

## Capítulo 17 Haz tu pedido

¿Sueles leer los manuales de usuario o ver los vídeos tutoriales?

Acabas de recibir un aparato nuevo y necesitas montarlo.

¿Son importantes las instrucciones paso a paso? ¿Prefieres los vídeos o manuales?

Construye este robot de "Control de calidad"

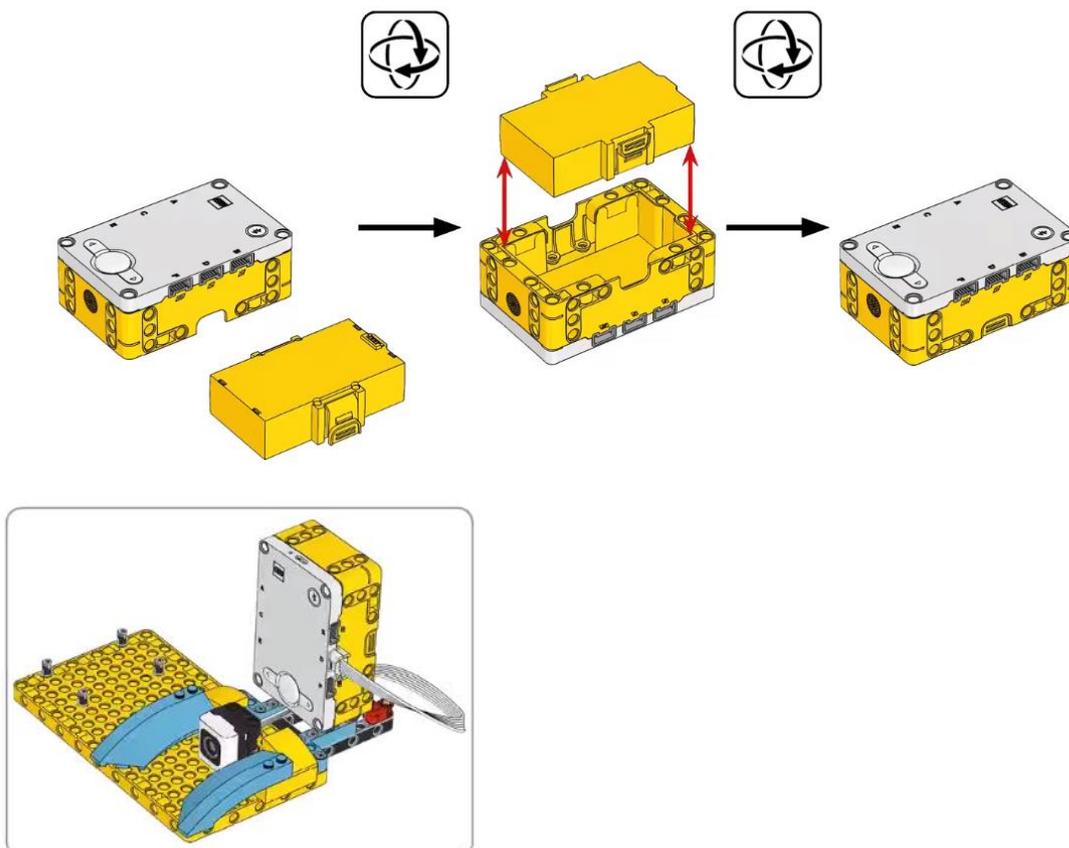
Este robot es tu nuevo mejor amigo.

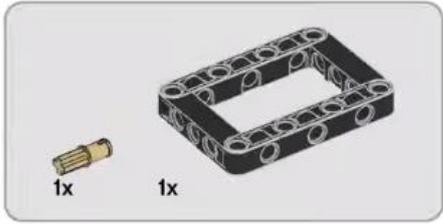
Te va a ayudar a comprobar la calidad de tus ideas... vas a poner en marcha un abrir y cerrar de ojos!

Consta de dos partes



Detector de ideas

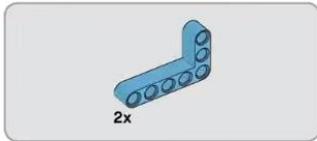
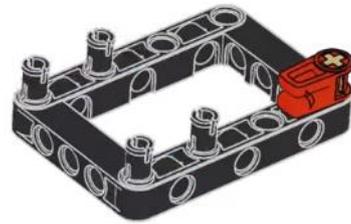




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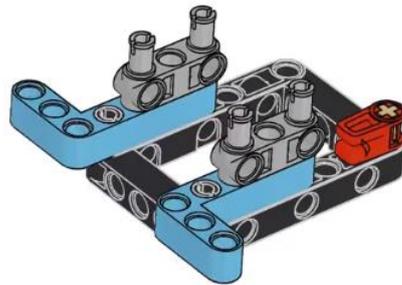
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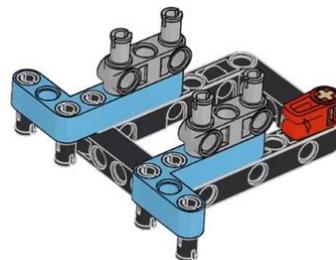
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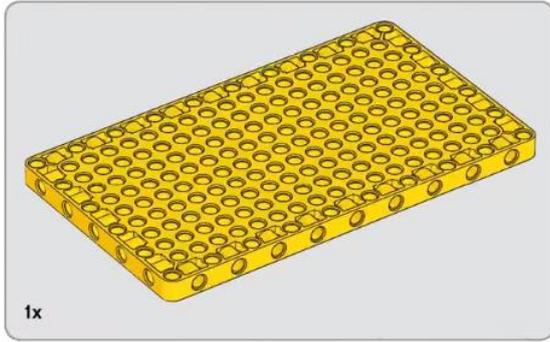


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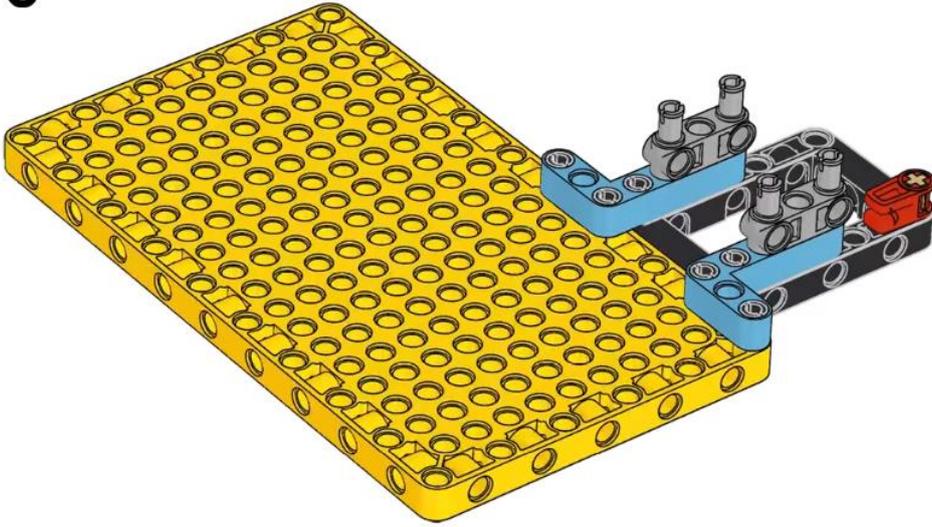


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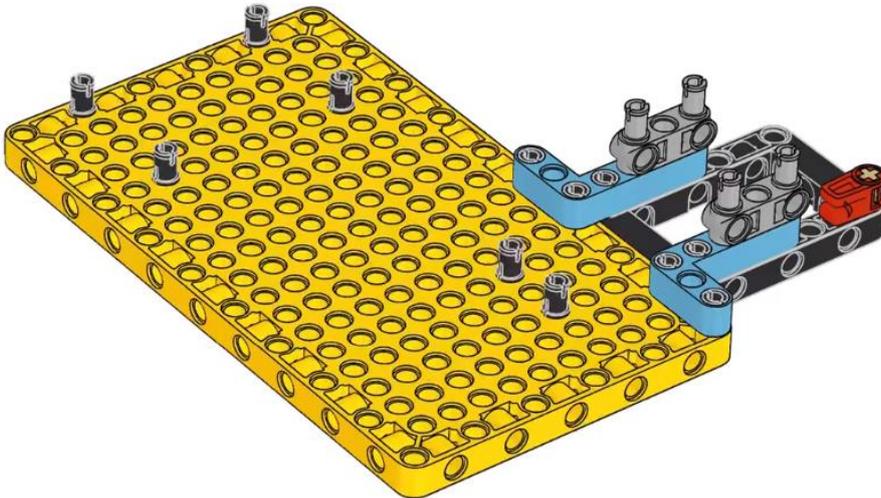


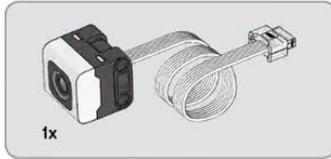


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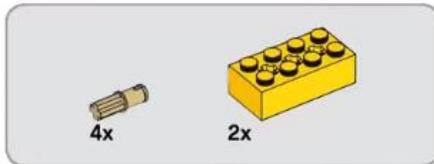
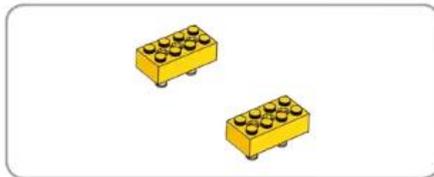
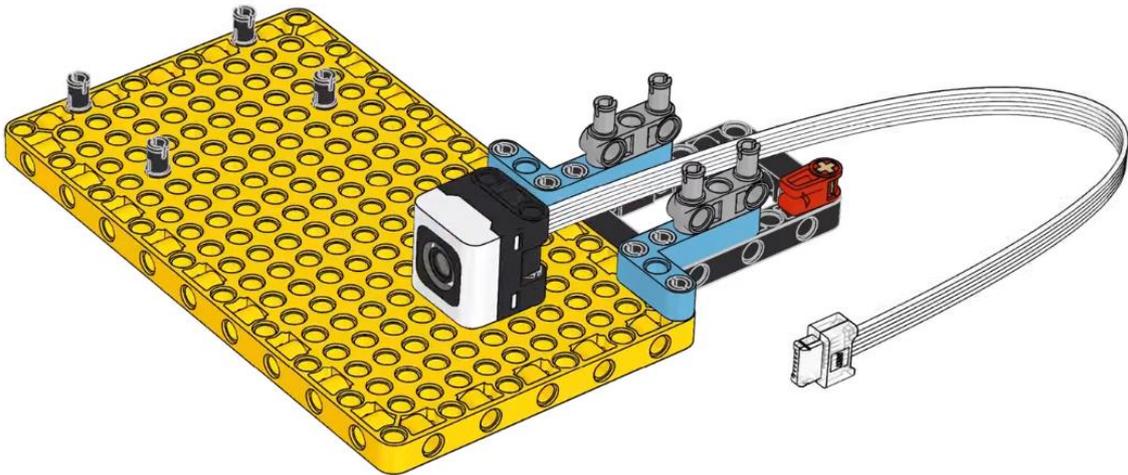


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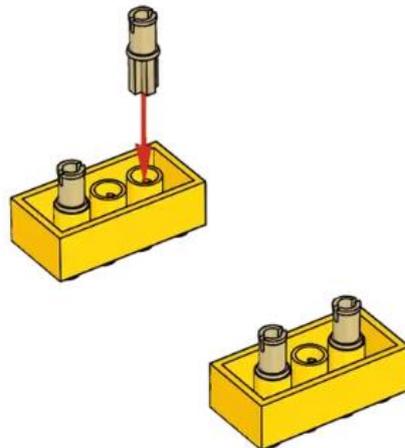




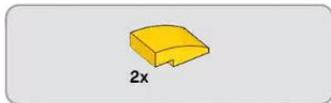
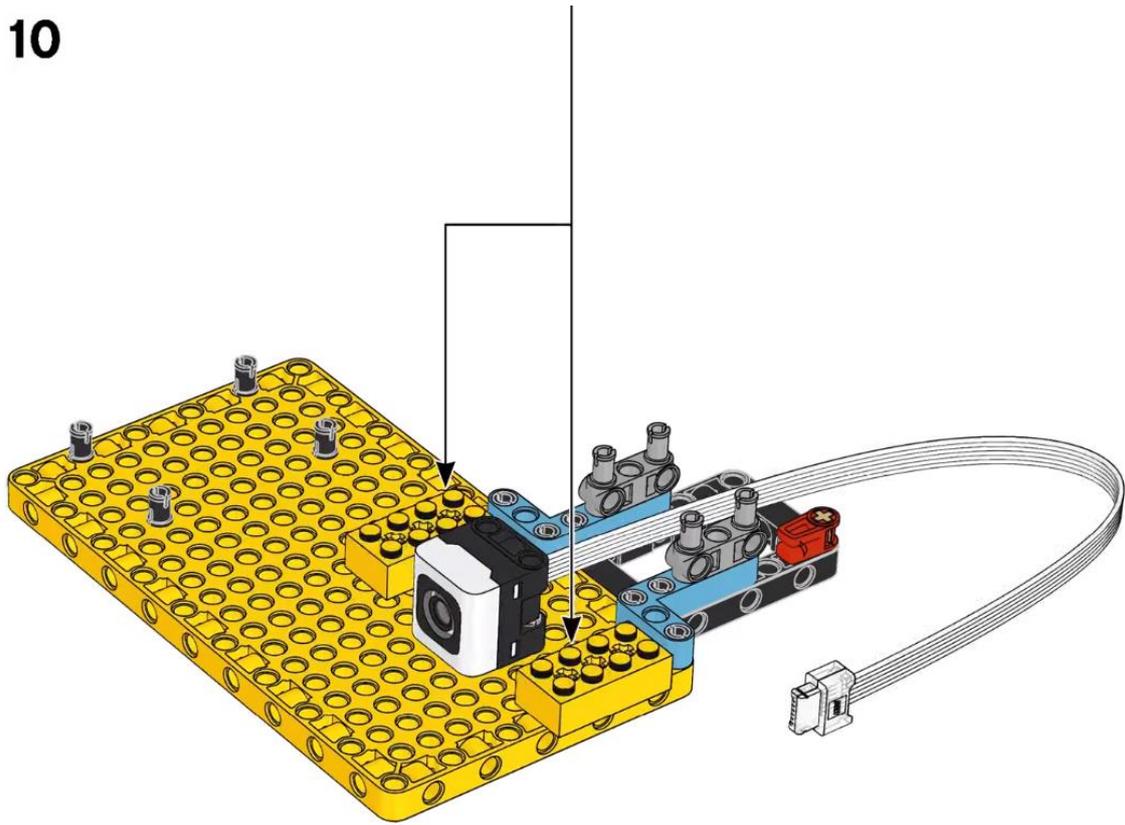
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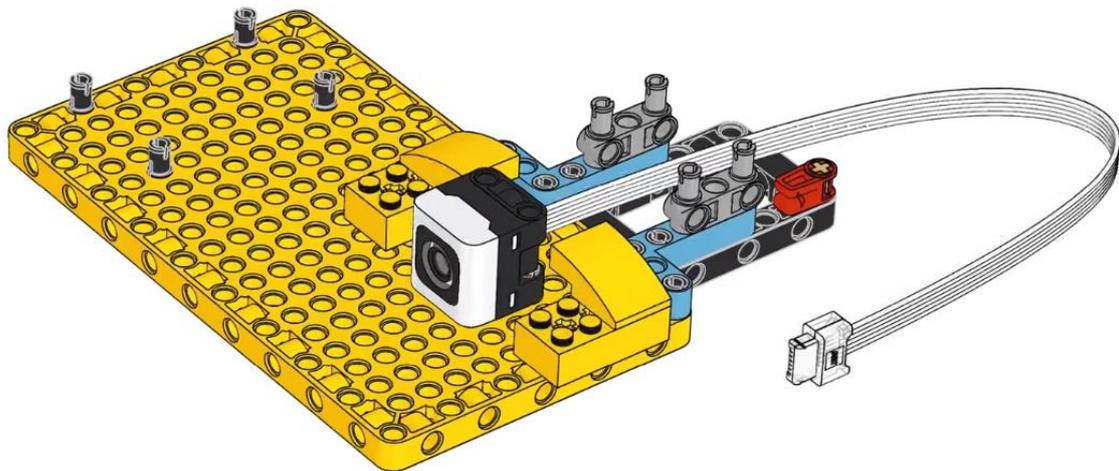
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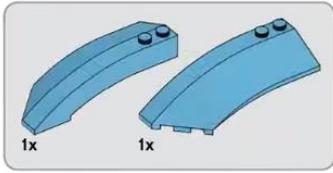


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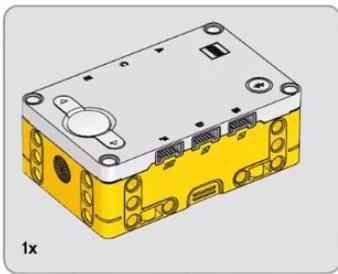
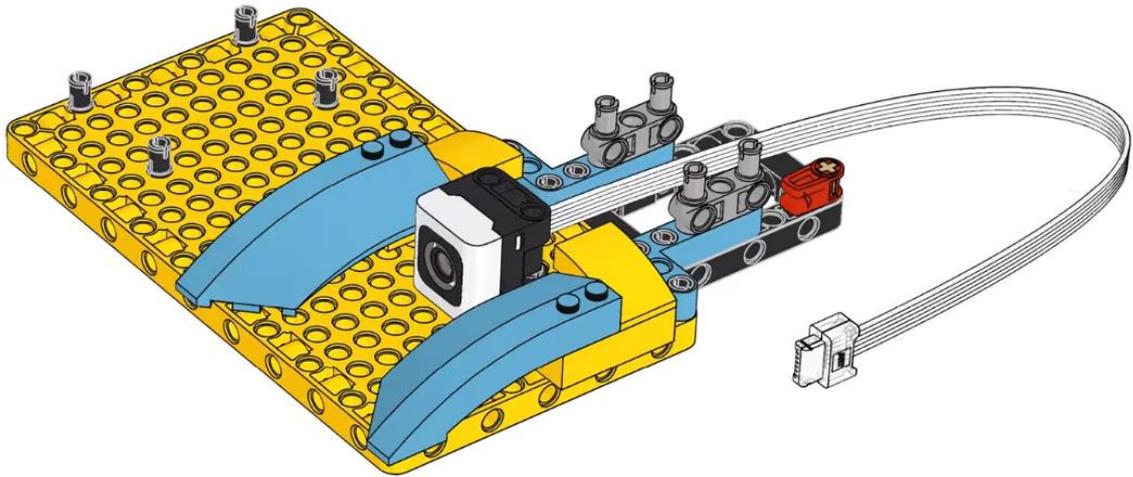


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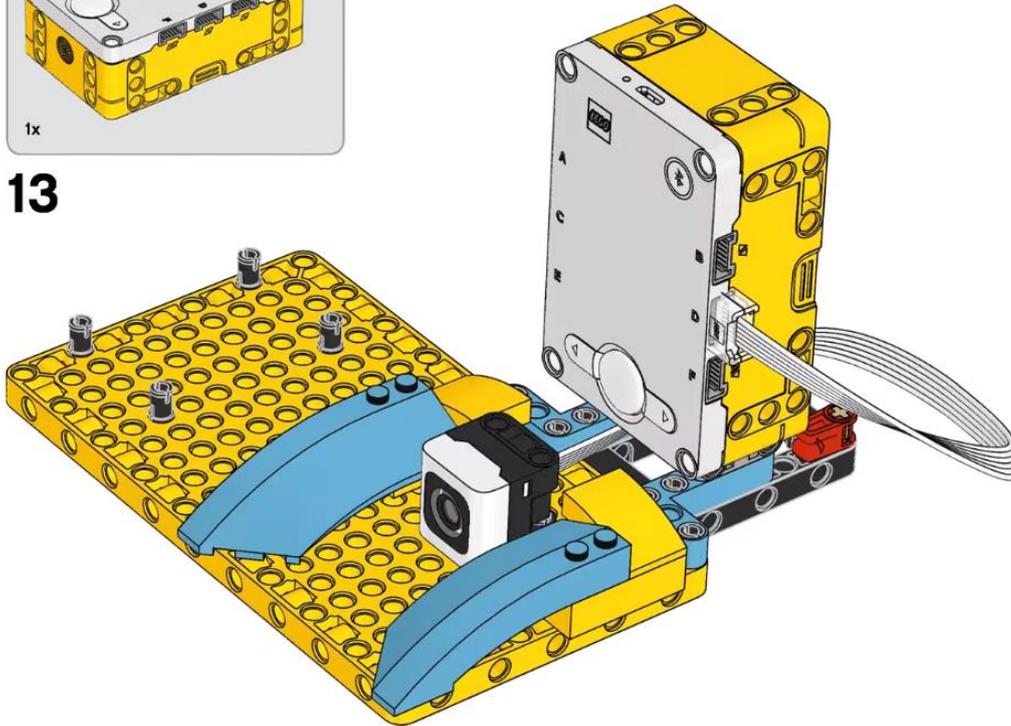




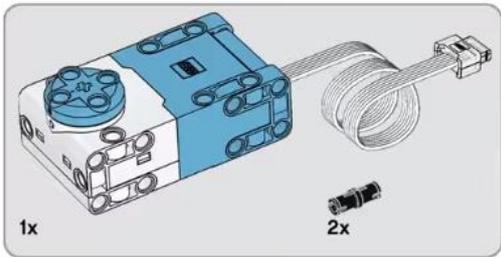
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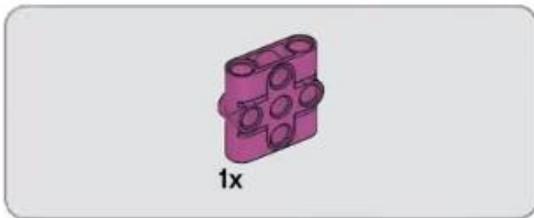
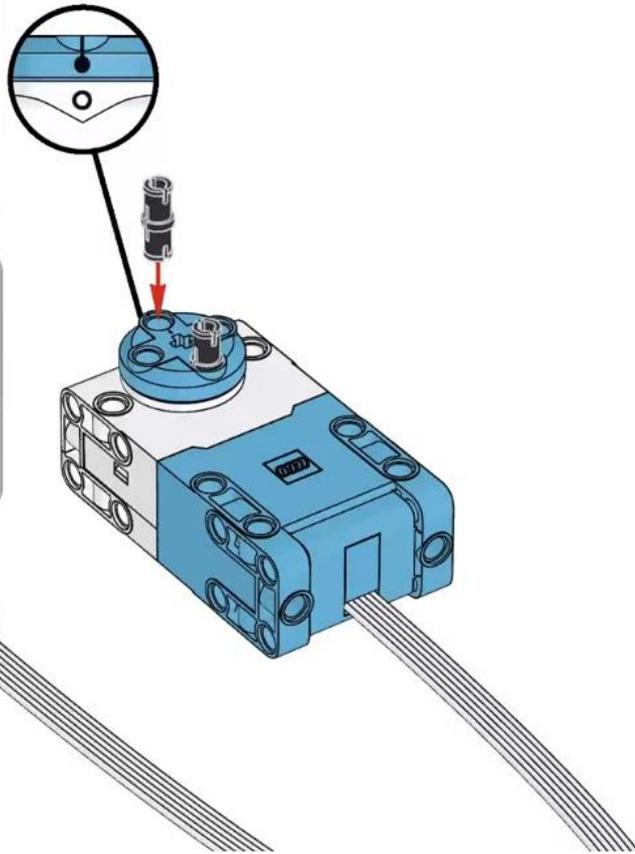
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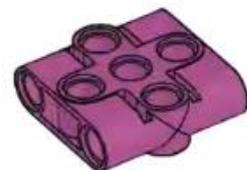
# Cabezal del robot



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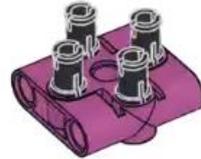


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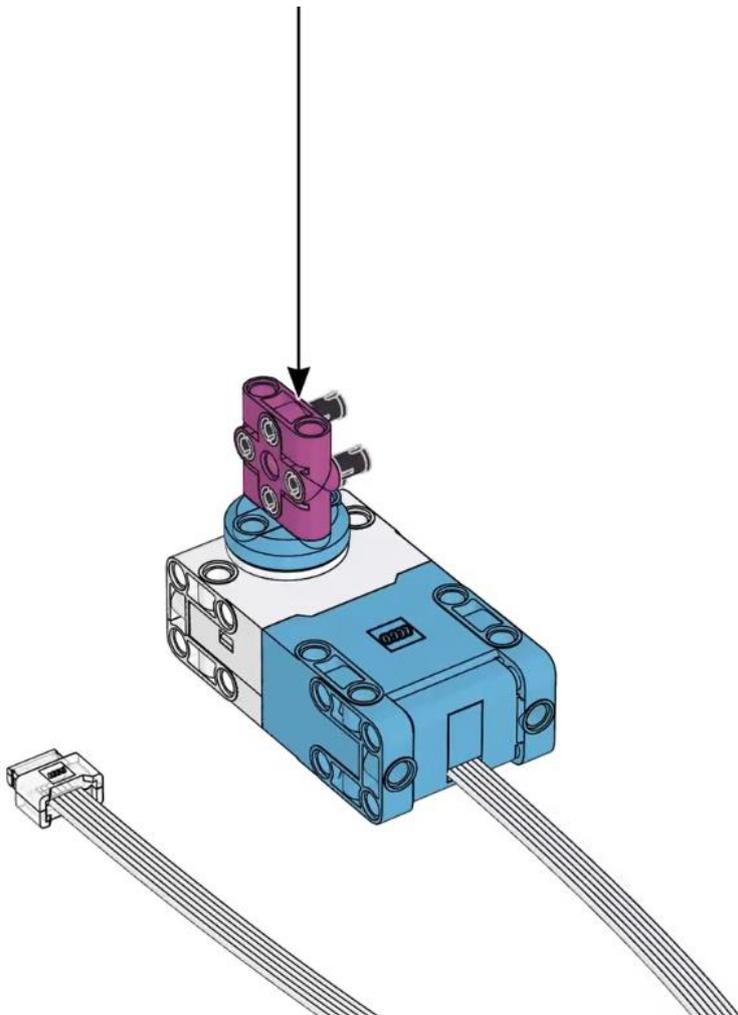




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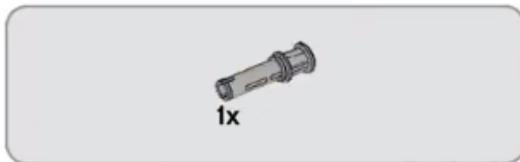


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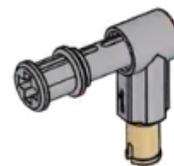




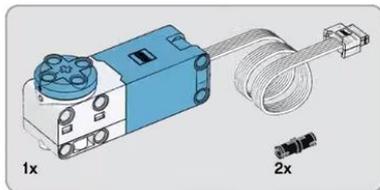
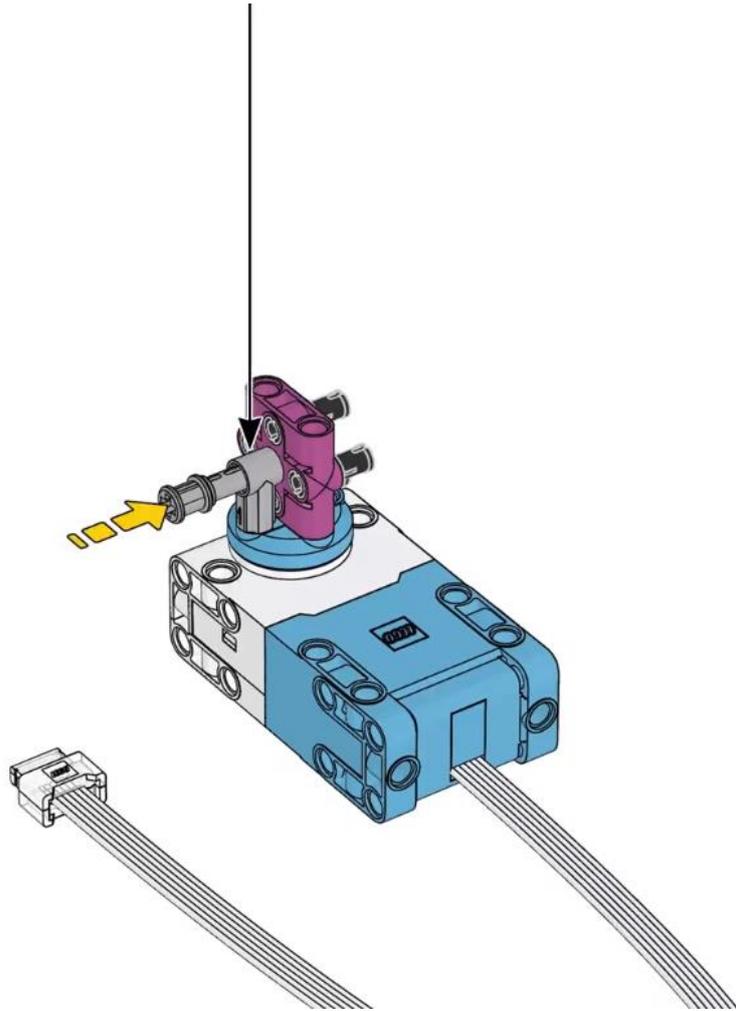
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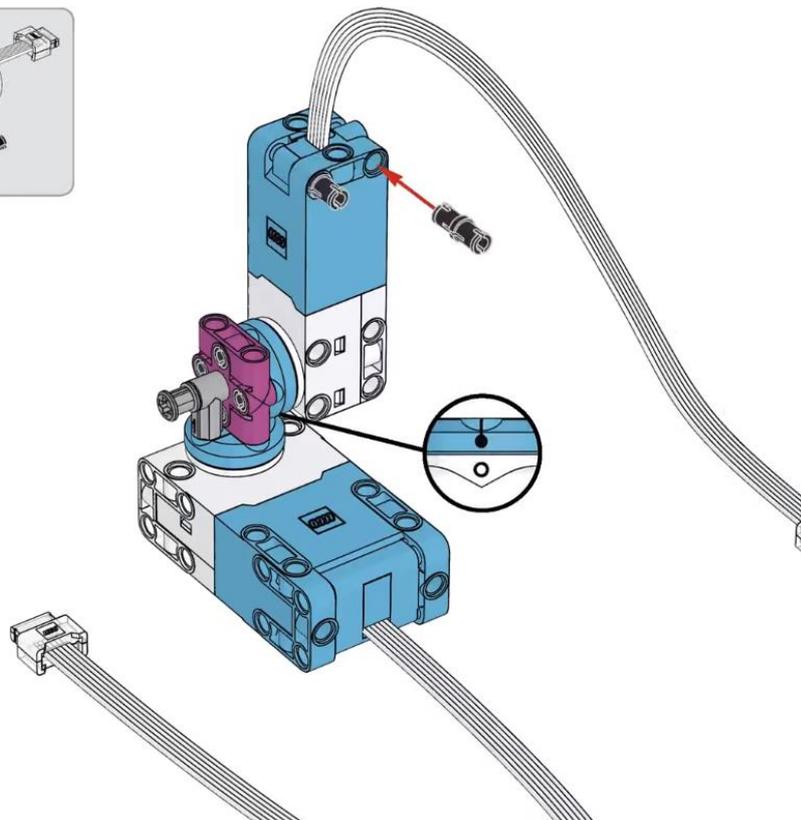
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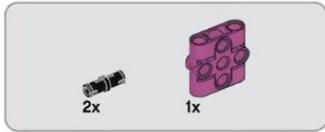


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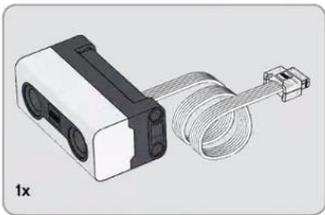
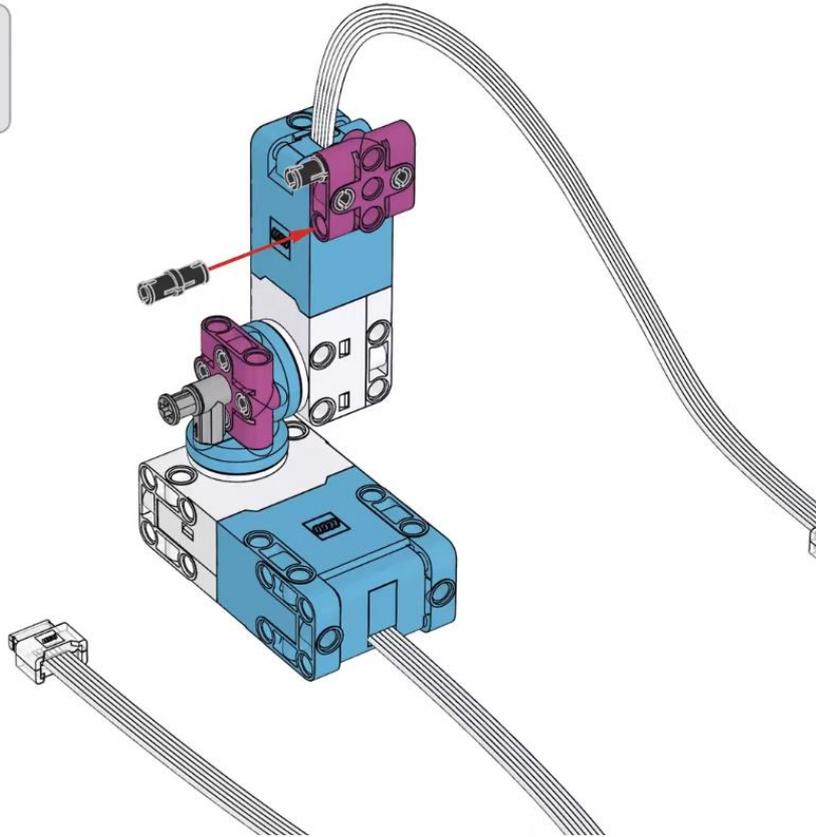


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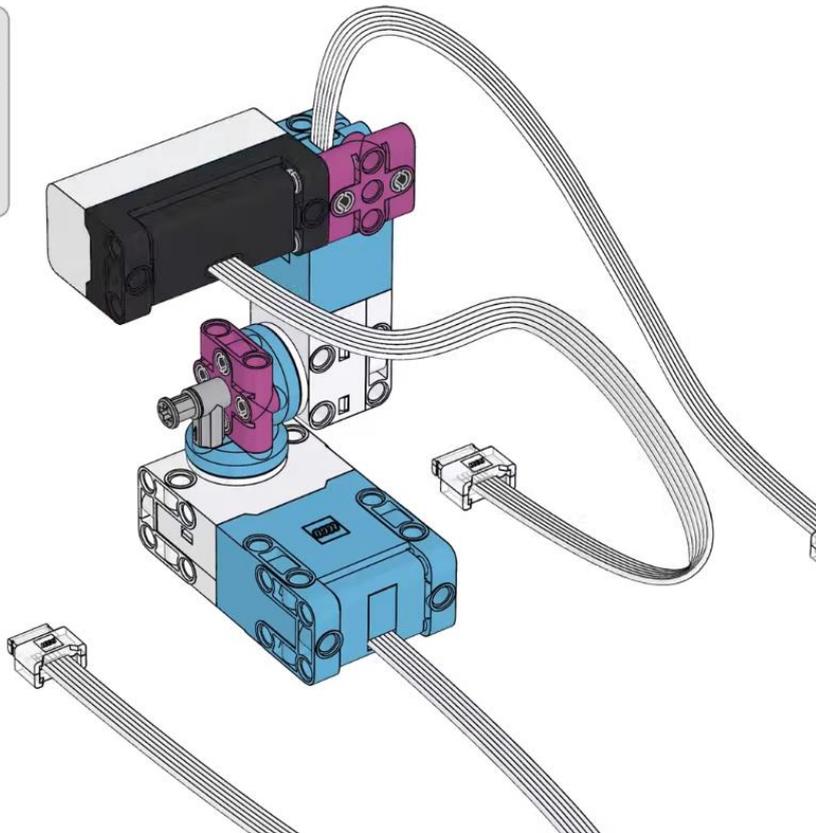




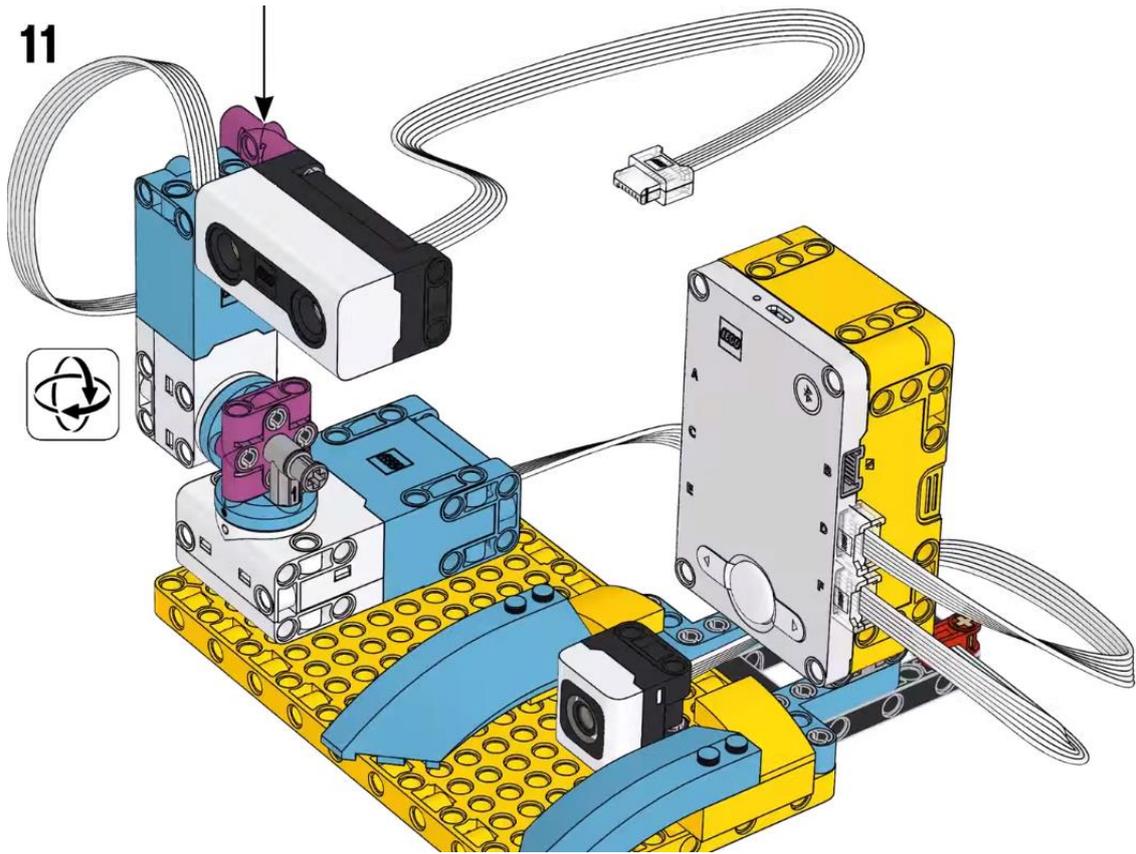
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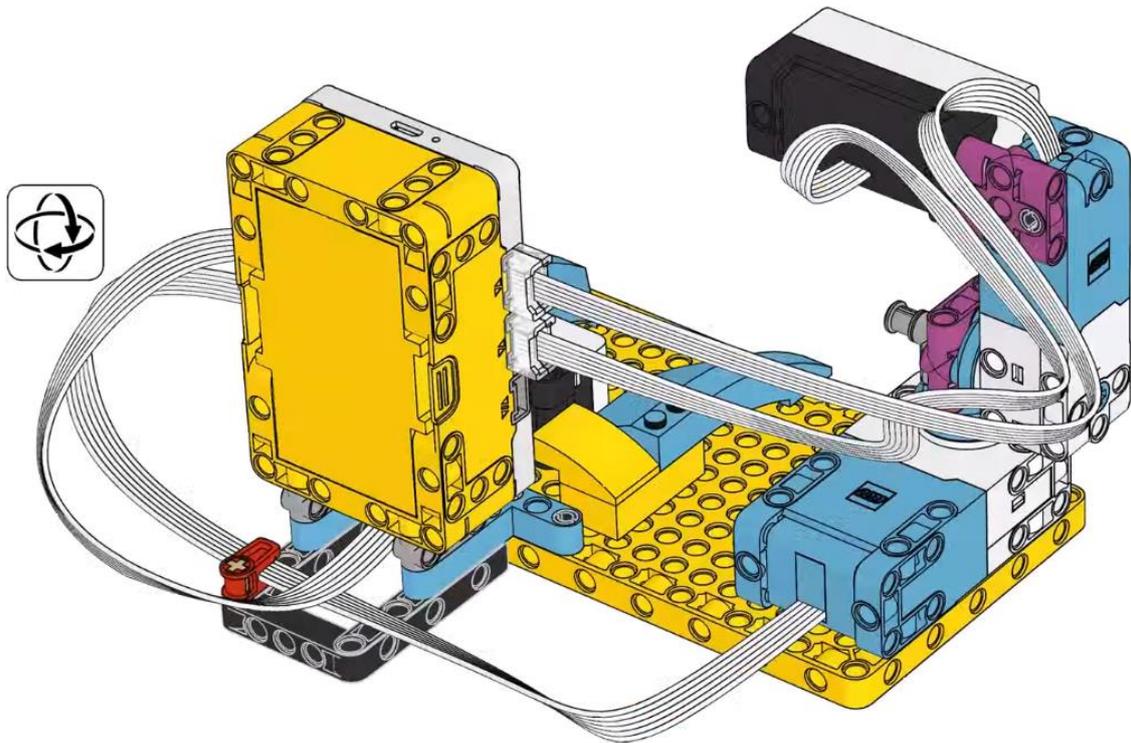
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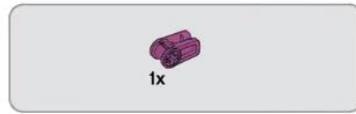


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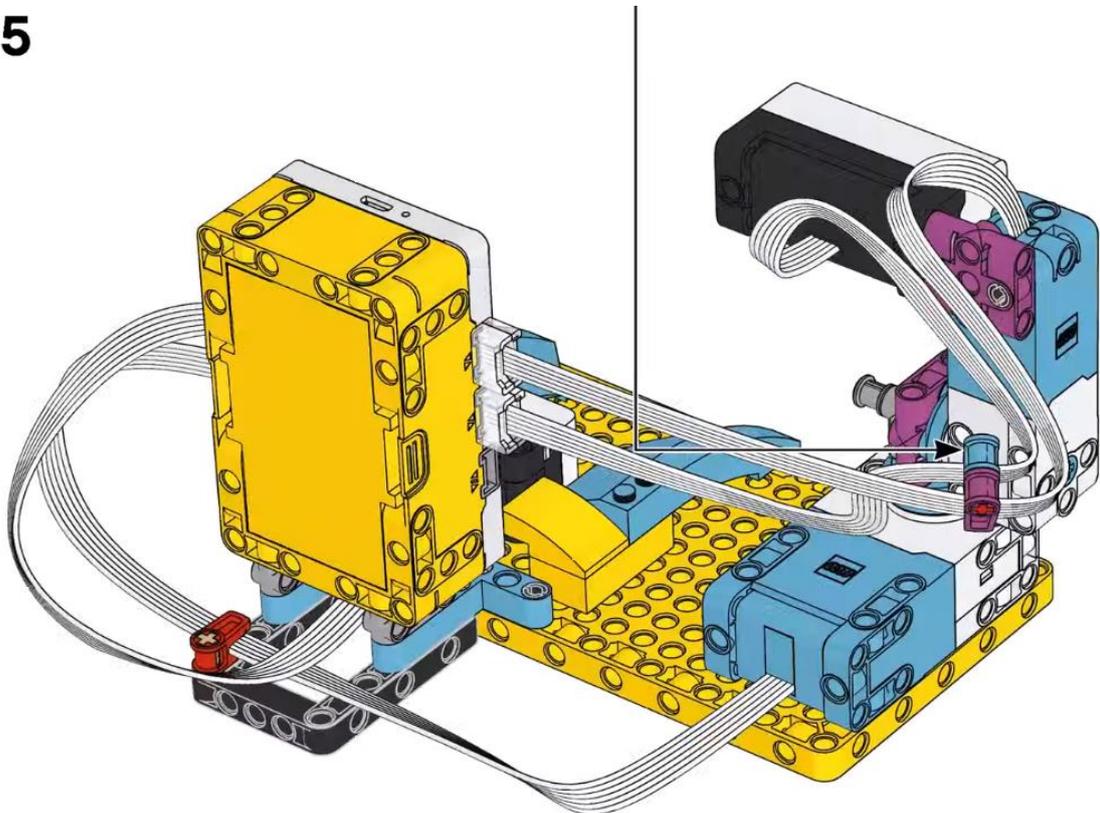
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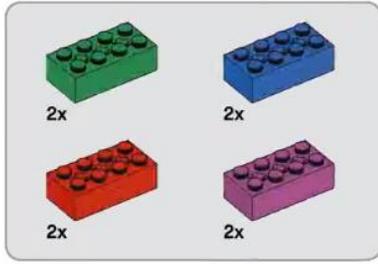


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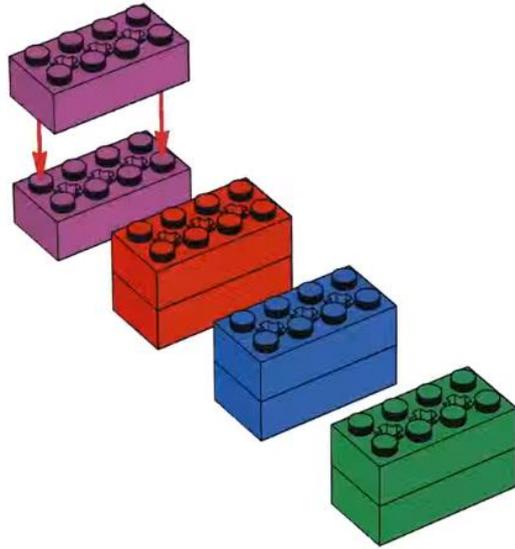


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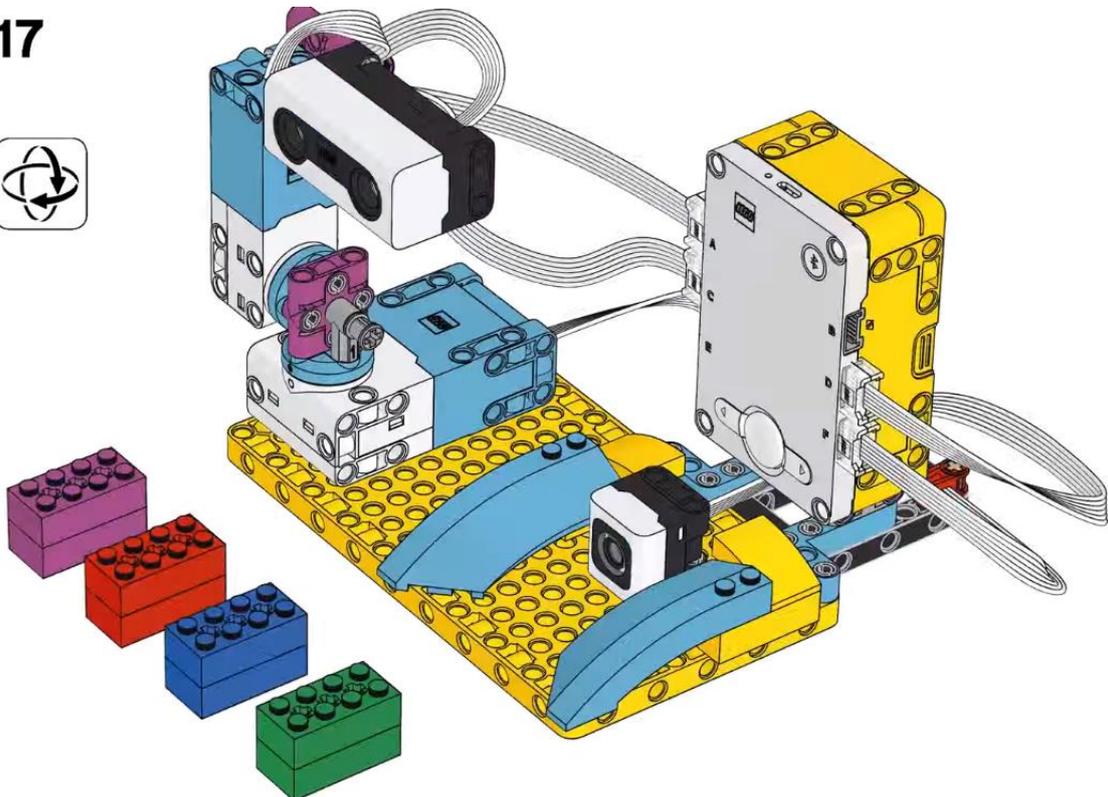


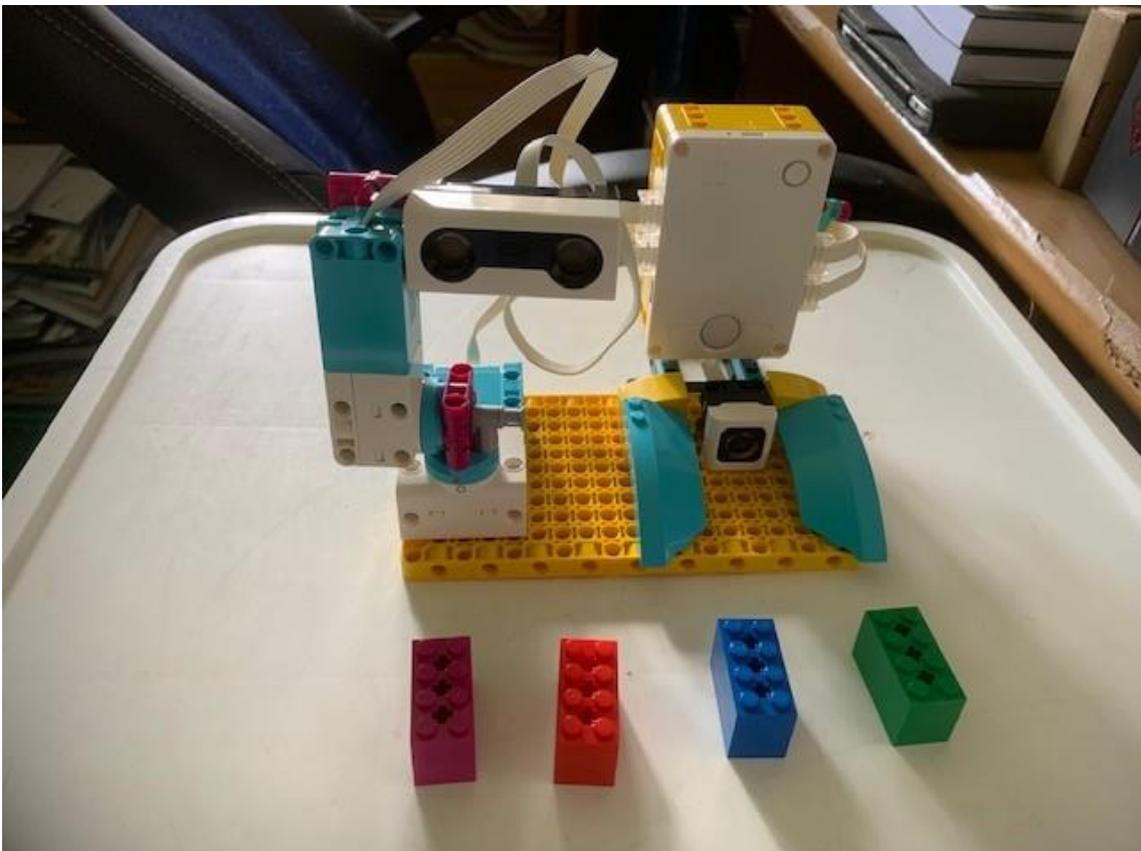
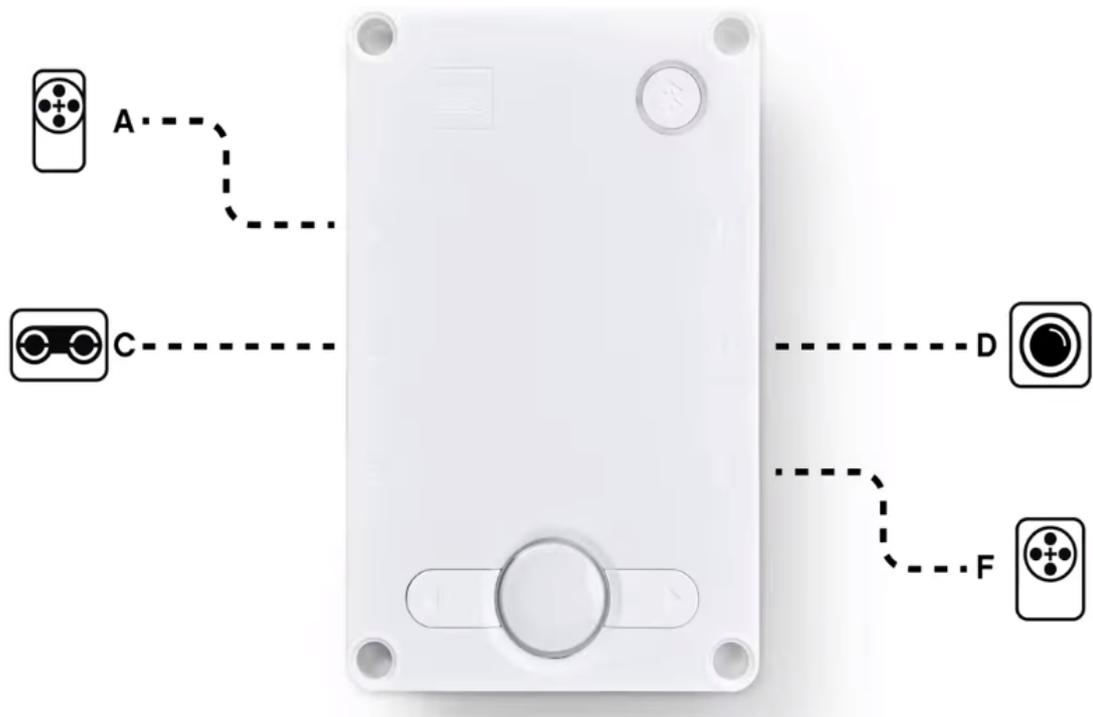


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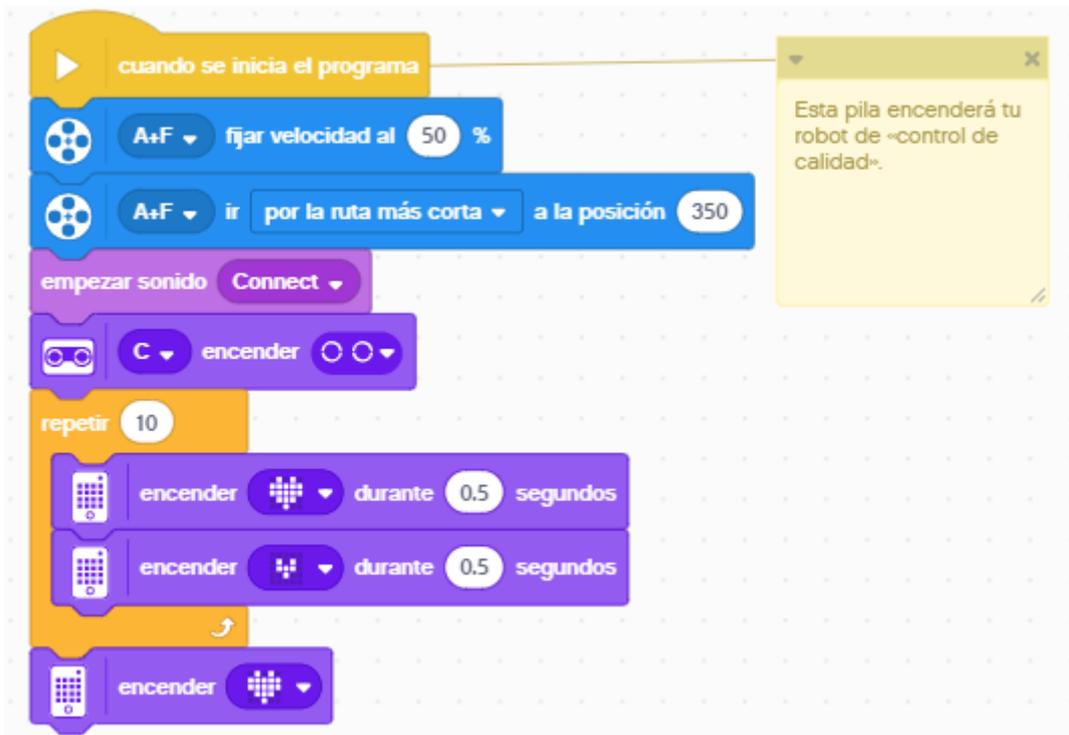


17





## Codificación



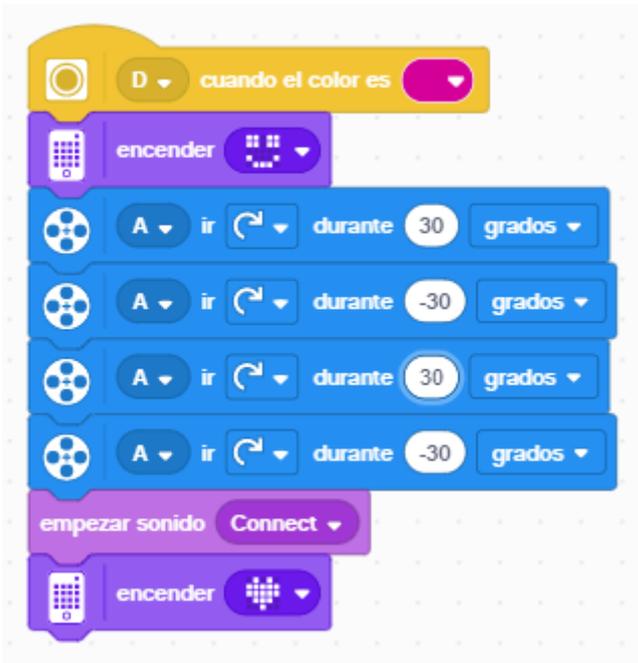
¡En marcha!

Ejecuta este programa y mira cómo se activa el robot.

Crea una pila de programación desde este pseudocódigo.

Programa estas para el color violeta.

- Ilumina una carita
- Cuando veo el color violeta:
- Iluminar un emoticono.
- Gira motor A 30 grados.
- Gira motor A -30 grados.
- Gira motor A 30 grados.
- Gira motor A -30 grados.
- Reproducir un sonido.
- Iluminar un corazón.



Crea un seudocódigo para los demás movimientos.



Ahora, mira este vídeo. Descompón todas las acciones que veas y escribe un seudocódigo para los movimientos.

Crea pilas de programación que sigan tu pseudocódigo.

Programa estas para el color rojo.

- Ilumina una carita
- Cuando veo el color violeta:
- Iluminar un emoticono.
- Gira motor A 30 grados.
- Gira motor A -20 grados.
- Gira motor A 20 grados.
- Gira motor A -30 grados.
- Reproducir un sonido.
- Iluminar un corazón.

Programa estas para el color azul.

- Ilumina una carita
- Cuando veo el color violeta:
- Iluminar un emoticono.
- Gira motor A -30 grados.
- Gira motor A 60 grados.
- Gira motor A -600 grados.
- Gira motor A 30 grados.
- Reproducir un sonido.
- Iluminar un corazón.

Programa estas para el color verde.

- Ilumina una carita
- Cuando veo el color violeta:
- Iluminar un emoticono.
- Bucle de 3
  - Gira motor A 30 grados.
  - Gira motor A -30 grados.
- Bucle de 3
  - Gira motor A 30 grados.
  - Gira motor A -30 grados.
- Reproducir un sonido.
- Iluminar un corazón.

