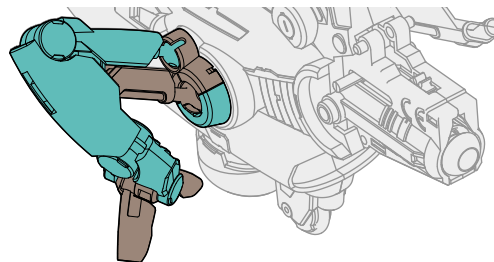
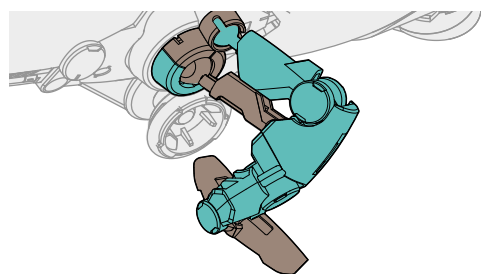
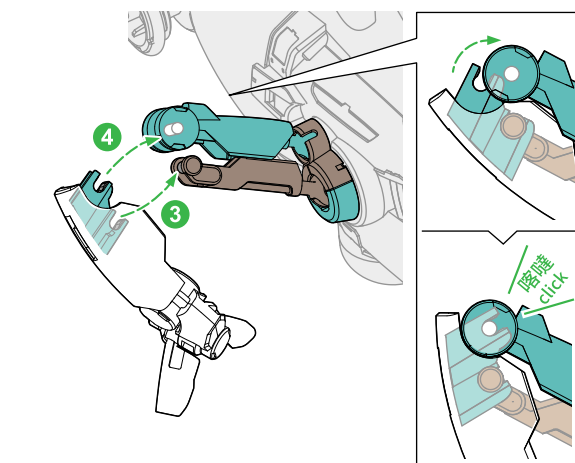
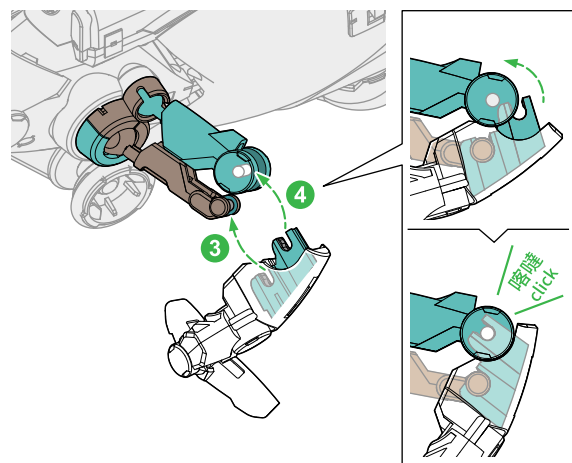
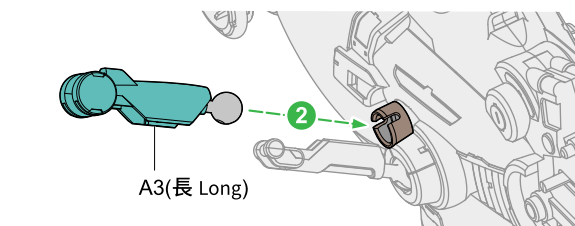
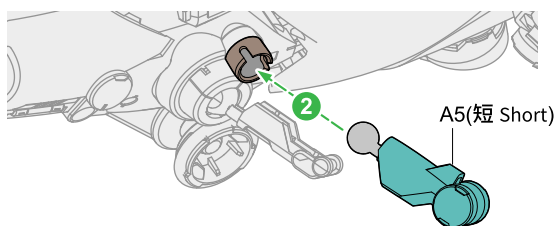
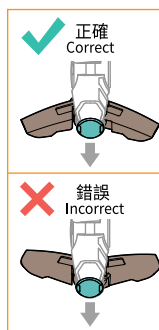
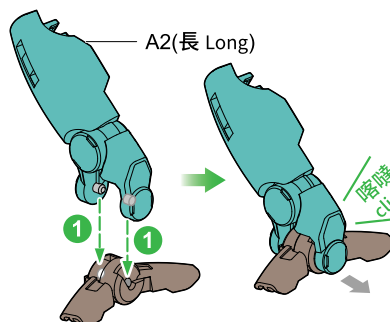
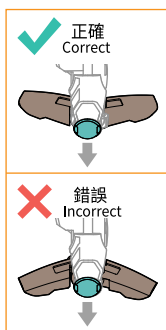
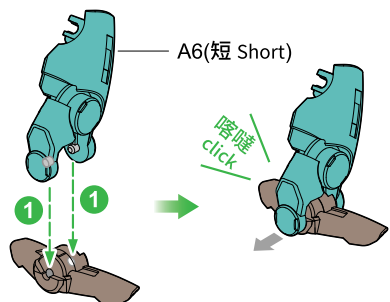
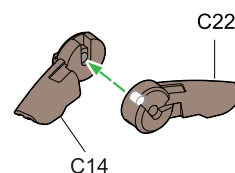
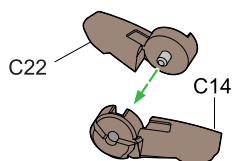


腿部組裝 Legs Assembly

1

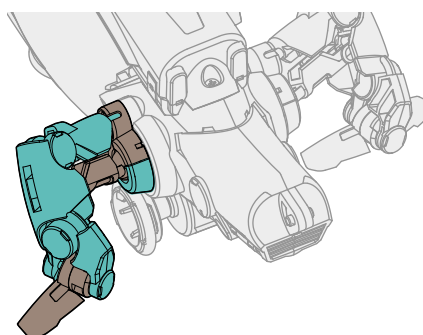
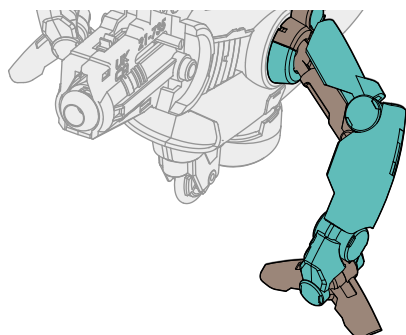
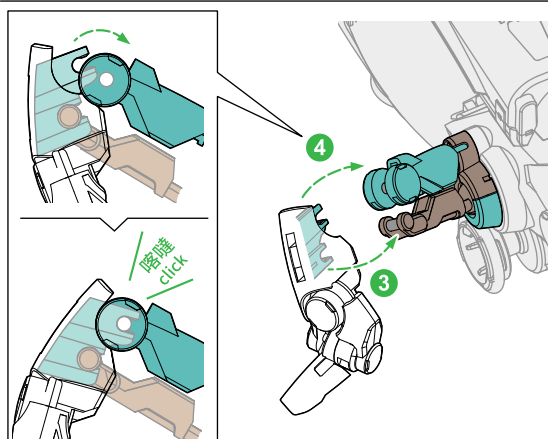
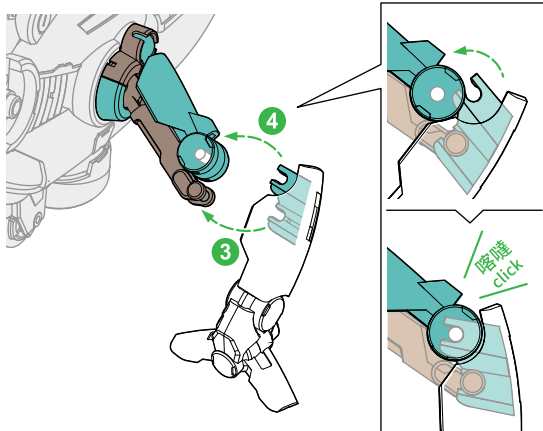
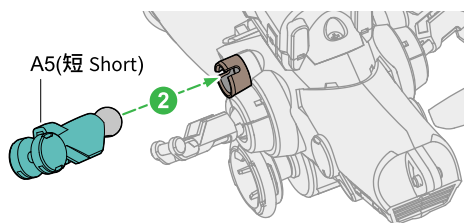
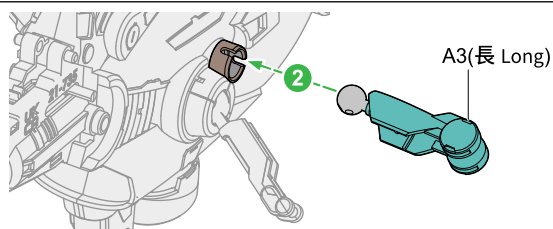
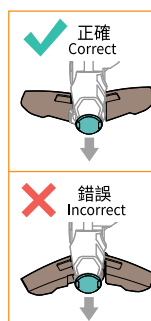
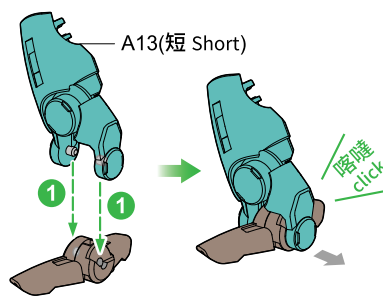
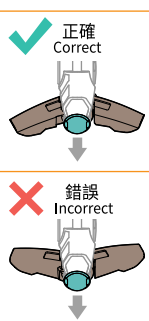
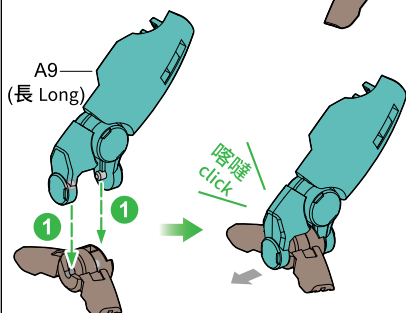
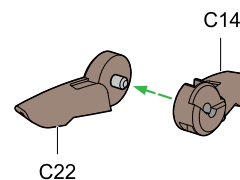
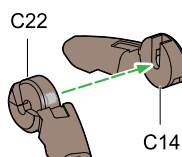
尾部 Tail Side

頭部 Head Side



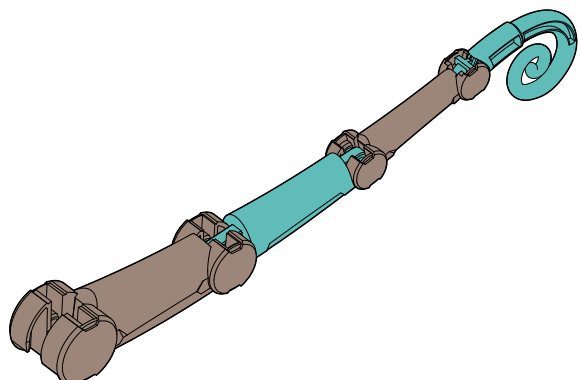
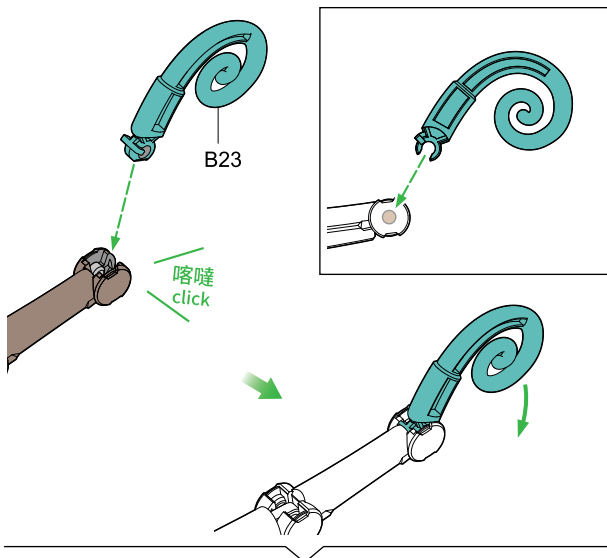
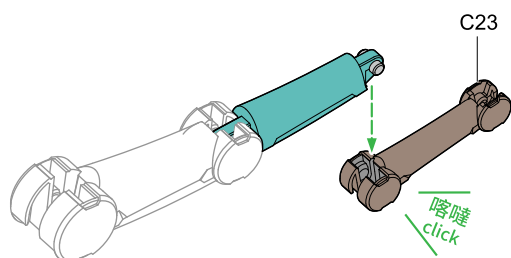
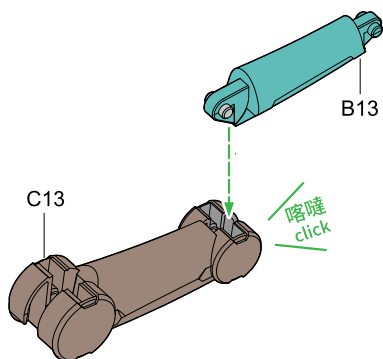
頭部 Head Side

尾部 Tail Side

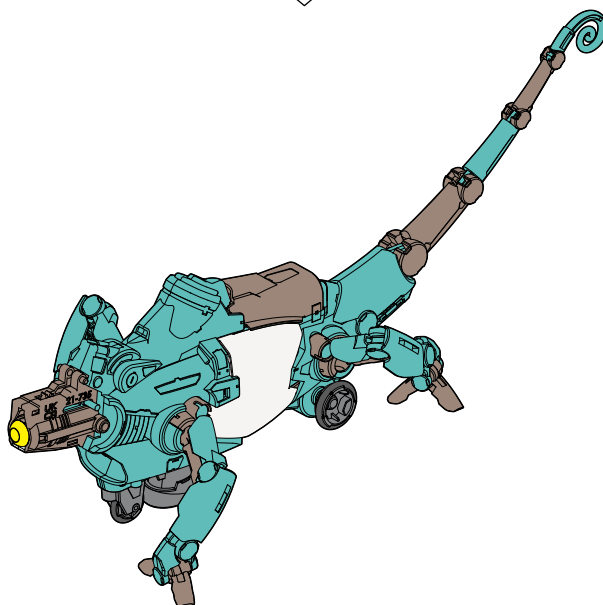
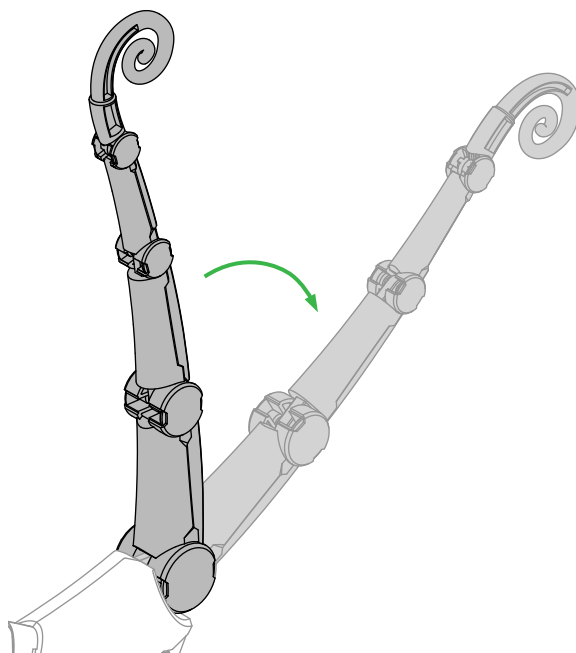
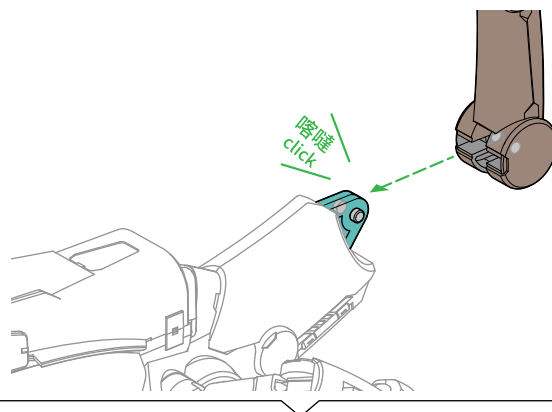


尾巴組裝 Tail Assembly

1

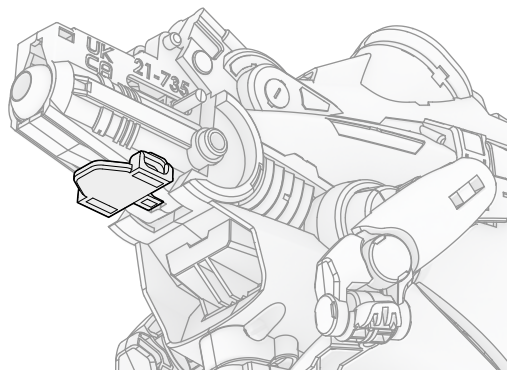
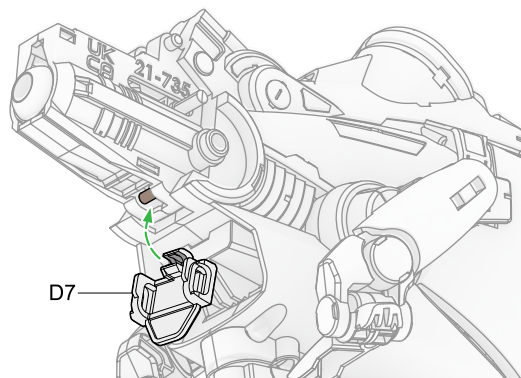


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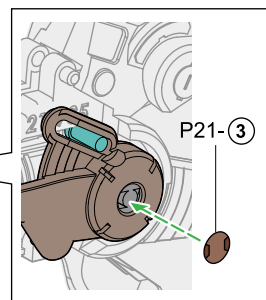
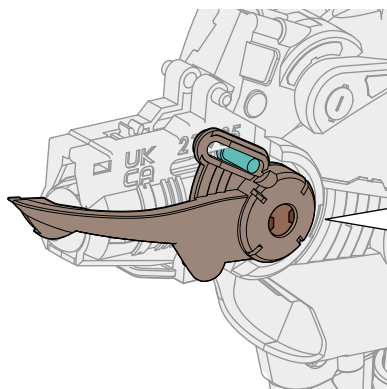
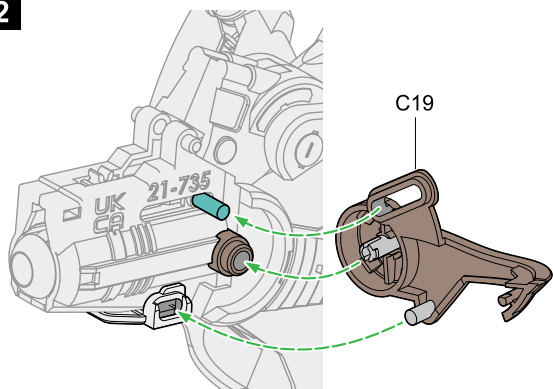


頭部組裝 Head Assembly

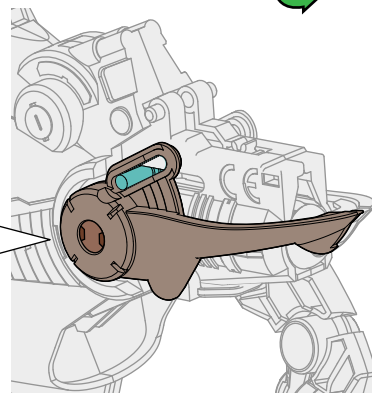
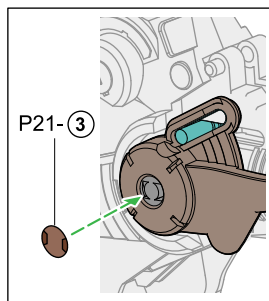
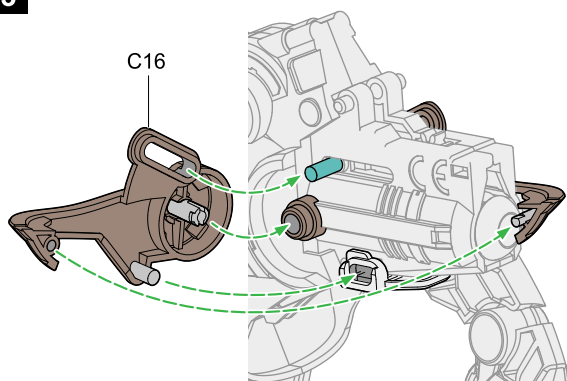
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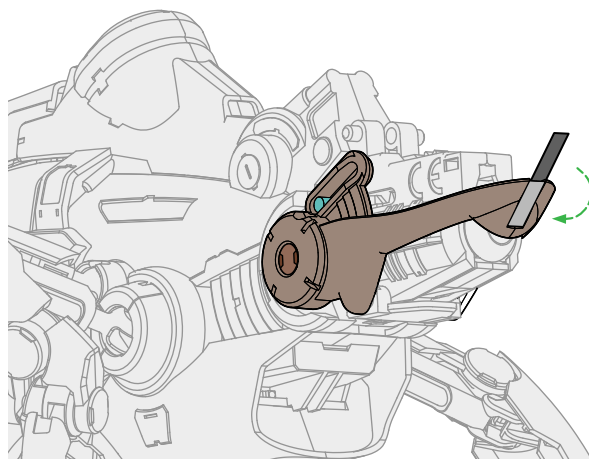
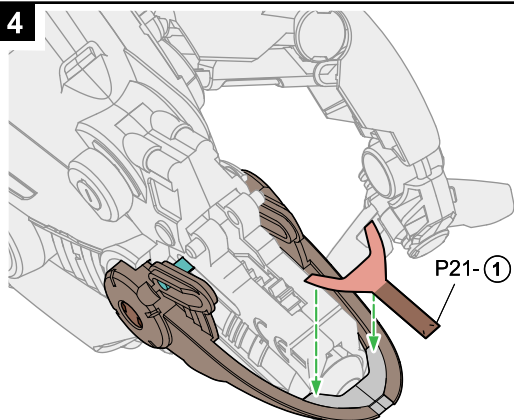
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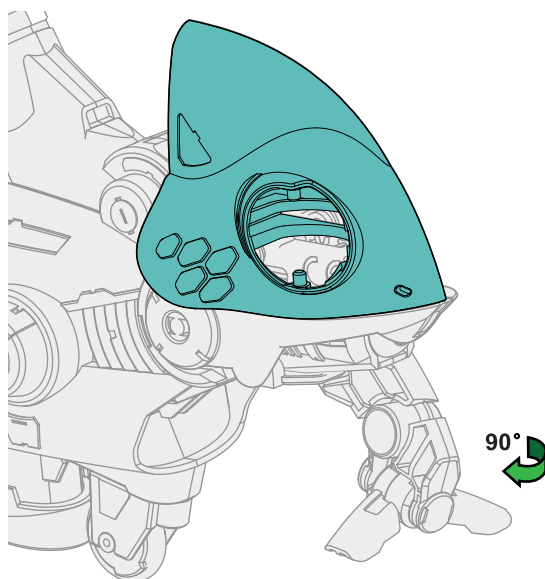
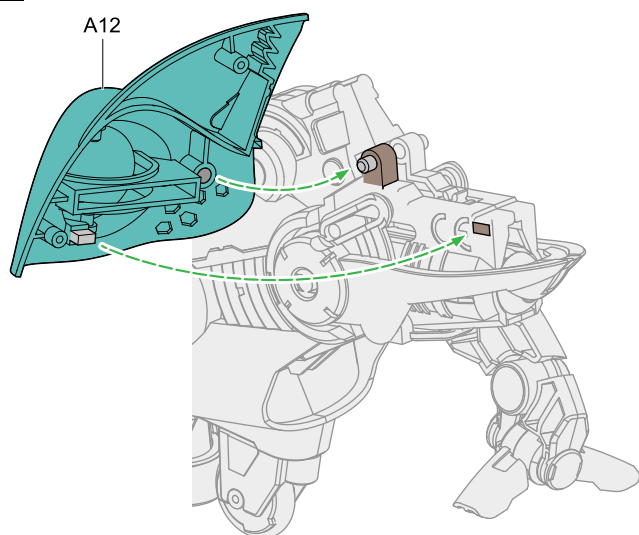


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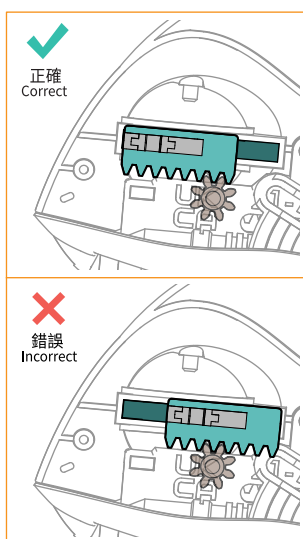
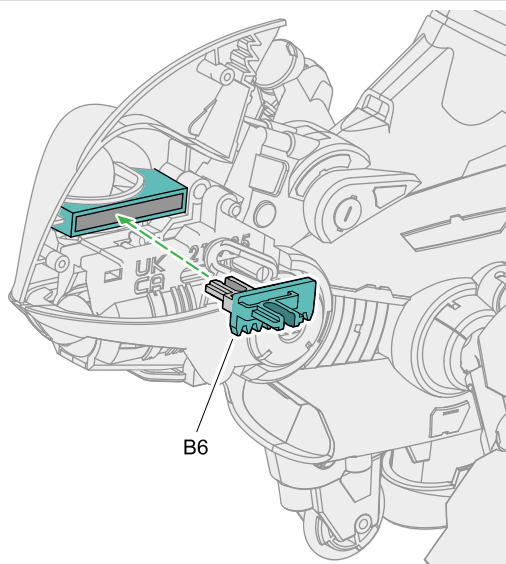


請貼上貼紙，以確保產品正常運作。
Attach the sticker to ensure proper product operation.

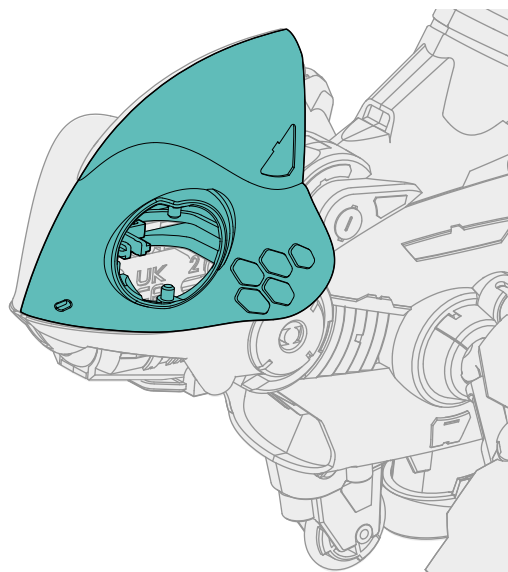
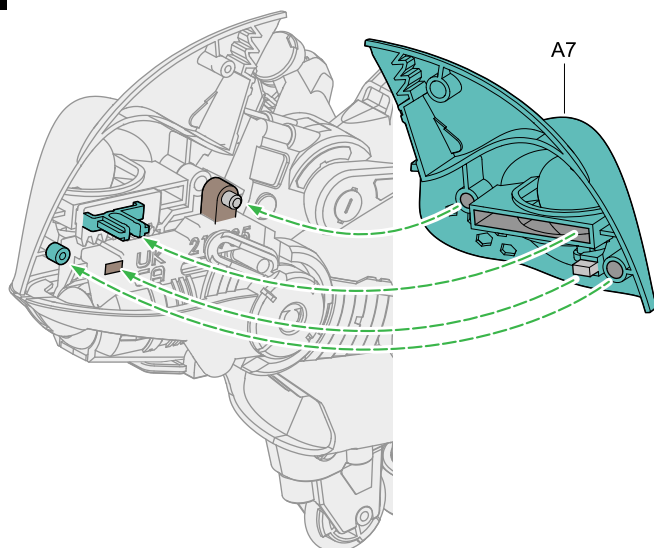
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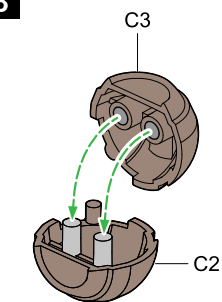
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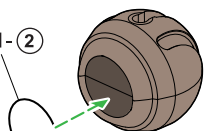
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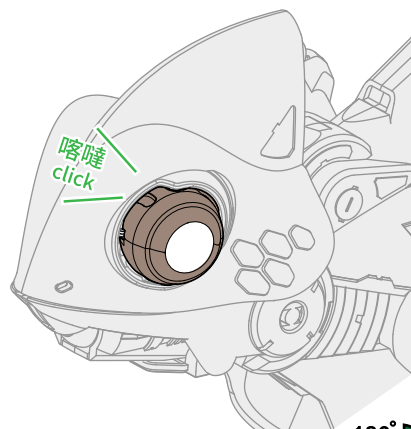
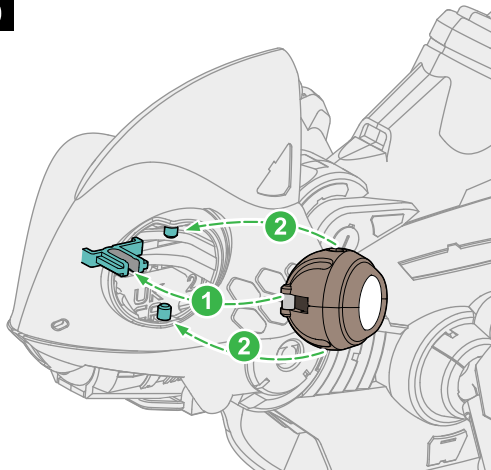


P21-②

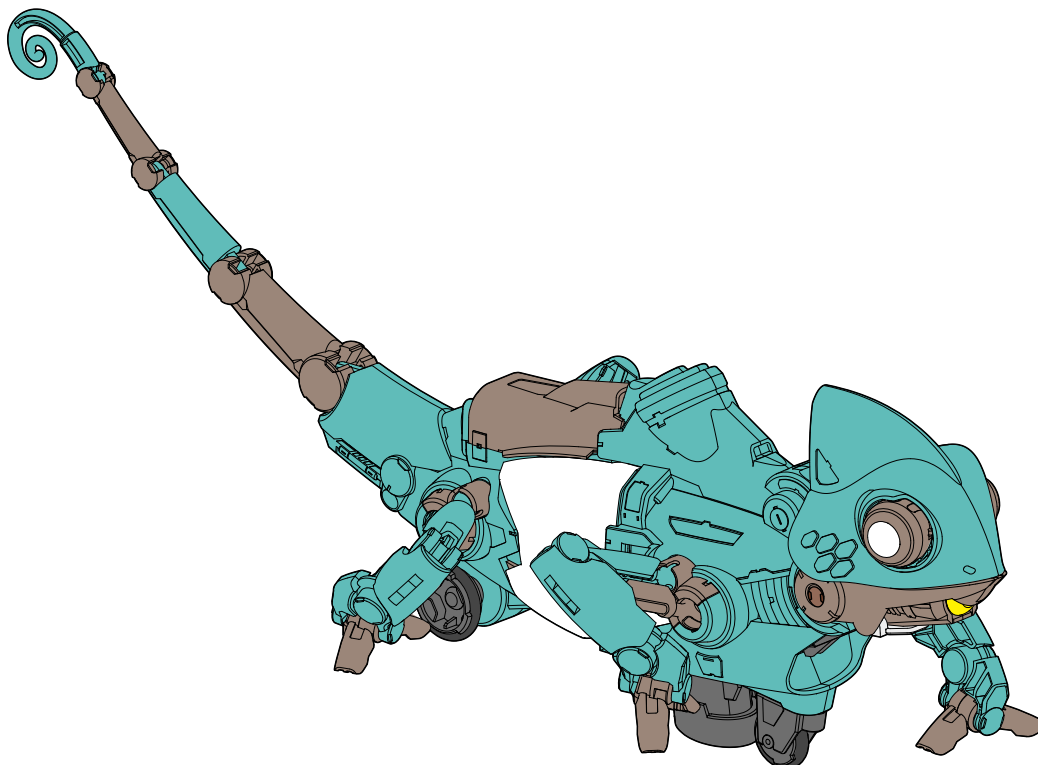
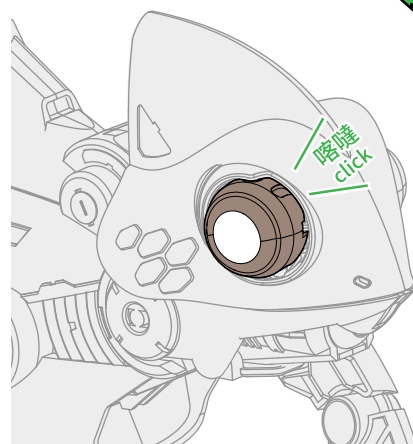
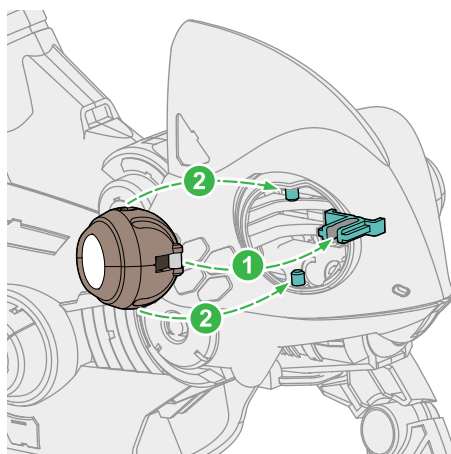


x2

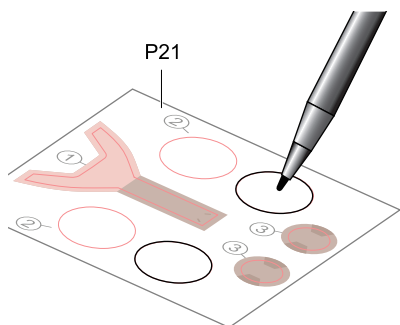
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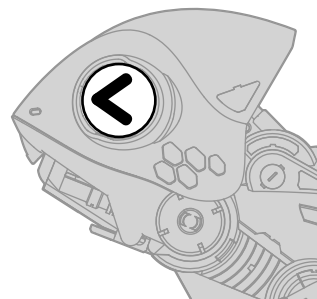
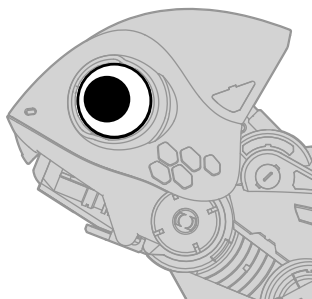
10



眼睛造型變化 Eye Design Variations



你可以設計屬於自己風格的變色龍眼睛圖案。
請使用油性筆繪製，並確保圖案完全乾燥後再
將它們裝到變色龍上。
You can design your own patterns for the
chameleon's eyes. Please use an oil-based marker
and allow the markings to dry completely before
attaching them to the chameleon.



變色龍酷迪小百科

Codee the Chameleon: Fun Facts!

變色龍酷迪的外表完美模仿真實的變色龍！
擁有酷迪，就像帶著一隻超酷炫的AI寵物～
連會變色的功能都高度還原！

Codee the Chameleon looks just like the real thing!
Having Codee is like bringing home a super cool AI pet—
even its color-changing ability is impressively realistic!

那你知道變色龍是什麼時候會變色嗎？

其實牠們是用顏色來表達情緒、吸引配偶，還能隱身保護自己不被天敵發現！

而且～酷迪可不只是會變色這麼簡單！你知道變色龍的舌頭可以長達牠身體的1.5～2倍嗎？

牠們就是用舌頭來瞬間捕食昆蟲！酷迪也具備這項技能，能「吐舌攻擊」目標！

Did you know when chameleons change color?

They actually use color to express emotions, attract mates, and even to camouflage themselves from predators!

And—Codee is way more than just a color changer! Did you know a chameleon's tongue can stretch up to 1.5 to 2 times its body length? That's how they instantly catch insects—and yes, Codee has that skill too, with a fun "tongue attack" feature to strike at targets!



變色龍生長在馬達加斯加島，但是酷迪可以無時無刻陪伴在你身邊～快帶著酷迪一起去探險世界吧！

Chameleons may come from Madagascar, but Codee can be by your side anytime, anywhere.
Get ready to explore the world together with Codee!

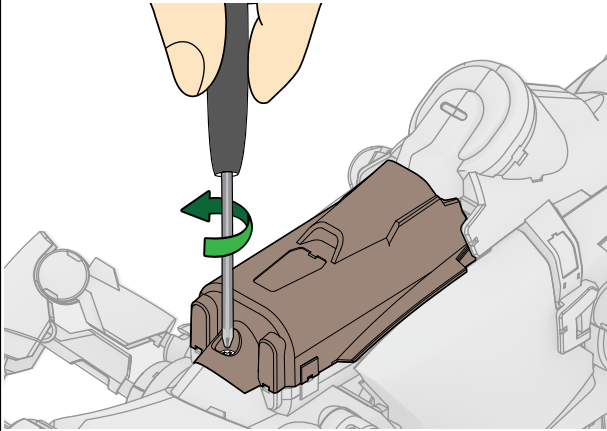


電池安裝 Battery Installation

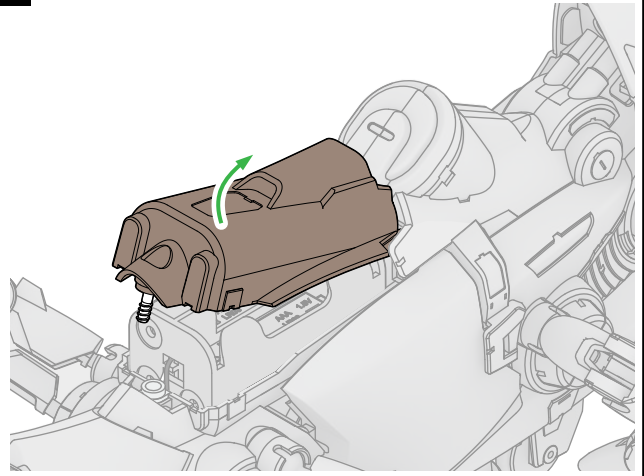
1



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.

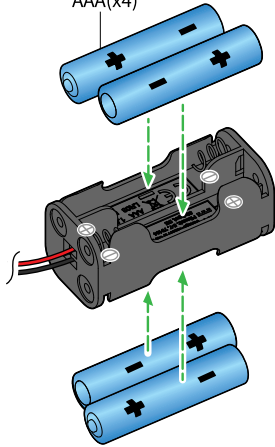


2



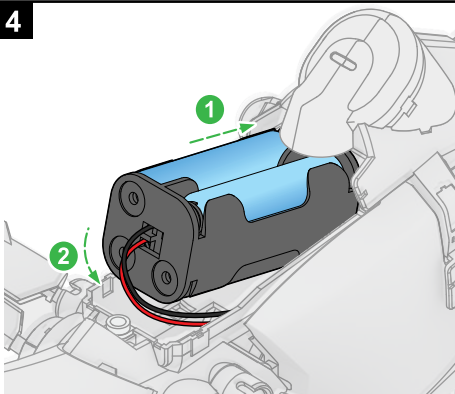
3

AAA電池4顆
AAA(x4)

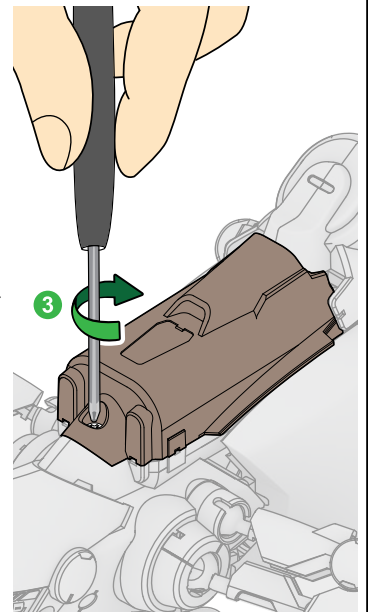
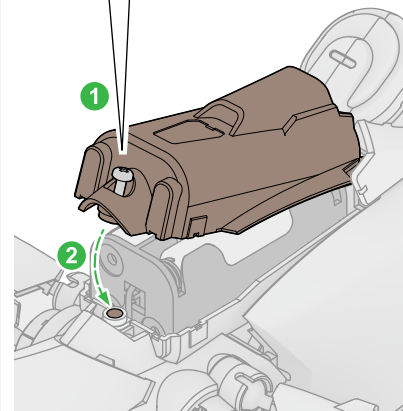
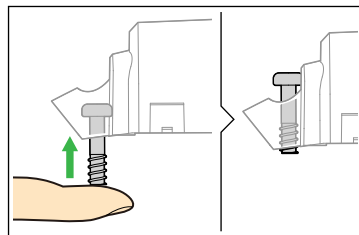


- 電池的安裝和更換應由成人操作或在成人監督下進行。
Removal and replacement of batteries should be carried out by adults or under adult supervision.
- 避免在電池盒內或電池端子之間造成短路。
Avoid short circuiting the contacts in the battery compartment or the battery terminals.
- 請將耗盡的電池從產品中移除，以避免漏液。
Remove exhausted batteries from the product 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.

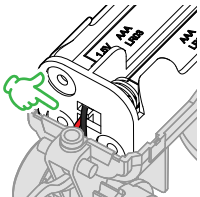
4



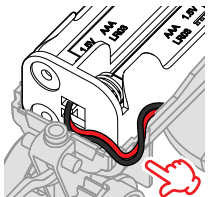
5



✓ 正確
Correct

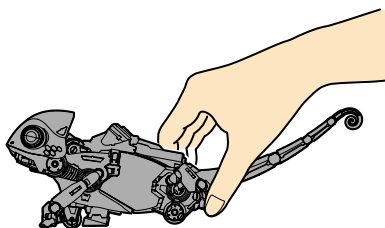


✗ 錯誤
Incorrect

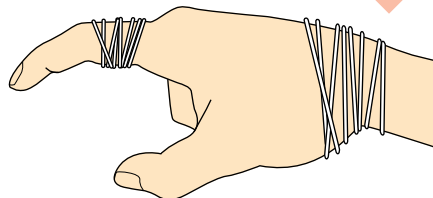


注意事項 Warning

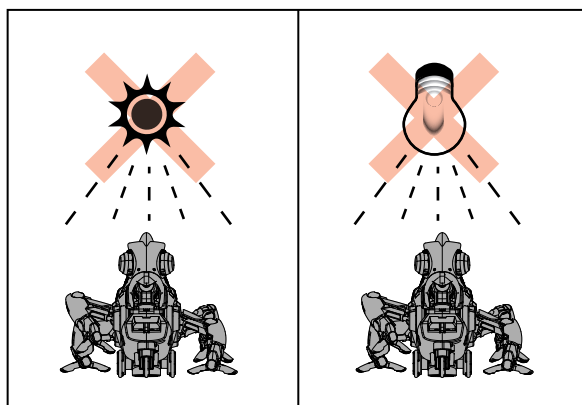
- !** 請按照圖示的位置握住酷迪，避免抓住它的腿、舌頭或尾巴。
Please hold the chameleon at the position shown in the diagram. Do not grab by the legs, tongue, or tail.



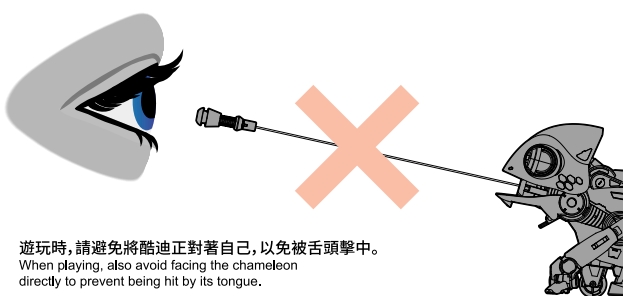
- !** 請勿將尼龍繩纏繞在手或身體上。
Do not wrap nylon string around your hands or body.



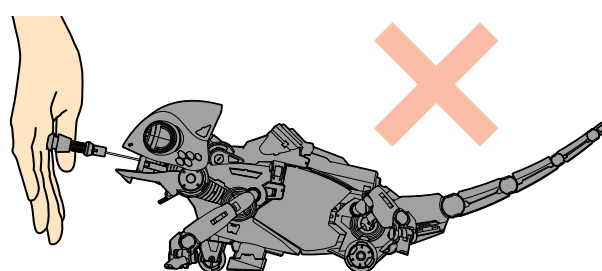
- !** 避免將產品暴露在強光下，如陽光或鹵素燈。這些光源可能會干擾感應器的正常運作，導致不正確的動作或顏色偵測不準確。
Please note that exposure to sunlight may impact the operation of the Chameleon's sensors, potentially causing certain functions to malfunction. For example, the tongue may not retract properly, or the color detection may become inaccurate.



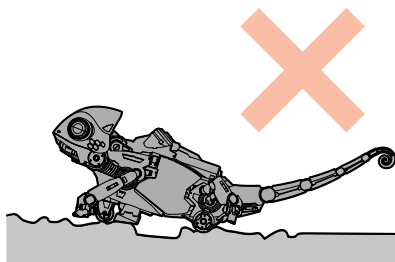
- !** 注意：請勿將舌頭對準他人的眼睛。
WARNING: Do not aim at eyes or face.



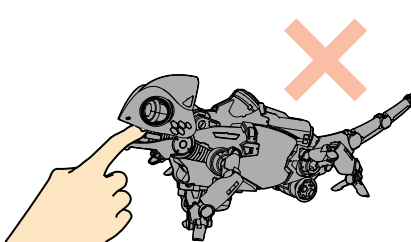
- !** 當酷迪準備伸出舌頭時，請勿在近距離阻擋它。
When the chameleon is about to stick out its tongue, do not block it at close range.



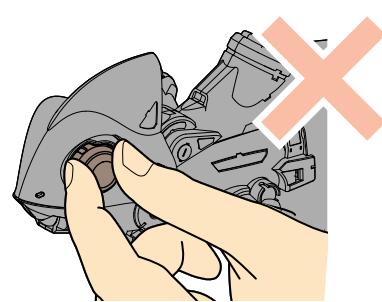
- !** 請將酷迪放在平坦的表面上進行遊玩。
Place the chameleon on a flat surface for play.



- !** 請勿將手指伸入酷迪內部，內部的旋轉機構可能會造成傷害。
Do not insert your fingers into the chameleon. The internal rotating mechanism may cause injury.



- !** 請勿強行轉動酷迪的眼睛。
Do not forcefully move the eyes.

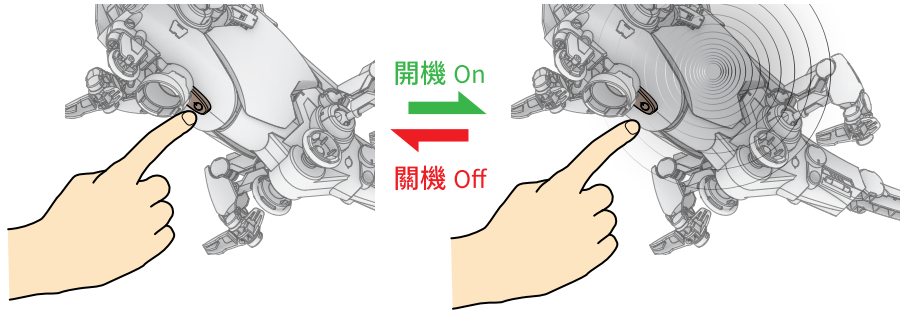


遊玩方式 How to Play

開機/關機 Power On / Off

長按按鈕，直到燈亮起/變暗，
即可開機/關機。
Long press the button untill it
lights up / dims to power on / off.

開機後，酷迪會自動亮綠燈
並且進入模式 1。
After powering on, Codee will
automatically turns green and
enter Mode 1.

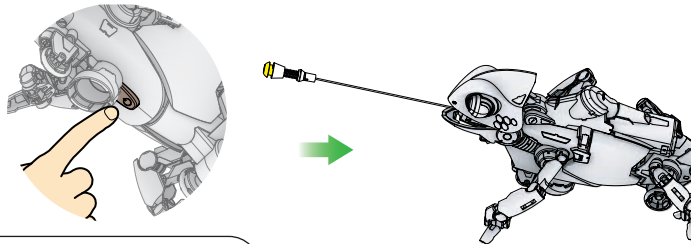


如果酷迪在兩分鐘內沒有任何操作，它會自動關機。

If no actions are taken with the chameleon within two minutes, it will automatically power off.

舌頭功能測試 Tongue Function Test

在模式 1 中，您可以按一下按鈕來測試舌頭功能。
In Mode 1, you can press the button once to test the
tongue function.



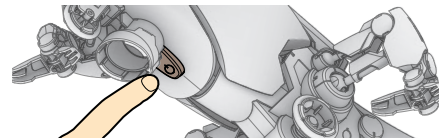
如果舌頭無法自動伸縮，請參考第38頁尋求幫助。

If the tongue does not project and retract automatically, see page 38 for help.

三種遊玩模式 Three Play Modes

按兩下按鈕可在 3 種不同模式之間切換。

Double-click the button to switch between 3 different modes.



範例 Examples:

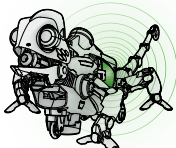
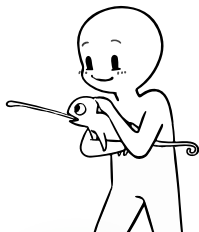
按兩下按鈕 Double-click the button → 身體亮起藍燈 The body lights up blue → 進入「模式 2」 Goes into " Mode 2 " .

再次按兩下按鈕 Double-click the button again → 身體亮起紫燈 The body lights up purple → 進入「模式 3」 Goes into mode " Mode 3 " .

再次按兩下按鈕 Double-click the button again → 身體亮起綠燈 The body lights up green → 回到「模式 1」 Goes back into mode " Mode 1 " .

1

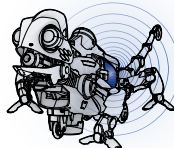
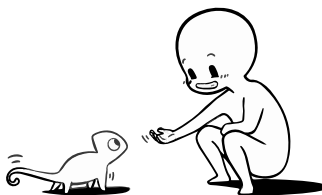
寵物模式
Pet mode



綠燈 Green

2

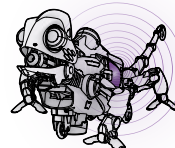
野生模式
Wild mode



藍燈 Blue

3

編程模式
Coding mode

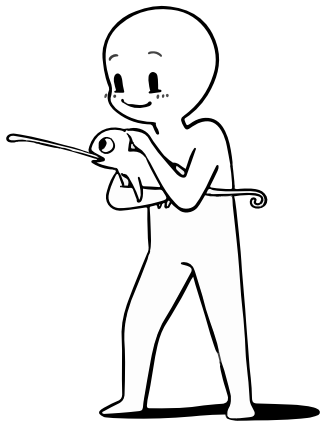


紫燈 Purple

1

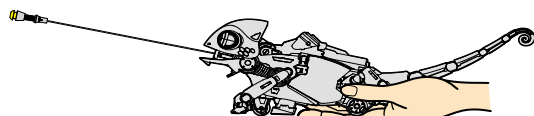
寵物模式
Pet mode

綠燈 Green



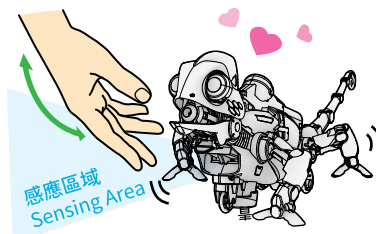
在這個模式下，酷迪會像寵物一樣，隨時準備和你一起擁抱、玩耍。

In this mode, Codee will behave as a pet, ready to be cuddled and played with you.

吐舌攻擊
Tongue Attack

你可以抱著酷迪並按下按鈕，讓它執行吐舌攻擊。

You can hold Codee and press the button to make it perform a tongue attack.

撫摸互動
Petting

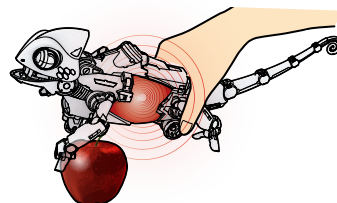
你可以輕輕撫摸酷迪的下巴，它會透過搖動身體來表達它很開心。

You can gently pet Codee's chin, and it will show its happiness by shaking its body.



確保你的手有進出感應區域。

Make sure your hand moves in and out of its sensing area.

顏色感應
Color Sensing

你可以握著酷迪，掃描周圍的任何彩色物體，讓酷迪改變為相應的顏色。

You can hold Codee and scan any colorful object around it, making Codee change to the corresponding color.



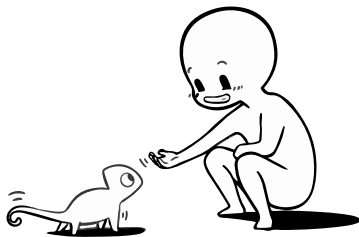
請注意，酷迪無法識別深色物體或灰色物體，像是深灰色還是淺灰色。

Please note that the chameleon cannot recognize dark-colored or gray objects, whether dark gray or light gray.

2

野生模式
Wild mode

藍燈 Blue



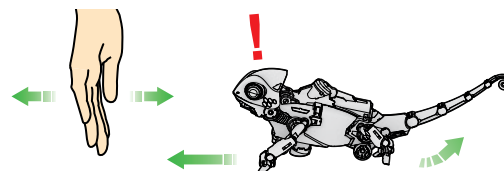
在這個模式下，酷迪可以像真實的變色龍一樣移動。

In this mode, Codee can move just like a real chameleon.



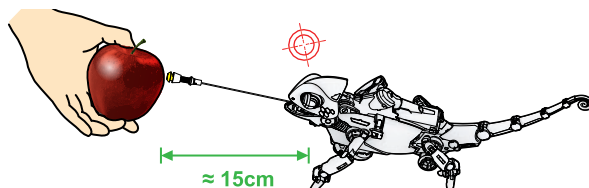
在野生模式下，酷迪會自由探索世界。請在開放空間內遊玩，以確保安全，並避免在桌面上使用，以防酷迪掉落邊緣。

In Wild Mode, Codee will roam freely to explore the world. Please play in an open space to ensure safety and avoid using it on tables to prevent Codee from falling off the edge.

跟隨模式
Walking

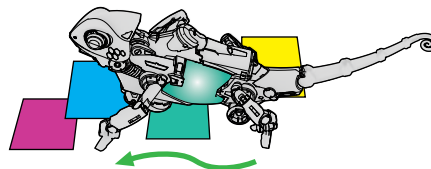
在酷迪的前方來回移動你的手或腳，它會跟著你向前或向後行走。

Move your hand or feet back and forth in front of Codee. It will walk forward and backward with you.

吐舌攻擊
Tongue Strike

在酷迪前方約 15 公分處放置一個物體，大約 3 秒，酷迪就會用舌頭攻擊該物體。

Place an object about 15 cm in front of Codee, keep it there for 3 seconds, and Codee will strike it with its tongue.

顏色模仿
Color Mimicking

引導酷迪走過一個彩色表面，它會根據經過的顏色進行變化。

Guide Codee to walk across a colorful surface, and it will change to match the colors it passes over.

3

編程模式
Coding mode

紫燈 Purple

在這個模式下，酷迪可以使用 9 張指令卡進行編程。
In this mode, Codee can be programmed with 9 instruction cards.



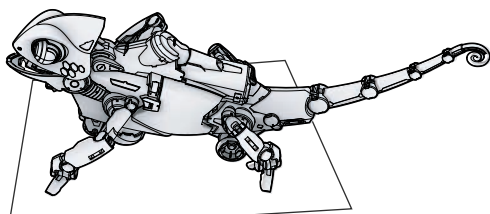
色卡指令教學

Color card instruction guide

動作 Actions		前進 Forward: 直線向前移動。 Move straight ahead.
		後退 Backward: 向後朝右後方移動。 Move backward toward the rear-right.
		出擊 Strike: 快速伸出並收回舌頭。 Quickly extend and retract the tongue.
		停留 Stay: 停止移動並觀察周圍環境。 Cease movement and observe surroundings.
		搖動 Shake: 模仿真實變色龍的動作。 Mimic the motion of a real chameleon.
情境條件 Condition		若被阻擋時 If blocked: 當變色龍前方出現障礙物時，它會執行下一條指令；如果沒有，則會重複執行上一條指令(如果有先設定好一條指令)。 When an obstacle appears in front of the chameleon, it will execute the next instruction; if not, it will repeat the previous instruction if there is one.
		結束 End: 指令只會執行一次 The instructions will be executed only once.
		重複 Loop: 指令將會重複執行。 The instructions will be executed repeatedly.
最終指令 End of Programming		結束 End: 指令只會執行一次 The instructions will be executed only once.
		重複 Loop: 指令將會重複執行。 The instructions will be executed repeatedly.
消除 Erase		消除 Erase: 消除所有已輸入的指令。 Erase all entered instructions.

► 如何編程 How to Program

步驟一 / Step 1



白紙 White paper



準備一張白紙或一個白色平面。
Prepare a white paper or a white surface.

將變色龍放置在白色平台上。
Place the chameleon on a white platform.

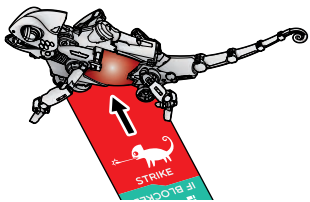


酷迪的身體會顯示為白色，這樣你就可以開始輸入指令了。
Codee's body appears white and you can start entering instructions.



如果不是白色表面，酷迪會搖擺提示。
If it's not a white surface, Codee will keep shaking.

步驟二 / Step 2



可掃描多達 32 條指令來進行程式編程!
You can scan up to 32 instructions to program!

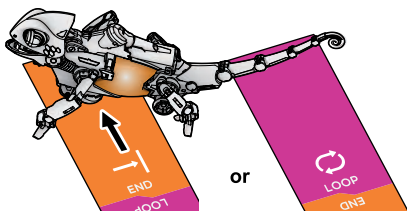
按照你設計的順序掃描對應的色卡。
Scan the corresponding color cards in the sequence you designed.

每次酷迪會顯示對應的顏色並閃爍兩次，表示掃描成功。
Each time, Codee will display the corresponding color and flashes twice to indicate successful scanning.



移除卡片後，當酷迪顯示為白色時，你可以掃描下一張卡片。
Remove the card. After Codee appears white, you can scan the next card.

步驟三 / Step 3



結束編程

End programming.

掃描標註為 [END] 或 [LOOP] 的色卡來完成編程。
Scan the color card marked with [END] or [LOOP] to complete the programming.

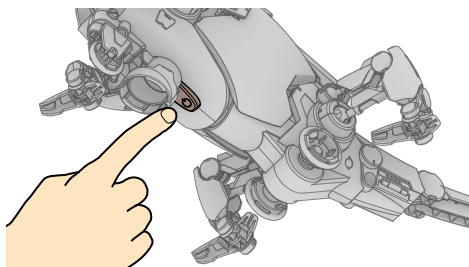


酷迪會顯示對應的顏色並閃爍兩次。
Codee will display the corresponding color and shake twice.



編程完成。
Programming completed.

步驟四 / Step 4



按下按鈕以開始。
Press the button to start.

按一下按鈕，即可開始執行指令。
Single-click the button, then begin executing instructions.



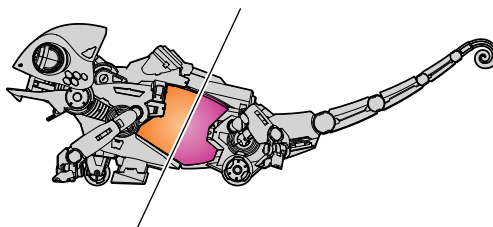
你可以按一下按鈕來停止執行，然後再按一下來重新啟動。
You can single-click the button to stop the execution, and click again to restart.



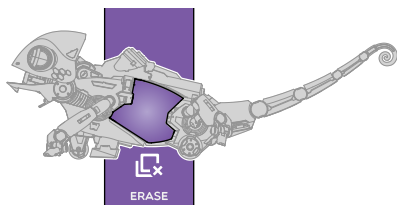
在執行過程中無法掃描卡片。
No cards can be scanned during the execution.



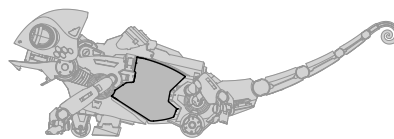
在模式 3 中，Codee 的身體會顯示最終編程的色卡（橙色或粉色）。
In Mode 3, Codee's body will display the color of the last programmed card if there is one, either orange or hot pink.



► 如何消除程式 How to Erase the Code?



掃描「消除」指令的顏色卡，並等待它閃爍紫光兩次。
Scan the 'Erase' instruction color card and wait for it to flash purple twice.



身體會逐漸變白，並刪除所有先前的指令。
The body gradually turns dims, erasing all previous instructions.



如果不打算刪除任何東西，請避免掃描紫色物體，否則會觸發消除程序。
Avoid scanning purple objects if you do not intend to erase anything. It may also trigger the erasing process.

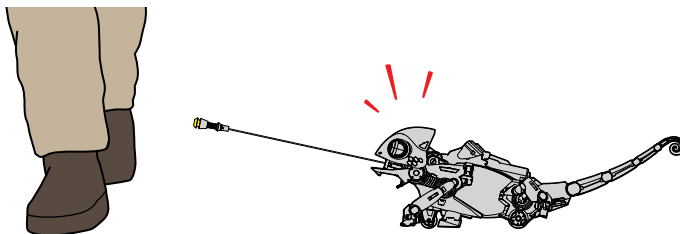
► 編程示範 Programming example

範例一 / ex.1

陷阱模式 Trap



將變色龍放置在角落。
當有人經過時，它會伸出舌頭攻擊。
Place the chameleon in a corner.
It will tongue-strike when someone passes by.

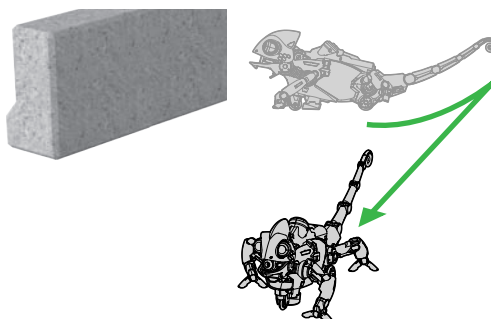


範例二 / ex.2

避障模式 Avoidance



向前移動，當偵測到障礙物時，向後移動並轉身避開。
Move forward and turn back to avoid an obstacle when detected.

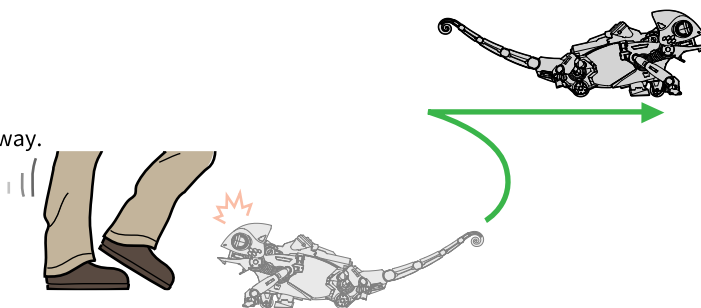


範例三 / ex.3

逃跑模式 Escape



保持靜止，但對威脅做出快速反應，移動避開。
Stay still, but react quickly to threats by moving away.

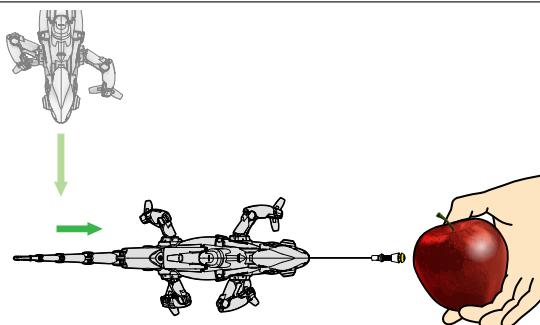


範例四 / ex.4

狩獵模式 Hunter

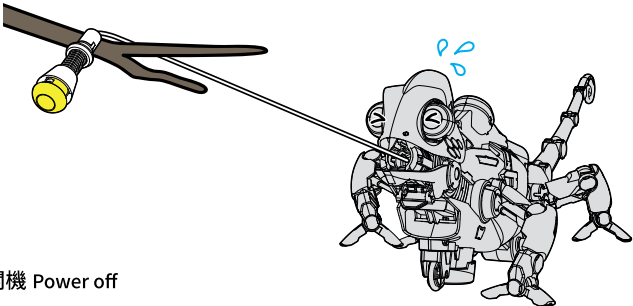
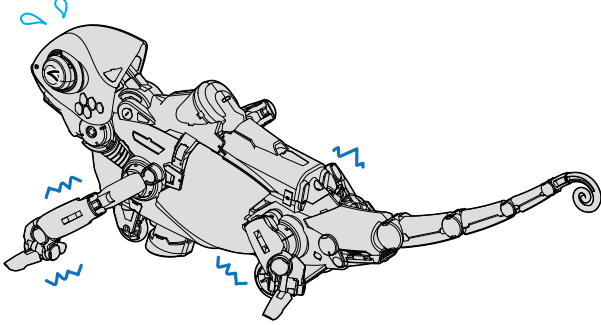
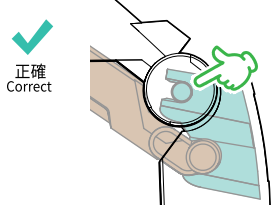
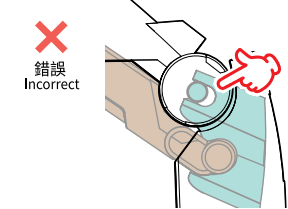
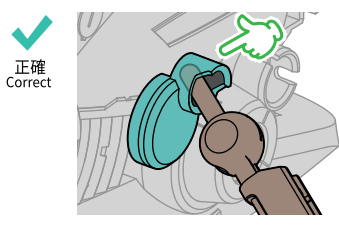
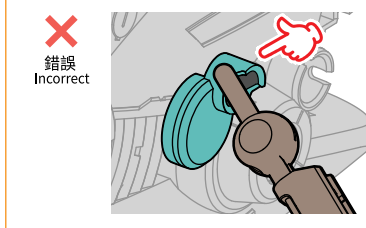


移動到指定位置，慢慢向前移動，然後執行舌頭攻擊。
Move to a designated spot, amble forward,
and then perform a tongue attack.



故障排除 Trouble Shooting

問題 Question	回答 Answer
A 如果酷迪無法開機，且長按按鈕後沒有任何燈光，該怎麼辦？ What if the chameleon won't power on, and there is no lights after long-pressing the button?	1. 檢查電池的正負極是否安裝正確。 Check if the battery's positive and negative ends are installed correctly. 2. 查看第6頁，步驟5-6，確保電路板接線正確連接。 Check page 6, steps 5-6, to ensure the PCB wiring is properly connected.
B 如果馬達在開機前/後無法運作，該怎麼辦？ What if the motor doesn't work after powering on?	查看第6頁，步驟5-6，確保電路板接線正確連接。 Check page 6, steps 5-6, to ensure the PCB wiring is properly connected.
C 如果舌頭無法正常彈出，該怎麼辦？ What if the tongue doesn't eject properly?	1. 切換至模式 1，並按照第 33 頁的舌頭功能測試進行操作。 Switch to Mode 1, and follow the tongue function test on page 33. 2. 如果舌頭仍未彈出，請關閉機器電源，並按照以下說明操作。 If the tongue is still not ejected, please power off the robot and follow the instruction below. a. 請檢查第 27 至 29 頁的頭部組裝，第 6、9、10 步驟，並確保組裝正確。 Check the Head Assembly on pages 27-29, steps 6, 9, 10, and ensure the assembly is correct. b. 檢查第 27 至 29 頁的頭部組裝，確保前齒輪箱完全密封，沒有任何間隙。 Check the Head Assembly on pages 27-29, ensure the front gear box is completely sealed without any gaps. a. 重新啟動並按照第 33 頁的舌頭功能測試進行操作。 Restart and follow the tongue function test on page 33. 3. 如果變色龍在執行上述解決方案後仍無法伸出舌頭，請按照以下說明操作。 If the chameleon still doesn't stick out its tongue after executing the solutions above, please follow the instruction below. a. 請檢查第 10 頁的步驟 19，確保毛邊已被修剪乾淨。 Check page 10, step 19, ensure the burrs were cut off. b. 請檢查第 9 頁的步驟 14，避免螺絲鎖得過緊，以防變形。 Check page 9, step 14, avoid over-tightening screw to prevent deformation. c. 請檢查第 11 頁的步驟 22 以及第 14 頁的步驟 33，然後重新啟動並按照第 33 頁的舌頭功能測試進行操作。 Check page 11, step 22, and page 14, step 33, then restart and follow the tongue function test on page 33.

問題 Question	回答 Answer
D 如果舌頭無法正常收回, 該怎麼辦? What if the tongue does not retract properly?	 1. 關機 Power off 2. 調整繩子, 確保沒有糾纏。 Adjust the cotton string, making sure it's not tangled. 3. 檢查第27-29頁的頭部組裝, 確保組裝正確, 然後重新啟動並按照第33頁的舌頭功能測試操作。 Check the Head Assembly on pages 27-29 to ensure correct assembly, then restart and follow the tongue function test on page 33.
E 如果酷迪走路不平穩或發出喀噠聲, 該怎麼辦? What if the chameleon walks unevenly or makes clicking noises?	 檢查關節處的 C 型夾是否正確安裝。請參閱第24-25頁。 Check if the C-clip in the joint is properly installed. Please refer to pages 24-25.  ✓ 正確 Correct  ✗ 錯誤 Incorrect 請檢查大腿關節是否正確組裝。 Check if the thigh joint is assembled correctly. 請參考第16頁的步驟 38-39, 以及第22-23頁的步驟 15-17。 Please refer to page 16, steps 38-39, and pages 22-23, steps 15-17.  ✓ 正確 Correct  ✗ 錯誤 Incorrect
F 如果變色龍的前腿無法移動, 該怎麼辦? What if the chameleon's front legs aren't moving?	請檢查第8頁的步驟 10、第 13 頁的步驟 29~30, 以及第20頁的步驟 7~8, 以確保零件正確連接。 Check page 8, step 10, and page 13, step 29~30, and page 20, step 7~8, to ensure the parts are properly connected.

猜你也會喜歡——



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