

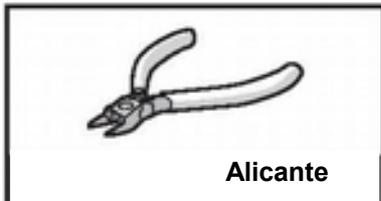
Brazo Robótico Hidráulico C-9898



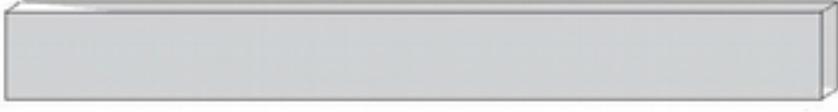
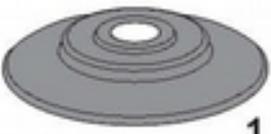
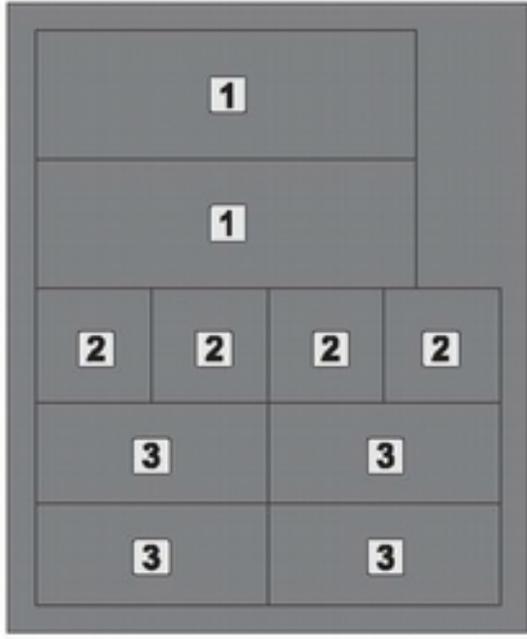
Con el brazo robótico hidráulico podrás ver como funciona la hidro- mecánica .

Con el brazo hidráulico, puedes hacer hasta 6 movimientos distintos: la pinza para abrir y cerrar hasta 1,89 pulgadas, la rotación de la muñeca de 180 grados, la movilidad de la muñeca de 98 grados, rango de codo de 44 grados, la rotación de la base de 270 grados, y el movimiento del hombro de 45 grados. Con un alcance vertical de 16.35 pulgadas, alcance horizontal de 12.45 pulgadas, y la capacidad de carga de 50 g, el robot está listo . Con la eliminación de la pinza, se puede activar el aparato de succión. Esta característica permite elevar objetos con una superficie más grande (como un pequeño teléfono móvil). otra característica es un sistema de frenado que se integra en los controladores de palanca para hacer servir todos los comandos de precisión.

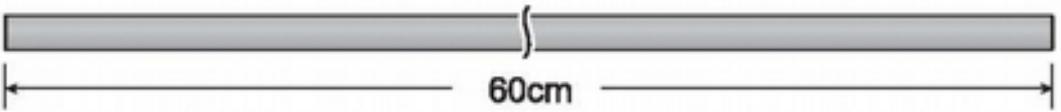
Herramientas necesarias :



Material incluido en el kit

P1 Tornillos  9 pcs	P3 Barra de acero corta  1 pc		
P2 Tornillos  28 pcs	P4 Barra de acero larga  1 pc		
P5 Pastilla de freno  10 pcs	P6 Casquillo pequeño  5 pcs	P7 Casquillo grande  6 pcs	P8 Ventosa  1 pc
P9 Esponja  1 pc	P10 Muelles pequeñitos  5 pcs		
	P11 Muelle pequeño  1 pc		
	P12 Muelle mediano  1 pc		
	P13 Muelle grande  1 pc		

P14 **Tubo flexible**



60cm 5 pcs

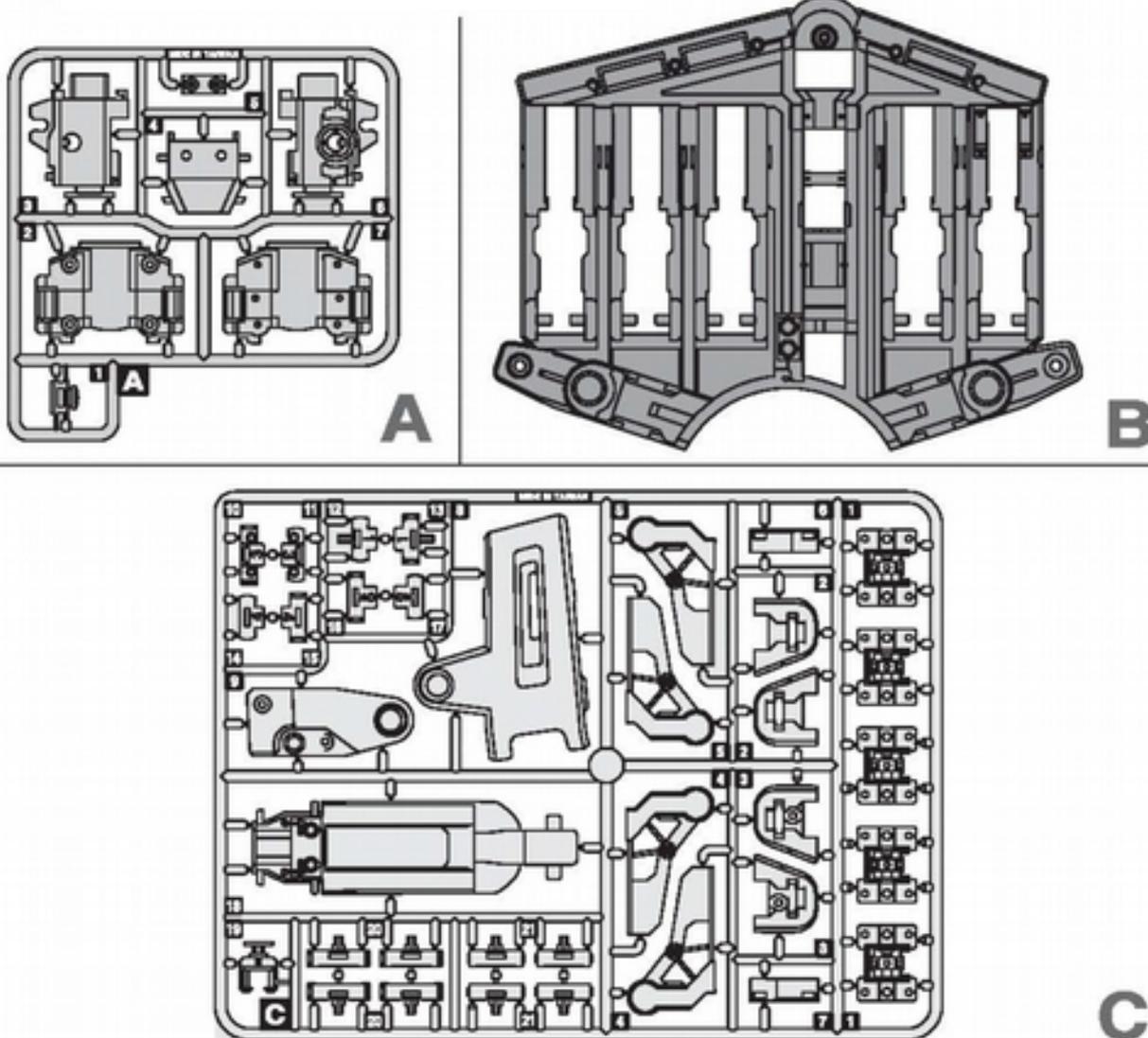
P15 **Bolsita con aceite**



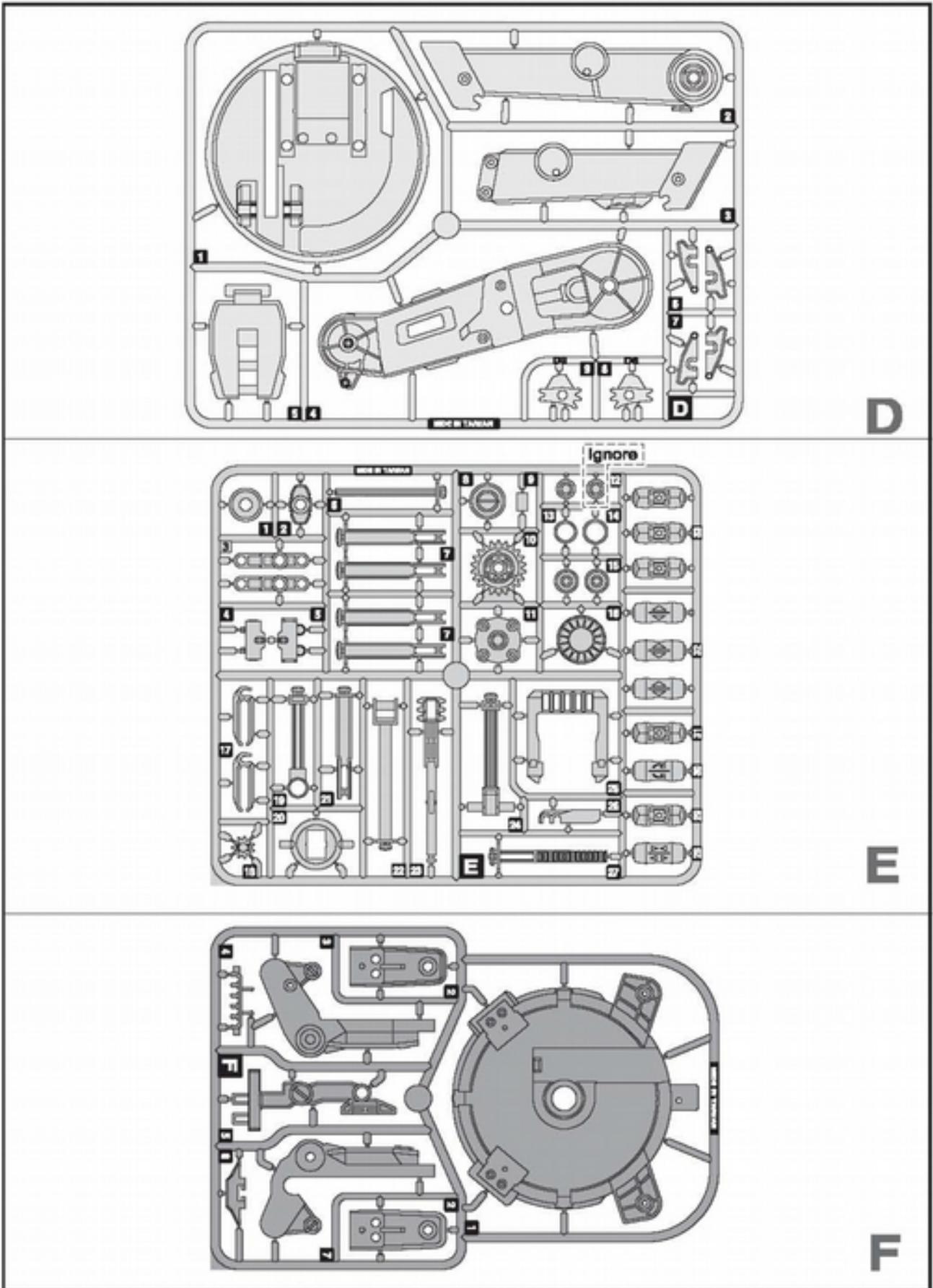
1 pc

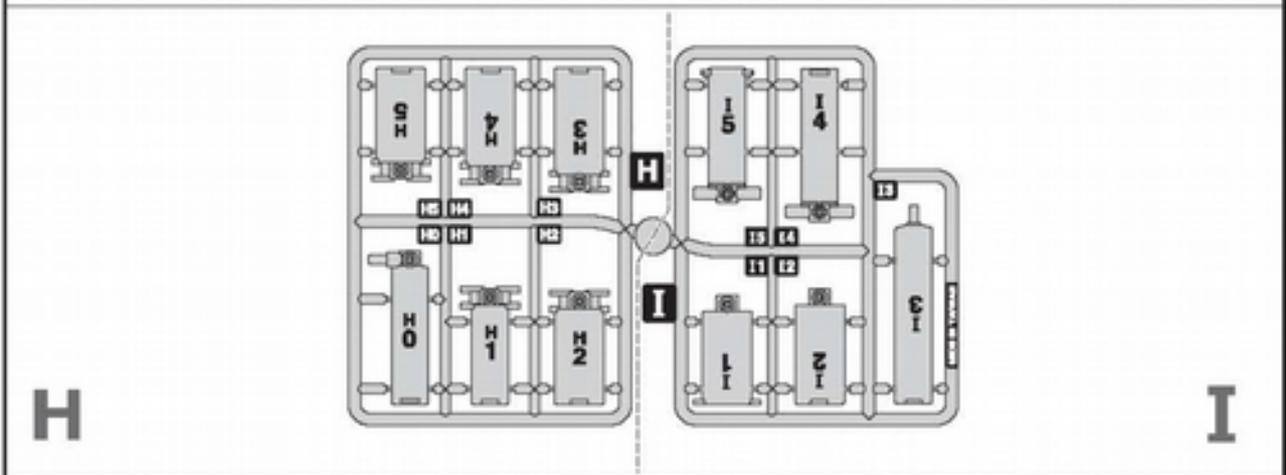
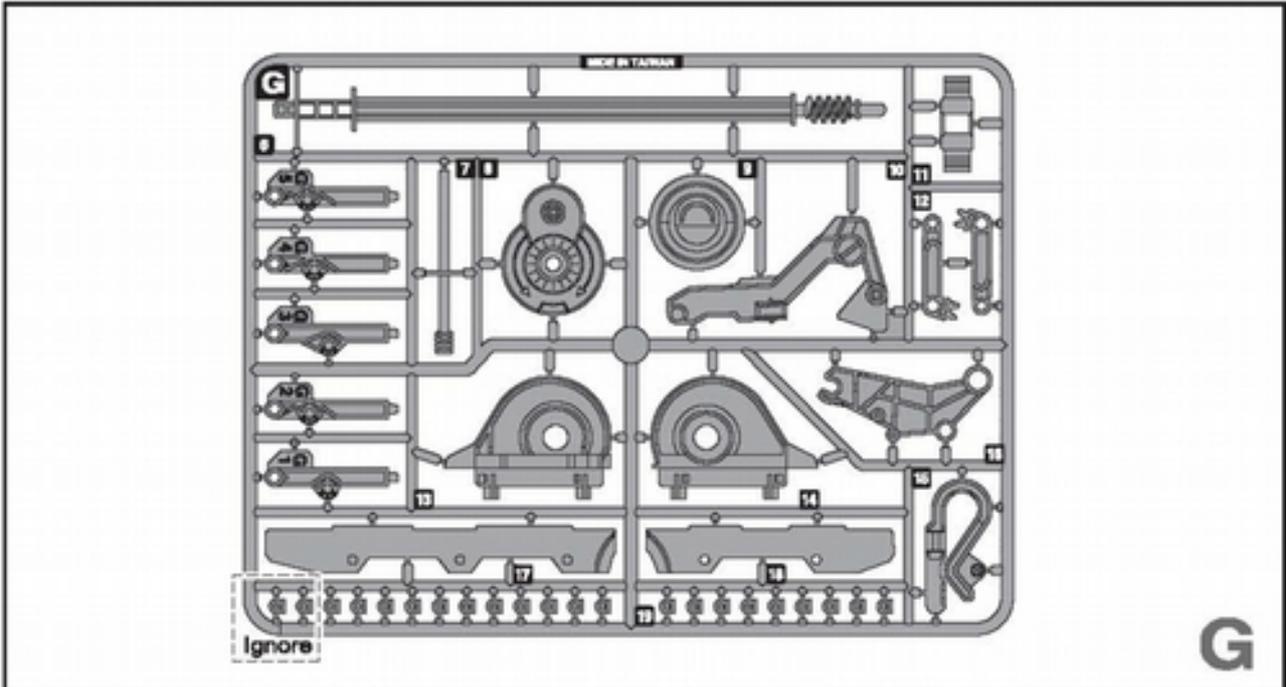
Piezas de plástico

! Cortar las piezas de plástico conforme las vayas necesitando

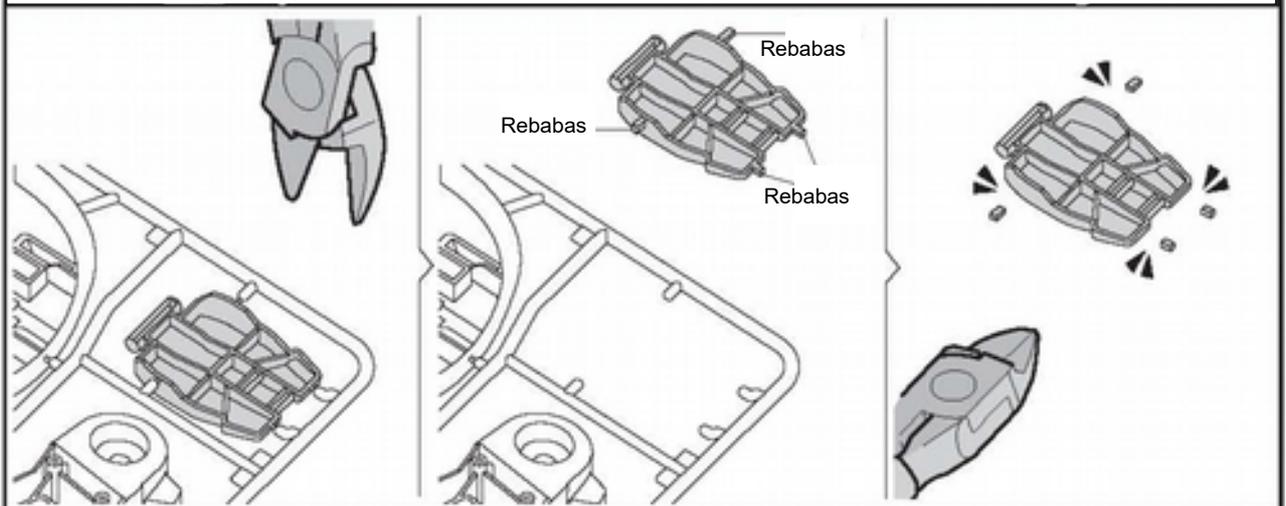


A **B** **C**

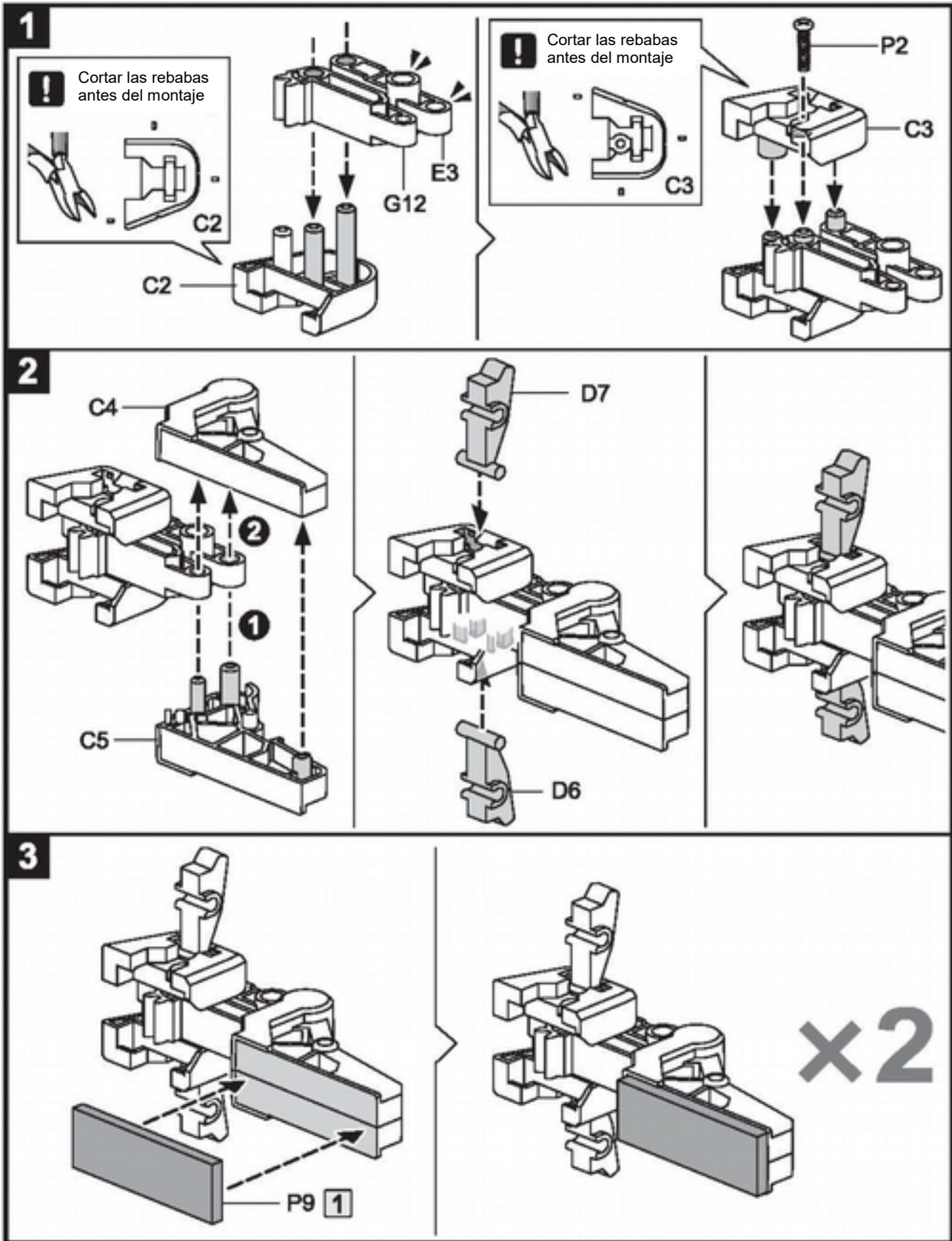


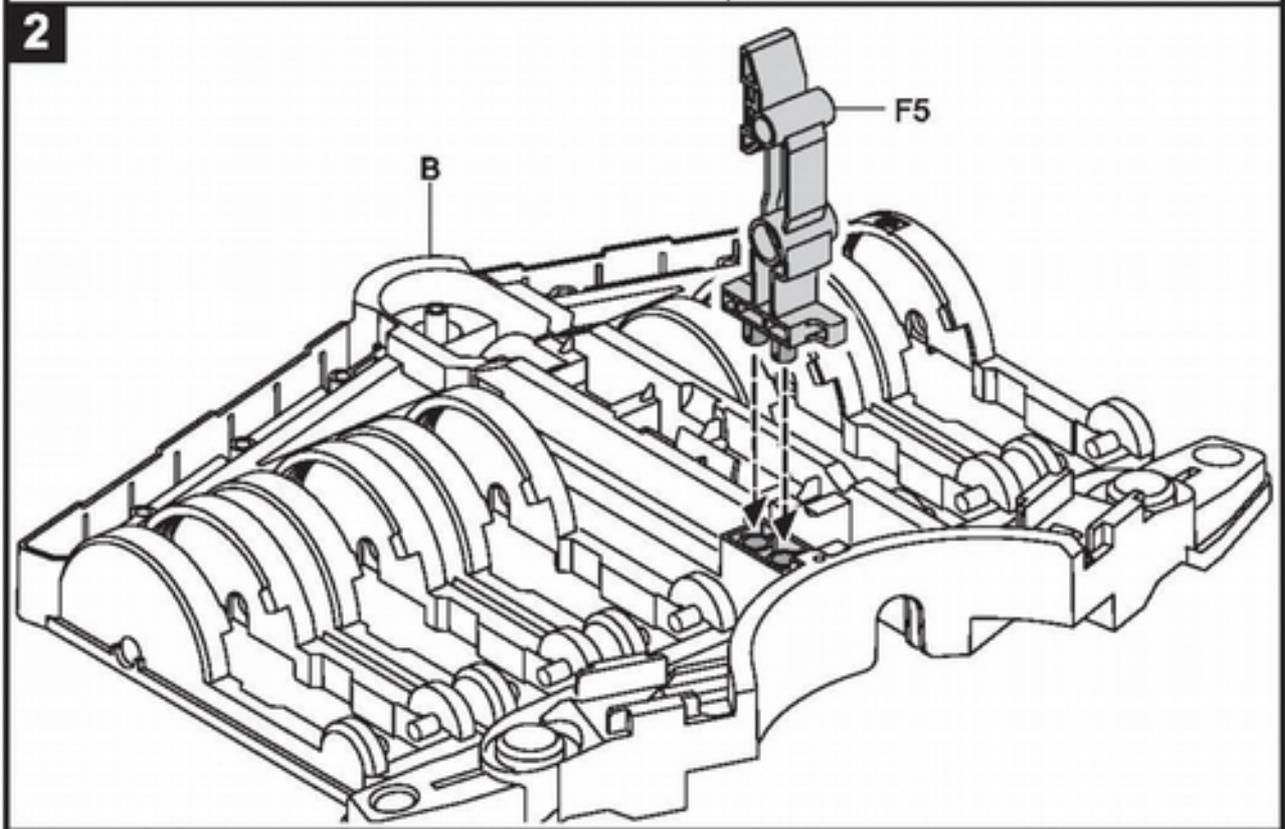
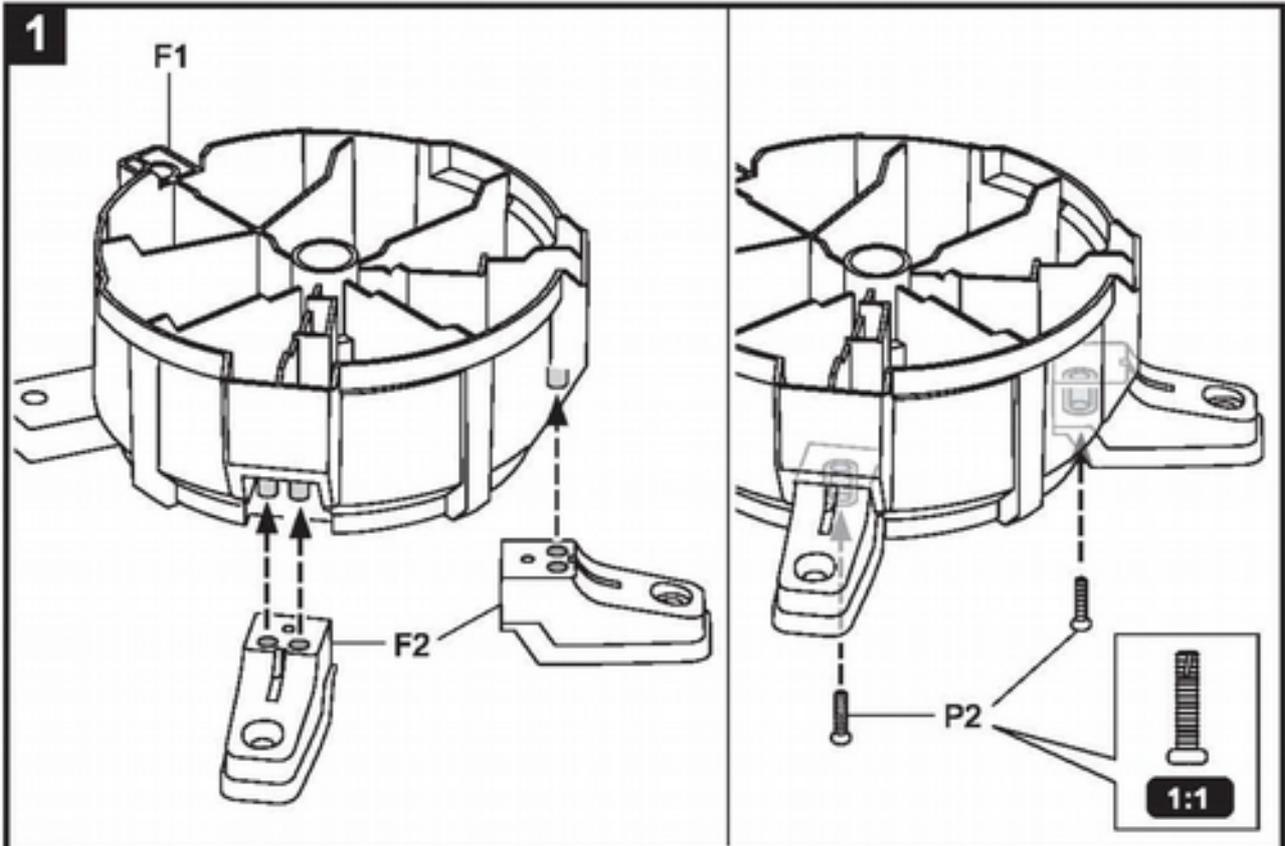


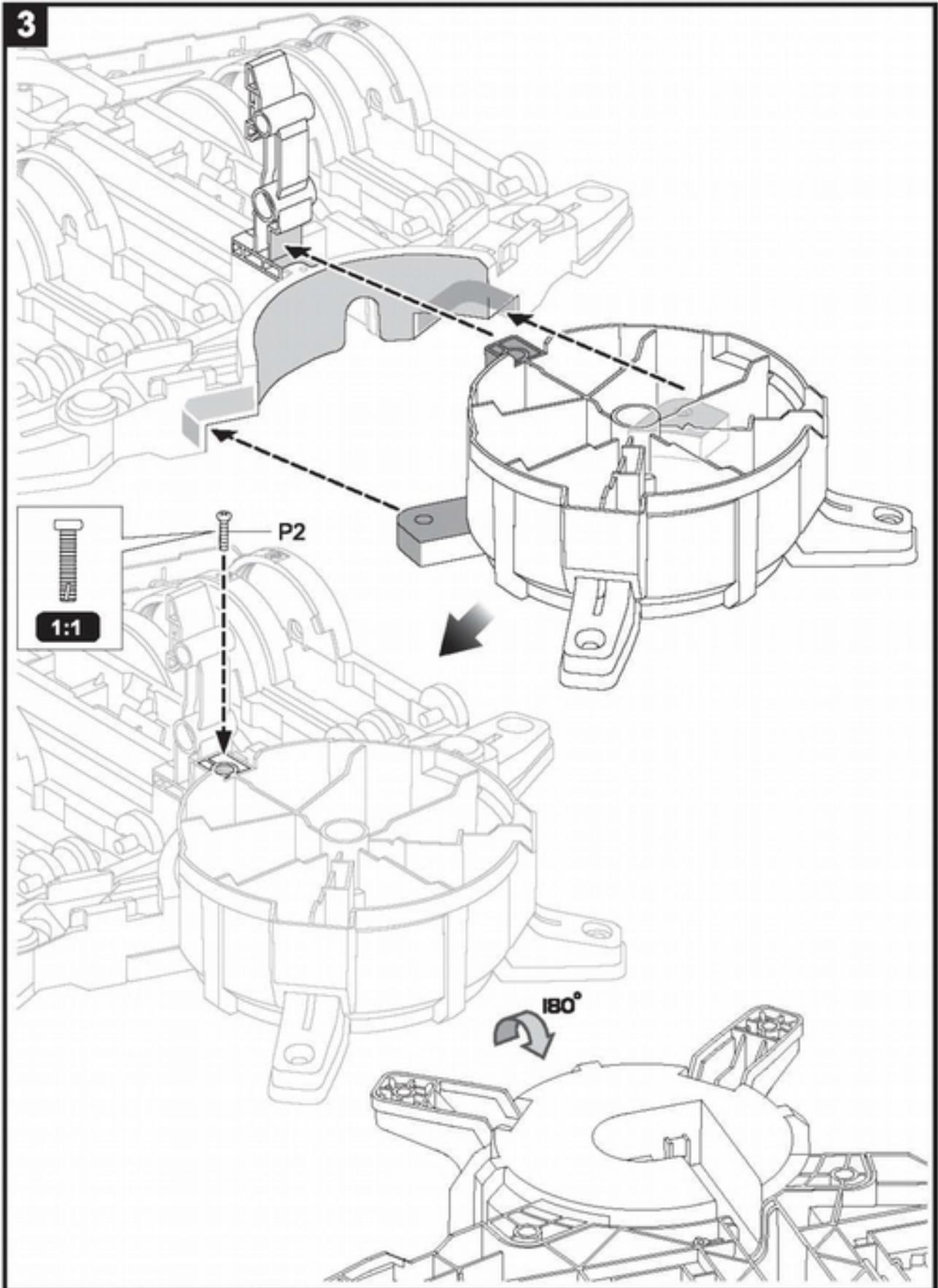
Cortar las rebabas antes del montaje

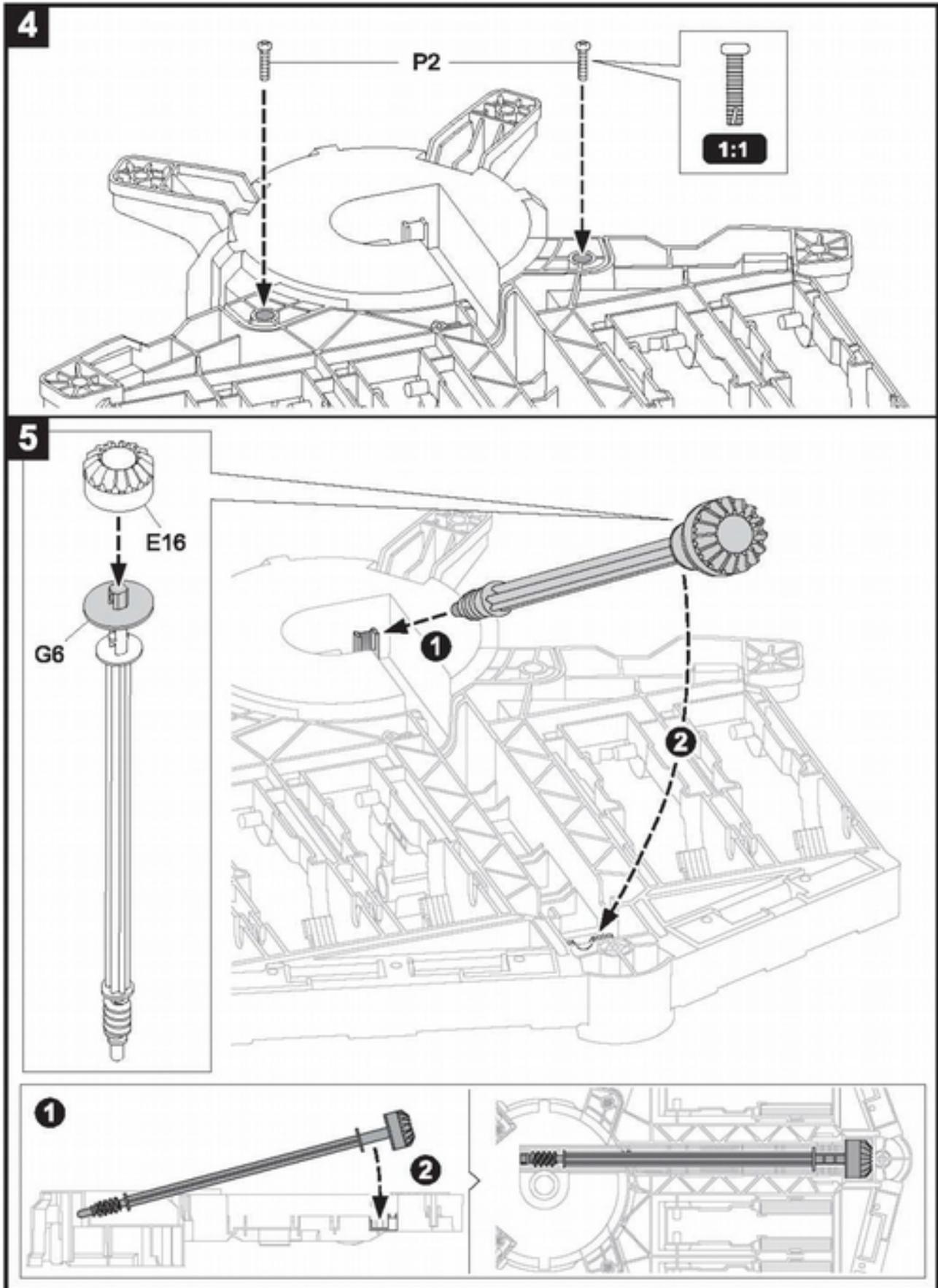


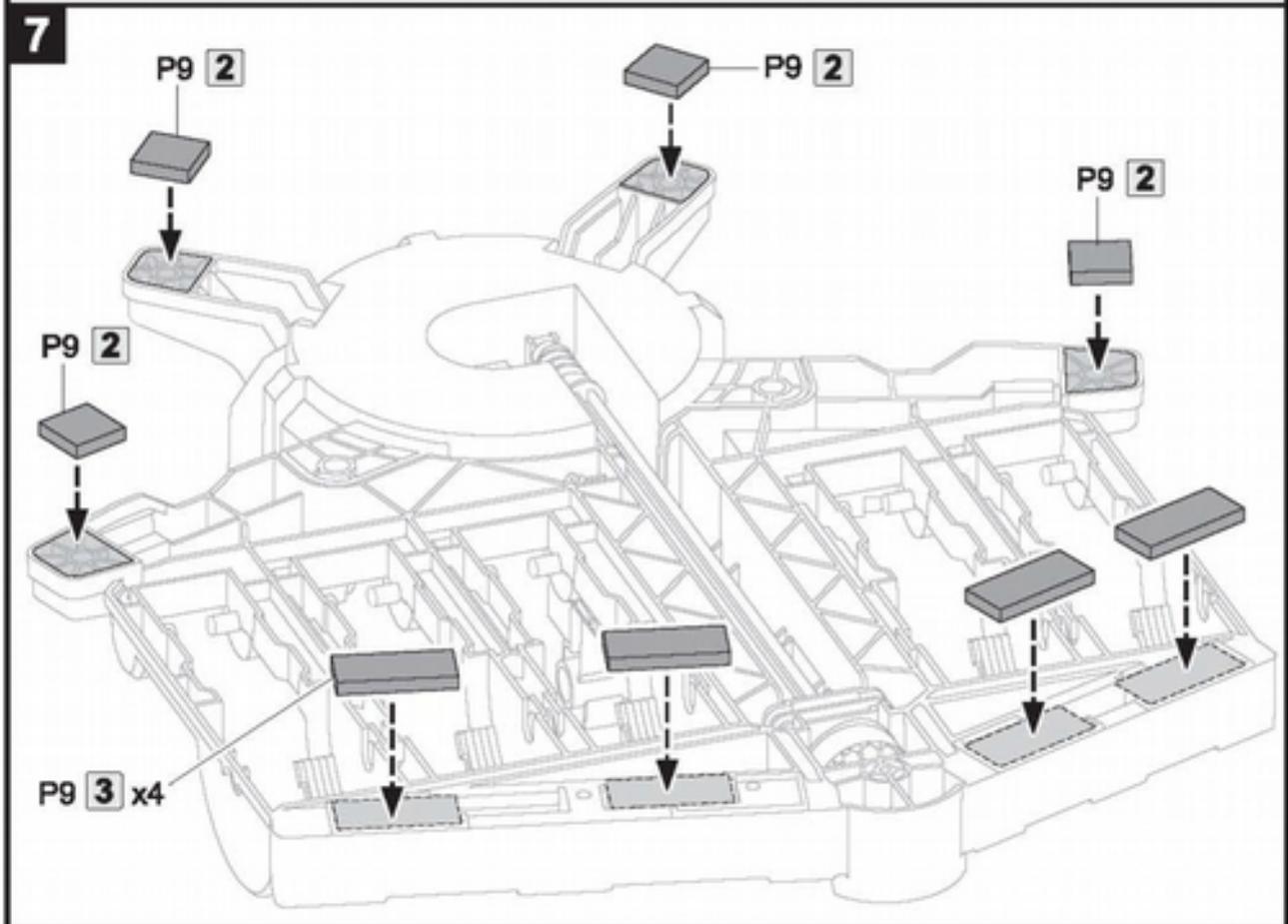
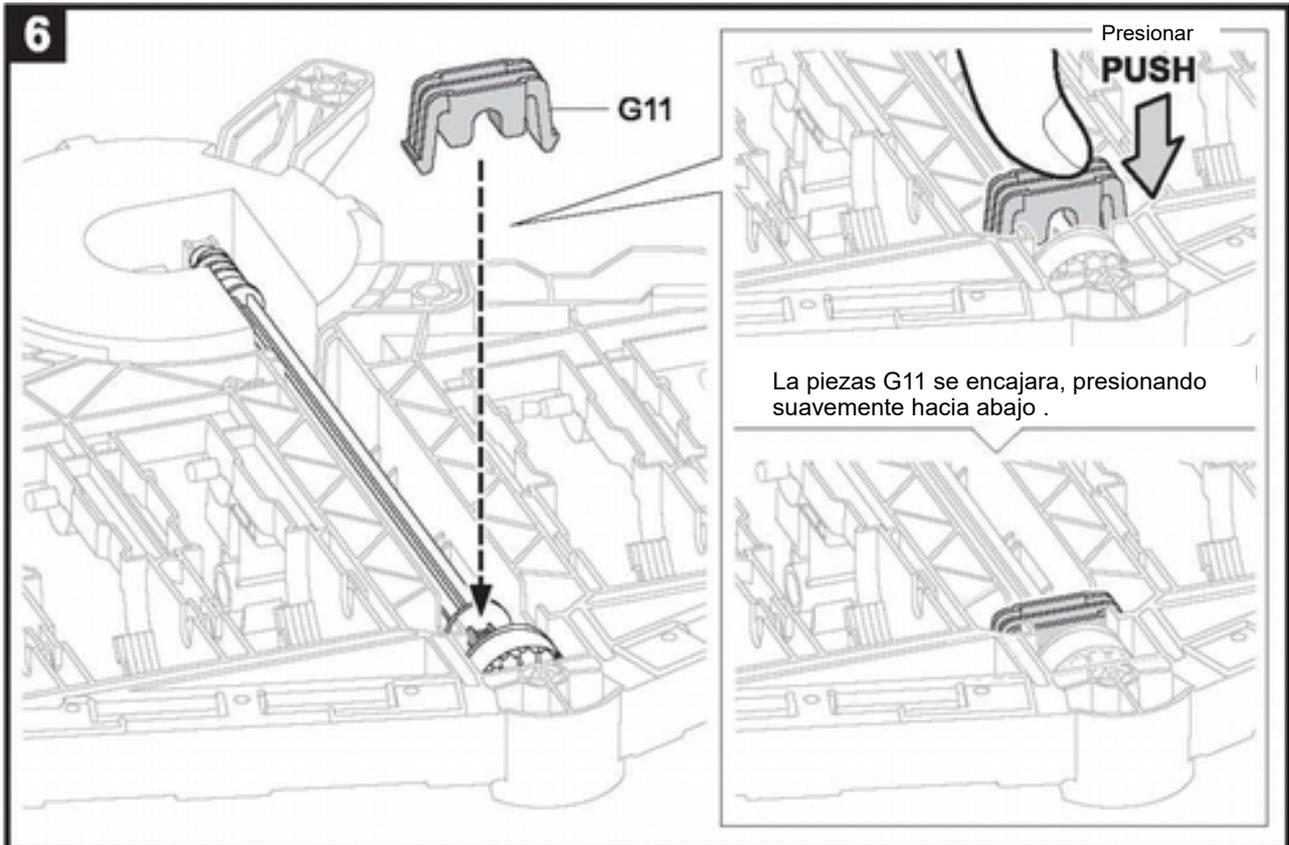
Montaje de la pinza

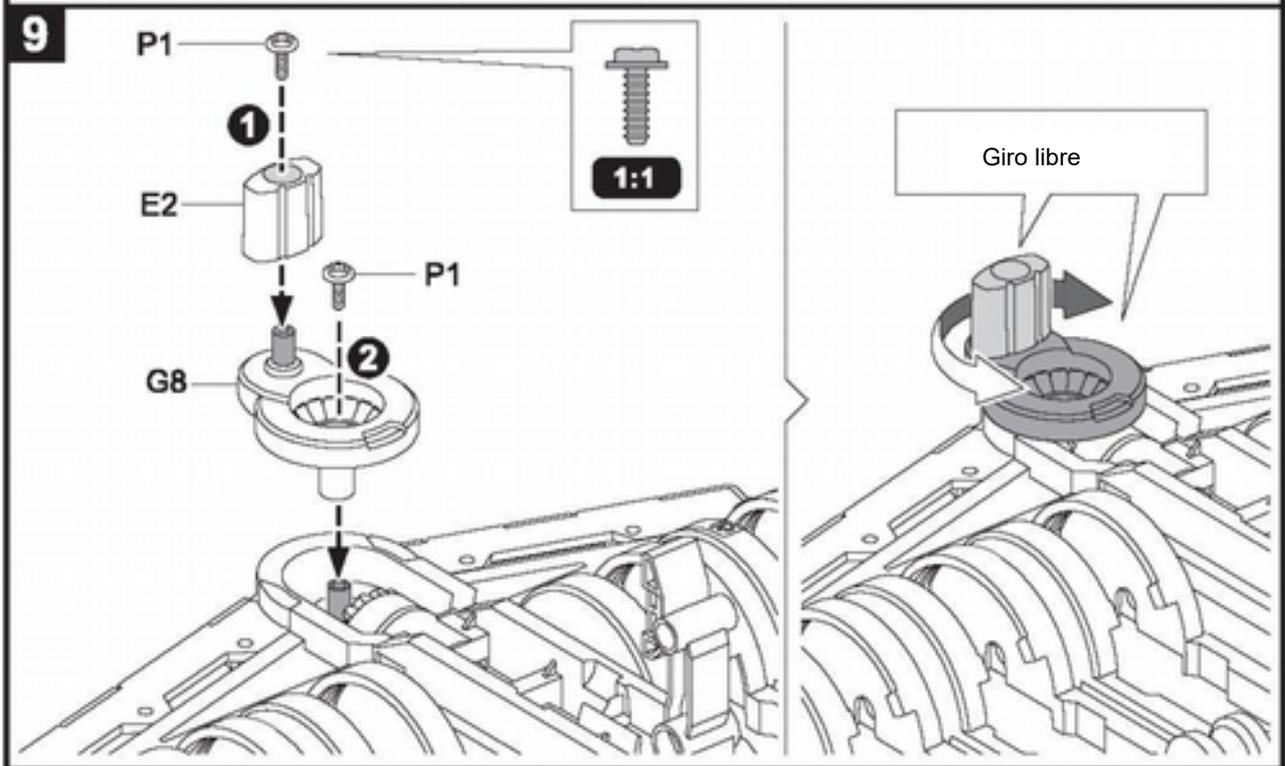
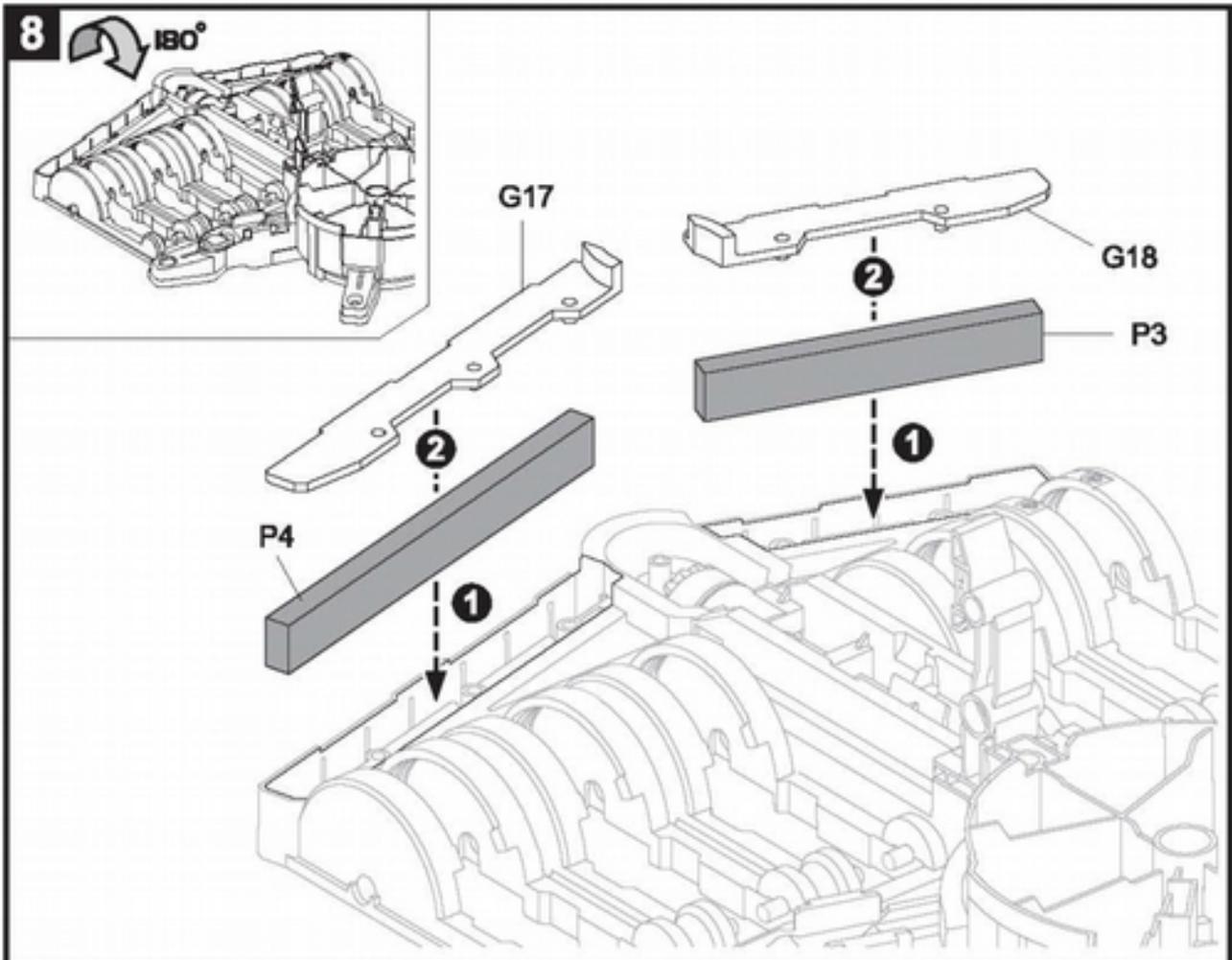




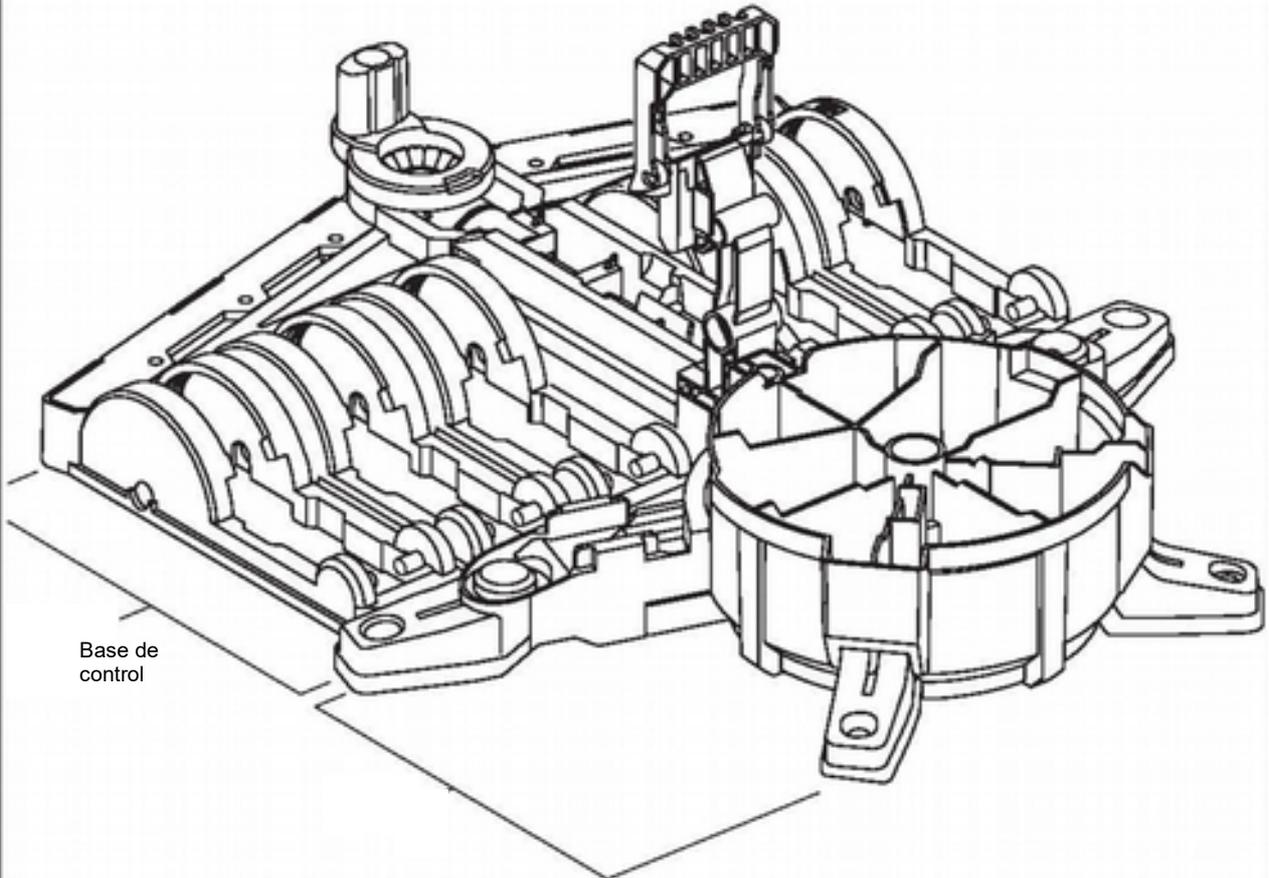
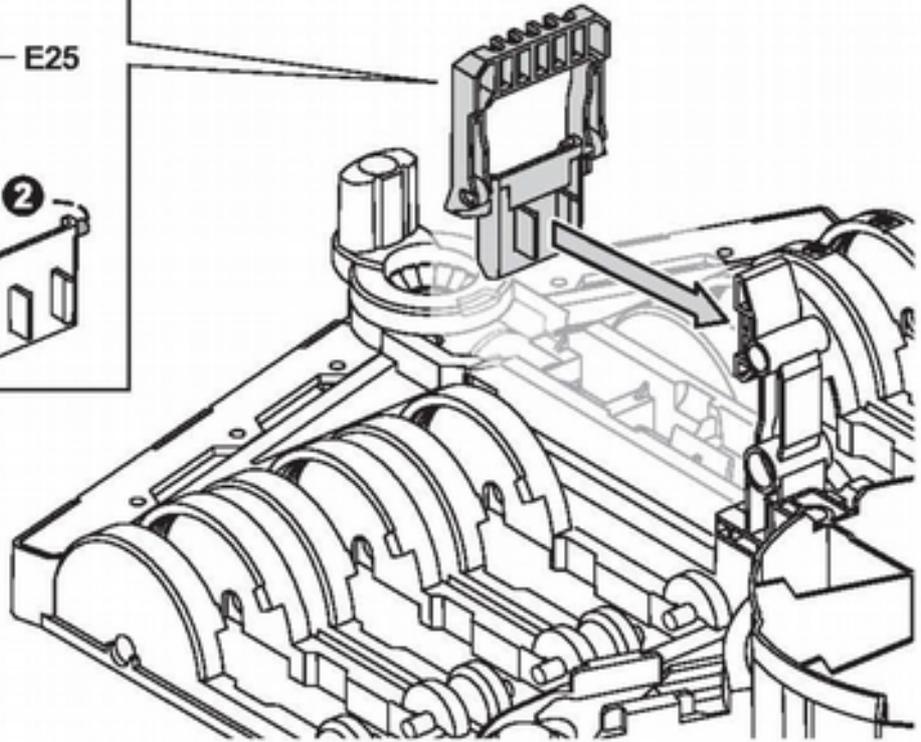
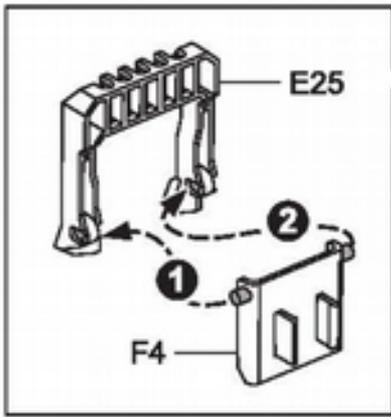






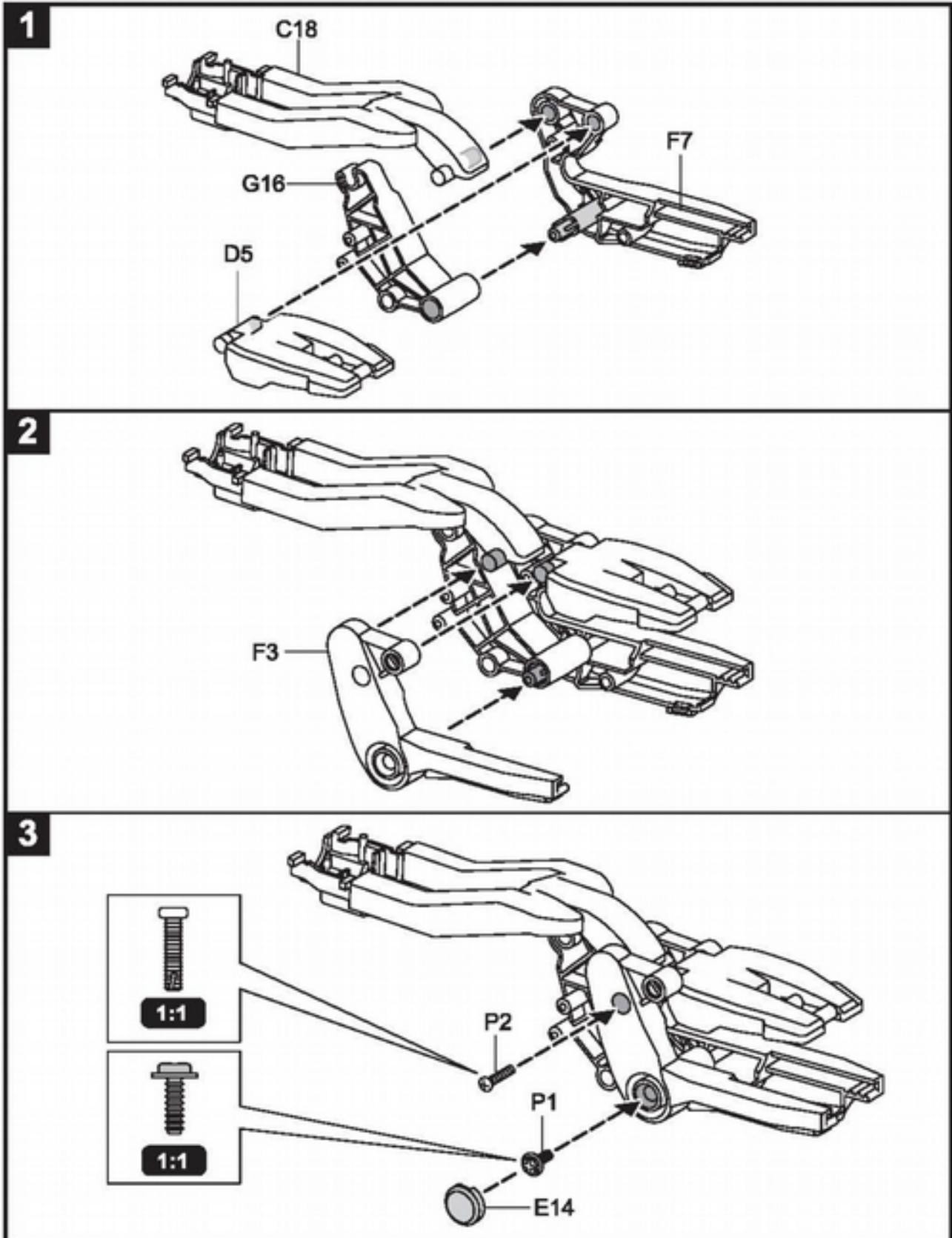


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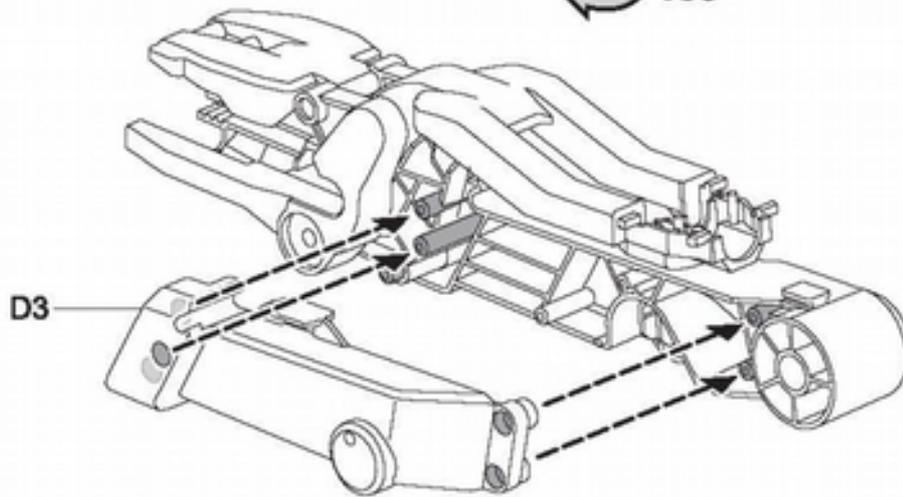
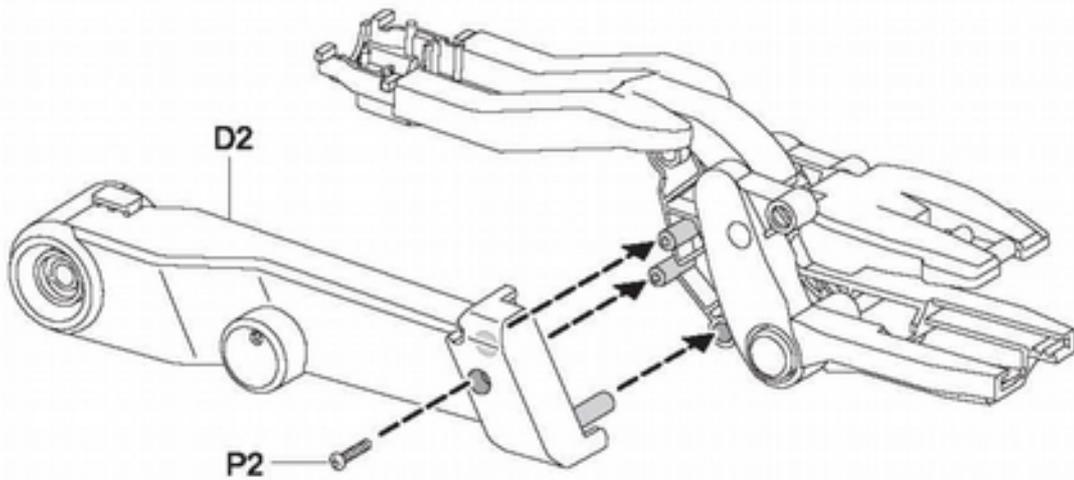


Base de control

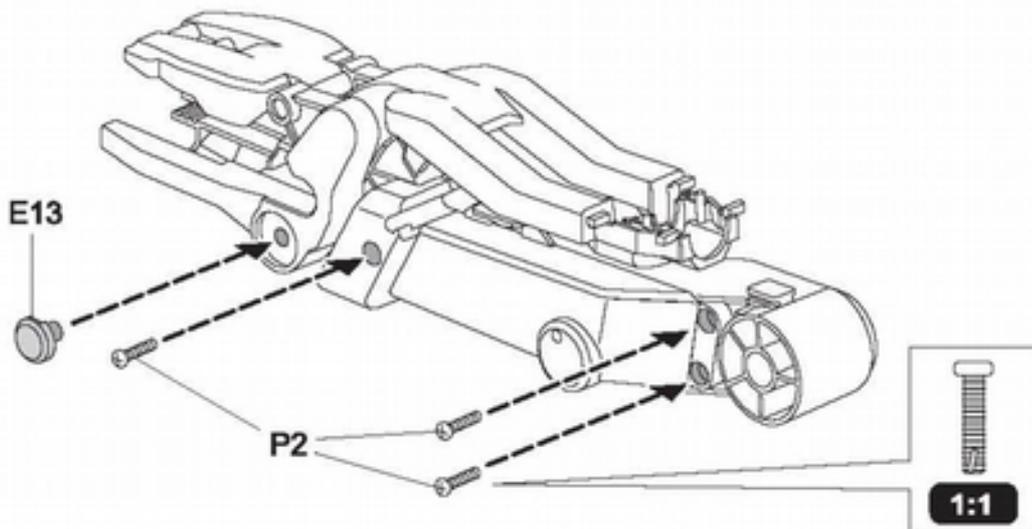
Montaje de la estructura



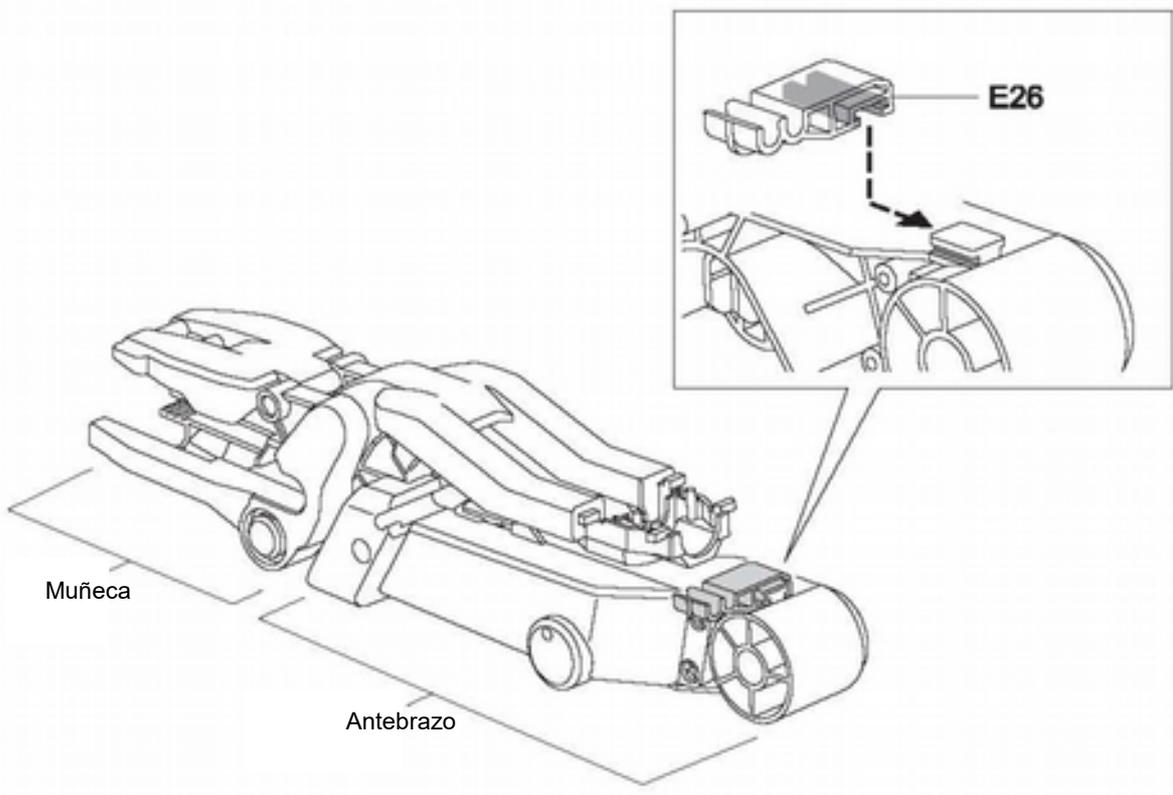
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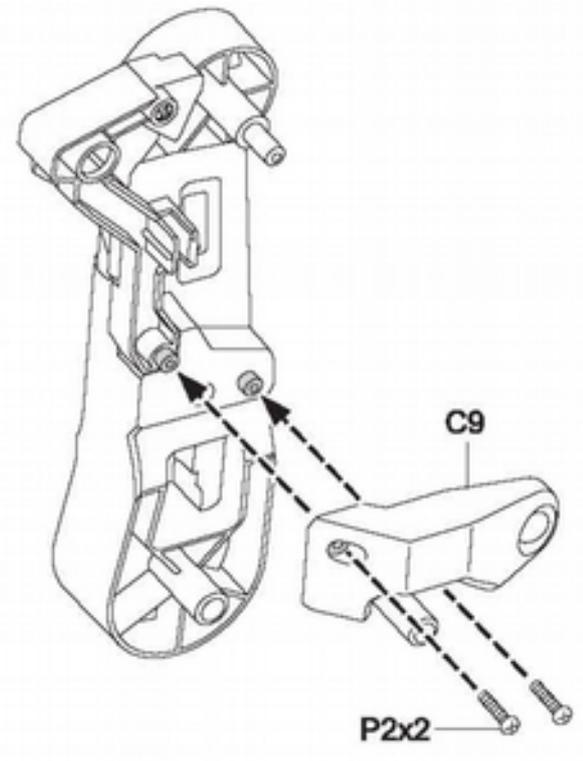
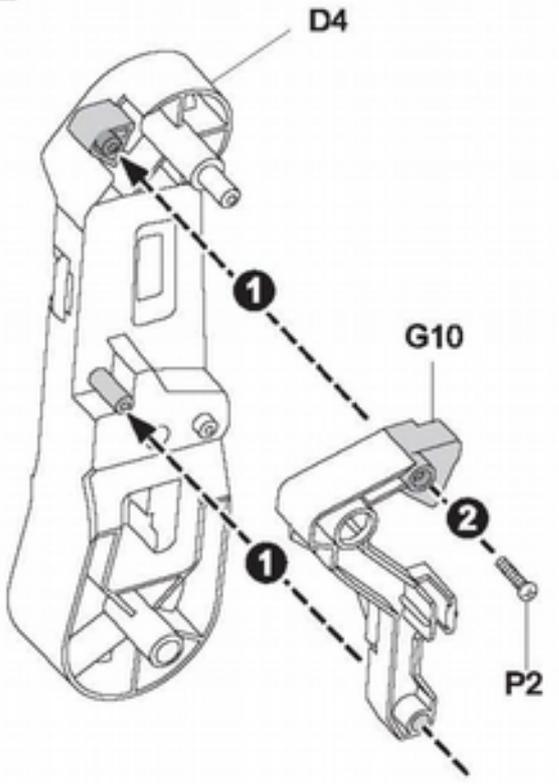
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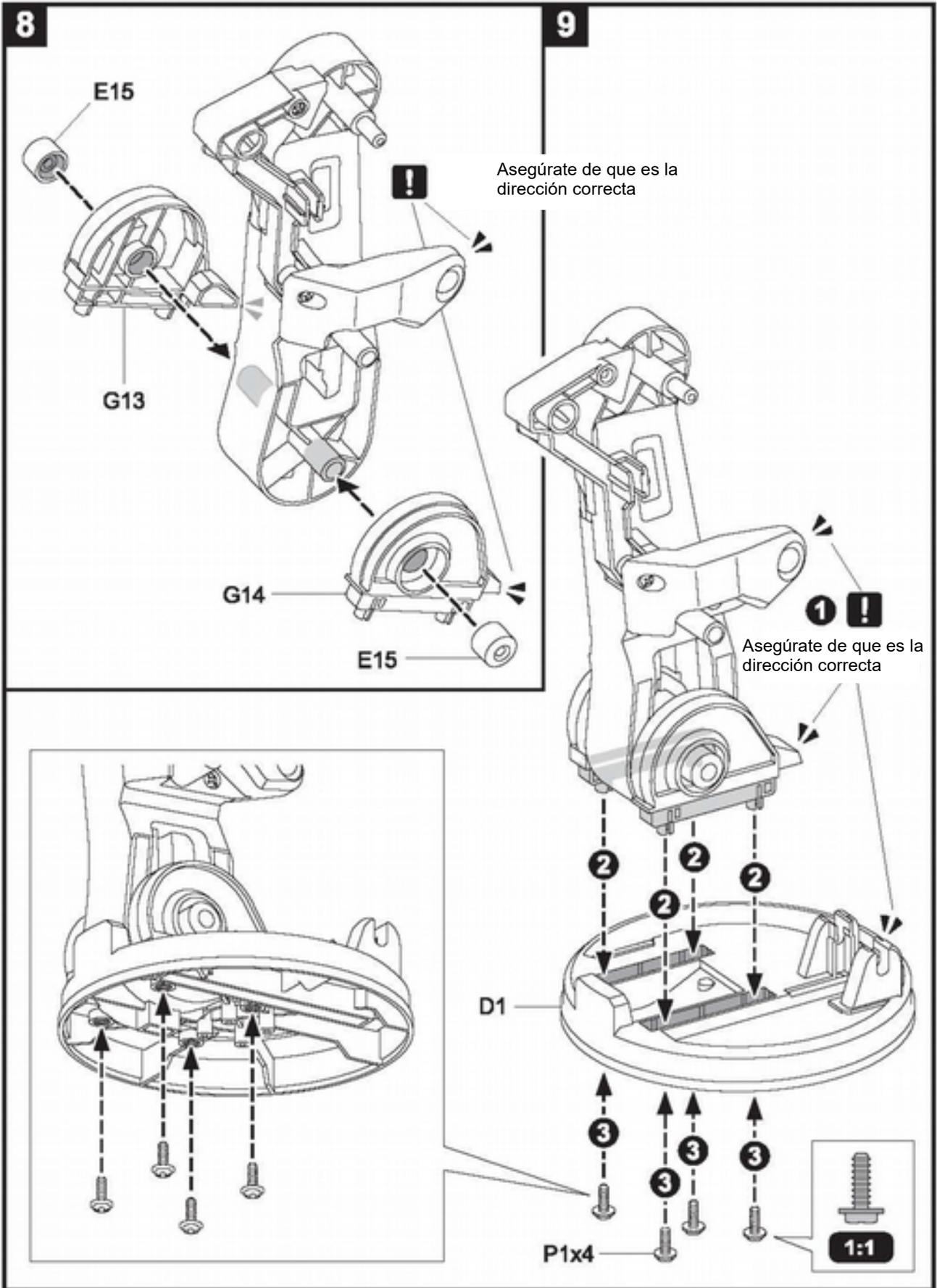


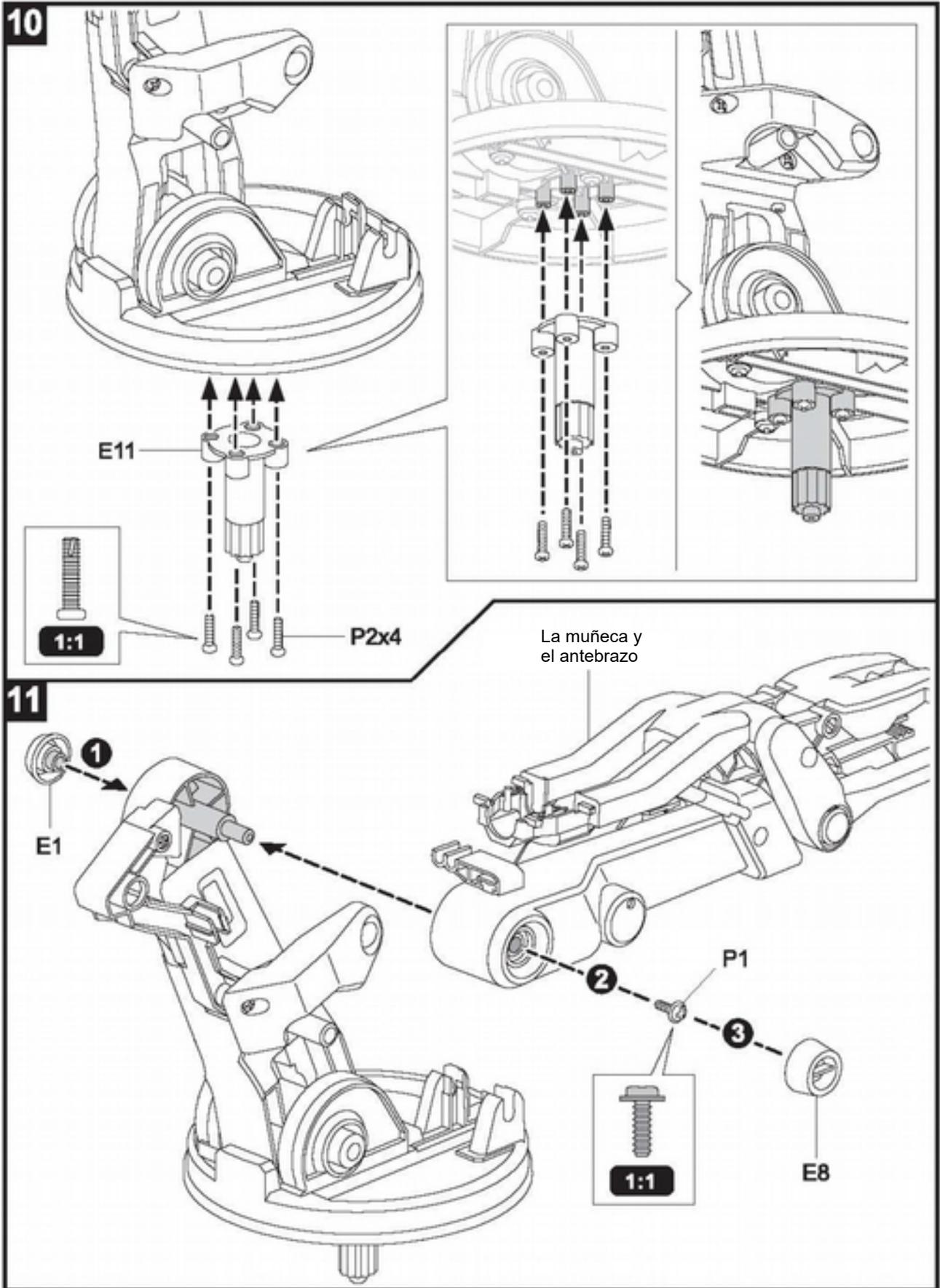
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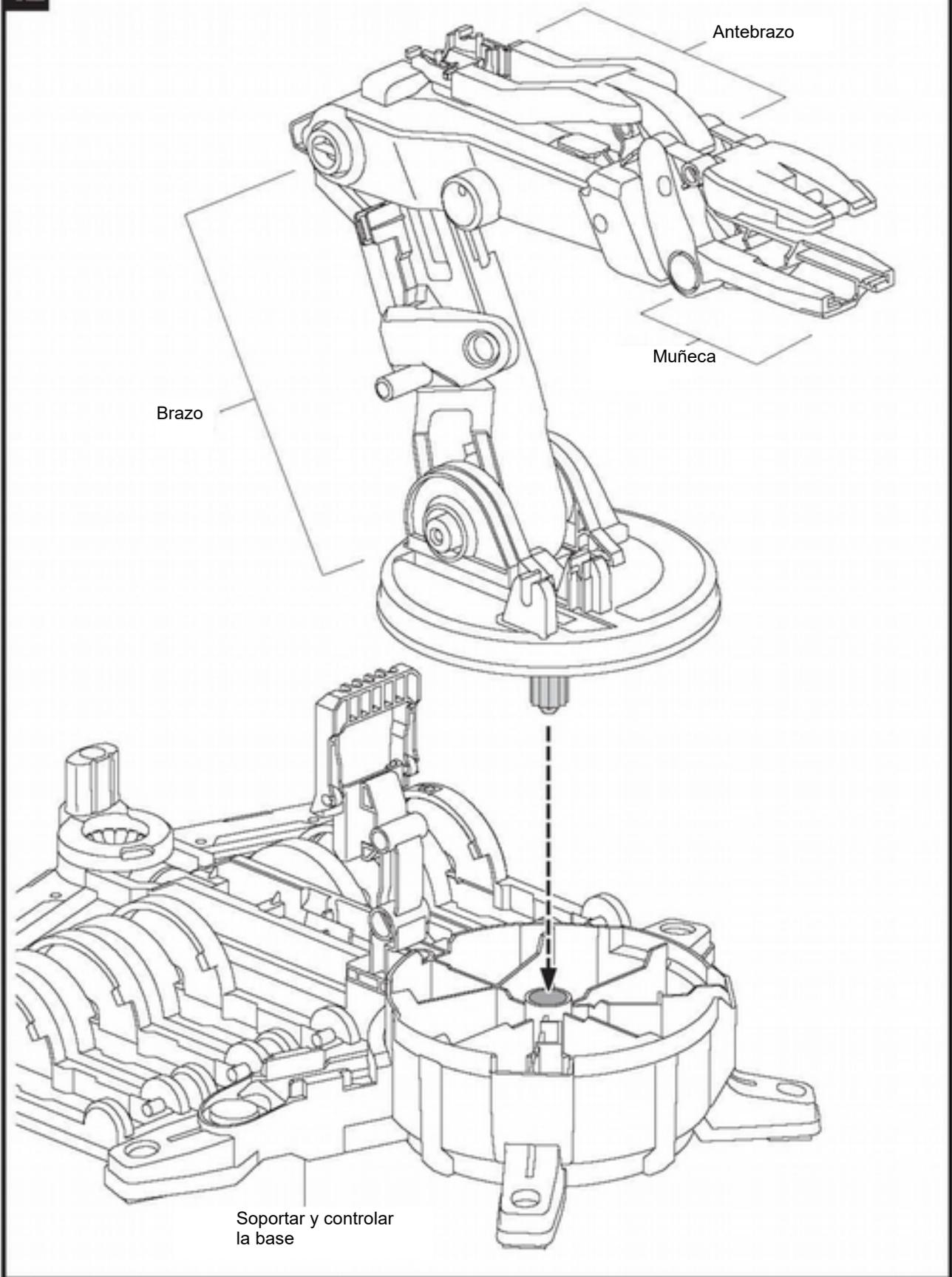
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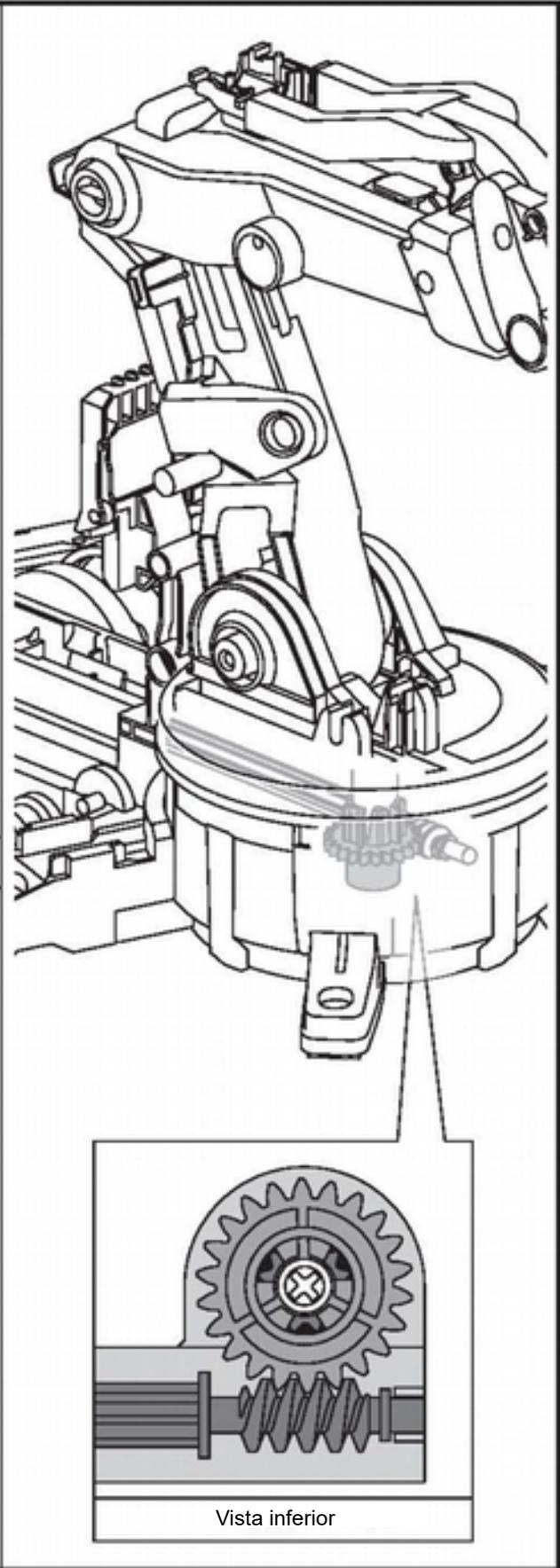
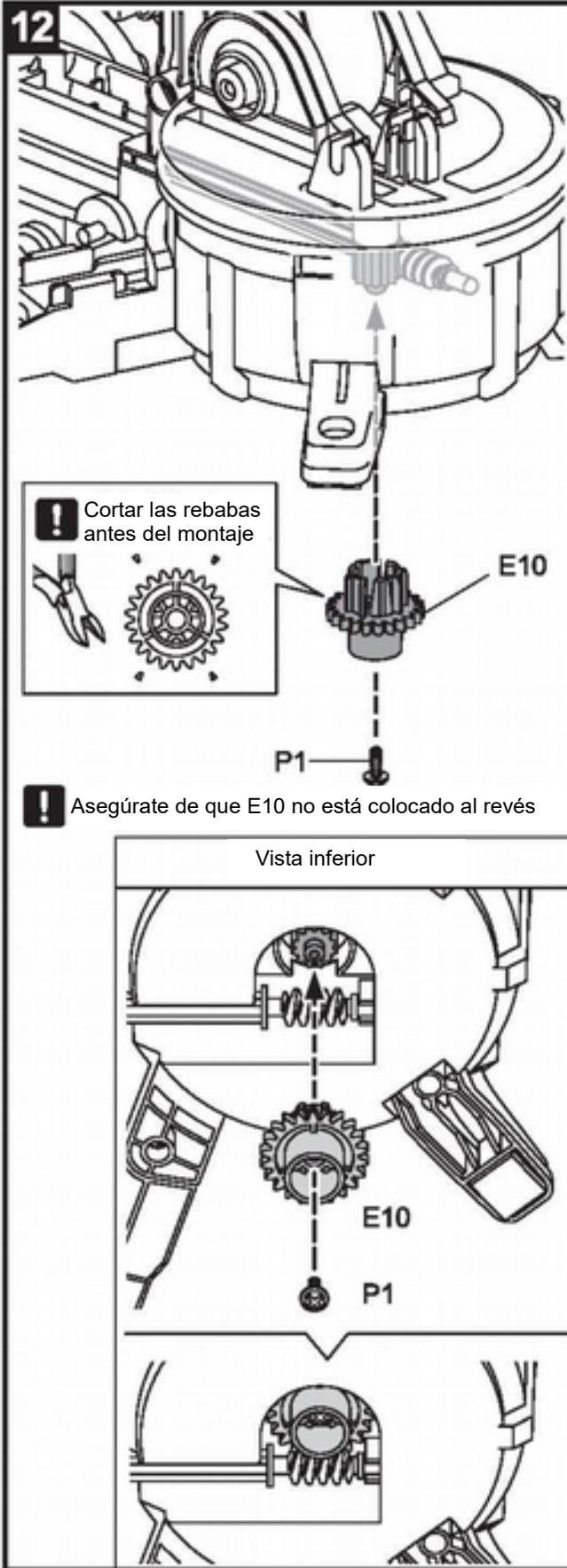






12





Como poner el aceite en las piezas

1

Pañuelo de papel

P15

G9

G7

No verter el aceite en el fregadero. Mantener el aceite en el recipiente.

2

= Aplicar aceite

! No poner el aceite fuera de la sombra, como puedes ver en la imagen

H0-H5 montaje de cilindros

H0 montaje de cilindros

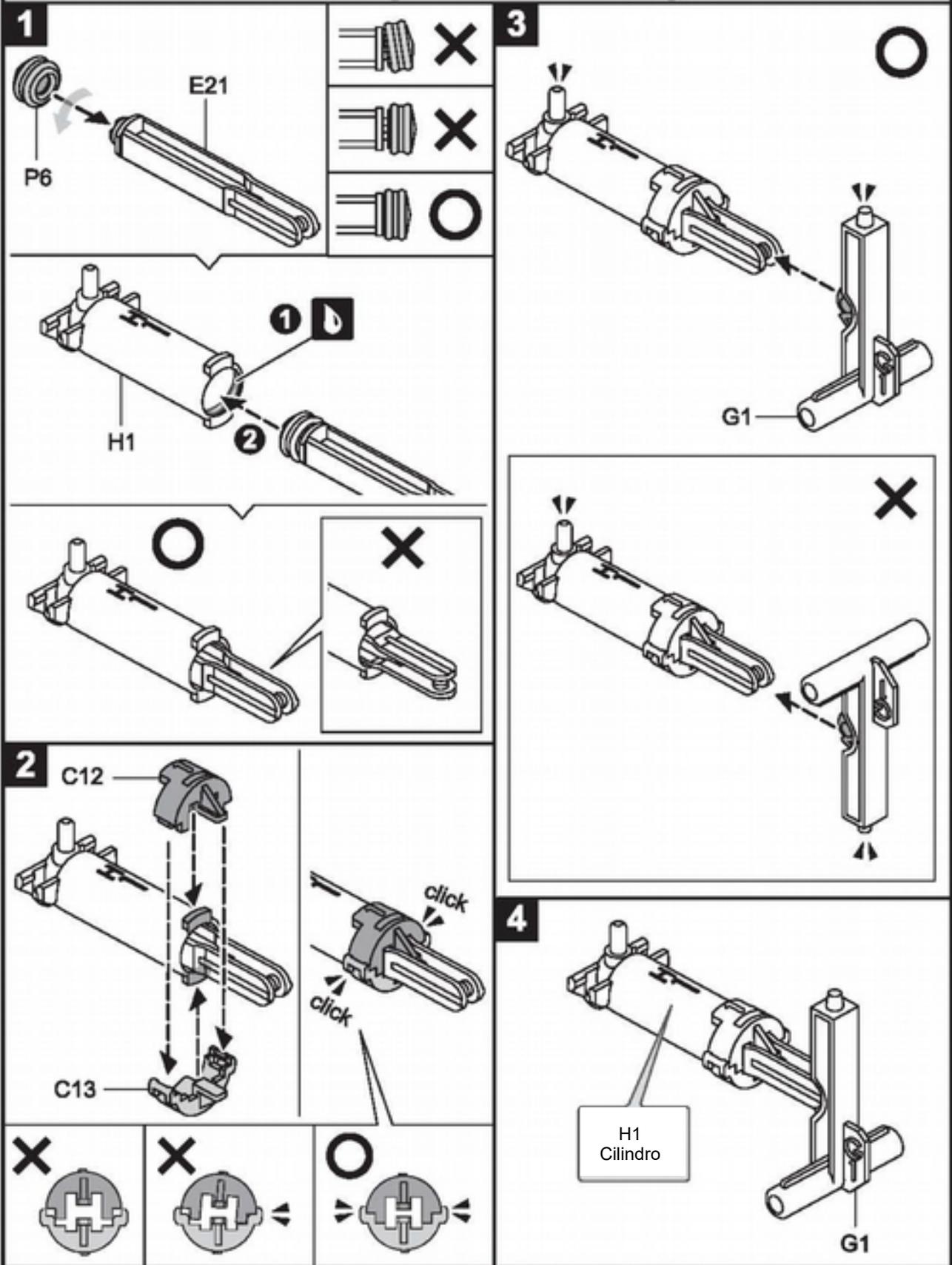
E6

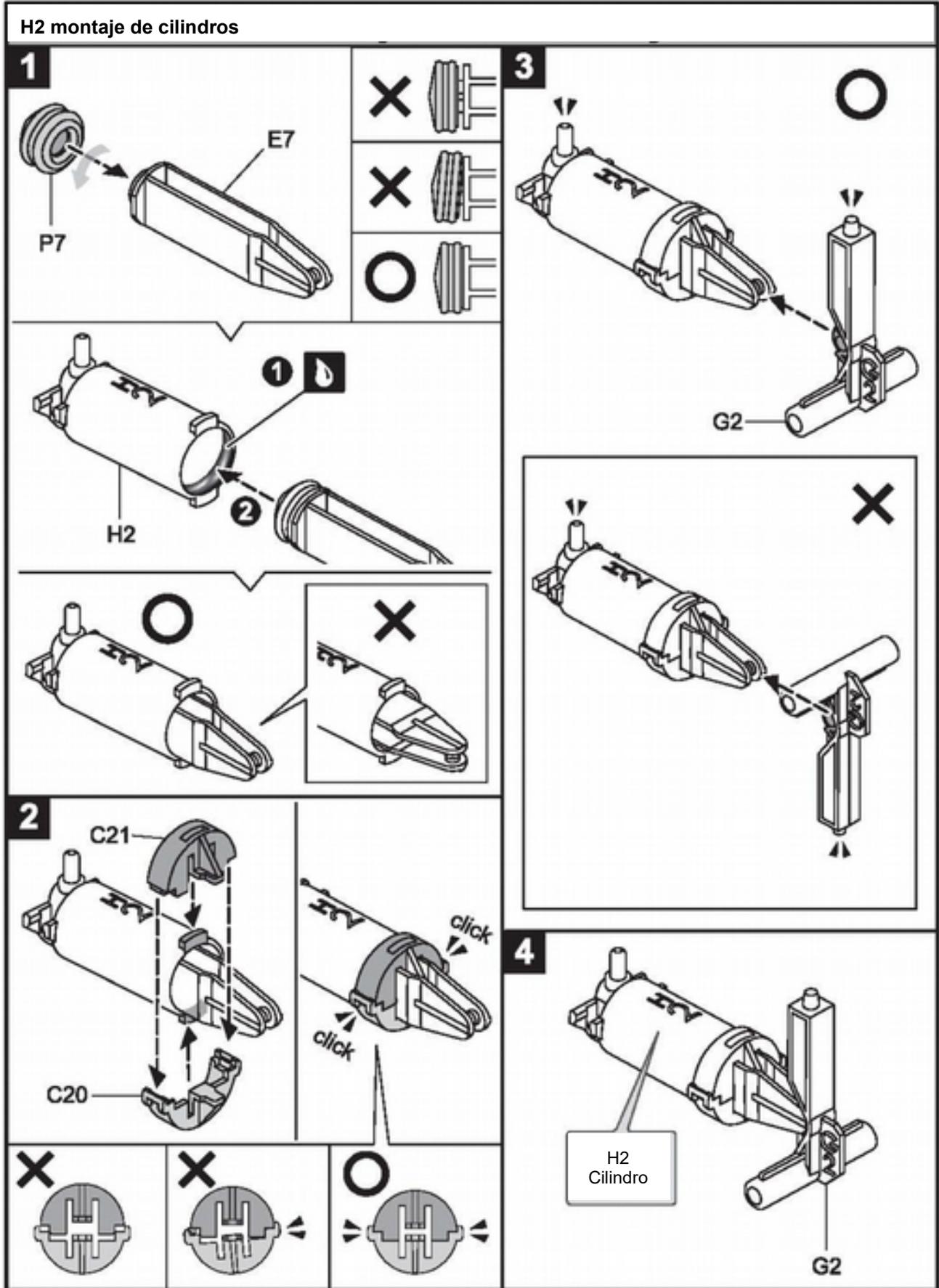
P6

H0

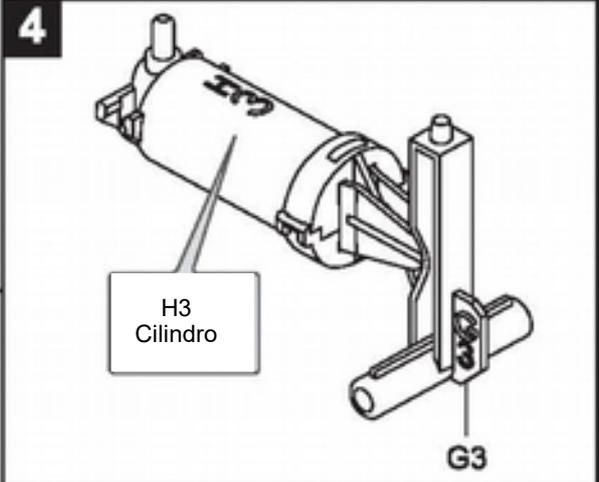
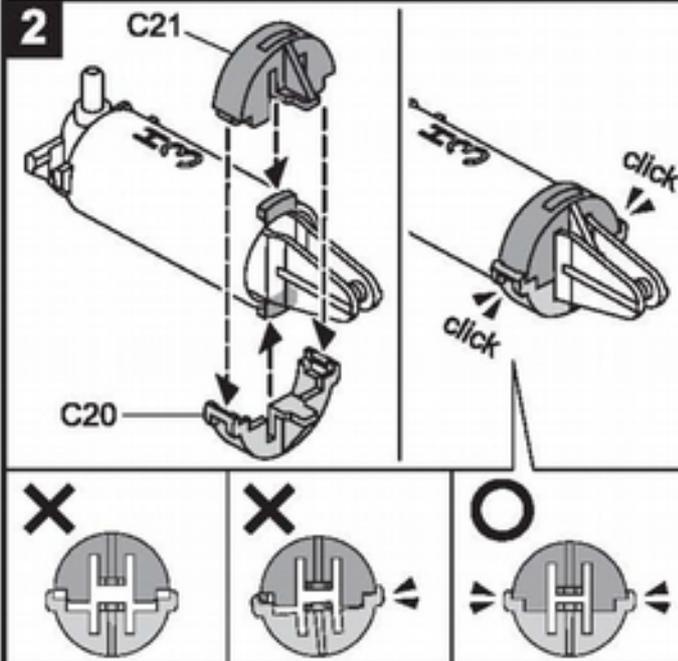
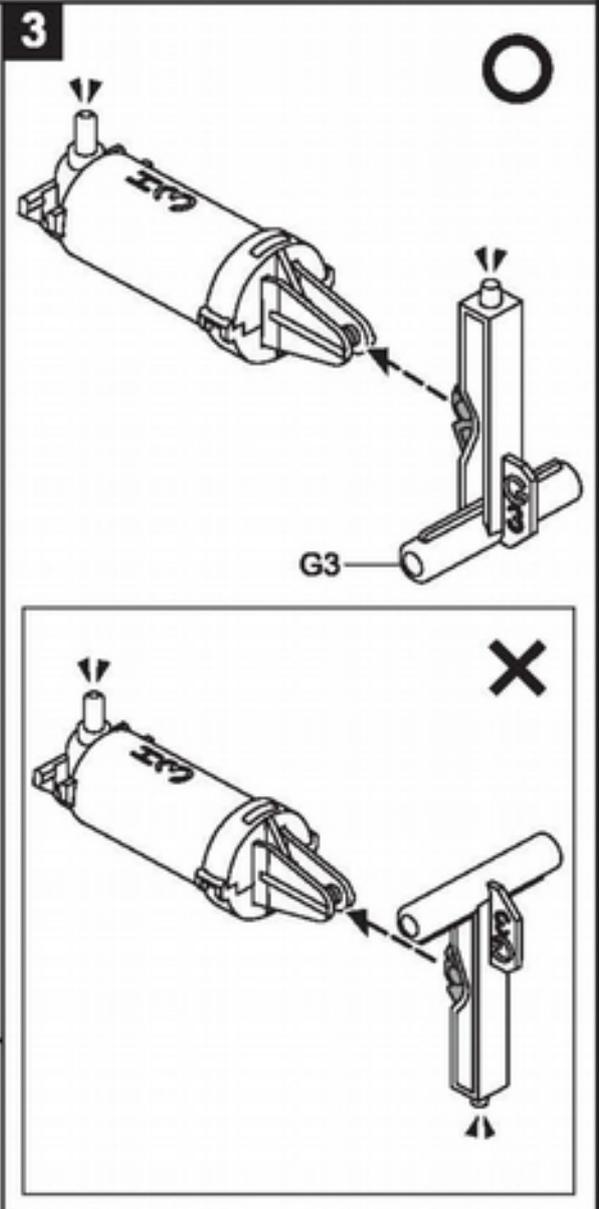
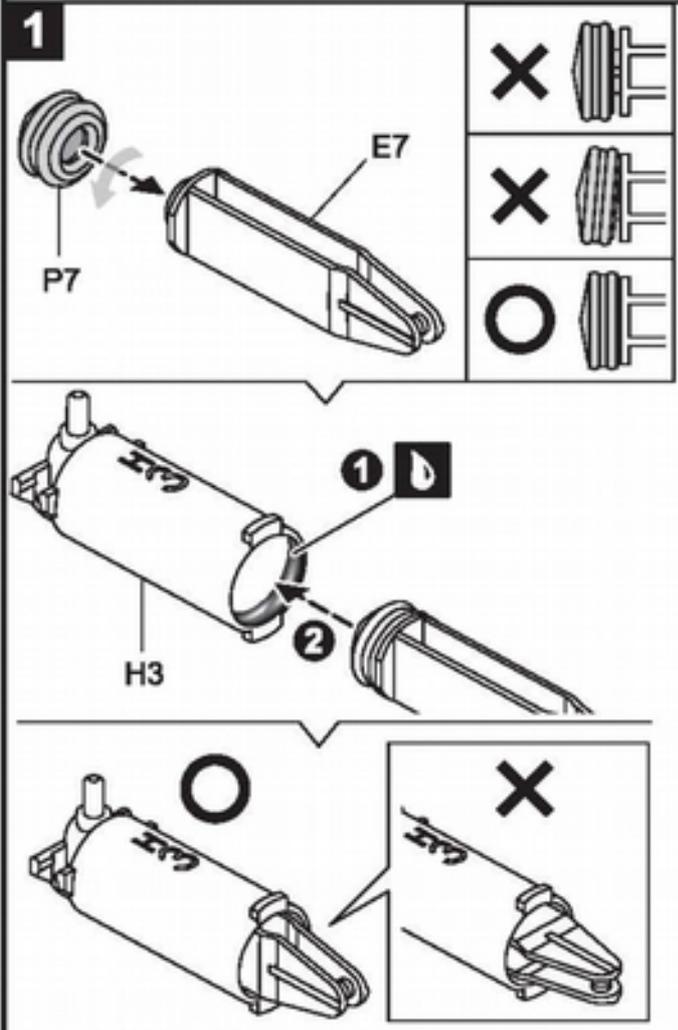
H0 Cilindro

H1 montaje de cilindros

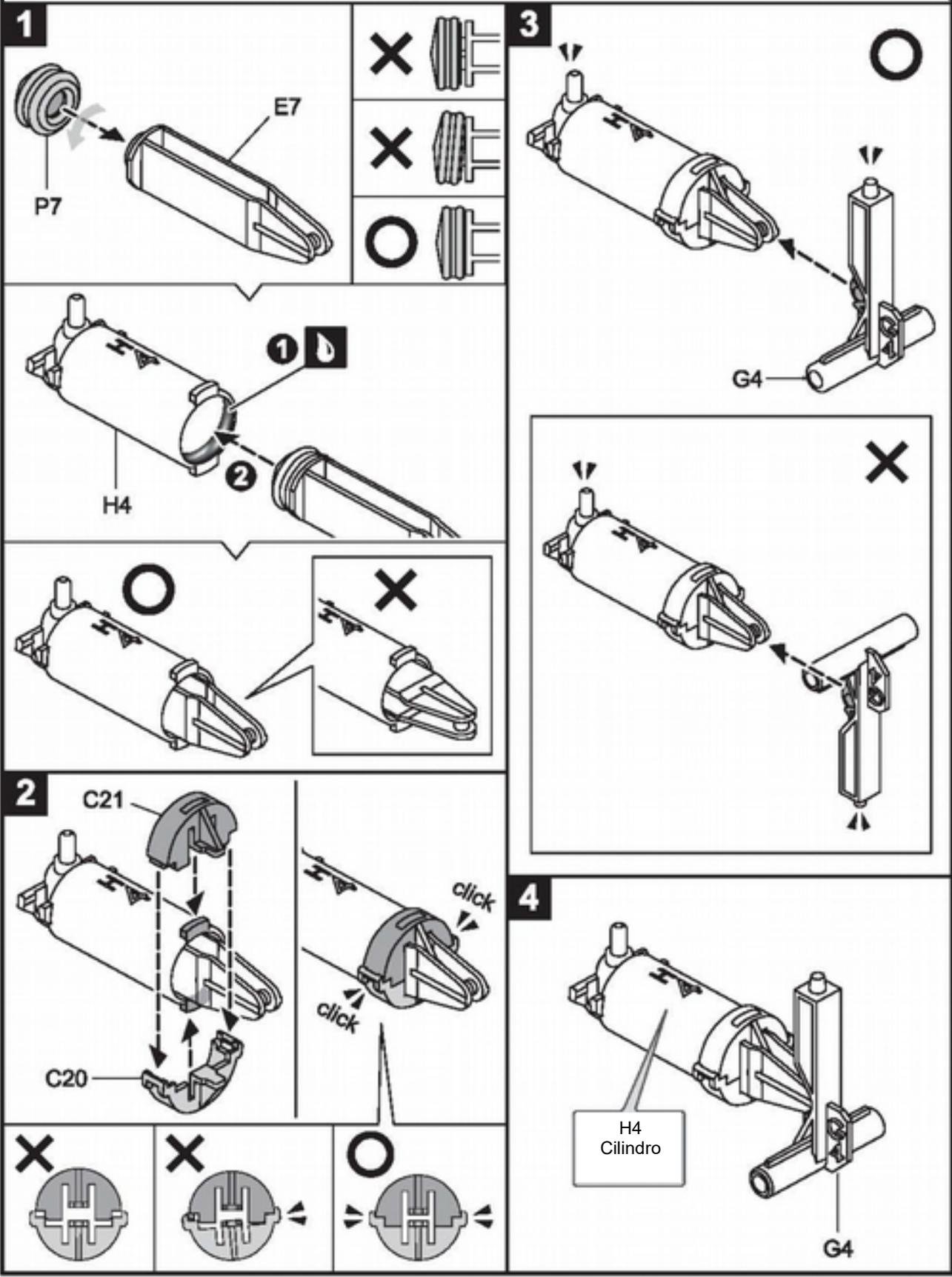




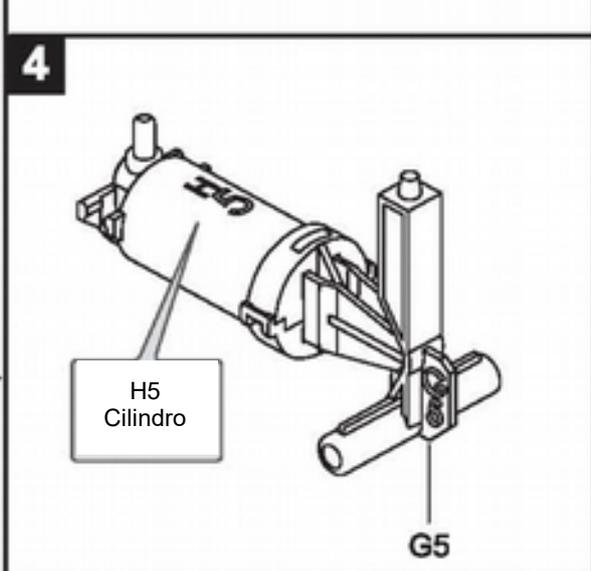
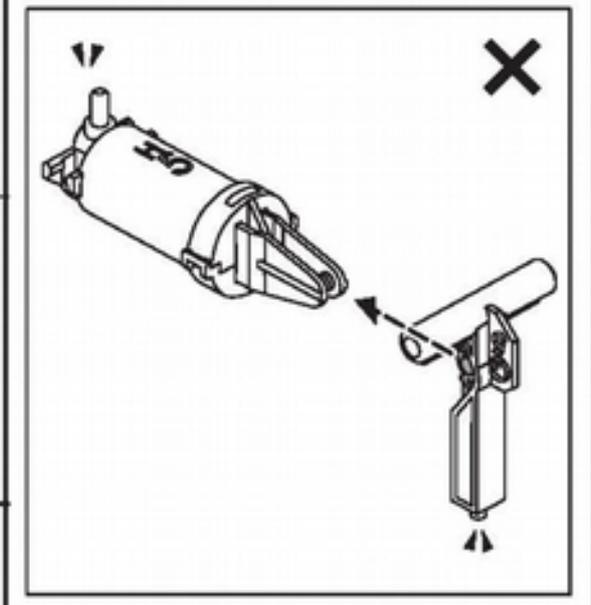
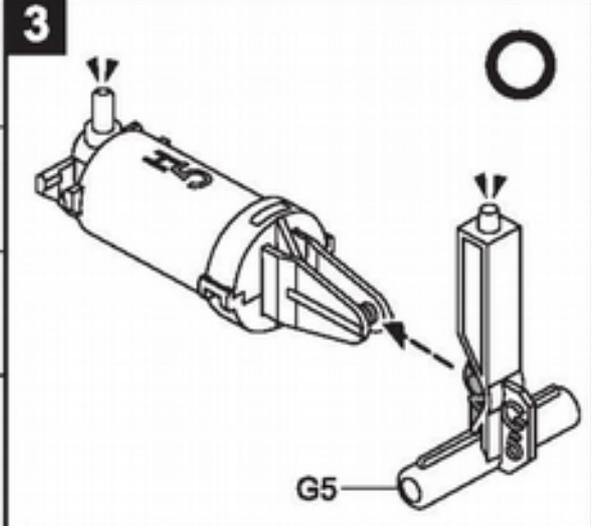
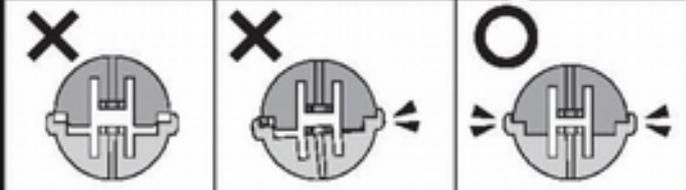
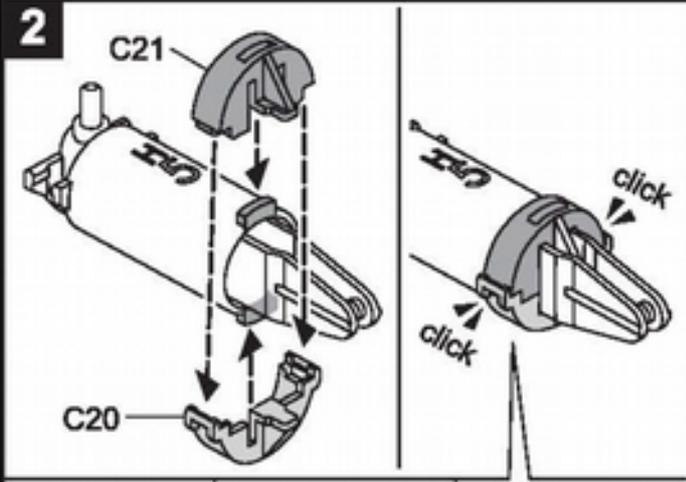
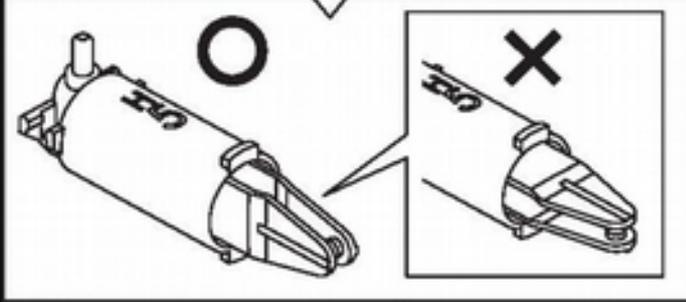
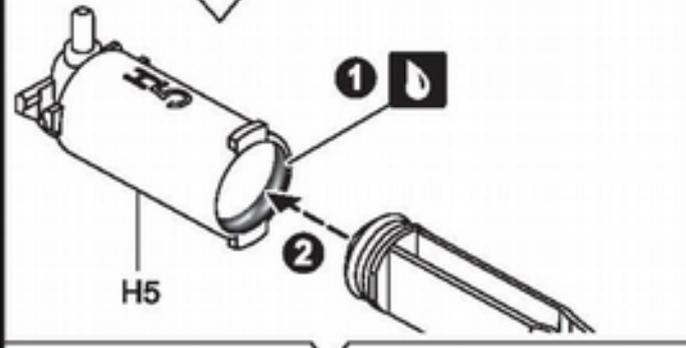
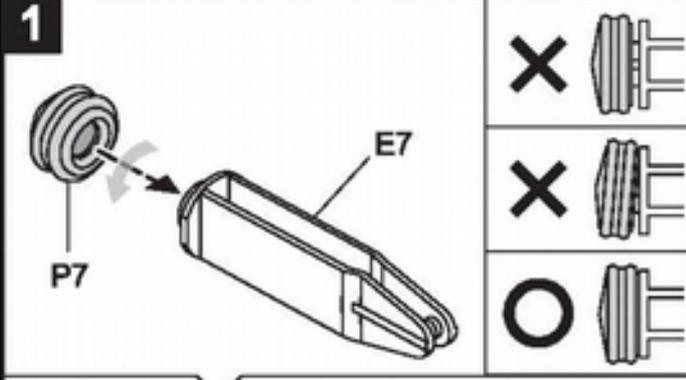
H3 montaje de cilindros



H4 montaje de cilindros



H5 montaje de cilindros



I1 - I5 montaje de cilindros

I1 y I2 cilindro

1

E27 P7 I2

2

A6 P13

Asegúrate de que es la dirección correcta

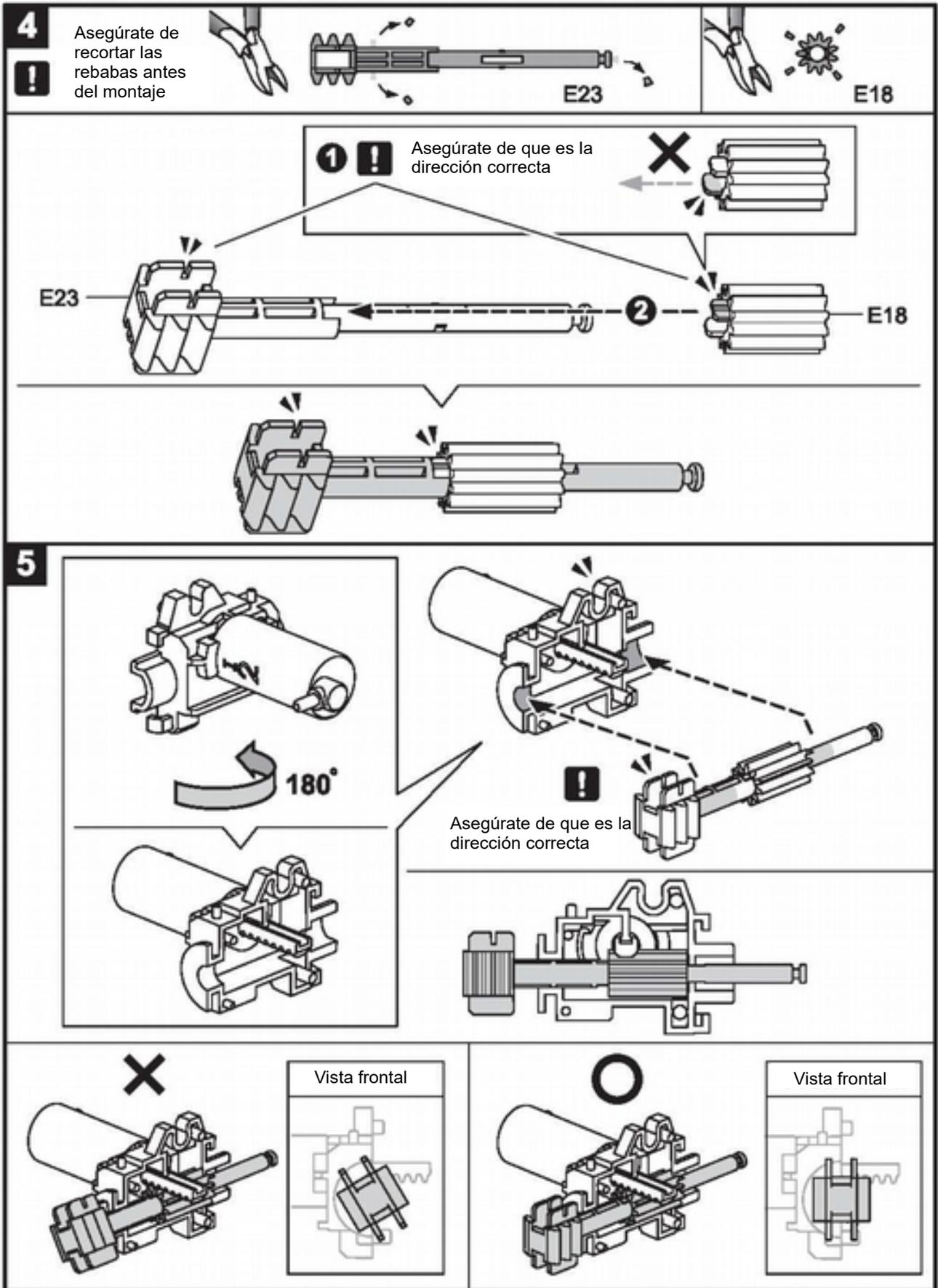
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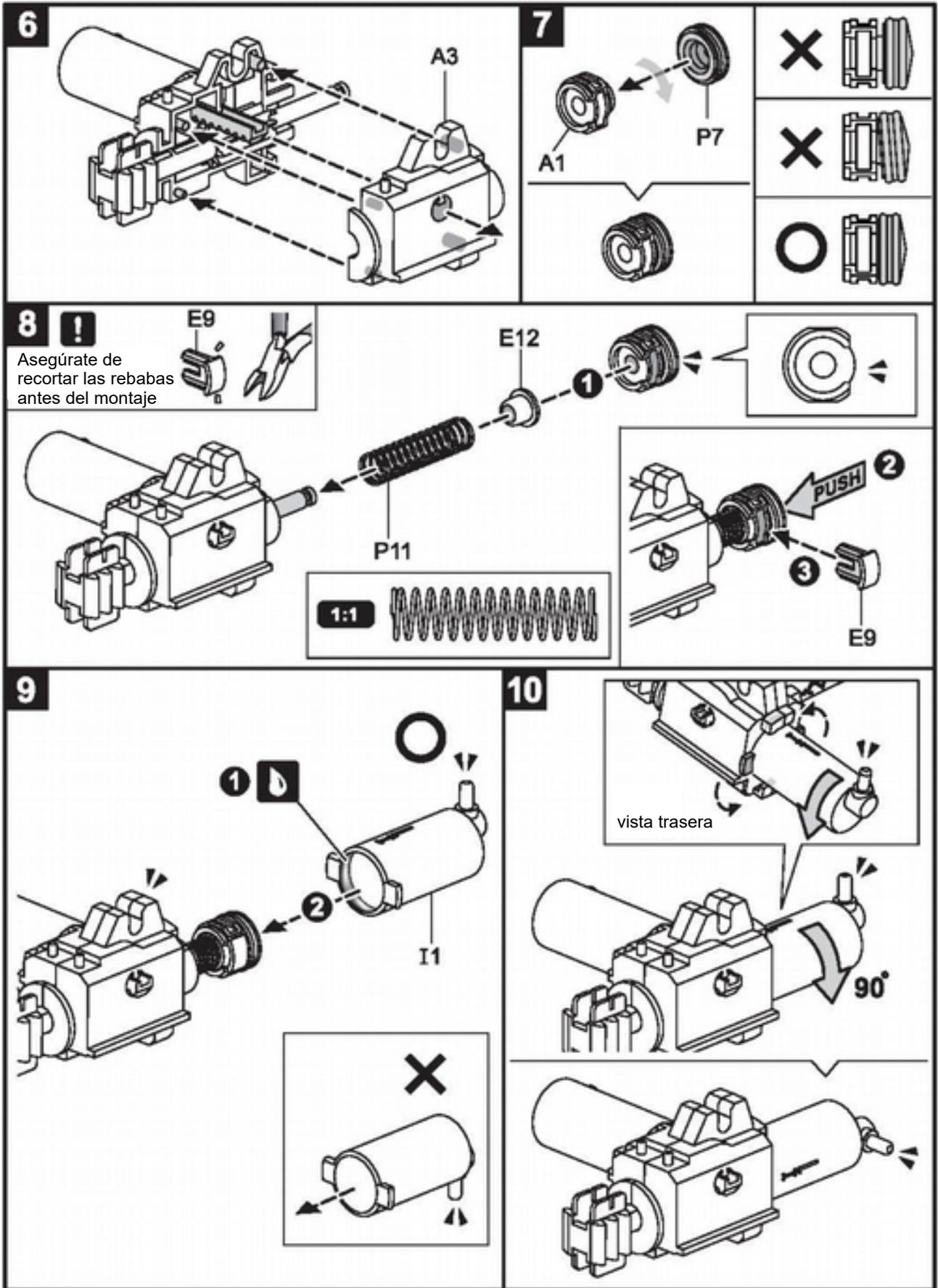
3

empujar

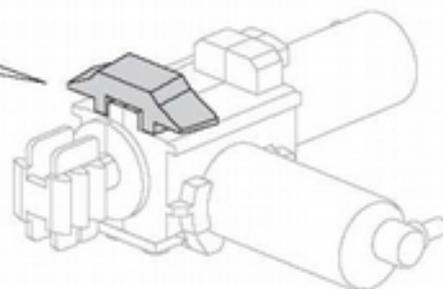
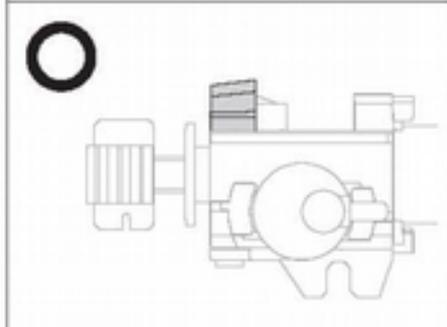
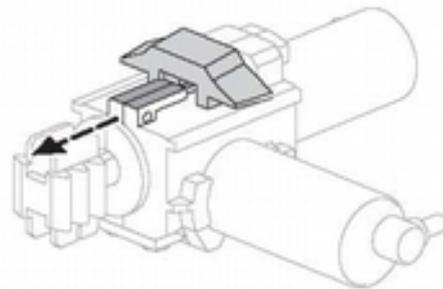
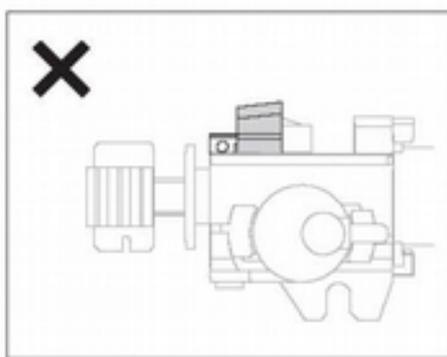
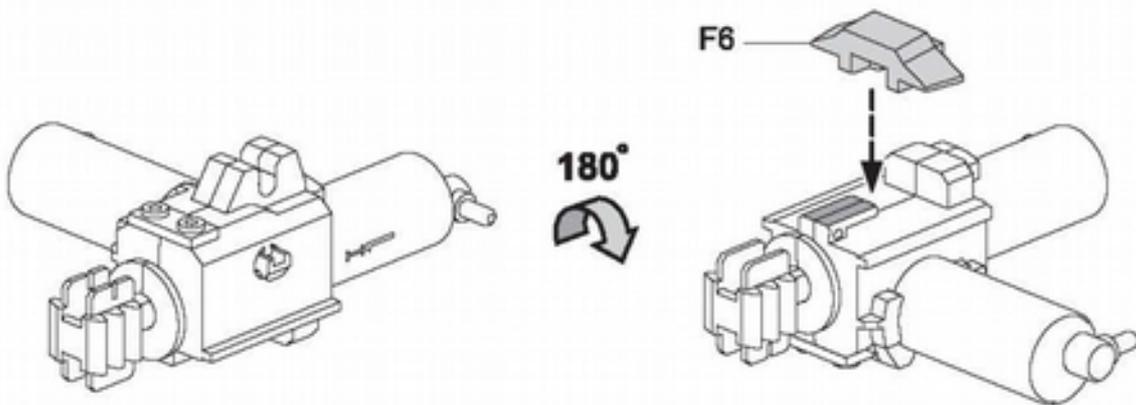
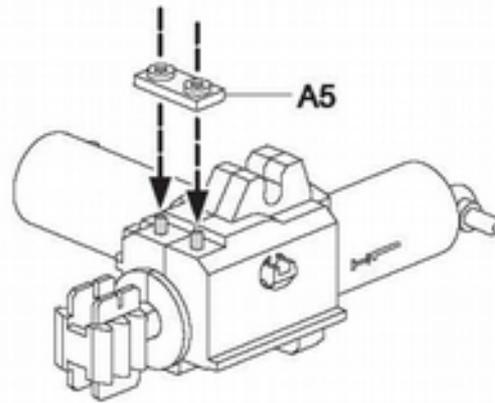
90°

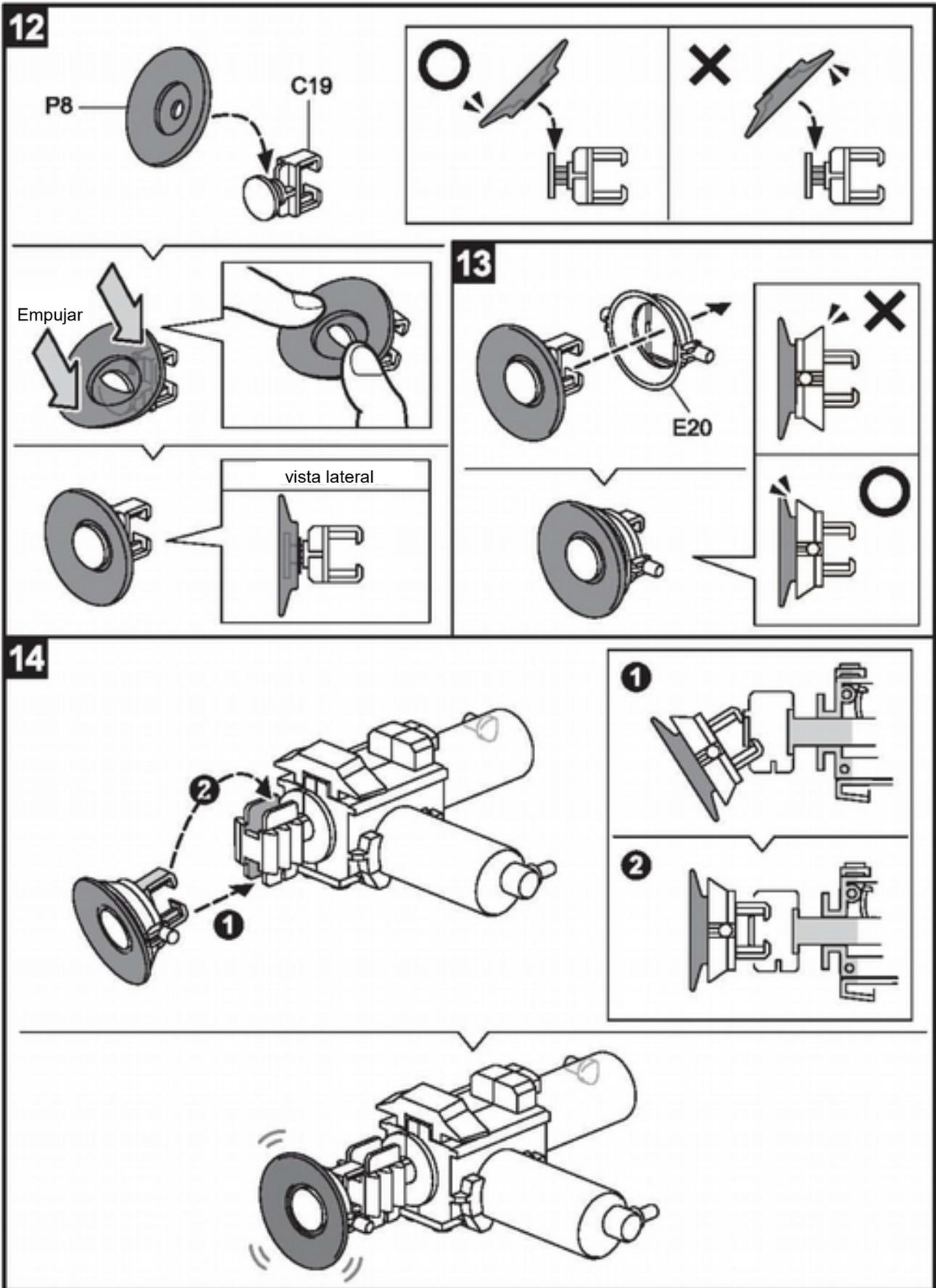
Asegúrate de que es la dirección correcta



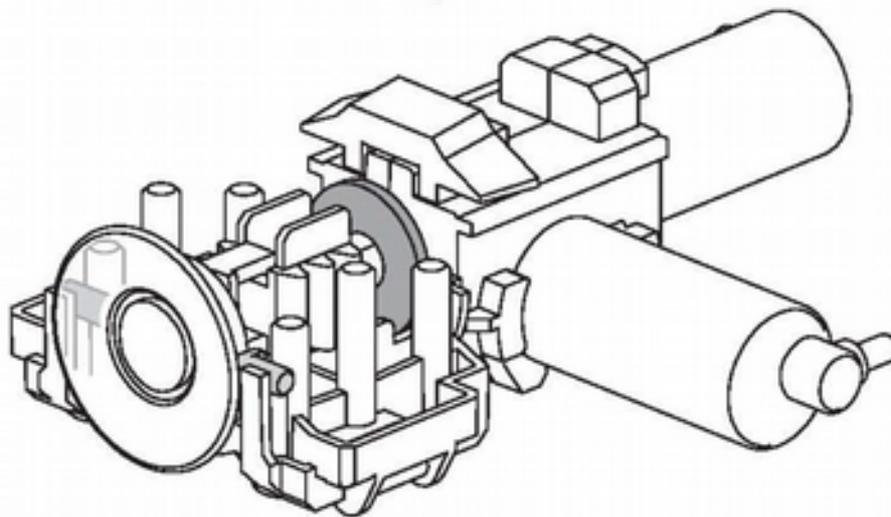
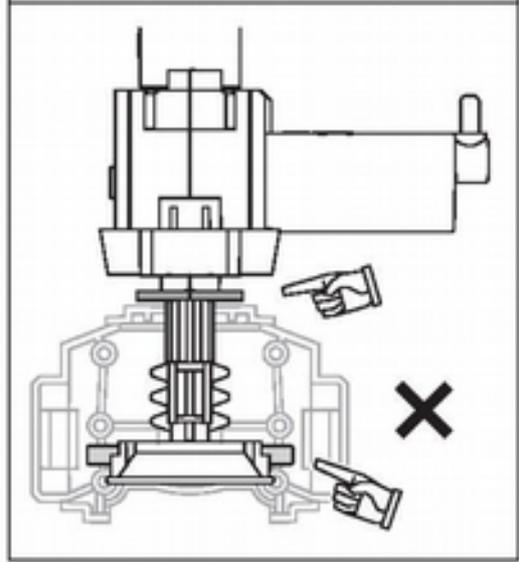
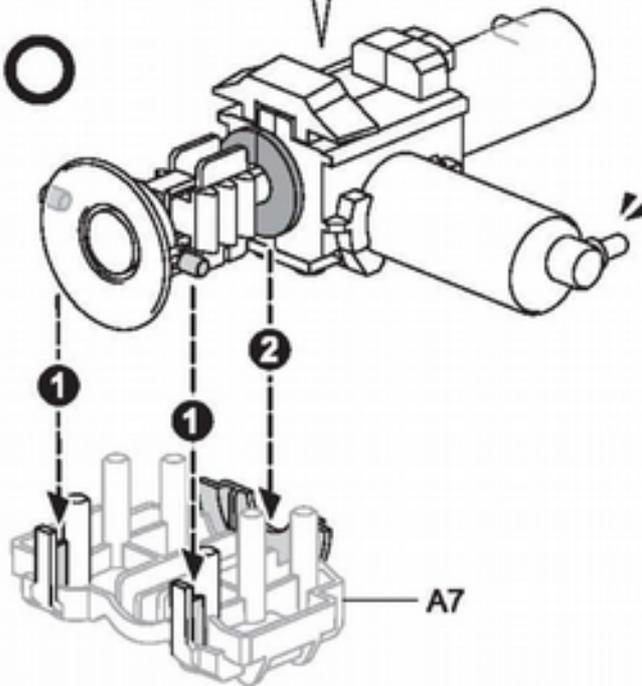
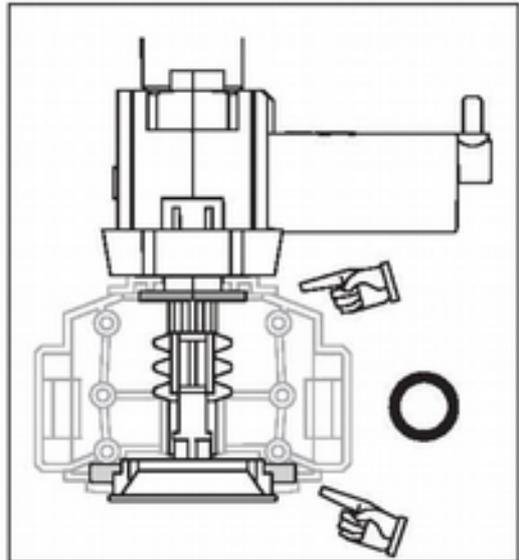
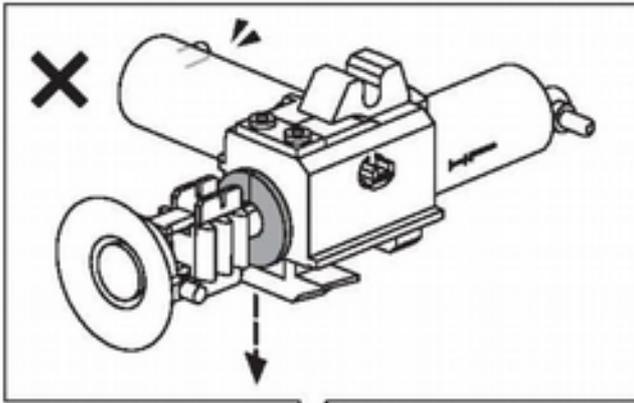


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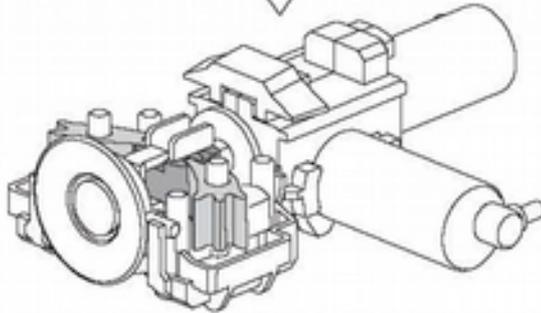
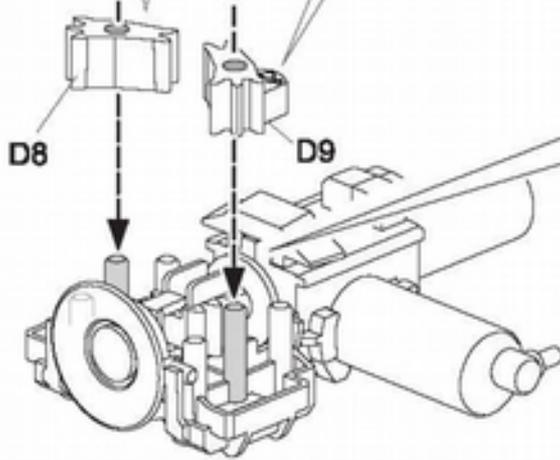
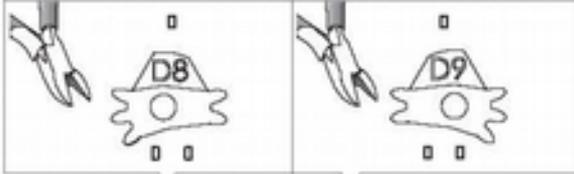


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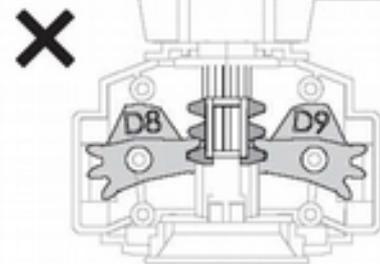
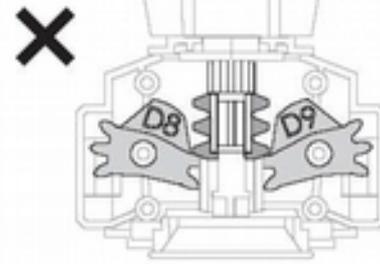
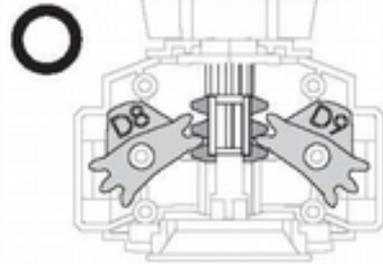


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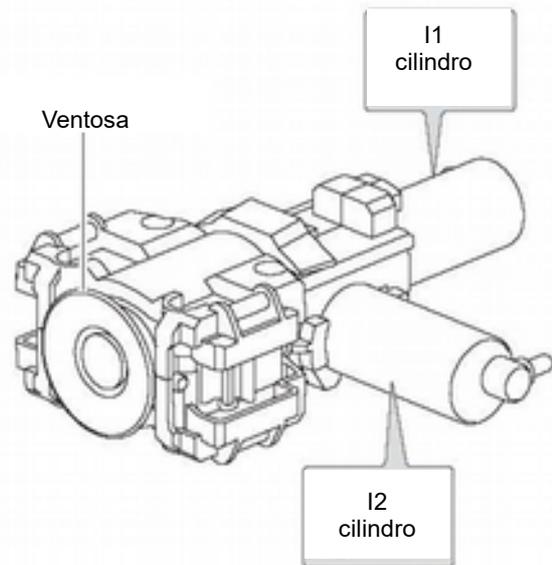
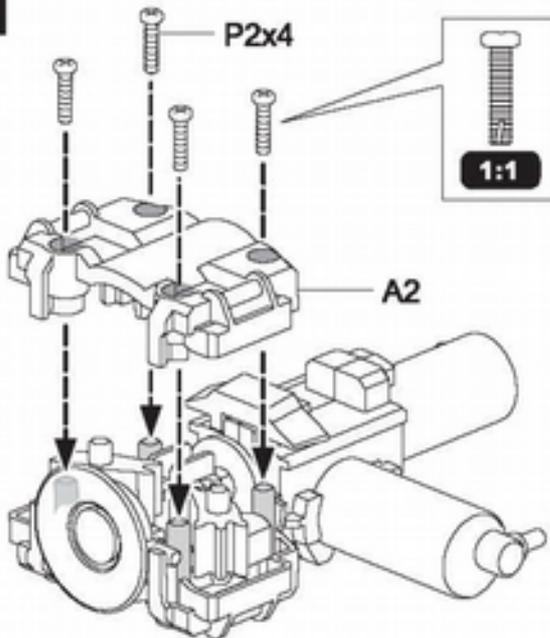
! recortar las rebabas antes del montaje

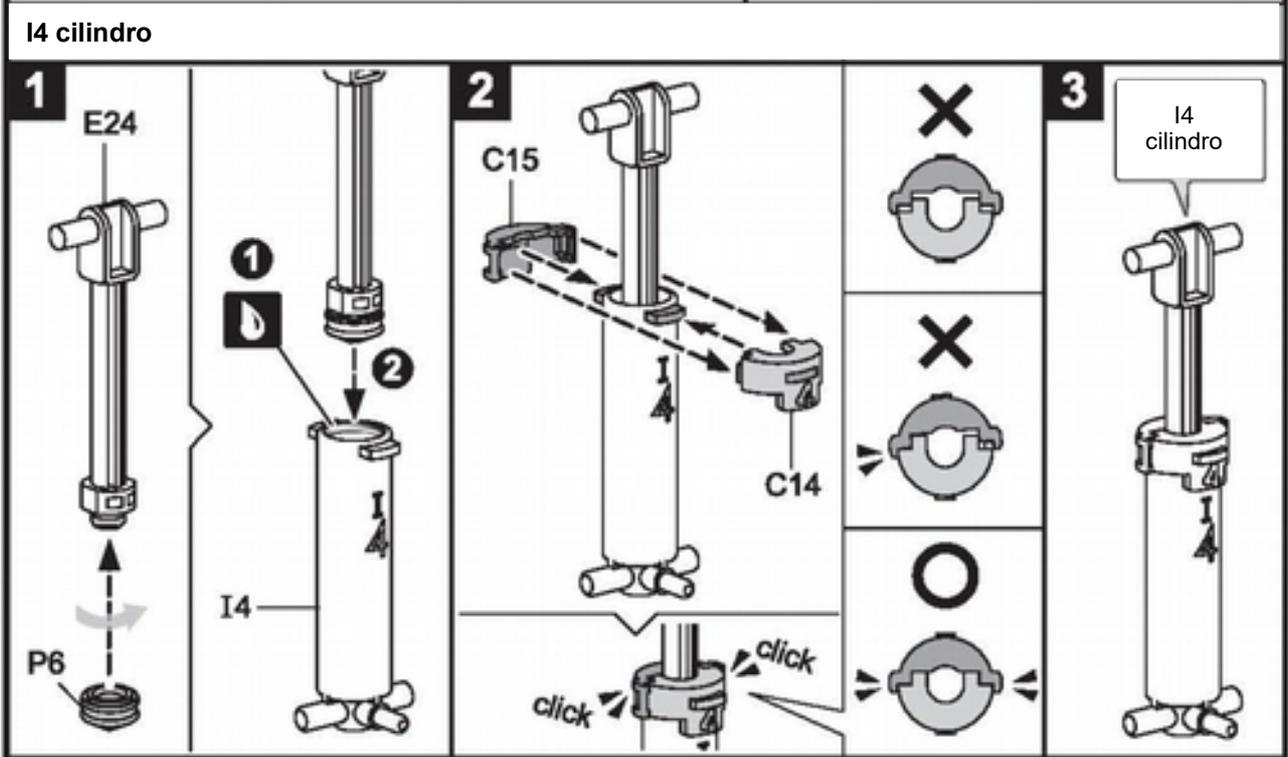
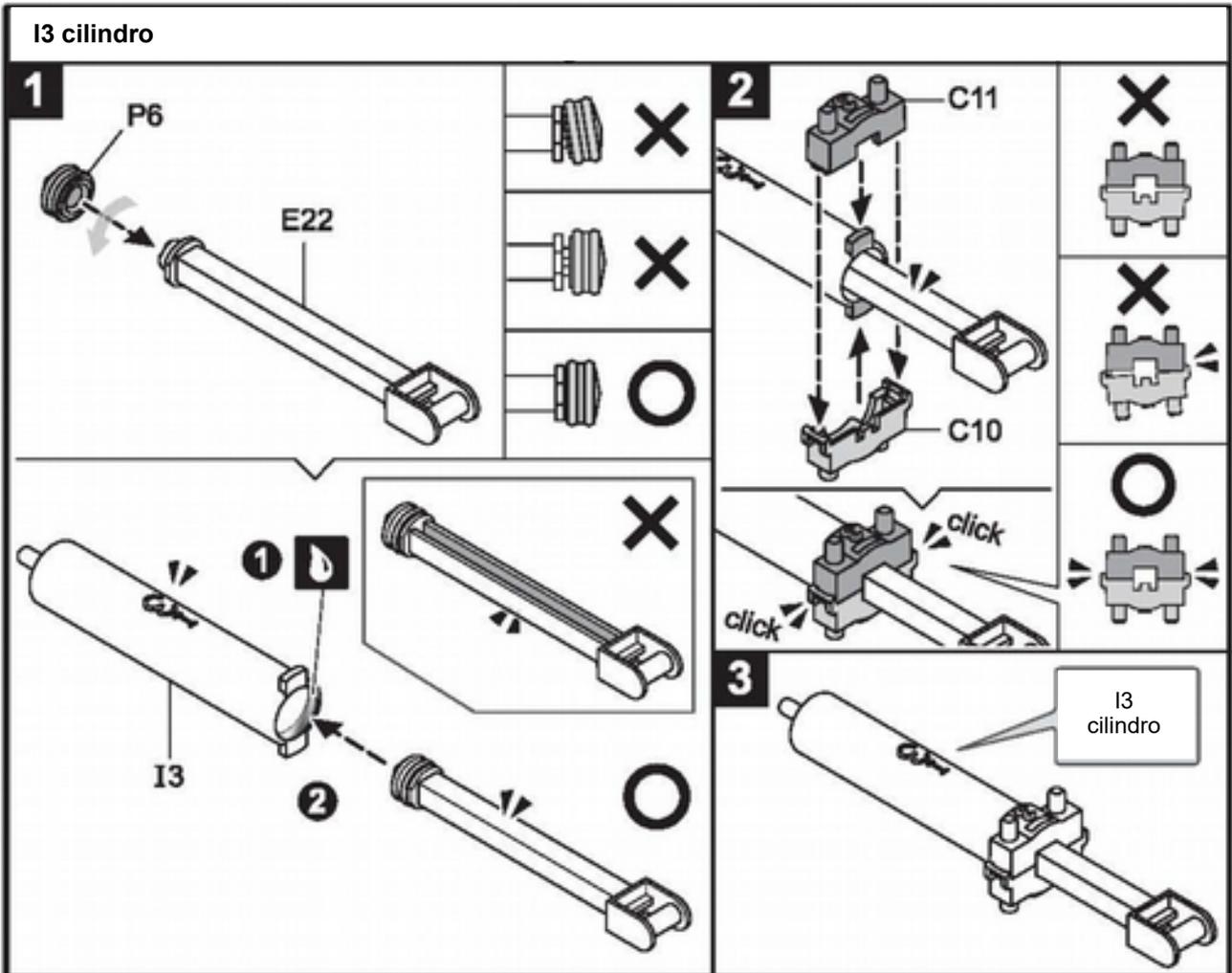


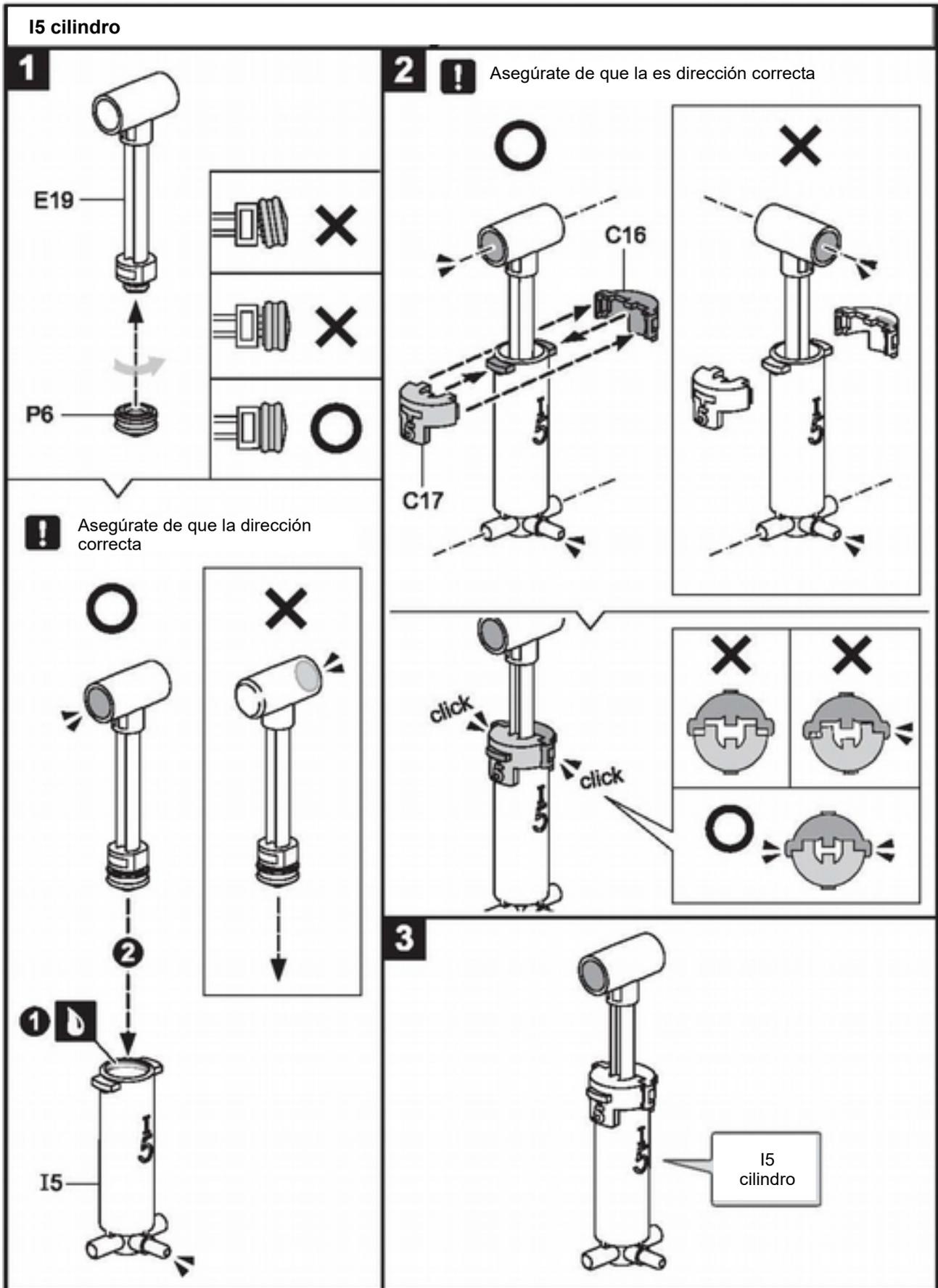
! Importante



17







Cómo cortar el tubo

1 Medición y marcaje

P14
tubo blando

2 Cortar

3 Codificación

4 Utilizar el mismo tubo para cortar el tubo 1 y el tubo 0. Las imágenes de los tubos , no están a escala .

Tube 0		
Tube 1		
Tube 2		
Tube 3		
Tube 4		
Tube 5		

Cómo llenar el cilindro con agua

1

Verter una taza de agua

2

! Presione hacia abajo el pistón hasta el fondo

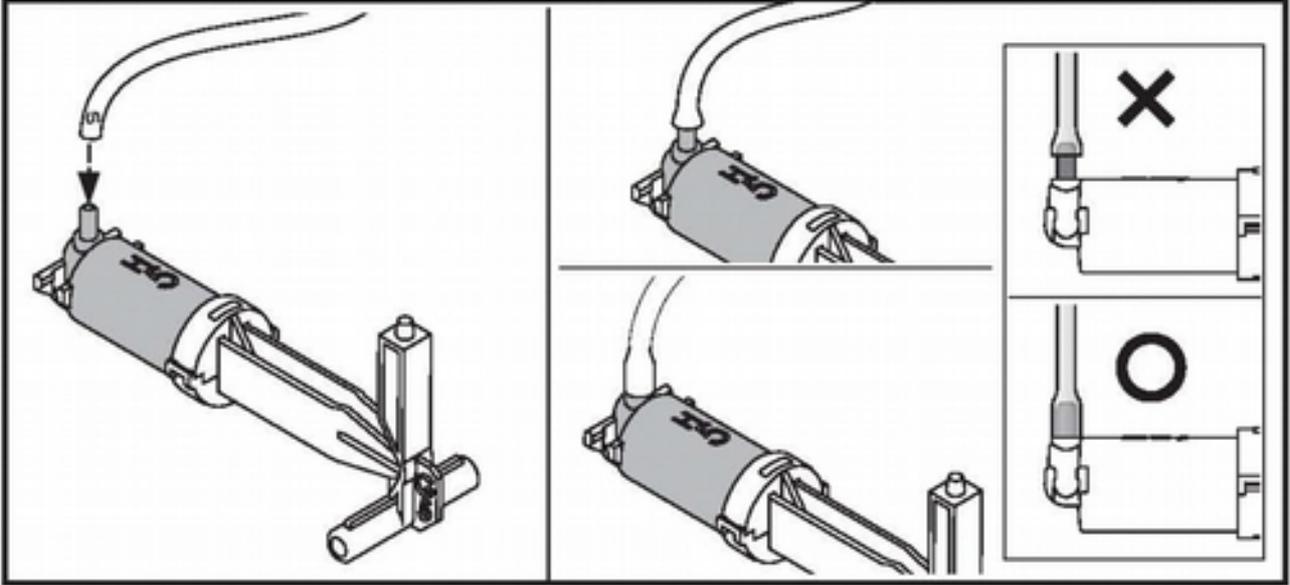
- 1** Tire hacia arriba del pistón que esta en la parte superior (Ver dibujo).
- 2** Presiona hacia abajo el pistón hasta el fondo
- 3** Volver a realizar los pasos 2 y 3 para llenar el cilindro con agua

4

NOTA

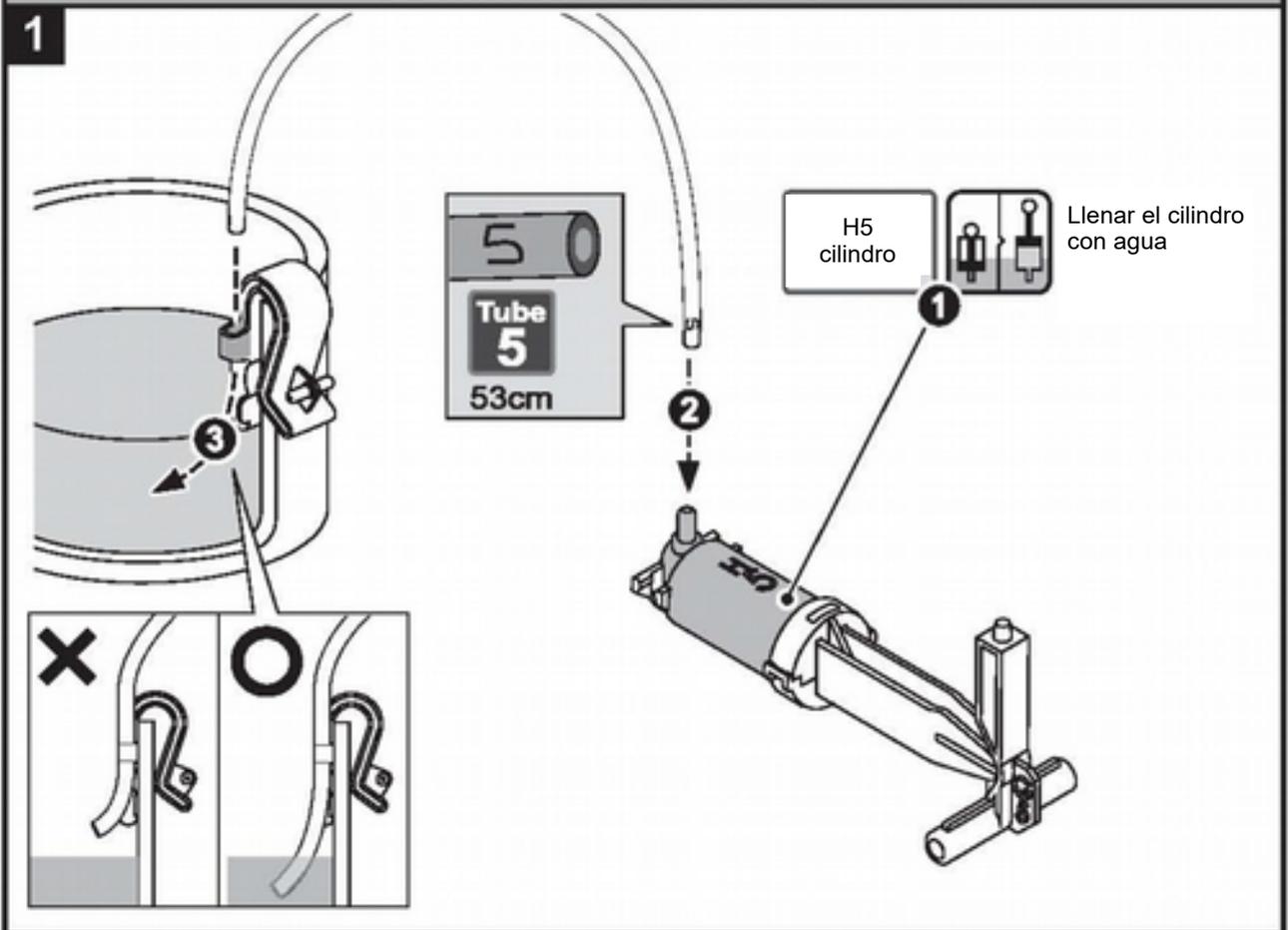
Llenar el cilindro con agua cuando aparece

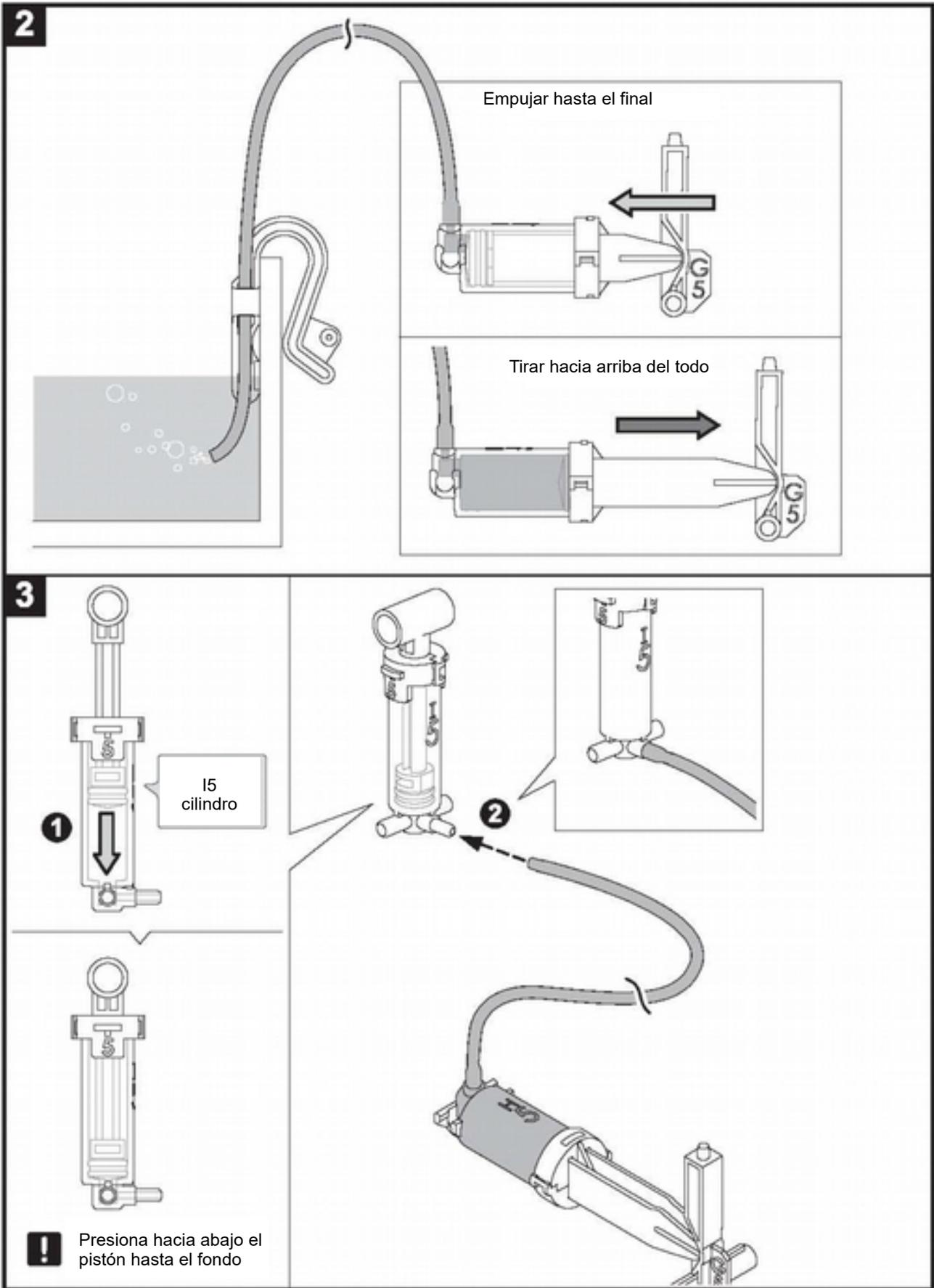
Como montar tubo



Montaje del módulo del cilindro hidráulico

Conectar H5 con I5





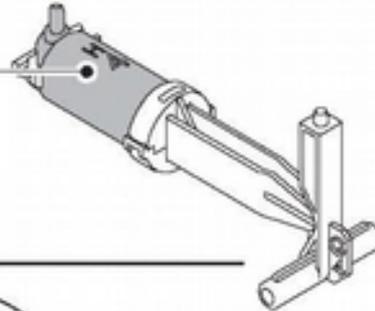
Conectar H4 con I4

1

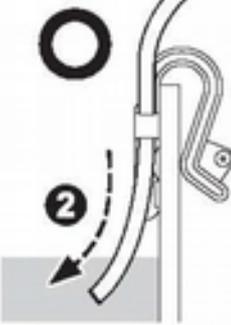
H4 cilindro



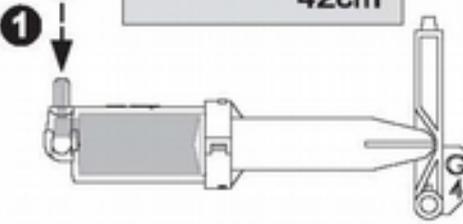
Llenar el cilindro con agua



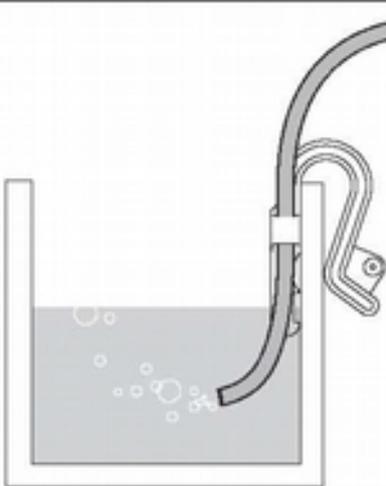
2



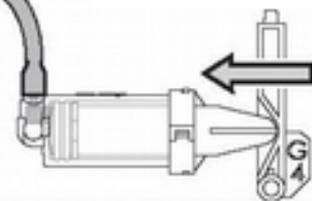
4 Tube 4 42cm



3



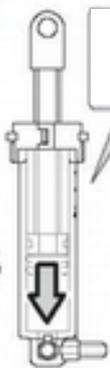
Empujar hasta el final



Tirar hacia arriba del todo



4

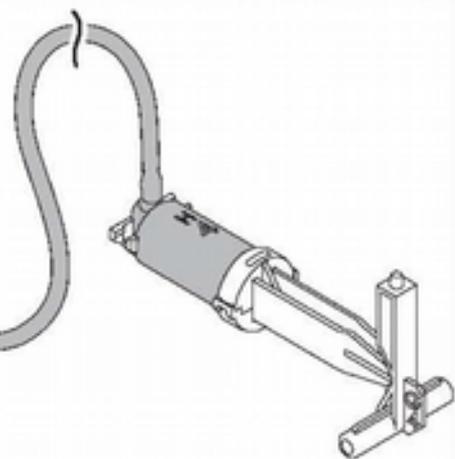
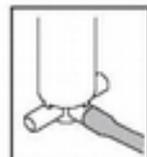


I4 cilindro

1



2



Presiona hacia abajo el pistón hasta el fondo

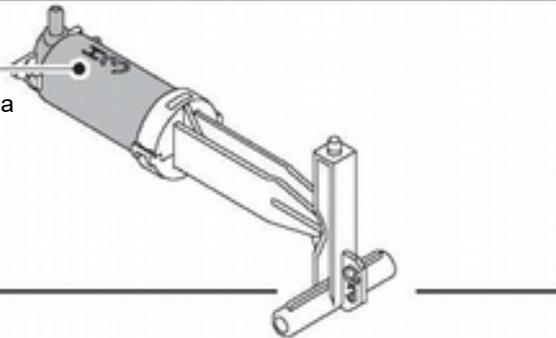
Conectar H3 con I3

1

H3 cilindro



Llenar el cilindro con agua

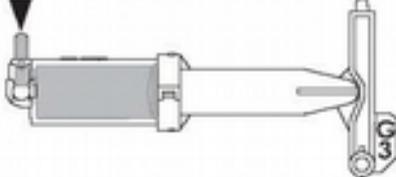


2

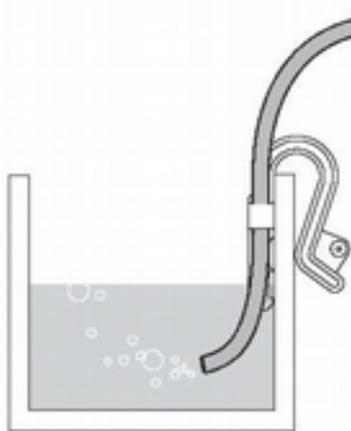


1

3 Tube 3 38cm



3



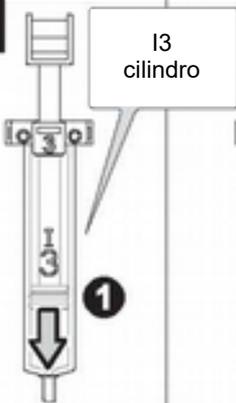
Empujar hasta el final



Tirar hacia arriba del todo

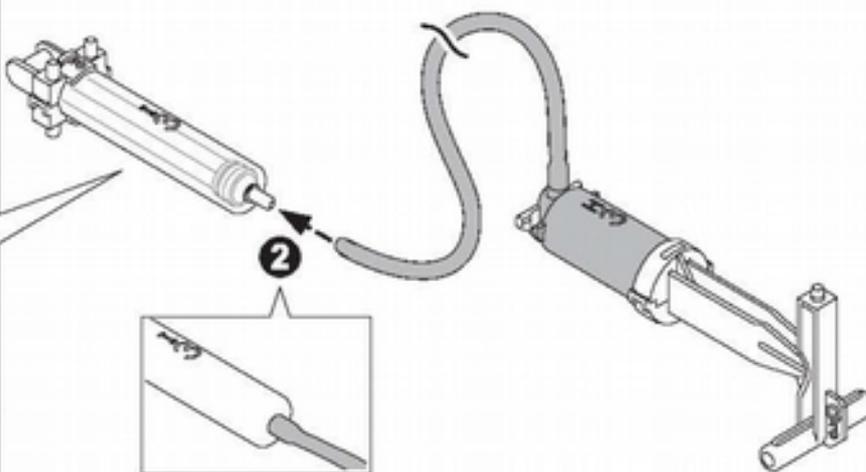


4



I3 cilindro

1

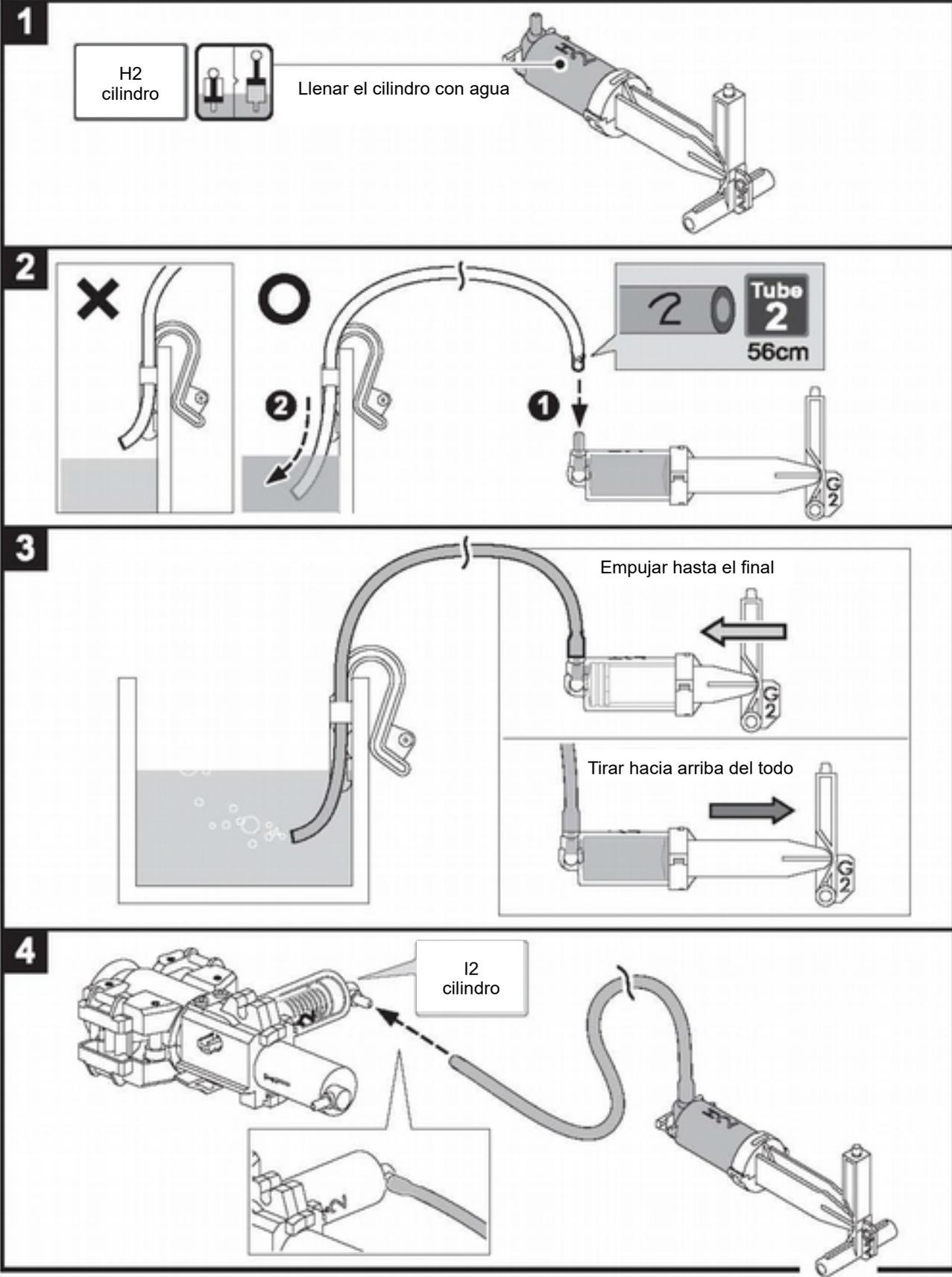


2



Presiona hacia abajo el pistón hasta el fondo

Conectar H2 con I2



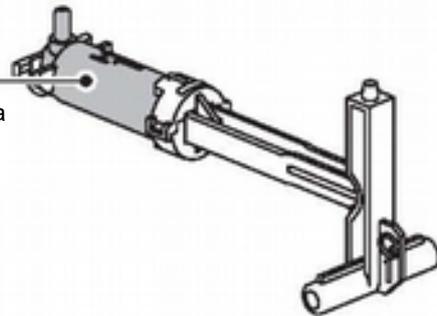
Conectar H1 – H0 con I1

1

H1
cilindro



Llenar el cilindro con agua

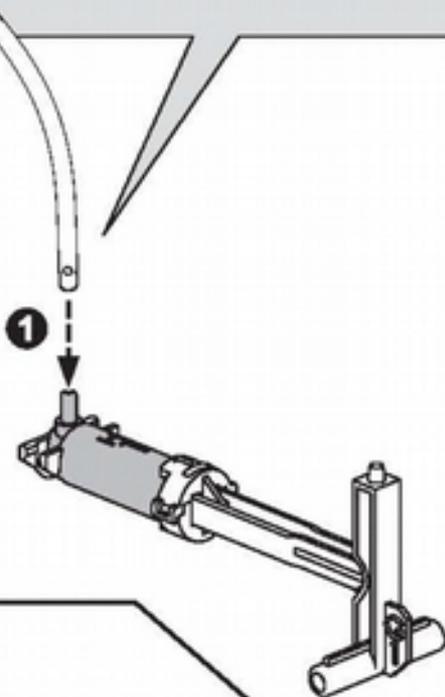
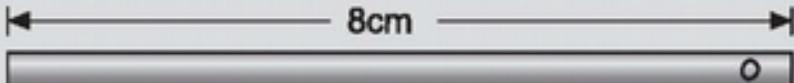


2

Tubo
0

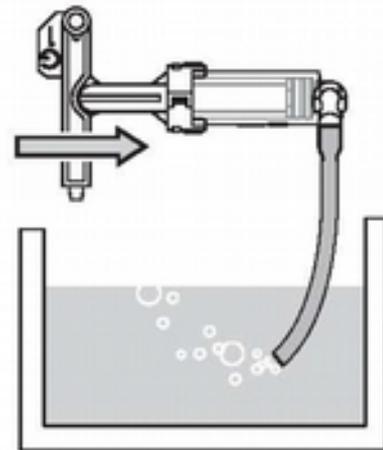
1:1

8cm

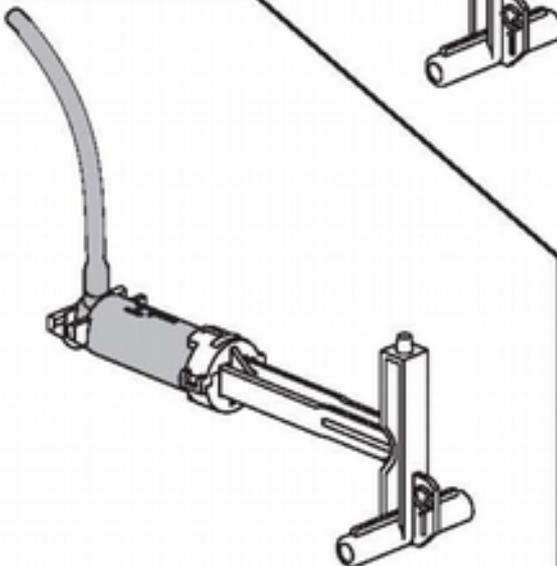


2

Empujar hasta el final

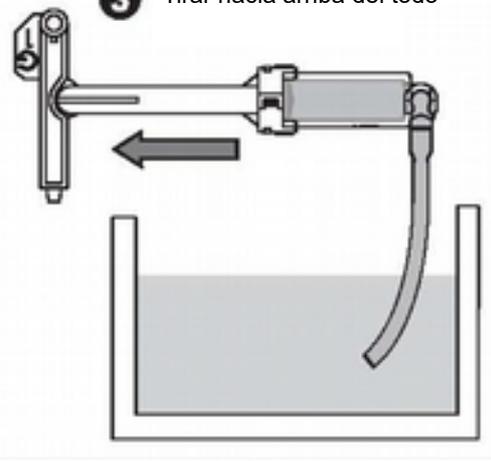


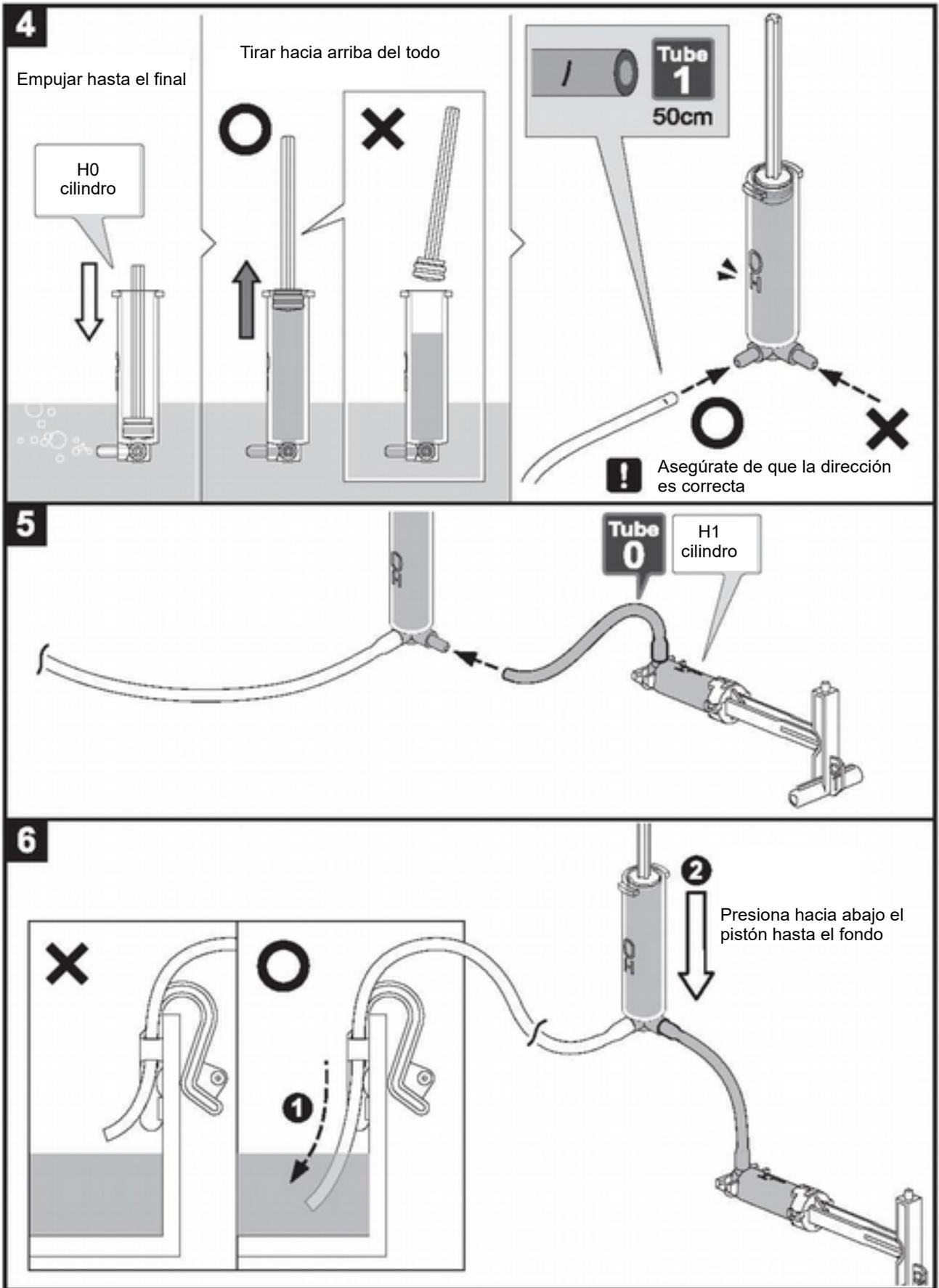
3

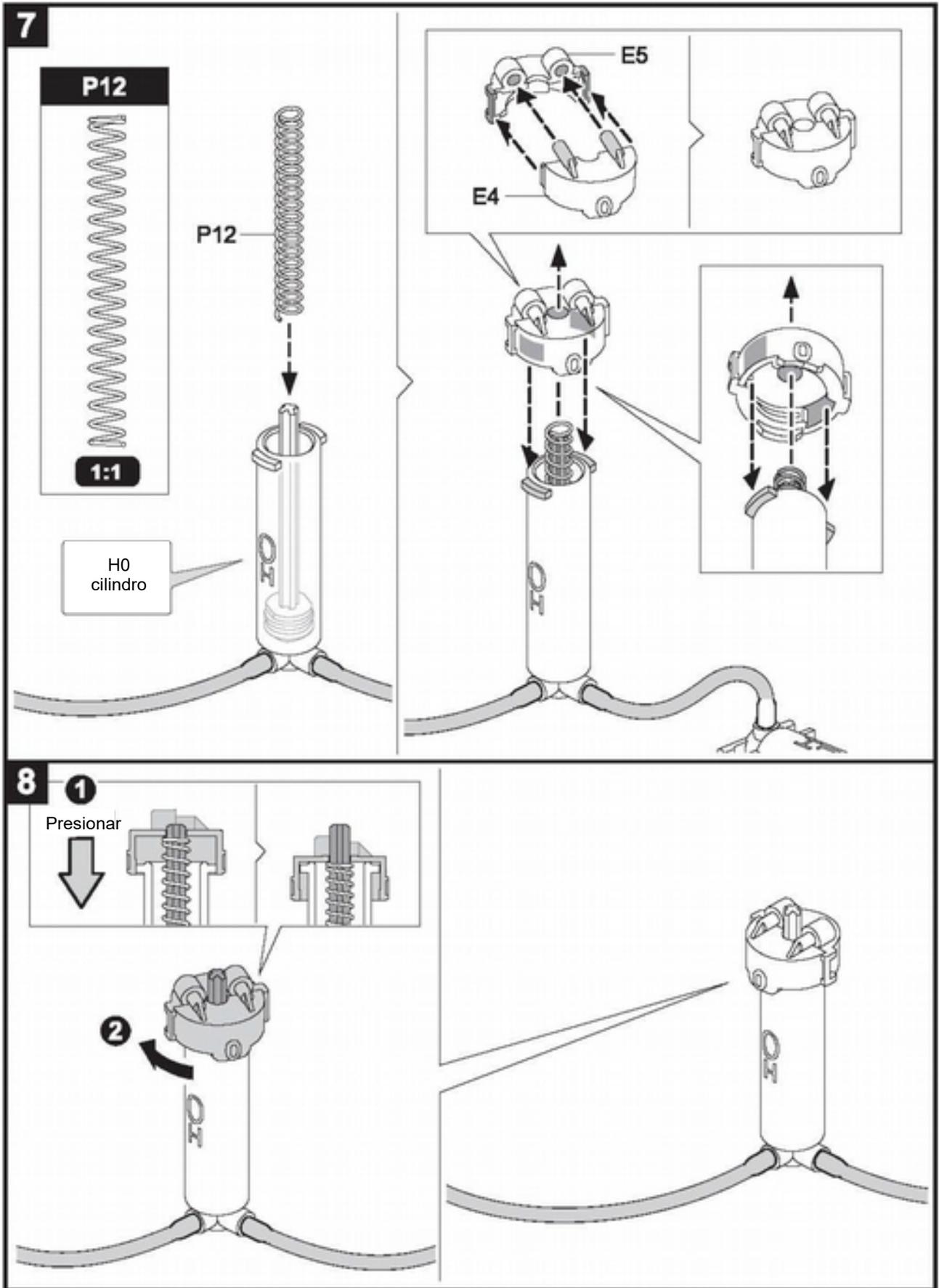


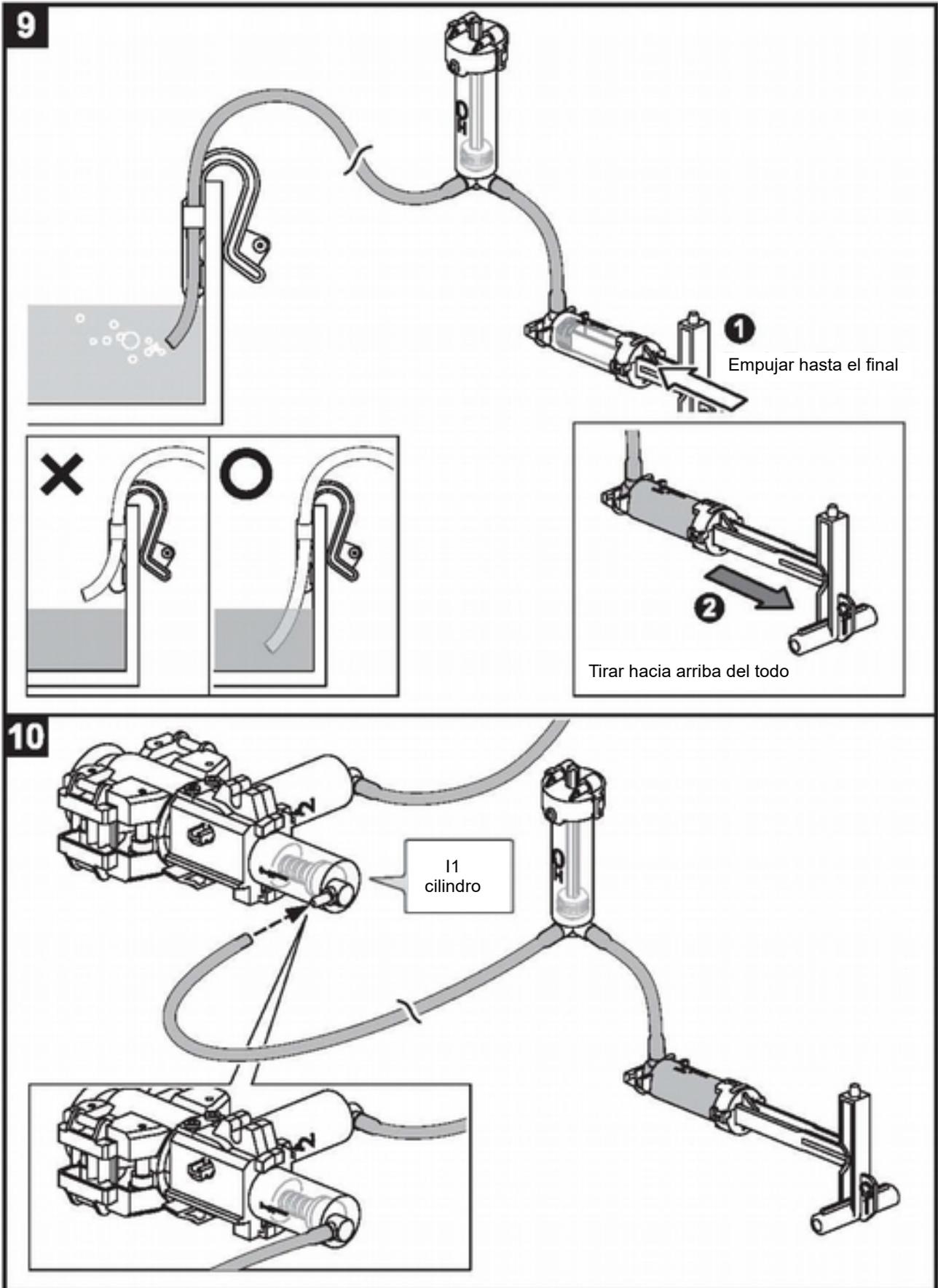
3

Tirar hacia arriba del todo

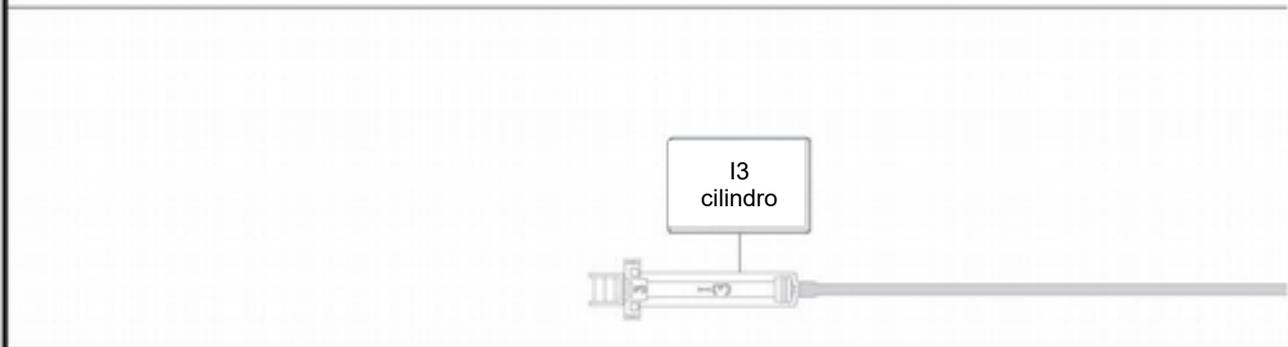
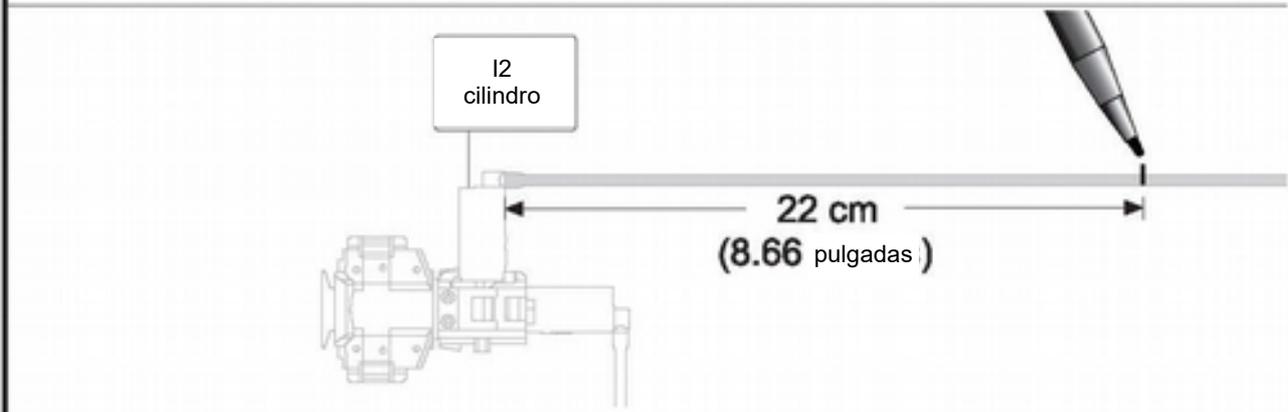
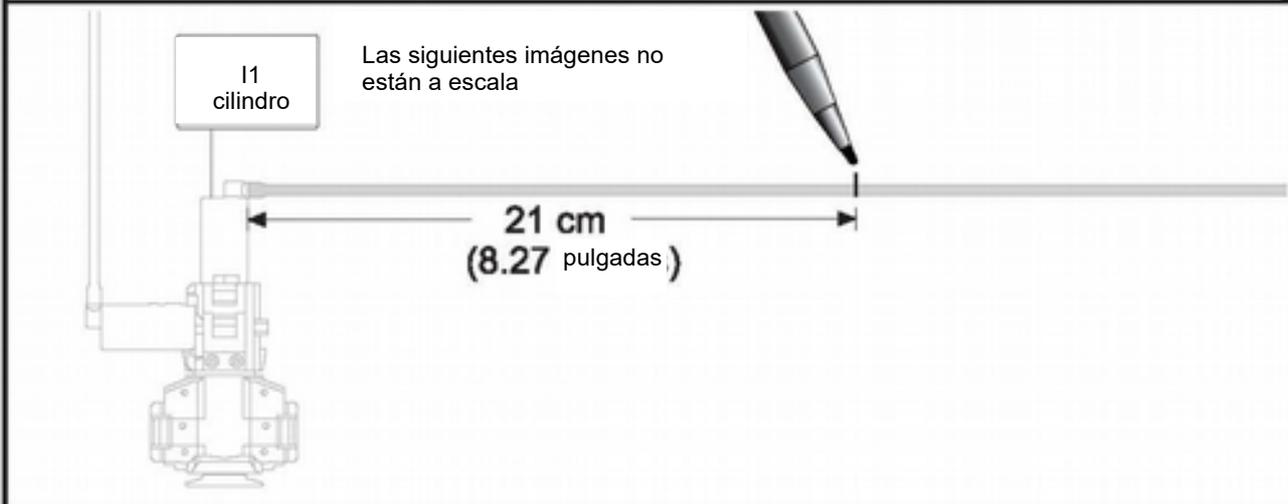
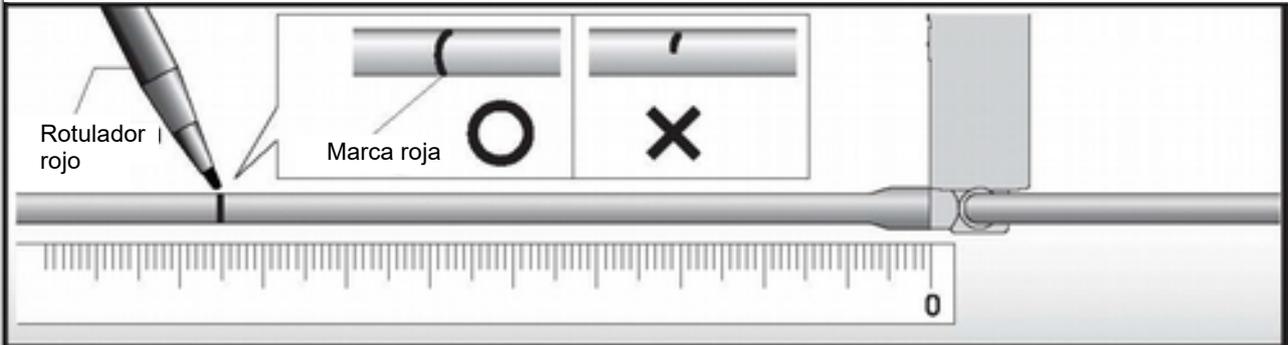


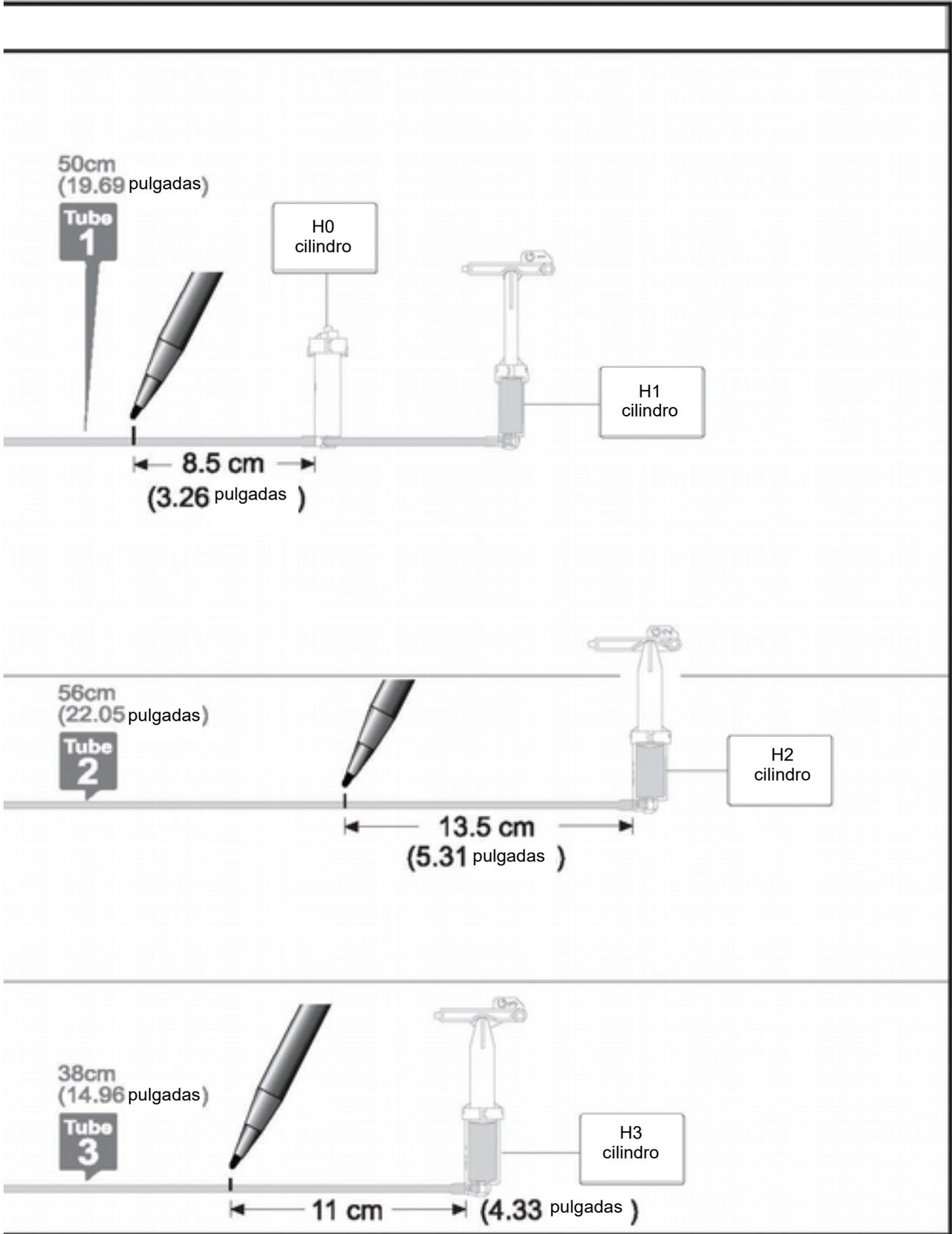


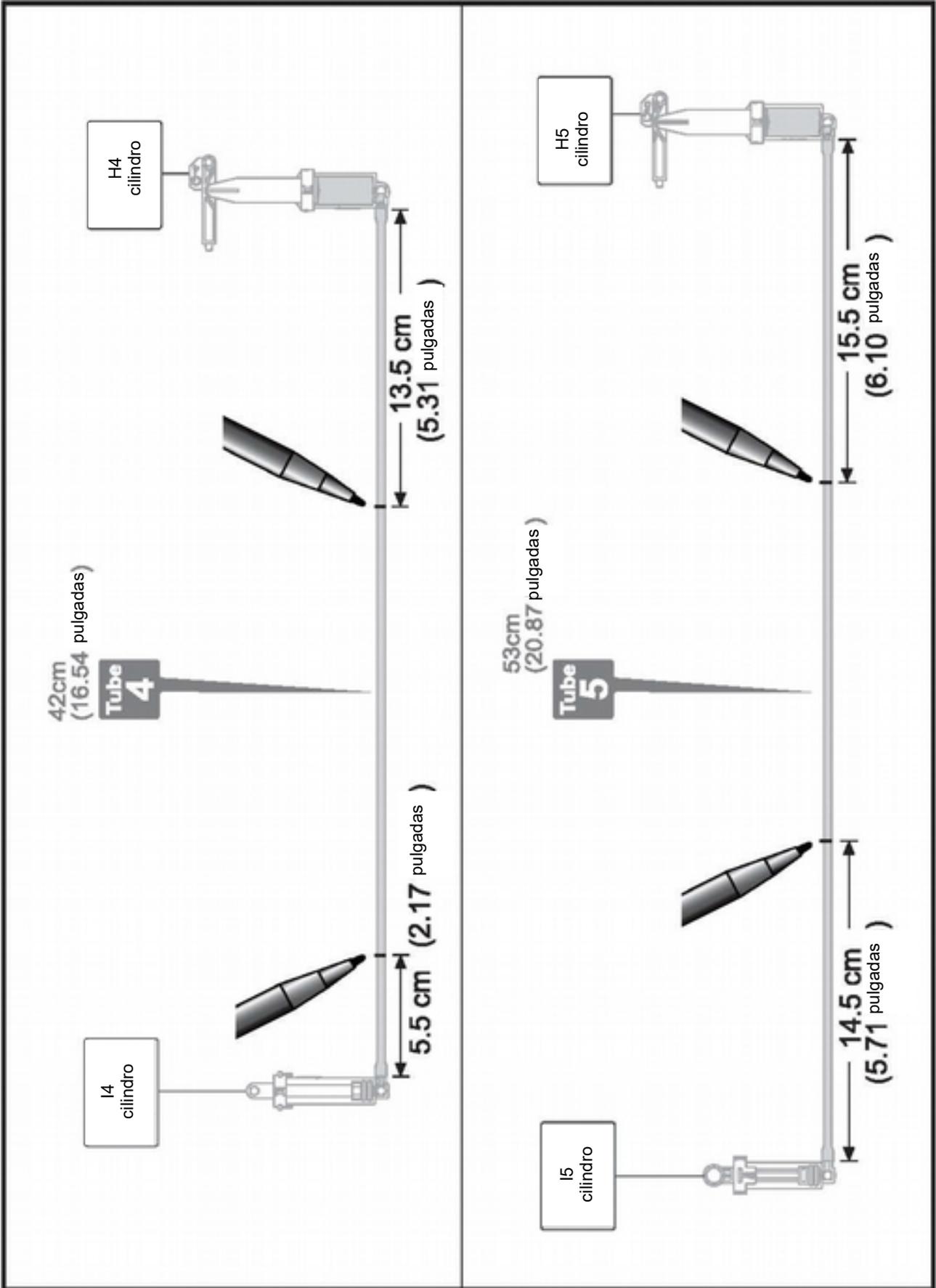




Medir y marcar





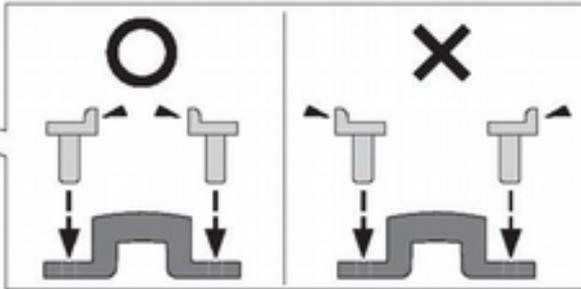
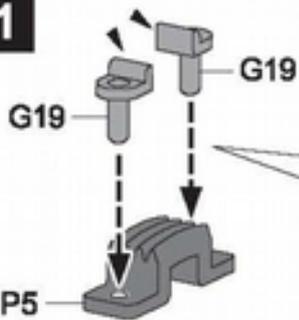


Palanca de control



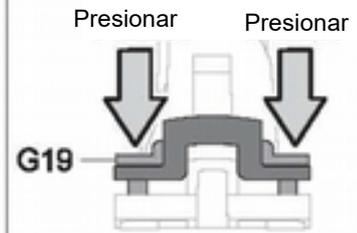
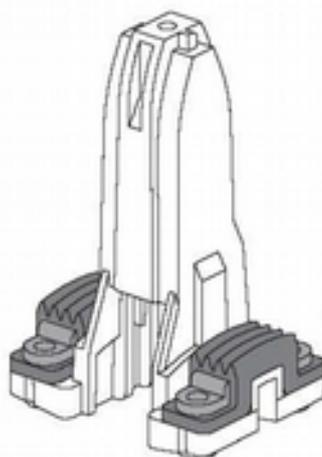
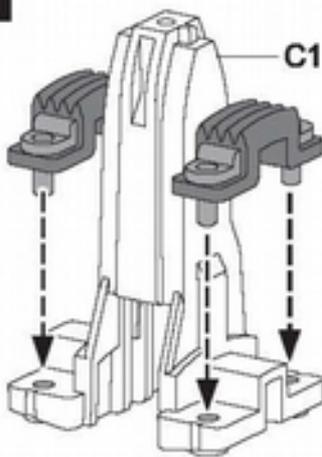
Asegúrate de que P5 (pastilla de freno) está sin engrasar para el montaje

1

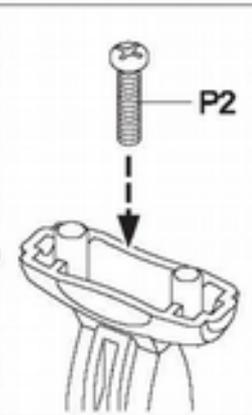
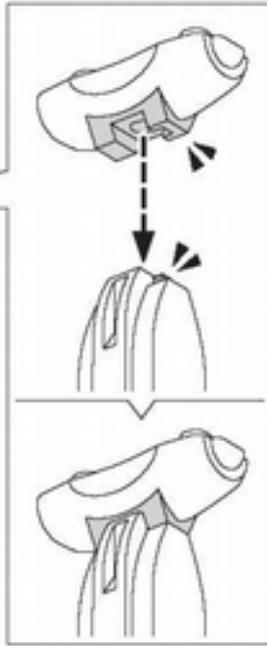
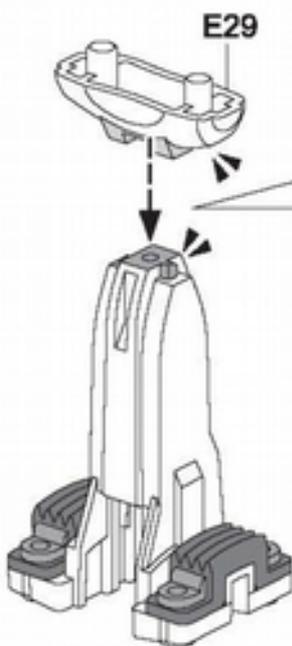


x10

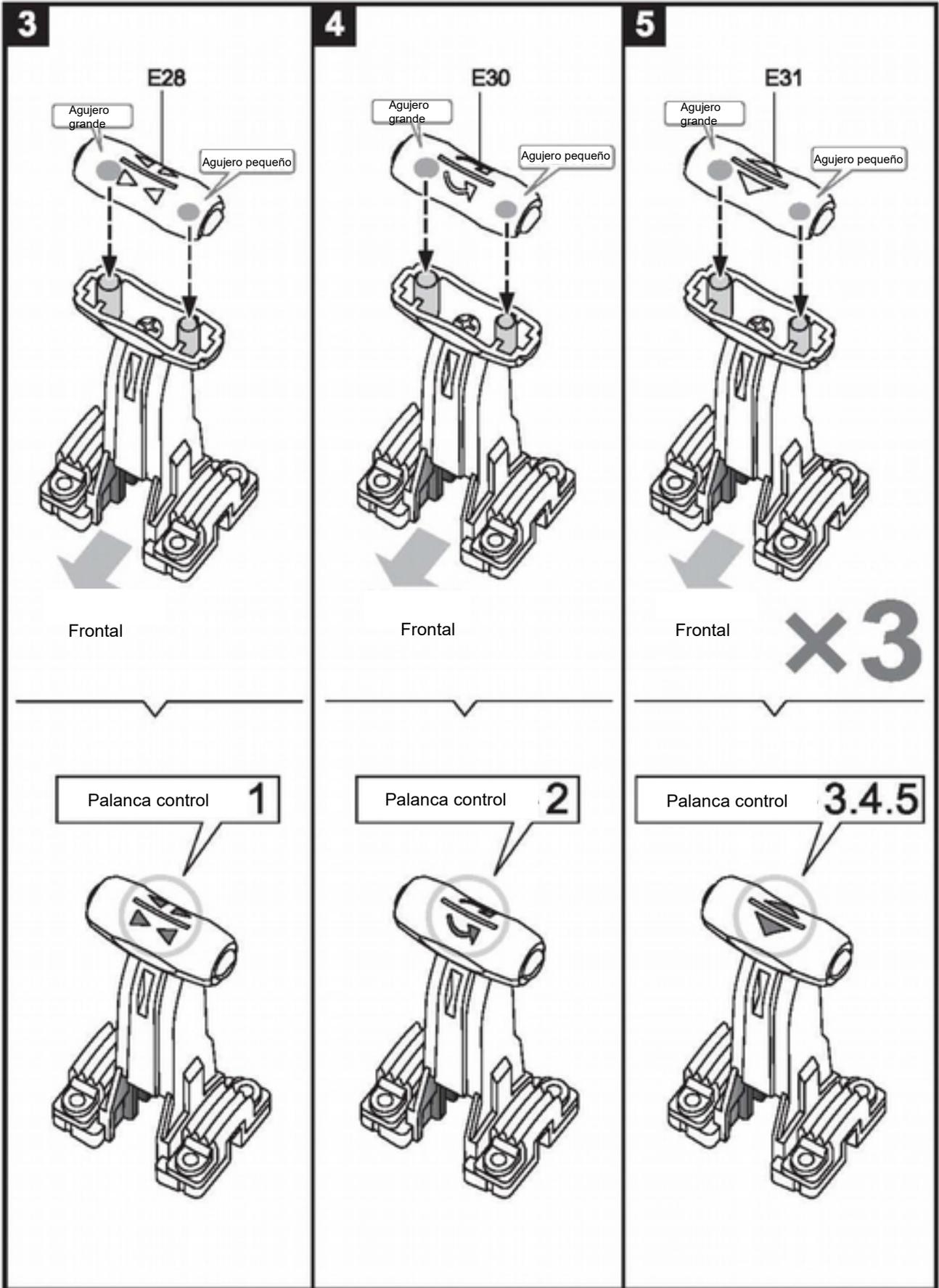
2



Presionar G19 a la parte inferior

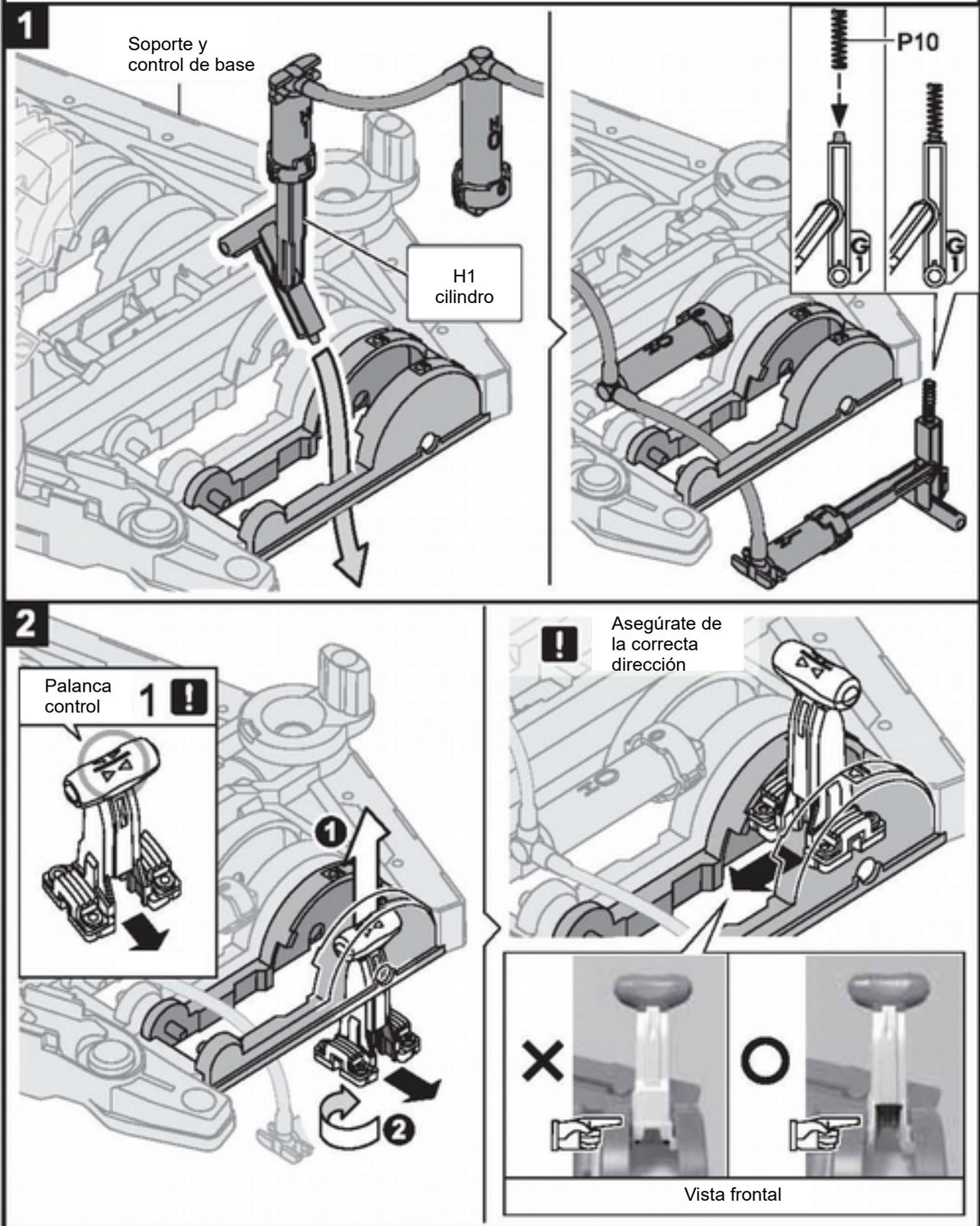


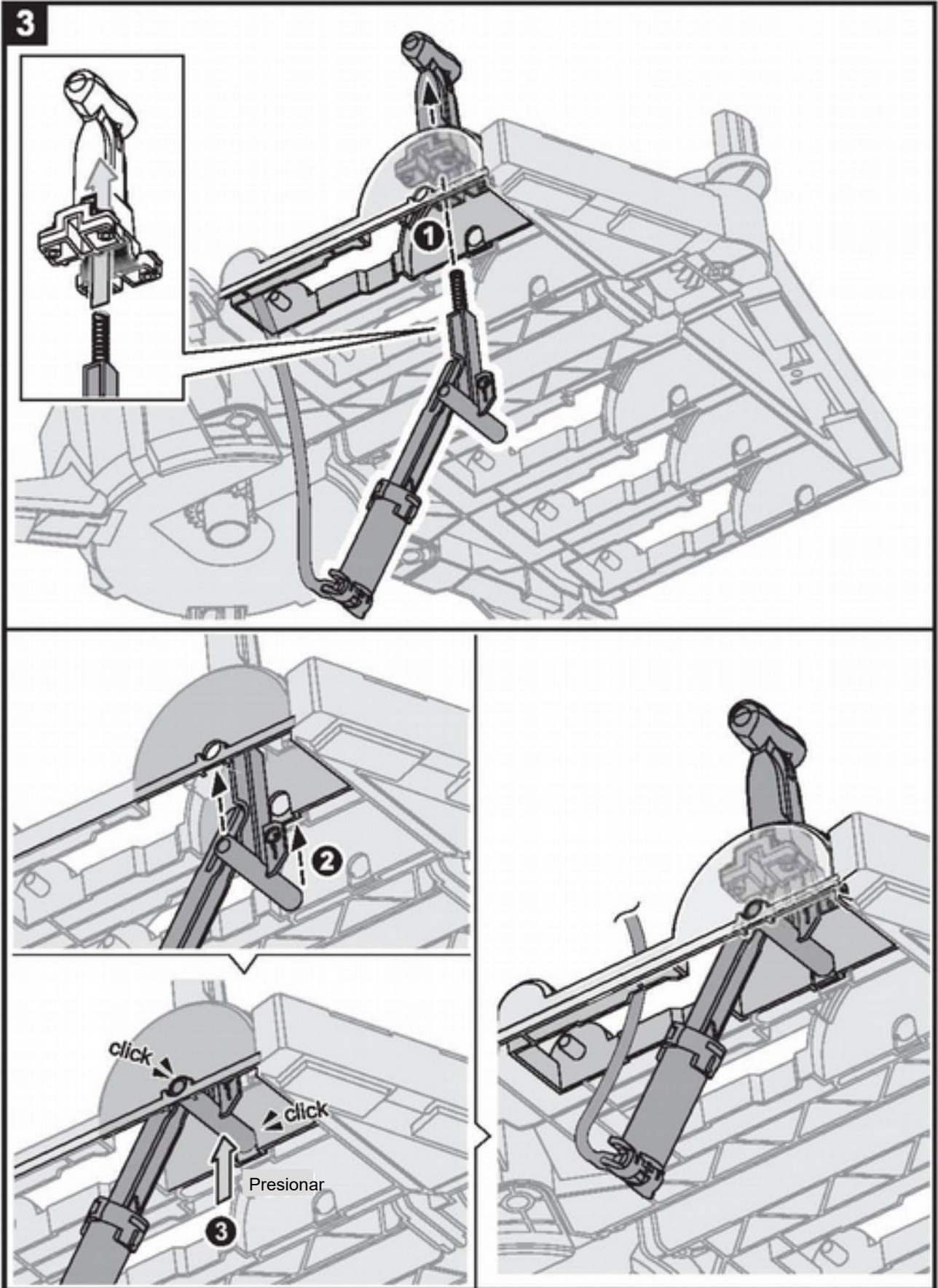
x5

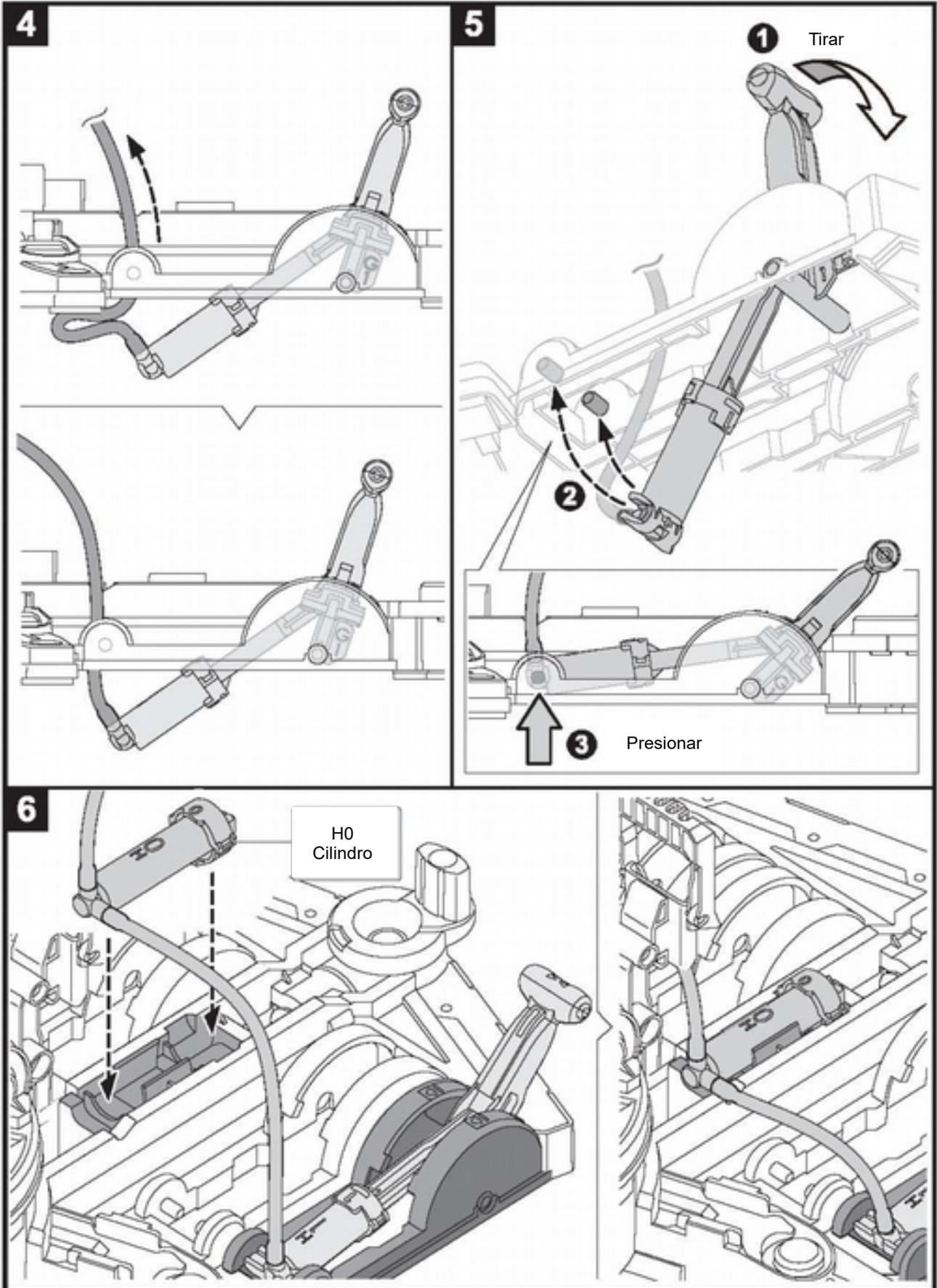


Montaje de la palanca de control

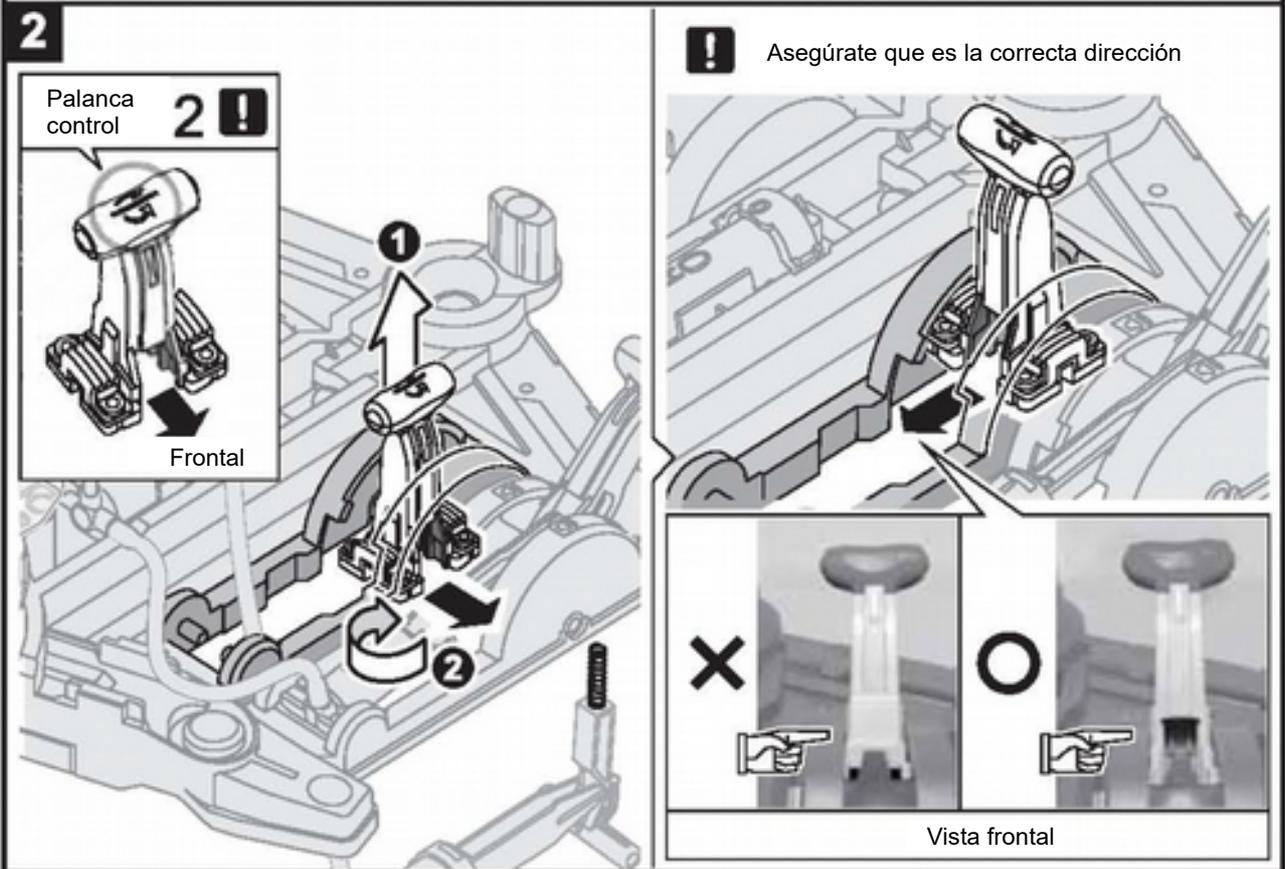
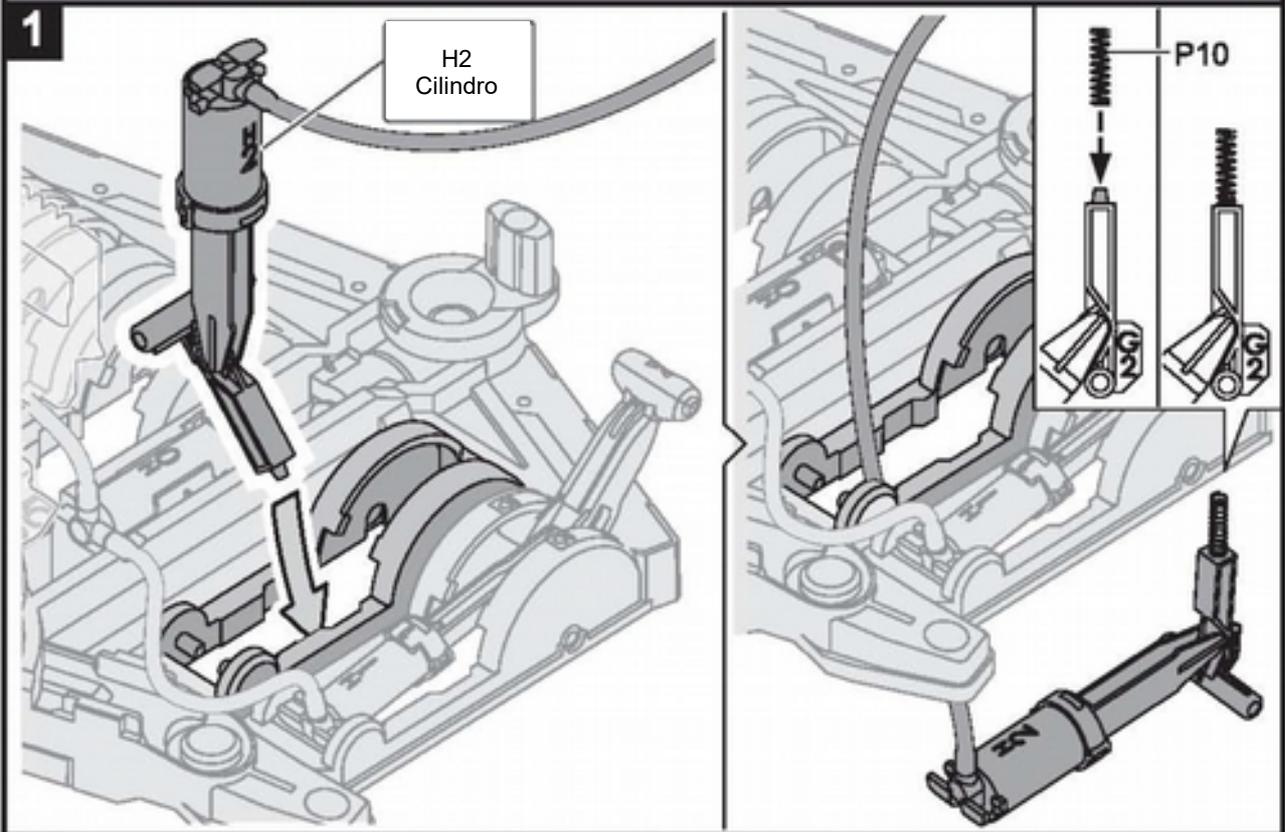
Unit 1 : H0 – H1 cilindro y palanca de control

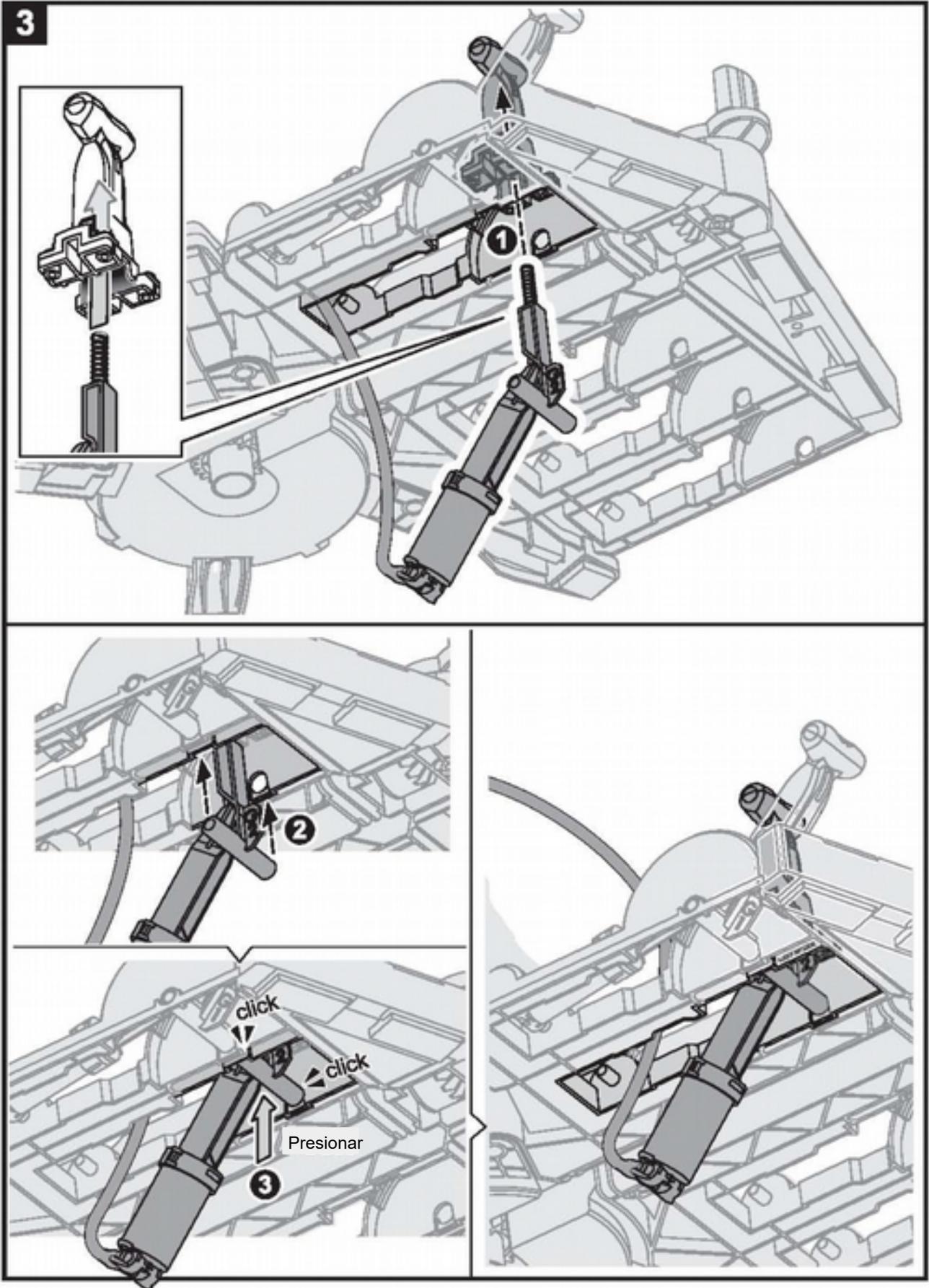


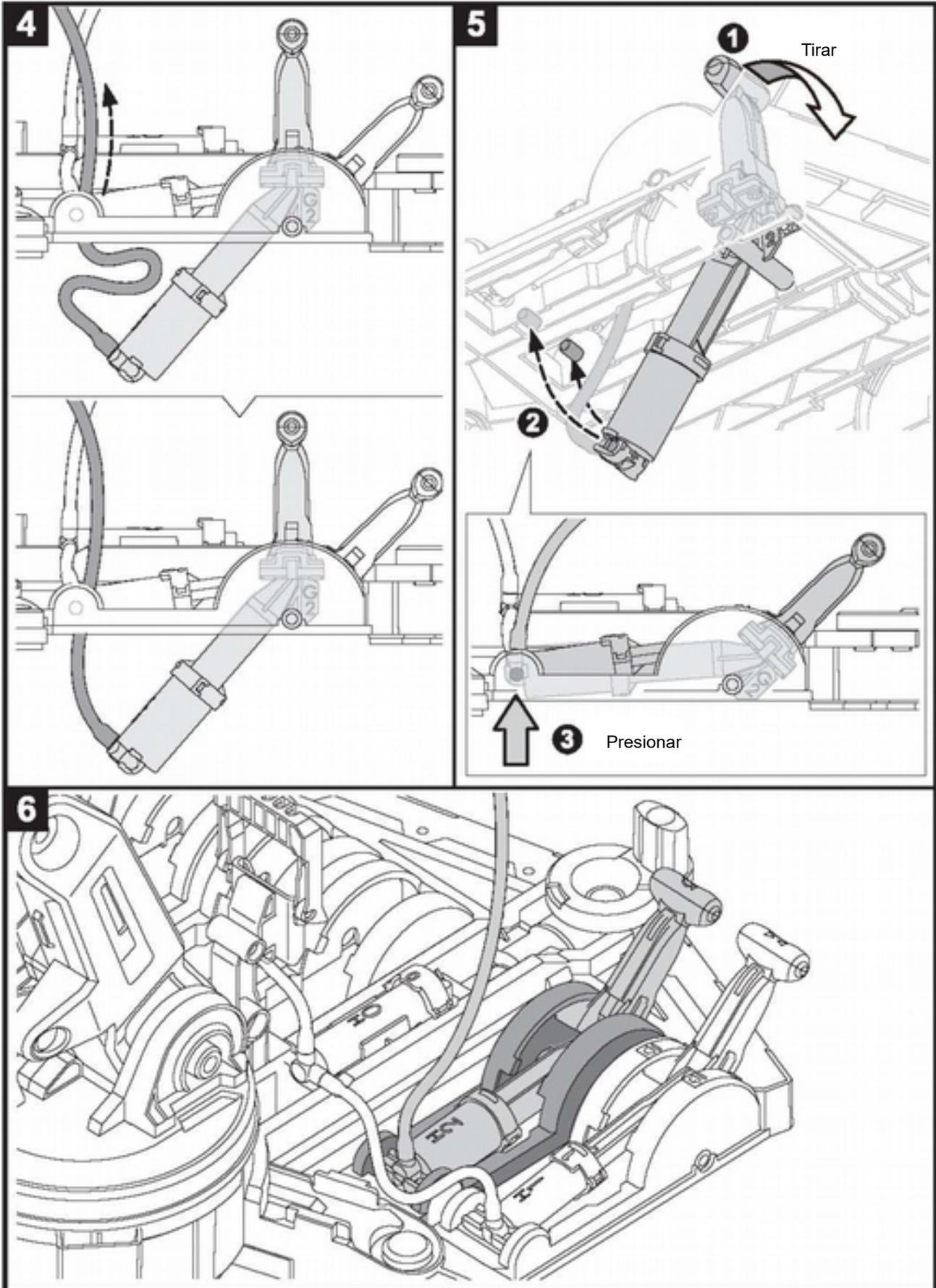




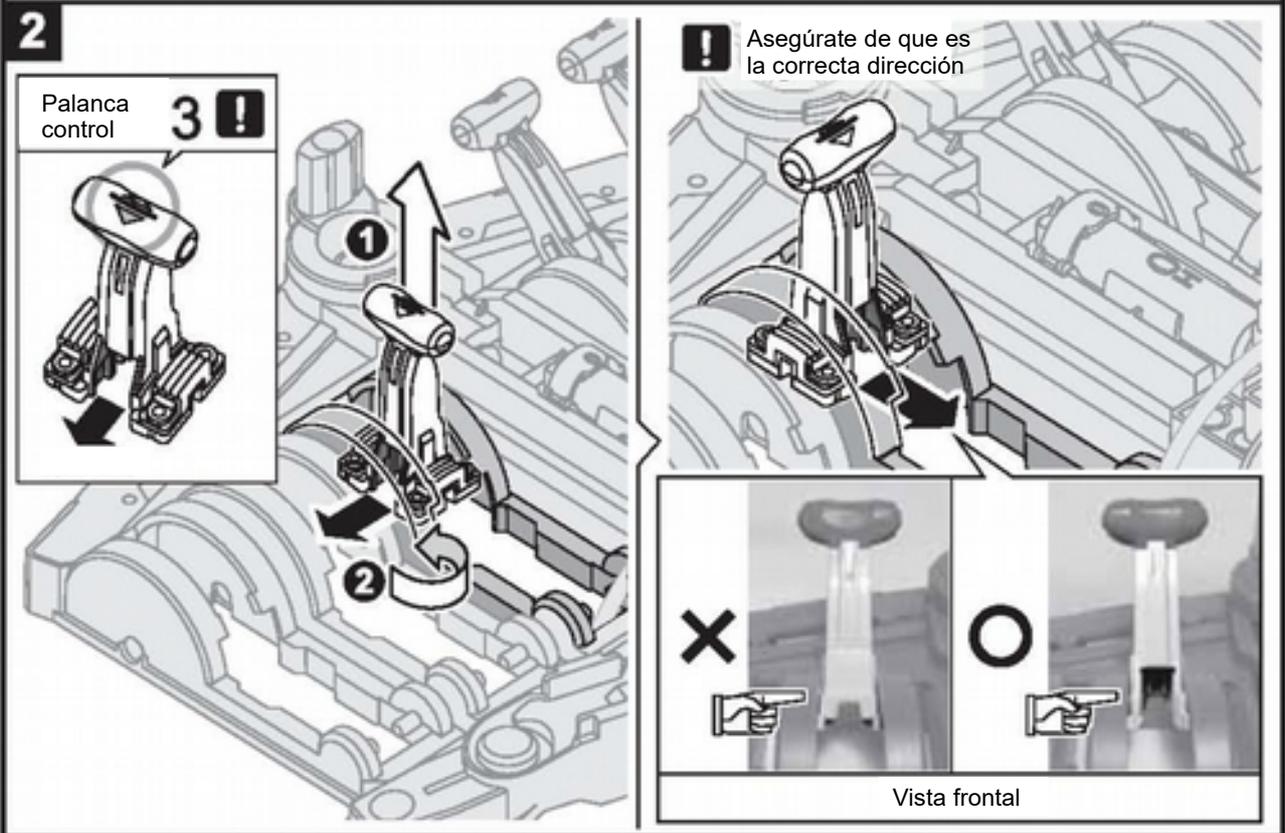
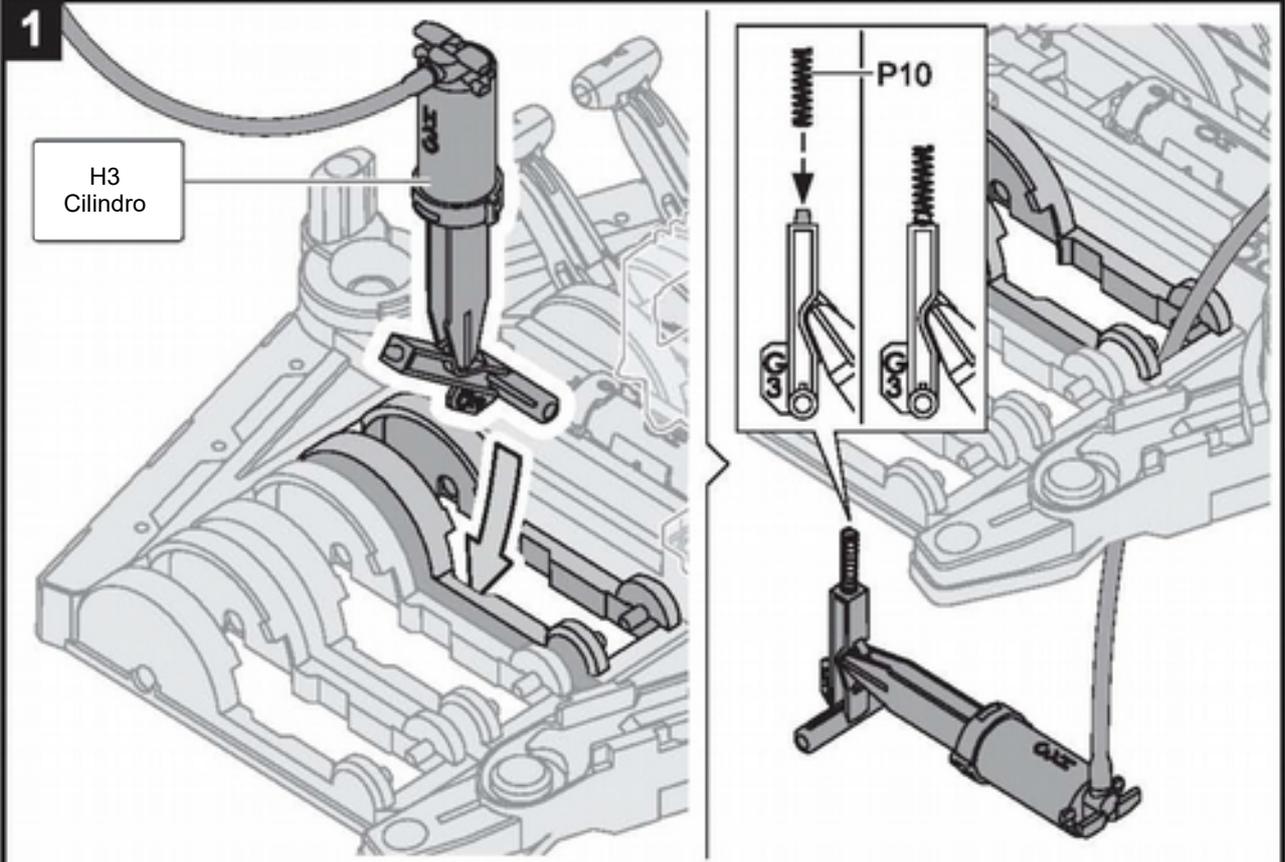
Unit 2 : H2 cilindro y palanca de control 2

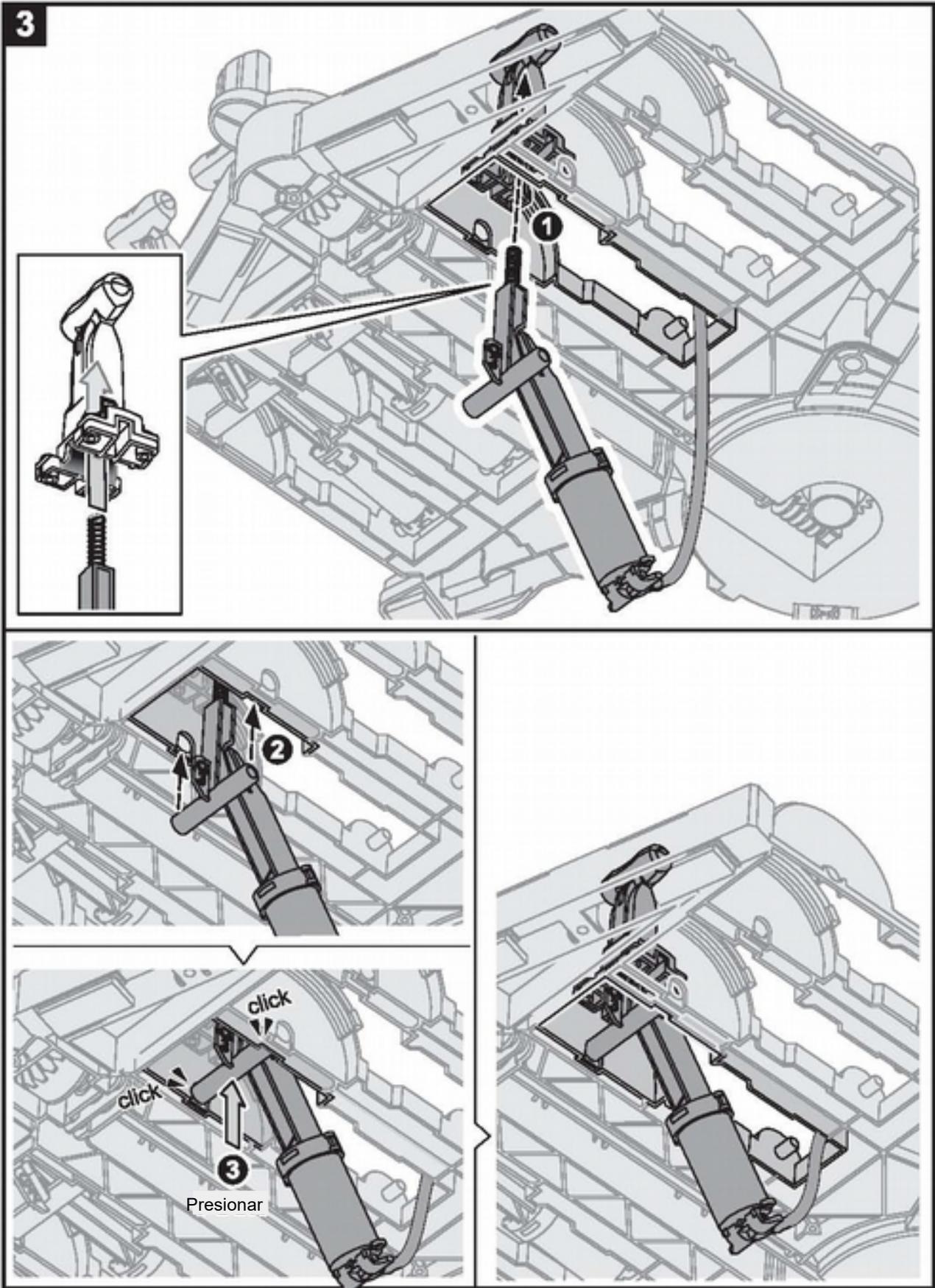


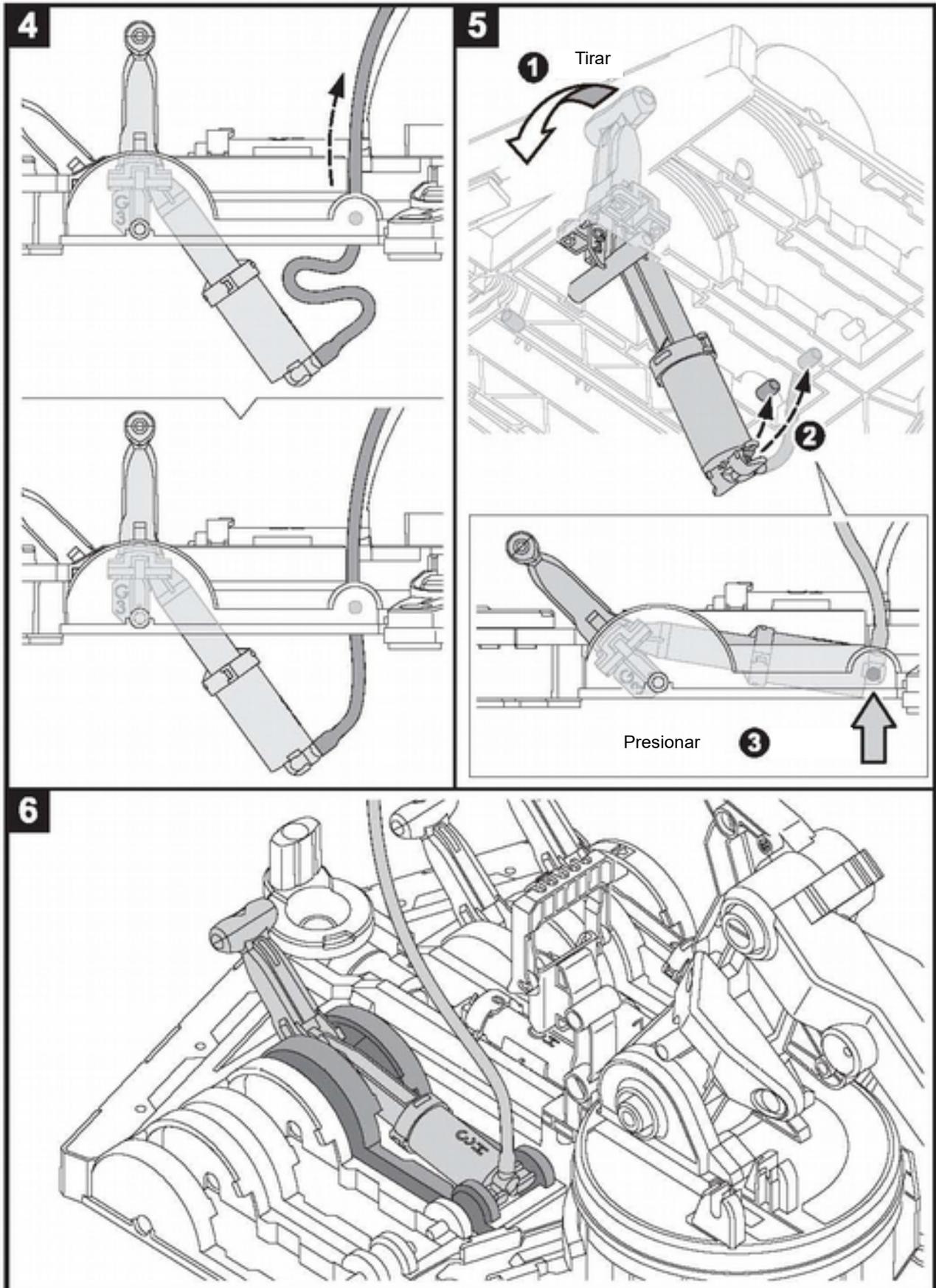




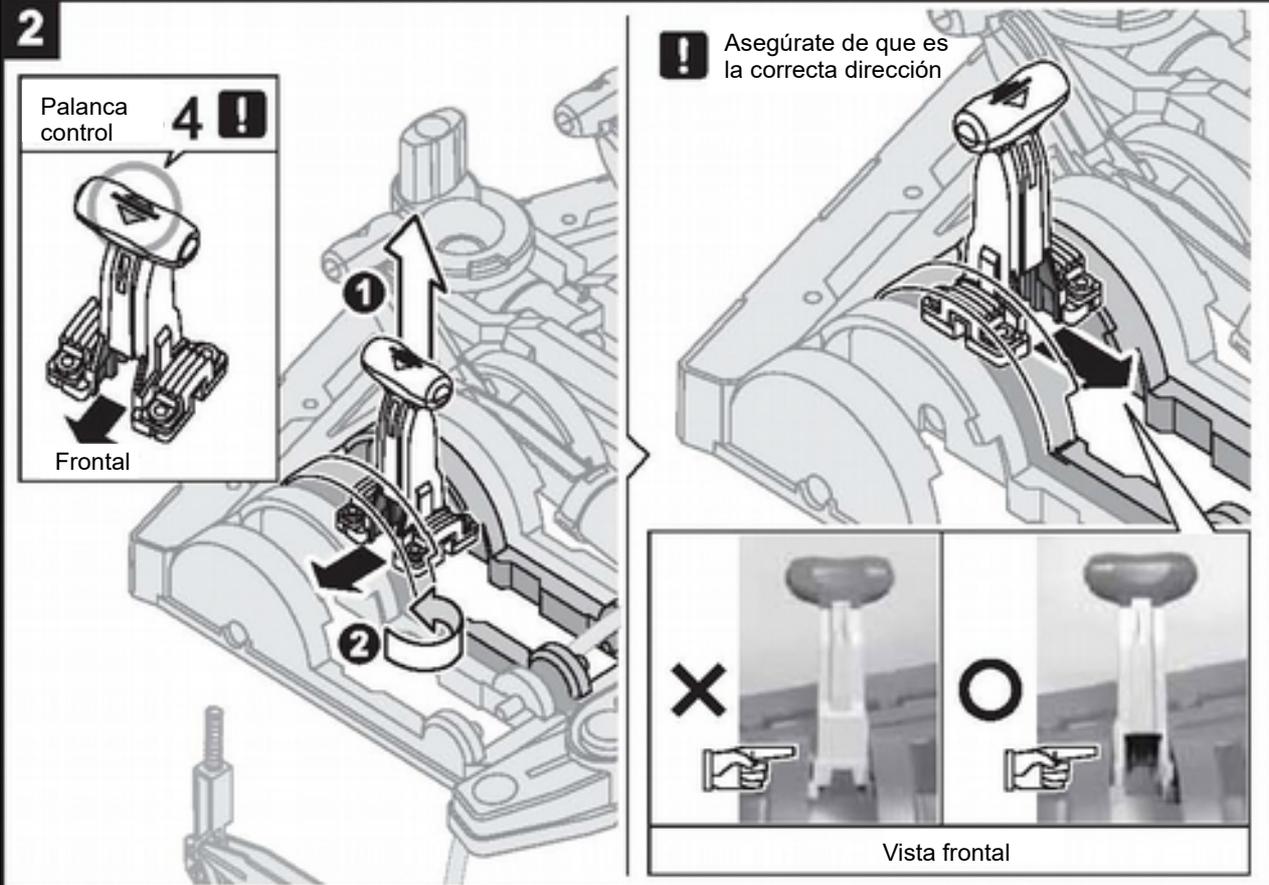
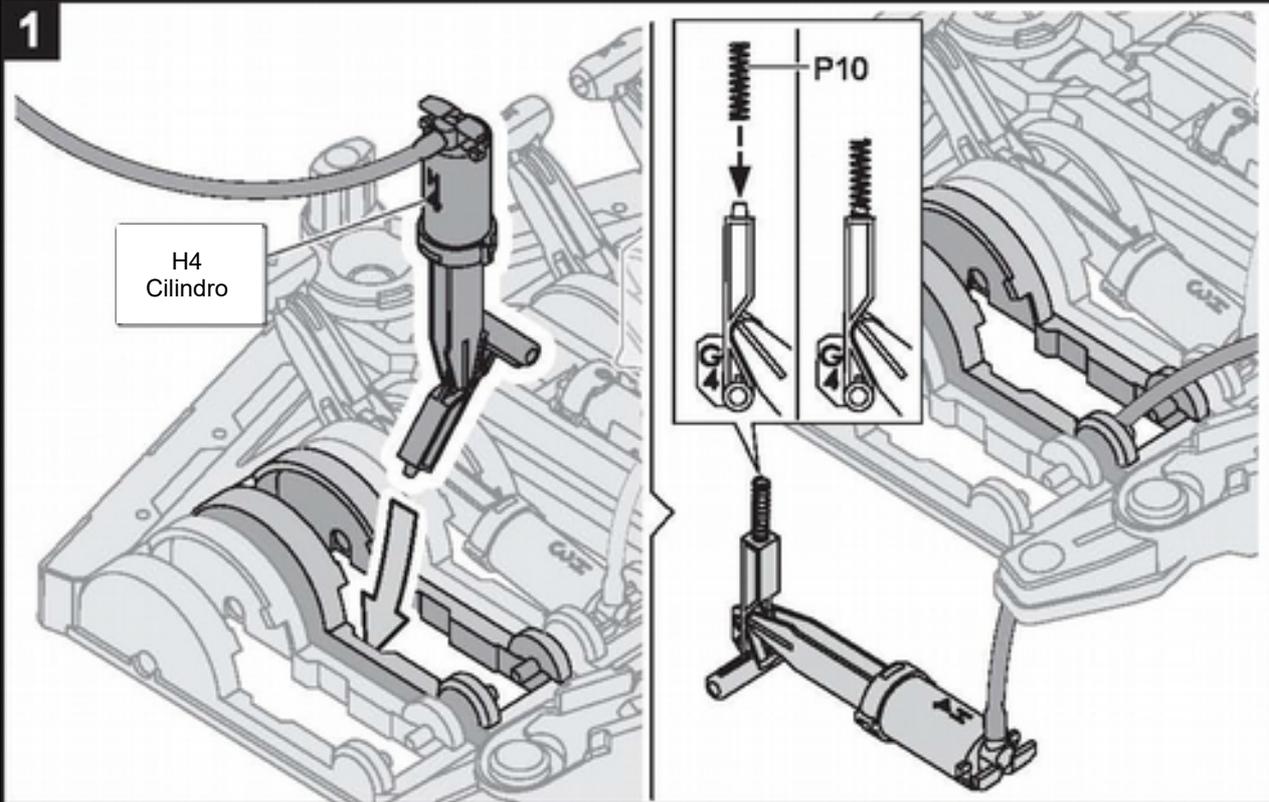
Unit 3 : H3 cilindro y palanca de control 3

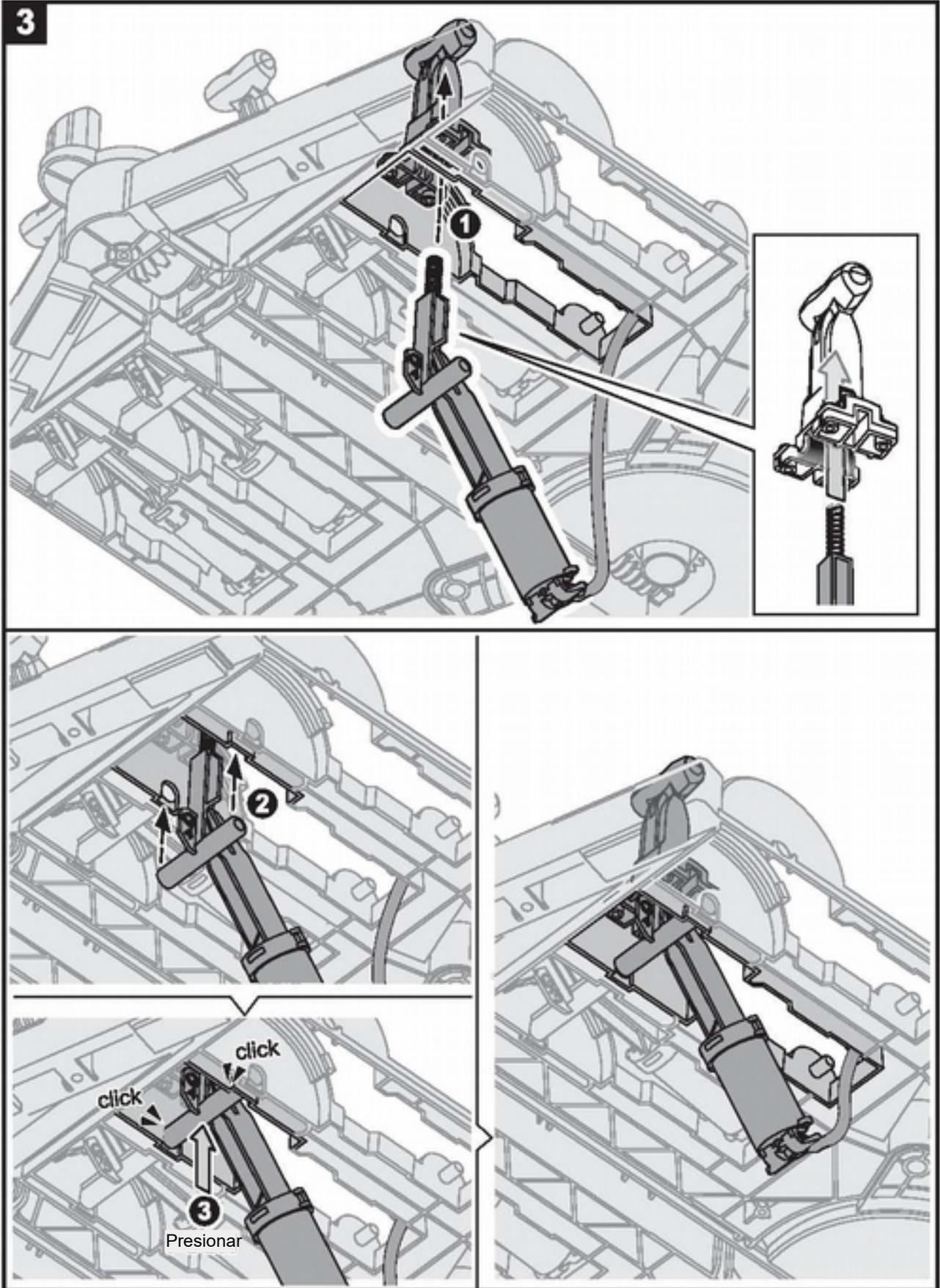


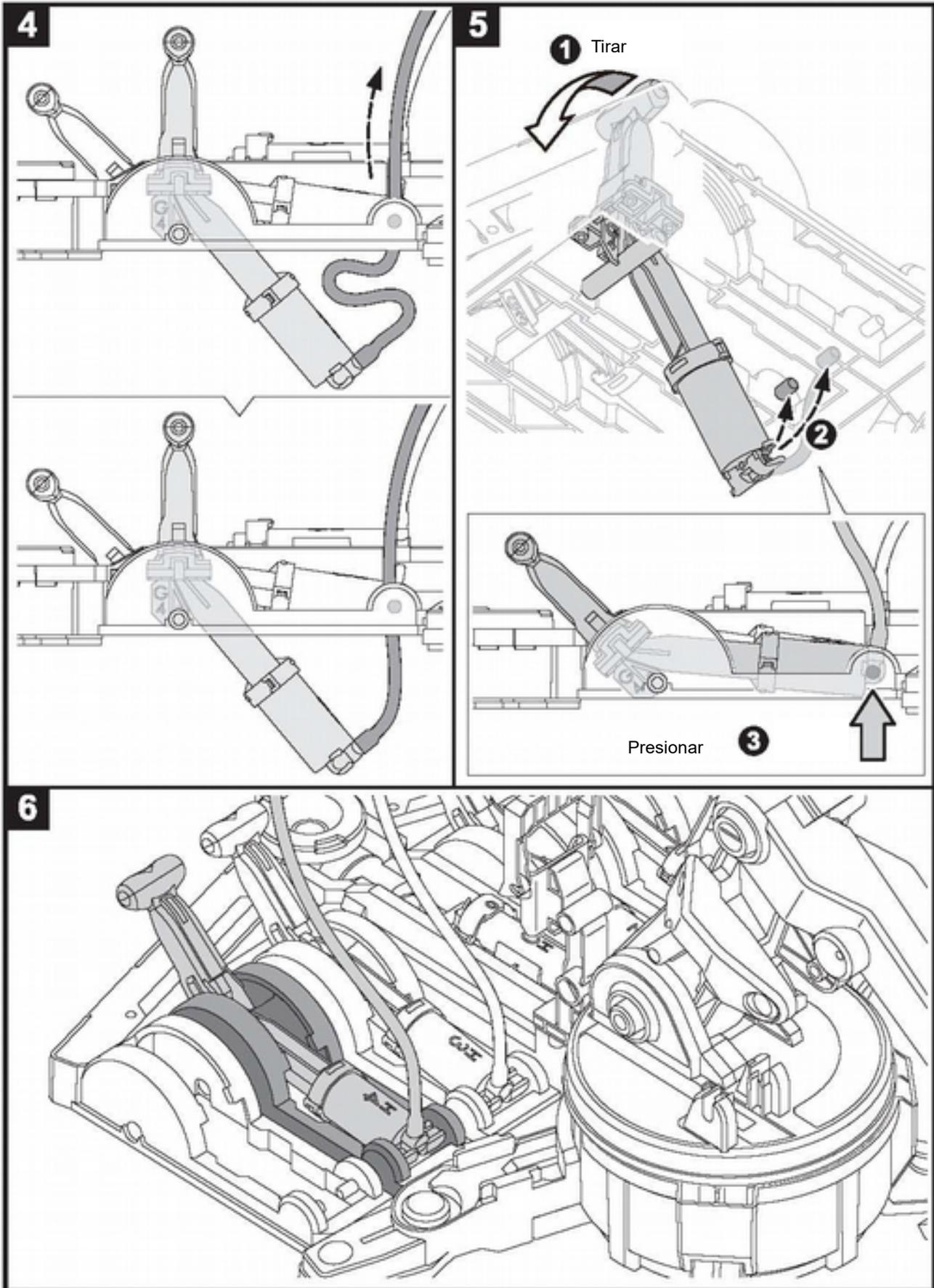




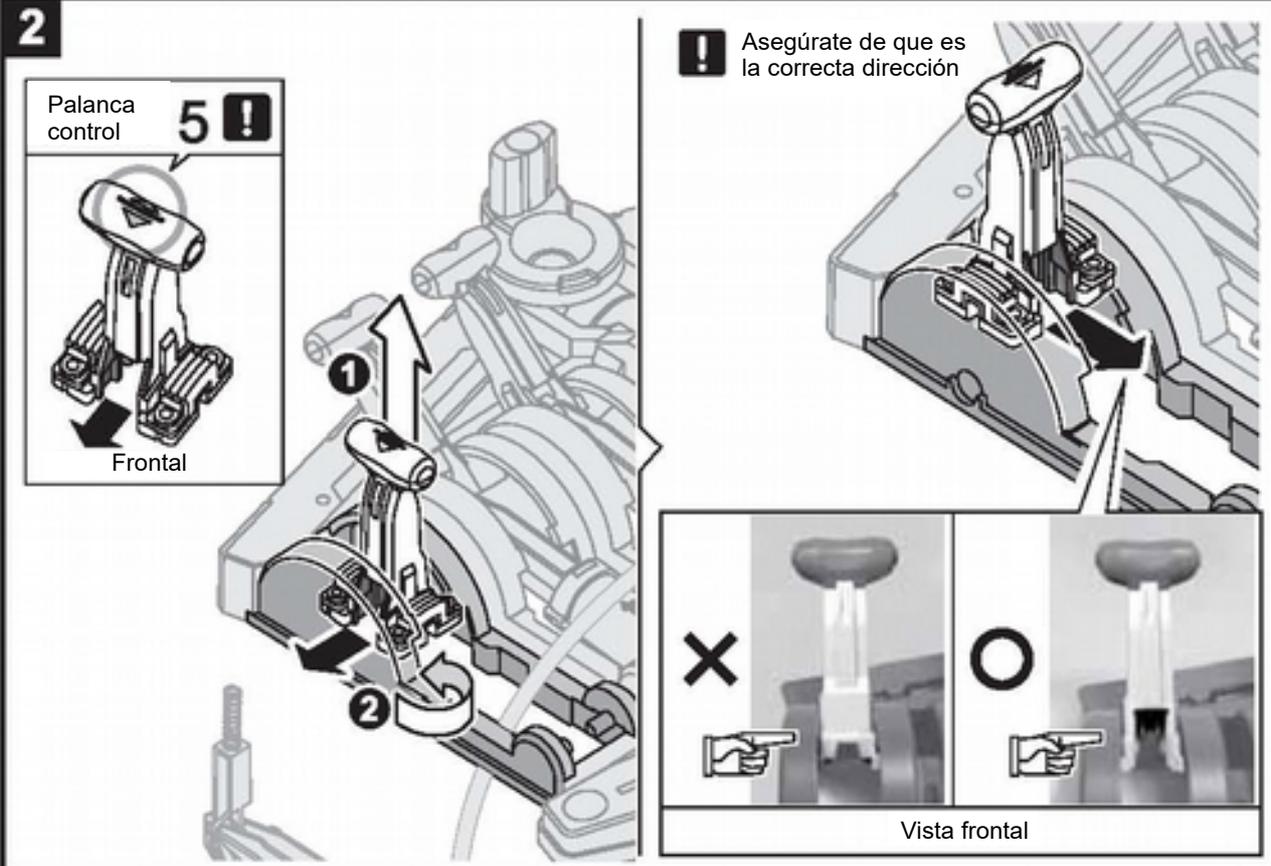
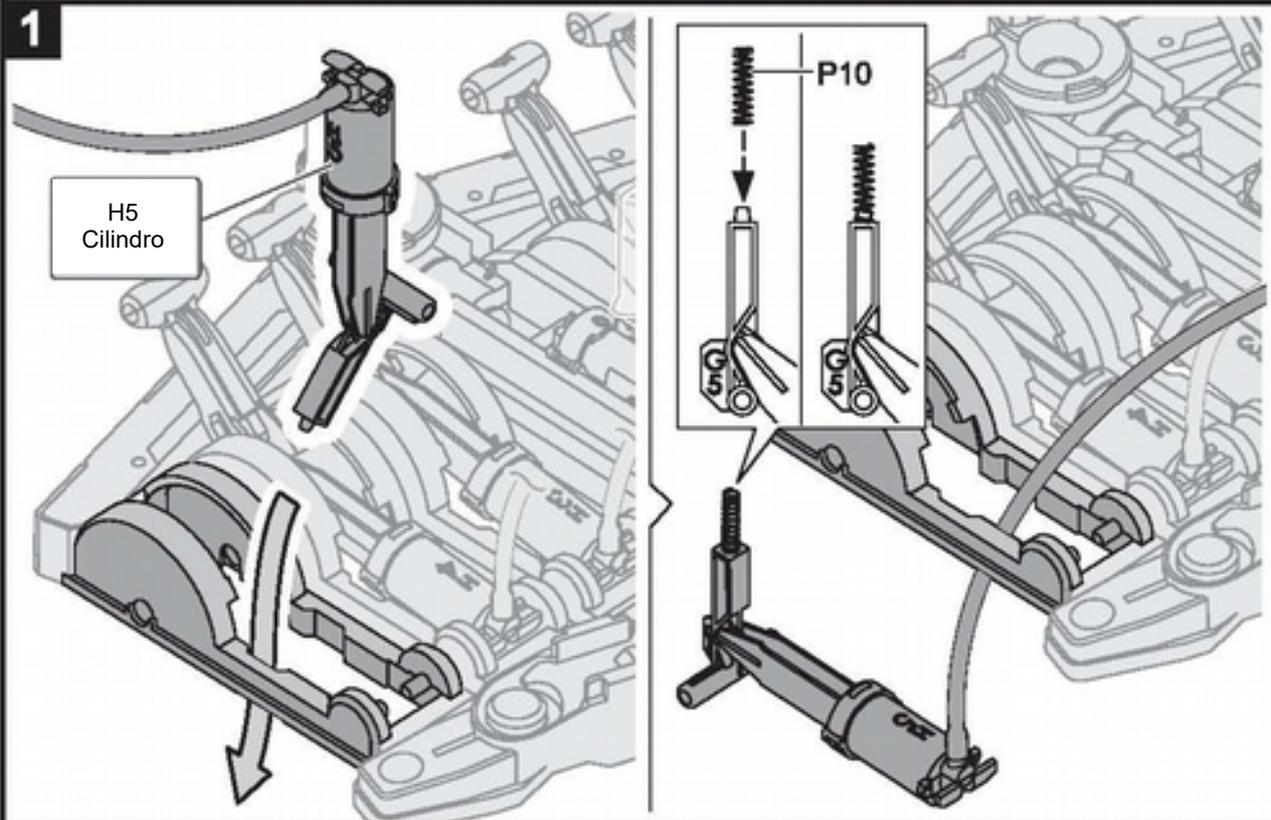
Unit 4 : H4 cilindro y palanca de control 4

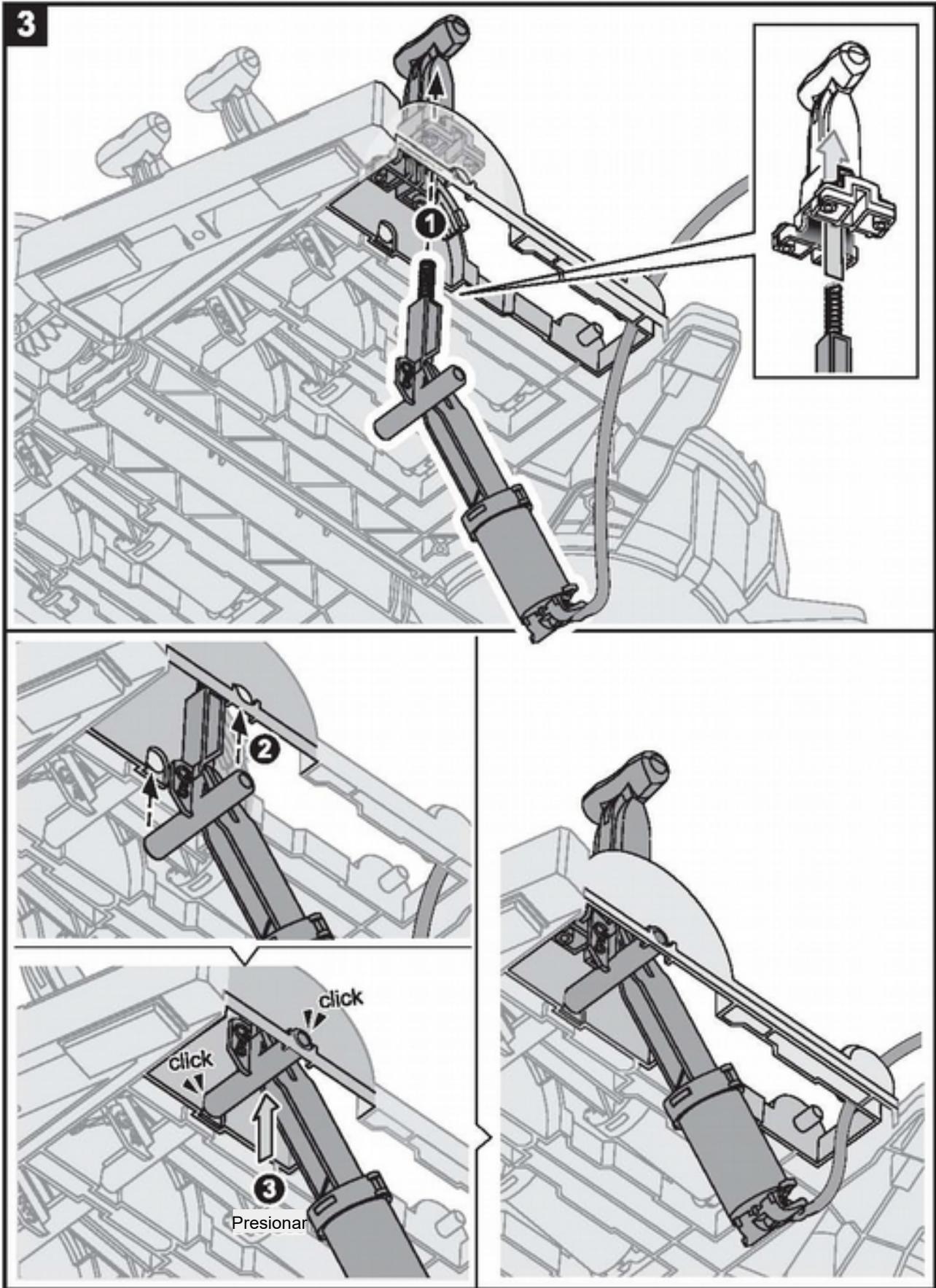


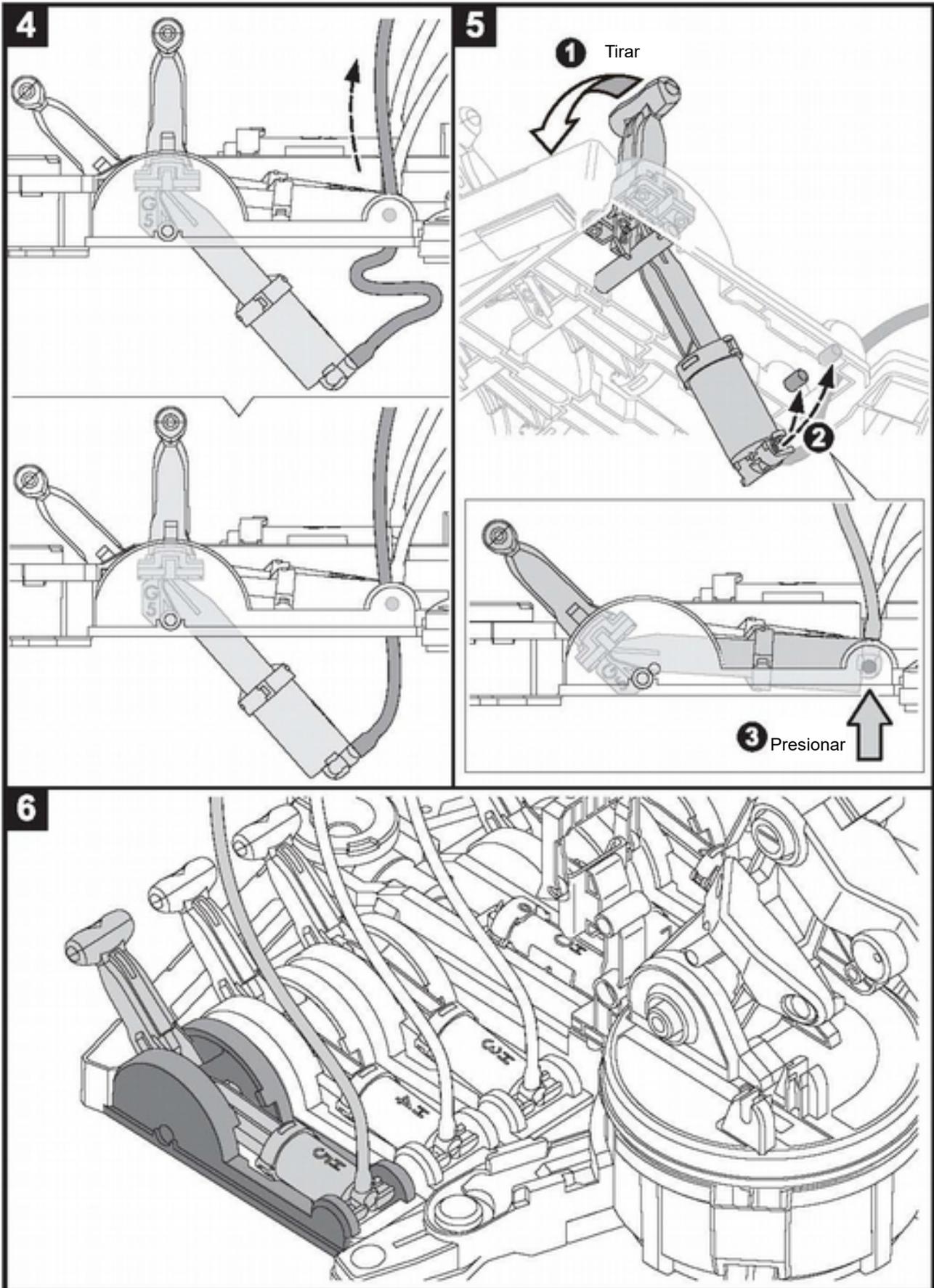




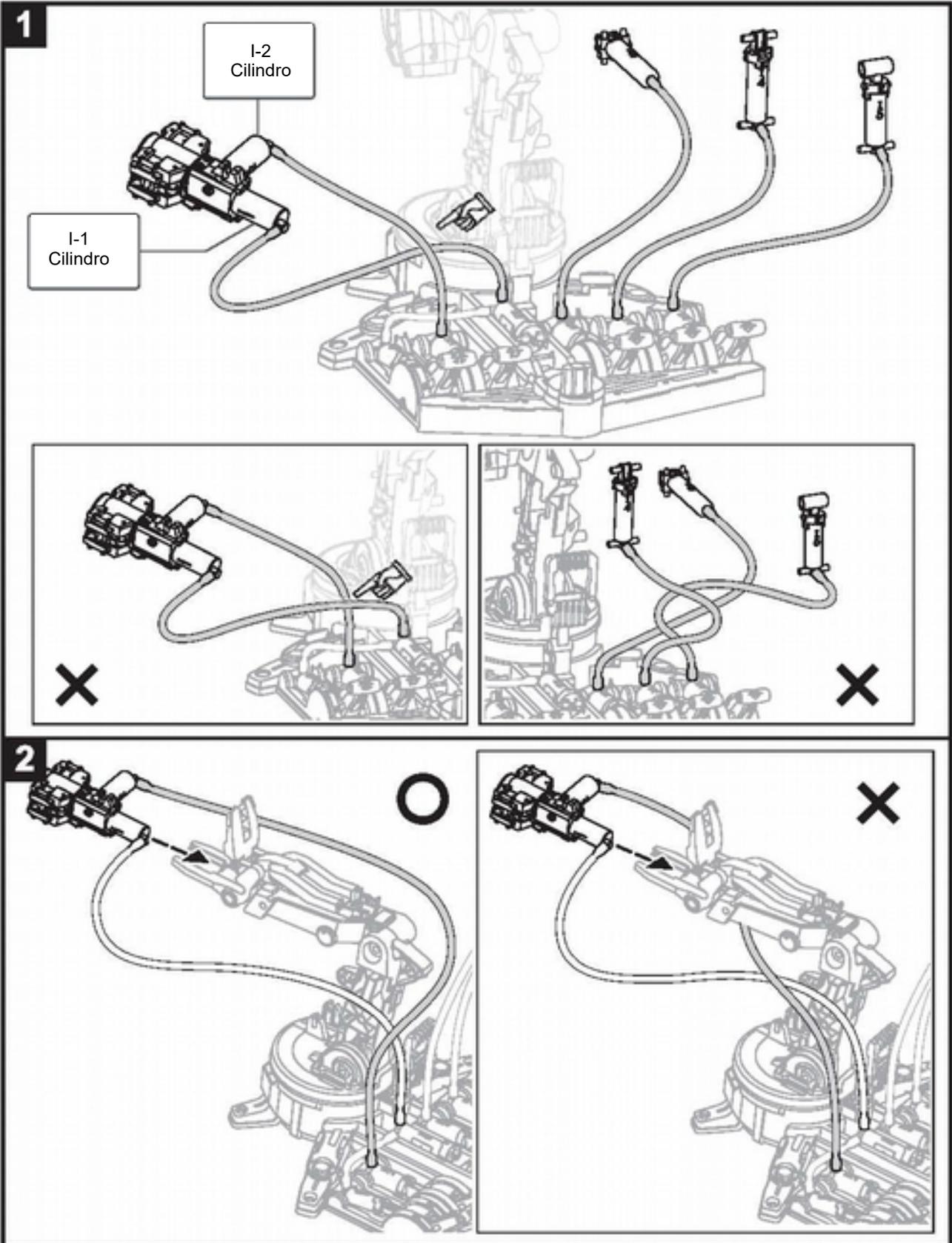
Unit 5 : H5 cilindro y palanca de control 5

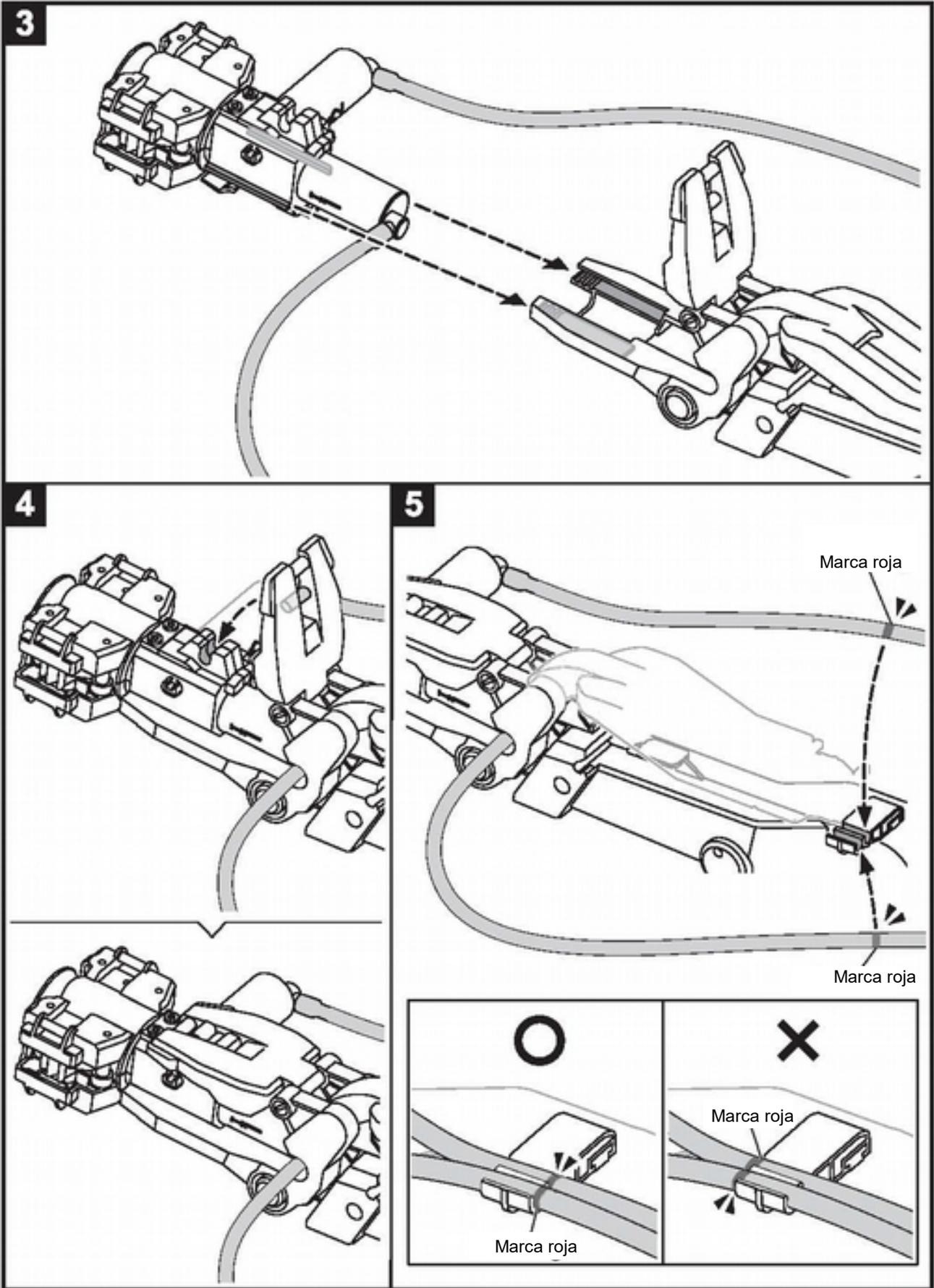


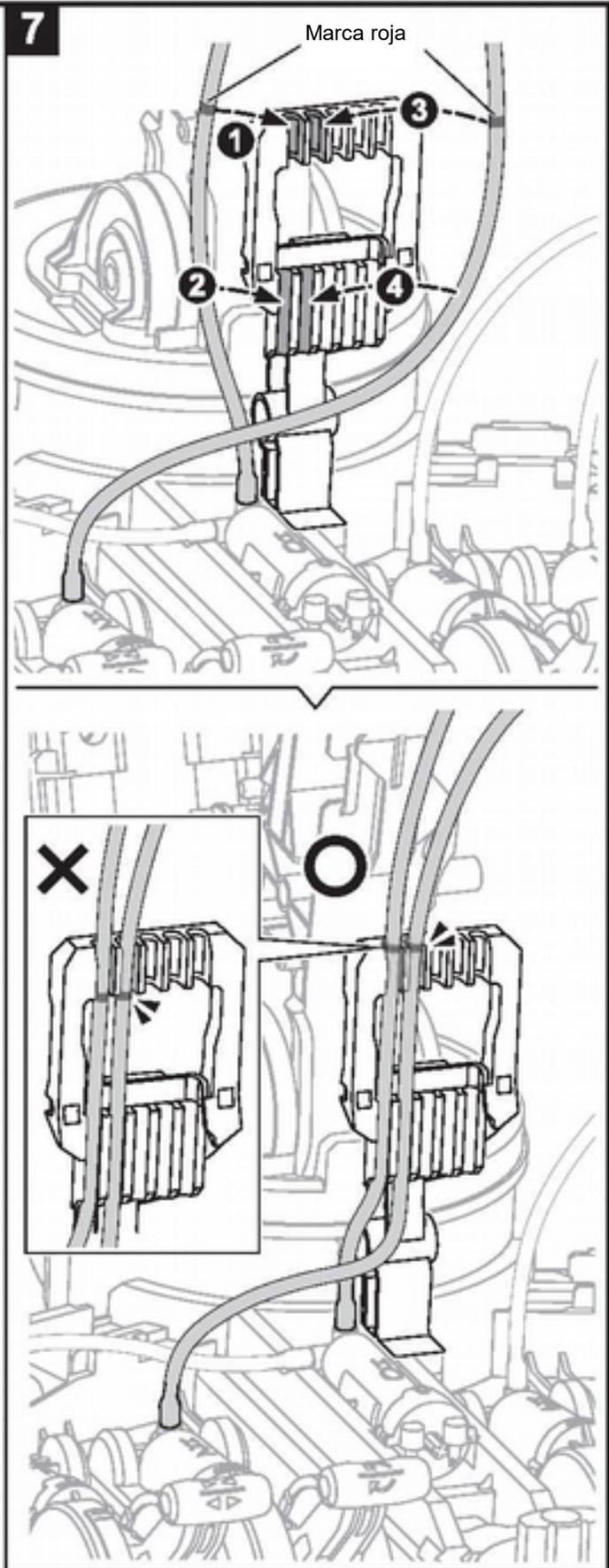
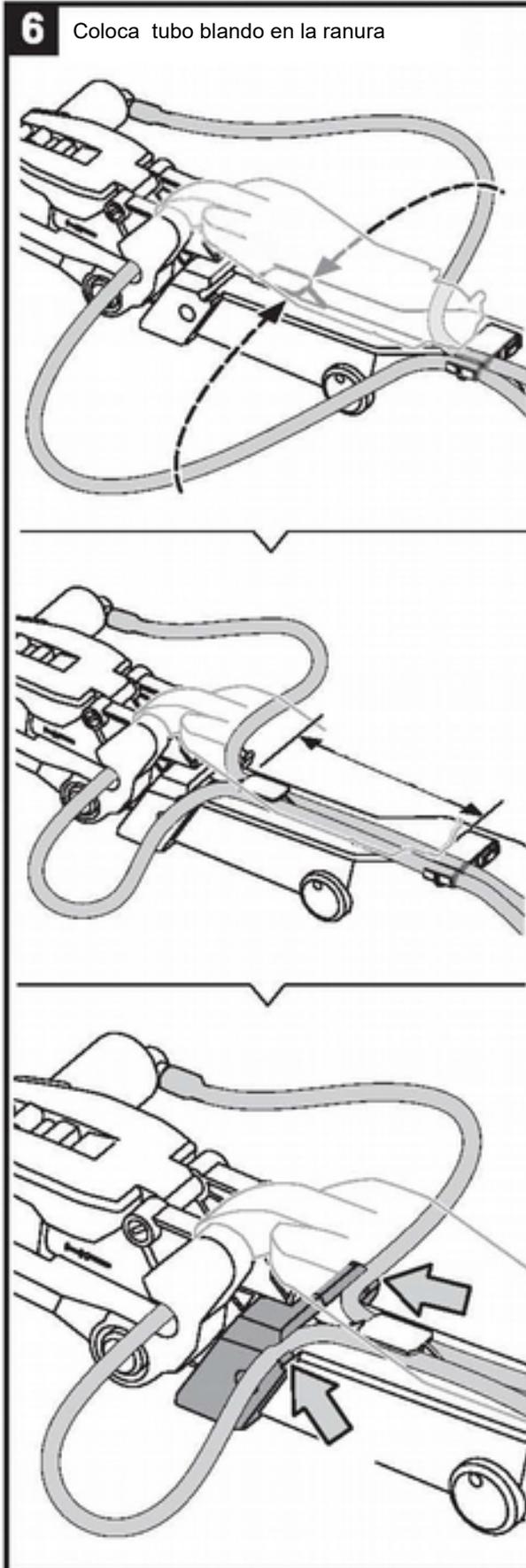


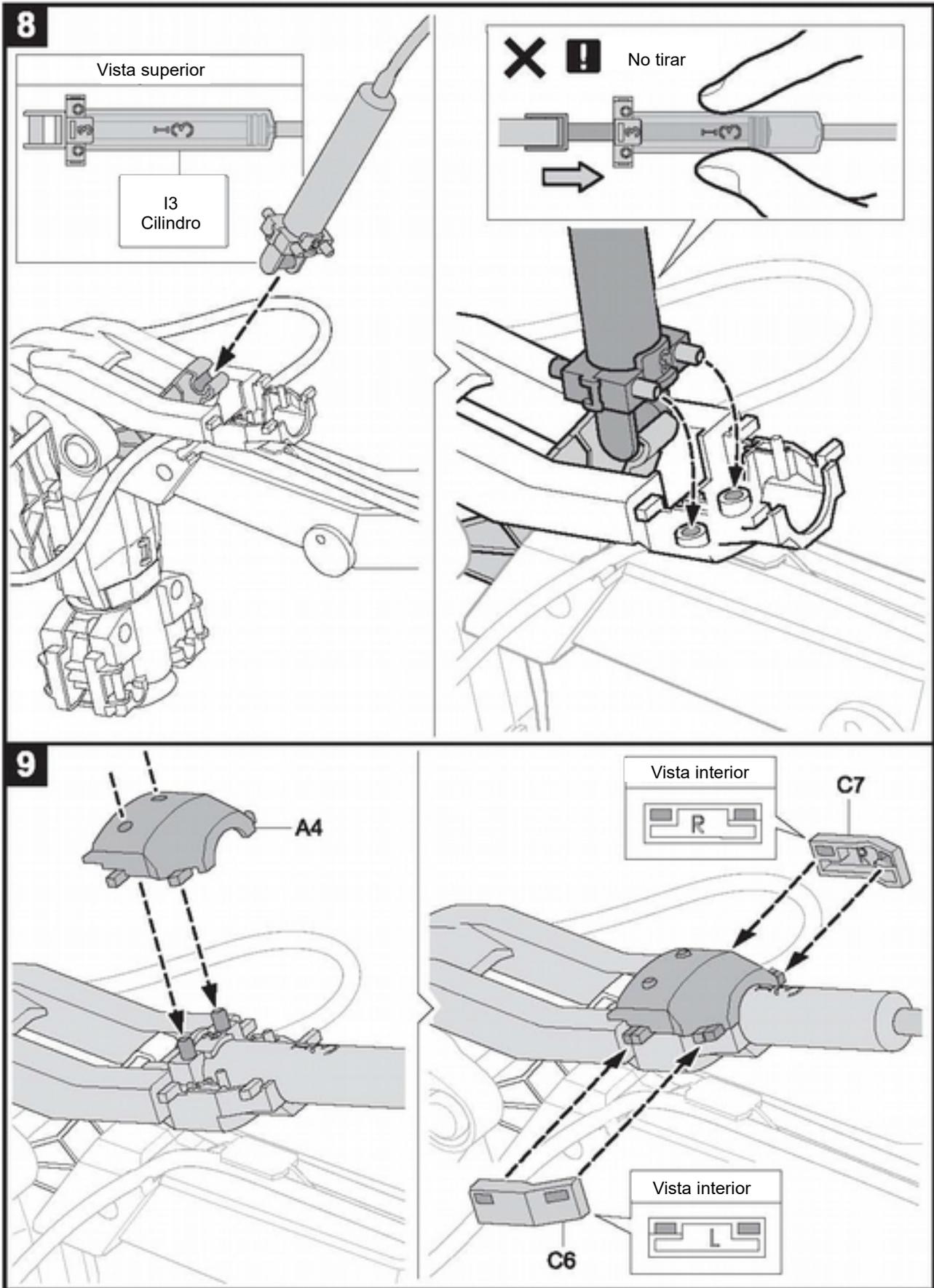


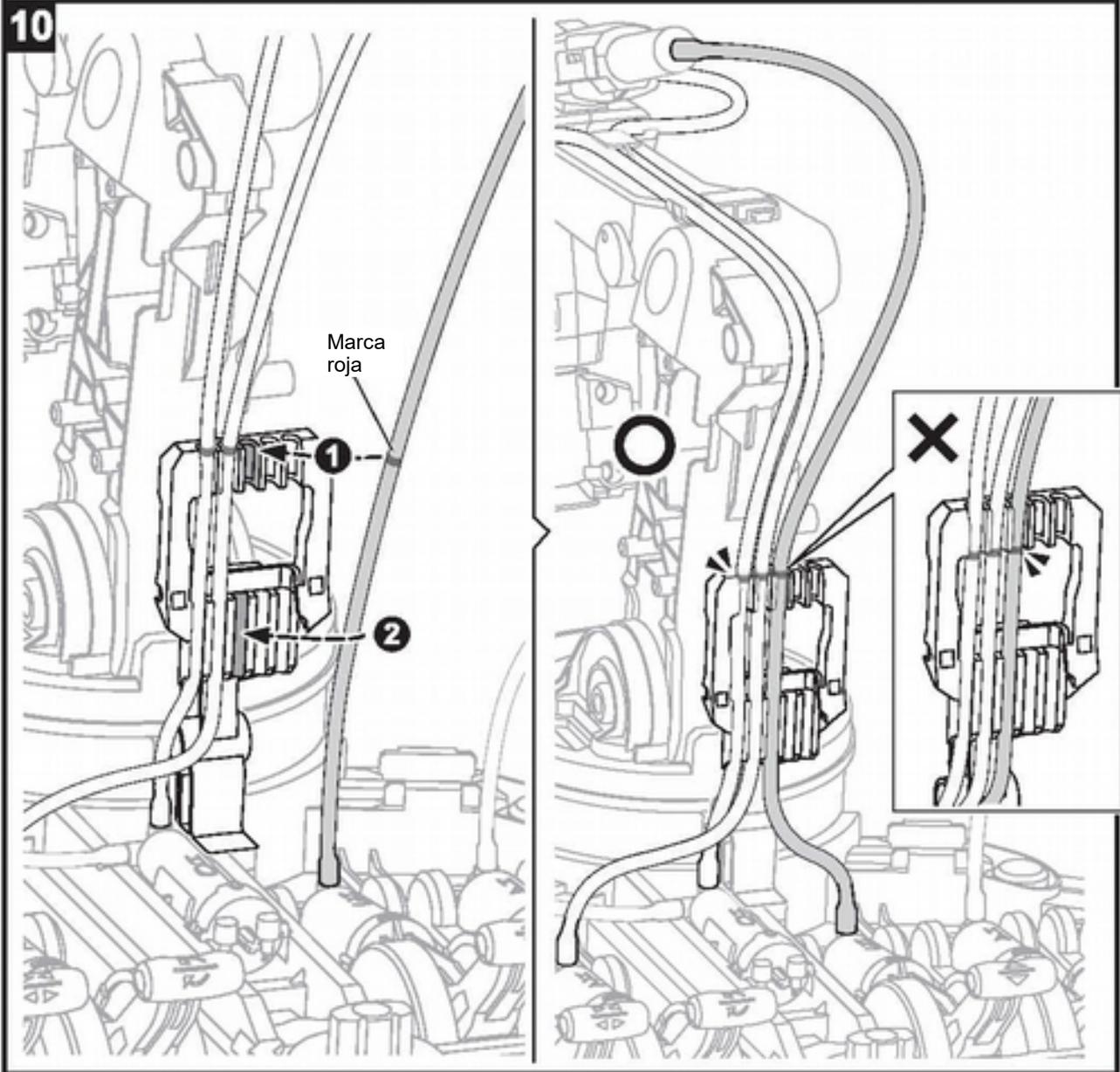
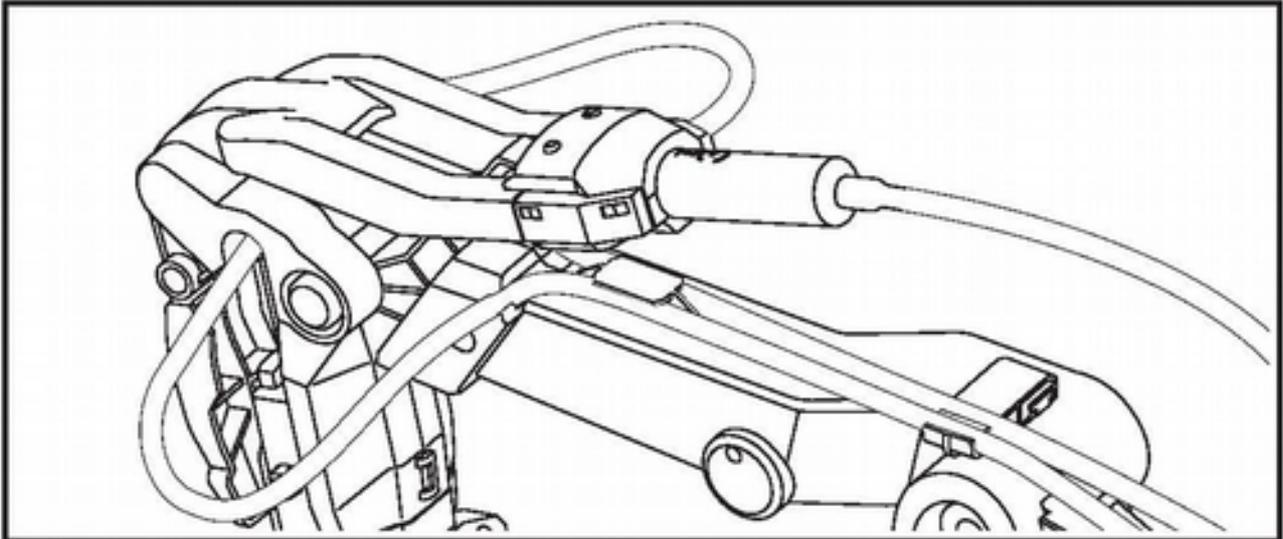
Montaje del brazo robótico

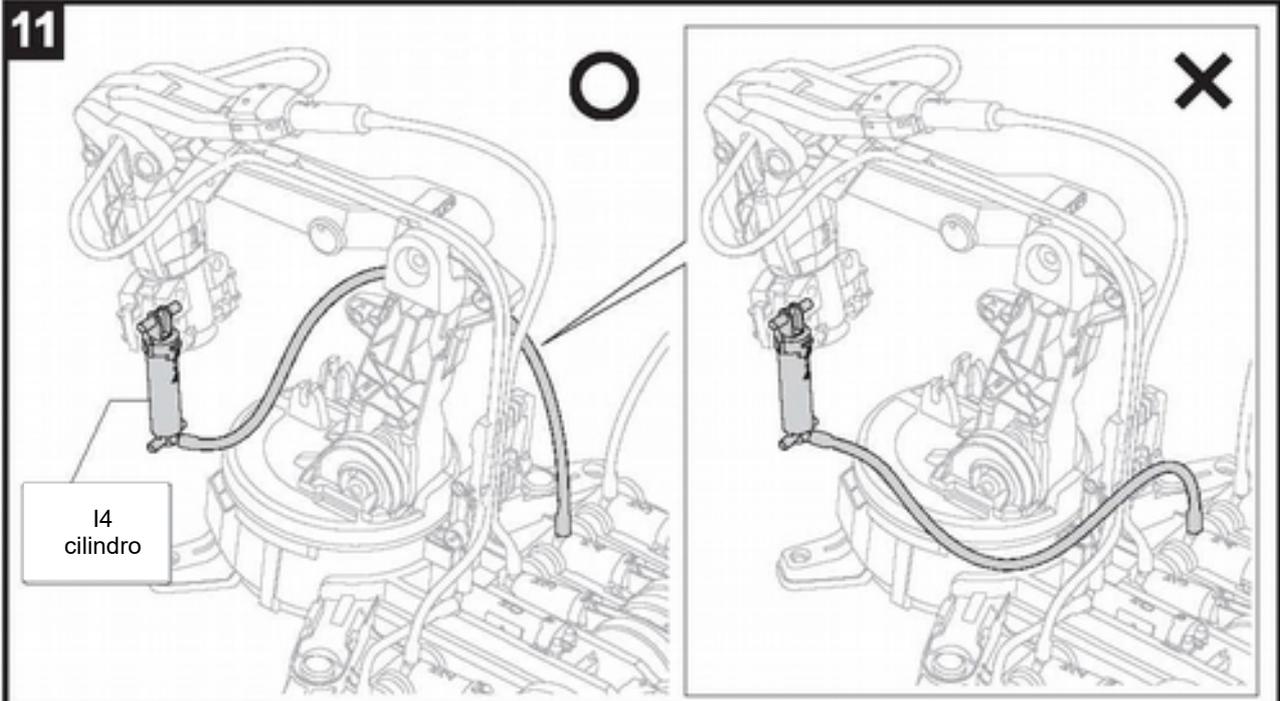




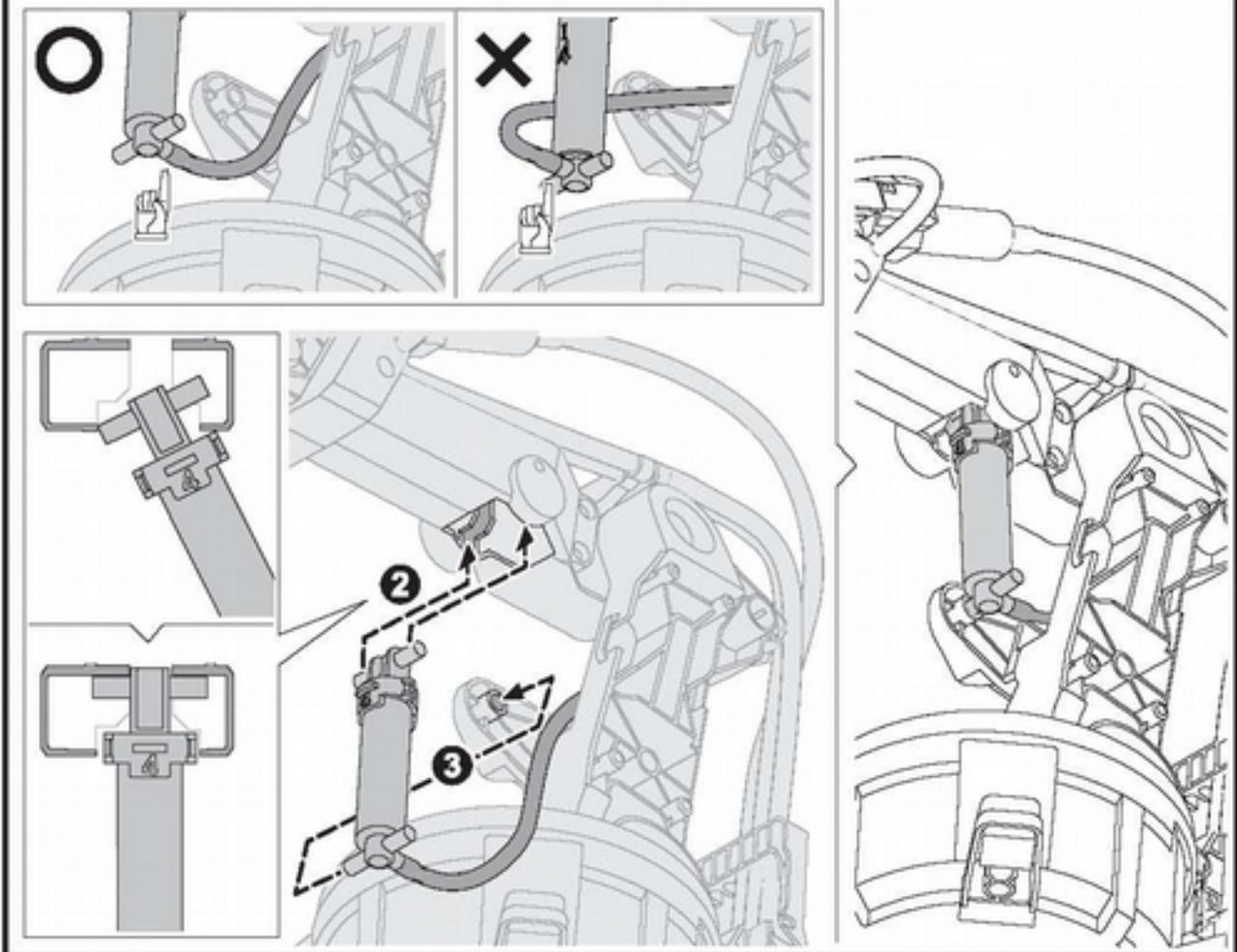


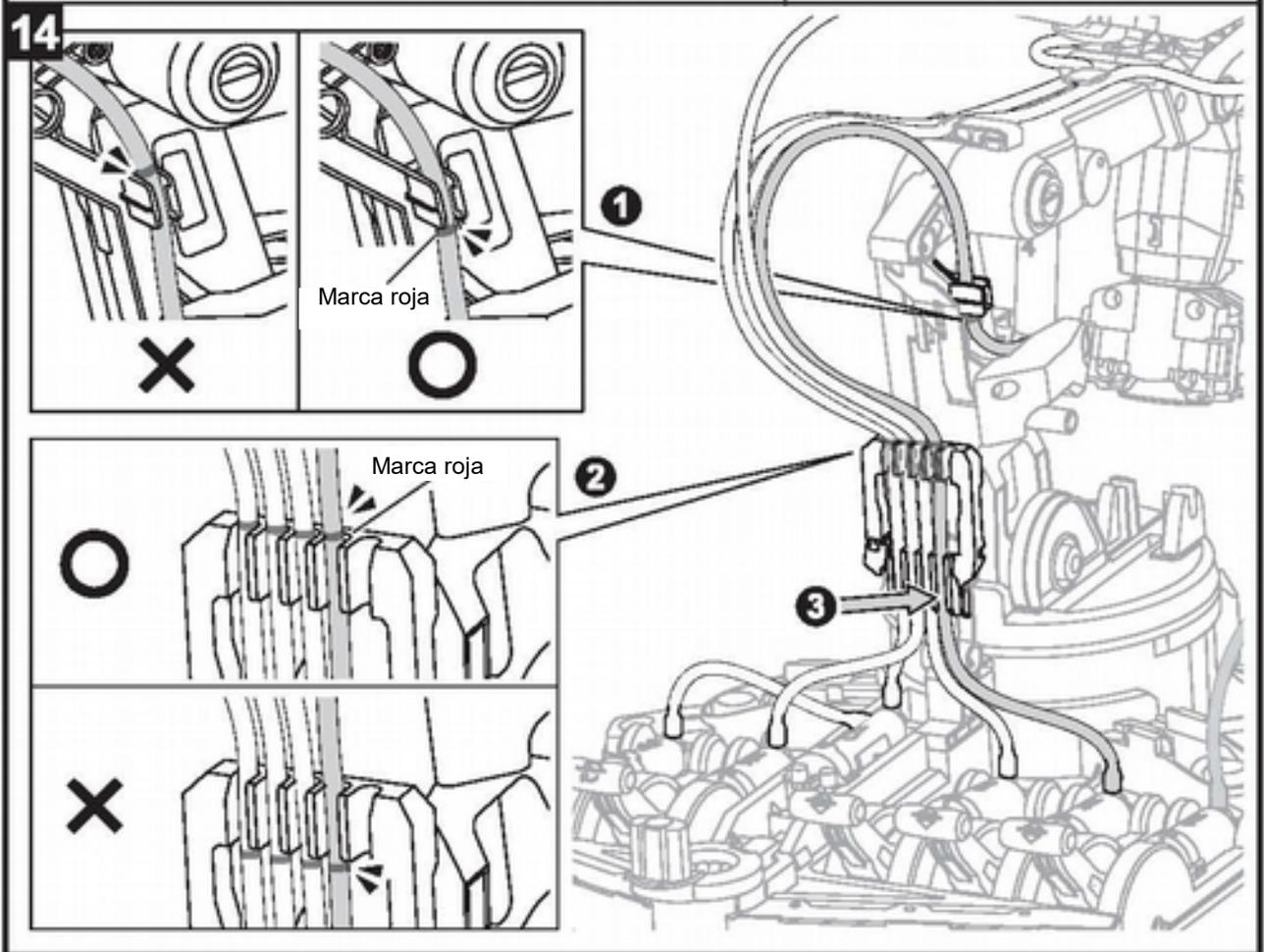
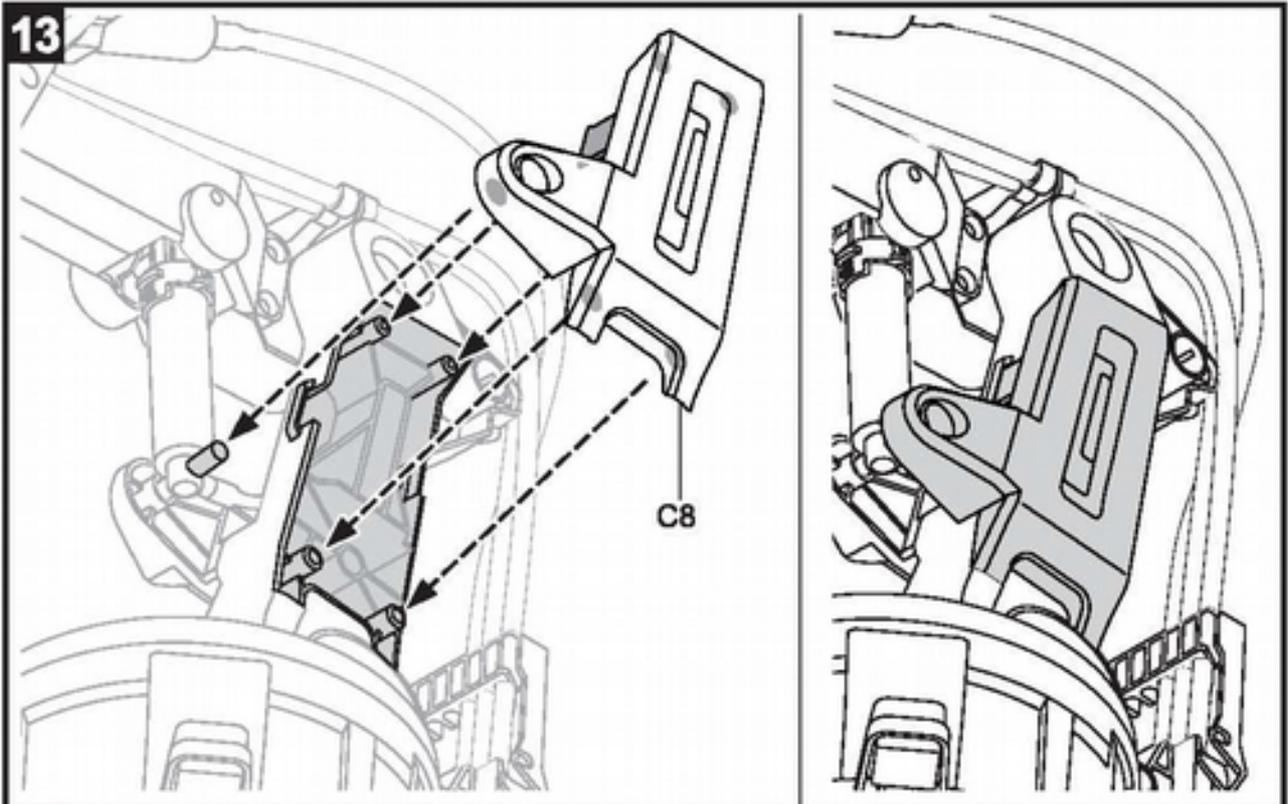


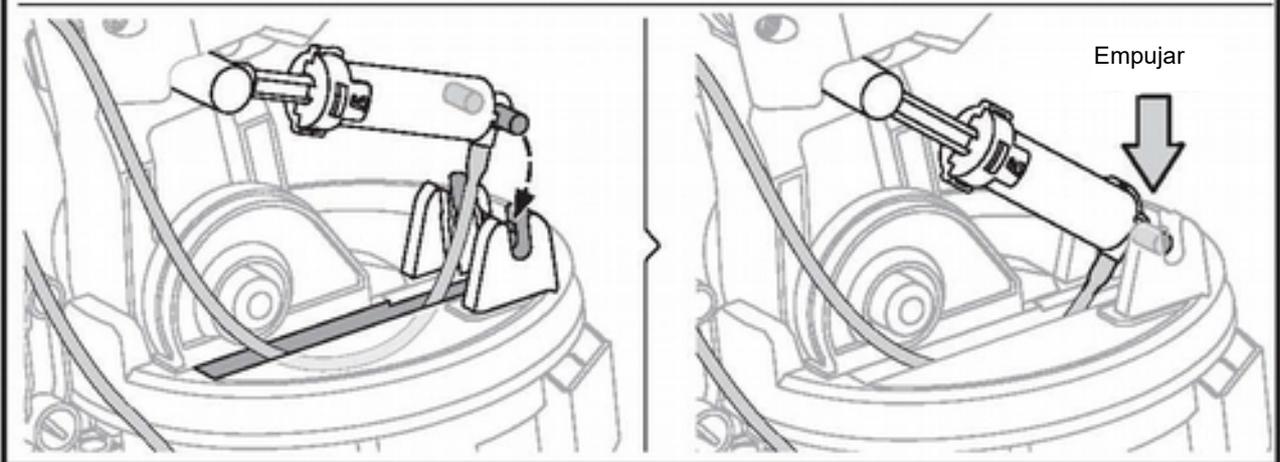
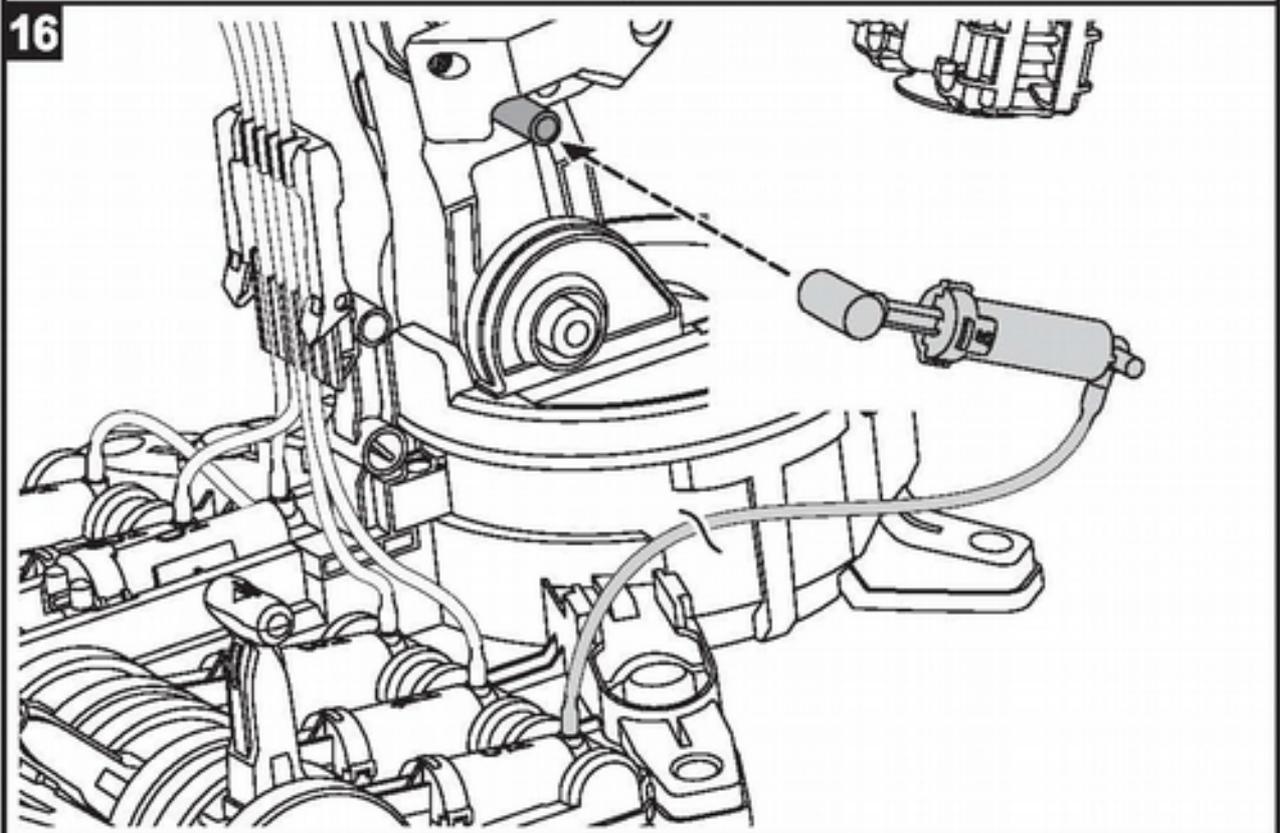
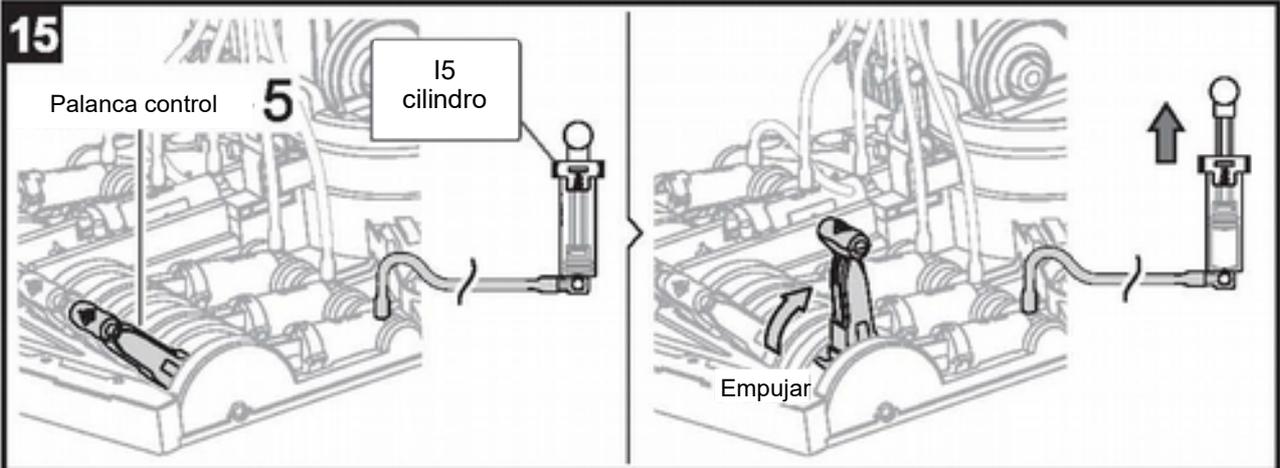


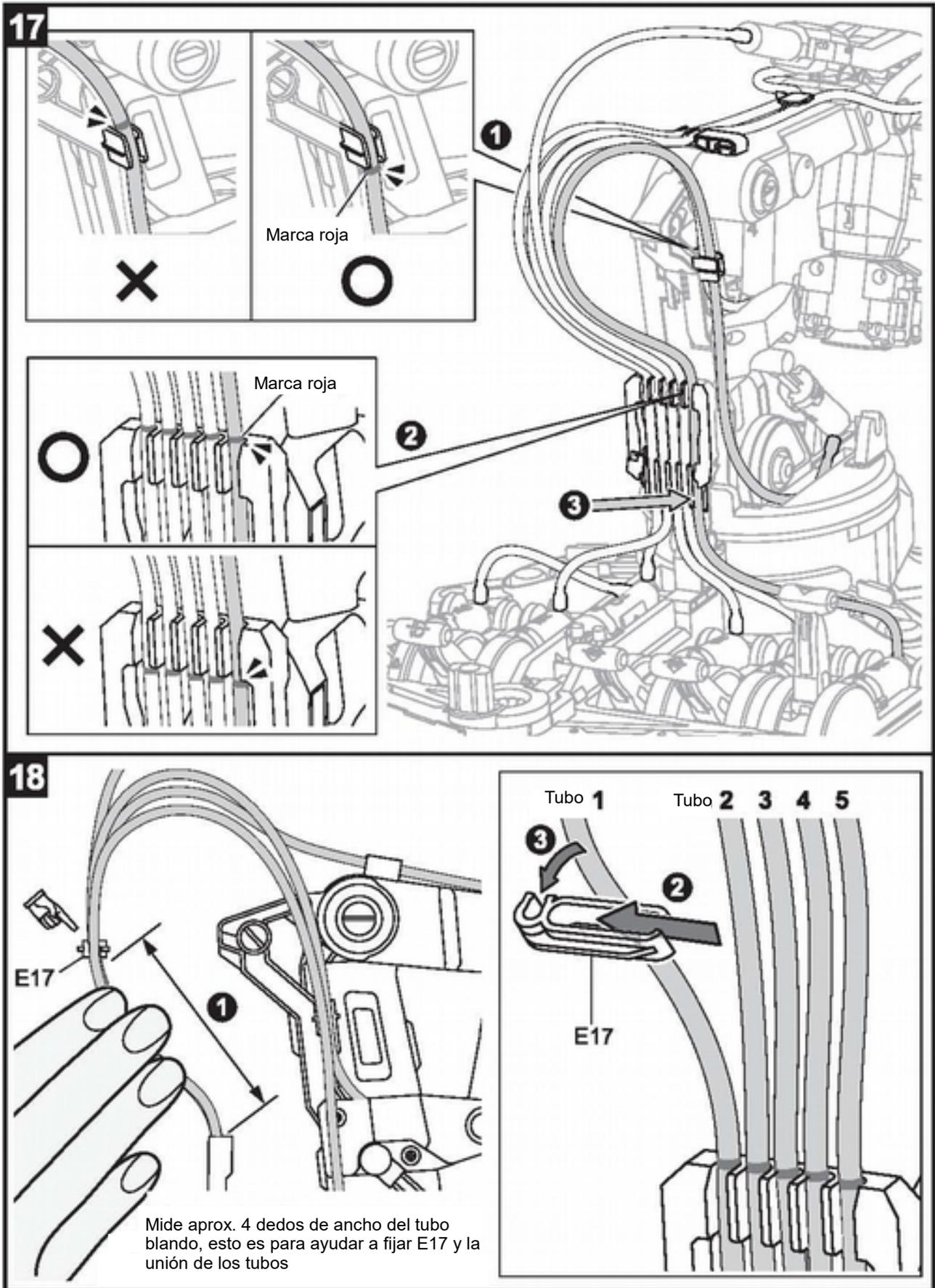


12 **1** Asegúrate de que es la correcta dirección



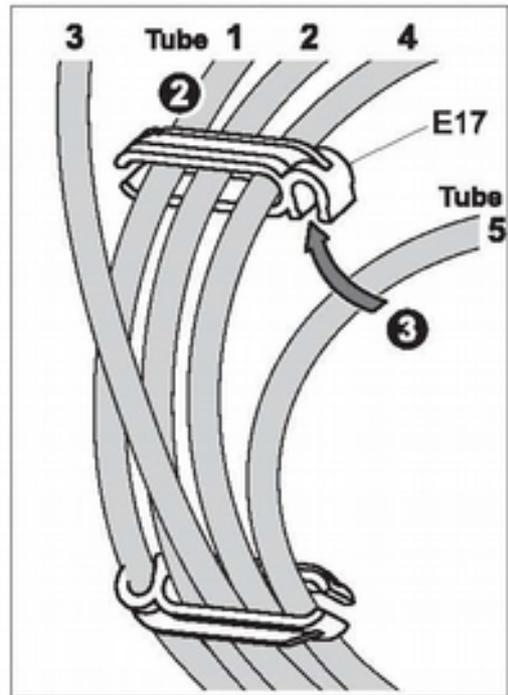
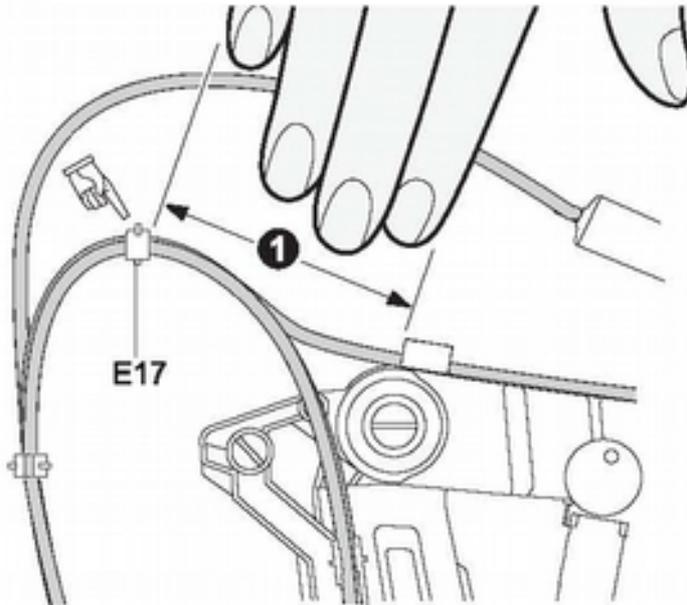




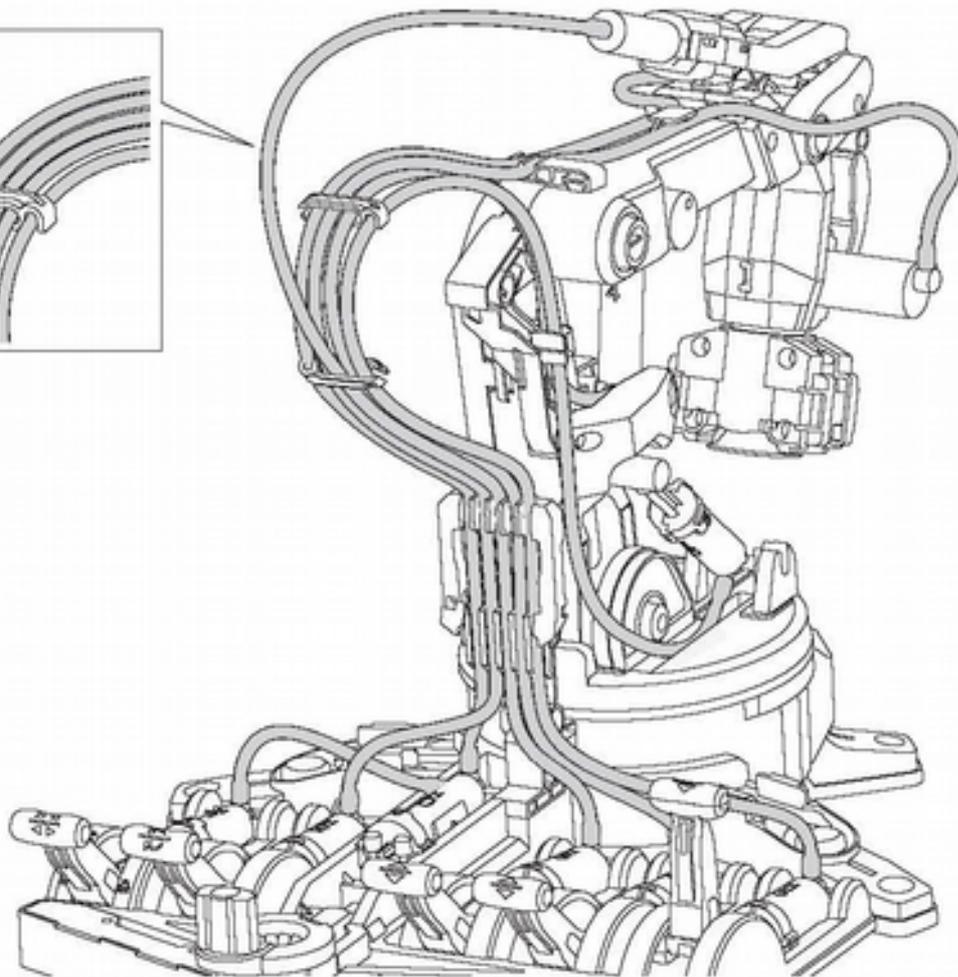
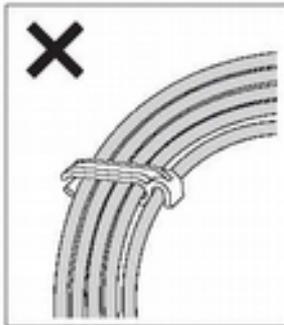


19

Mide aprox. 4 dedos de ancho del tubo blando, esto es para ayudar a fijar E17 y la unión de los tubos

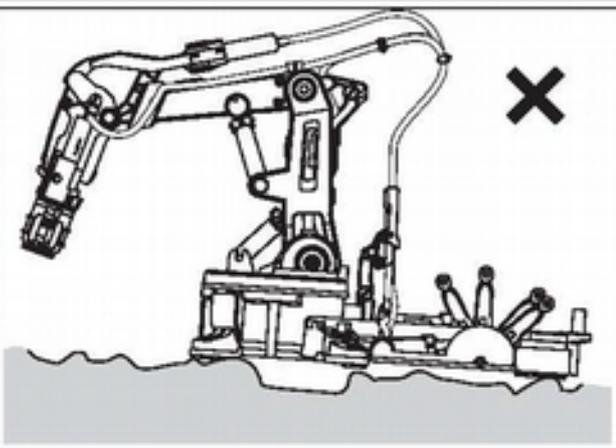
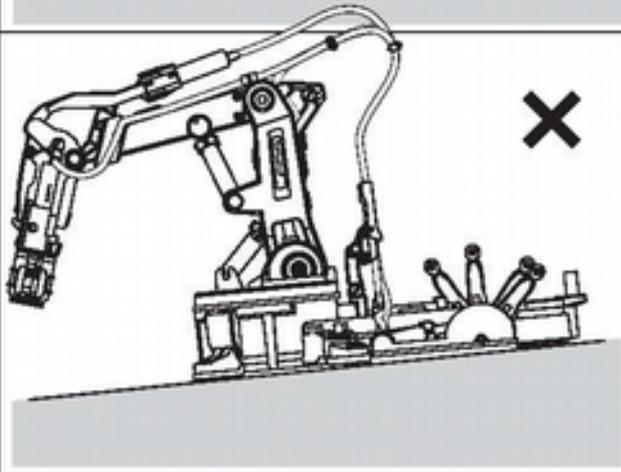
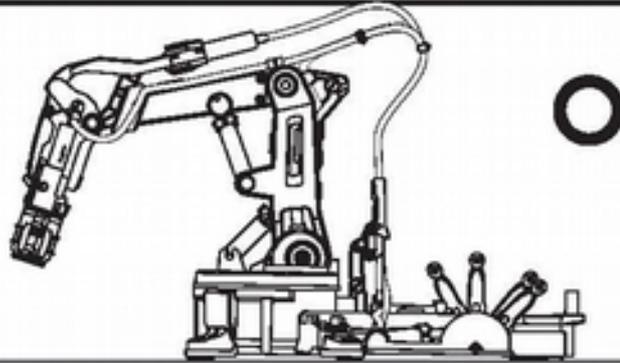


20

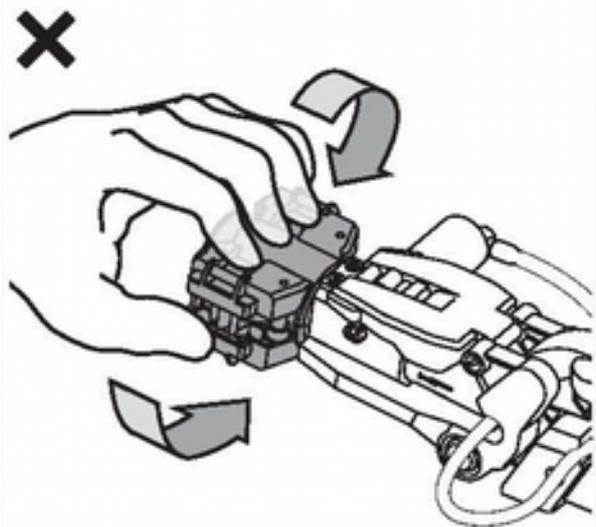
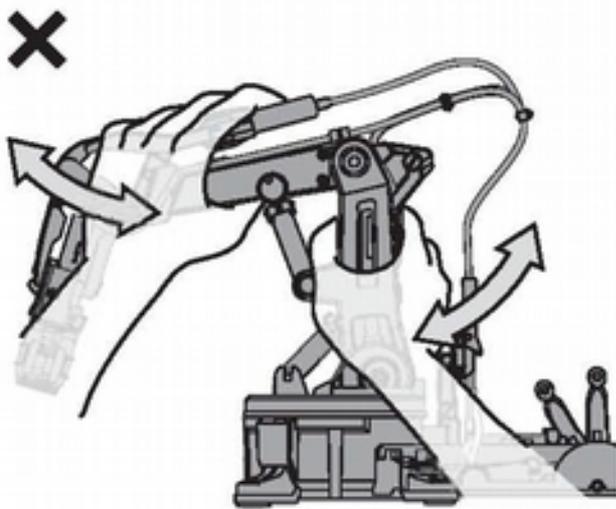


Como Jugar

ATENCIÓN

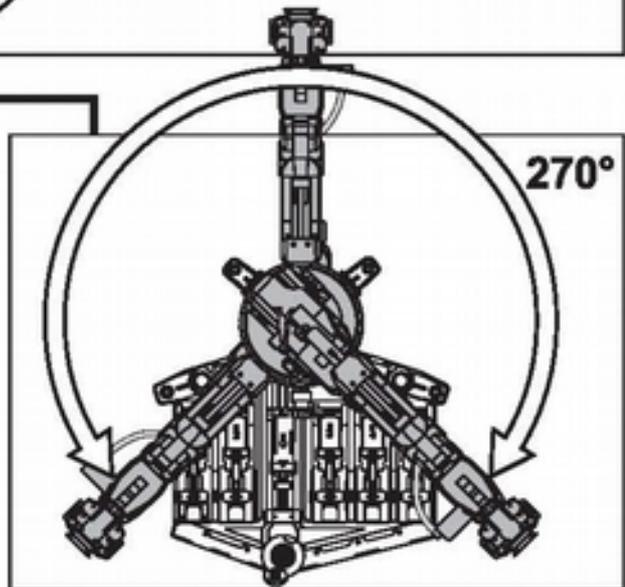
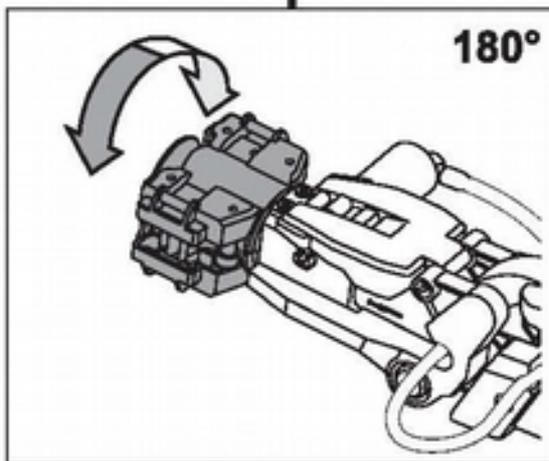
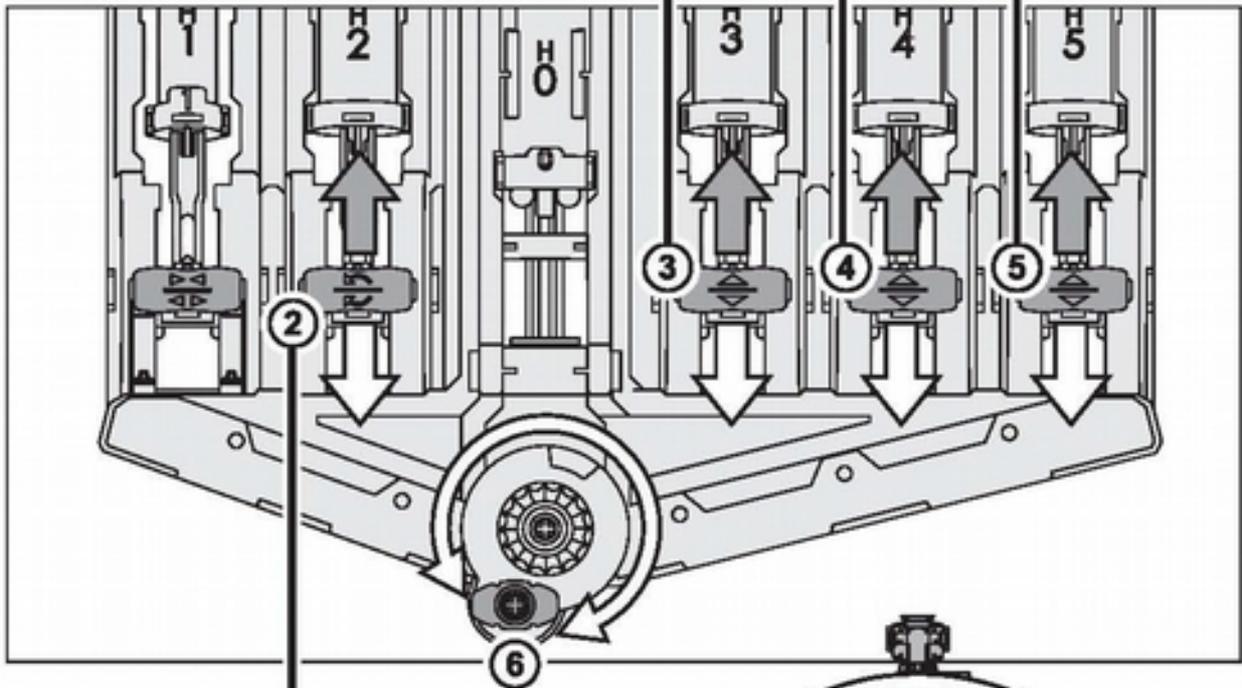
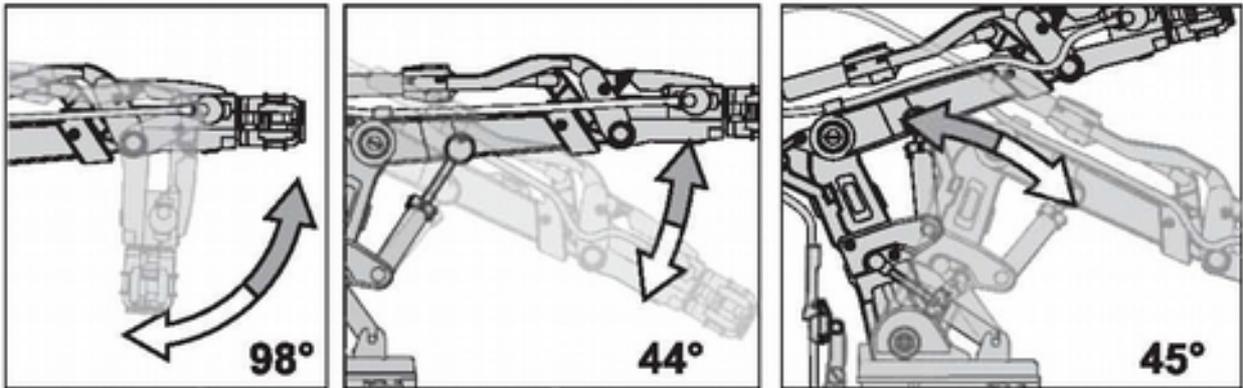


HACERLO FUNCIONAR EN UNA BASE LISA Y ANIVELADA



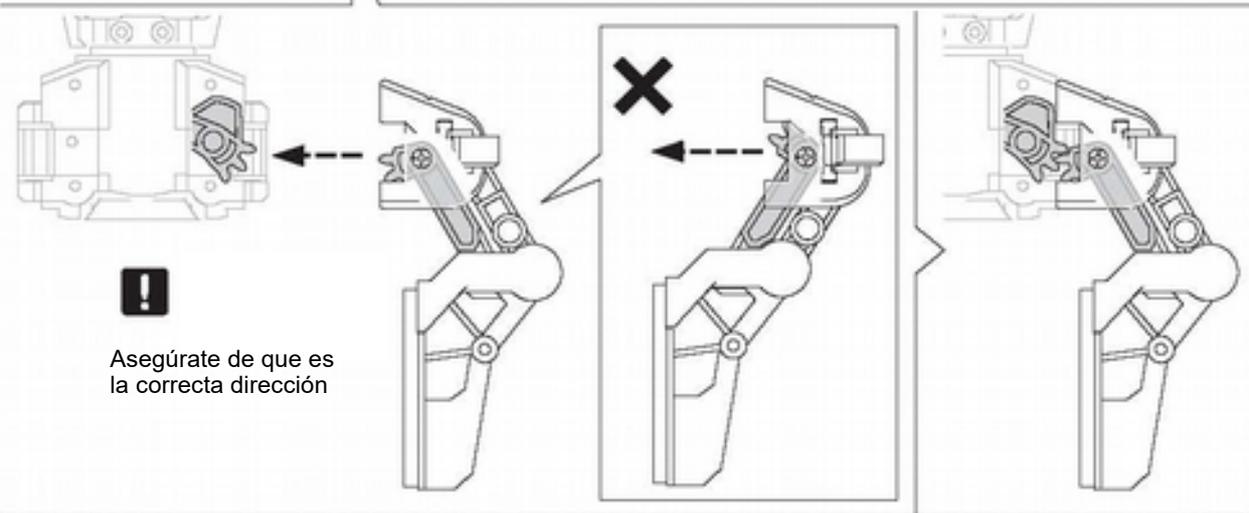
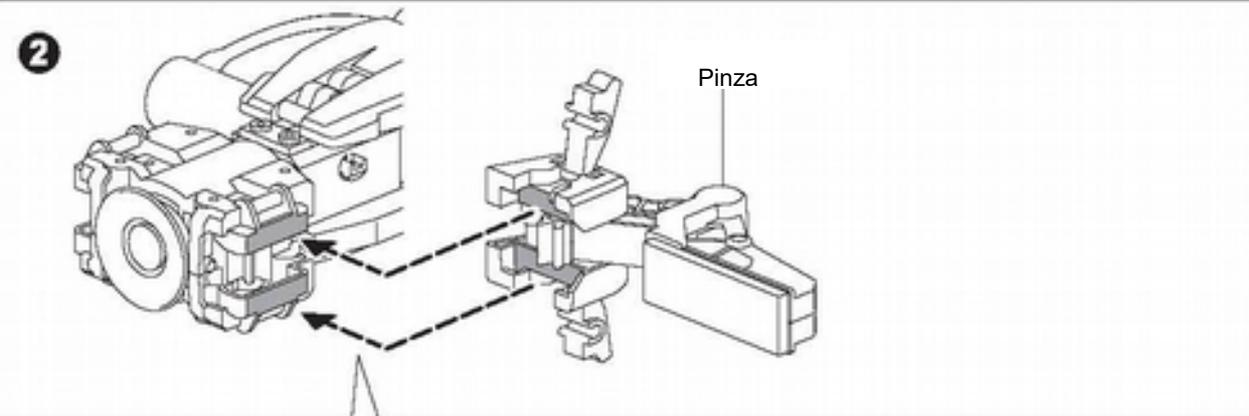
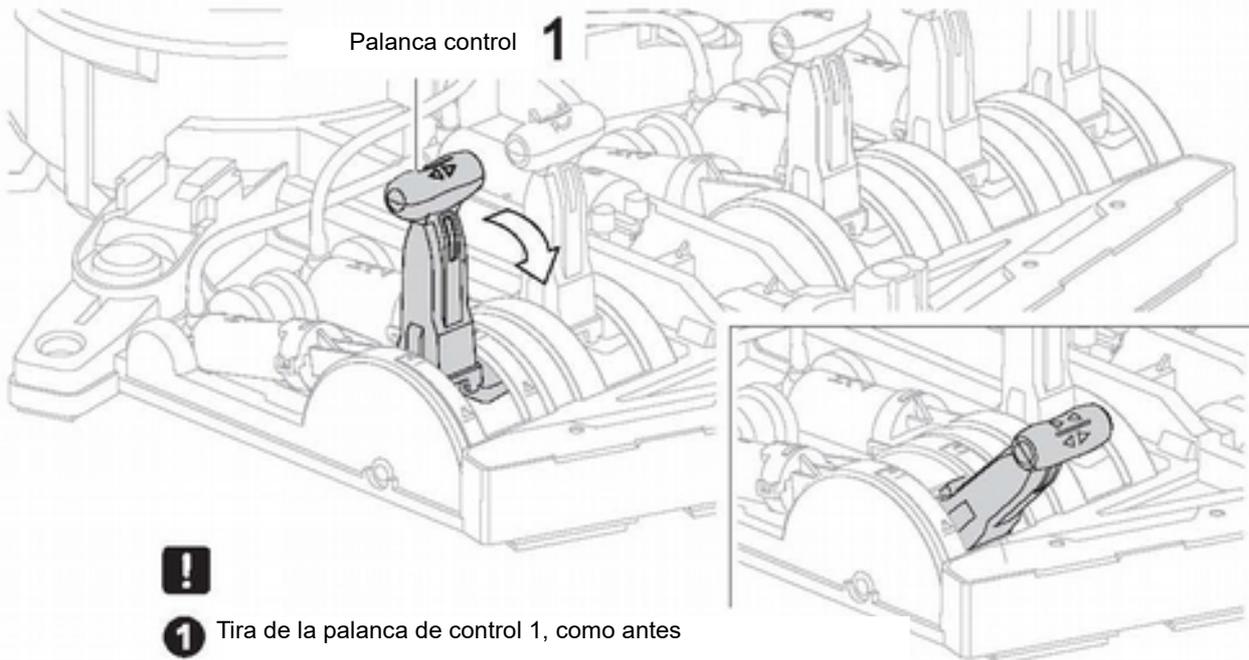
Manejar el brazo con cuidado y no maltratar como se muestra arriba

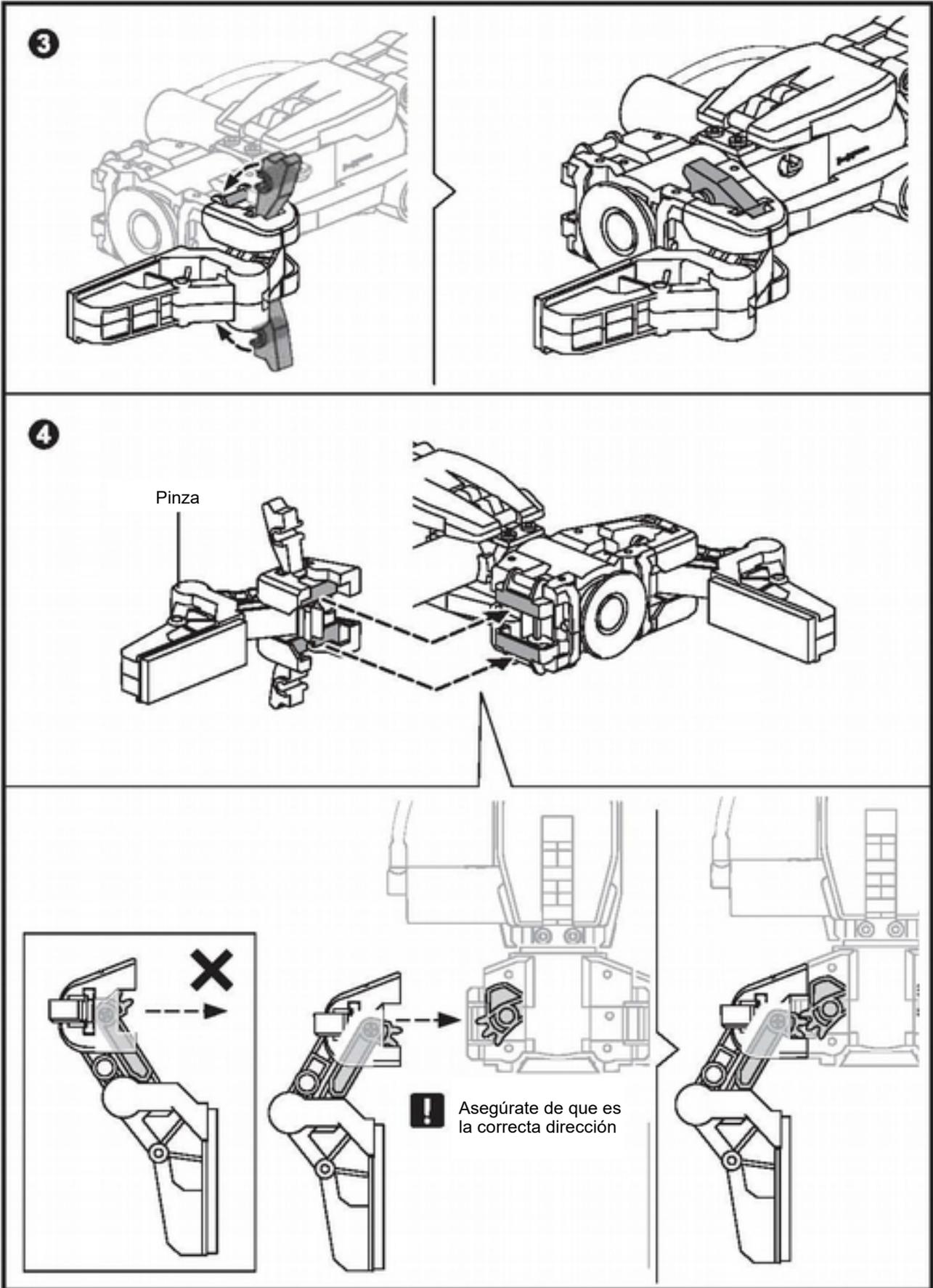
¿Cómo se juega: 2 - 6 ejes

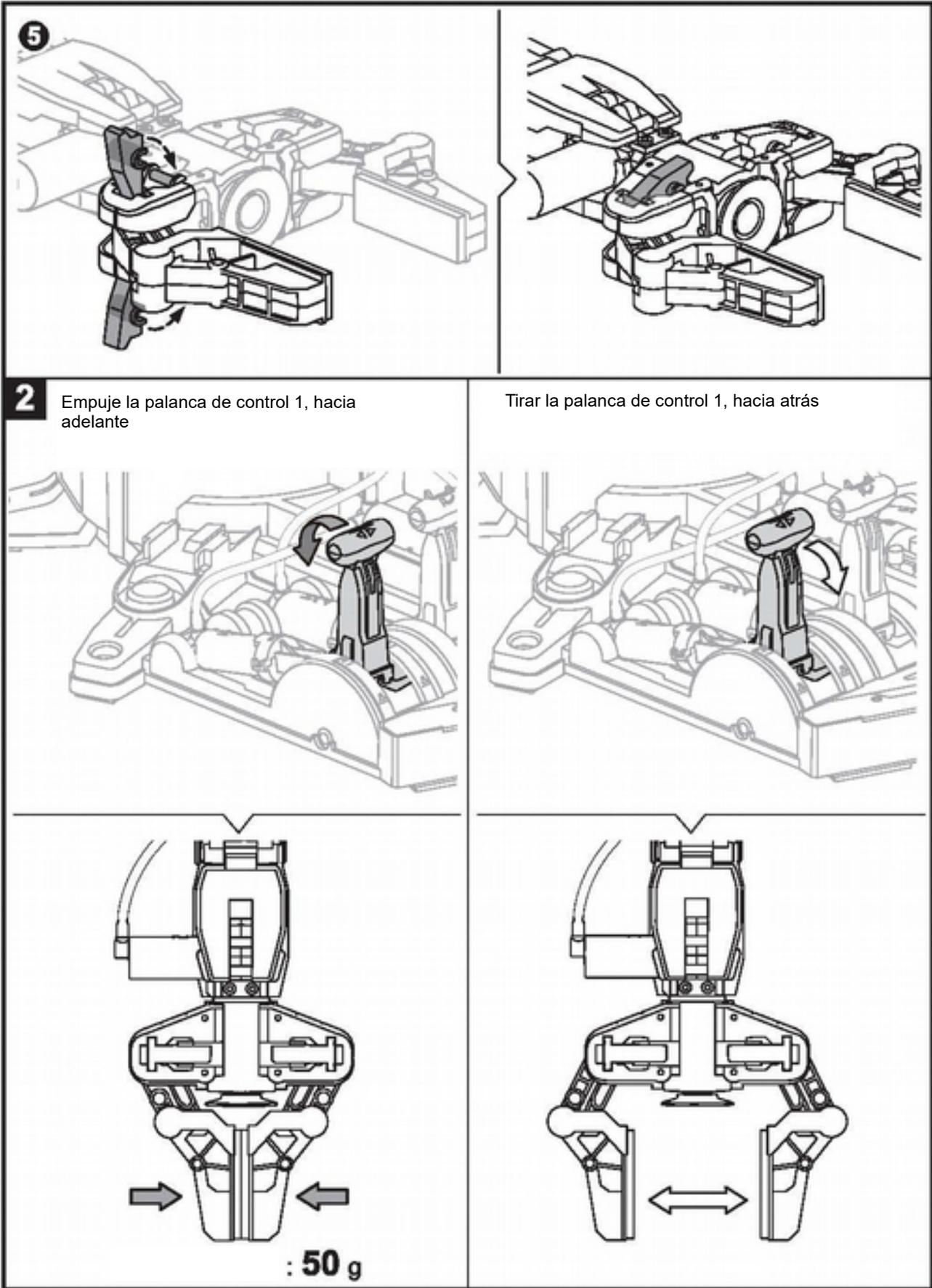


¿Cómo se juega – mover la pinza

1 Instalación

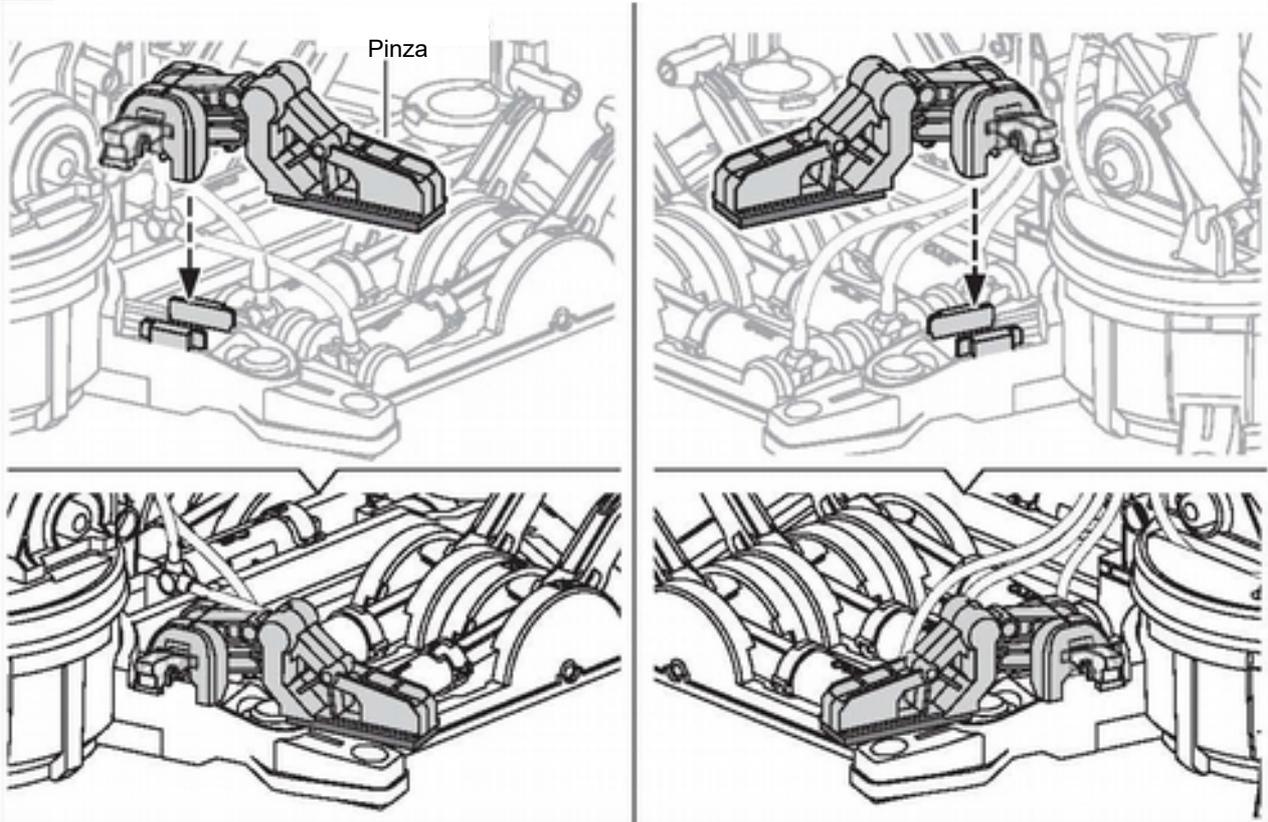




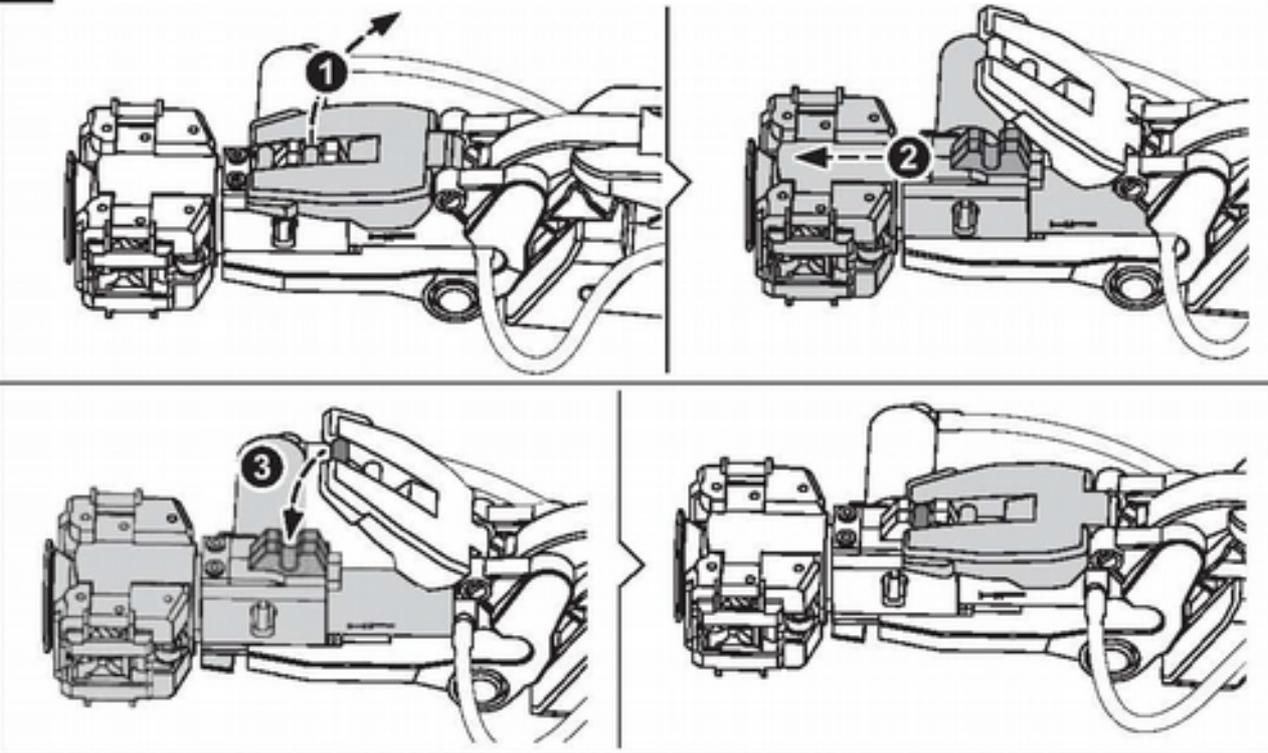


¿Cómo se juega - el modo de aspiración

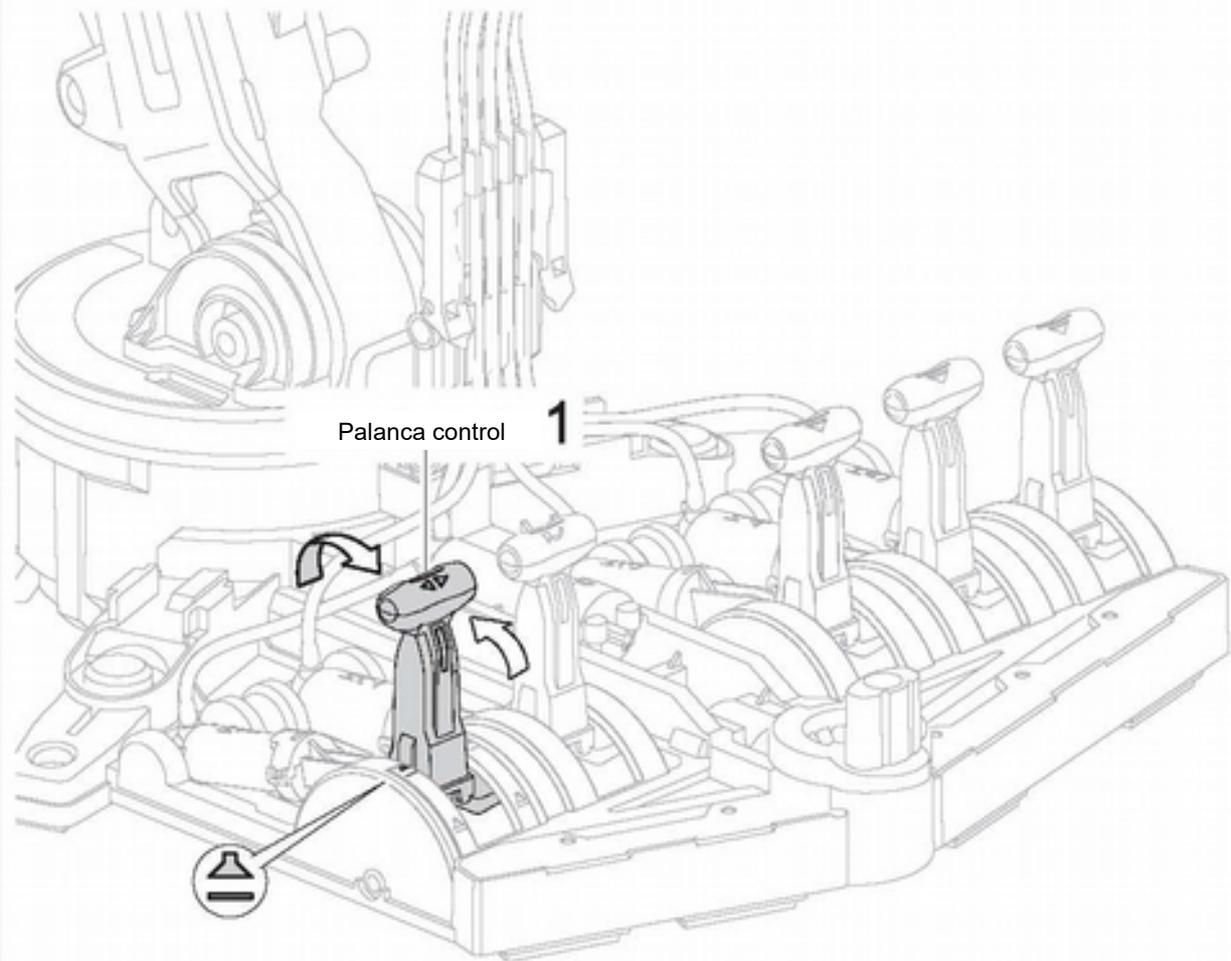
- 1** Soltar la pinzas y dejarla a un lado de la siguiente manera



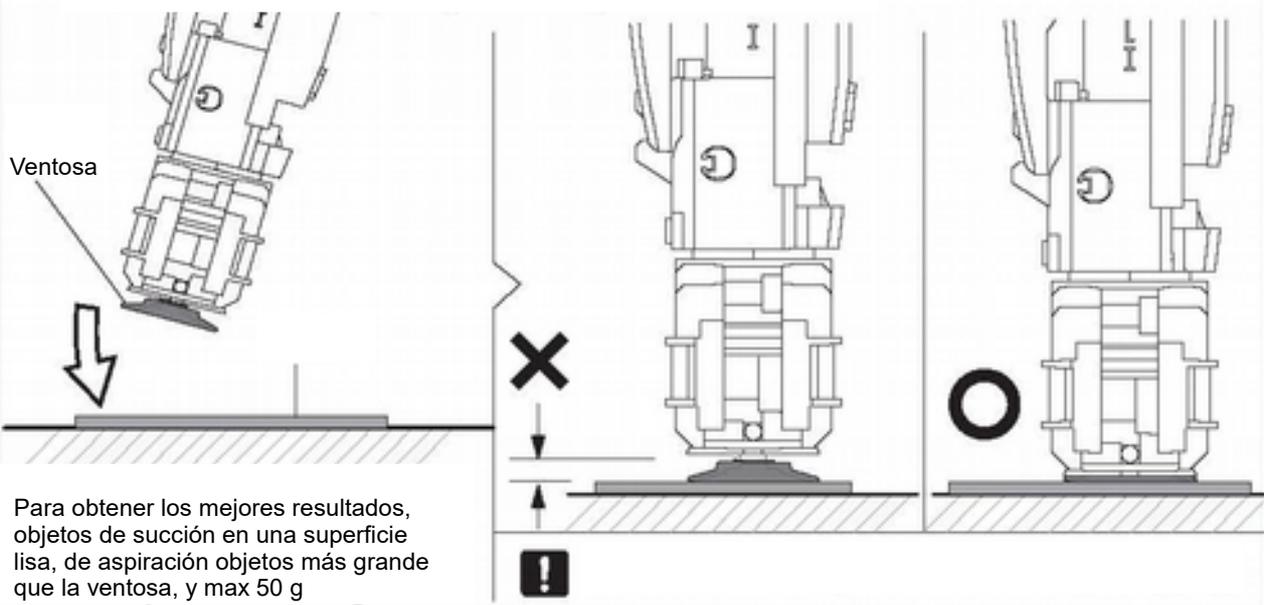
2



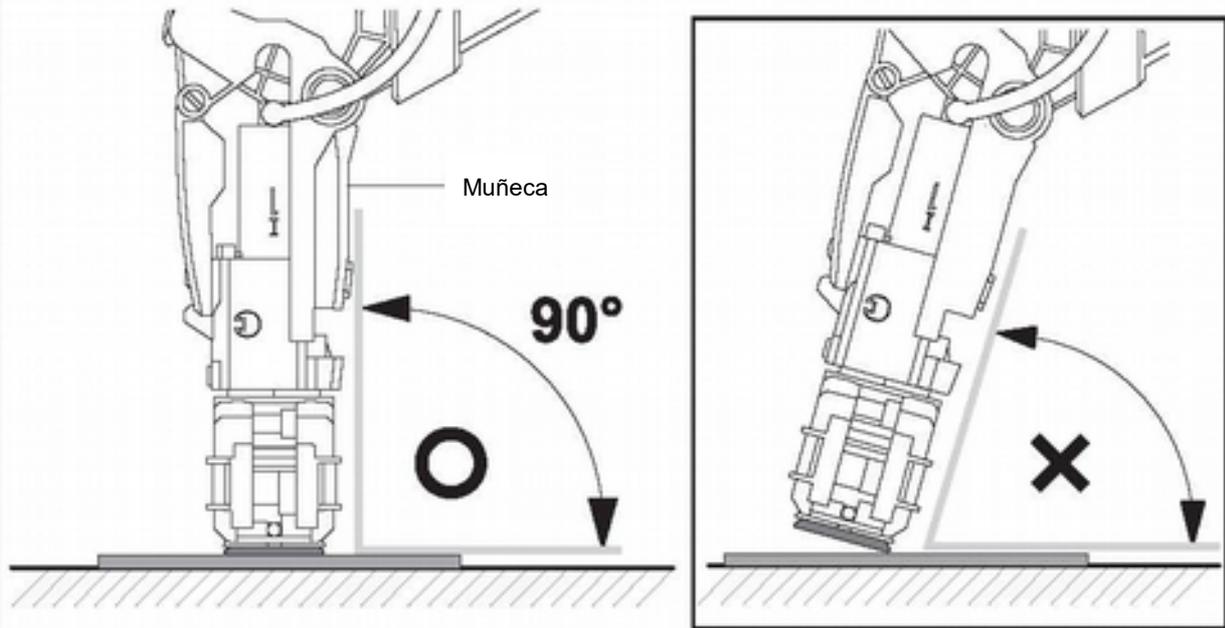
3 Ajustar la placa de control 1 en el medio, de la siguiente manera



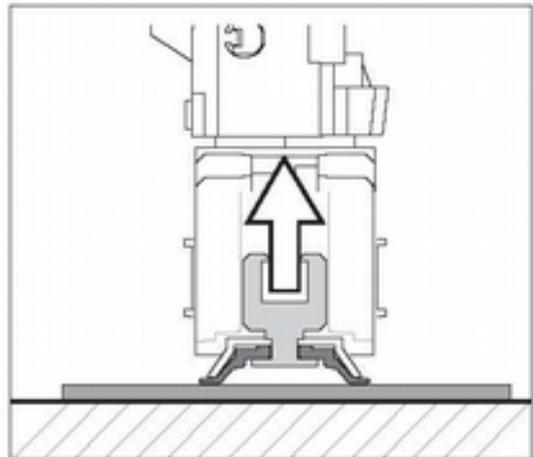
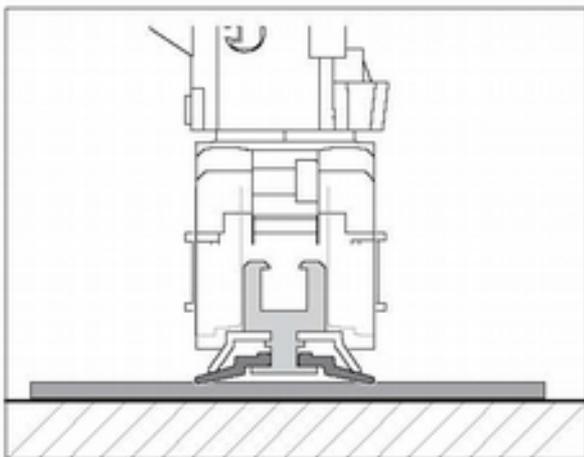
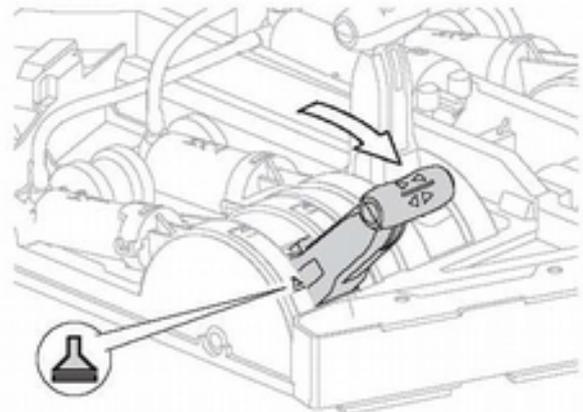
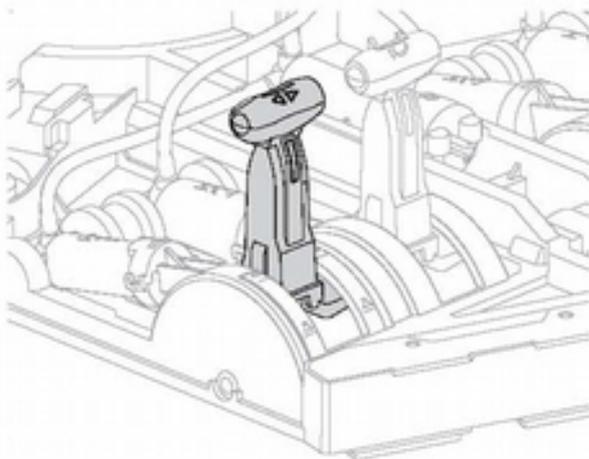
4 Hacer funcionar la palanca control de 2-6 (consultar la página 77), y tiene ventosa



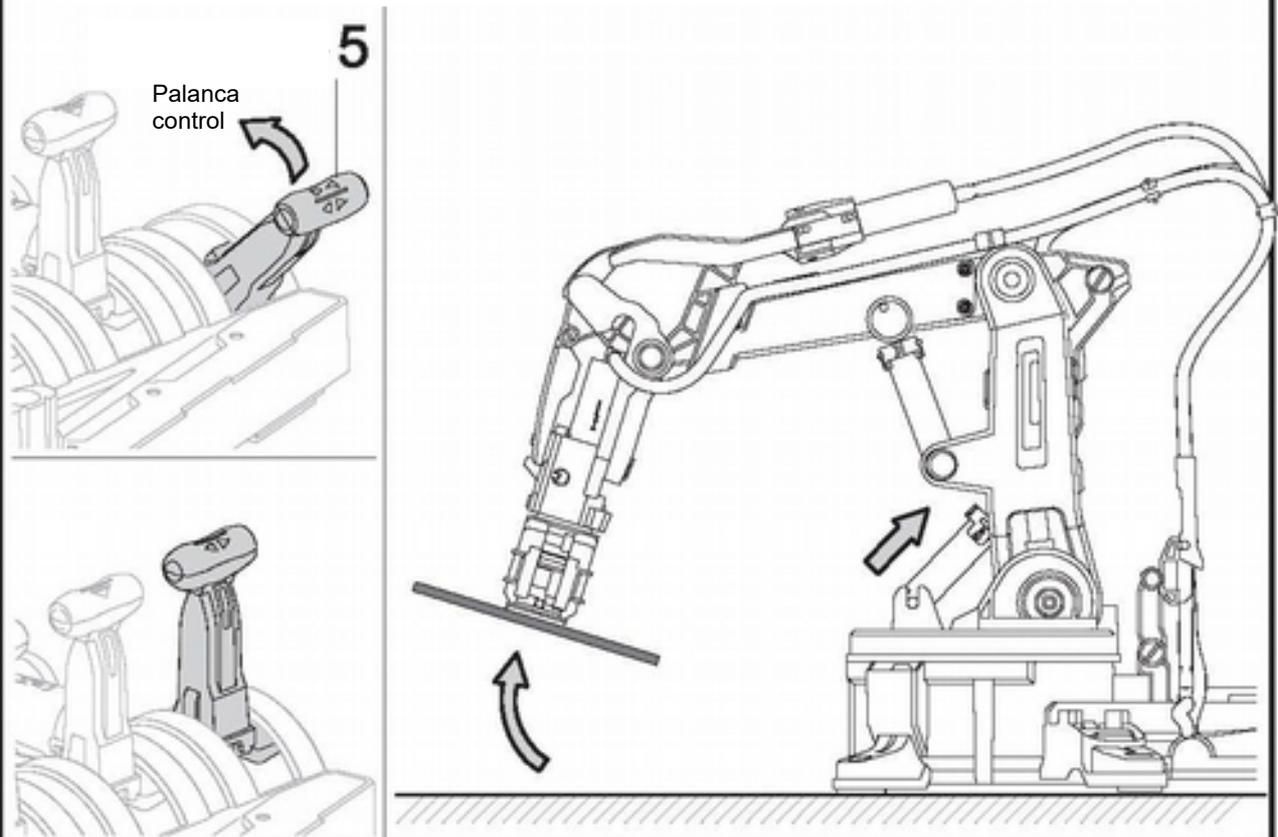
! Dirigir la muñeca al objeto recto



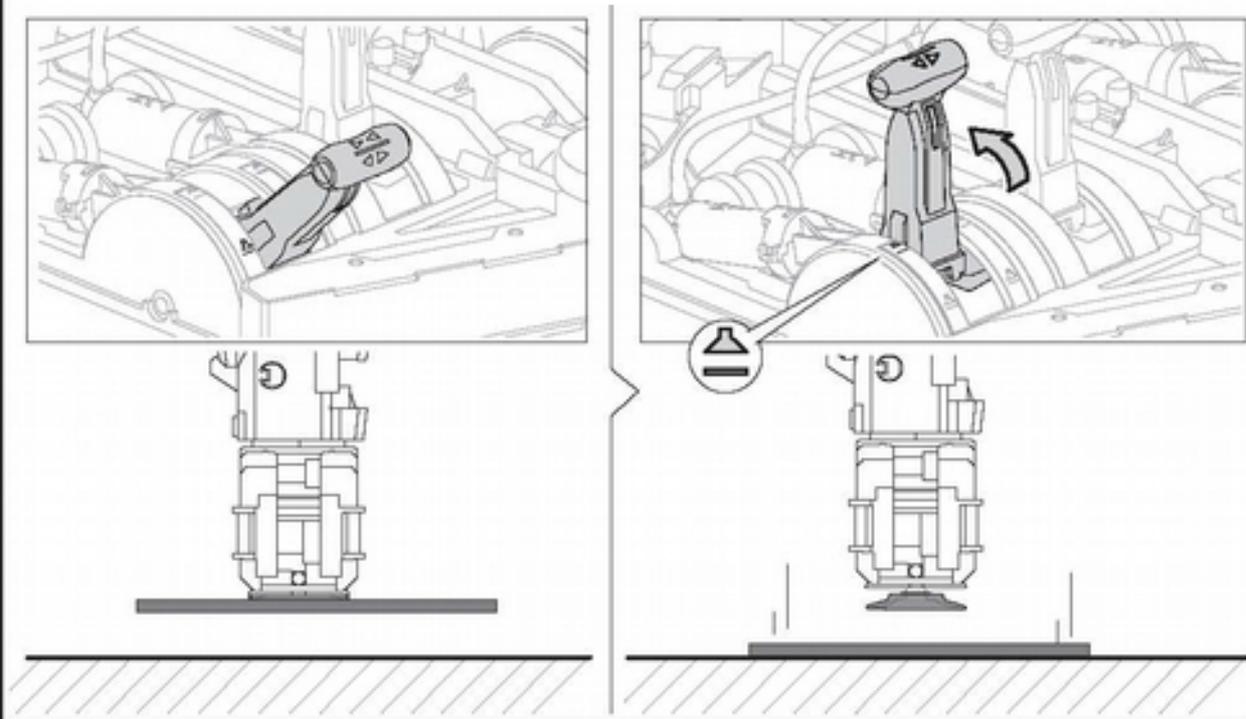
5 Tirar de la palanca de control 1" hacia atrás como abajo



6 Empuje la palanca de control 5, hacia adelante para levantar el objeto

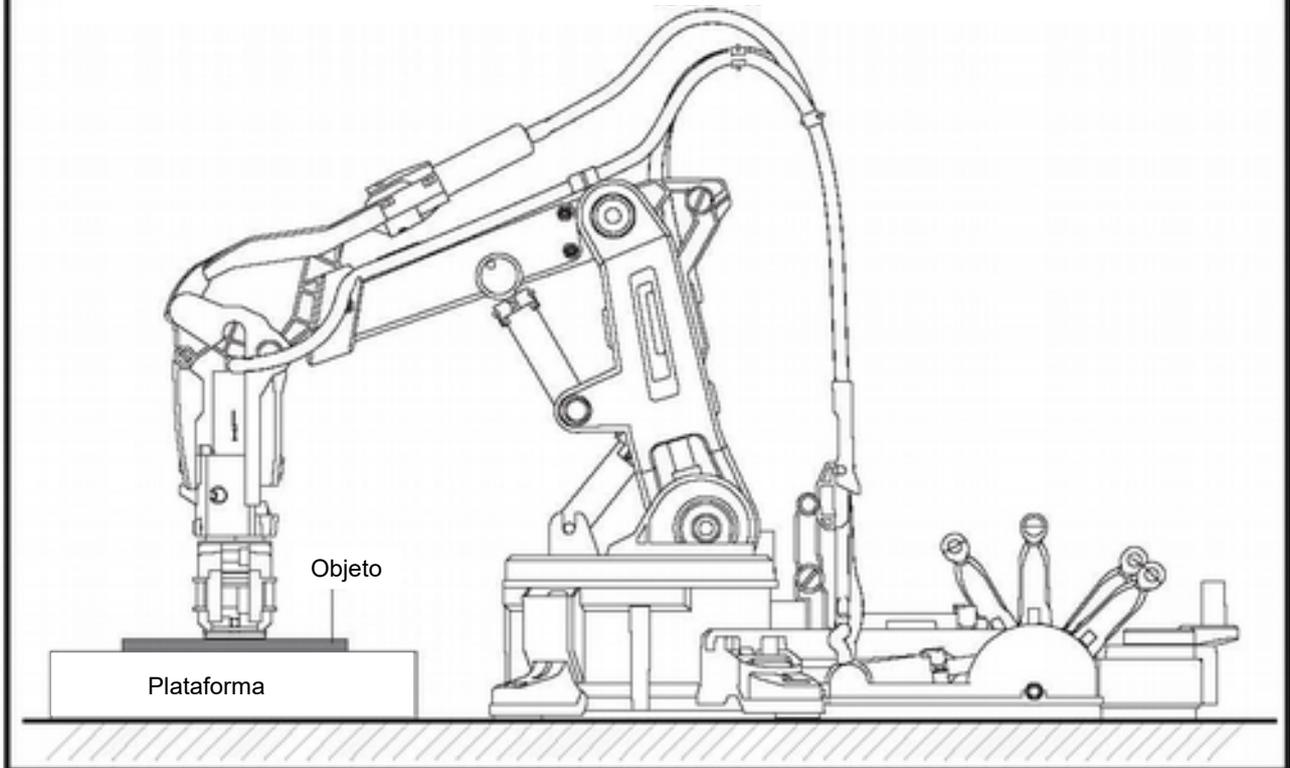


7 La palanca de control 1, en el centro para dejar objeto



8

Consejo: Ponga el objeto en una plataforma ligeramente más alta / y más suave, puede ayudar a practicar el "modo de succión" con mayor acierto



NOTA : Este kit esta recomendado para niños a partir de 12 años, siempre acompañado por un adulto



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