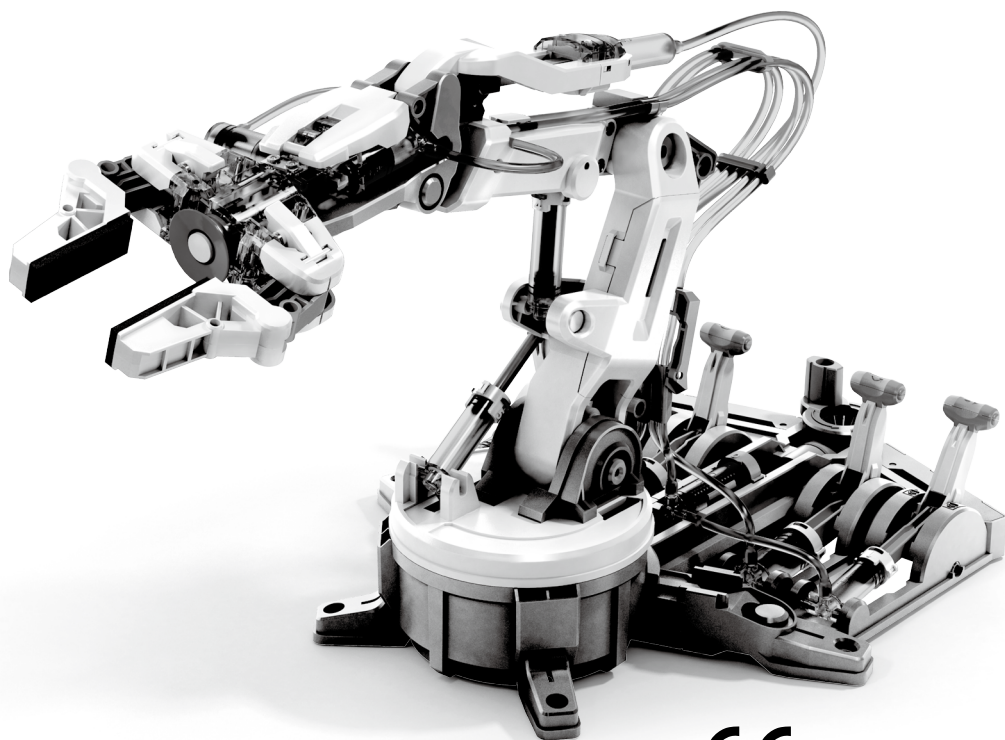


GE-632

Pro'sKit®

液壓機器手臂

Hydraulic Robot Arm



CE

Assembly & Instruction **Manual**

組裝說明手冊

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液壓機器手臂 Hydraulic Robot Arm

產品介紹 Product Introduction

歡迎購買實工GE-632液壓機器手臂。這是一款使用液壓方式操作的玩具，六軸設計液壓手臂可做出多種動作：前端夾具可進行開闔動作，最大開口約4.6cm，可旋轉180°，手腕可上下移動98°，肘部上下移動44°，肩部上下移動45°，底座可左右旋轉270°，手臂可上舉的最大高度約42cm，水平伸展約32cm，可夾舉重量為50g。卸下夾具後，還可使用吸盤裝置，吸盤設計不受物體大小限制，可吸取面積更大的物體。本產品由229個零件組成，組裝說明沒有多餘的文字敘述，詳細的圖示就可輕鬆組裝，同時可了解液壓原理，組裝後可實際操作應用，透過操縱桿使六軸動作配合無間，訓練手眼協調。不須電池、不須馬達、水就可驅動一切，歡迎工程系列愛好者挑戰本進階模型。推薦10歲以上兒童可嘗試獨立組裝，父母在旁陪伴，兒童可從中得到自我滿足的成就感，同時快樂的享受親子共遊的樂趣。

With Hydraulic Arm Edge, command six axes of varied movements: the gripper to open and close up to 1.89 inches, wrist rotation of 180 degrees, wrist mobility of 98 degrees, elbow range of 44 degrees, base rotation of 270 degrees, and shoulder motion of 45 degrees. With a vertical reach of 16.35 inches, horizontal reach of 12.42 inches, and lifting capacity of 50g, your robotic friend is ready for your genius to erupt. With the removal of the gripper, you can activate the suction apparatus. This feature enables the user to elevate objects with a larger surface area (like a small mobile phone). Another prodigious attribution is a braking system that is integrated in the lever controllers to execute all commands accurately. WOW!

How does this equate to fun? Your children will have total command and visual manipulation using the science principles of a Hydraulic system and its application. Easy to follow instructions with detailed graphic illustrations pave the way for successful and satisfying kit building. Compliment your engineering, math, science, and technology learning strategy. No battery or motor required. It is powered by water; thus, the "Hydraulic" significance and how it manipulates axes movement via lever controllers. Hydraulic Arm Edge is recommended for ages 10 and up, but with its 229 assembly parts, it will challenge the beginner engineering enthusiasts.

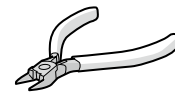


警告

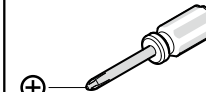
Warning

- 1.本玩具內含小物件，請勿讓三歲以下孩童取得，以免放入口中造成窒息。
Choking hazard - Small parts. Not for children under 3 years.
- 2.兒童使用剪切工具時，請家長指導使用方式，並請在家長監督下使用，以免發生意外。
Adult supervision is recommended when children use scissors.
- 3.為避免嬰兒或兒童產生窒息的危險，請於拆卸後立即將塑膠袋銷毀或遠離嬰兒及兒童。
To avoid danger of suffocation, keep the plastic bag away from babies and children.

自備工具如下 Tools You May Need



斜口鉗 Diagonal Cutter



十字起子 Screwdriver



剪刀 Scissors



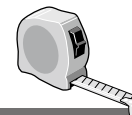
面紙 Tissue Paper



杯子和水 Cup & Water



油性麥克筆(細字)Marker Pen (Fine)



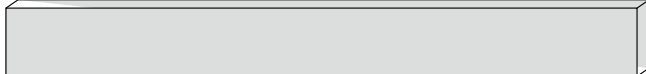
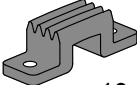
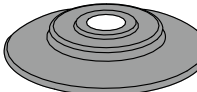
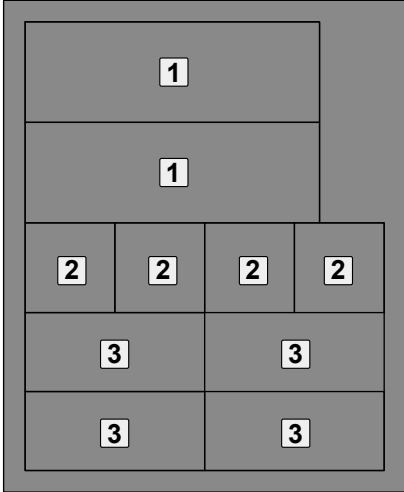
or

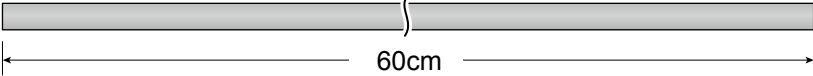


捲尺或尺 Tape Measure or Ruler

零件清單 Mechanical Parts List

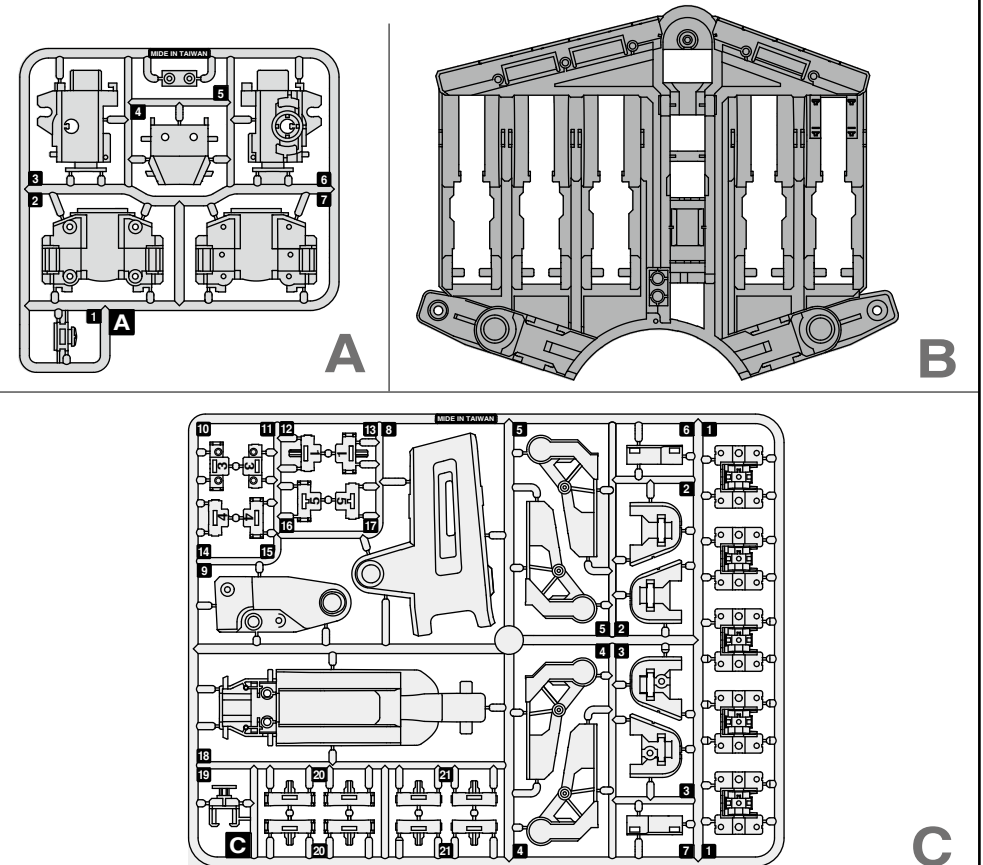
! 部分零件含有銳利的邊緣及尖角 Product contains functional edges and sharp points.

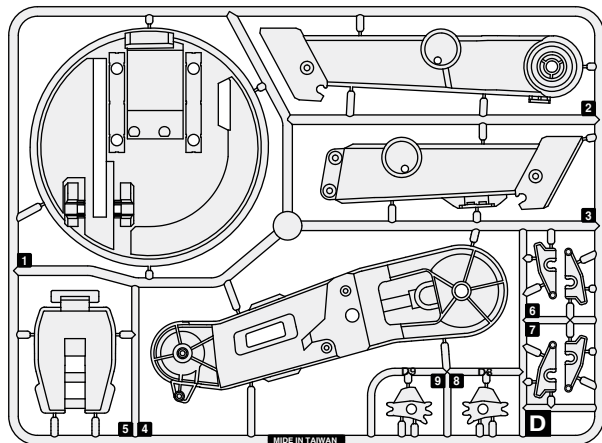
P1 華司螺絲(短) Tapping Screw(Short)  9 pcs	P3 鐵塊(短) Iron Bar (Short)  1 pc		
P2 自攻螺絲(長) Tapping Screw(Long)  28 pcs	P4 鐵塊(長) Iron Bar (Long)  1 pc		
P5 墊片 Brake Pad  10 pcs	P6 活塞帽(小) Cap (Small)  5 pcs	P7 活塞帽(大) Cap (Big)  6 pcs	P8 吸盤 Suction Cup  1 pc
P9 泡棉 Sponge  1 pc		P10 彈簧(小) Spring(Smallest)  5 pcs	P11 彈簧(短) Spring(Short)  1 pc
		P12 彈簧(中) Spring(Medium)  1 pc	P13 彈簧(長) Spring(Long)  1 pc

P14 軟管 Soft Tube  60cm 5 pcs
P15 油包 Oil Bag   安裝軟管時請勿碰觸到油 Do not touch the oil while fitting the soft tube. 1 pc

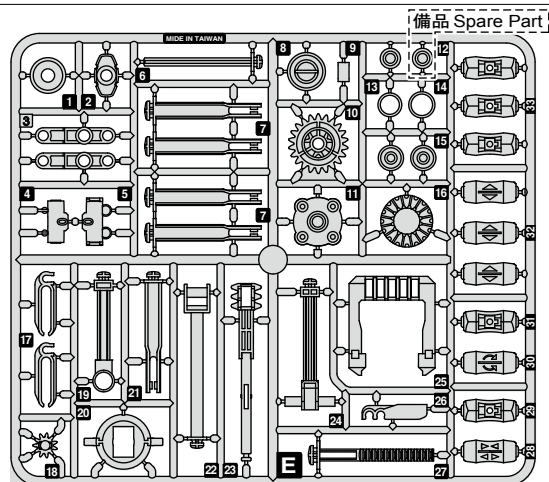
塑膠模型零件 Plastic Parts

! 請依照組裝步驟將所需的零件剪下，事先全數剪下會在組裝時造成混淆
Cut the plastic parts when they are required. Do not cut them in advance.

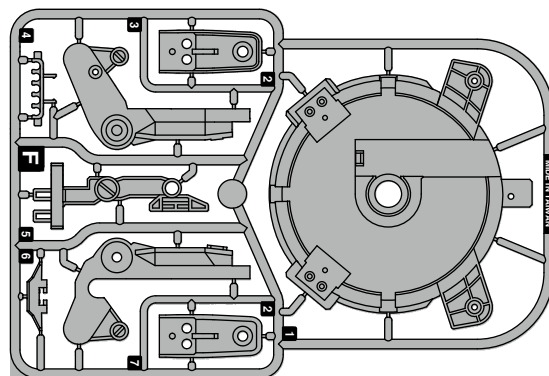




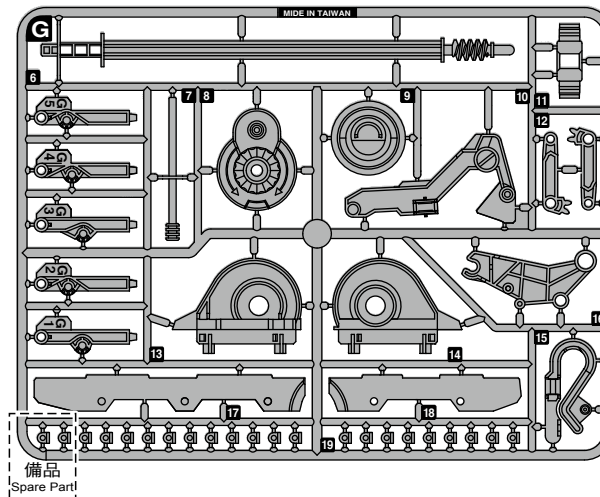
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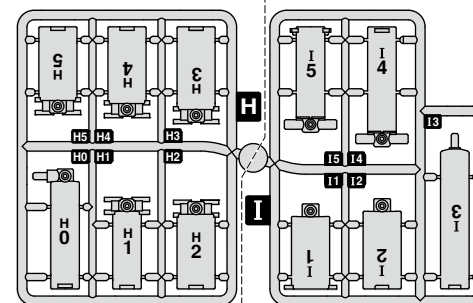
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F



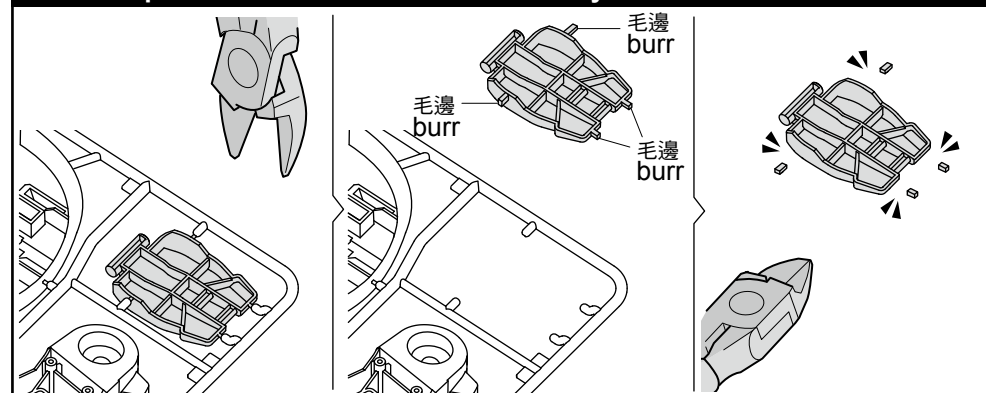
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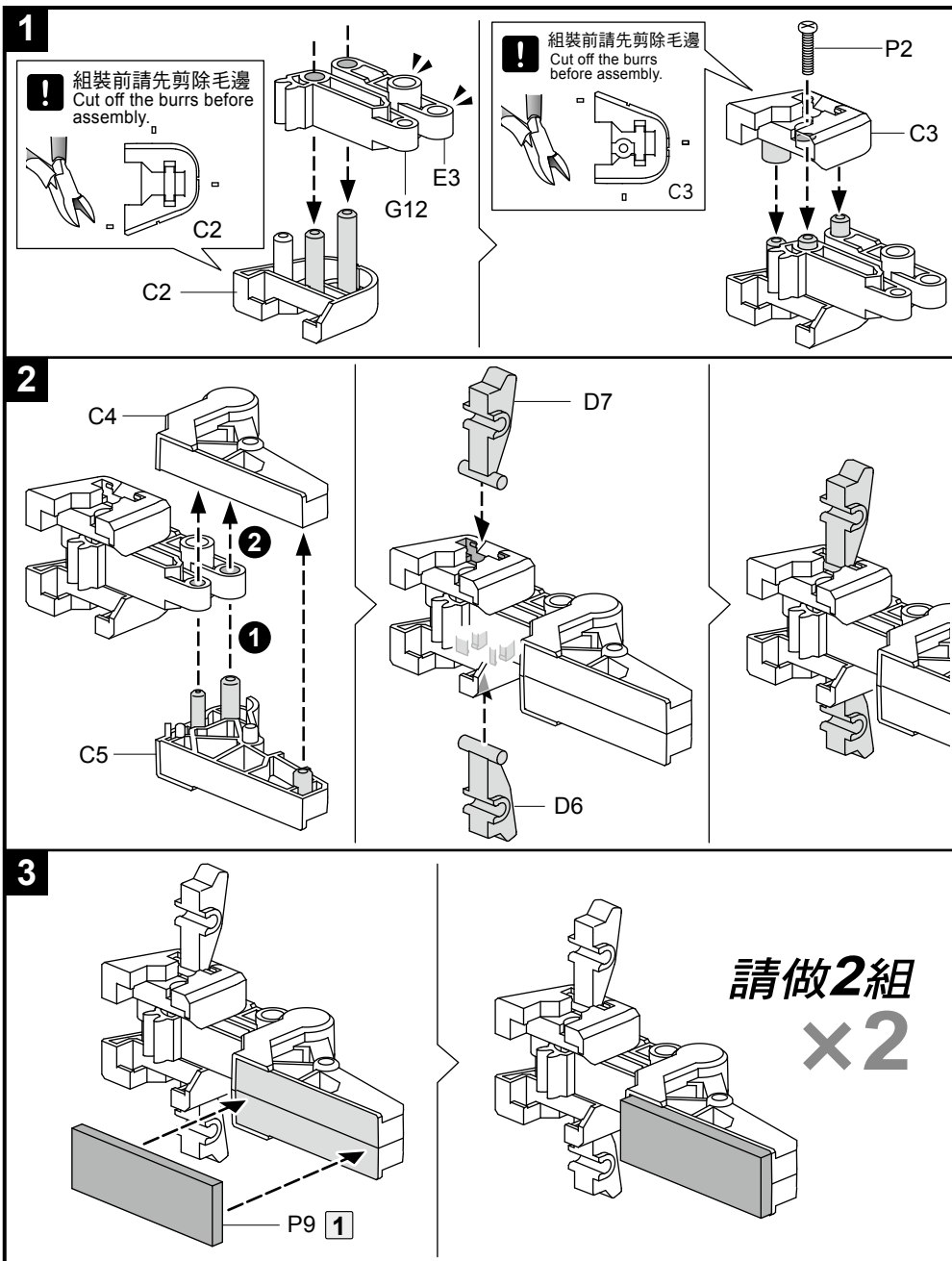
H

I

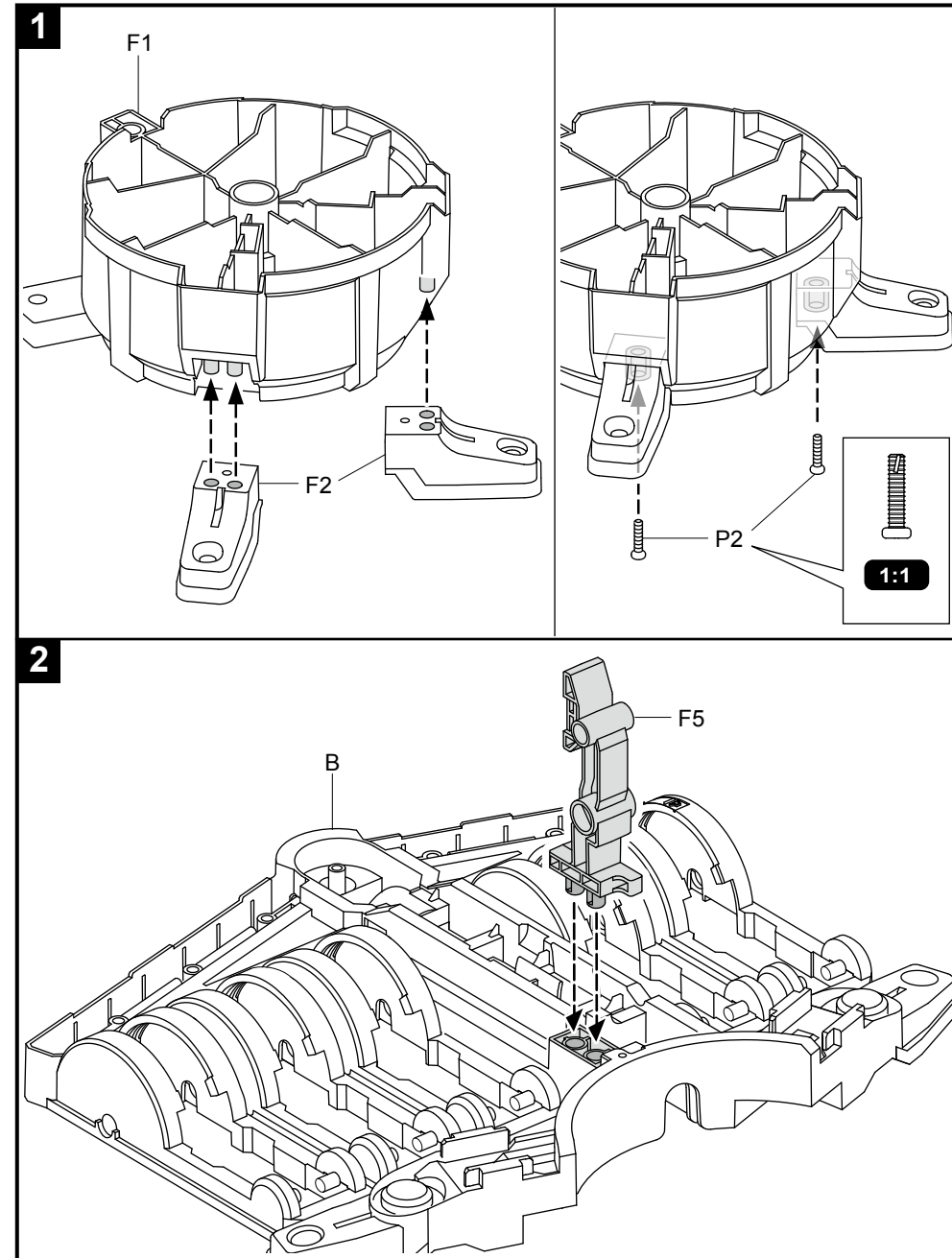
小技巧提醒：零件剪下時請將毛邊剪切乾淨，以免組裝時產生間隙
Tip: Cut off the burrs before assembly

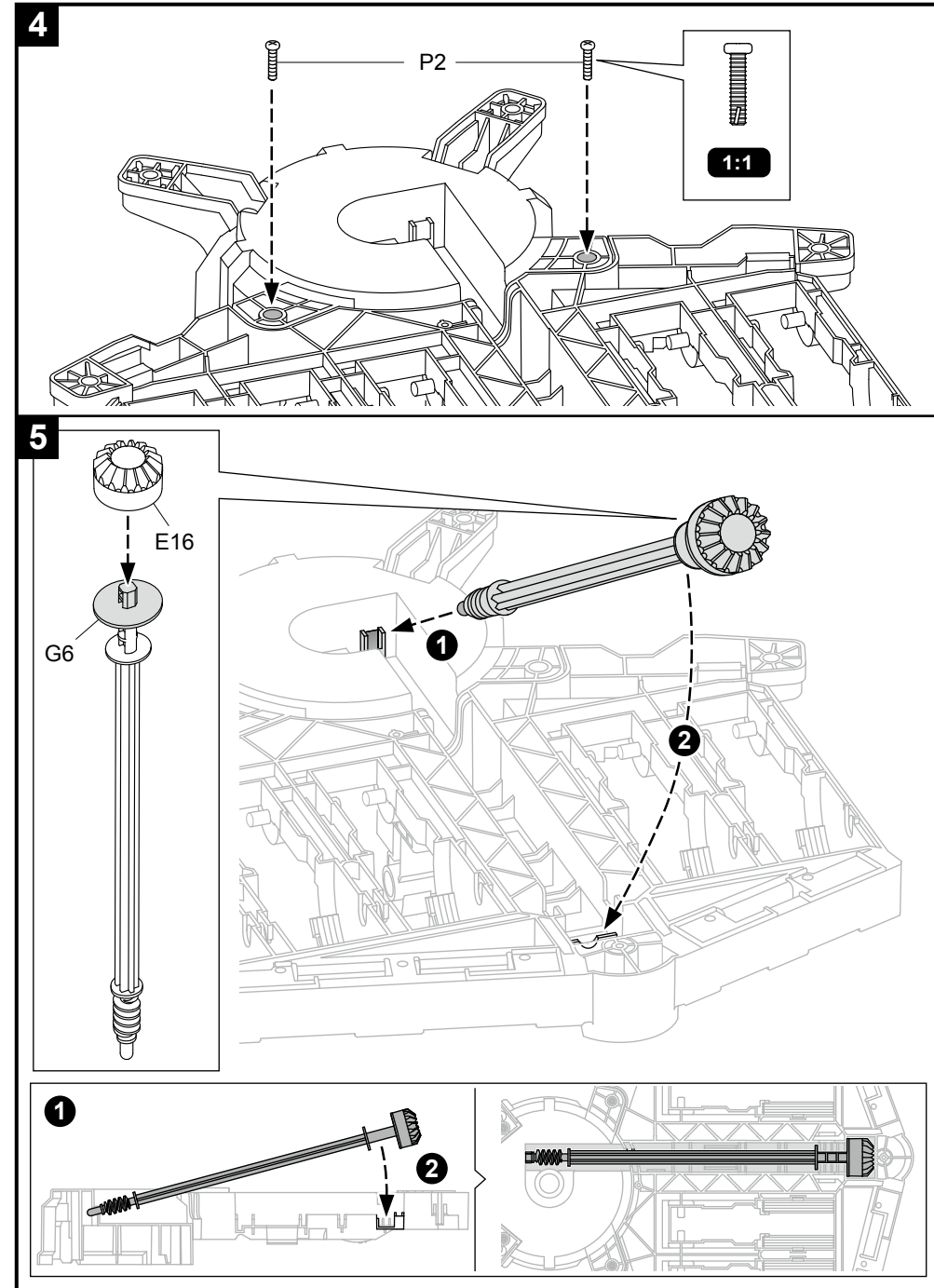
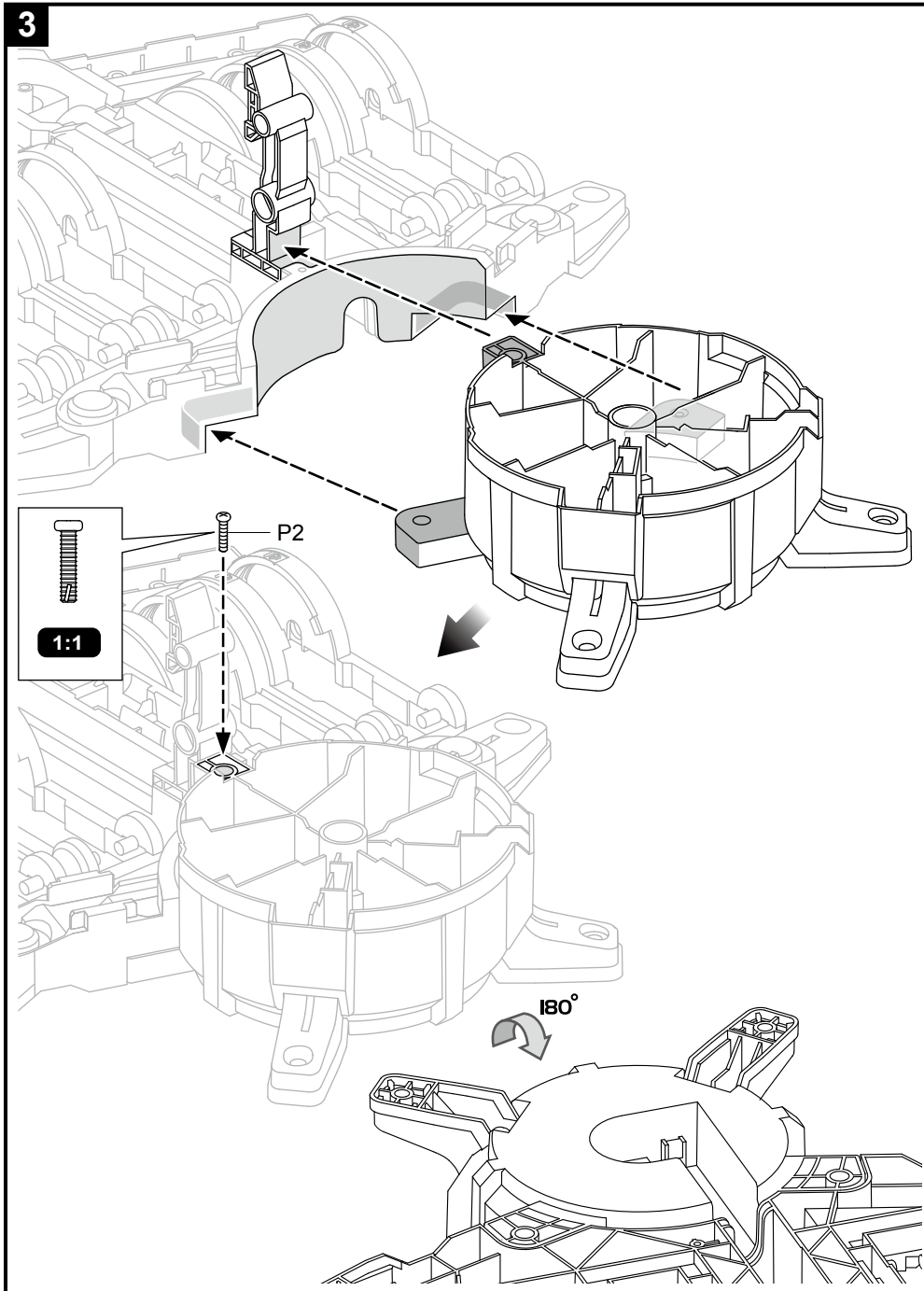


夾頭組裝 Gripper Unit Assembly

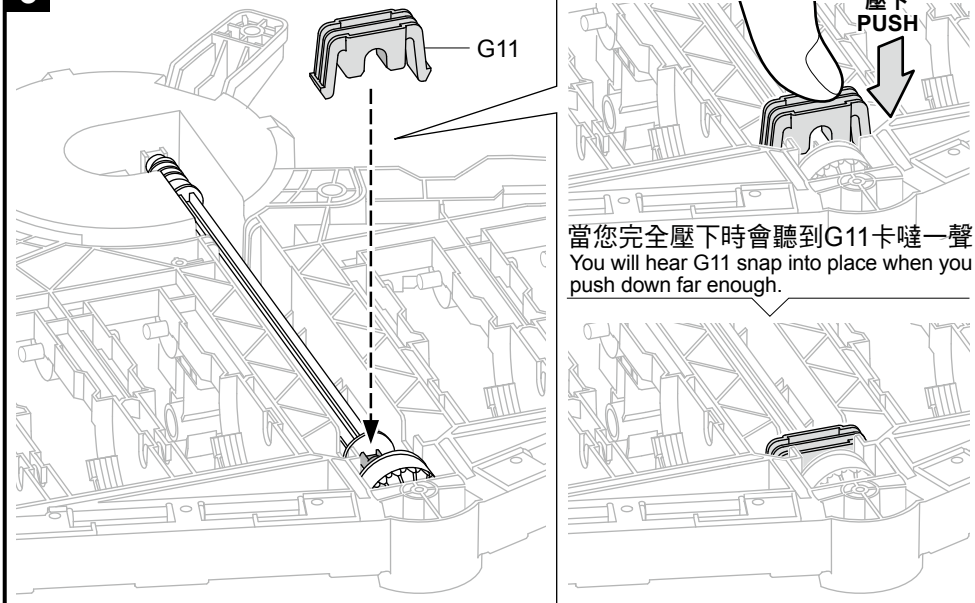


控制盤組裝 Stand & Control Base Assembly

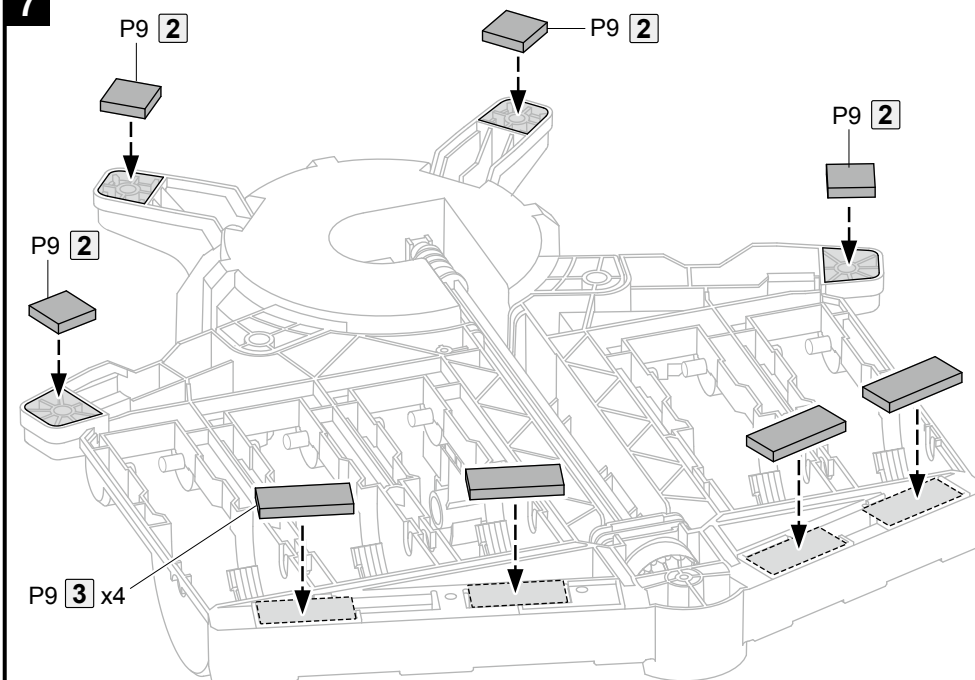




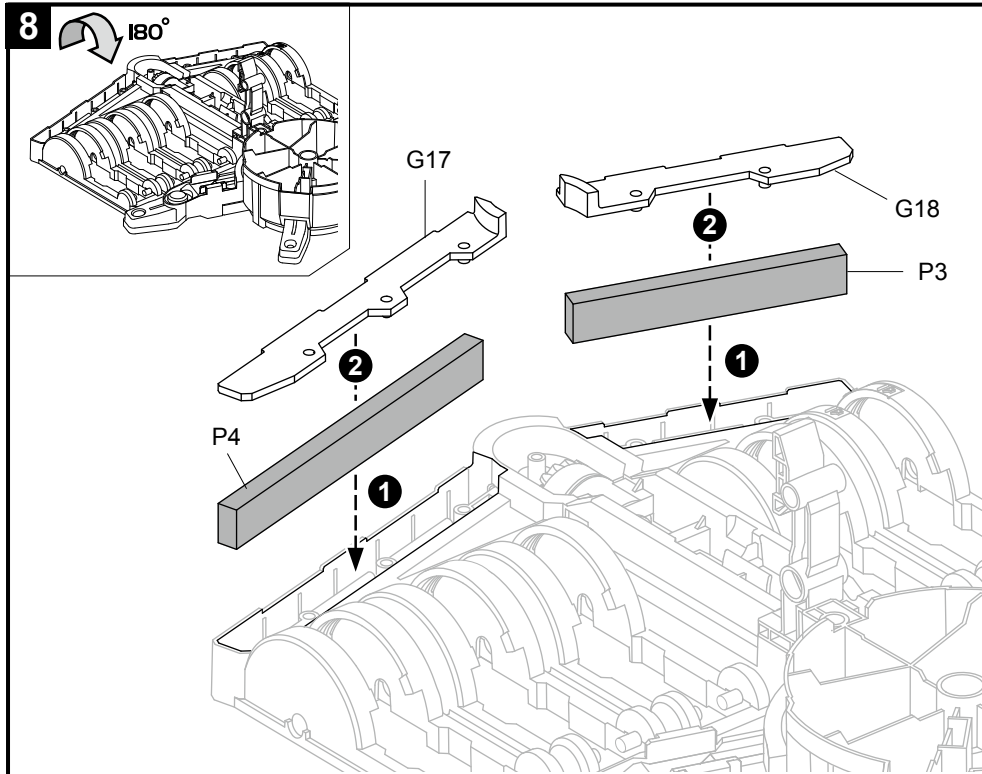
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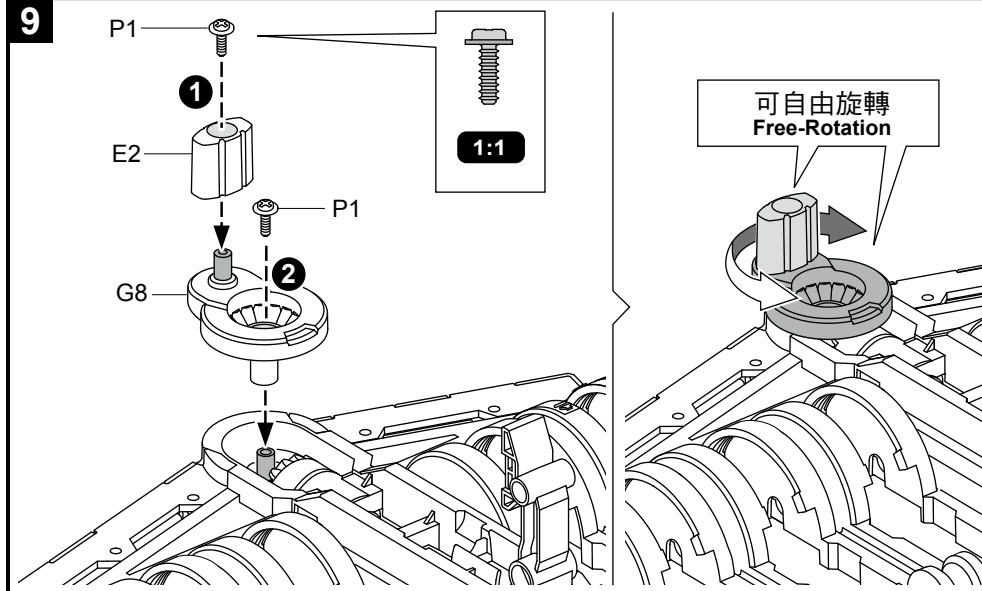
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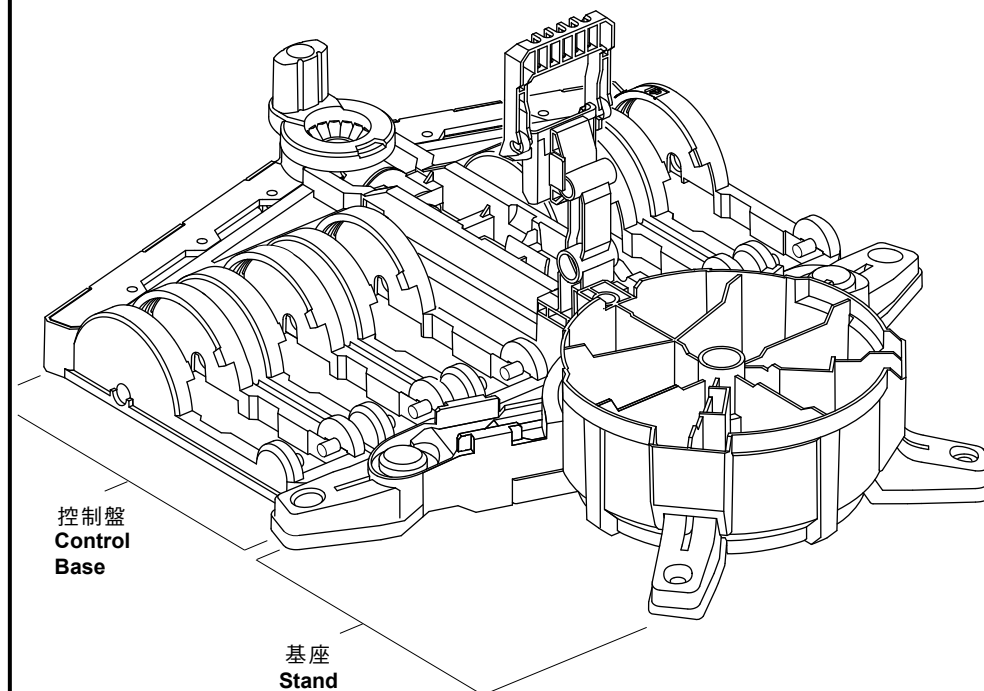
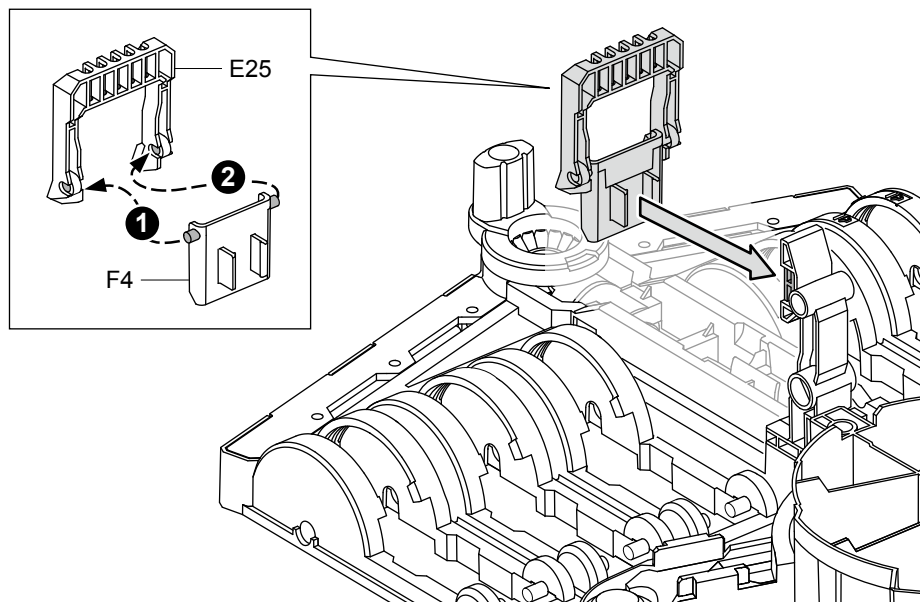
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9

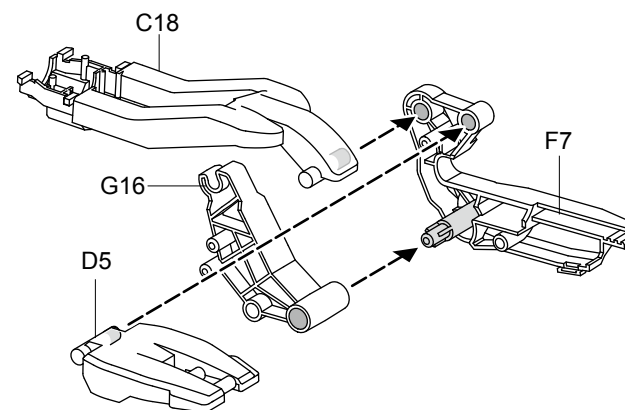


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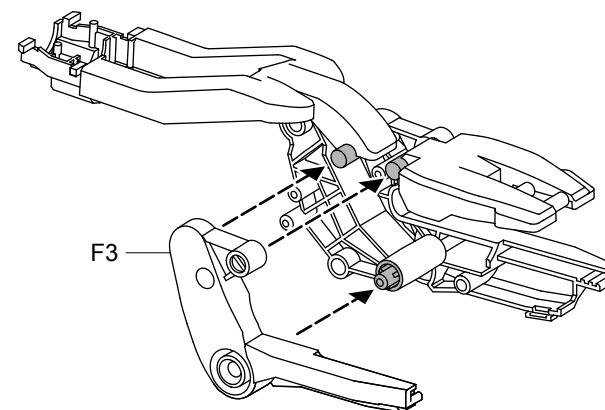


手臂組裝 Main Body Assembly

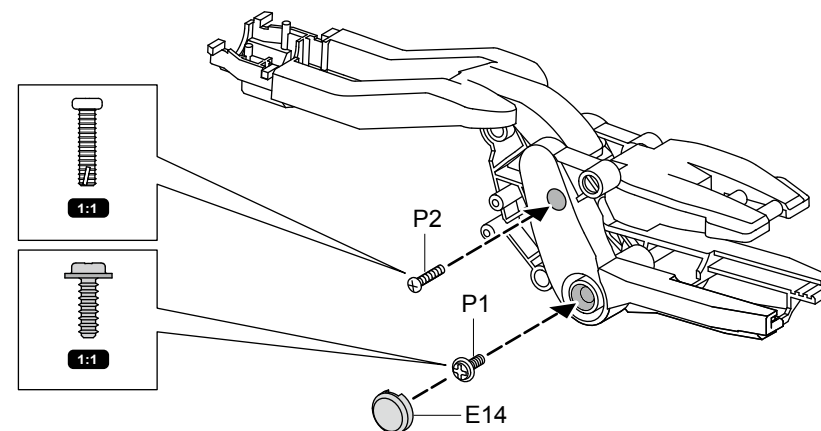
1

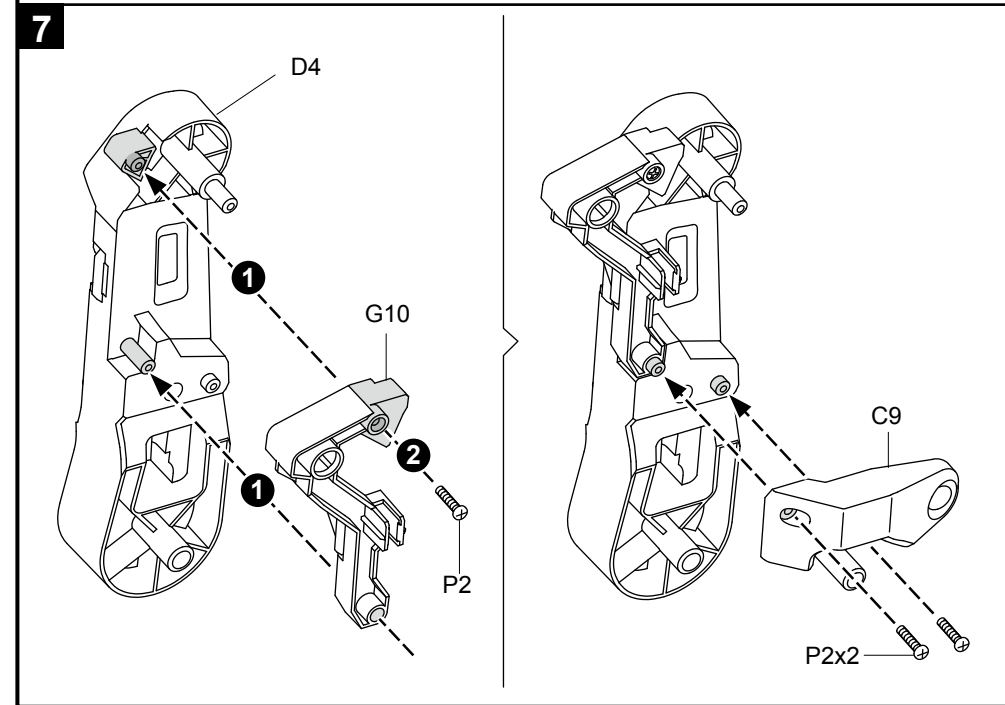
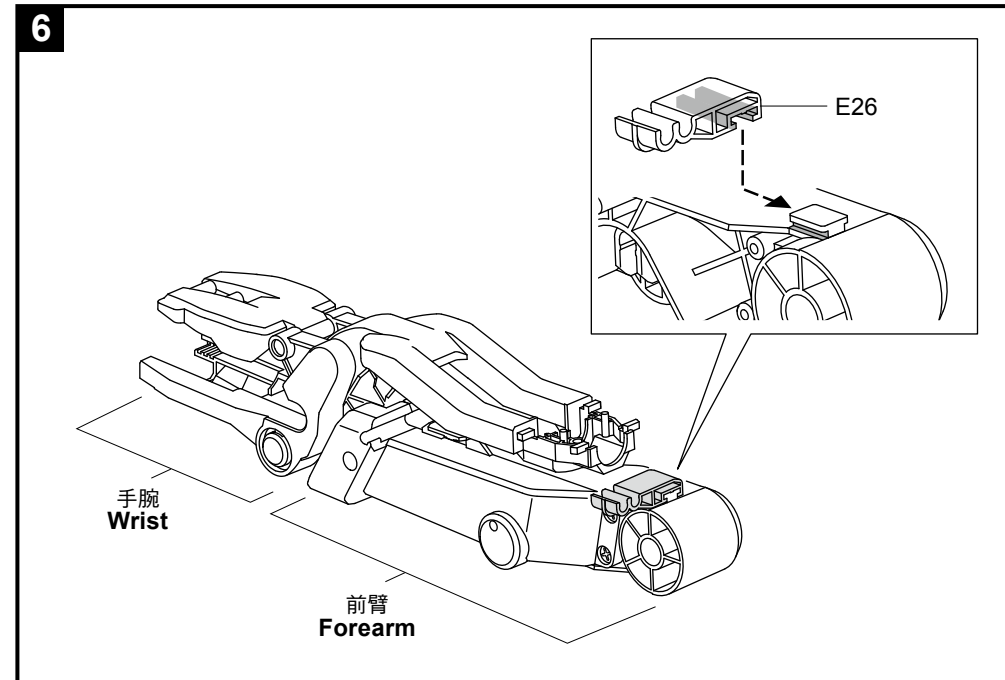
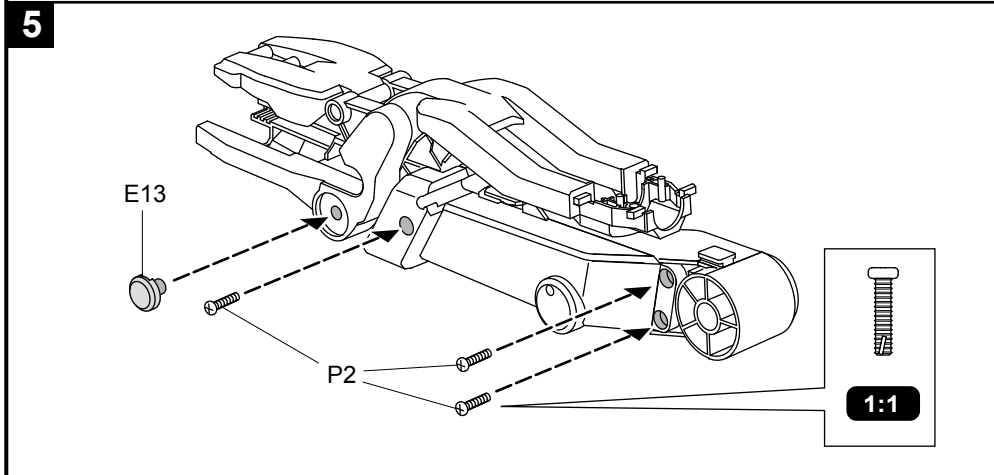
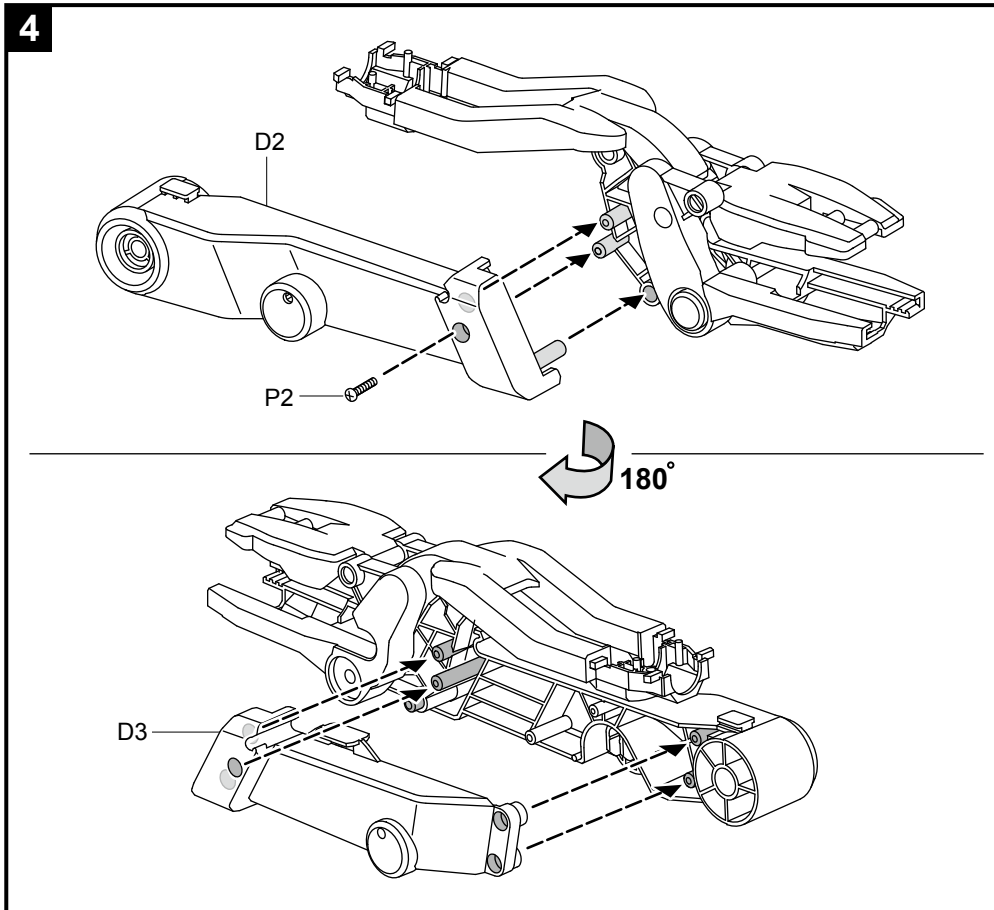


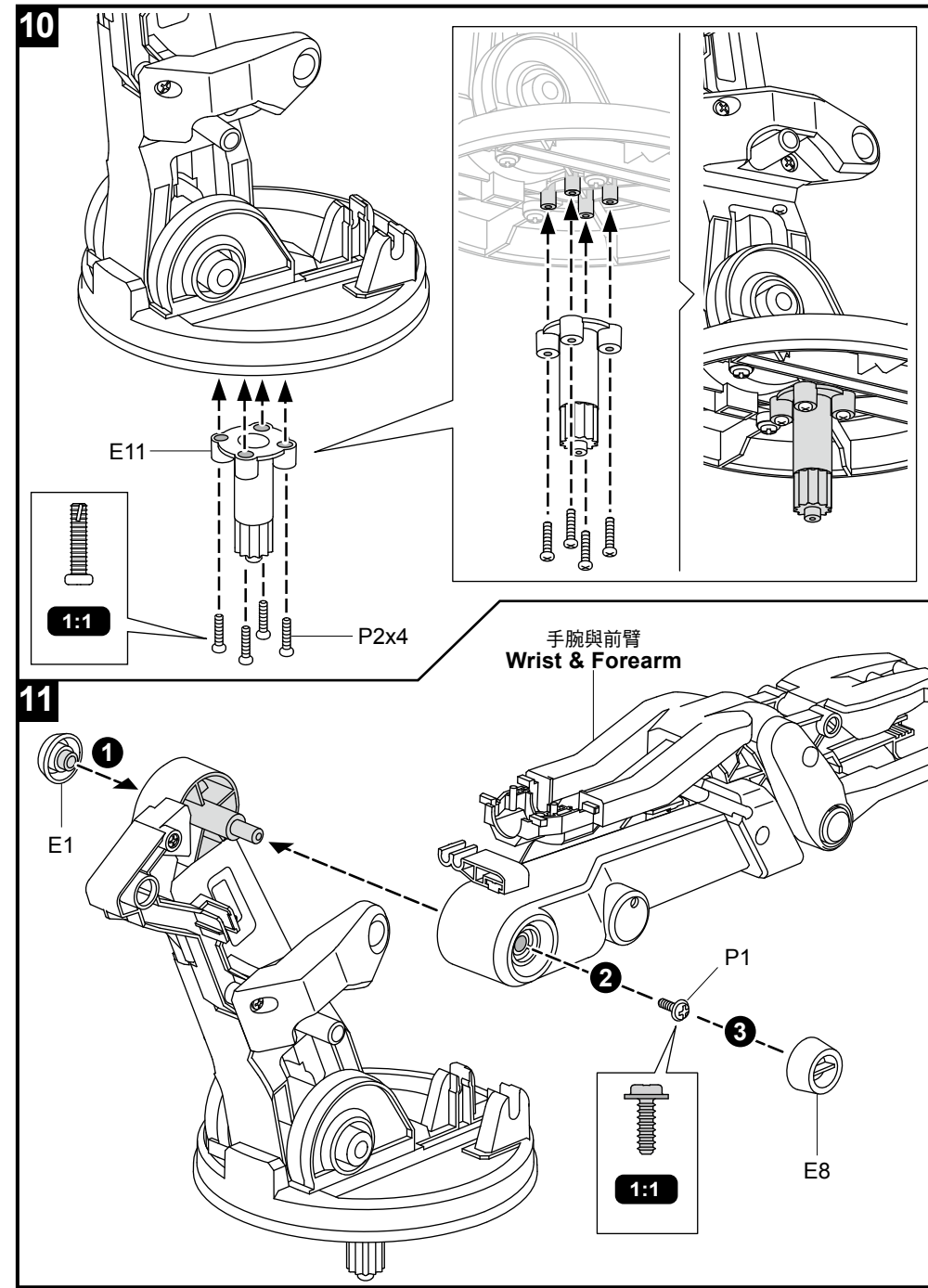
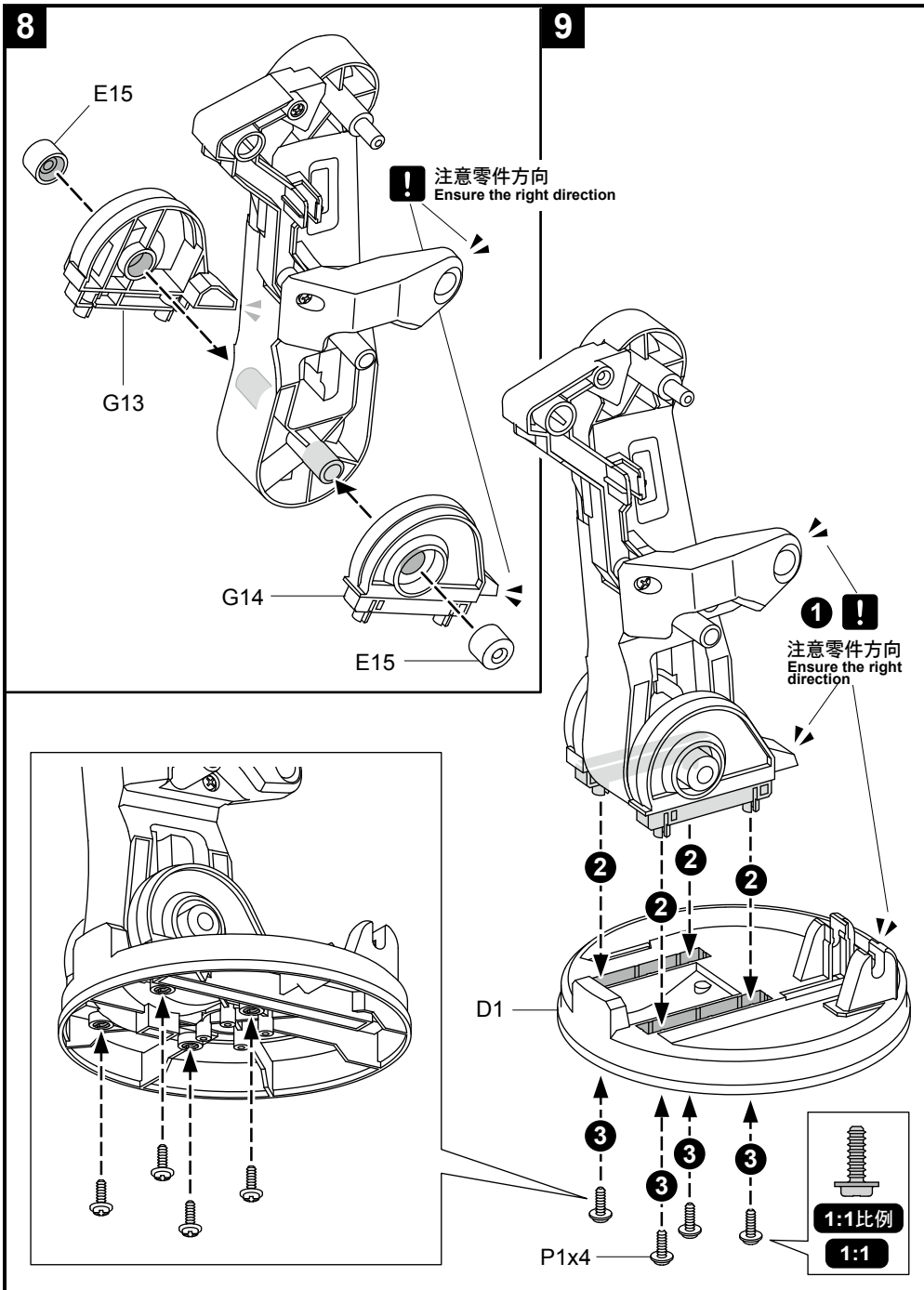
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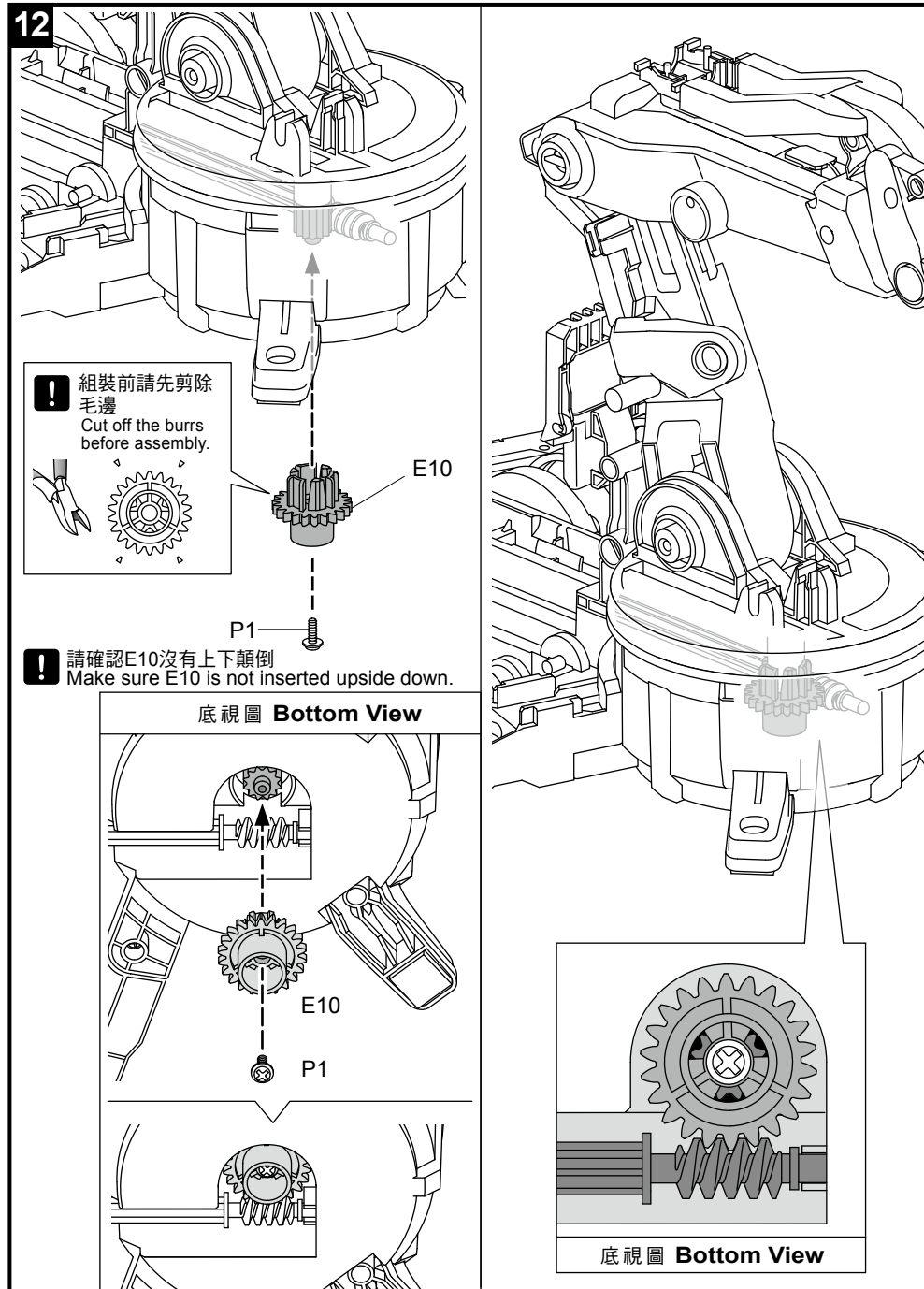
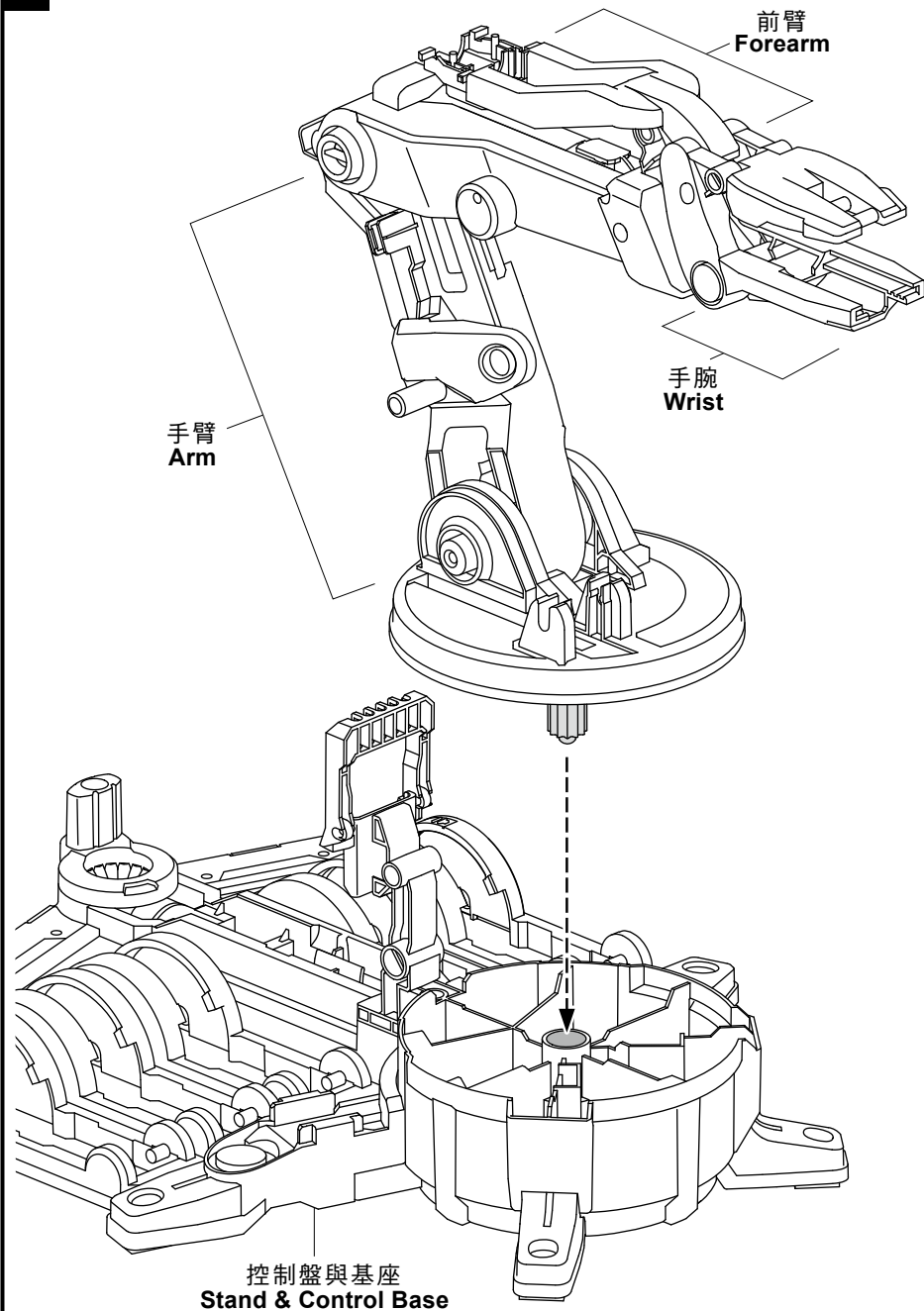


3



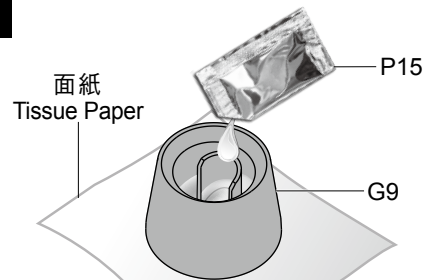






油包使用說明 How To Oil The Parts

1



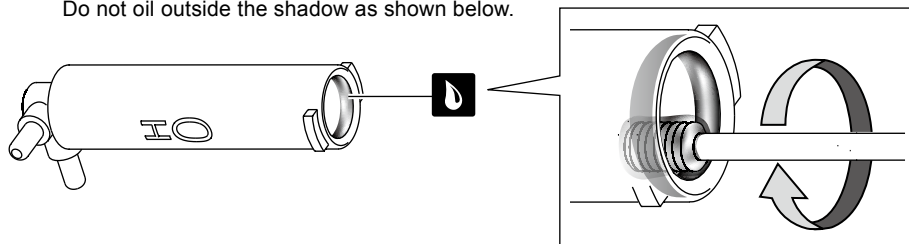
請小心將液壓油倒入G9，請勿溢出
Do not spill any oil from the G9 oil sink.
Keep oil contained.

2

= 抹油 Apply Oil

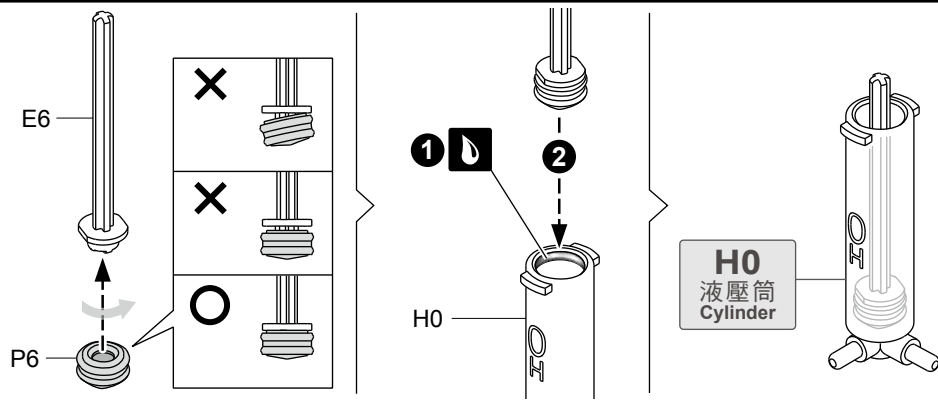
注意：出現此圖 代表零件需抹油
Note: Oil the parts when appears.

! 請勿將液壓油抹到外面
Do not oil outside the shadow as shown below.



H0~H5 液壓筒組裝 H0~H5 Cylinder Assembly

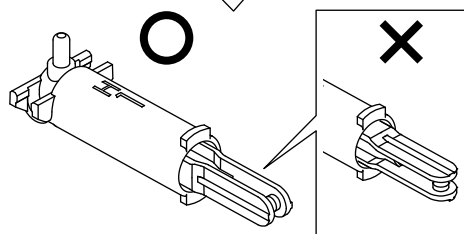
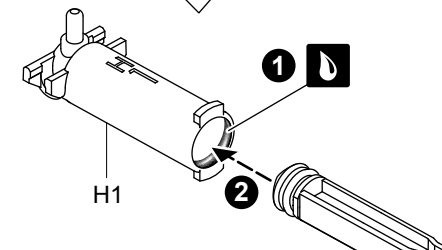
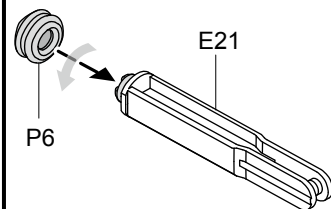
H0 液壓筒組裝 H0 Cylinder Assembly



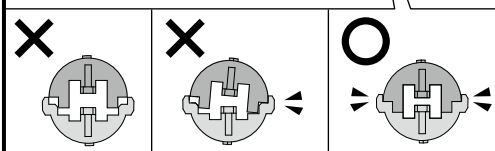
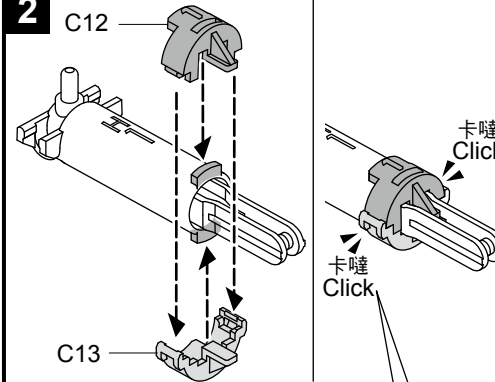
! 重要操作，請特別注意
Important

H1 液壓筒組裝 H1 Cylinder Assembly

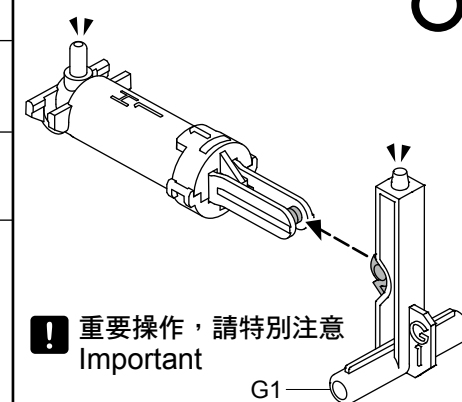
1



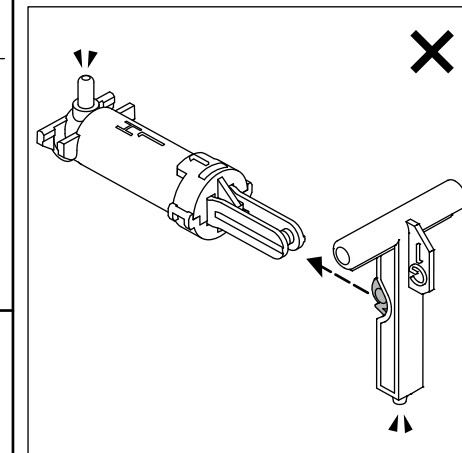
2



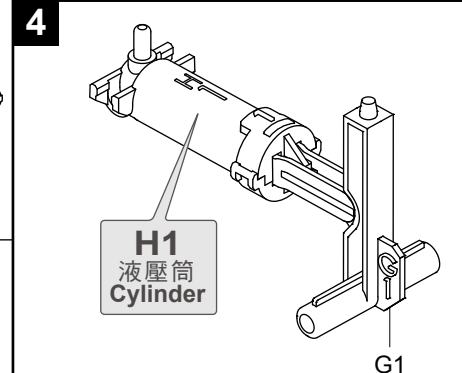
3



! 重要操作，請特別注意
Important

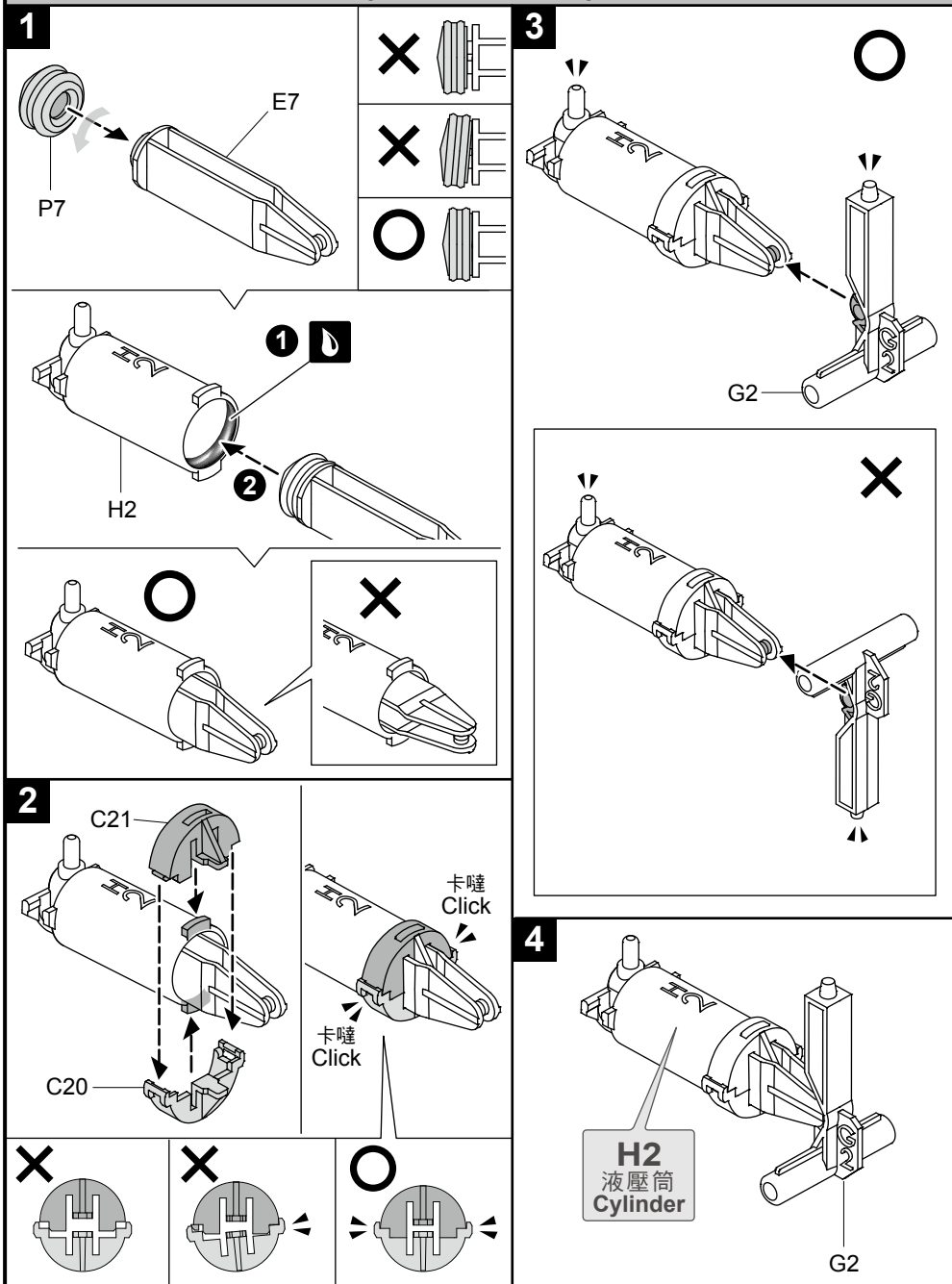


4



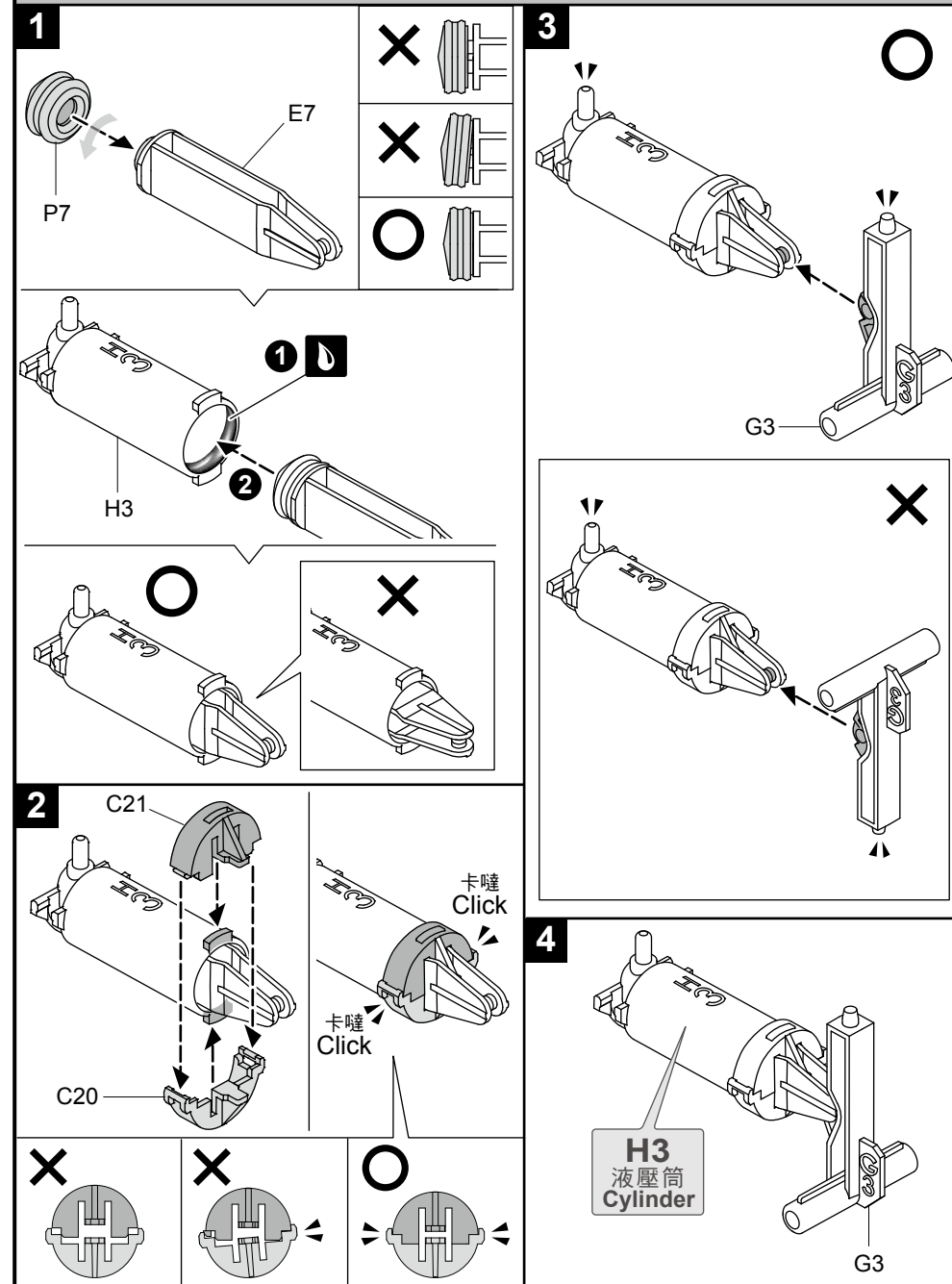
H 2 液壓筒組裝 H2 Cylinder Assembly

! 重要操作，請特別注意
Important



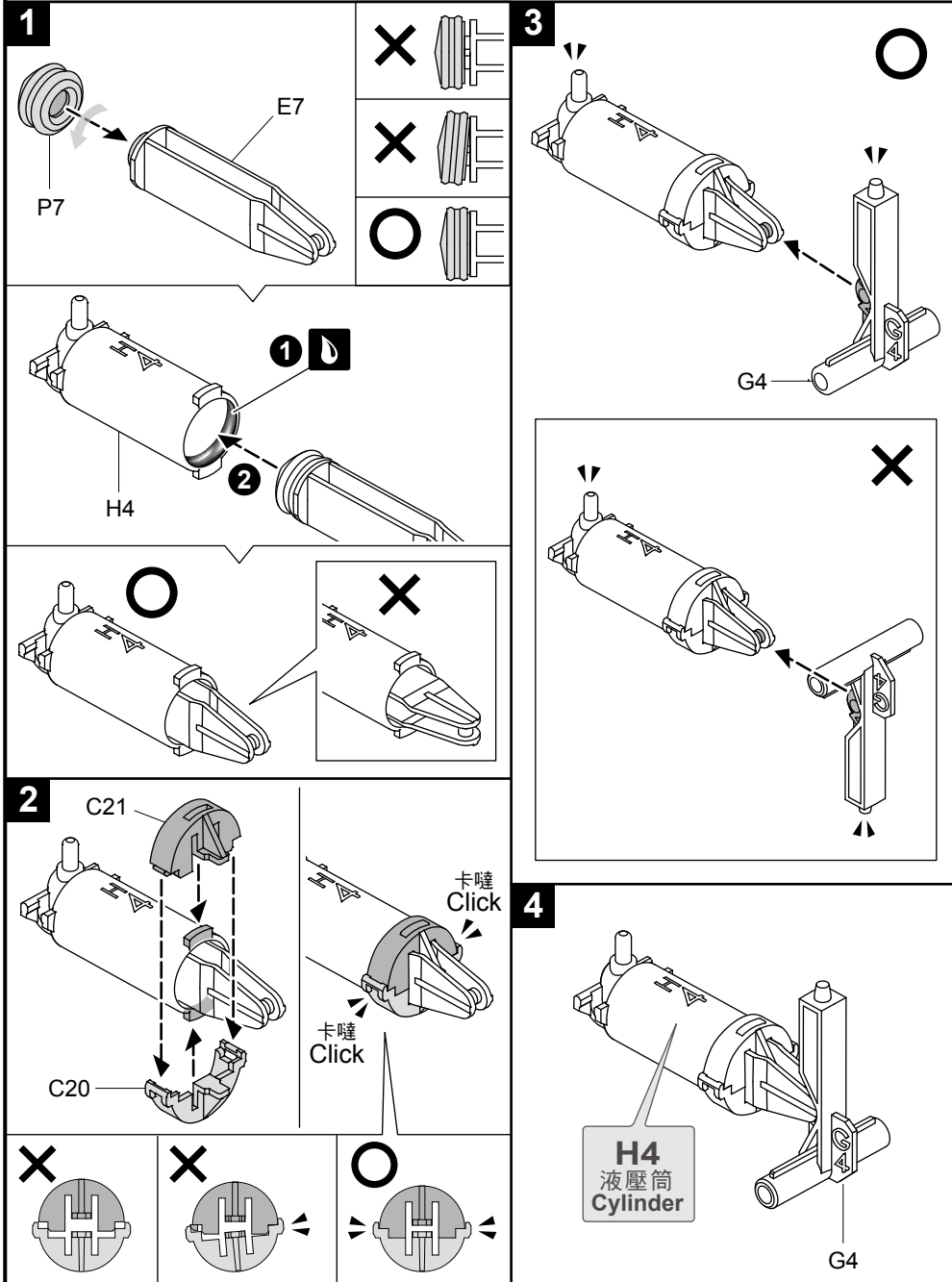
H 3 液壓筒組裝 H3 Cylinder Assembly

! 重要操作，請特別注意
Important



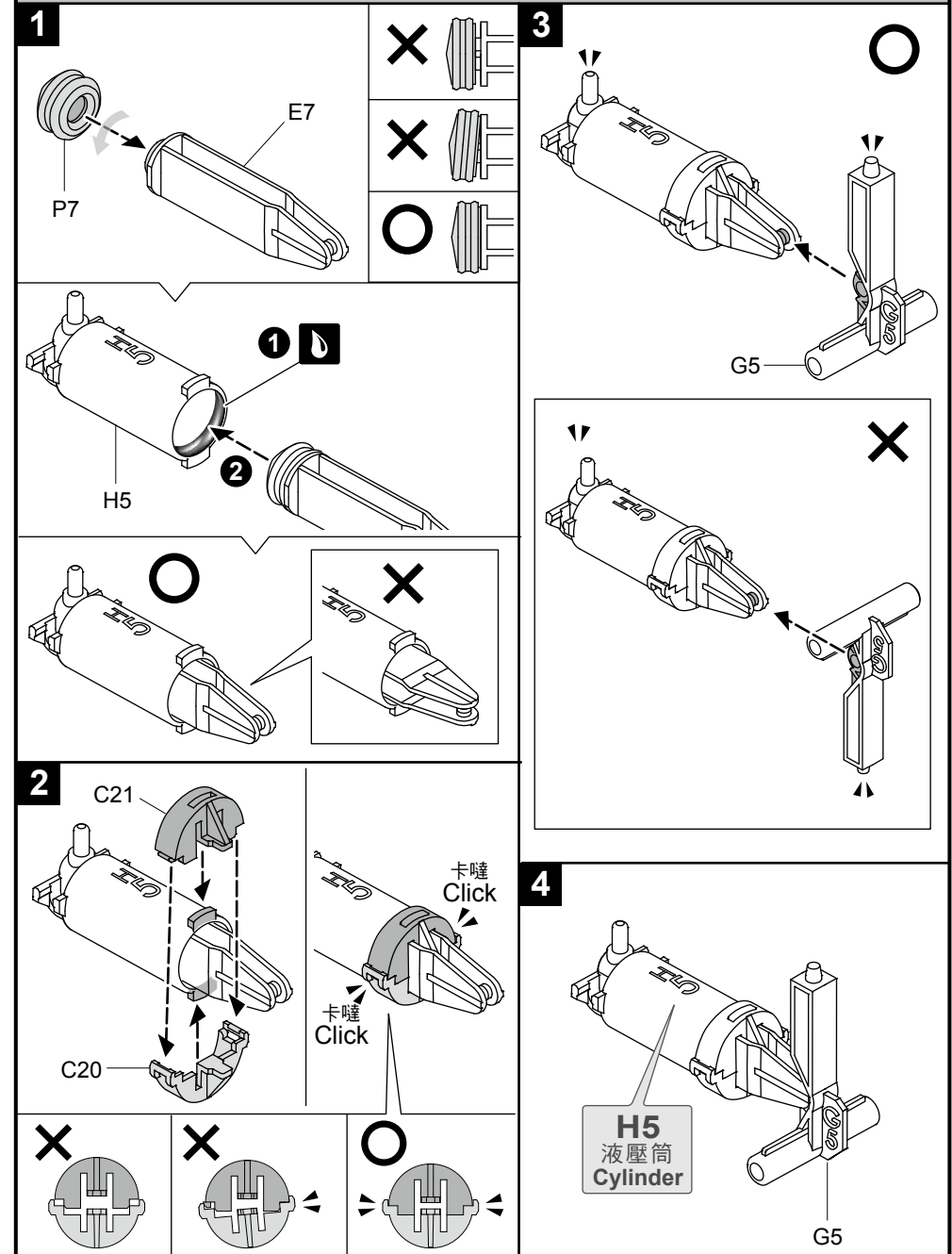
! 重要操作，請特別注意
Important

H 4 液壓筒組裝 H4 Cylinder Assembly



! 重要操作，請特別注意
Important

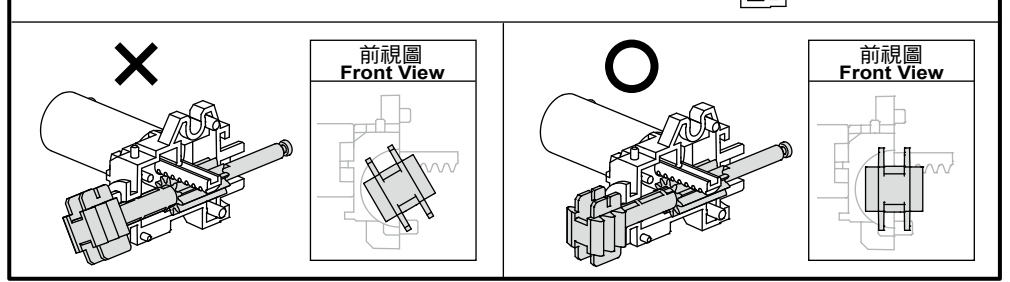
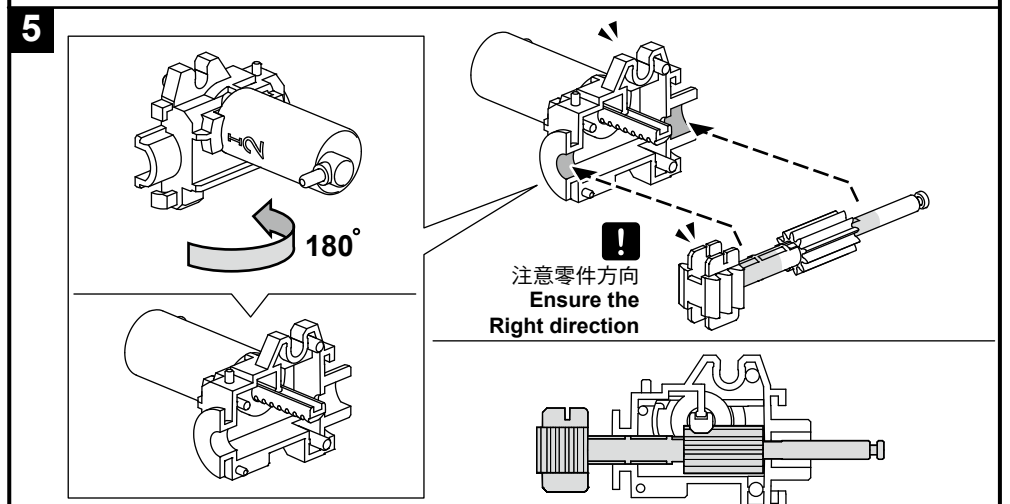
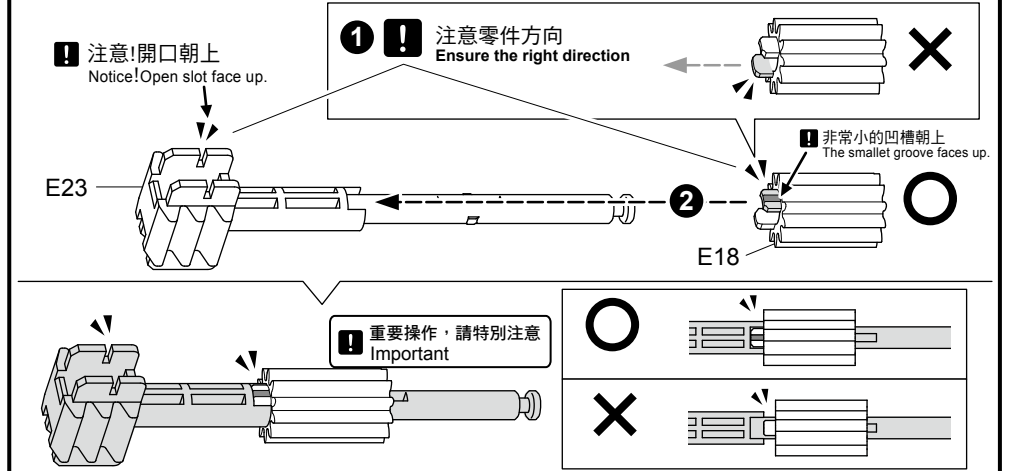
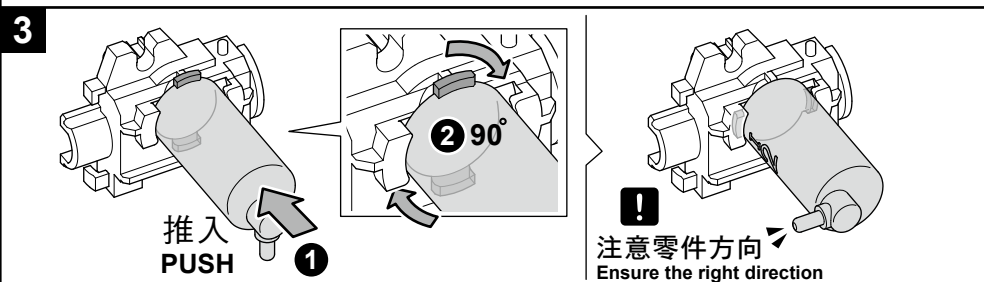
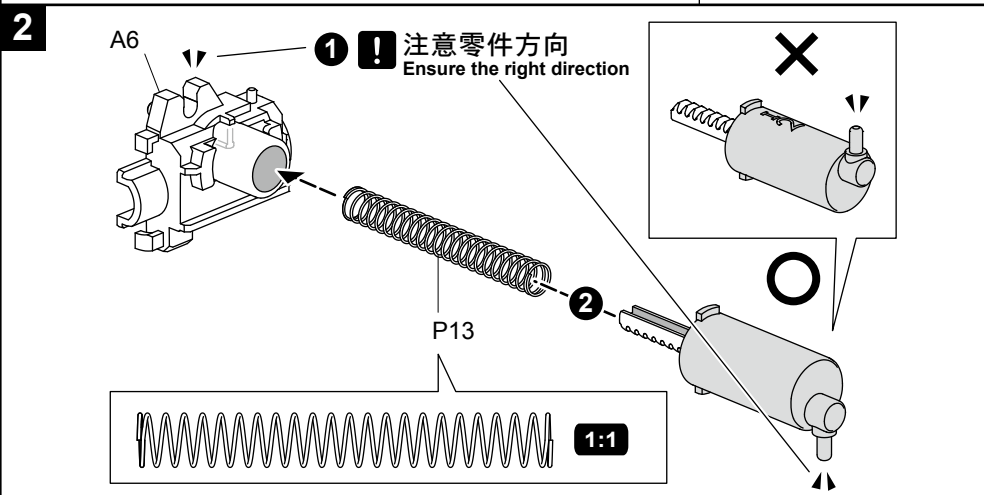
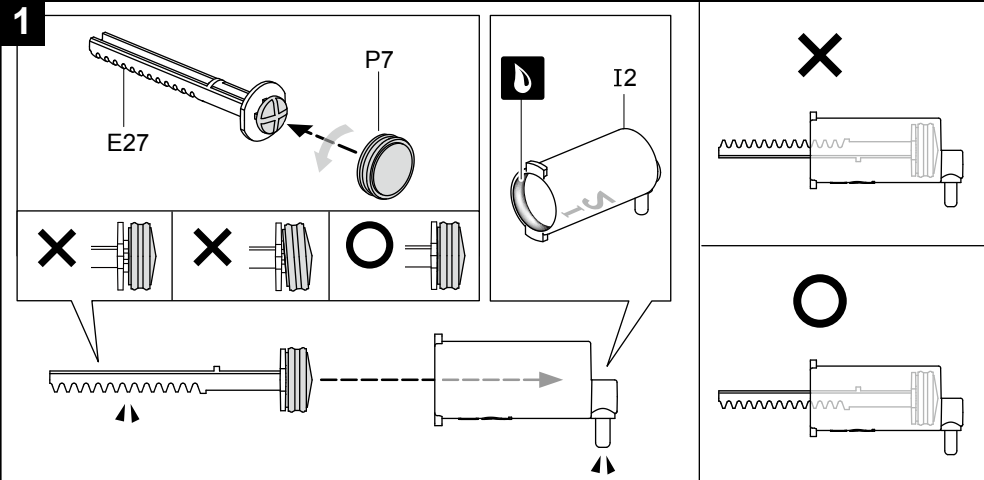
H 5 液壓筒組裝 H5 Cylinder Assembly

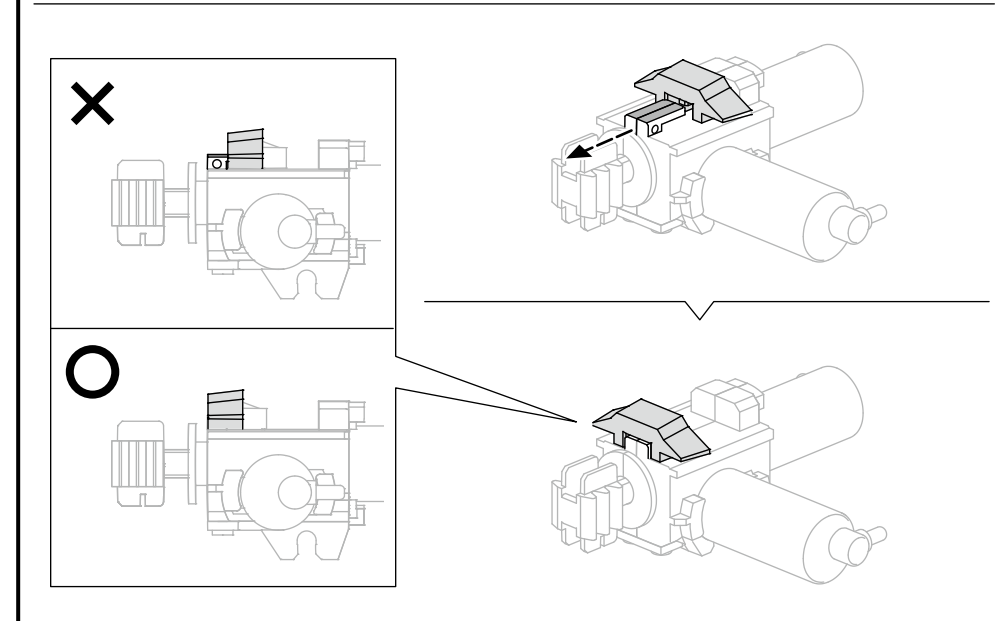
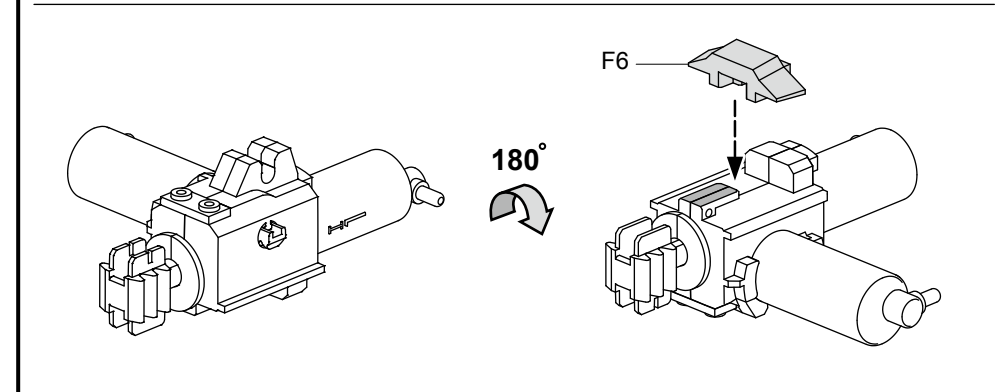
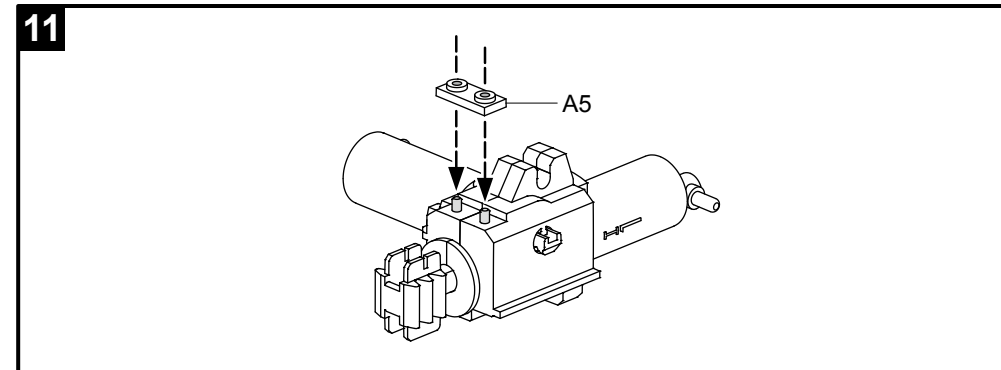
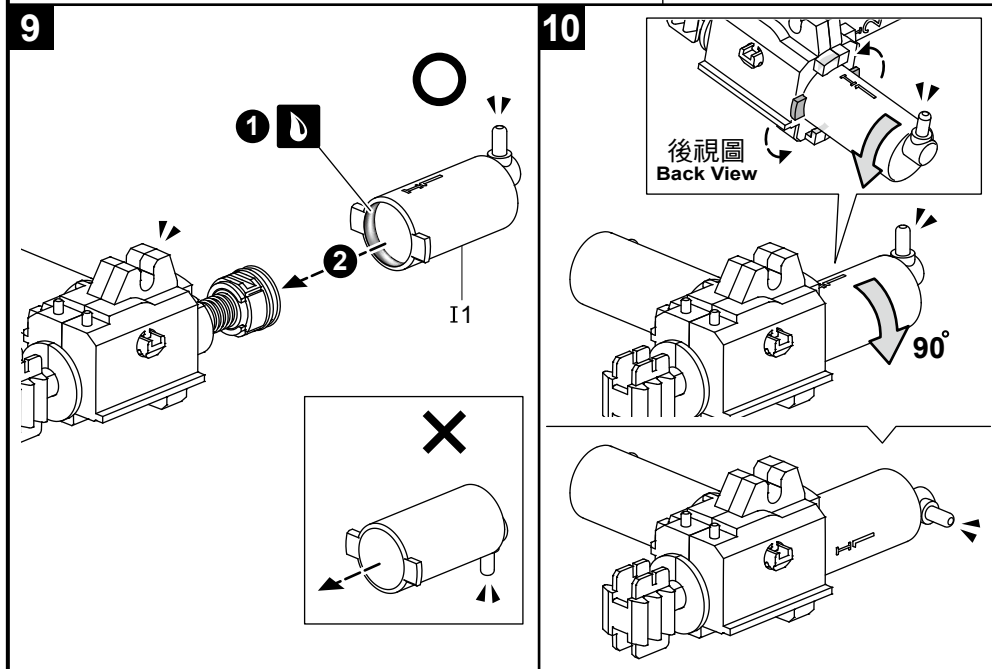
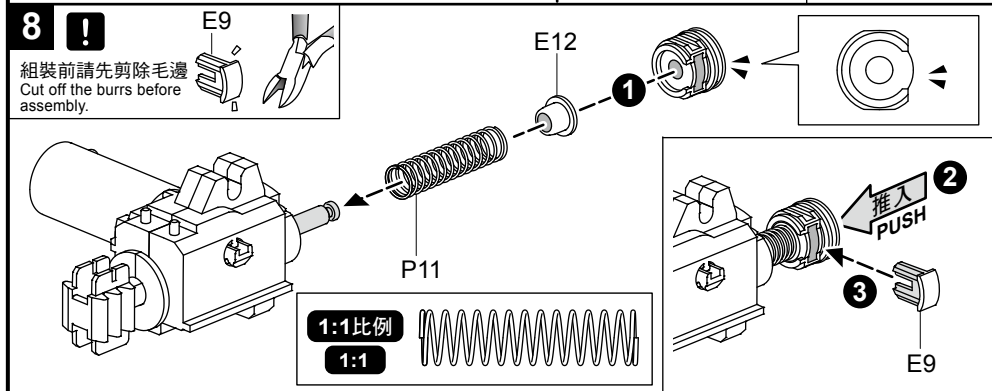
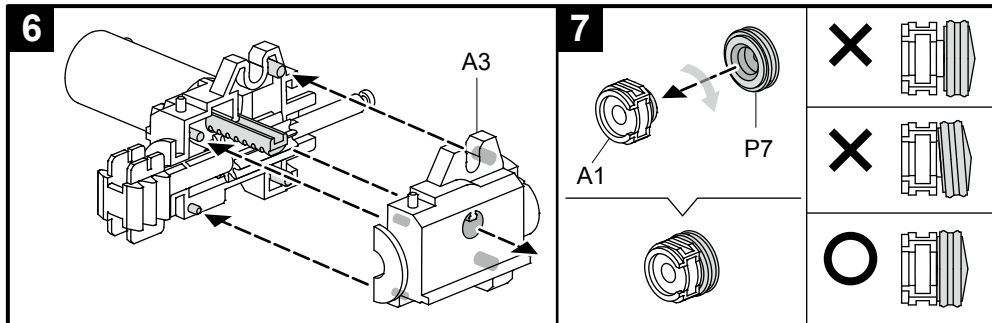


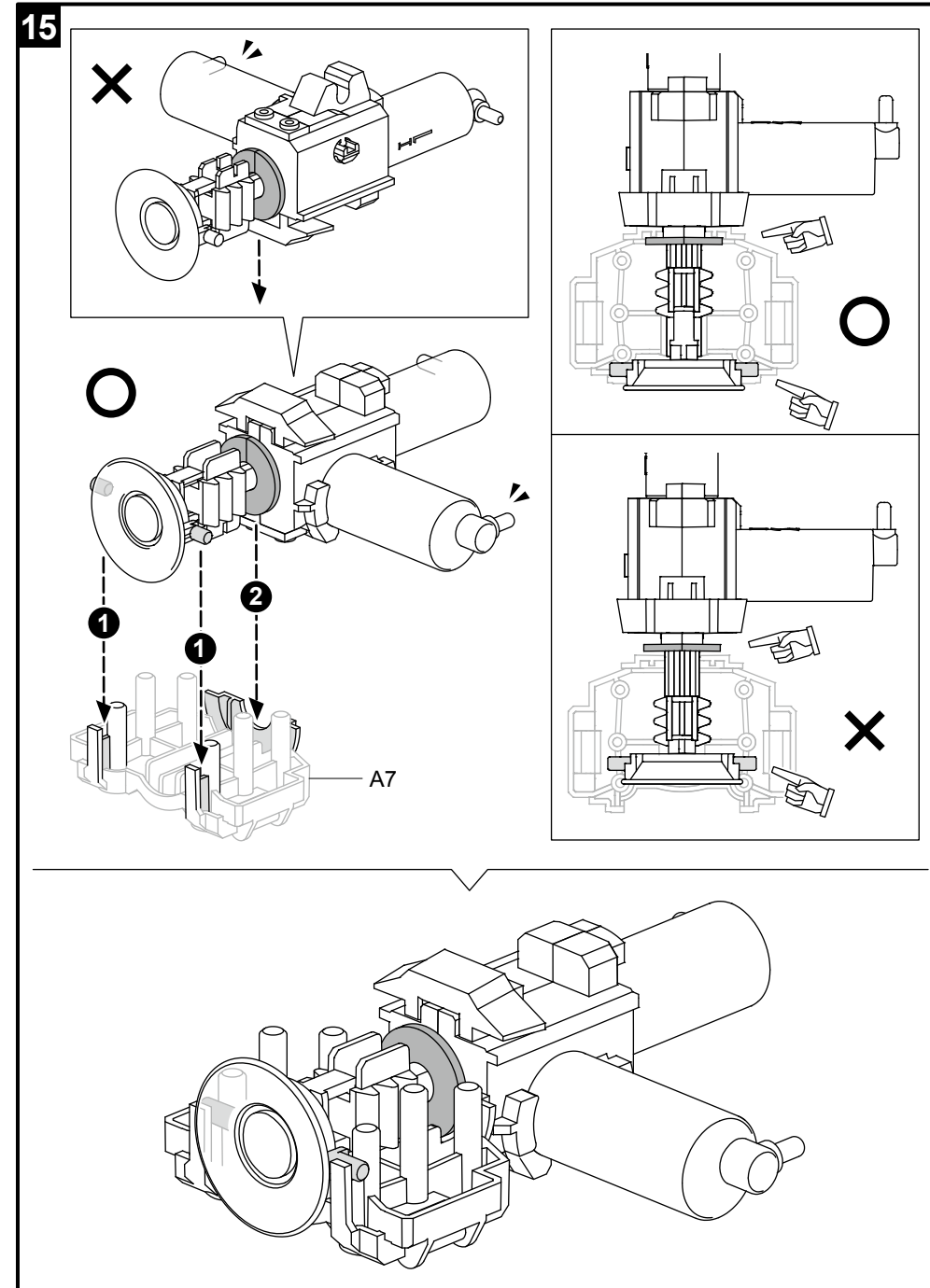
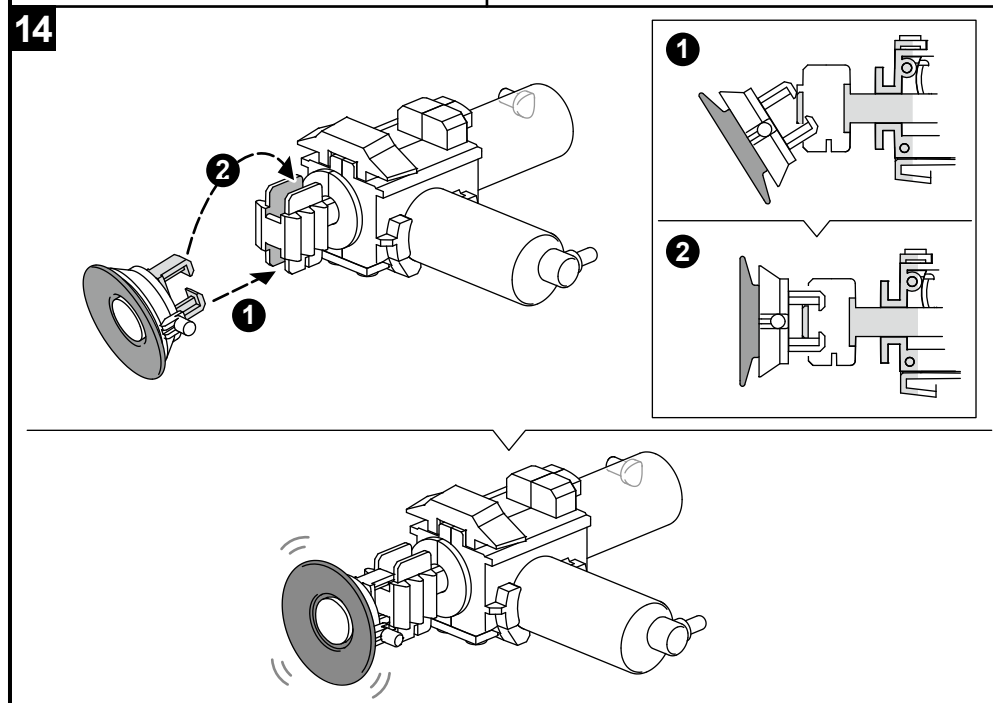
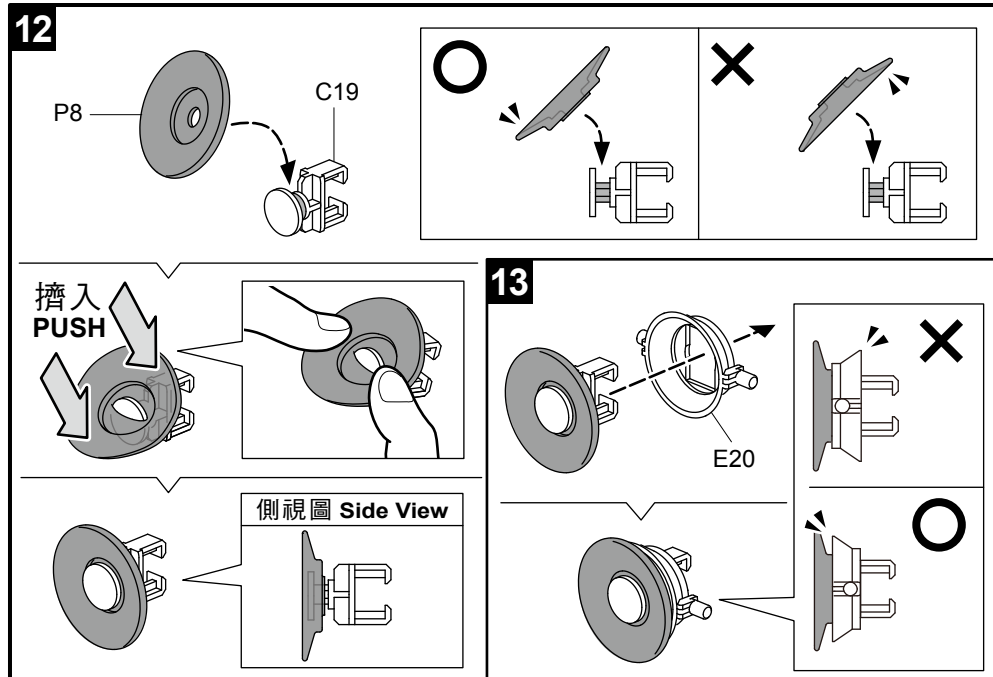
I 1~ I 5 液壓筒組裝 I1 ~ I5 Cylinder Assembly

重要操作，請特別注意
Important

I 1~ I 2 液壓筒組裝 I1 & I2 Cylinder

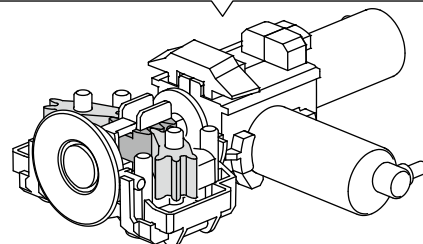
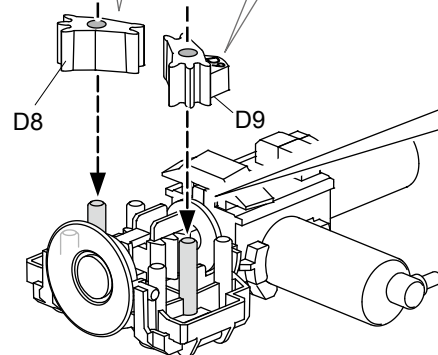
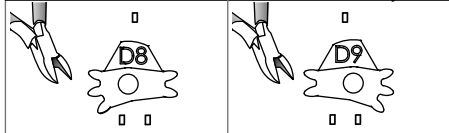






16

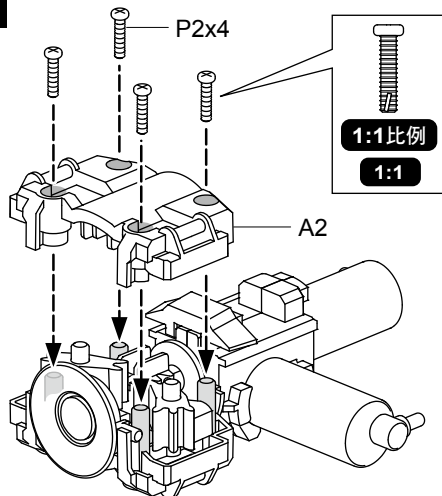
! 組裝前請先剪除毛邊
Cut off the burrs before assembly.



! 非常重要
Very Important

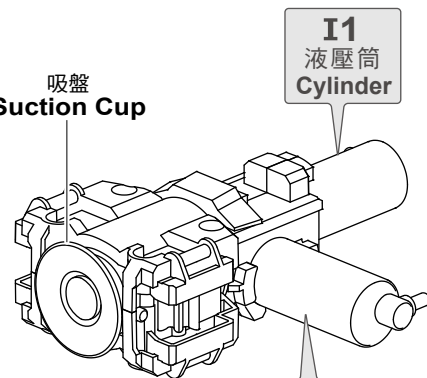


17



1:1比例
1:1

吸盤
Suction Cup

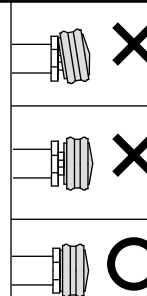
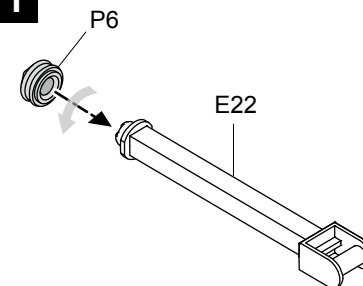


I2
液壓筒
Cylinder

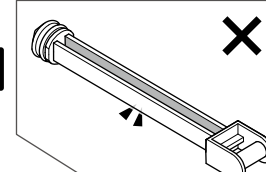
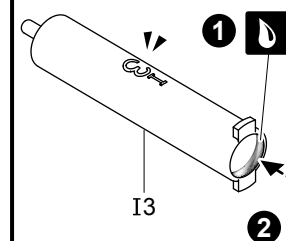
! 重要操作，請特別注意
Important

I 3 液壓筒組裝 I3 Cylinder

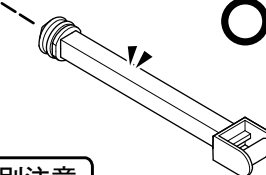
1



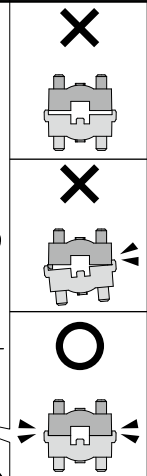
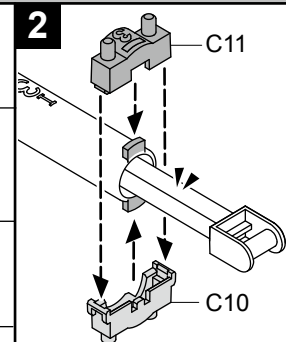
1



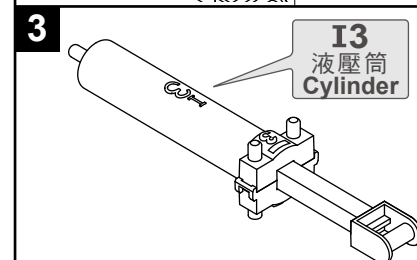
2



2



3

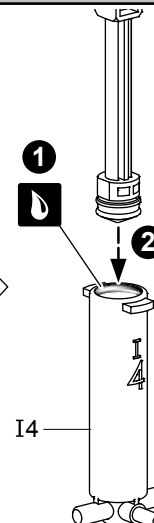
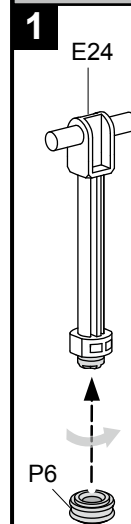


I3
液壓筒
Cylinder

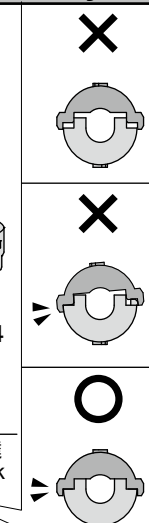
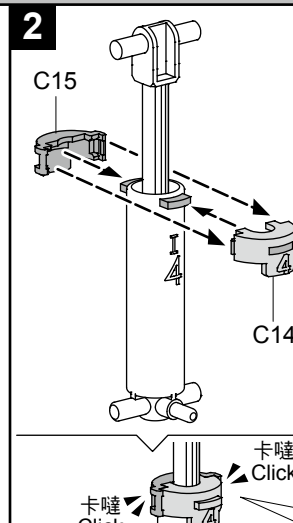
! 重要操作，請特別注意
Important

I 4 液壓筒組裝 I4 Cylinder

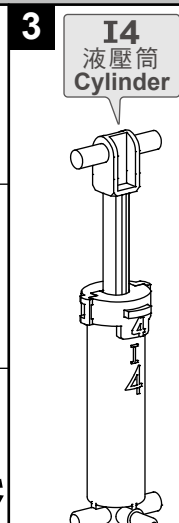
1



2



3

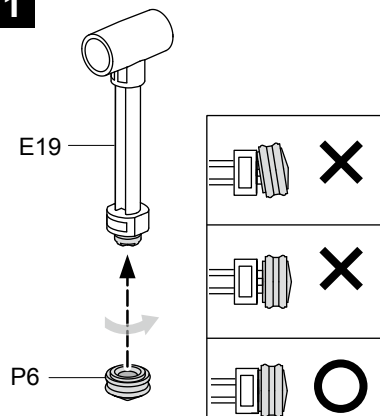


I4
液壓筒
Cylinder

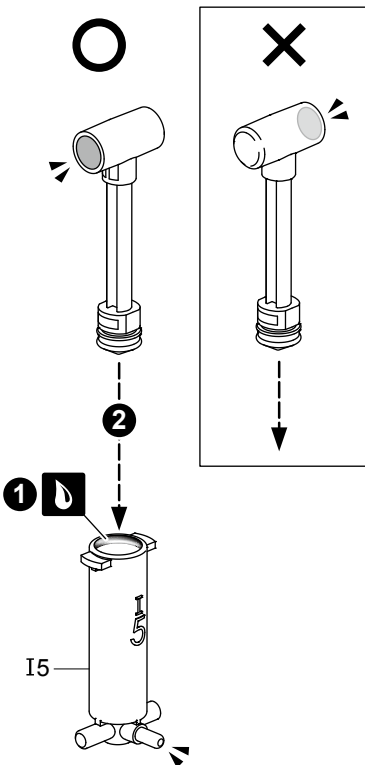
重要操作，請特別注意
Important

I 5 液壓筒組裝 I5 Cylinder

1

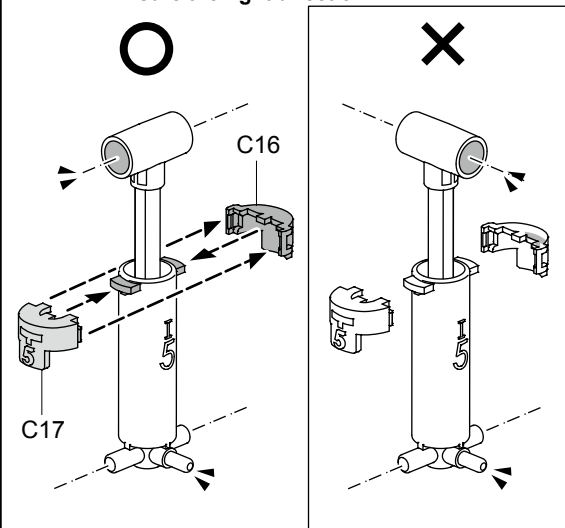


注意零件方向
Ensure the right direction

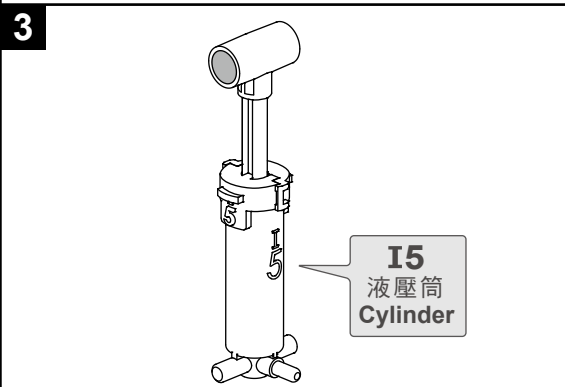


2

注意零件方向
Ensure the right direction



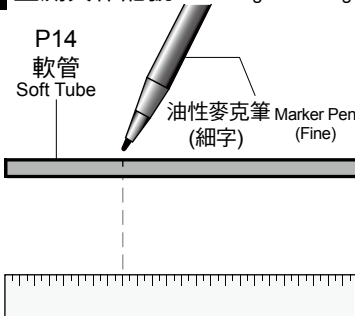
3



軟管裁切 How To Cut The Tube

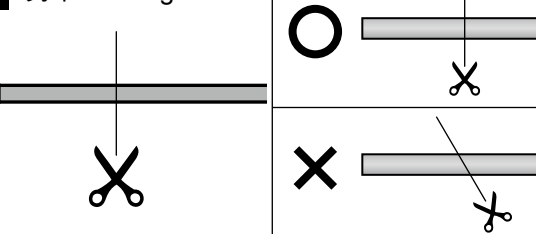
1

量測與作記號 Measuring & Marking



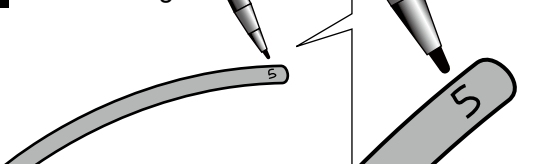
2

剪下 Cutting



3

編號 Coding

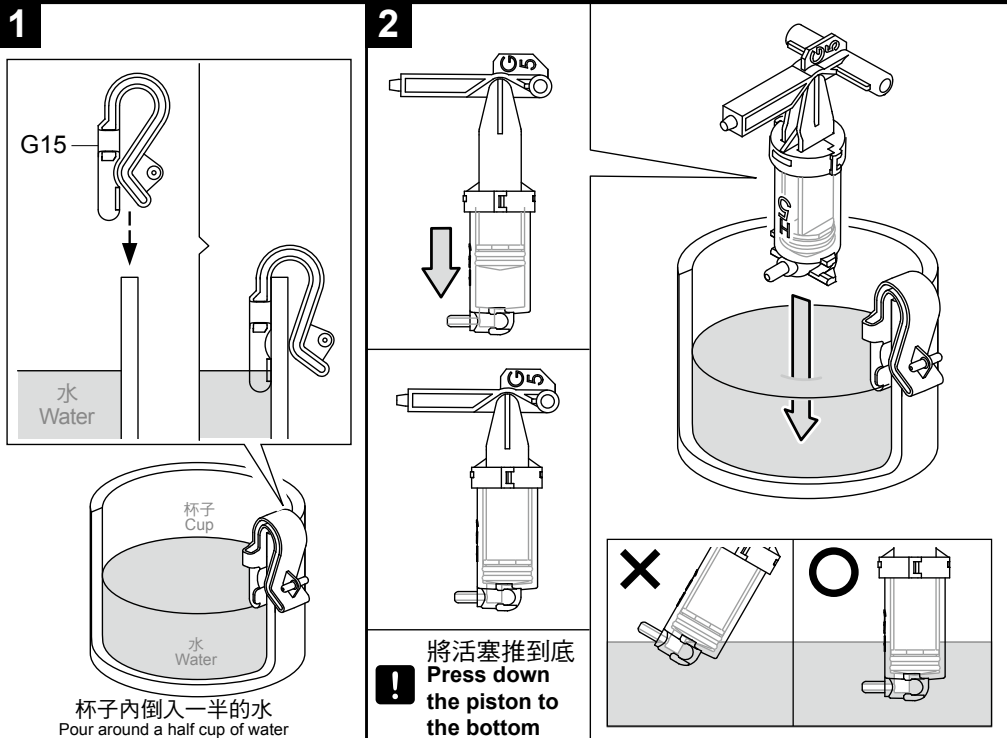


4

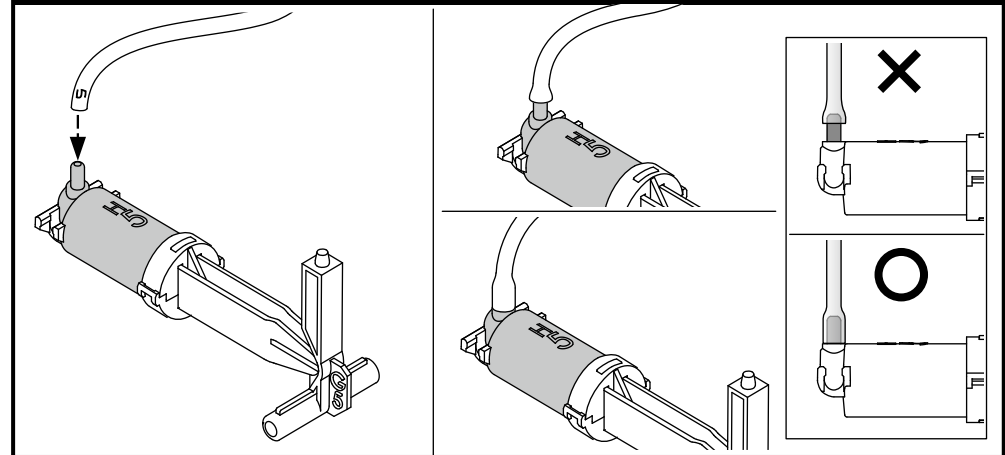
分別按照以下尺寸量測軟管與作記號，剪下後予以編號。軟管1和軟管0請用同一根軟管剪切
Use the same tube to cut Tube 1 & Tube 0.

軟管 Tube 0	8cm (3.15 inches)	
軟管 Tube 1	50cm (19.69 inches)	
軟管 Tube 2	56cm (22.05 inches)	
軟管 Tube 3	38cm (14.96 inches)	
軟管 Tube 4	42cm (16.54 inches)	
軟管 Tube 5	53cm (20.87 inches)	

液壓筒裝水說明 How To Fill Up The Cylinder With Water

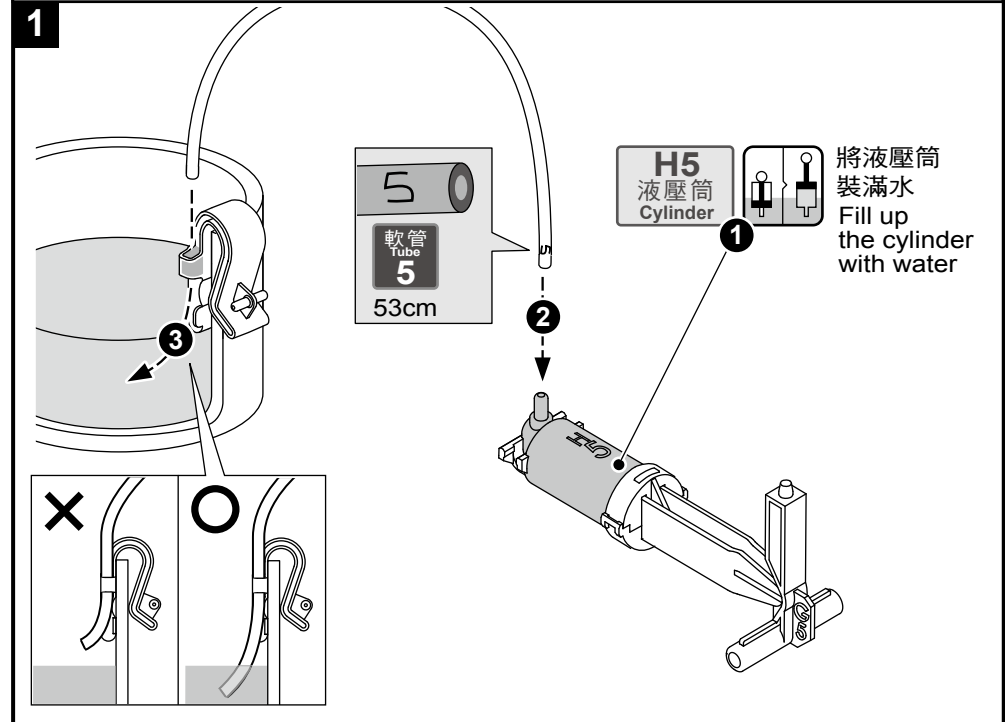


軟管與液壓筒組裝 How To Fit Tube

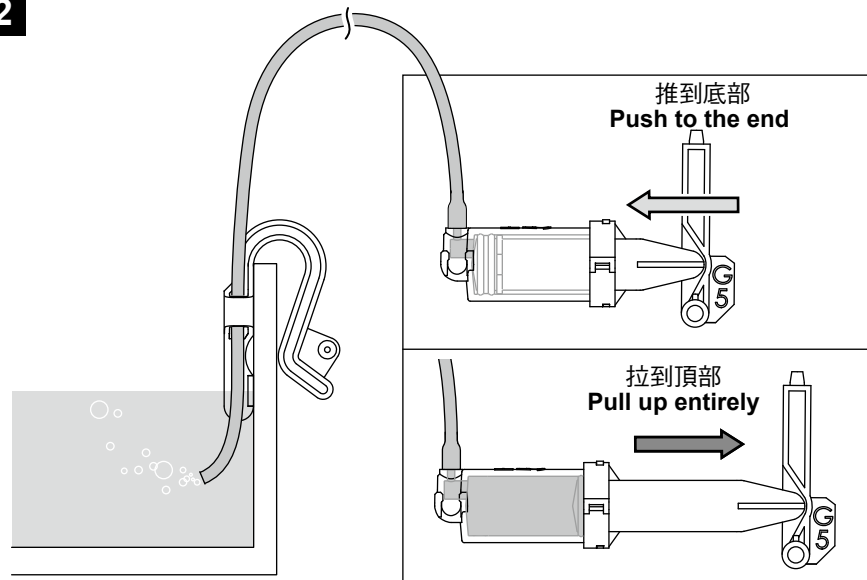


液壓筒模組組裝 Hydraulic Cylinder Module Assembly

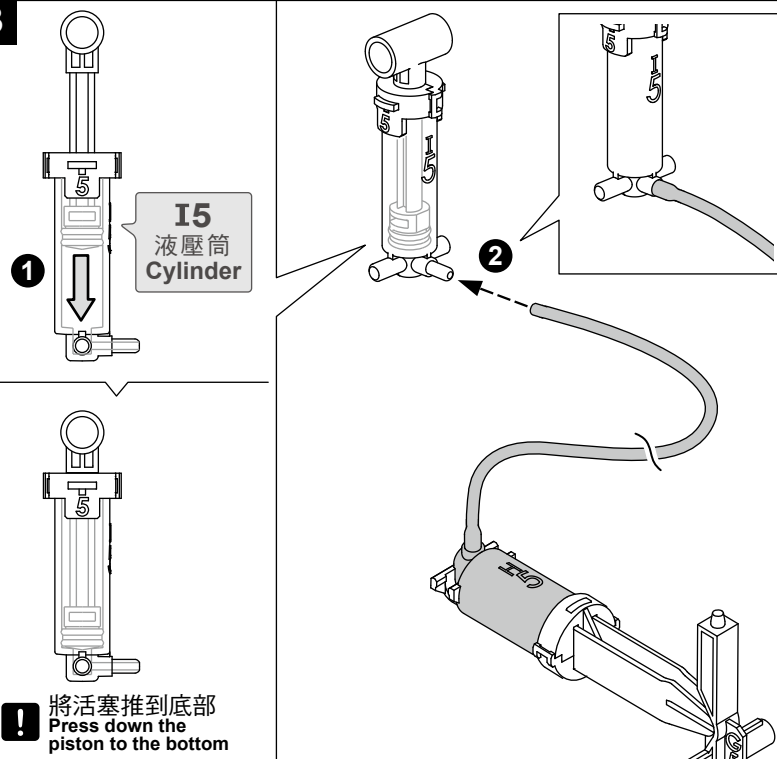
連接 H5 和 I5 Connect H5 With I5



2

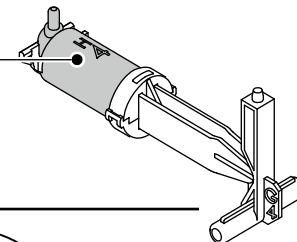


3

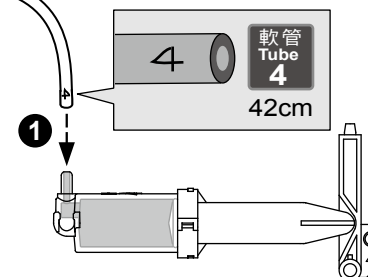
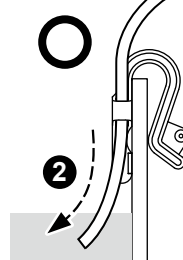
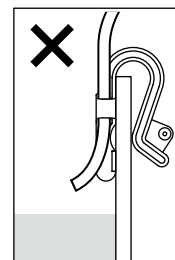


連接 H4 和 I4 Connect H4 With I4

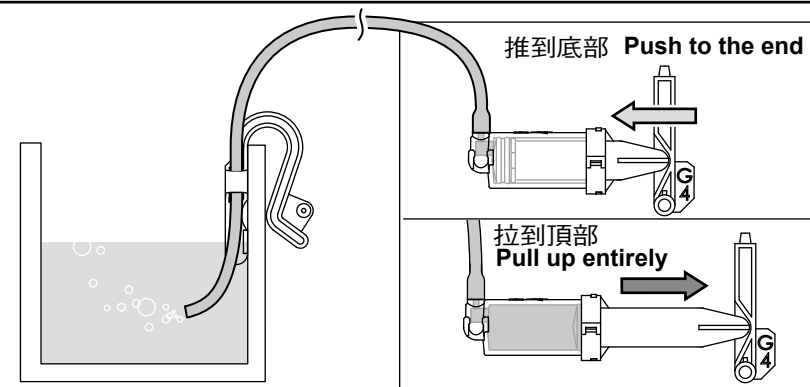
1

H4
液壓筒
Cylinder將液壓筒裝滿水
Fill up the cylinder
with water

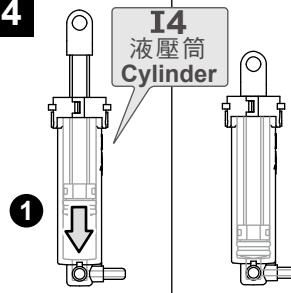
2



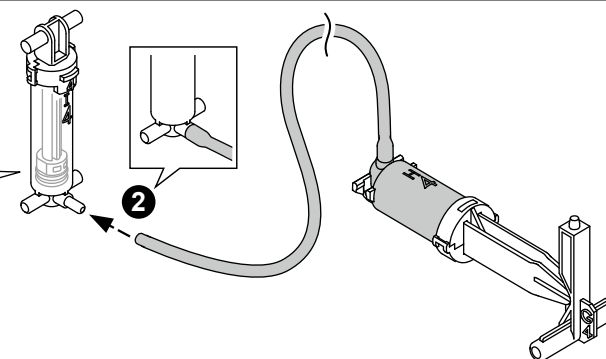
3



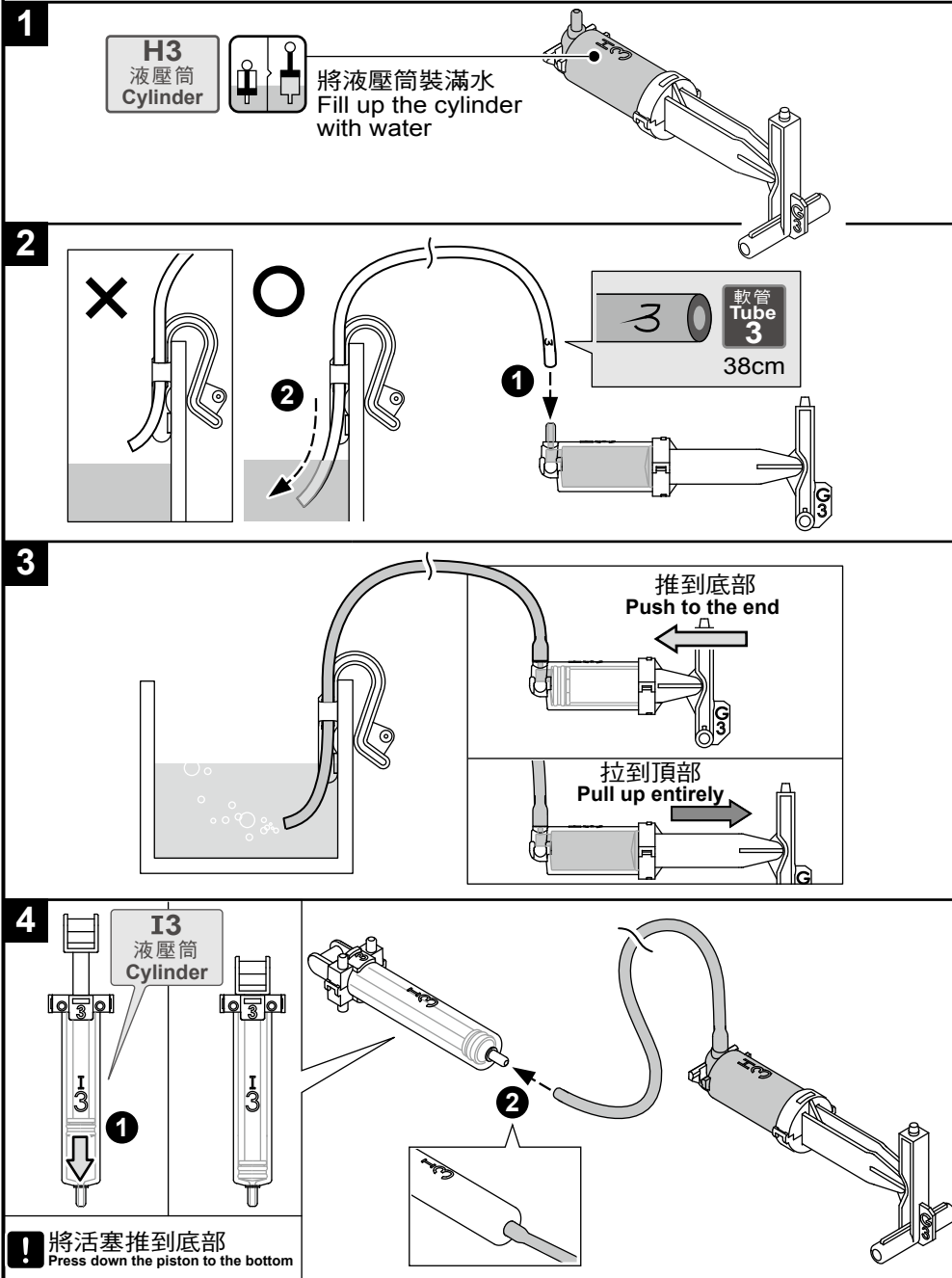
4

I4
液壓筒
Cylinder

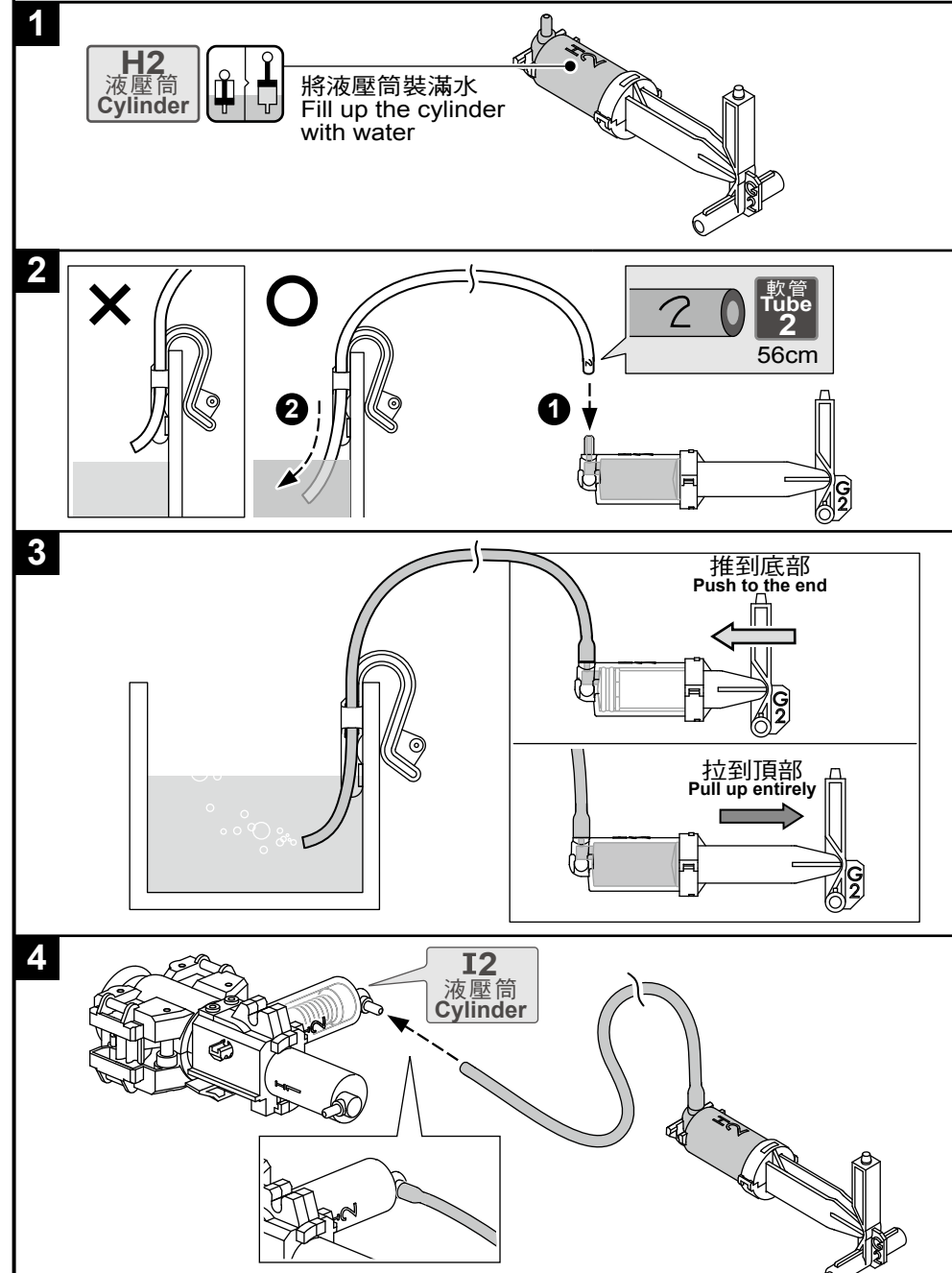
將活塞推到底部
Press down the piston to the bottom



連接 H3 和 I3 Connect H3 With I3



連接 H2 和 I2 Connect H2 With I2



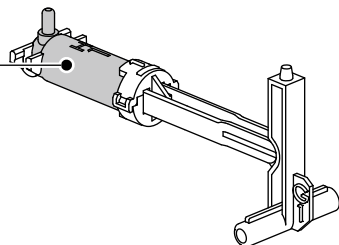
連接 H1、H0 和 I1 Connect H1、H0 With I1

1

H1
液壓筒
Cylinder



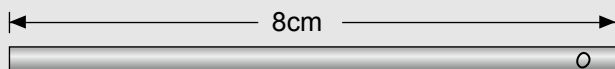
將液壓筒裝滿水
Fill up the cylinder with water



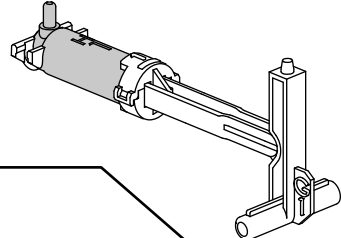
2

軟管
Tube
0

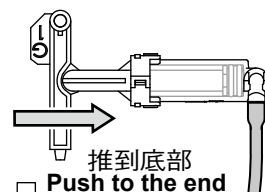
1:1



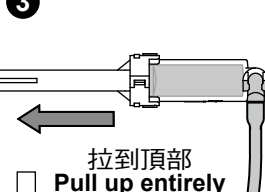
1



2



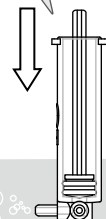
3



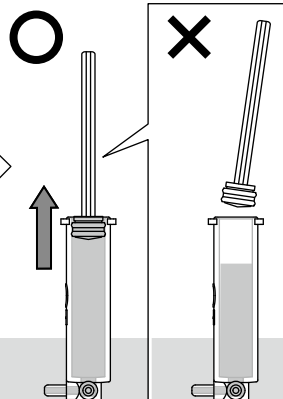
4

推到底部
Push to the end

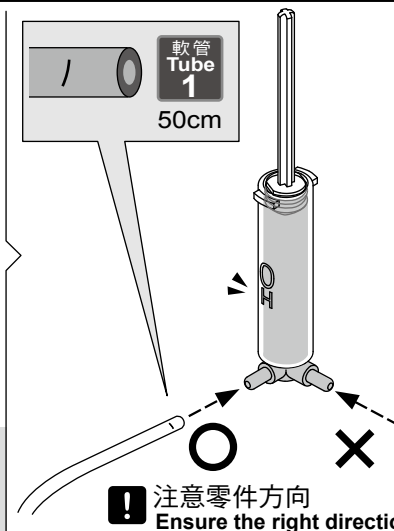
H0
液壓筒
Cylinder



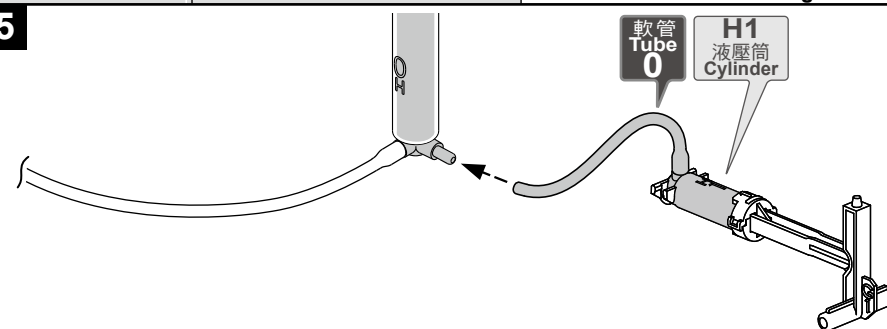
拉到頂部
Pull up entirely



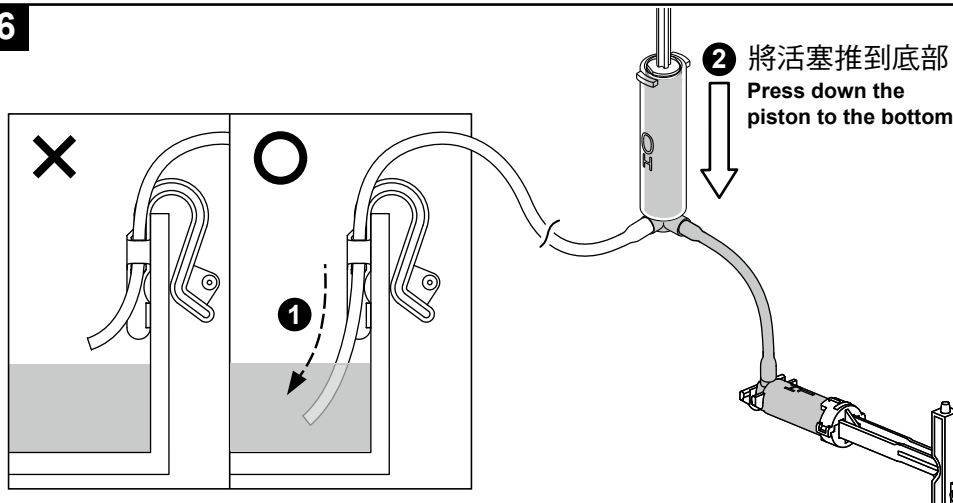
軟管
Tube
1
50cm

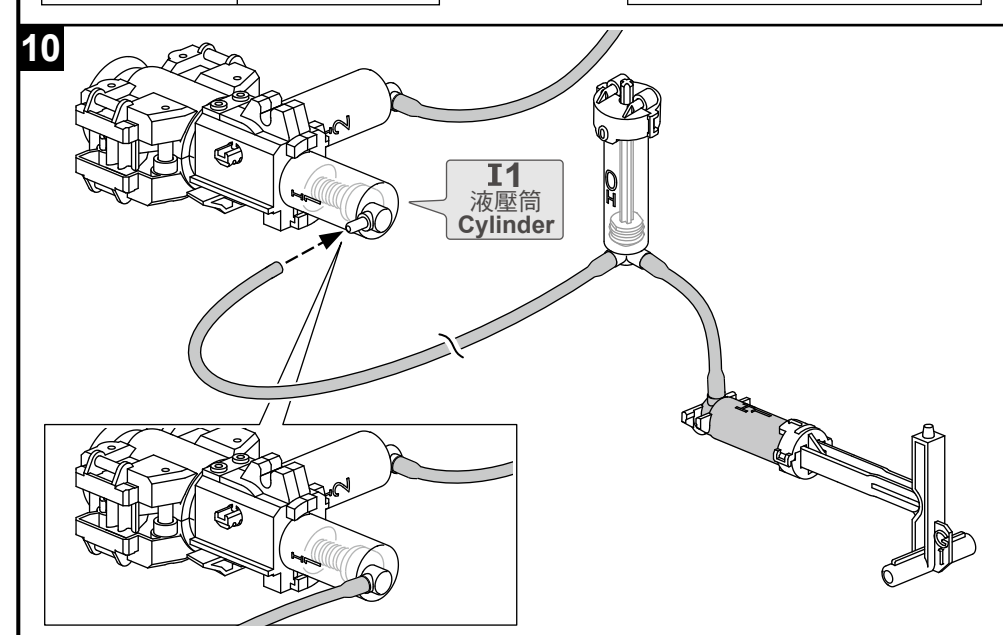
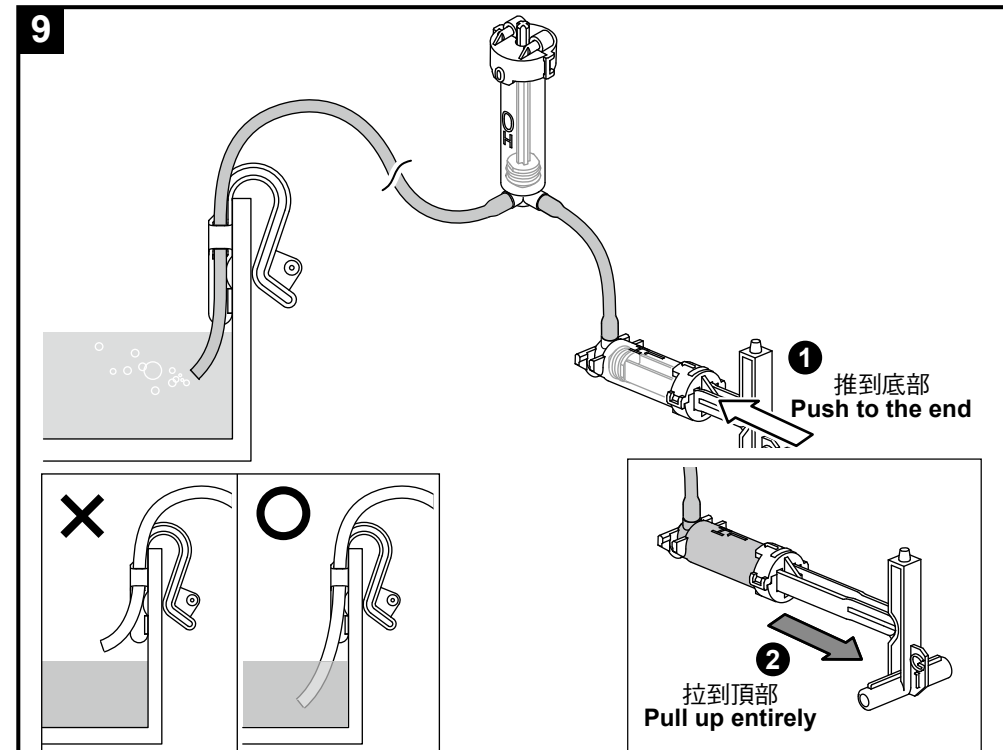
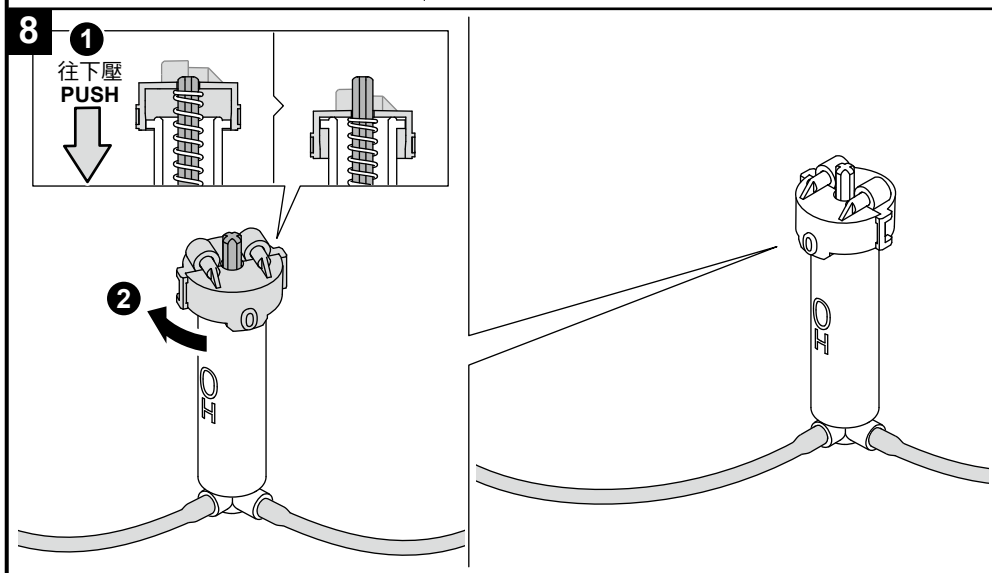
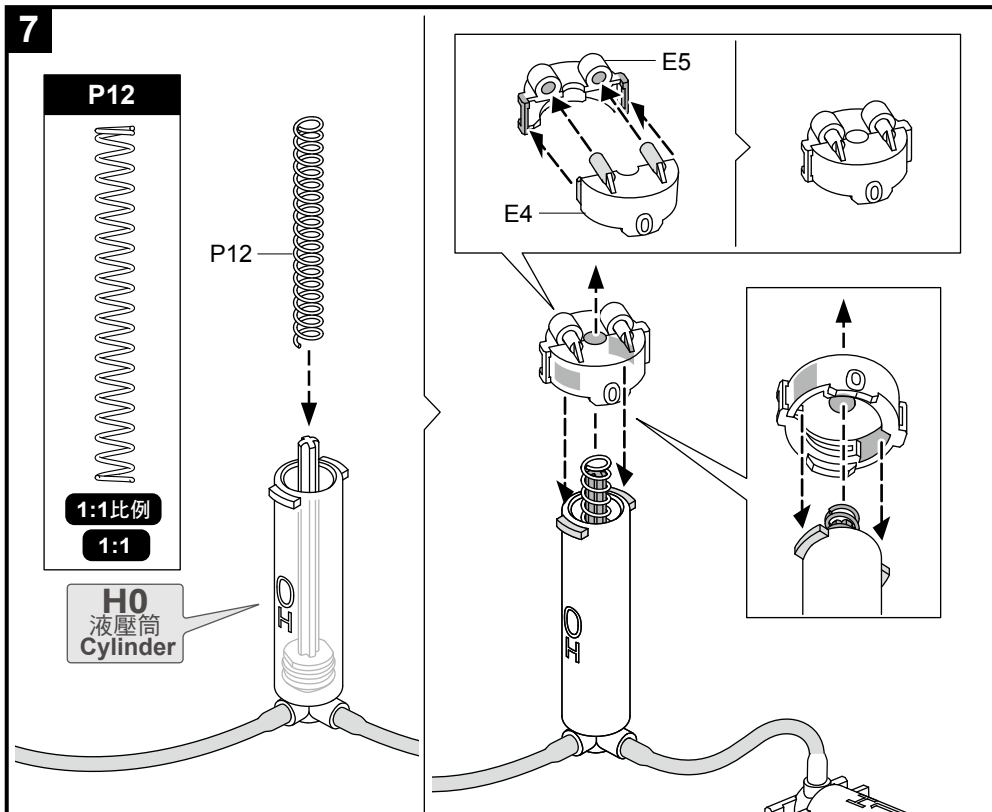


5

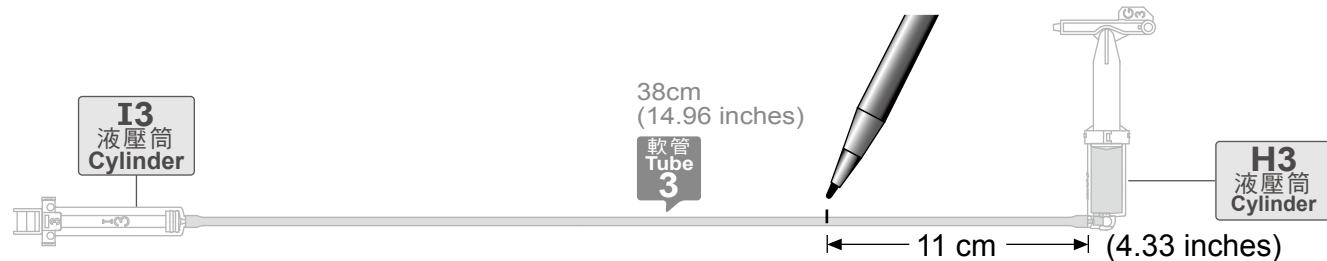
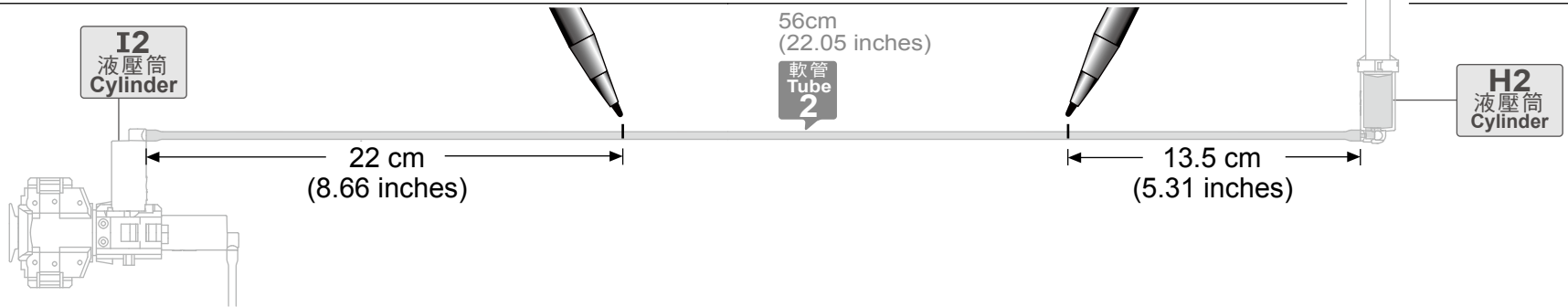
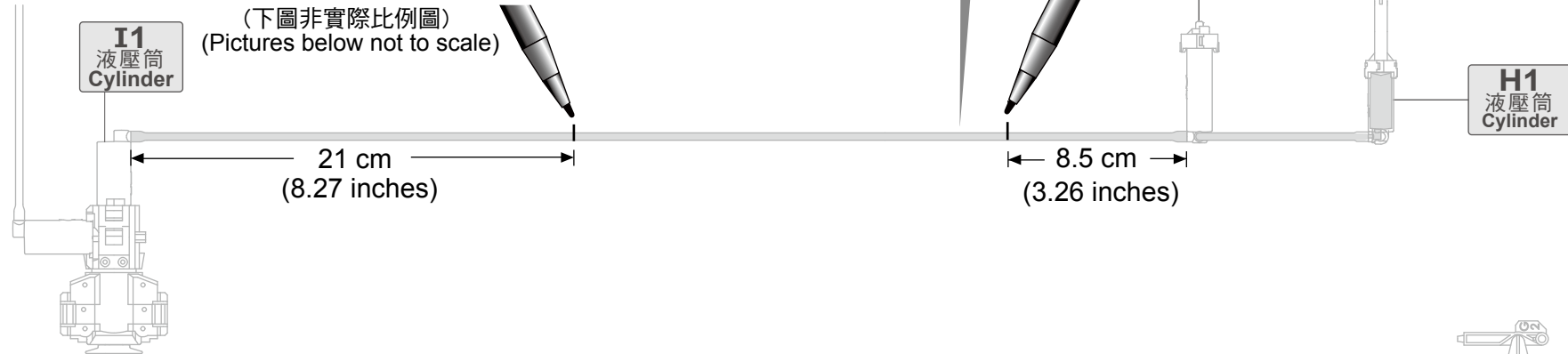
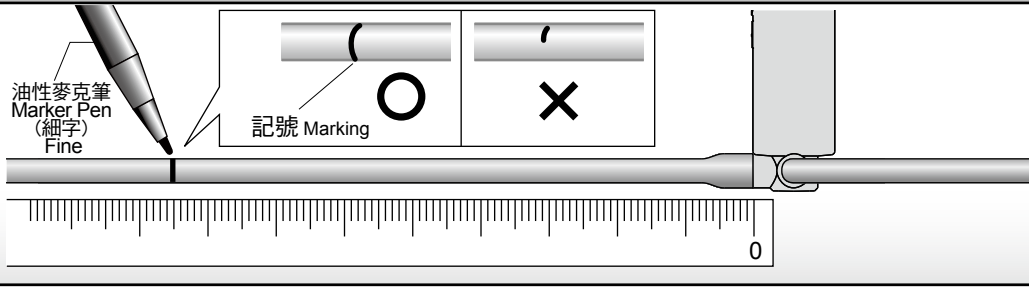


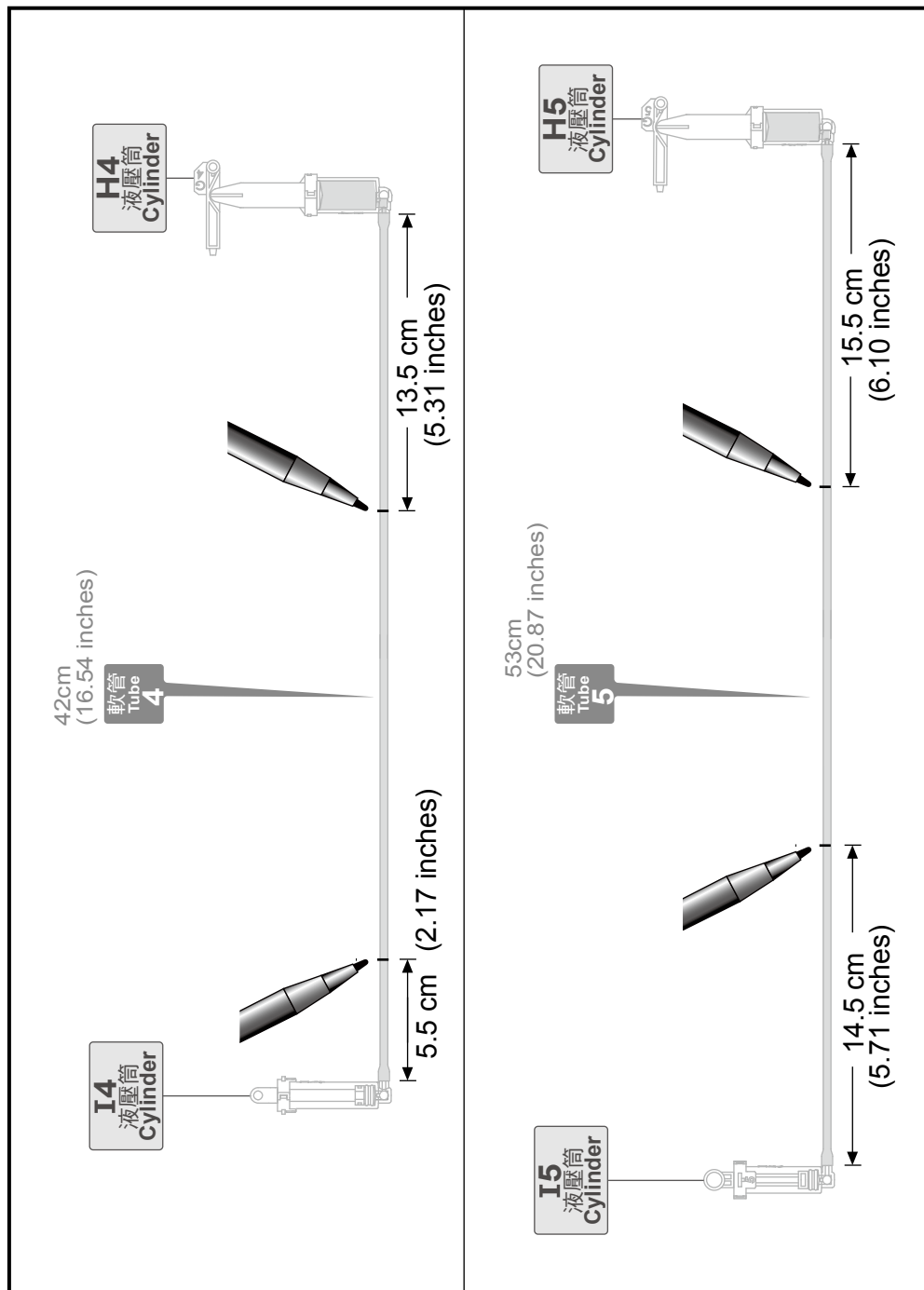
6





量測與作記號 Measuring & Marking



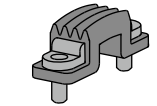
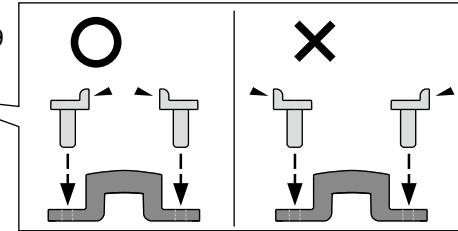
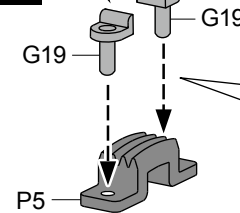


操縱桿組裝 Lever Controller Assembly



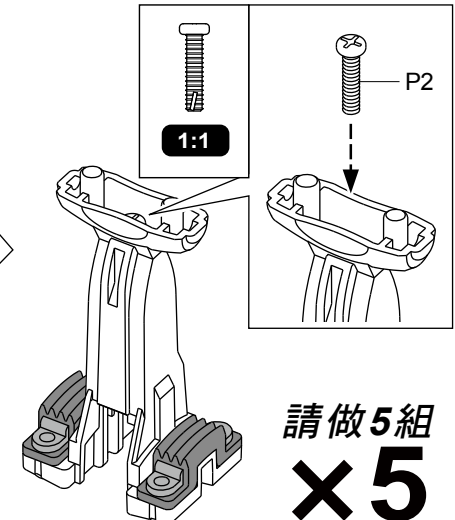
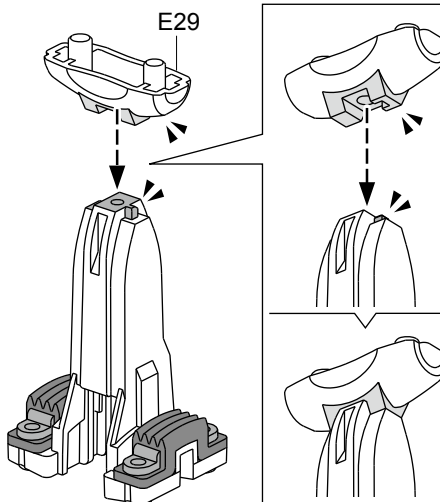
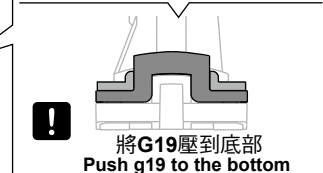
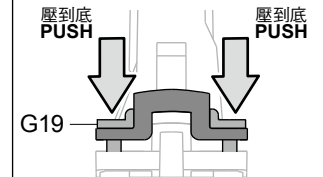
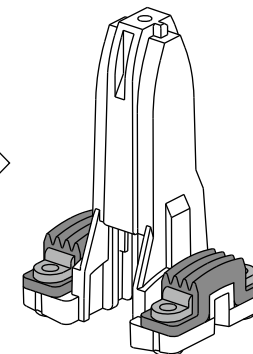
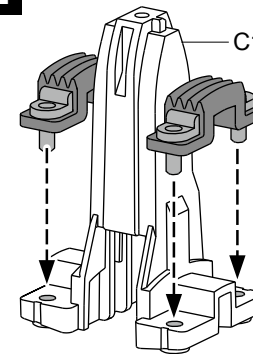
非常重要! P5 墊片必須乾淨不能沾到油, 組裝前請注意手是乾淨且P5是乾燥的
Very Important! P5 (Brake Pad) must be clean and not stained by oil.
 Make sure to hand clean and dry P5 before assembly.

1



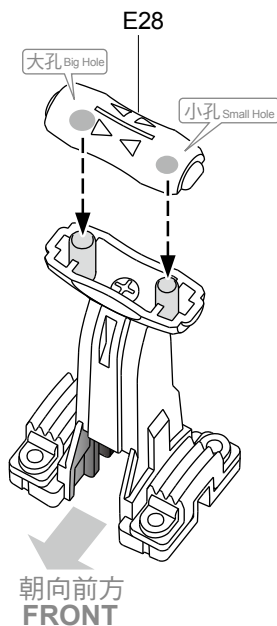
請做10組
×10

2

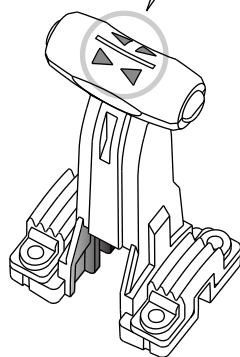


請做5組
×5

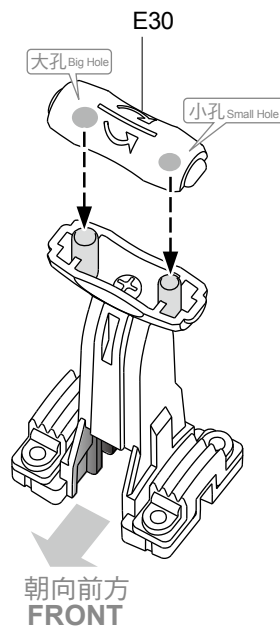
3



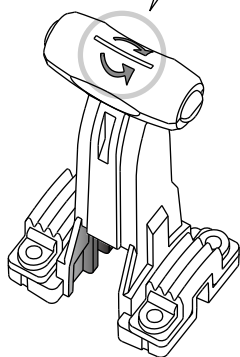
操縱桿 1
Lever Controller 1



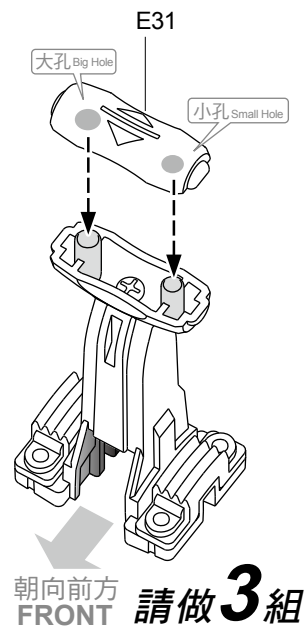
4



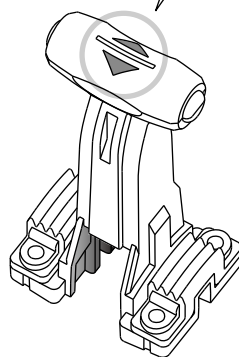
操縱桿 2
Lever Controller 2



5



操縱桿 3.4.5
Lever Controller 3.4.5

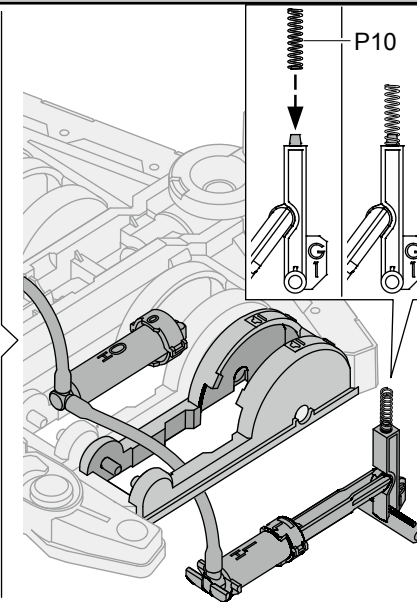
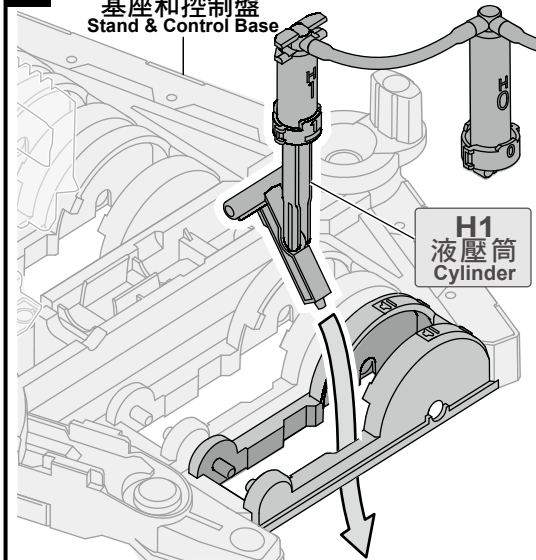


控制盤與液壓筒模組組裝 Control Module Assembly

單元 1：H0, H1 液壓筒與操縱桿 1 Unit 1: H0, H1 Cylinder & Lever Controller 1

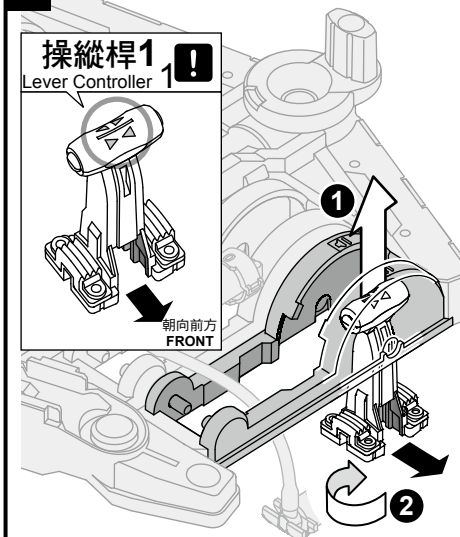
1

基座和控制盤
Stand & Control Base

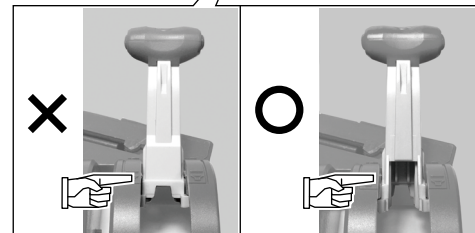
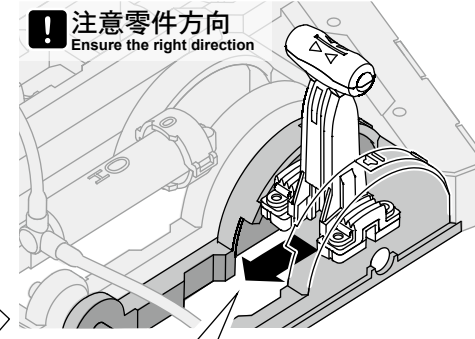


2

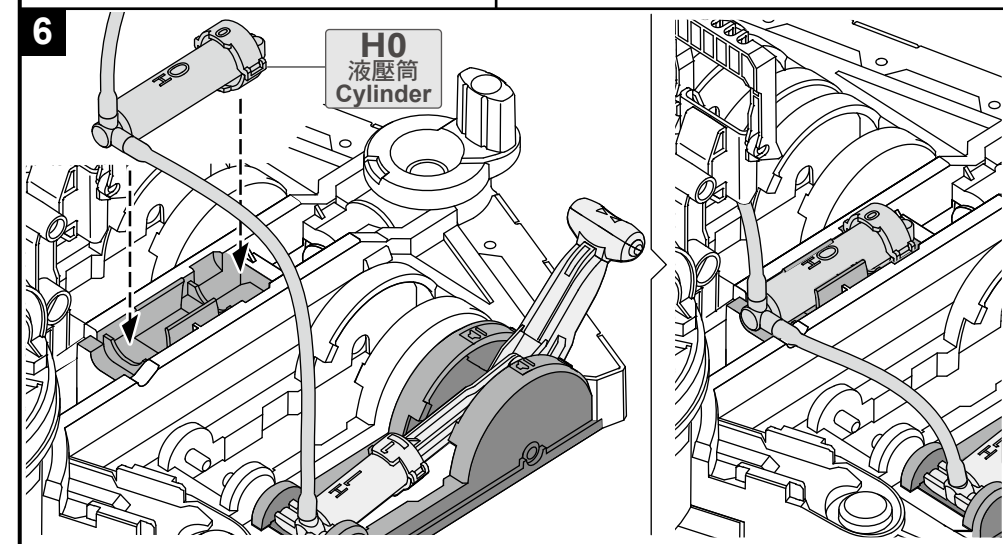
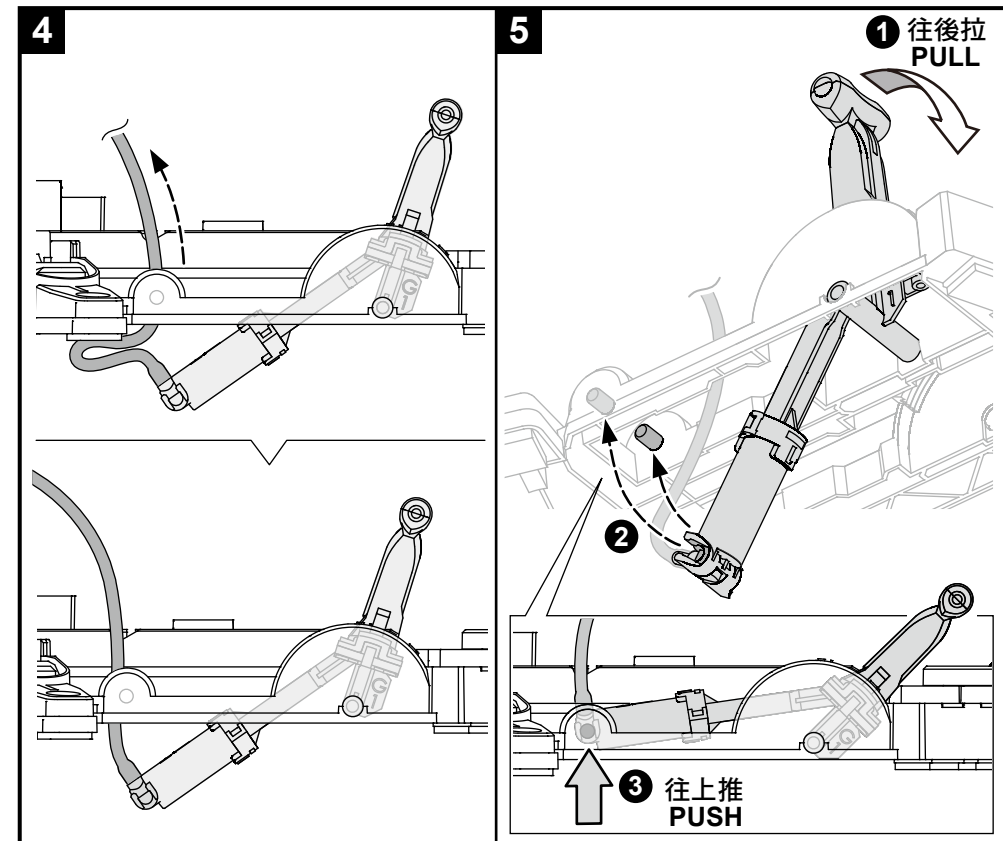
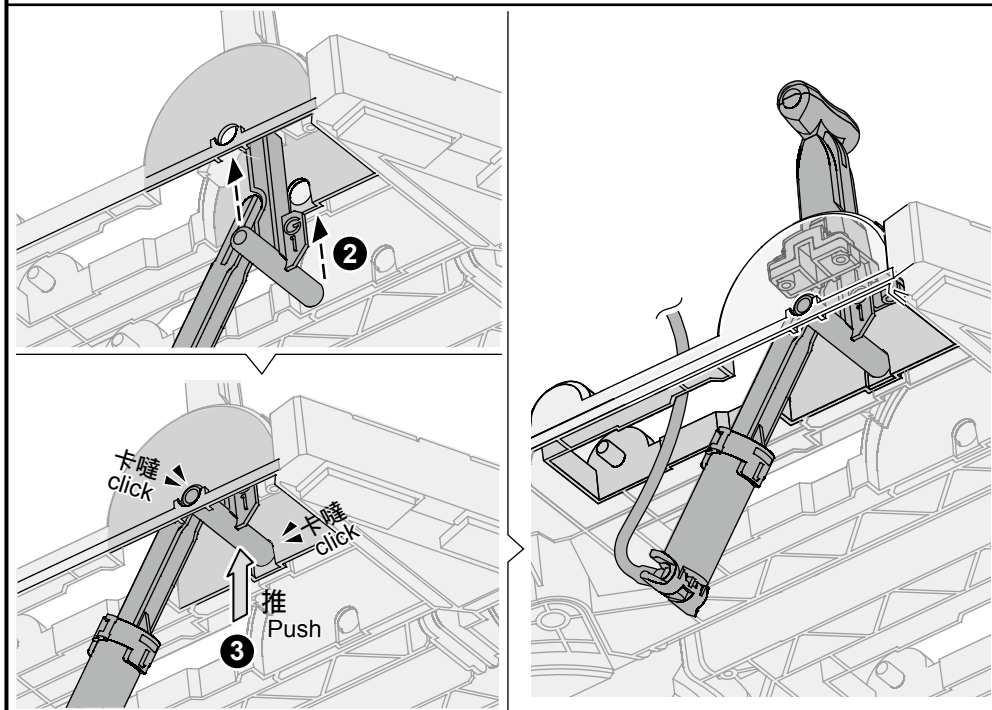
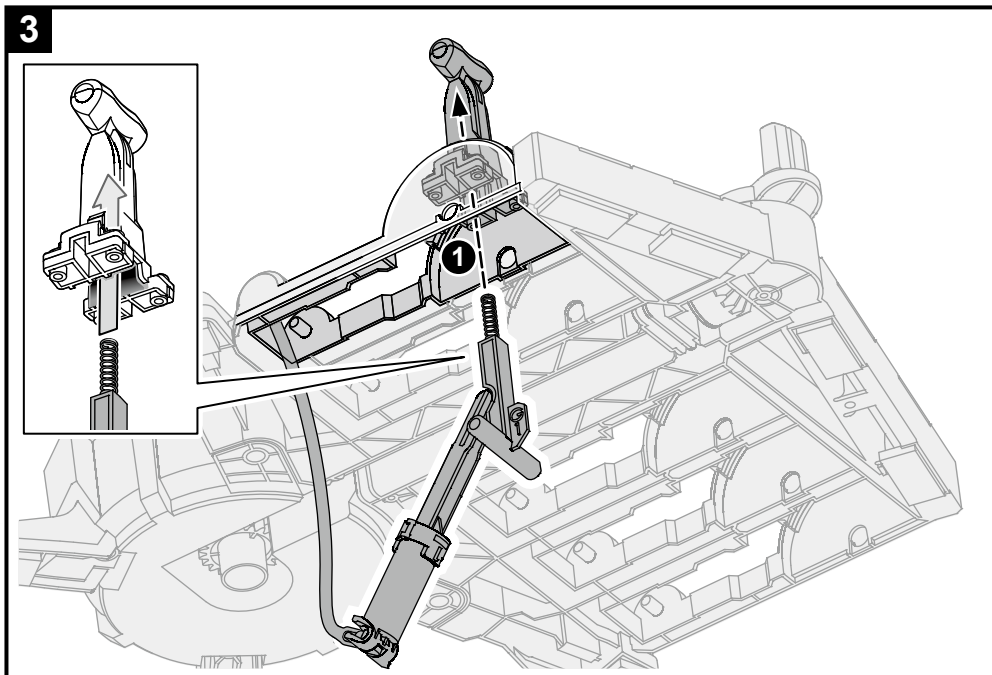
操縱桿 1
Lever Controller 1



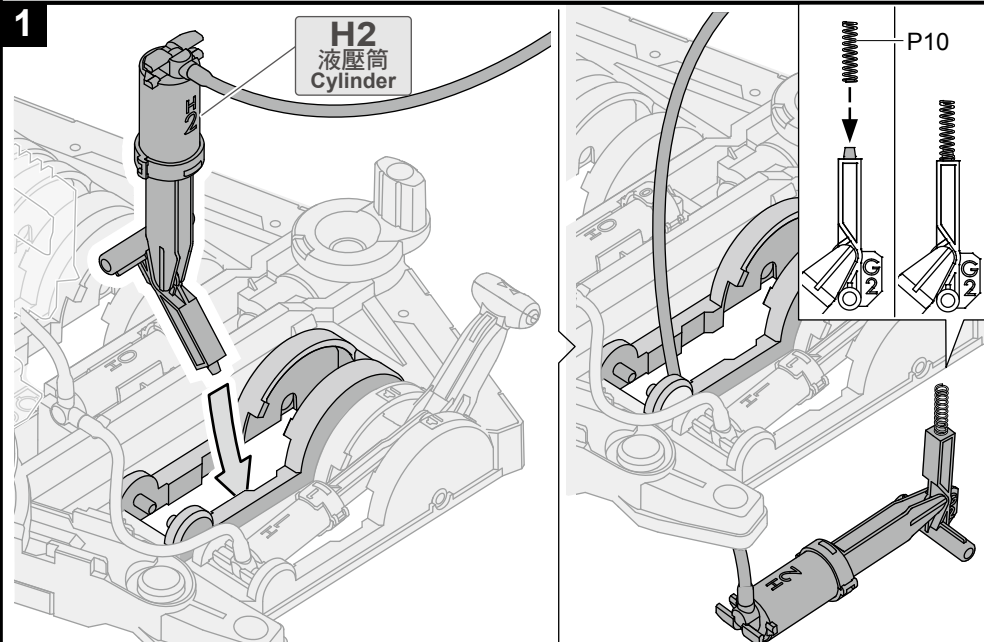
注意零件方向
Ensure the right direction



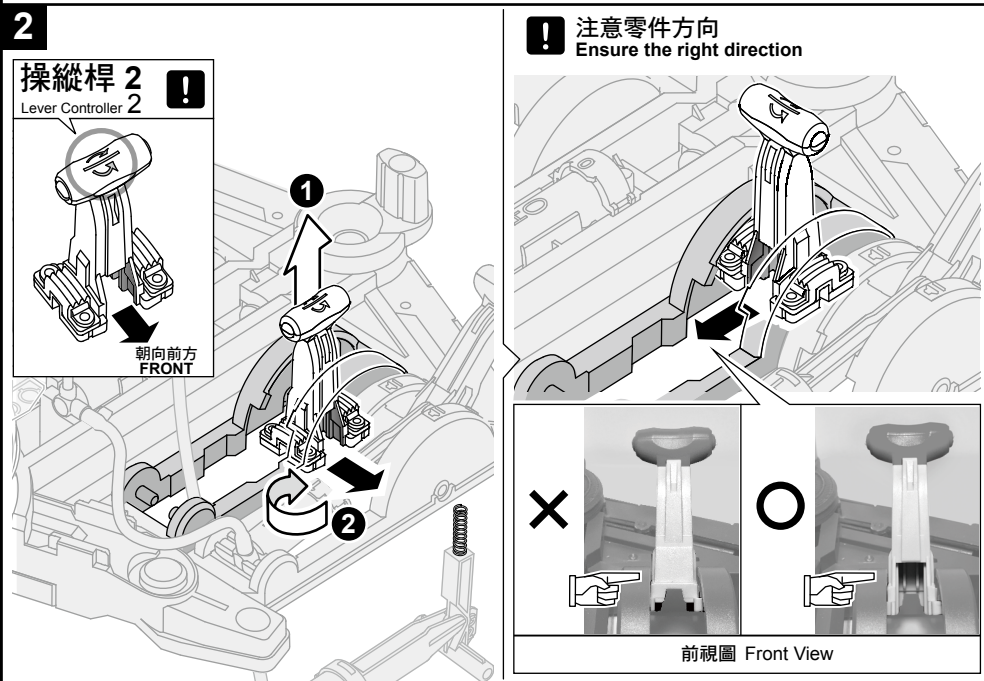
前視圖 Front View



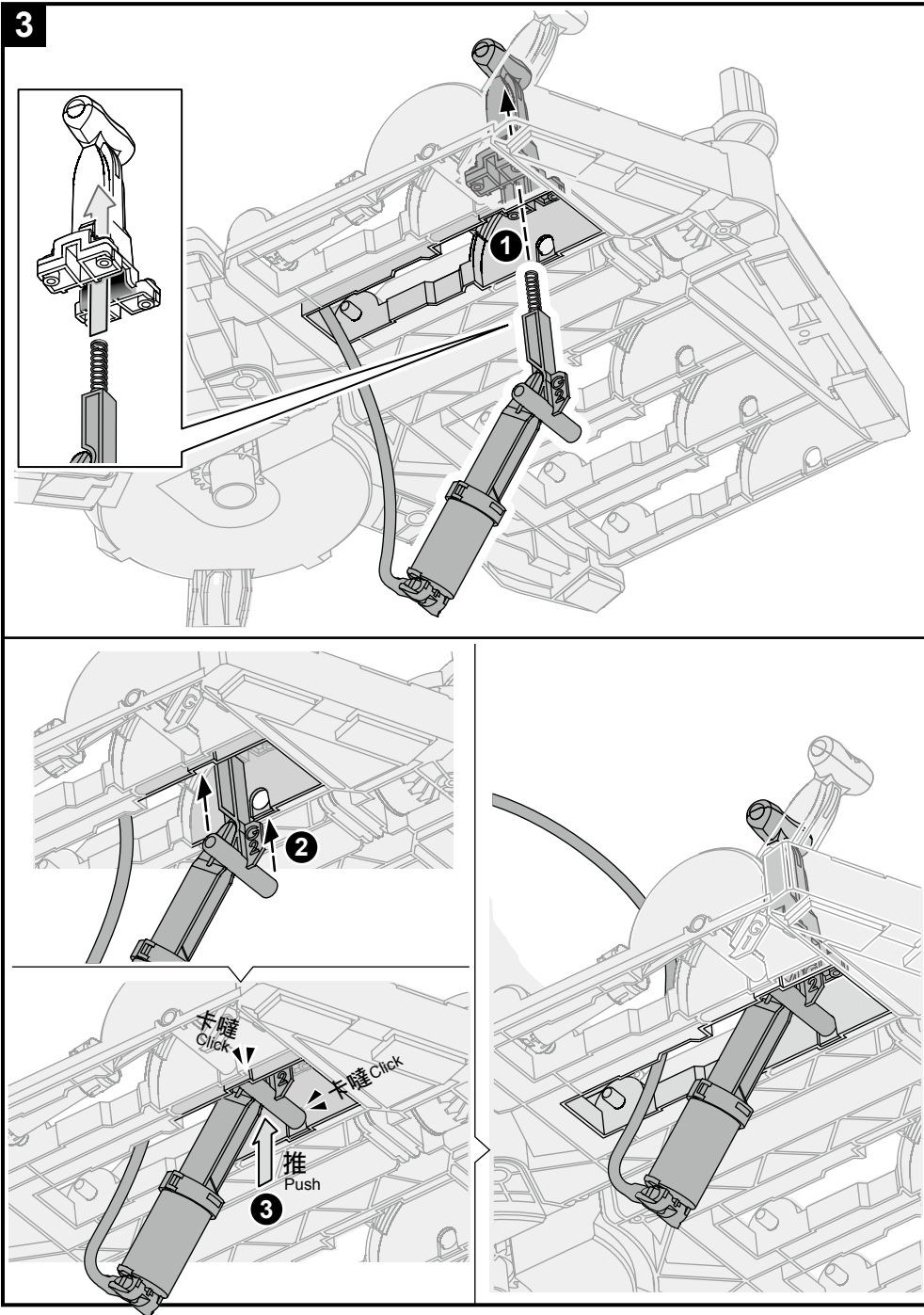
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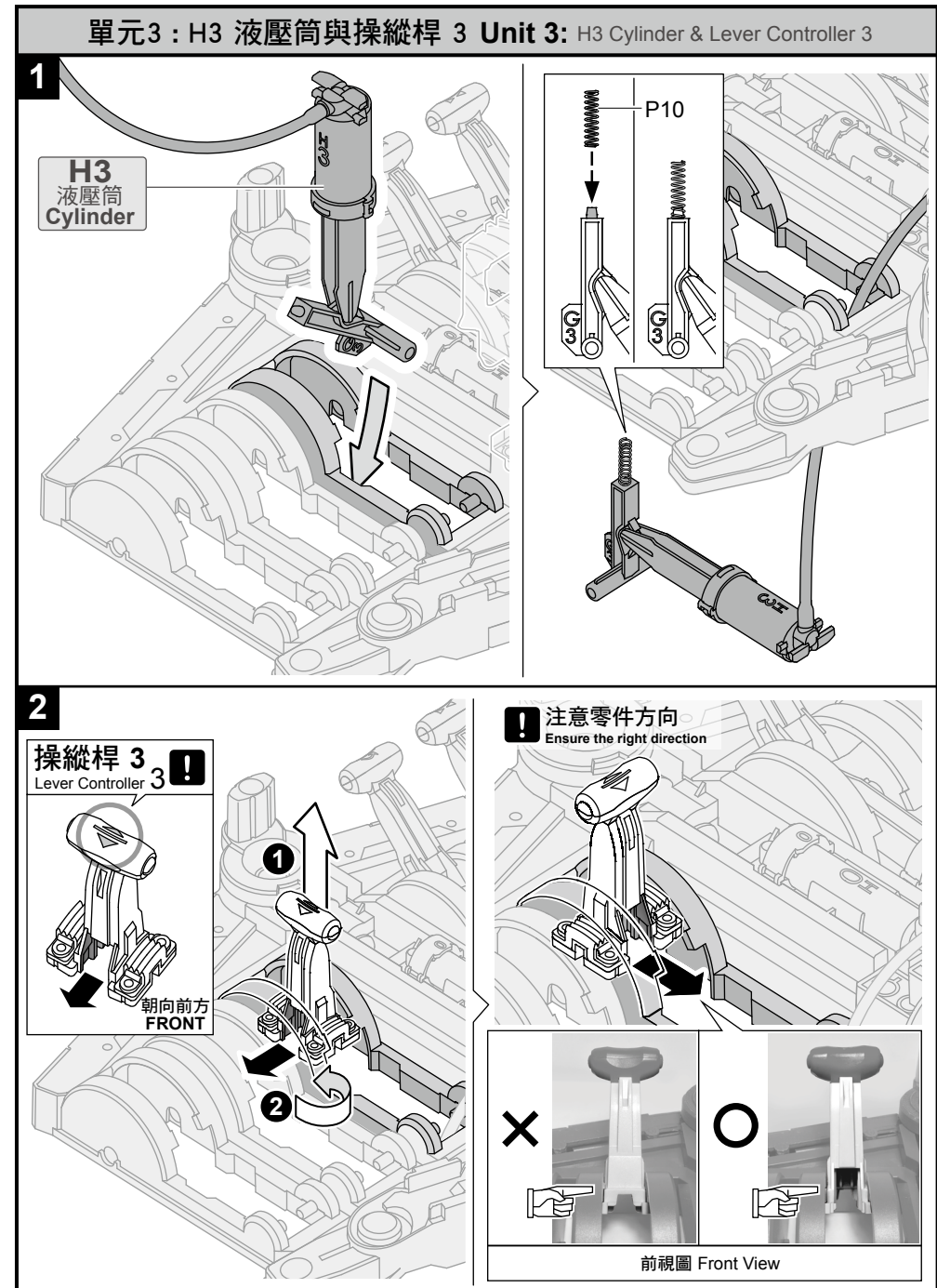
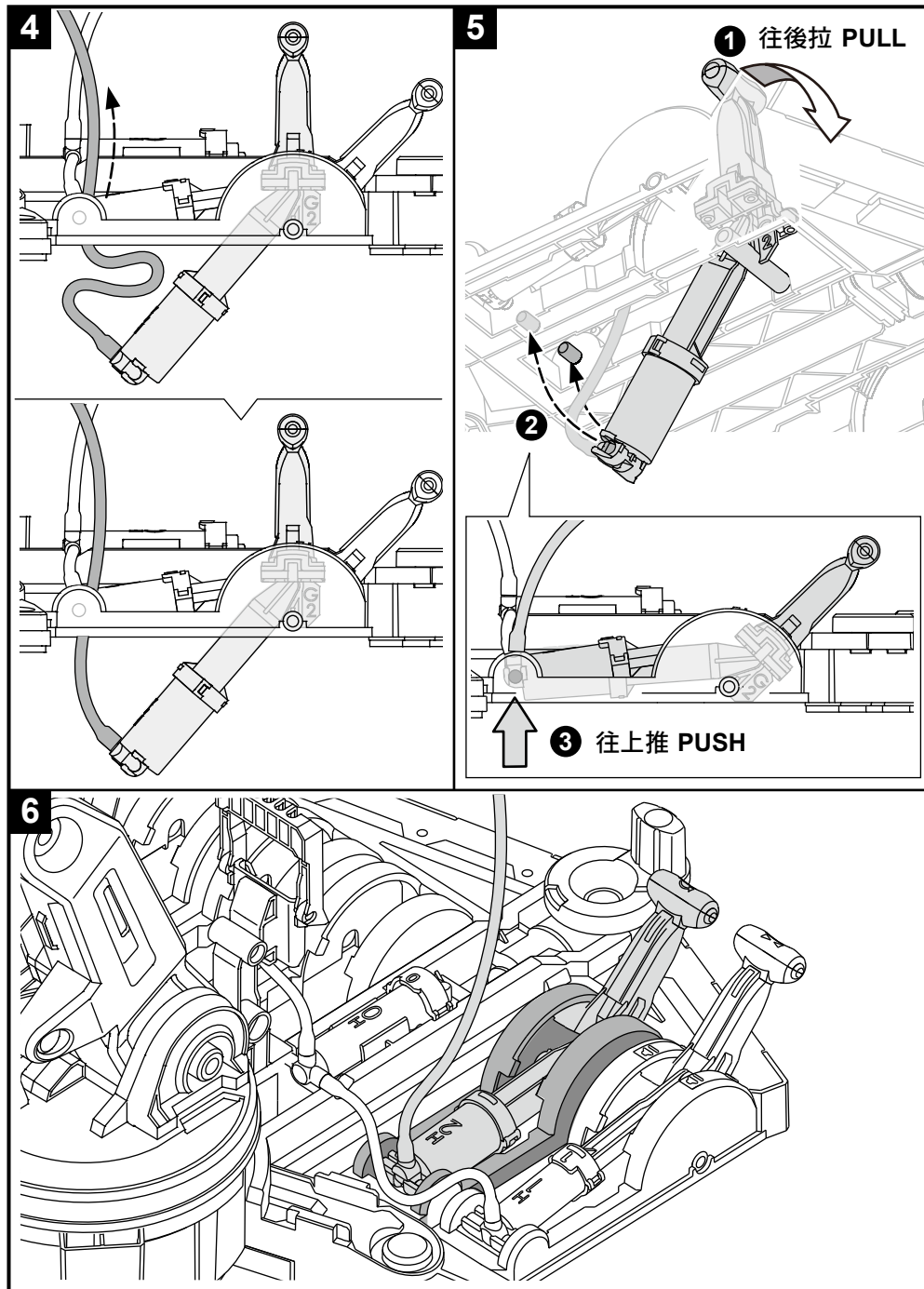


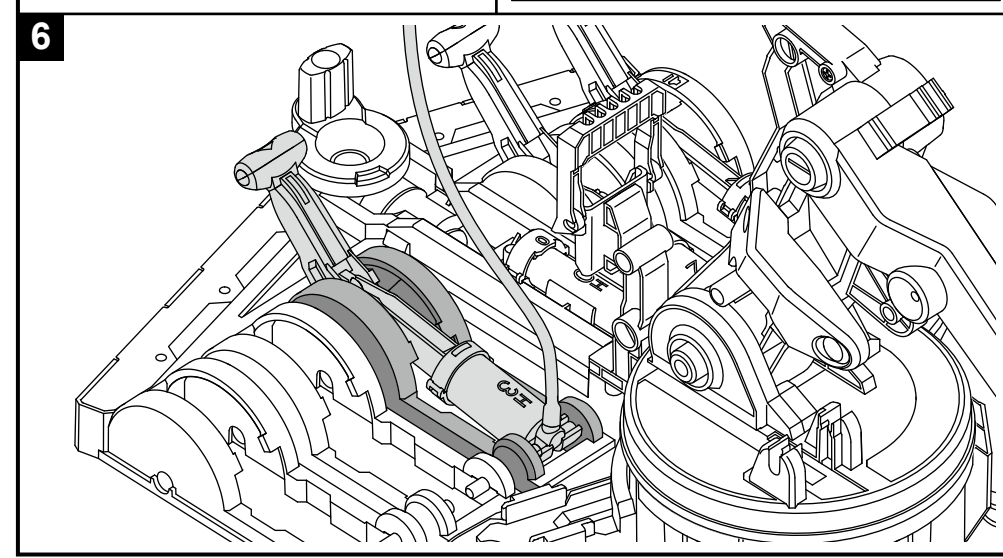
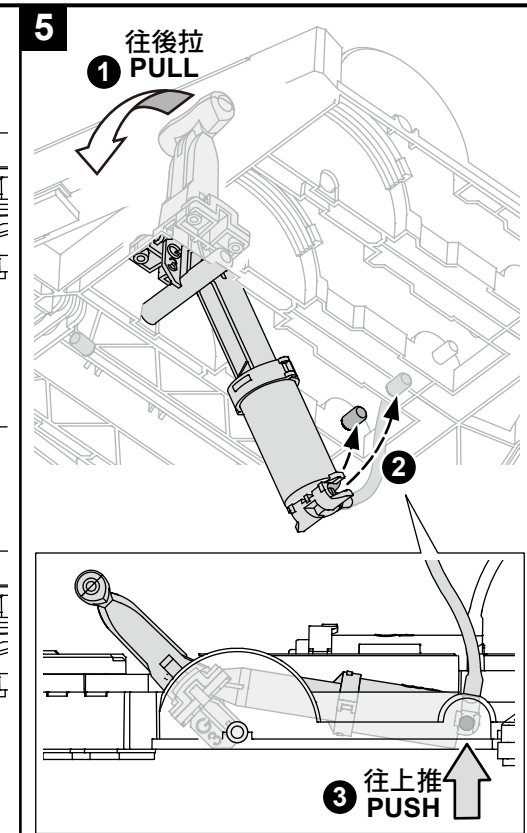
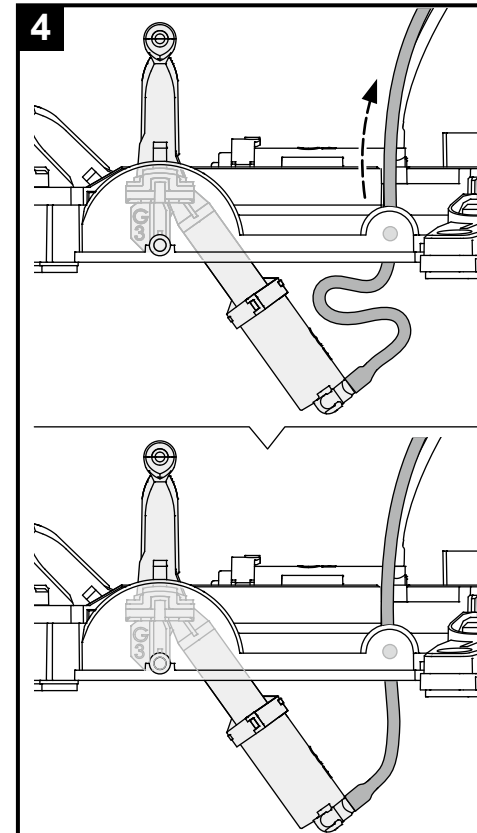
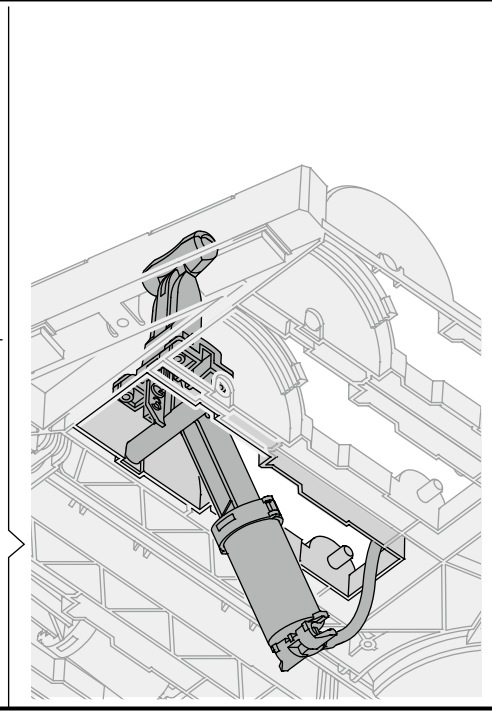
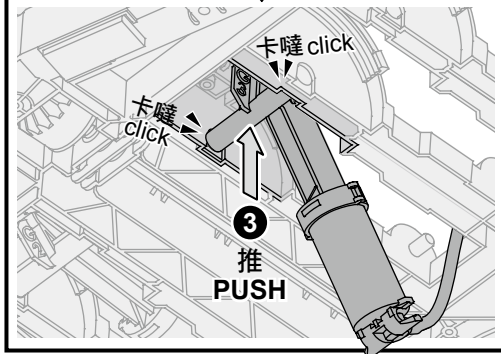
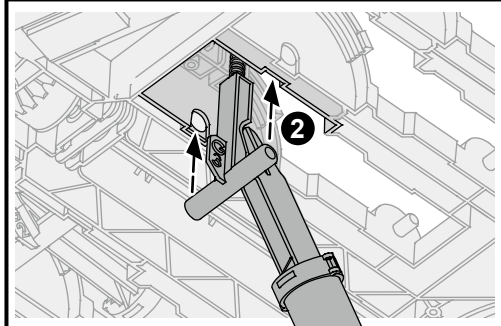
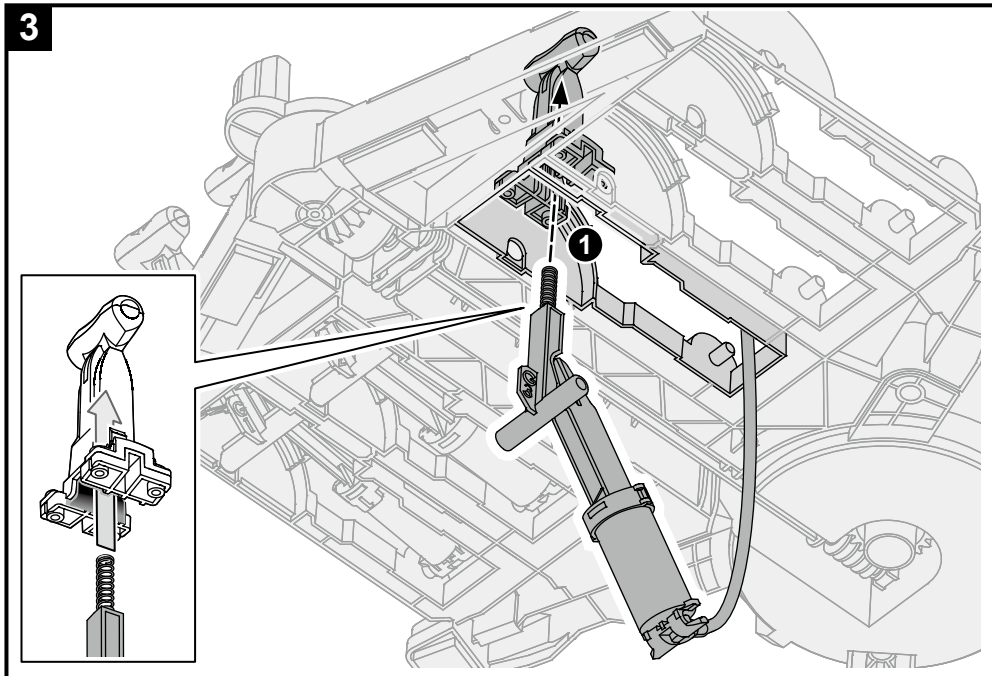
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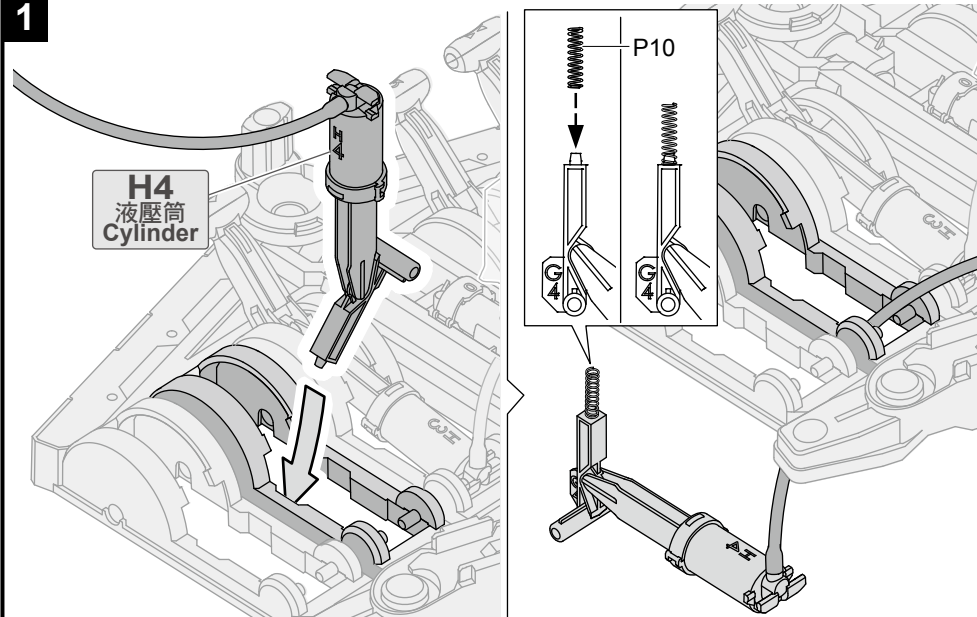
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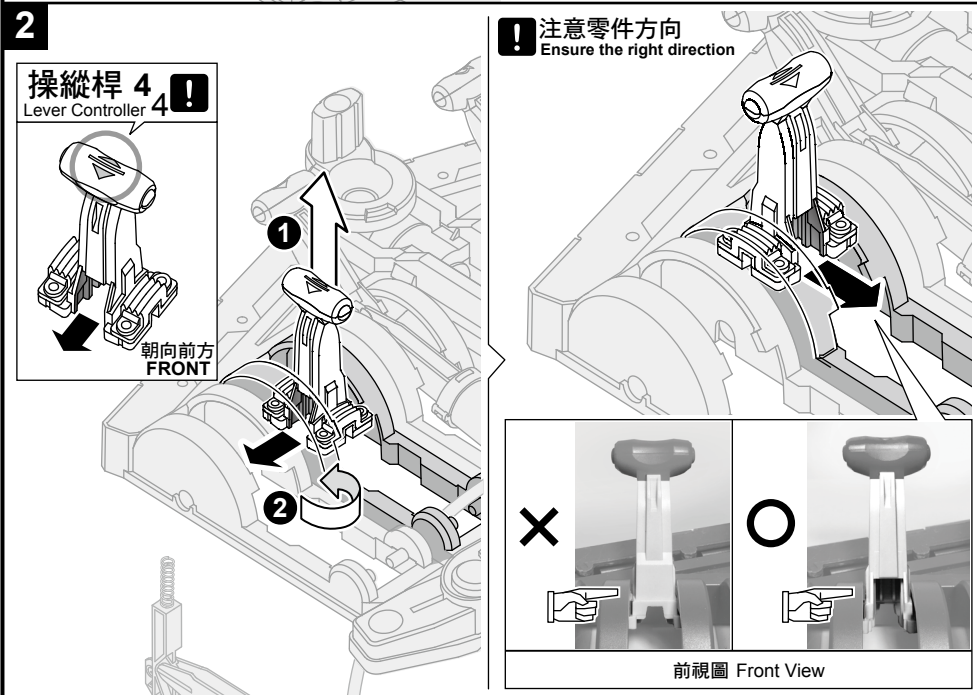




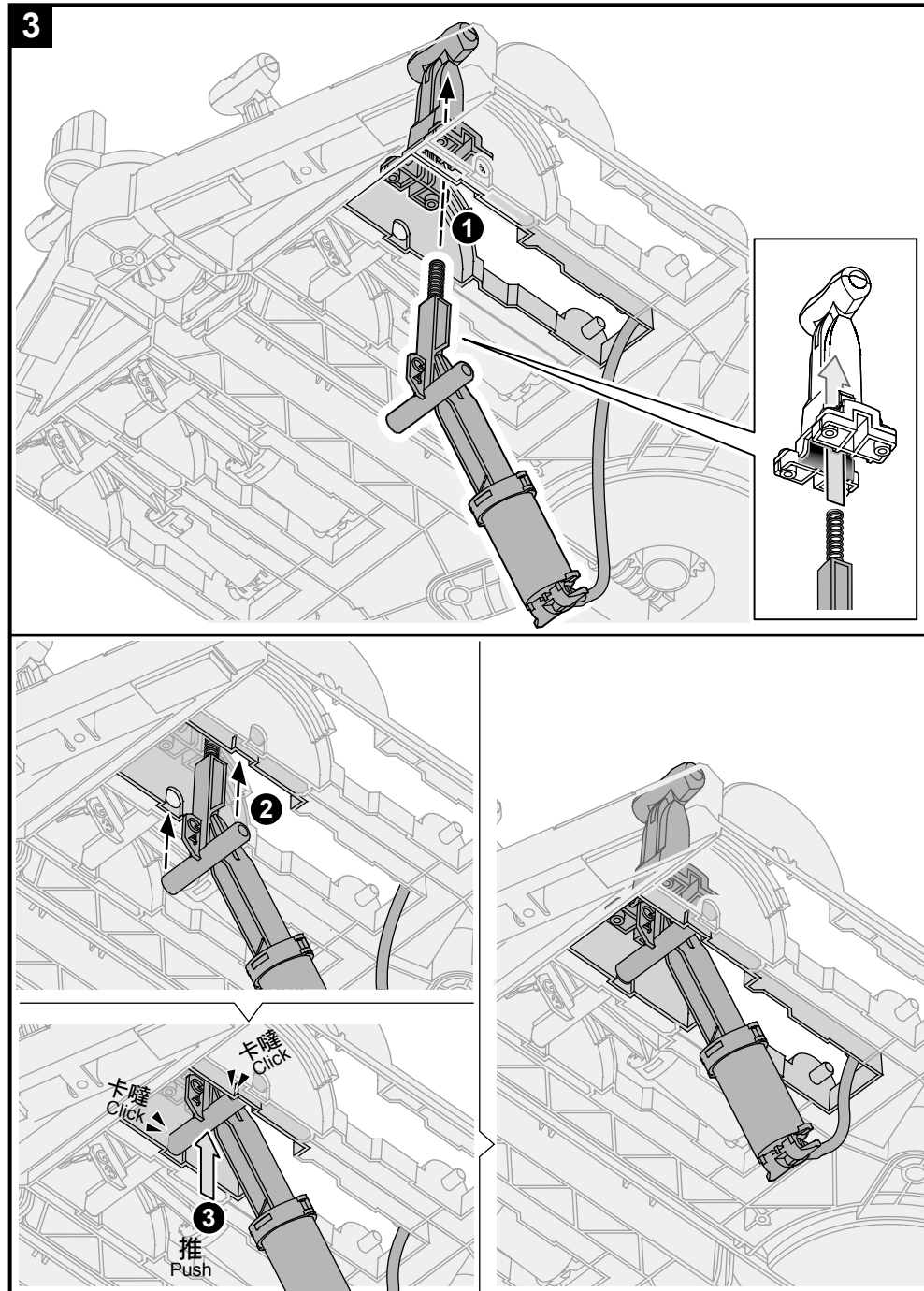
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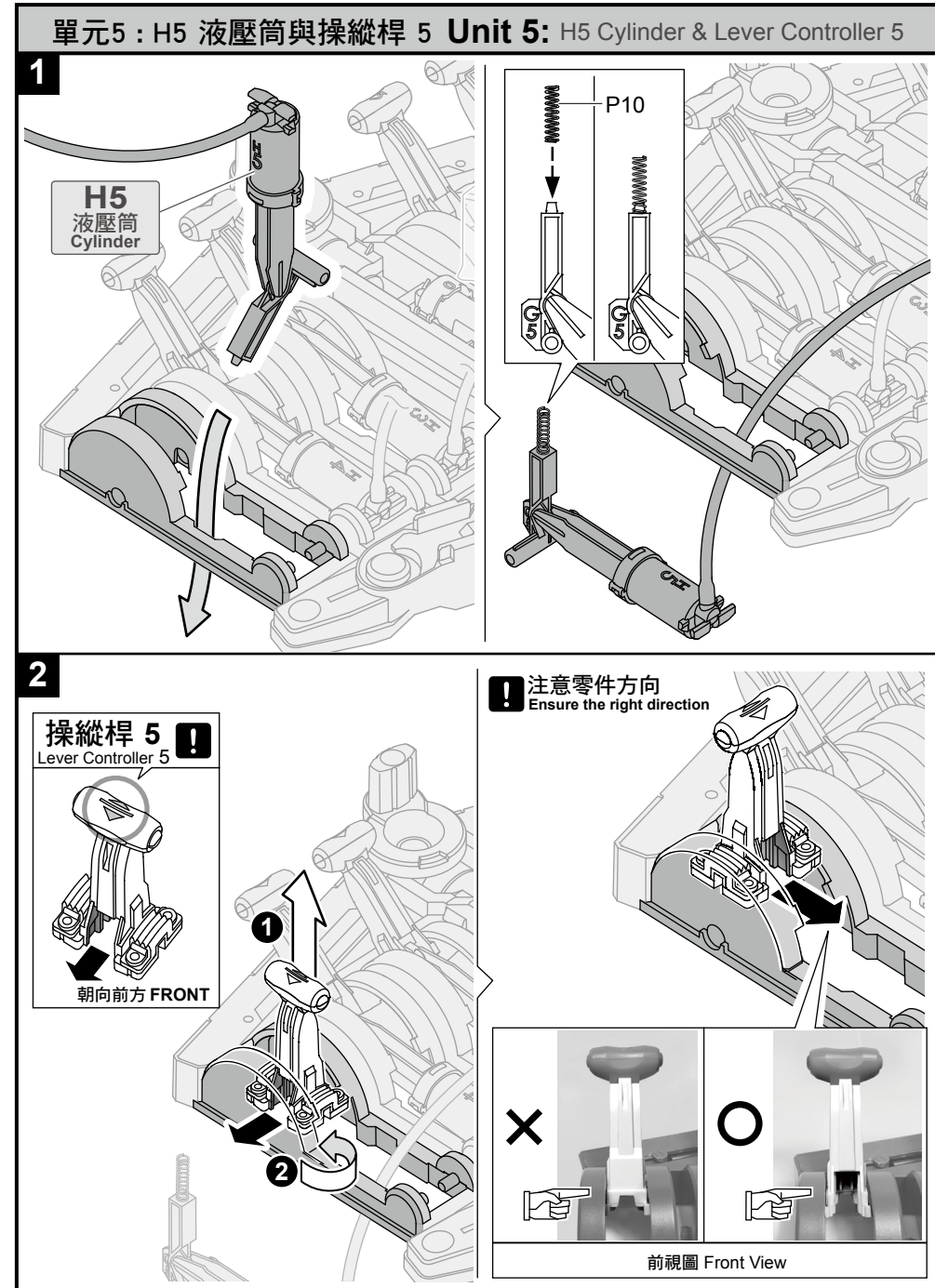
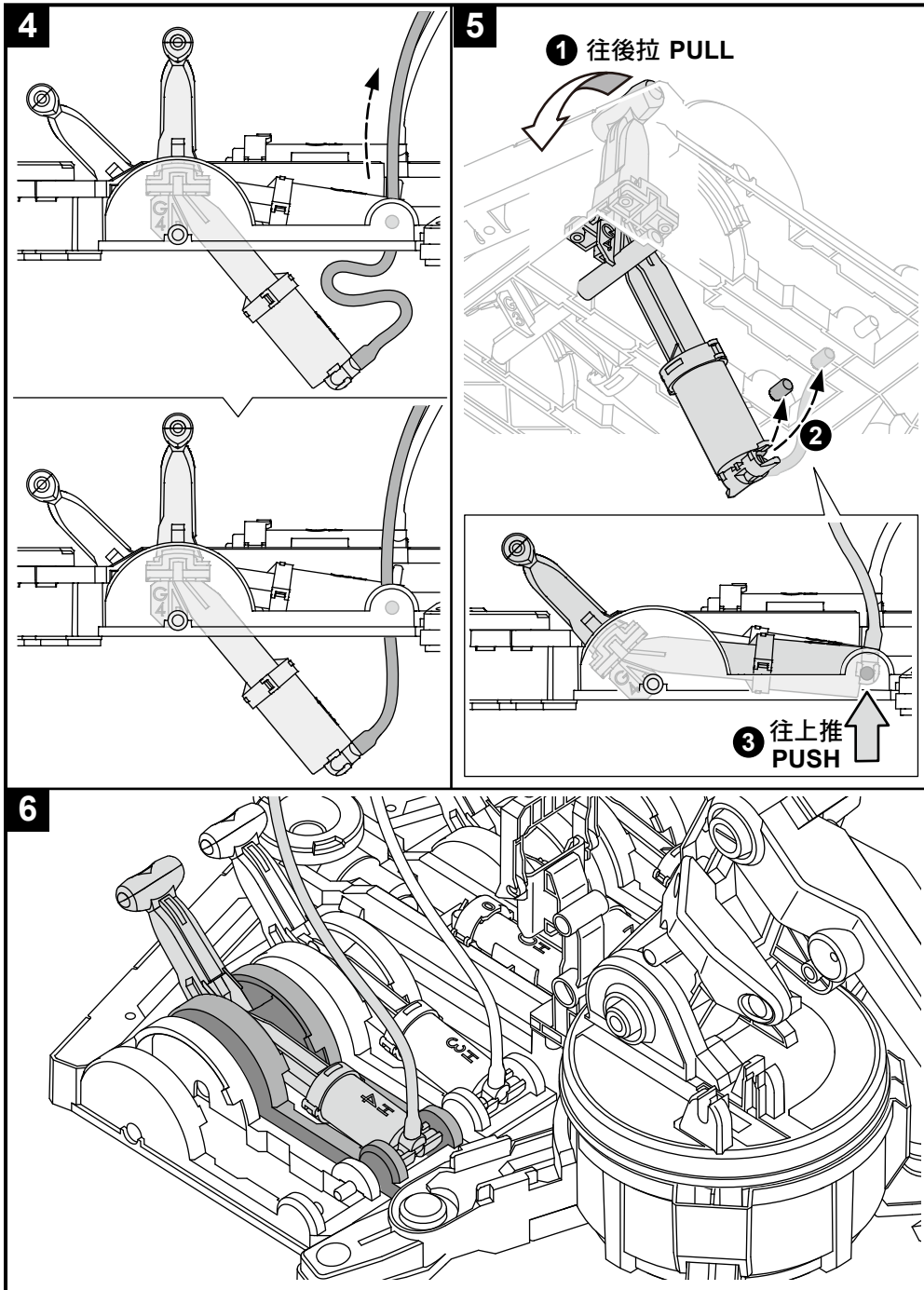


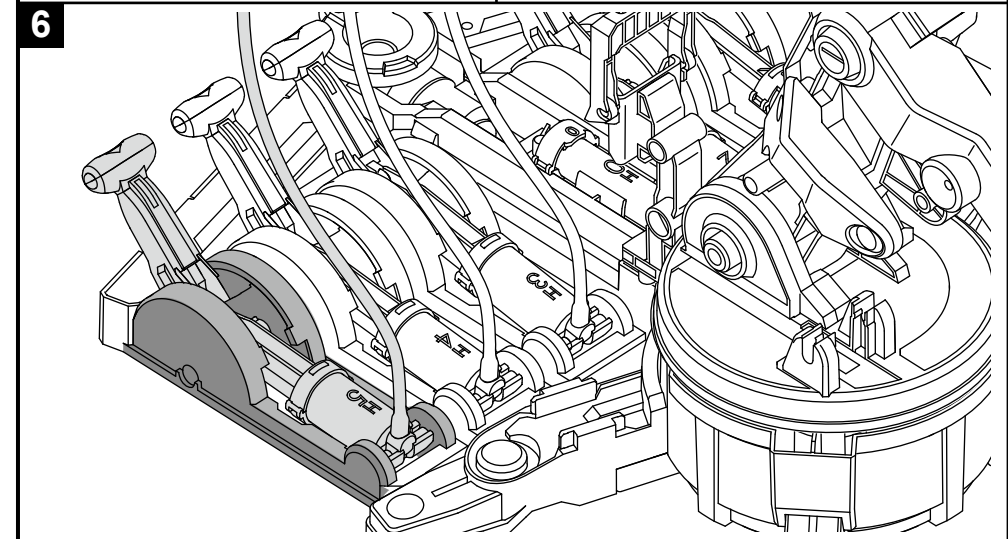
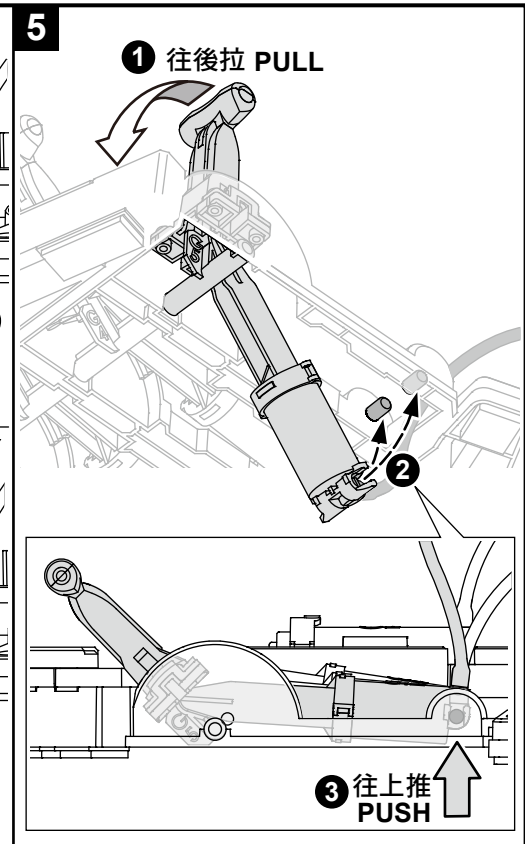
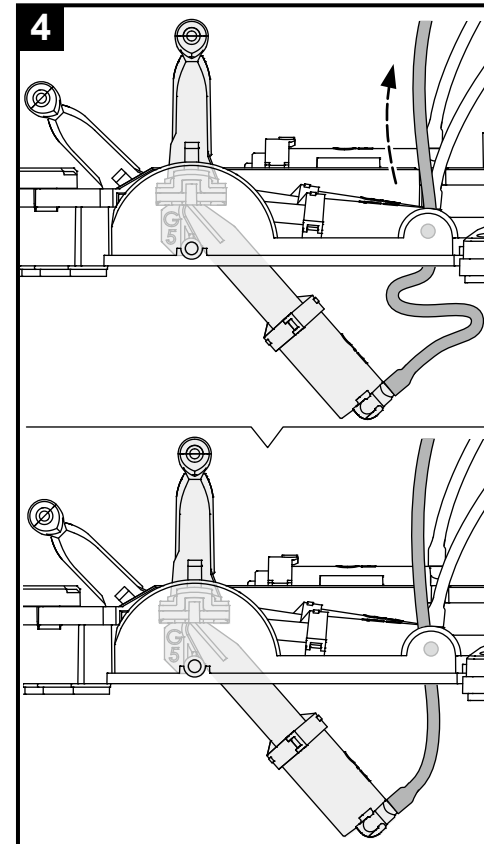
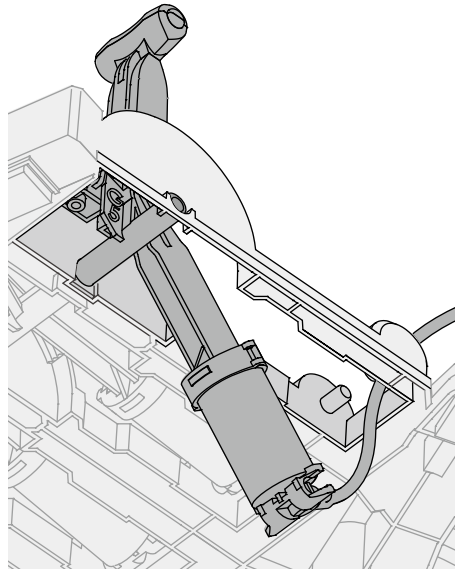
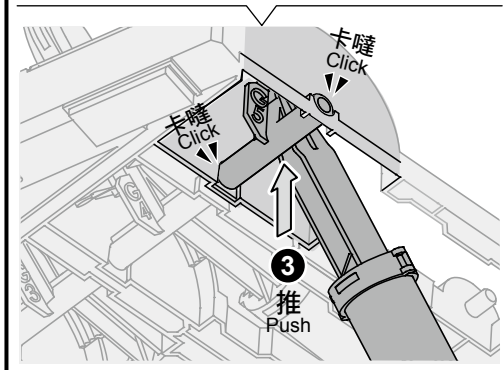
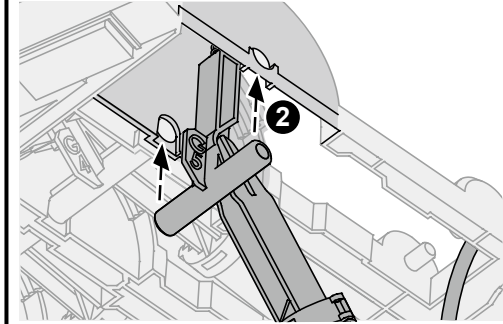
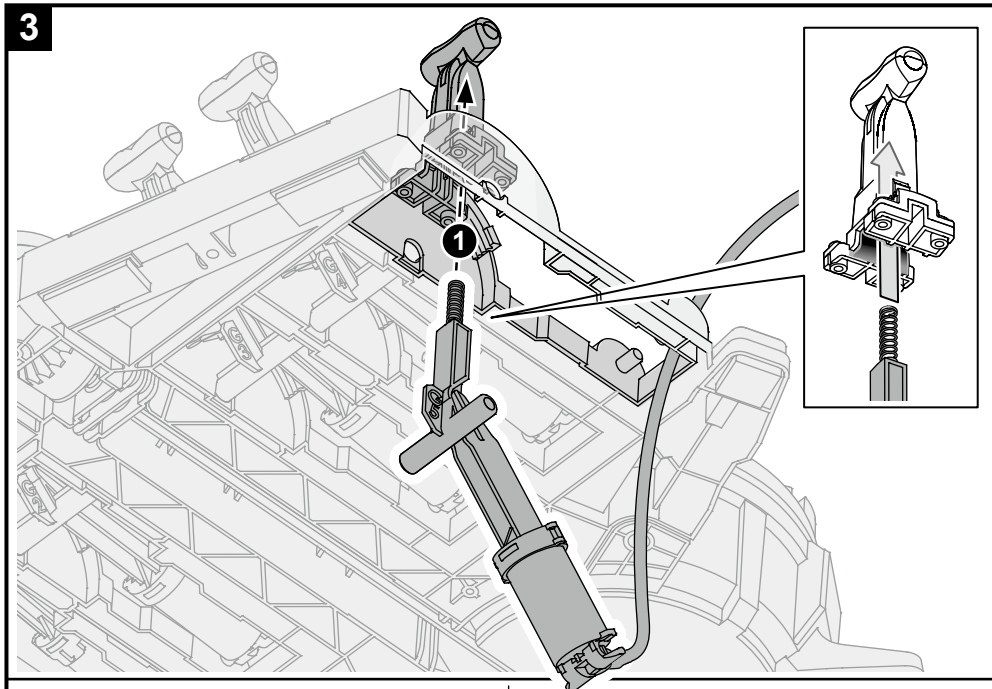
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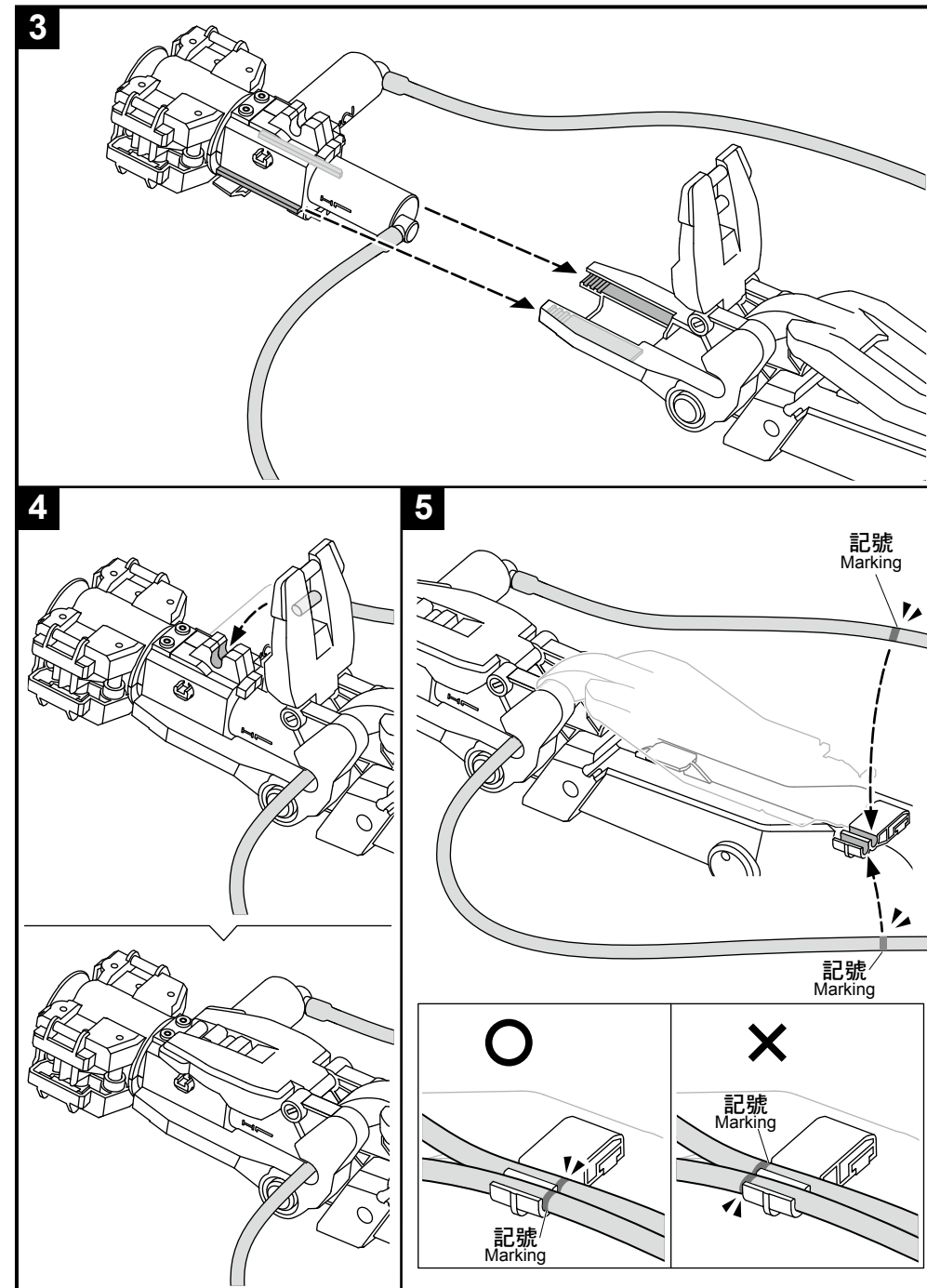
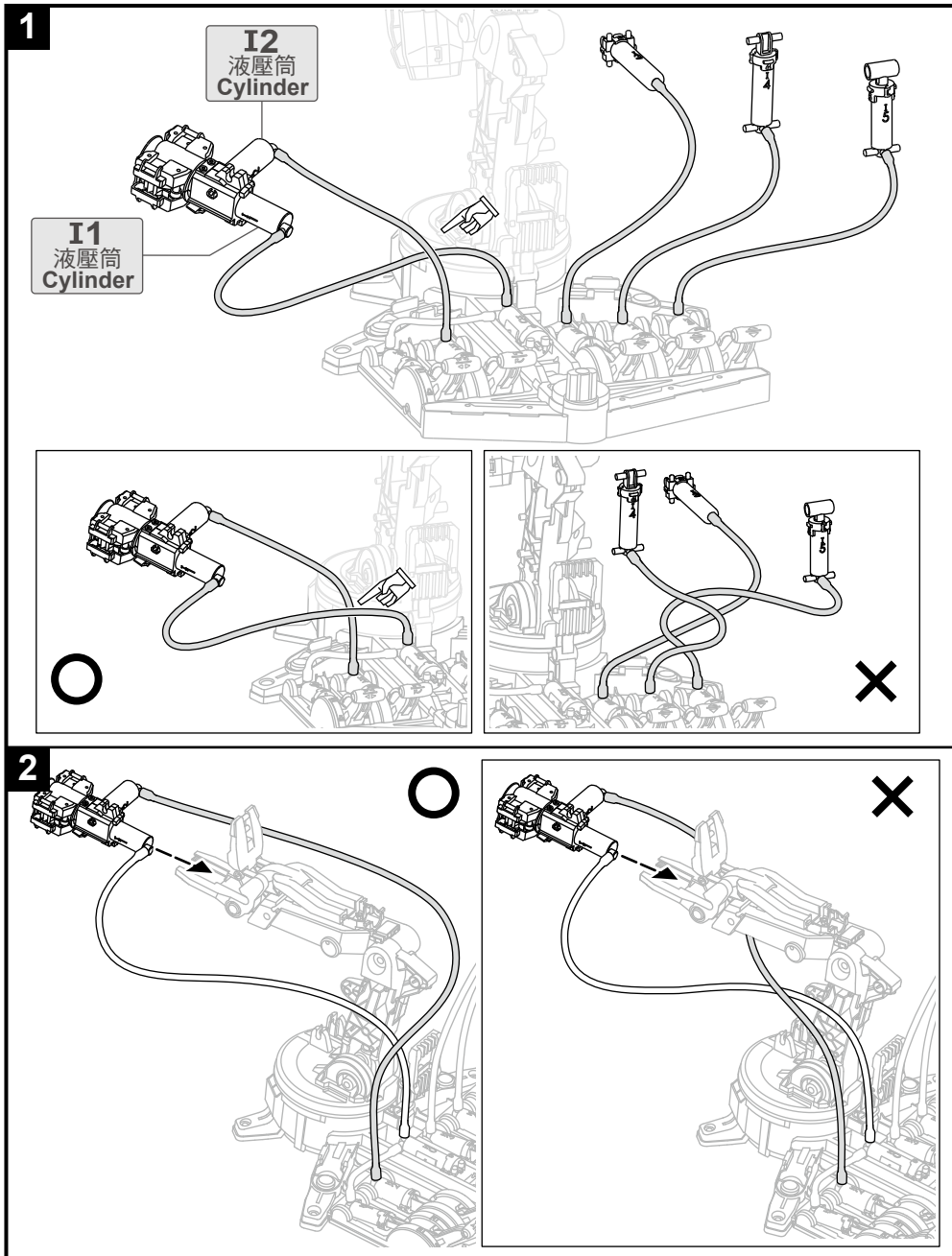
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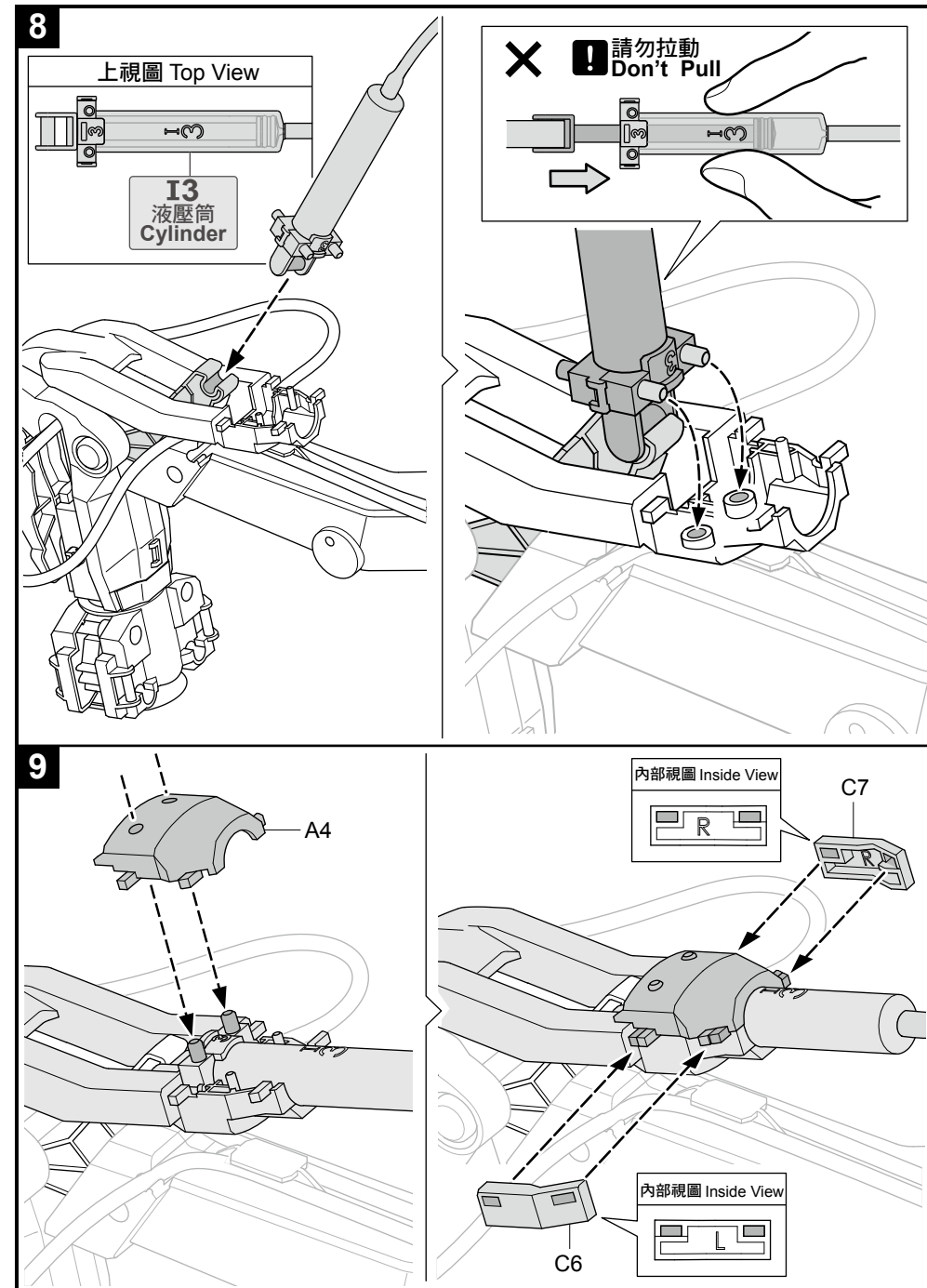
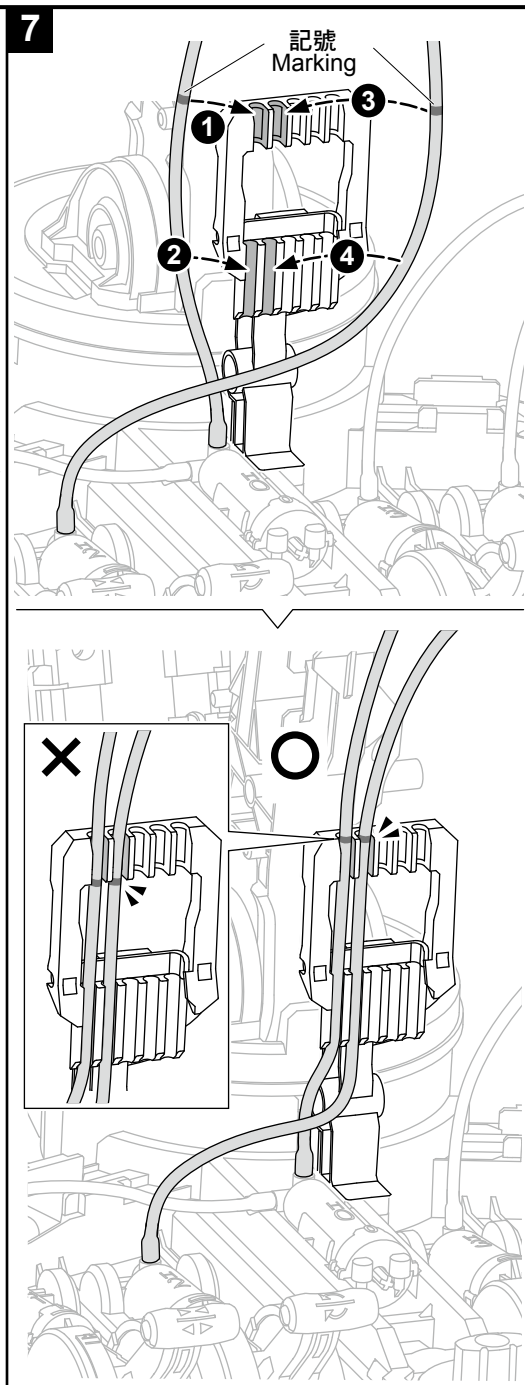
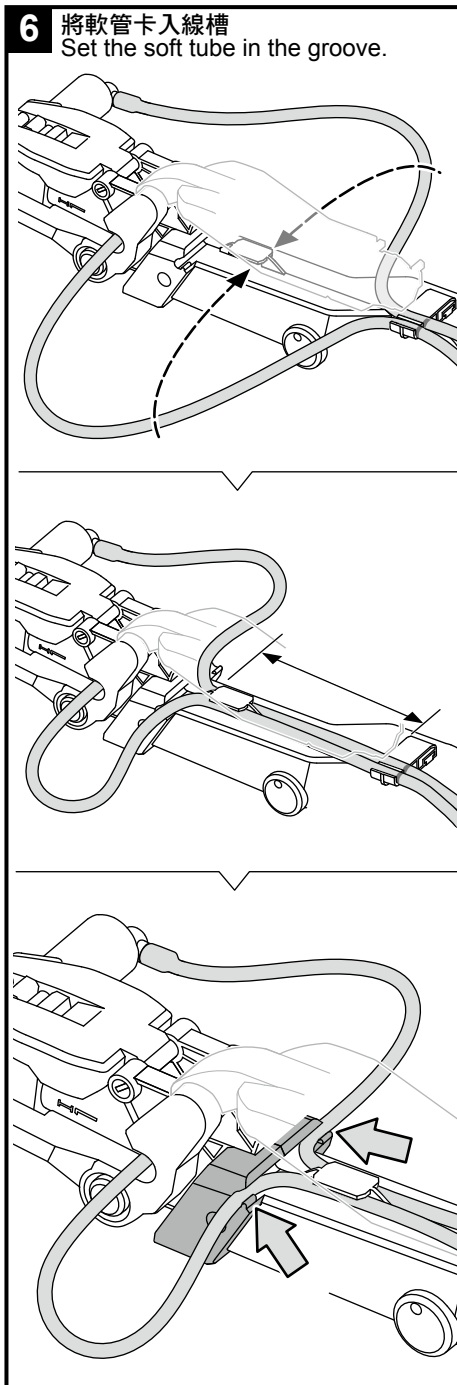


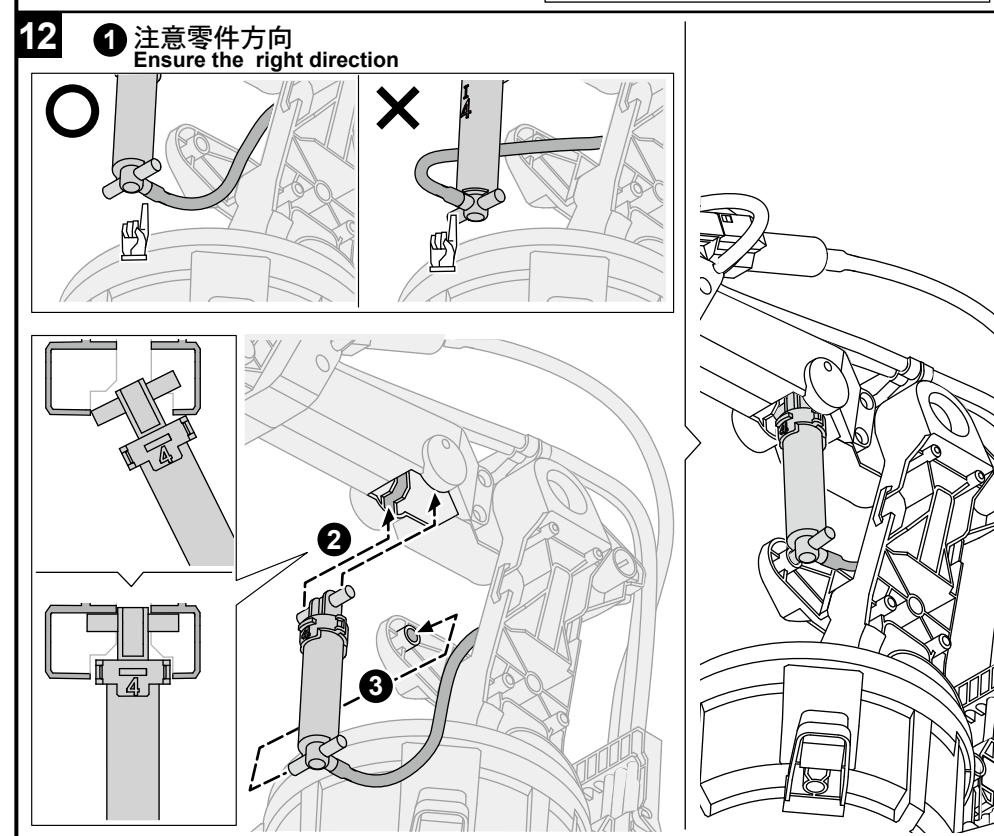
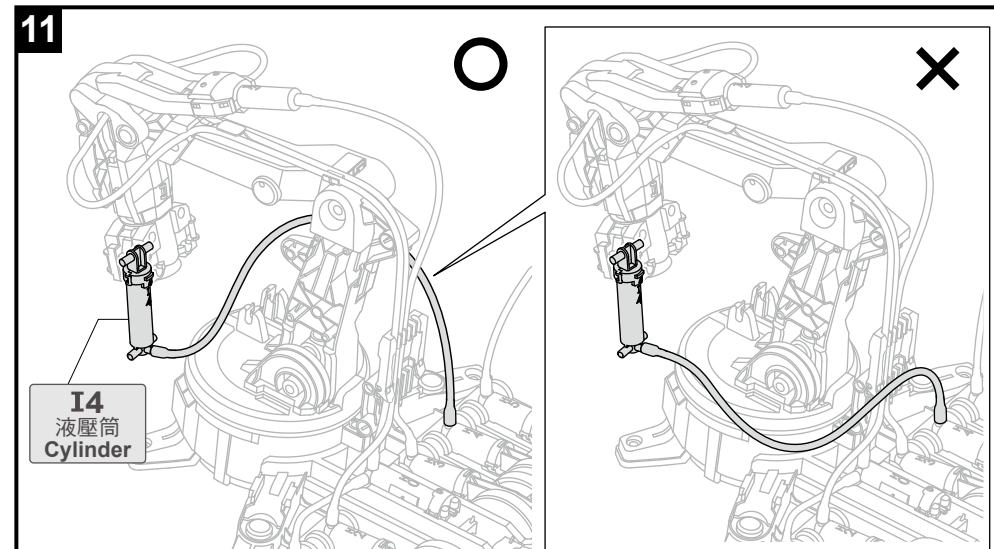
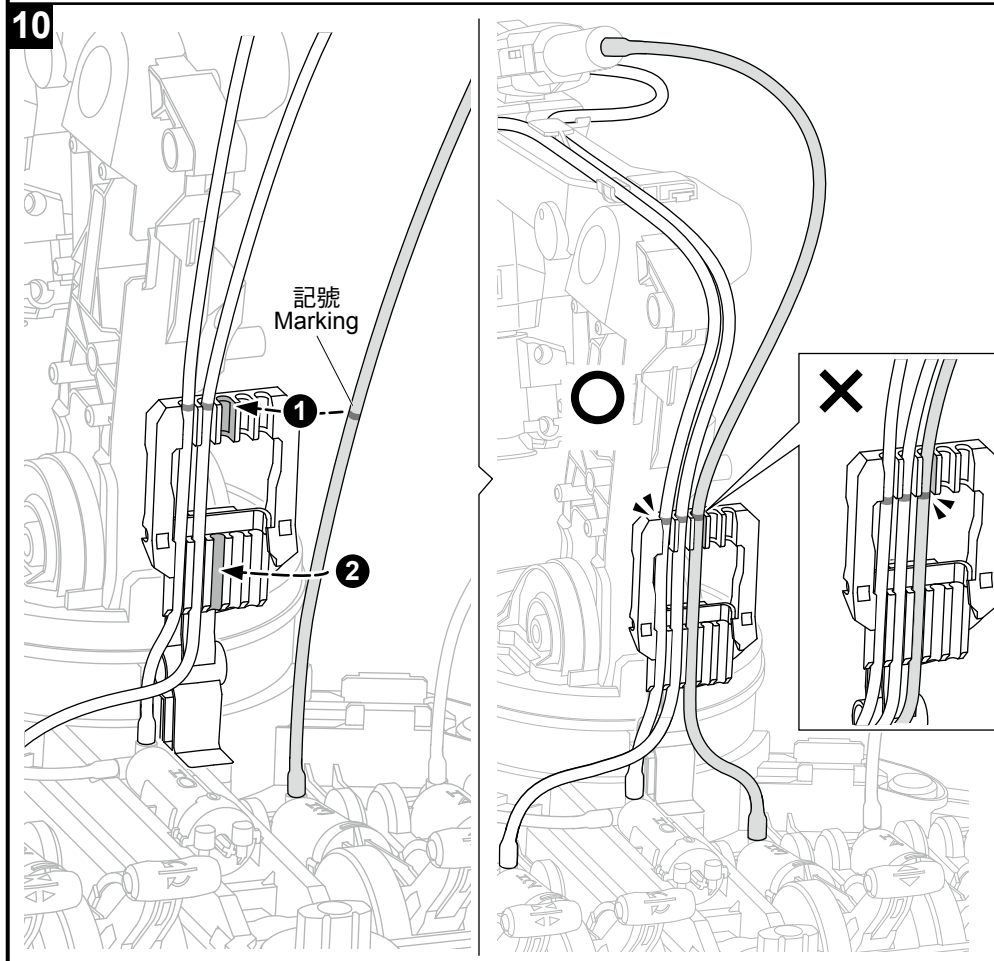
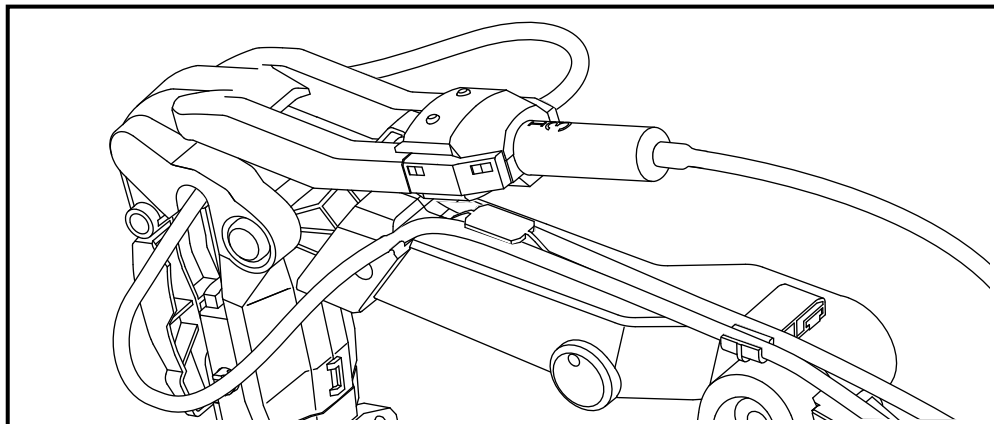


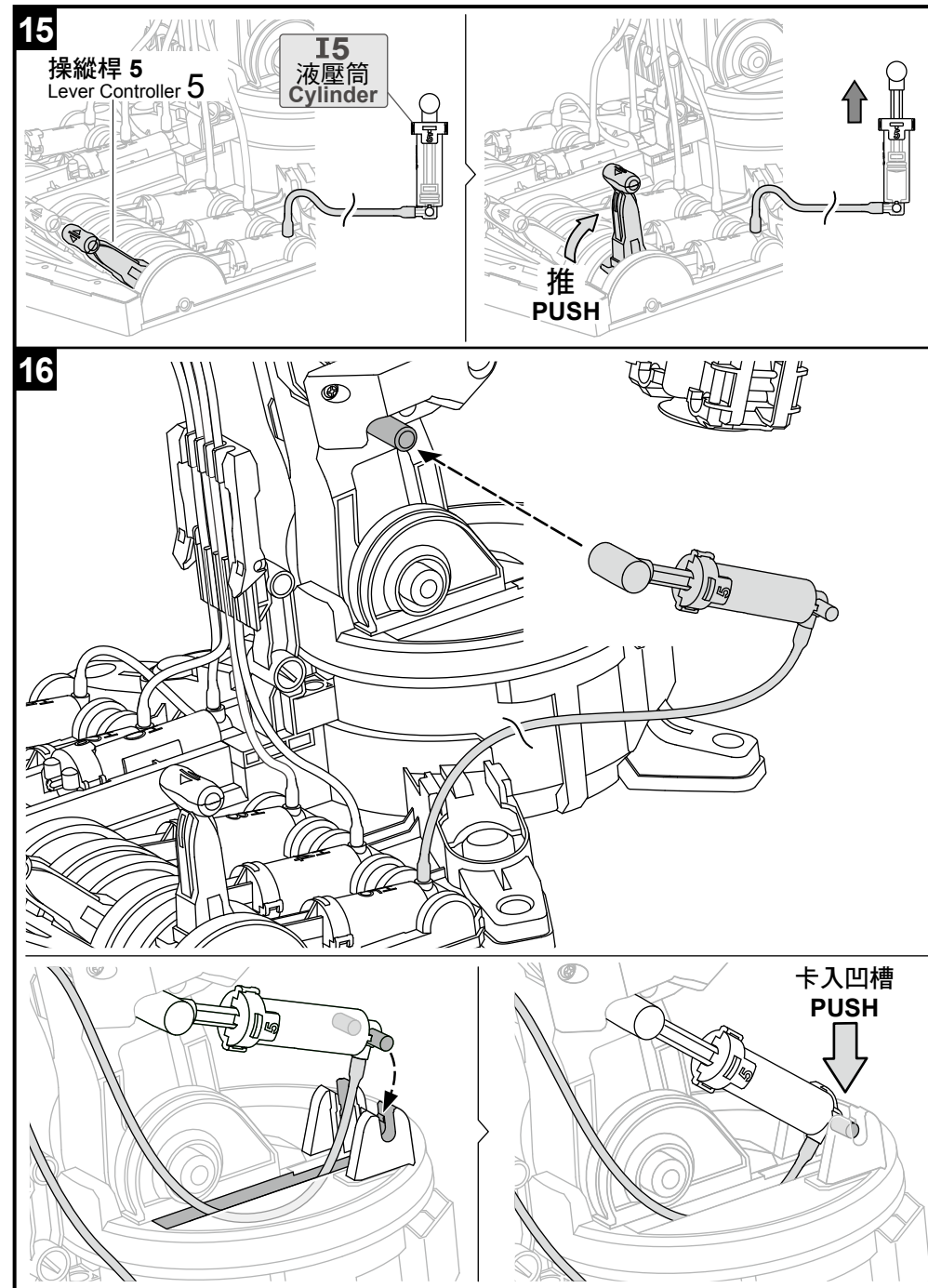
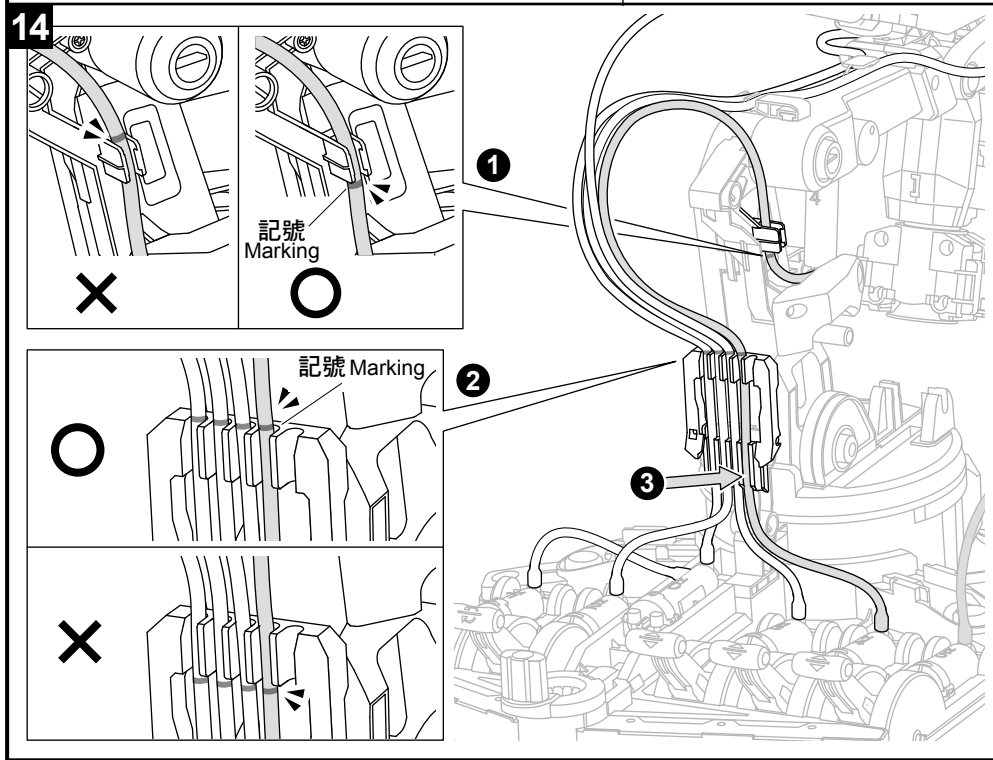
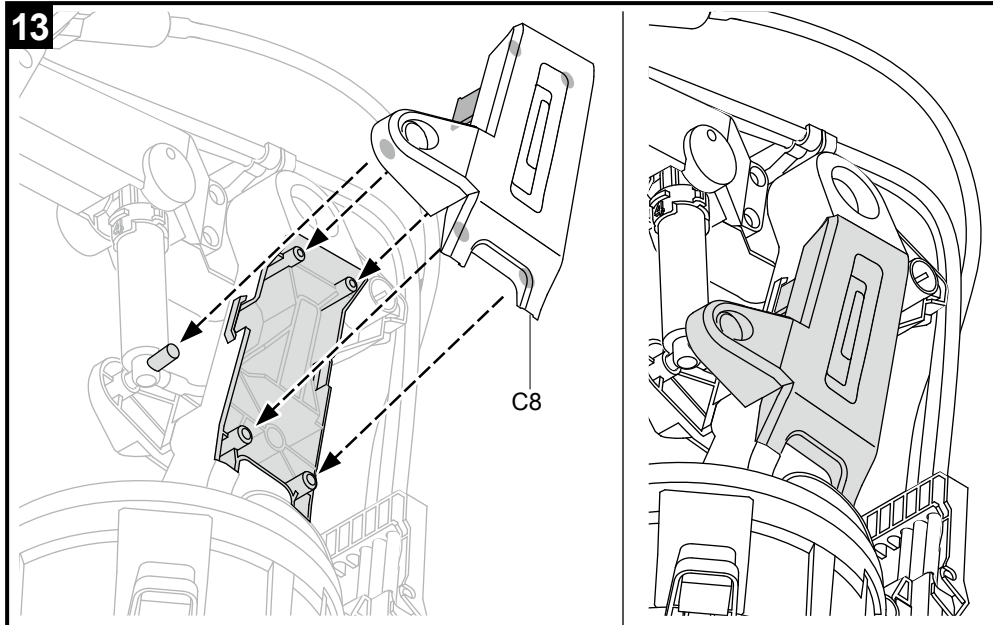


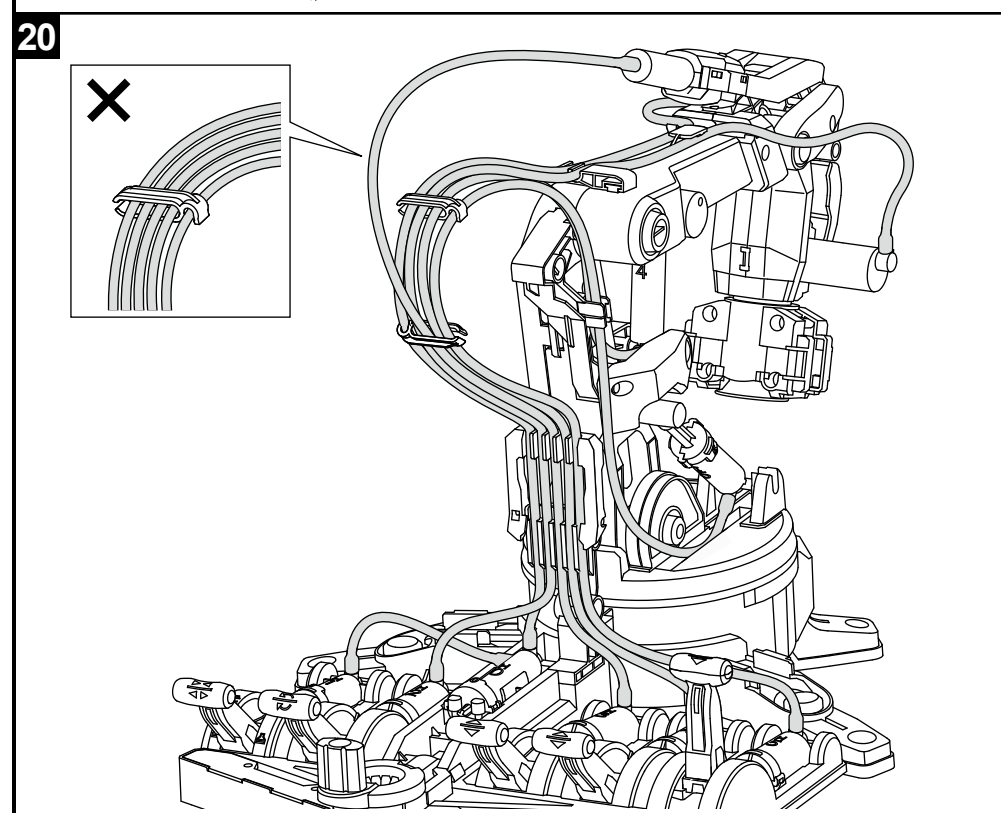
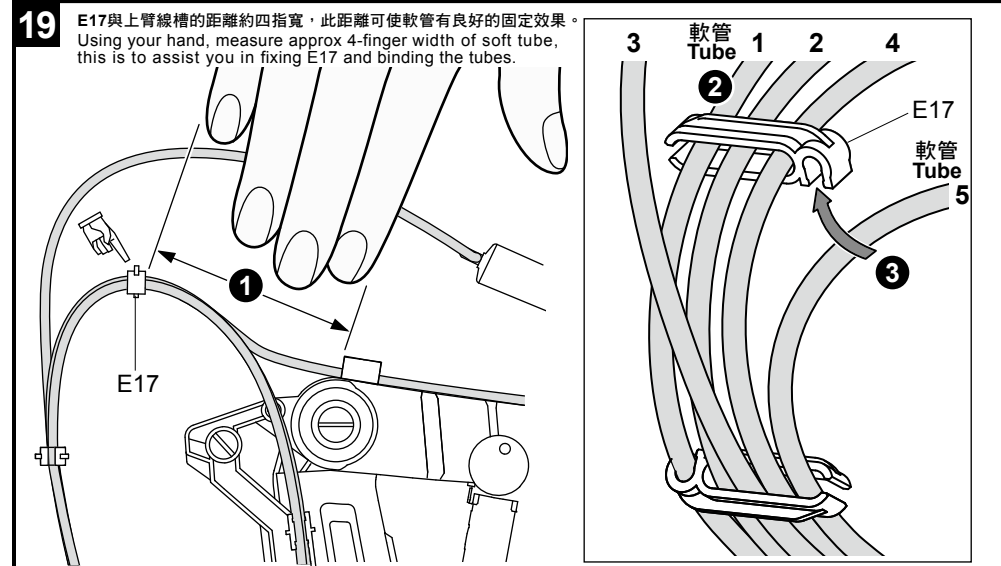
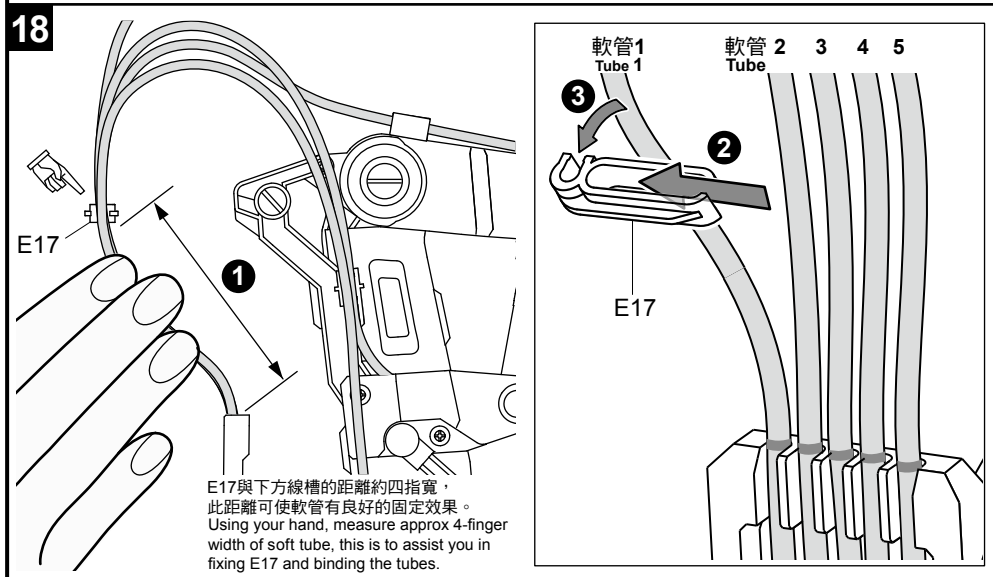
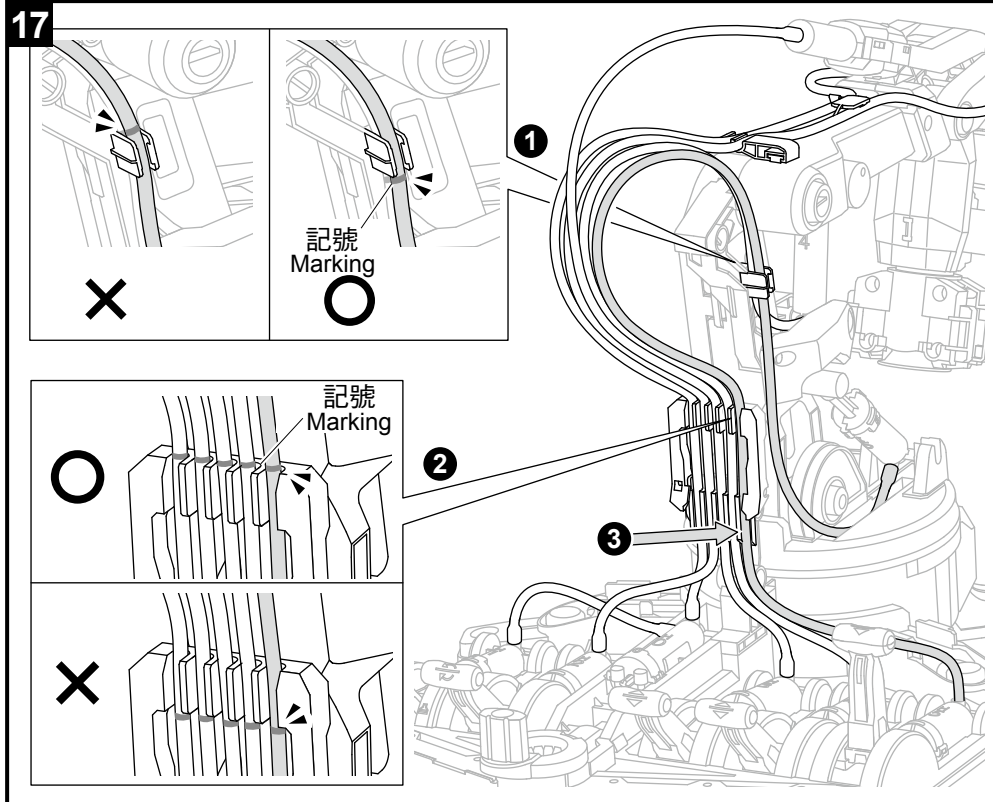
液壓筒與手臂組裝 Robot Arm Module Assembly





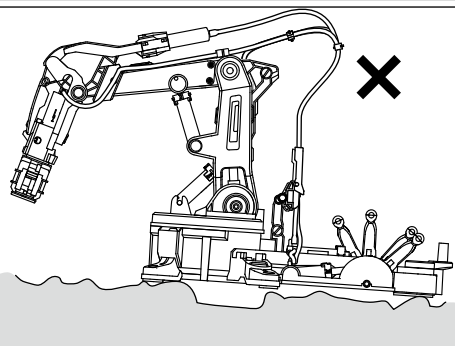
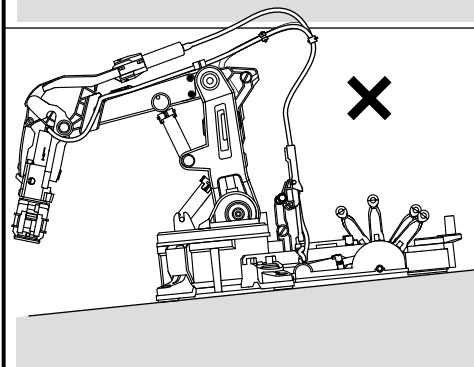
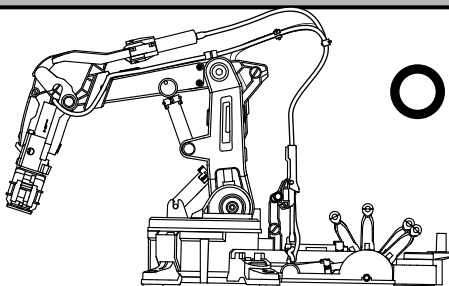




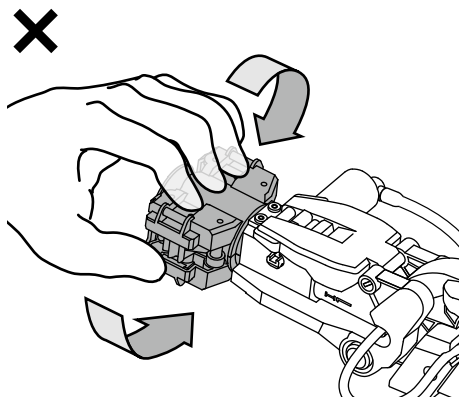
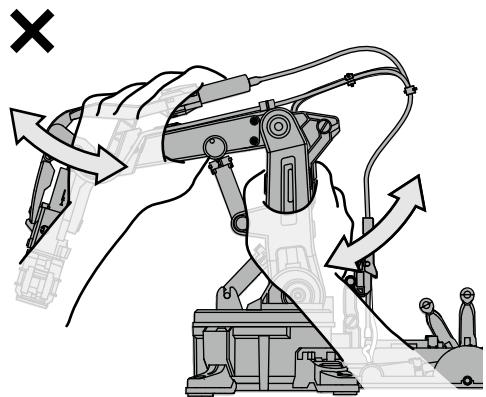


操作方式 How To Play

注意事項 Warning

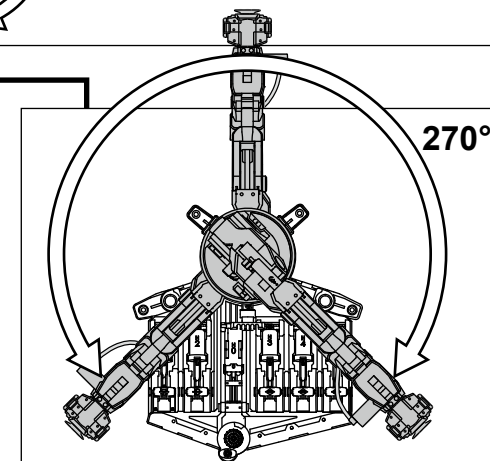
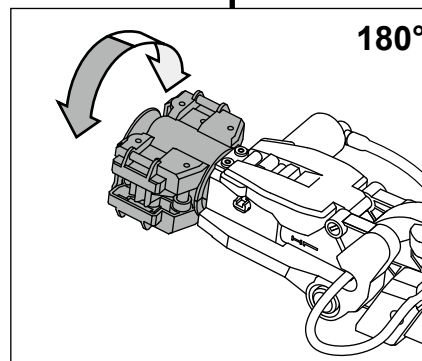
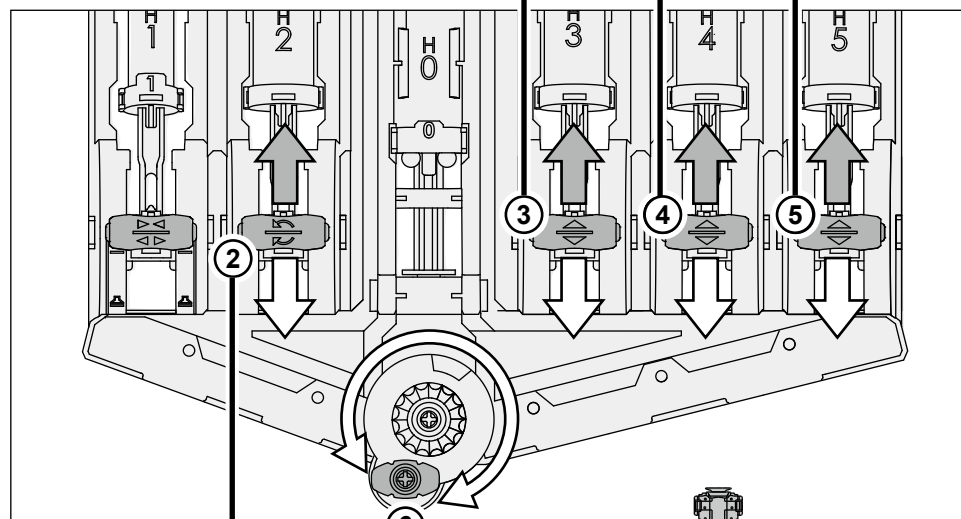
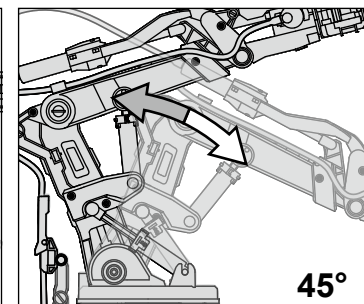
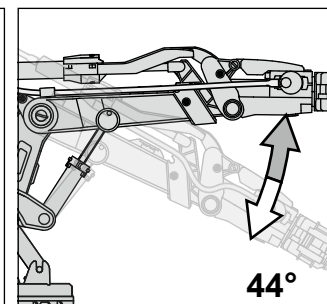
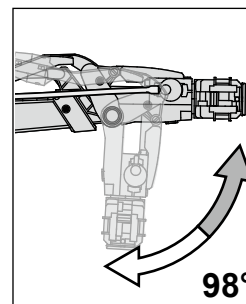


注意! 請放在平整面上操作
Operate on a smooth and level surface.



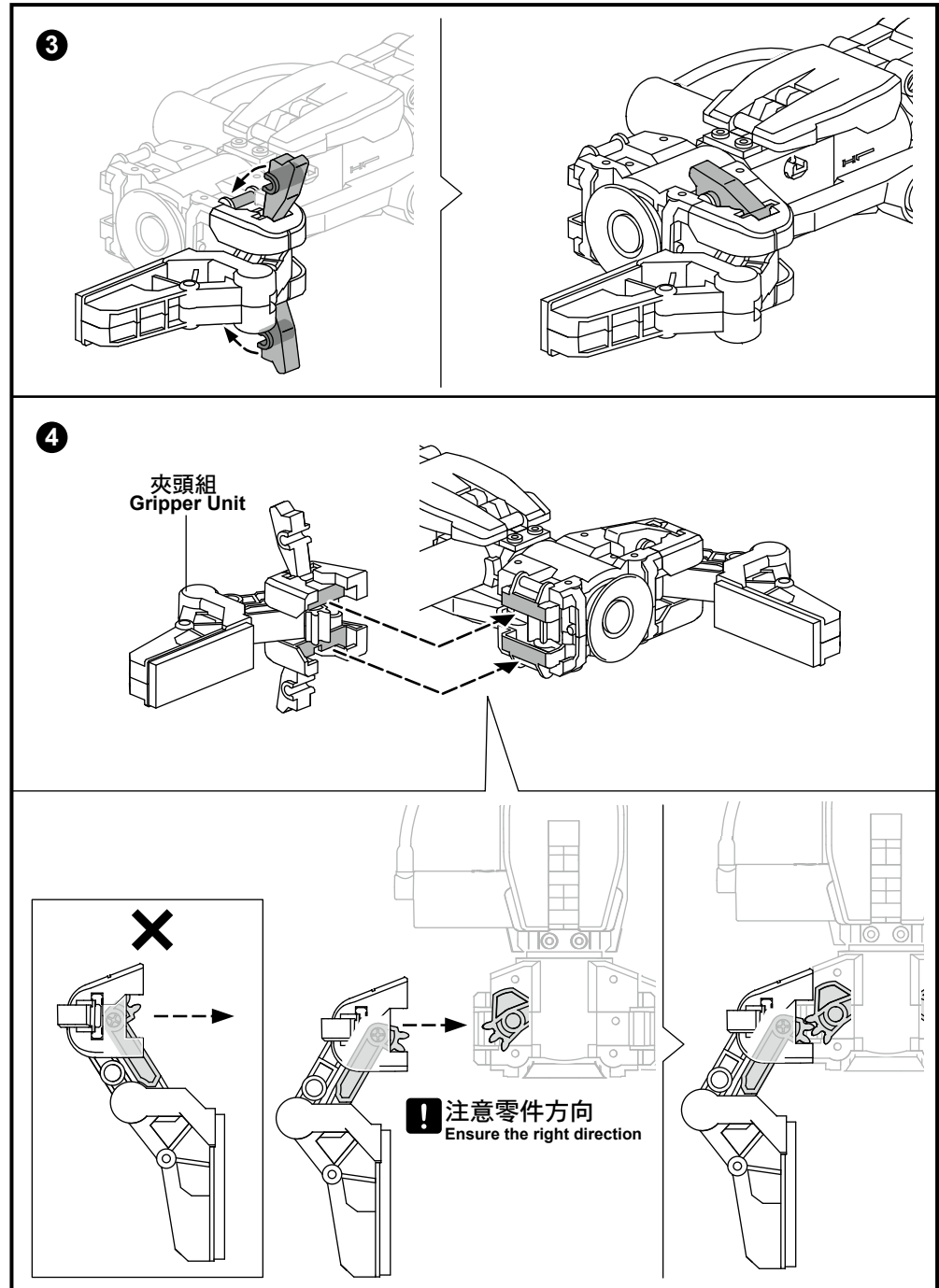
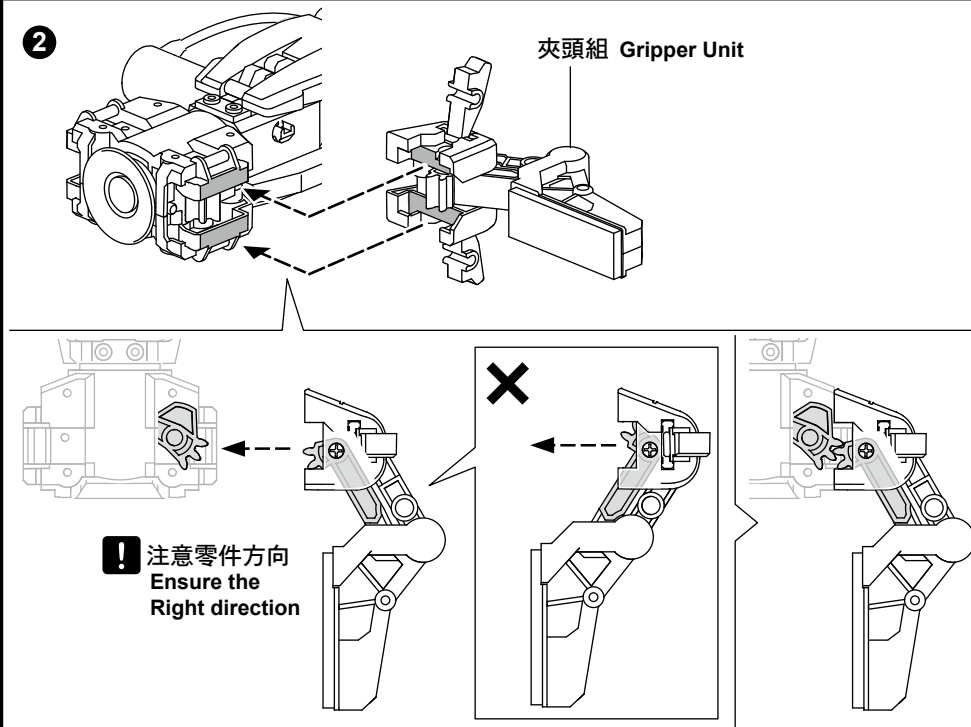
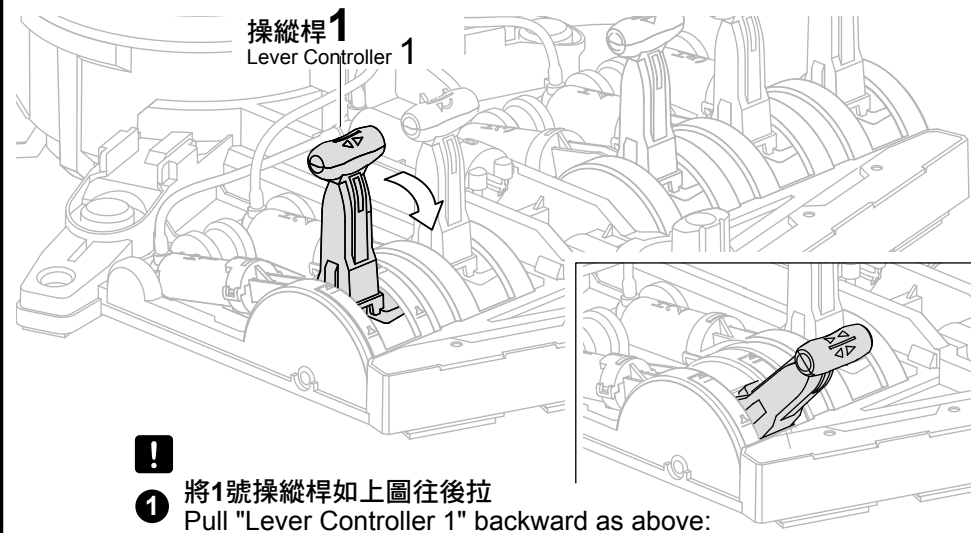
請使用操縱桿控制手臂! 請勿像上圖錯誤操作!
Handle the arm with care and do not mistreat as shown above

操作方式 : 2~6軸 How To Play: 2~6 AXES

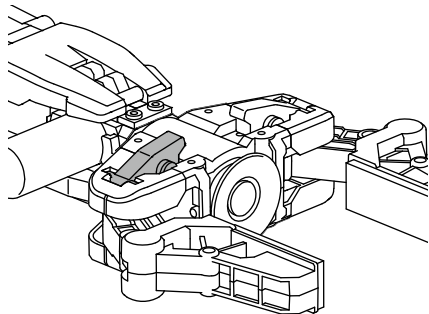
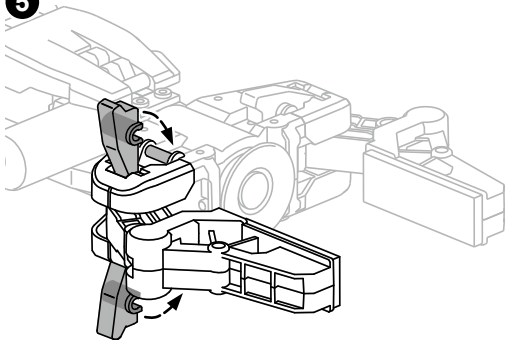


如何操作夾頭 How To Play-Gripper Mode

1 安裝夾頭 Installation

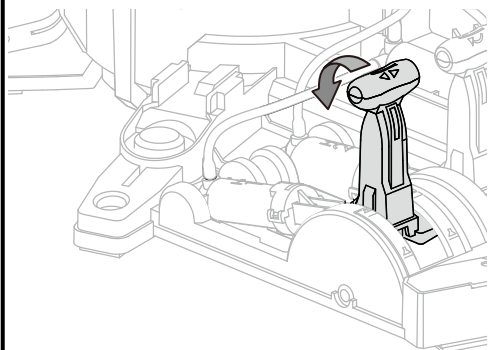


5

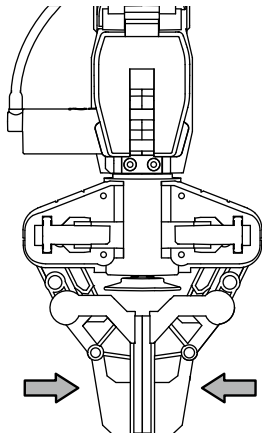
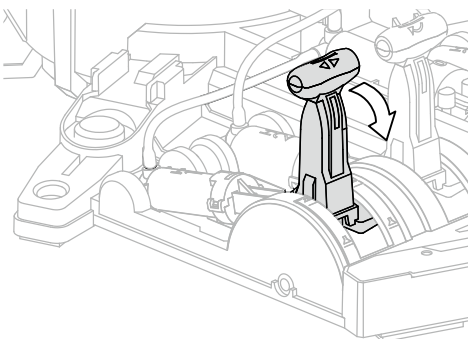


2

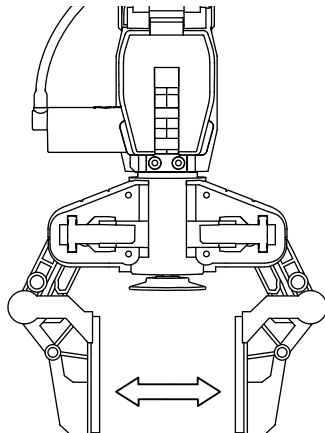
物件夾取：將1號操縱桿往前推
Grip the object: Push "Lever Controller 1" forward



放下物件：將1號操縱桿往後拉
Release the object: Pull "Lever Controller 1" backward



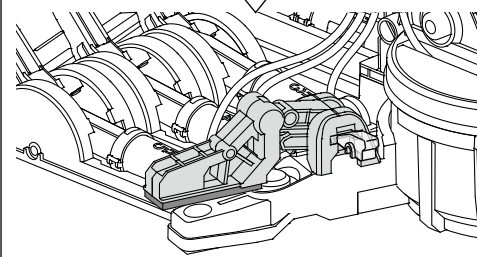
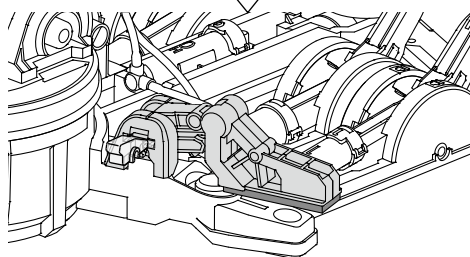
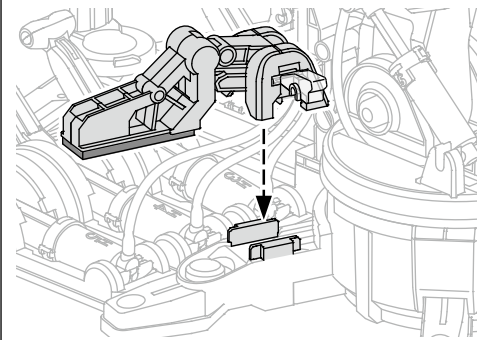
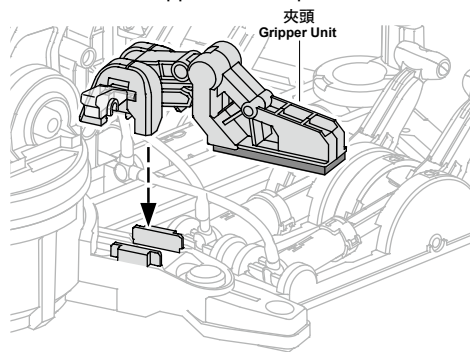
最大夾舉重量：50 g Maximum Lift : 50 g



如何操作吸盤 How To Play- Suction Mode

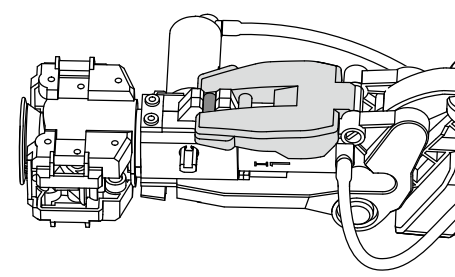
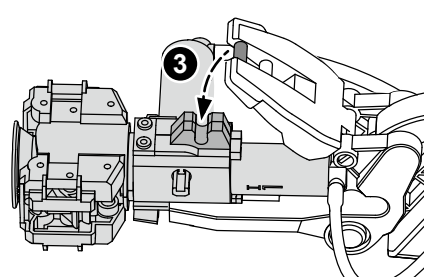
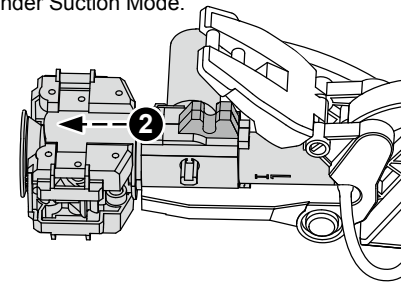
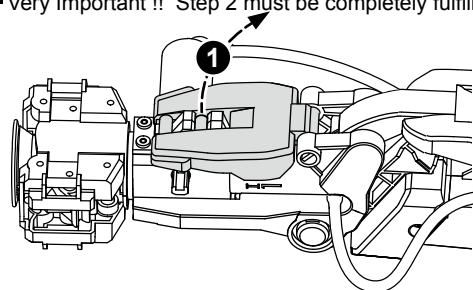
1

取下來頭組並收納於下圖位置
Release Gripper unit and put it aside as below



2

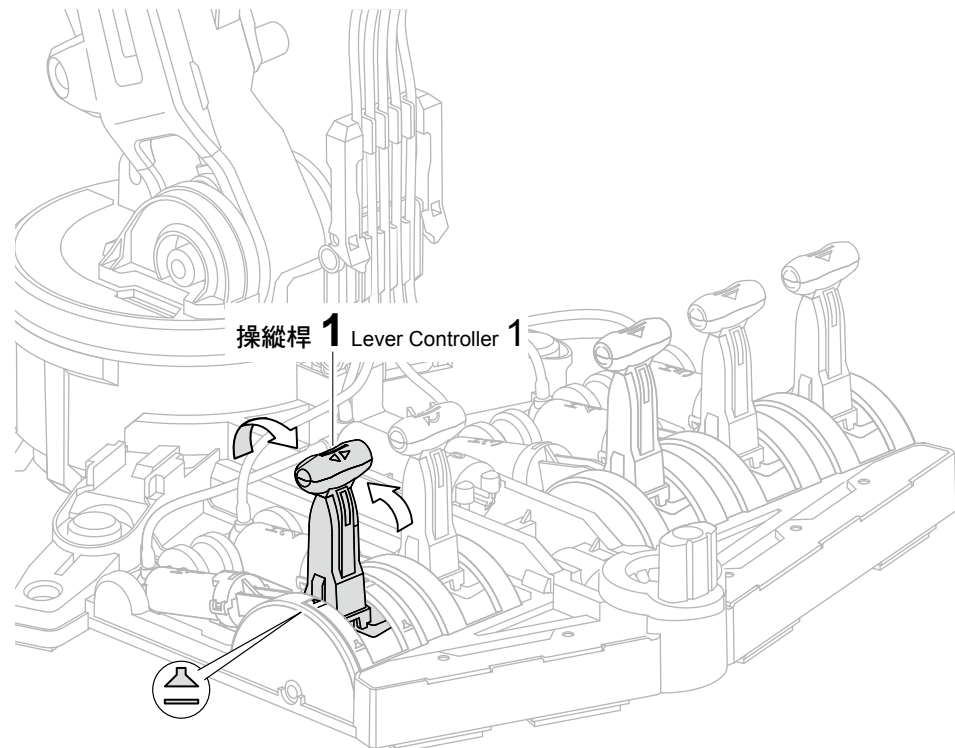
非常重要！改為吸盤模式請照以下步驟調整
Very Important !! Step 2 must be completely fulfilled under Suction Mode.



3

將1號操縱桿推到中間位置

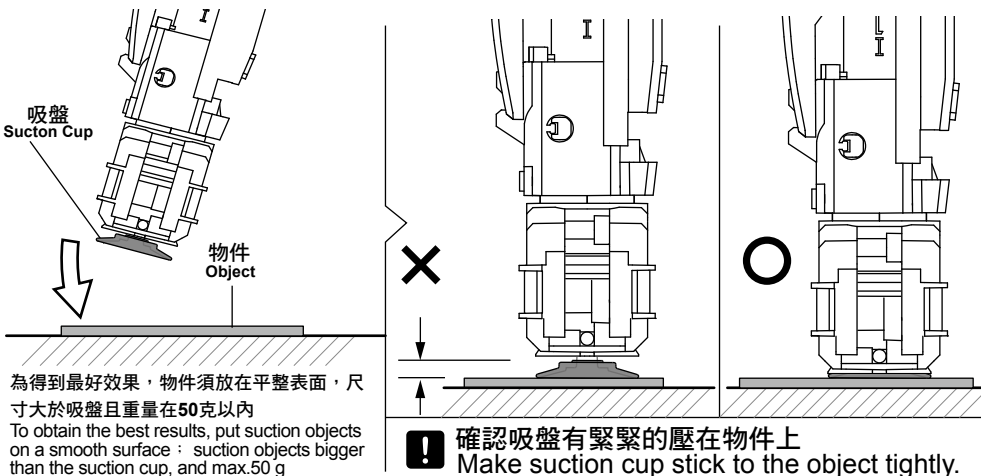
Set the "Lever Controller 1" in the middle as below



4

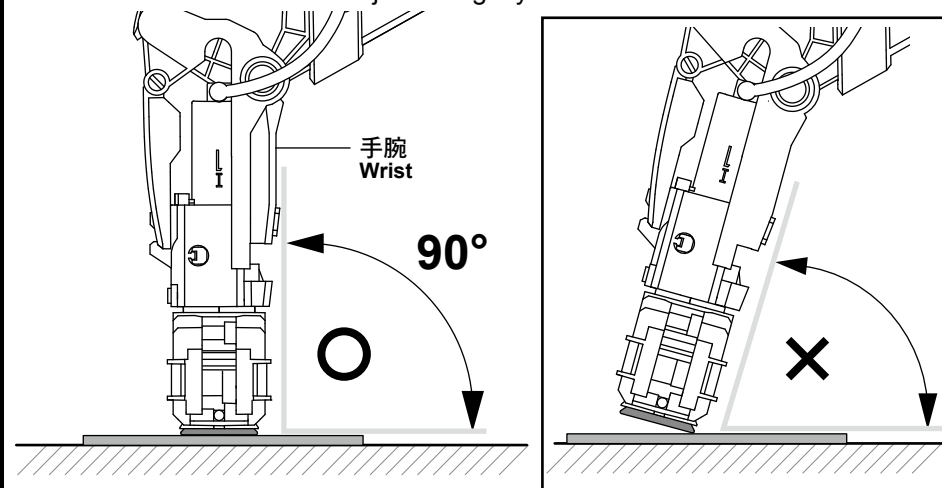
操作2~6號操縱桿(參考77頁)使吸盤移動到物件

Operate the lever Controllers 2-6 (refer to page. 77), and have suction cup target the object.



夾頭組須垂直於物件

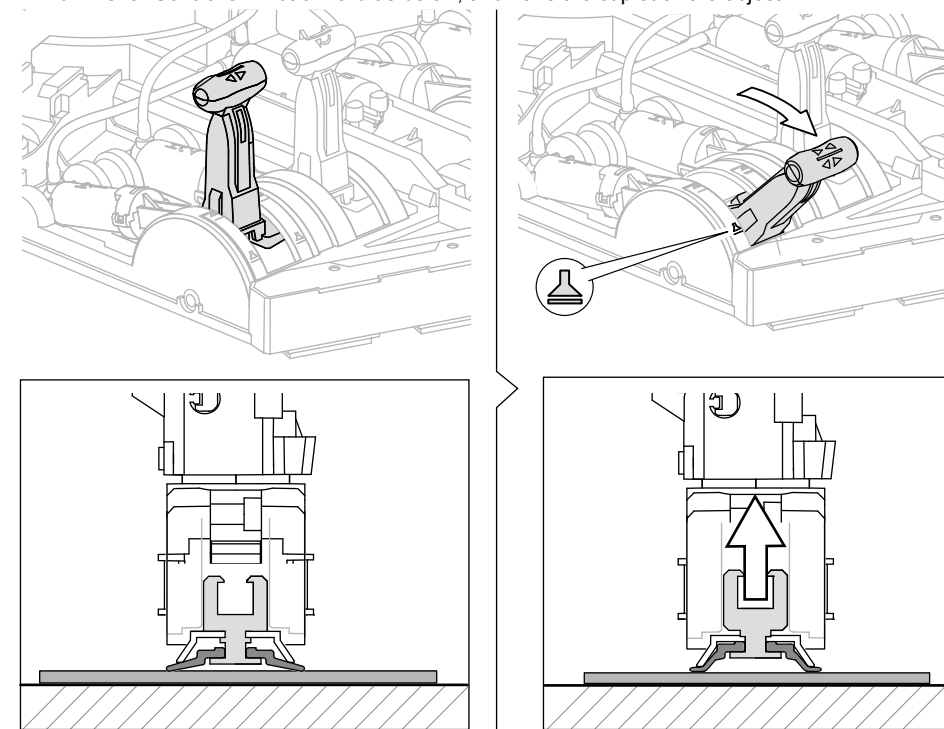
Direct the Wrist to the object straightly



5

將操縱桿1往後拉，使吸盤吸附在物件上

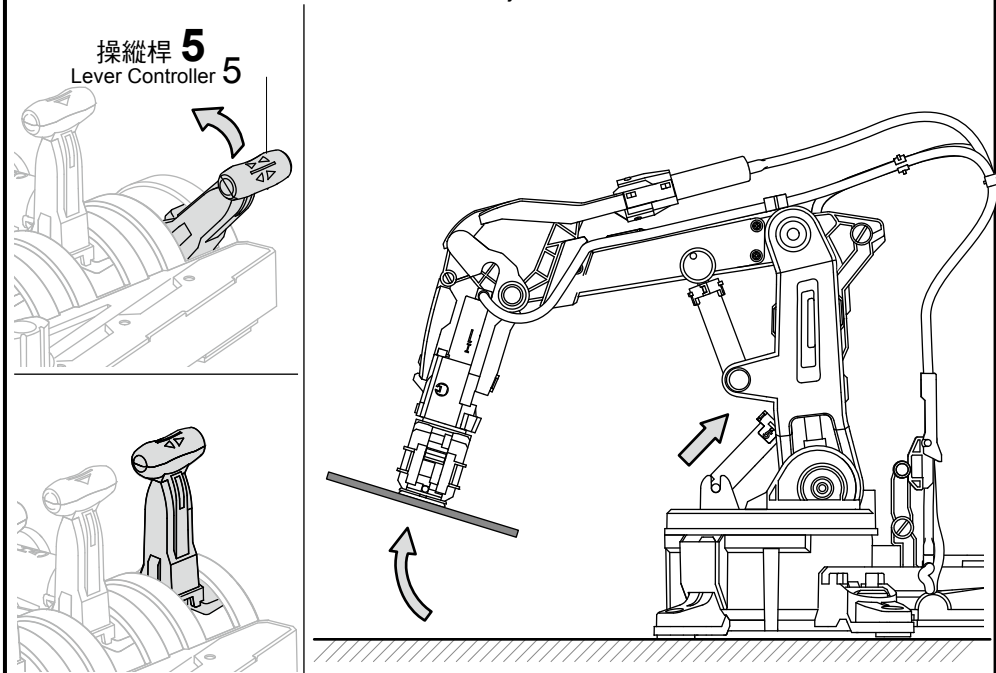
Pull "Lever Controller 1" backward as below, and have the cup suck the object.



6

將操縱桿5往前推以舉起物件

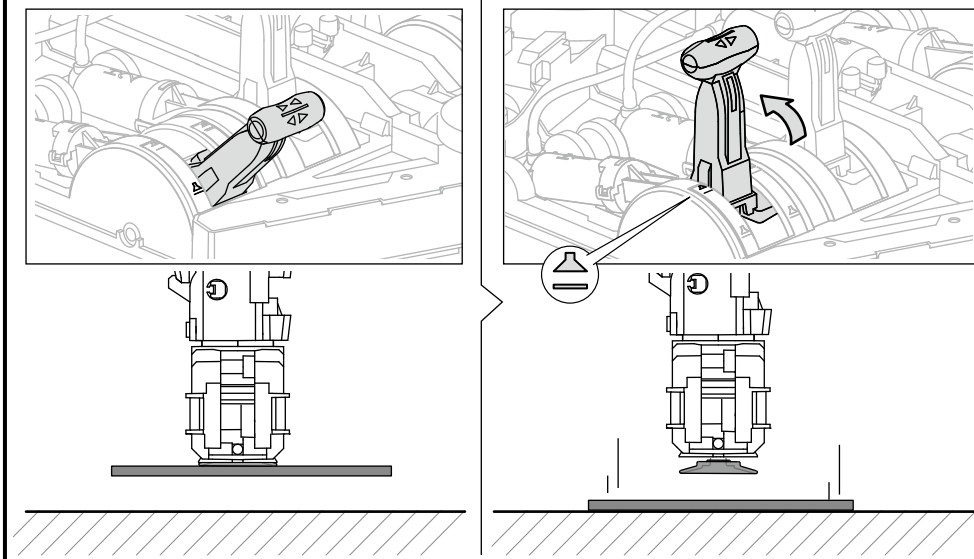
Push "Lever Controller 5" forward to lift the object.



7

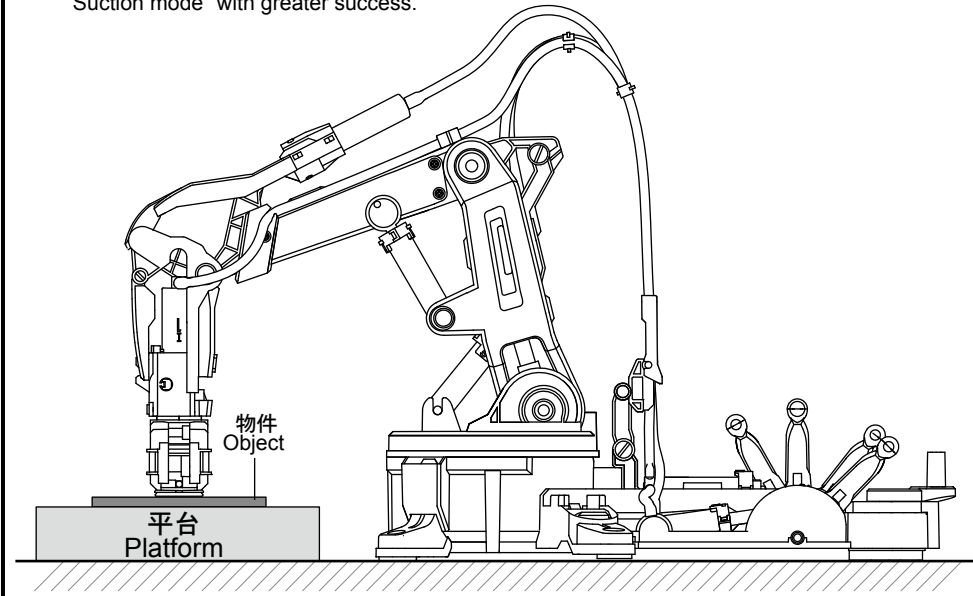
將操縱桿1推到中間位置以鬆開吸盤

Set "Lever Controller 1" in the middle to release object.



8

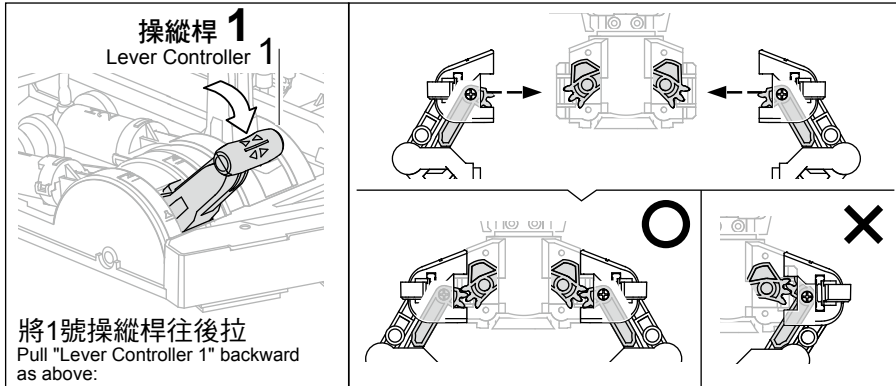
將物件放在一個稍微高一點且平整的平台上，可協助您在練習“吸盤模式”時得到比較好的成效。
 Tip: Put the object under a slightly higher/and smoother platform, it may help you practice the "Suction mode" with greater success.



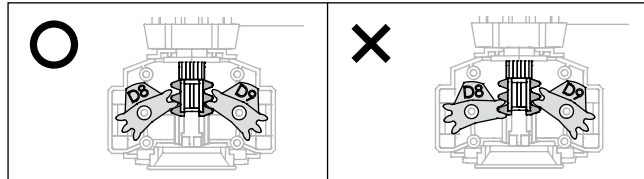
簡易故障排除 Trouble Shooting

- 如果夾頭無法開合，請跟著以下步驟進行確認
If gripper unit does not work (open or close) functionally, please check following steps.

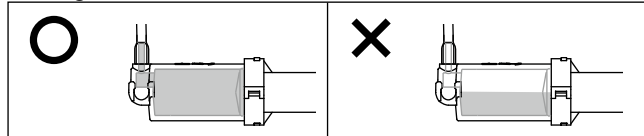
1. 請確認夾頭是否安裝在正確的位置及方向(參考第78、79頁以下步驟)
Check if gripper unit is installed in the correct position and direction (as below pics in pages 78,79)



2. 回到第32頁，確認是否有依照步驟16正確安裝
Back to page 32, and check step 16 is correct.



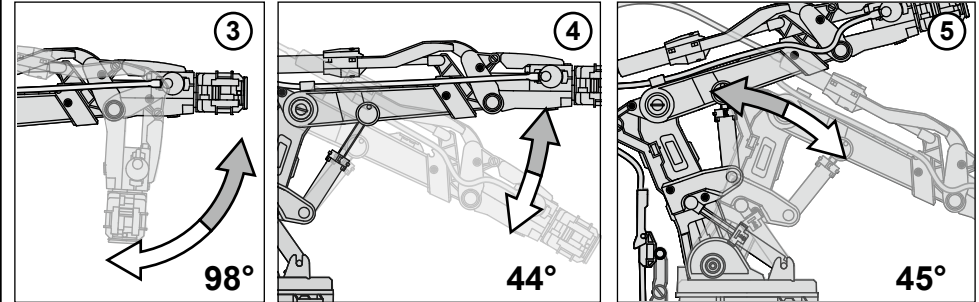
3. 請確認H1、I1和1號軟管內是否有過多的空氣，若是請回到第42~45頁重新組裝。
Check if there is excess air inside the Cylinder H1, I1 and Tube 1. In that case, refer back to pages 42-45 to re-assemble."Same change on number "2" below.



- 如果在吸盤模式下無法吸附物件
If suction cup cannot suck the objects under suction mode.

1. 回到第81~84頁，確認是否有依照步驟2~步驟6正確安裝。
Back to pages 81~84, and check if all steps 2~6 are installed correctly.
2. 請確認H1、I1和1號軟管內是否有過多的空氣，若是請回到第42~45頁重新組裝。
Check if there are excess air inside the Cylinder H1, I1 and Tube 1. In the case, back to pages 42-45 to re-assemble.

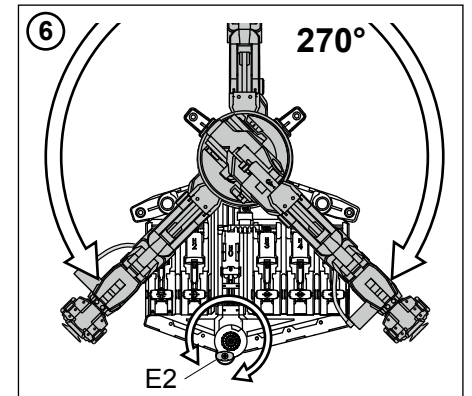
- 如果在操作第3/4/5軸時無法完全伸展到最大角度
If operation angle on the Axes 3/4/5 is unable to extend to the max.



1. 請確認在H3/4/5、I3/4/5液壓筒和3/4/5號軟管是否有過多的空氣，若是請回到第37~40頁重新組裝。
Check if there is excess air inside the Cylinder H3/4/5, I3/4/5, and Tube 3/4/5, in that case, refer back to pages 37~40 to re-assemble.
2. 請確認所有軟管是否安裝到正確位置且沒有交錯。在軟管有交錯的狀況下:
Check if all tubes are routing and not twisting during assembly. In the case of twisted tubes:
 - 2.1 請回到第66~75頁"液壓筒與手臂組裝"，確認所有軟管記號及安裝位置是否正確。
Back to pages 66~75 "Robot Arm Module Assembly" to check if all markings on the tubes are installed in the right position.
 - 2.2 請回到第46~48頁"量測與作記號"，確認所有剪裁長度及記號位置是否正確。
Back to Pages 46~48 "Measuring & Marking" to check if all lengths of tubes are cut and marked correctly.

- 如果第六軸轉動不順暢
Poor movement of the 6th Axe.

1. 如果旋轉E2而第六軸沒有轉動時，請回到第19頁步驟13，確認E10是否安裝在正確位置。
If 6th Axe does not move when rotating E2, back to Page 19, Step 13 and check if E10 is intalled in the right position.



2. 請確認所有軟管是否安裝到正確位置且沒有交錯。在軟管有交錯的狀況下:
Check if all tubes are routing and not twisting during assembly. In the case of twisted tubes:
 - 2.1 請回到第66~75頁"液壓筒與手臂組裝"，確認所有軟管記號及安裝位置是否正確。
Back to pages 66~75 "Robot Arm Module Assembly" to check if all markings on the tubes are installed in the right position.
 - 2.2 請回到第46~48頁"量測與作記號"，確認所有剪裁長度及記號位置是否正確。
Back to Pages 46~48 "Measuring & Marking" to check if all lengths of tubes are cut and marked correctly.

若需要購買零件，請參照以下零件表

When ordering parts, please include the following

1. 請留下訂購人姓名、寄送地址、連絡電話、E-mail
Name, address (no P.O. Box), telephone number, and email address.
2. 請註明產品名稱、產品型號、零件名稱、零件型號以及數量
Model name and model number. Part number, part name, and quantity.
3. 如有任何需求，請洽您的經銷商
Please contact local distributor if any query.

GE-632 液壓機器手臂 零件表 Parts List

零件型號 Part Number	零件名稱 Part Name	數量 Qty
5GE-63200P1	華司螺絲(短) Tapping Screw (Short)	
5GE-63200P2	自攻螺絲(長) Tapping Screw (Long)	
5GE-63200P3	鐵塊(短) Iron Bar (Short)	
5GE-63200P4	鐵塊(長) Iron Bar (Long)	
5GE-63200P5	墊片 Brake Pad	
5GE-63200P6	活塞帽(小) Cap (Small)	
5GE-63200P7	活塞帽(大) Cap (Big)	
5GE-63200P8	吸盤 Suction Cup	
5GE-63200P9	泡棉 Sponge	
5GE-63200P10	彈簧(小) Spring (Smallest)	
5GE-63200P11	彈簧(短) Spring (Short)	
5GE-63200P12	彈簧(中) Spring (Medium)	
5GE-63200P13	彈簧(長) Spring (Long)	
5GE-63200P14	軟管 Soft Tube	
5GE-63200P15	油包 Oil Bag	
5GE-63200PPA	塑膠模型零件A Plastic Part A	
5GE-63200PPB	塑膠模型零件B Plastic Part B	
5GE-63200PPC	塑膠模型零件C Plastic Part C	
5GE-63200PPD	塑膠模型零件D Plastic Part D	
5GE-63200PPE	塑膠模型零件E Plastic Part E	
5GE-63200PPF	塑膠模型零件F Plastic Part F	
5GE-63200PPG	塑膠模型零件G Plastic Part G	
5GE-63200PPHI	塑膠模型零件H Plastic Part H/I	



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