

5to



GUIAS DE ARMADO

Kit T-BOT

5to

Guía de Armado *Kit* T-BOT

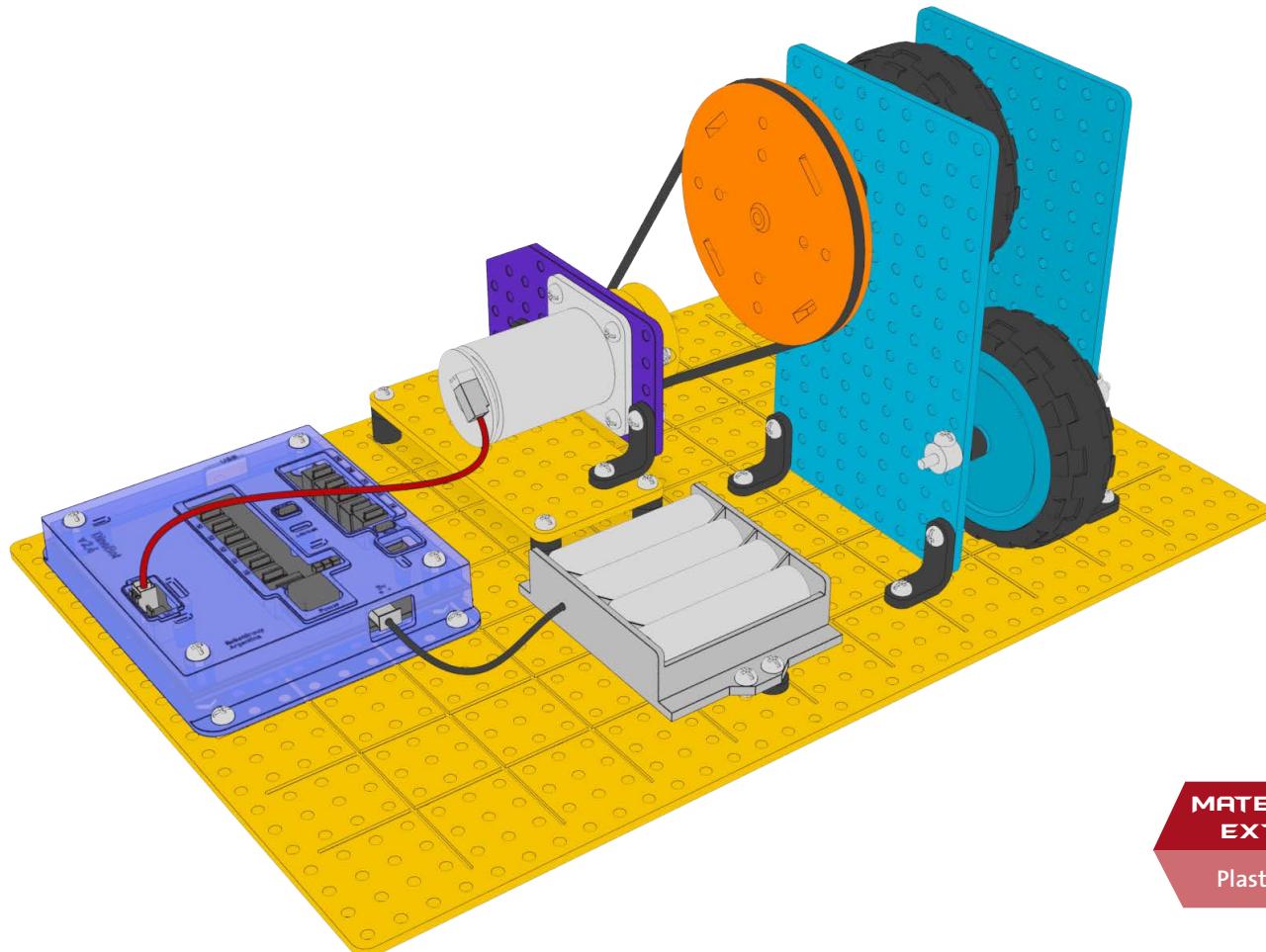


Índice

- Amasadora con motor
- Biela
- Catapulta
- Cinta en ascenso
- Molino
- Pateador con sensor
- Primer robot
- Puente móvil
- Reciclador de latas
- Robot dibujante
- Telégrafo
- Zootropo



Secuencia de armado de una amasadora con motor

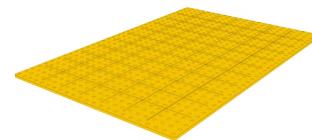


MATERIAL
EXTRA

Plastilina

Paso 1

1 Plancha 35x23



2 Plancha 9x15



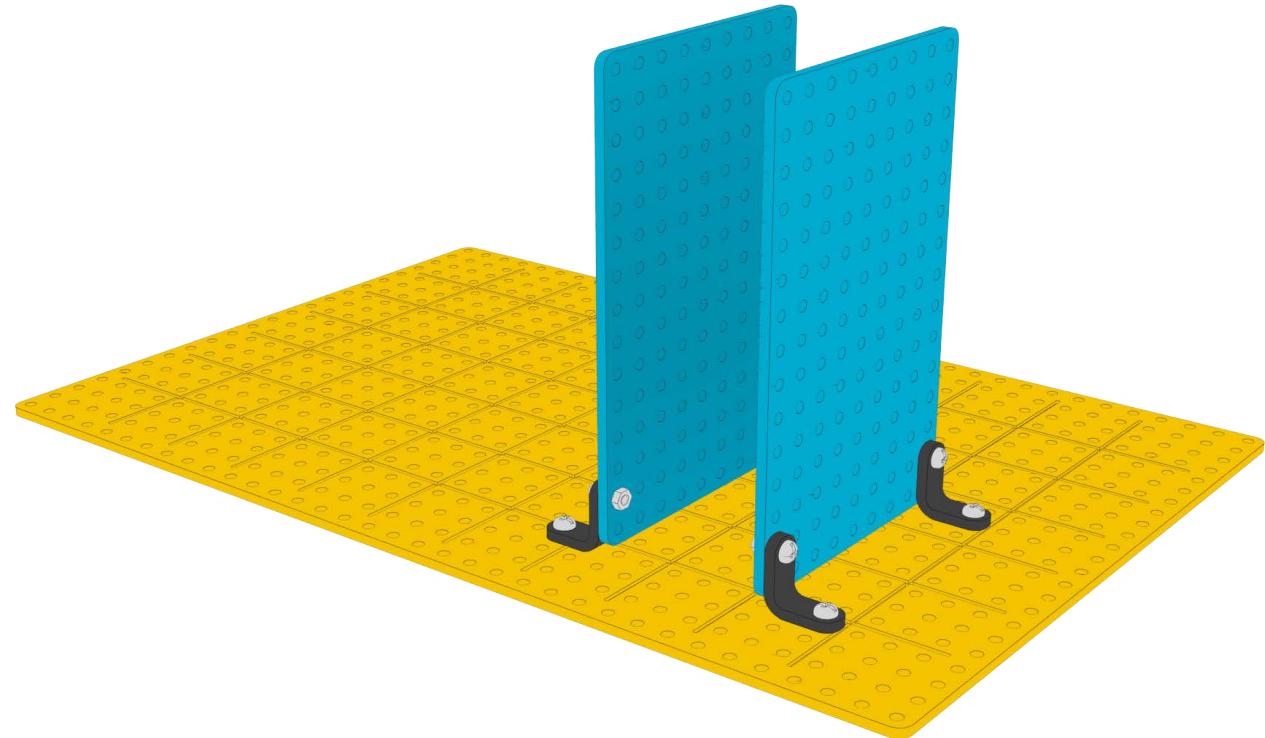
8 Tornillo 8 mm



8 Tuerca hexagonal

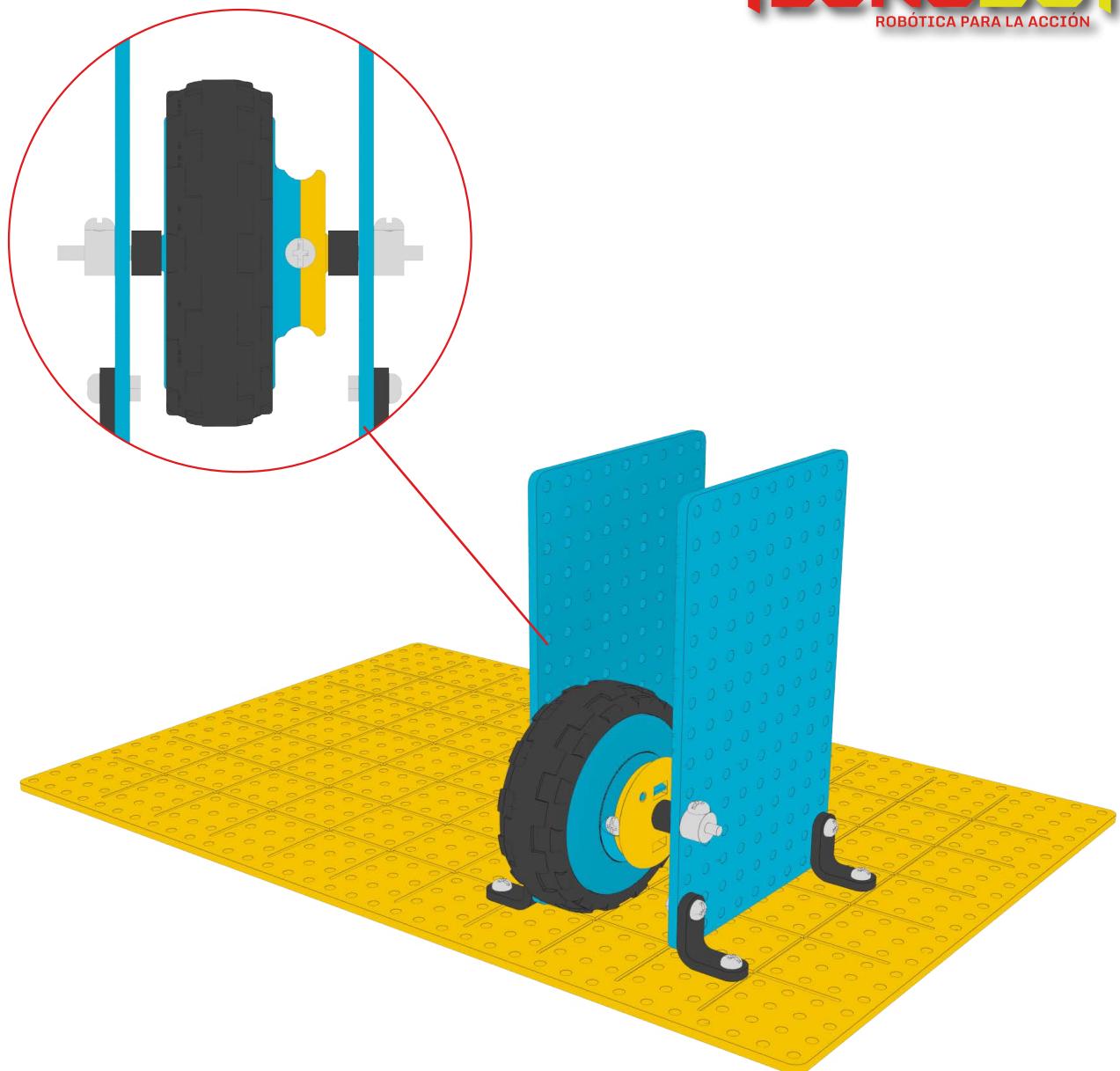


4 L



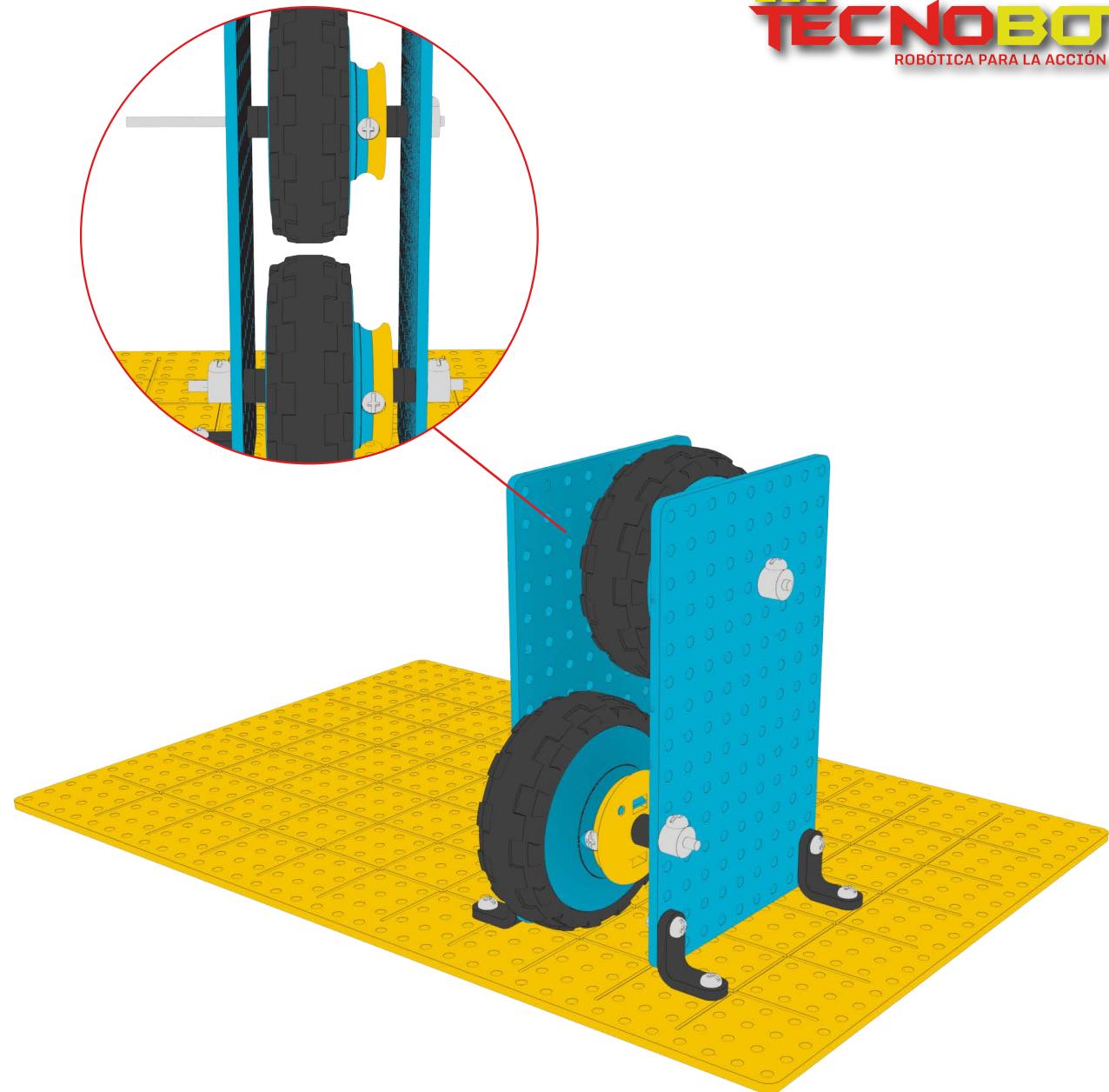
Paso 2

- 1 Eje 5,4
- 2 Ajuste de eje
- 1 Rueda
- 4 Separadores de goma
3mm



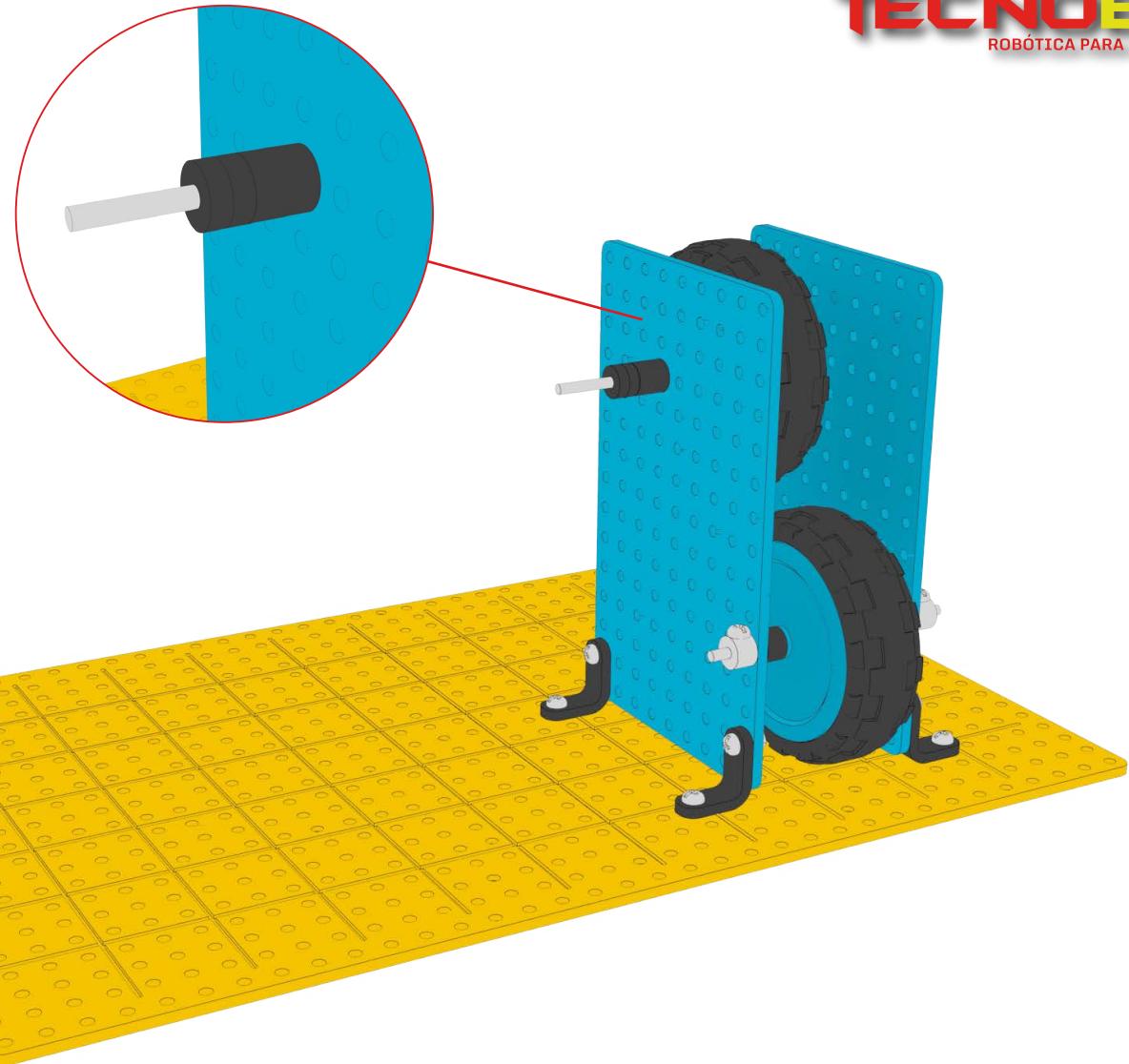
Paso 3

- 1 Eje 7,2
- 1 Rueda
- 1 Ajuste de eje
- 4 Separadores de goma
3mm



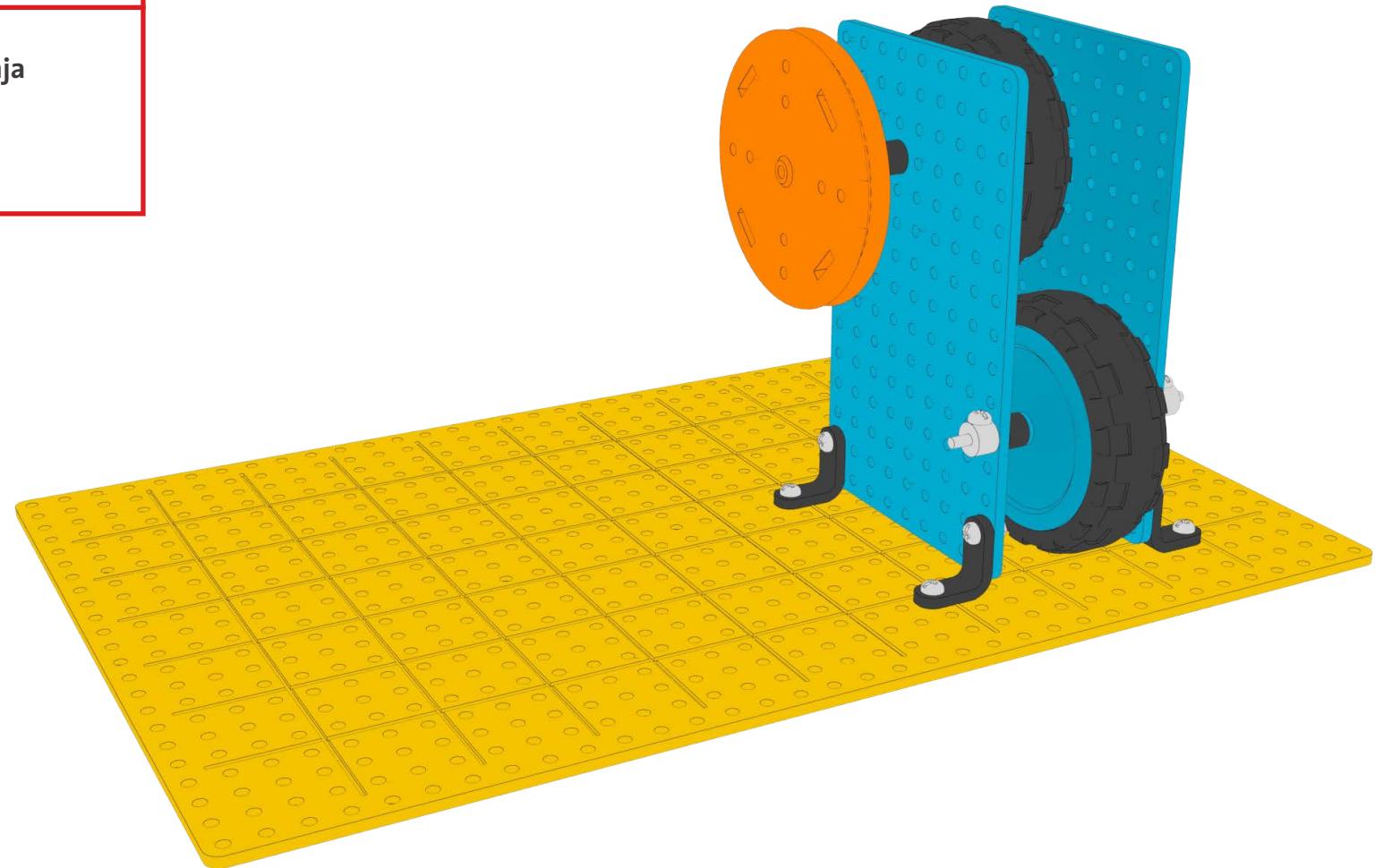
Paso 4

- 2 Separadores de goma
3mm** 
- 1 Separadores de goma
9mm** 



Paso 5

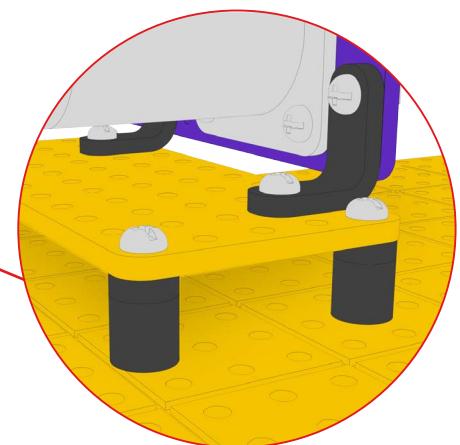
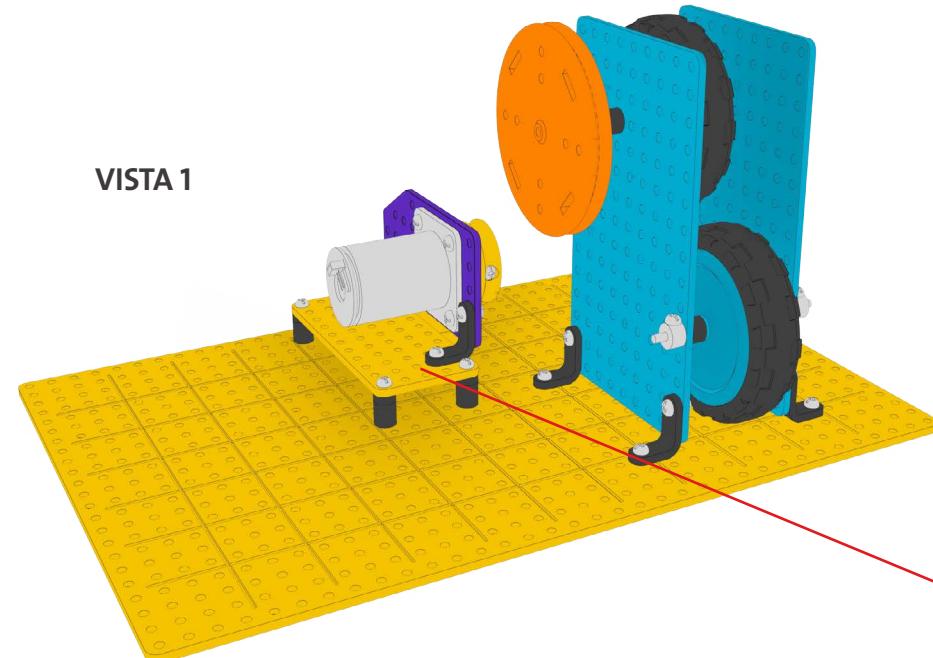
1 Polea grande naranja



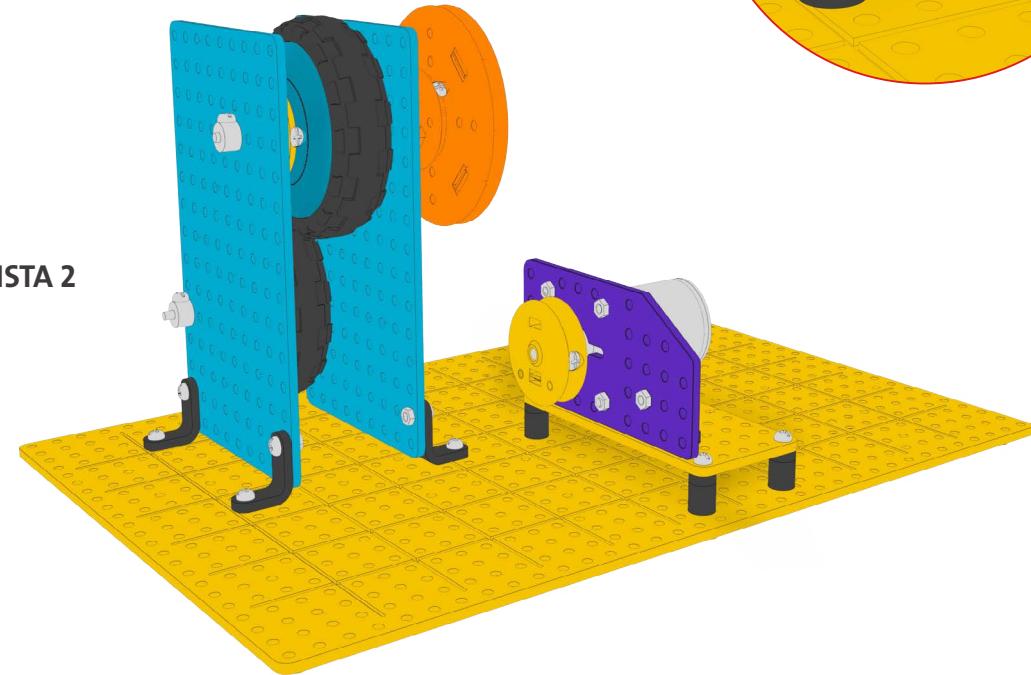
Paso 6

- 1 Soporte de motor 
- 1 Plancha 11x5 
- 4 Separadores de goma 9mm 
- 4 Separadores de goma 3mm 
- 4 Tornillo 20 mm 
- 2 L 
- 8 Tornillo 8 mm 
- 12 Tuerca hexagonal 
- 1 Motor 
- 1 Polea chica amarilla 

VISTA 1

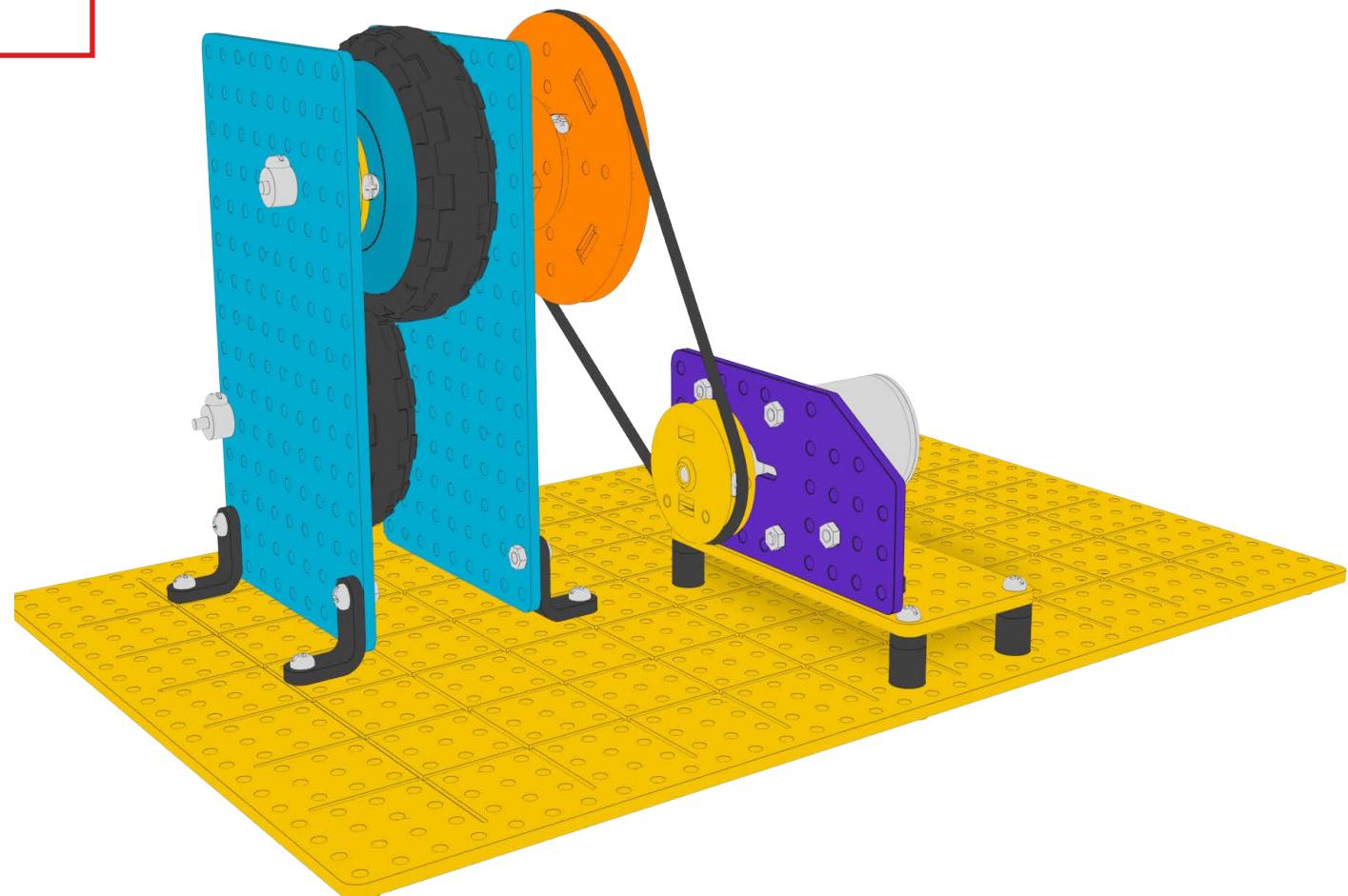


VISTA 2

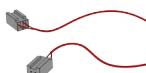


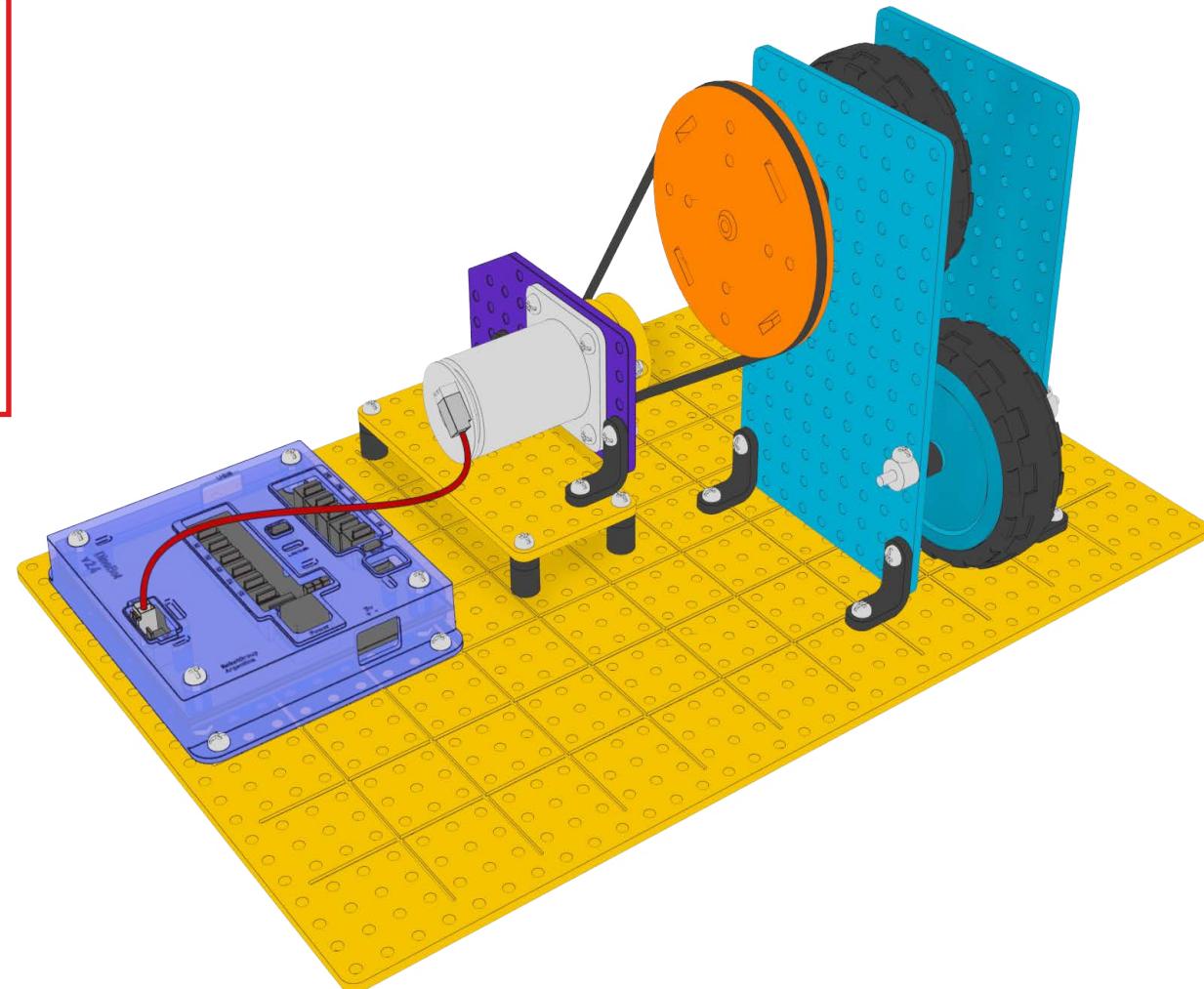
Paso 7

1 O-ring 154



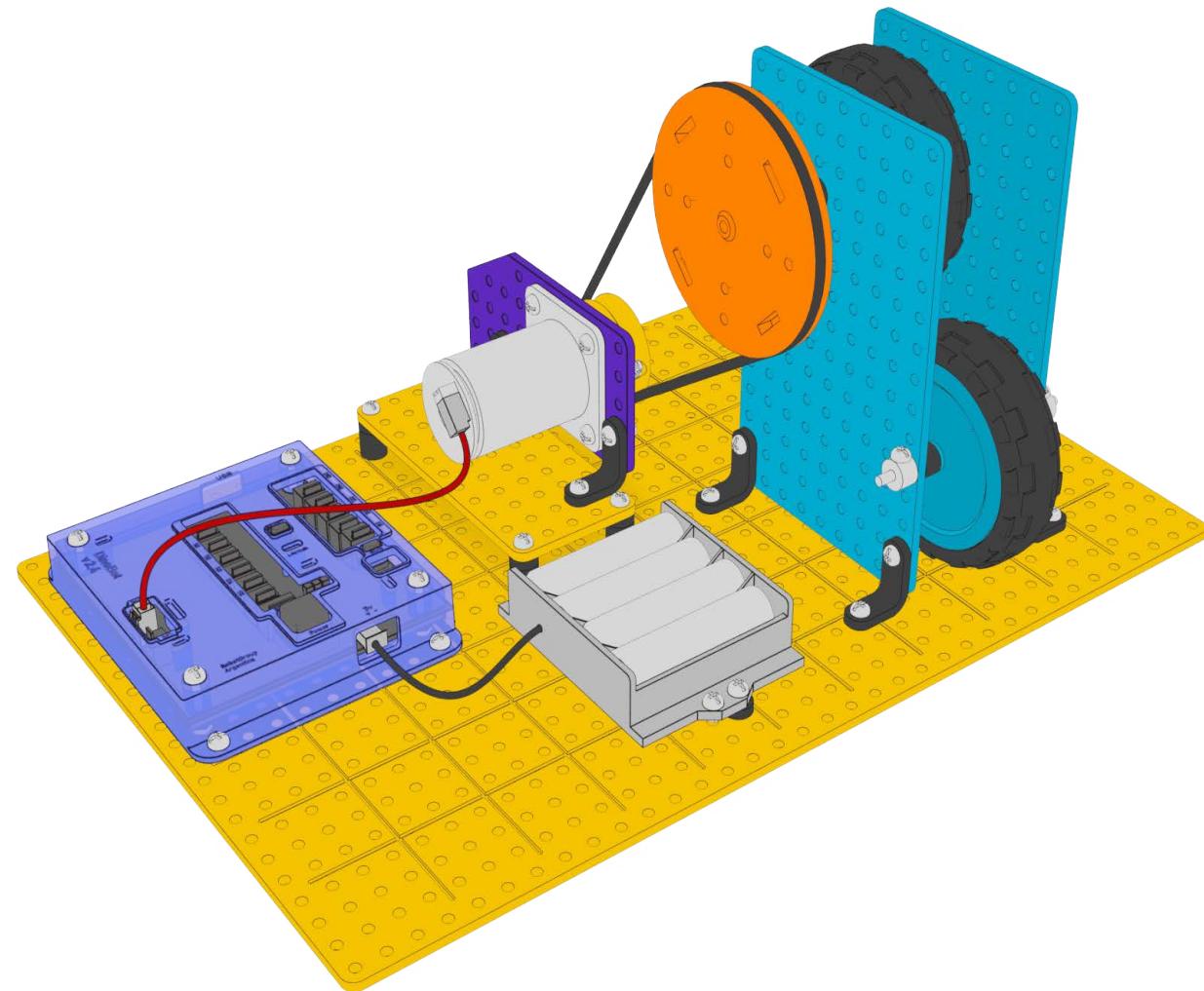
Paso 8

- 1 Placa 
- 1 Cable de motor 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 

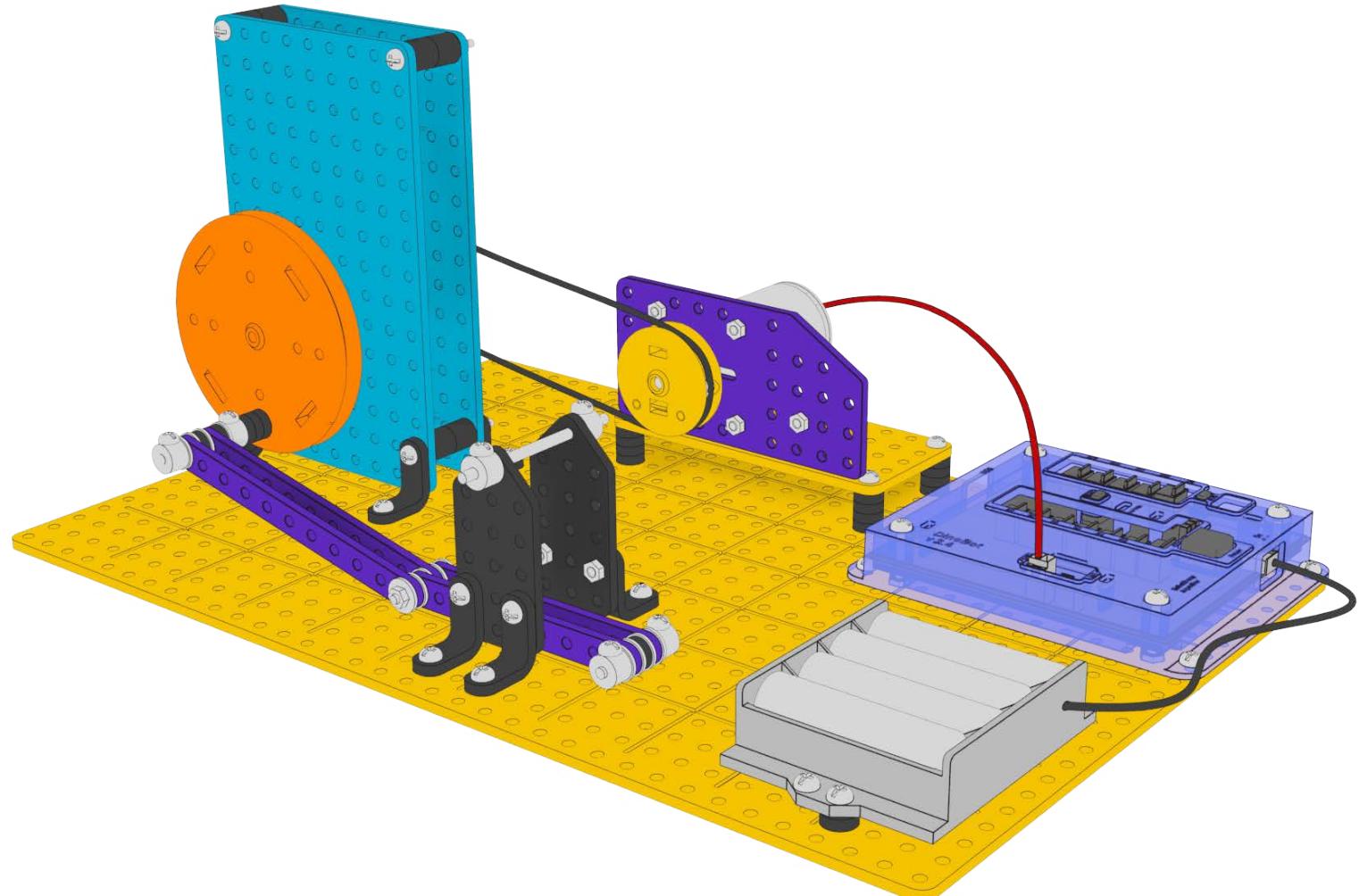


Paso 9

- 1 Portapilas 
- 4 Pilas 
- 2 Tornillo 12 mm 
- 2 Tuerca hexagonal 
- 2 Separadores de goma 3mm 

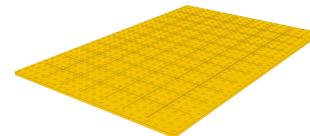


Secuencia de armado de una biela



Paso 1

1 Plancha 35x23



2 Plancha 9x15



4 Tornillo 30 mm



4 Tornillo 8 mm



8 Tuerca hexagonal



4 L



1 Separadores de goma
3mm



10 Separadores de goma
9mm



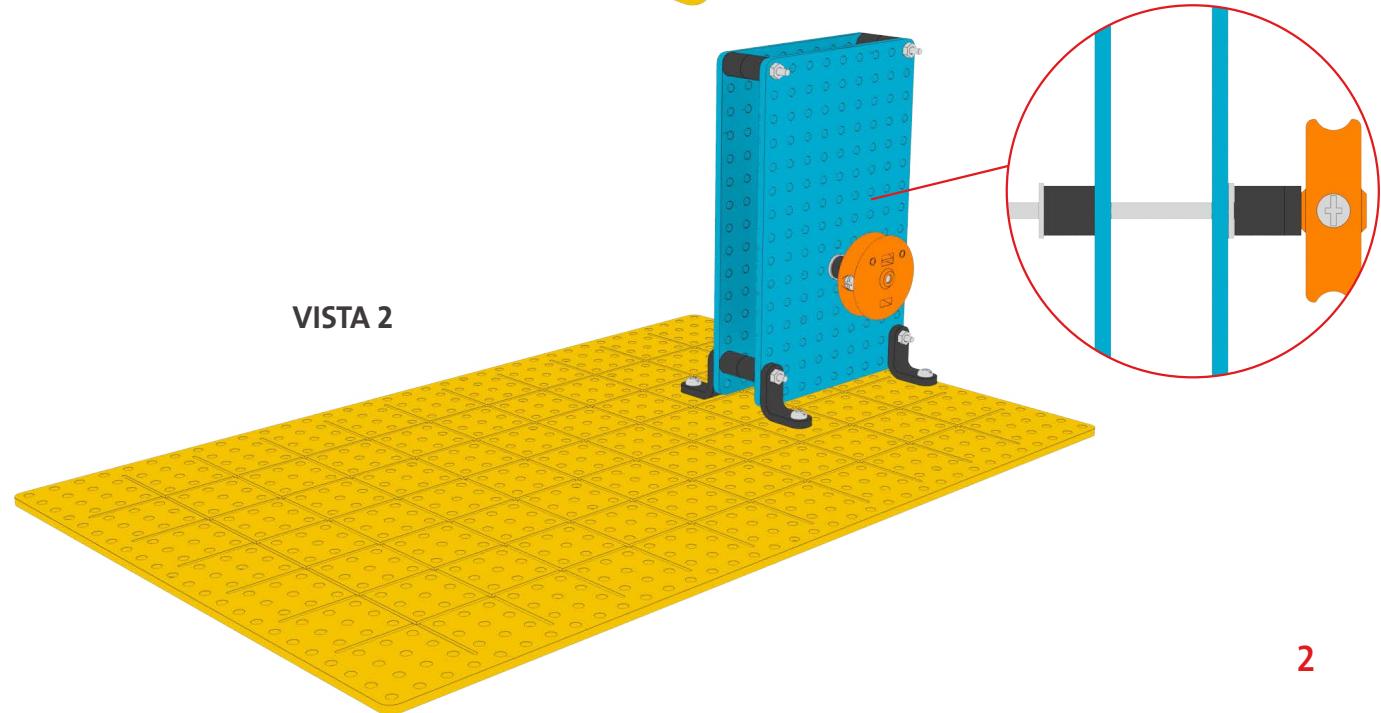
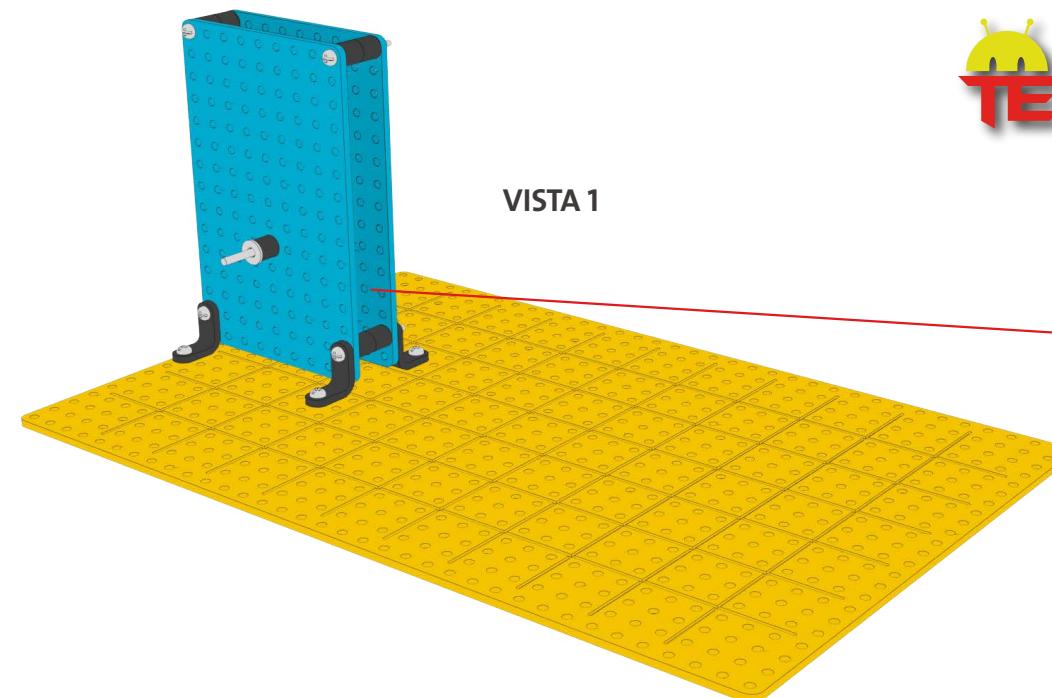
1 Polea chica naranja



1 Eje 7,2



2 Arandela



Paso 2

1 Polea grande naranja



5 Ajuste de eje



1 Eje 5,4



1 Eje 7,2



6 Separadores de goma
3mm



13 Arandela



2 Larguero 9



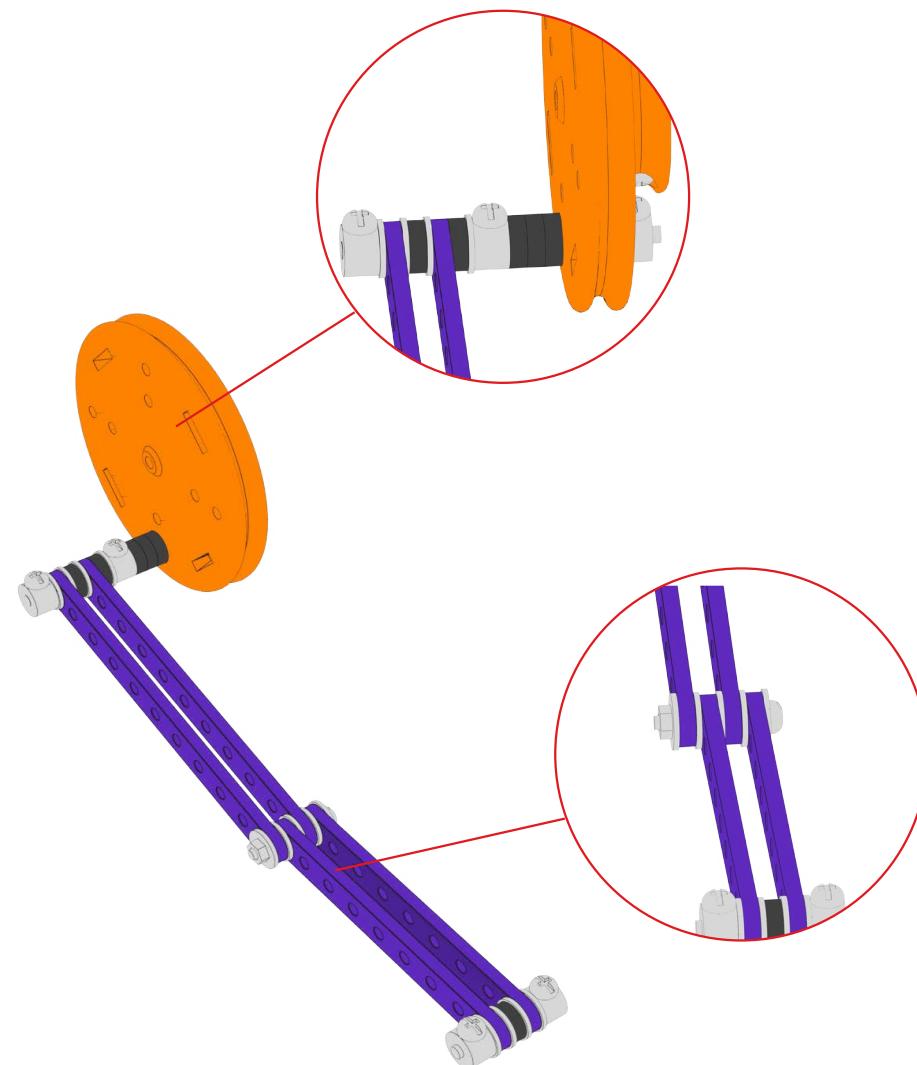
2 Larguero 11



1 Tornillo 20 mm



1 Tuerca hexagonal



Paso 3

Unir armados de PASO 1 + 2

2 Polígono 

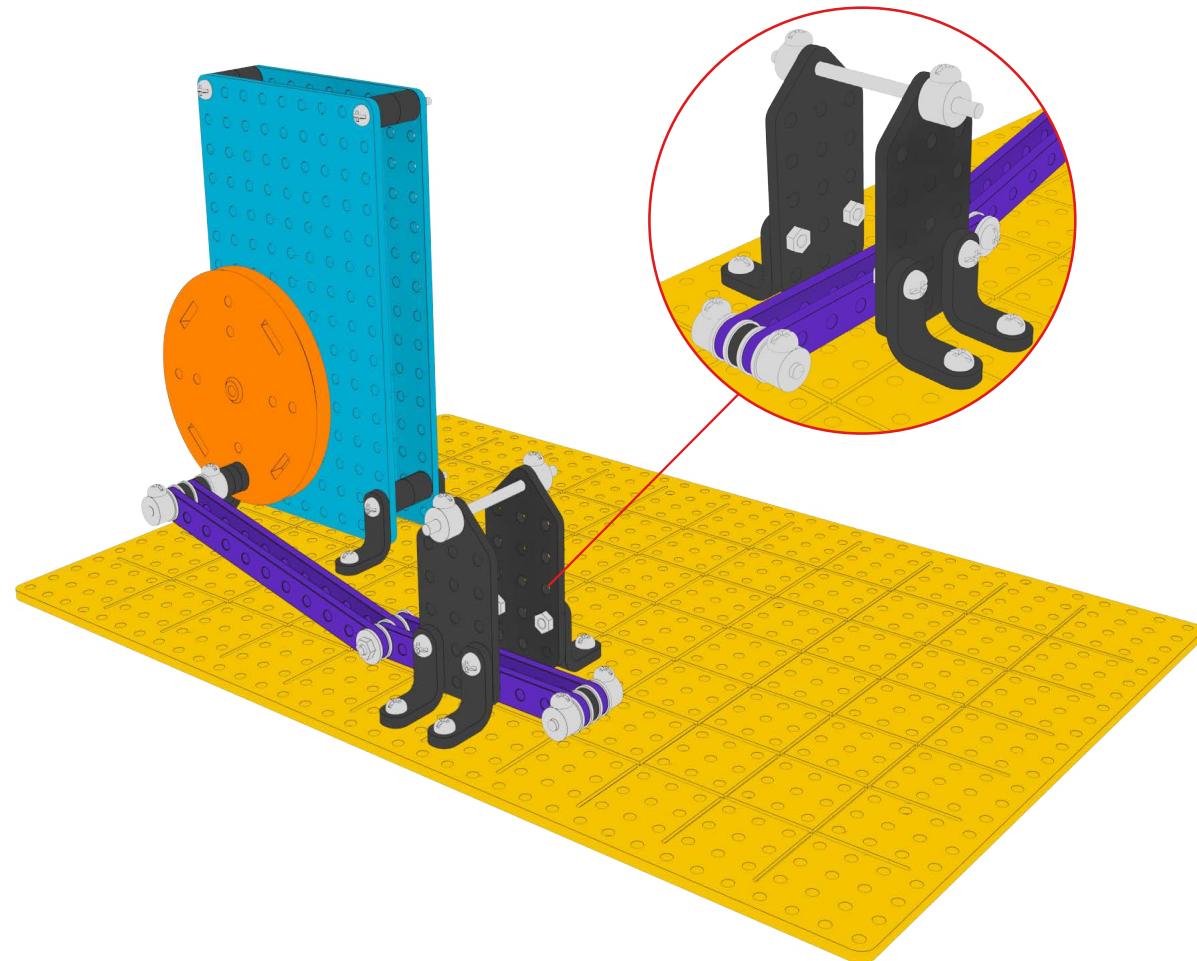
1 Eje 5,4 

2 Ajuste de eje 

4 L 

8 Tornillo 8 mm 

8 Tuerca hexagonal 



Paso 4

1 Soporte de motor



1 Plancha 11x5



16 Separadores de goma
3mm



4 Tornillo 20 mm



2 L



8 Tornillo 8 mm



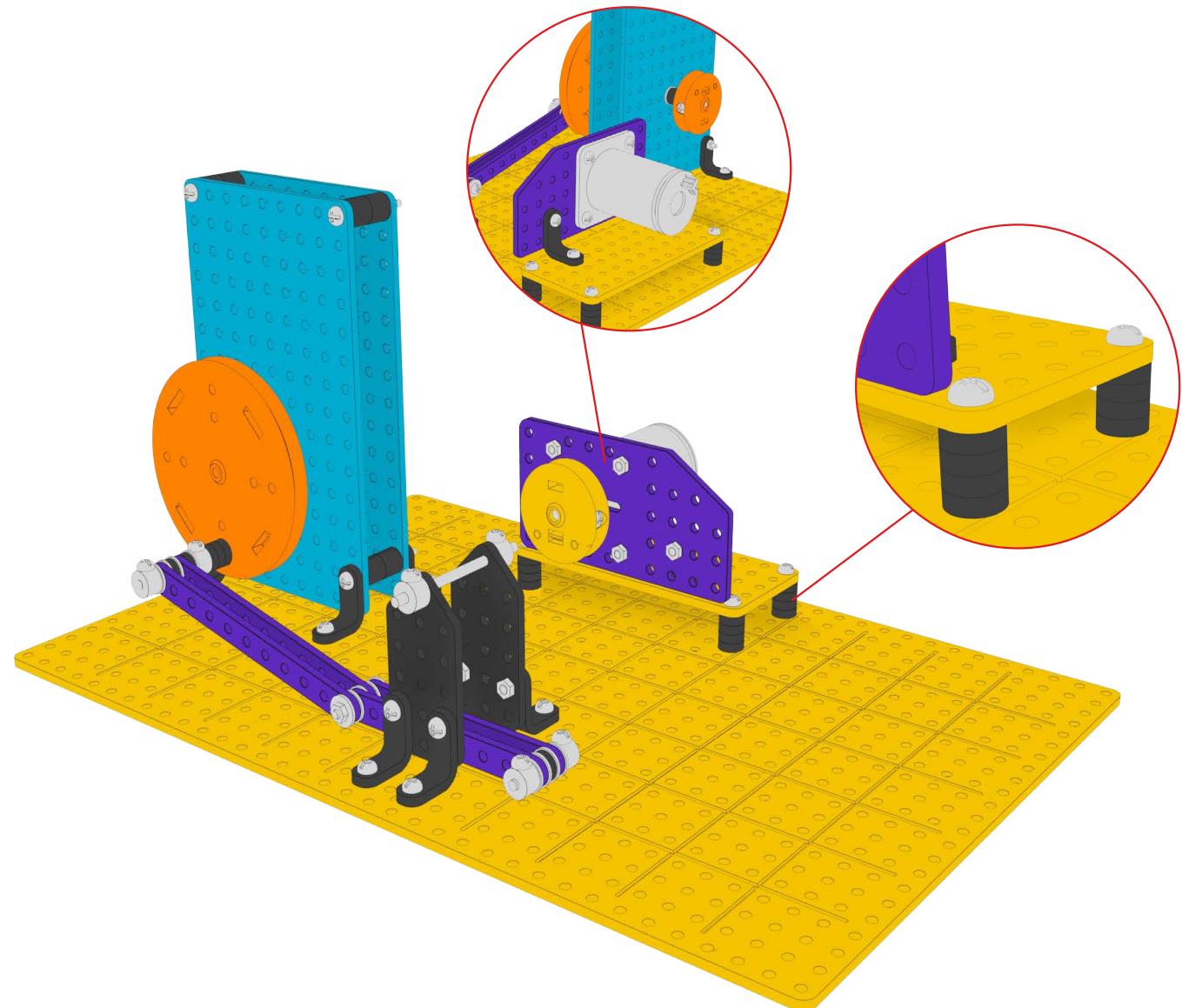
12 Tuerca hexagonal



1 Motor

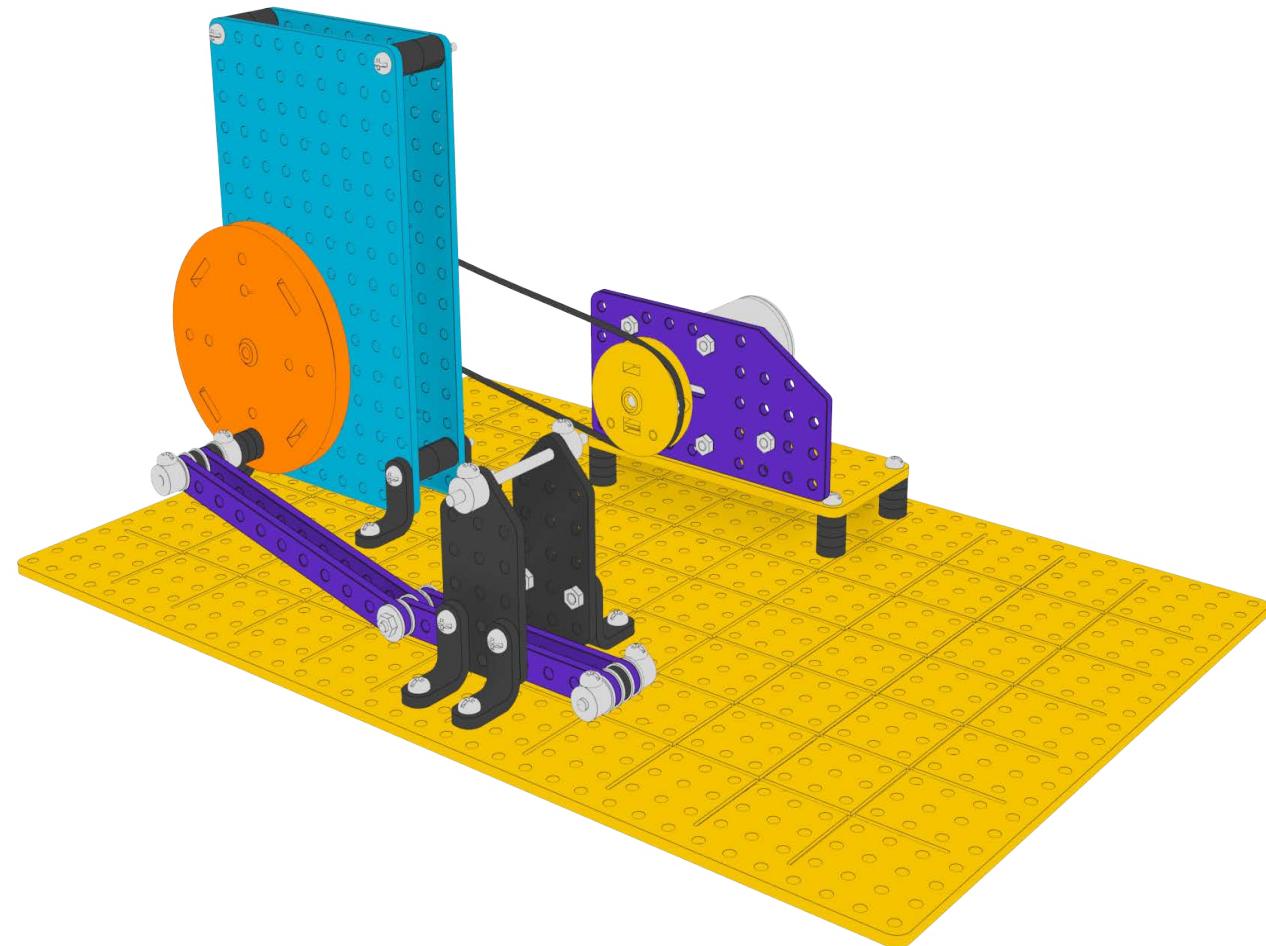


1 Polea chica amarilla



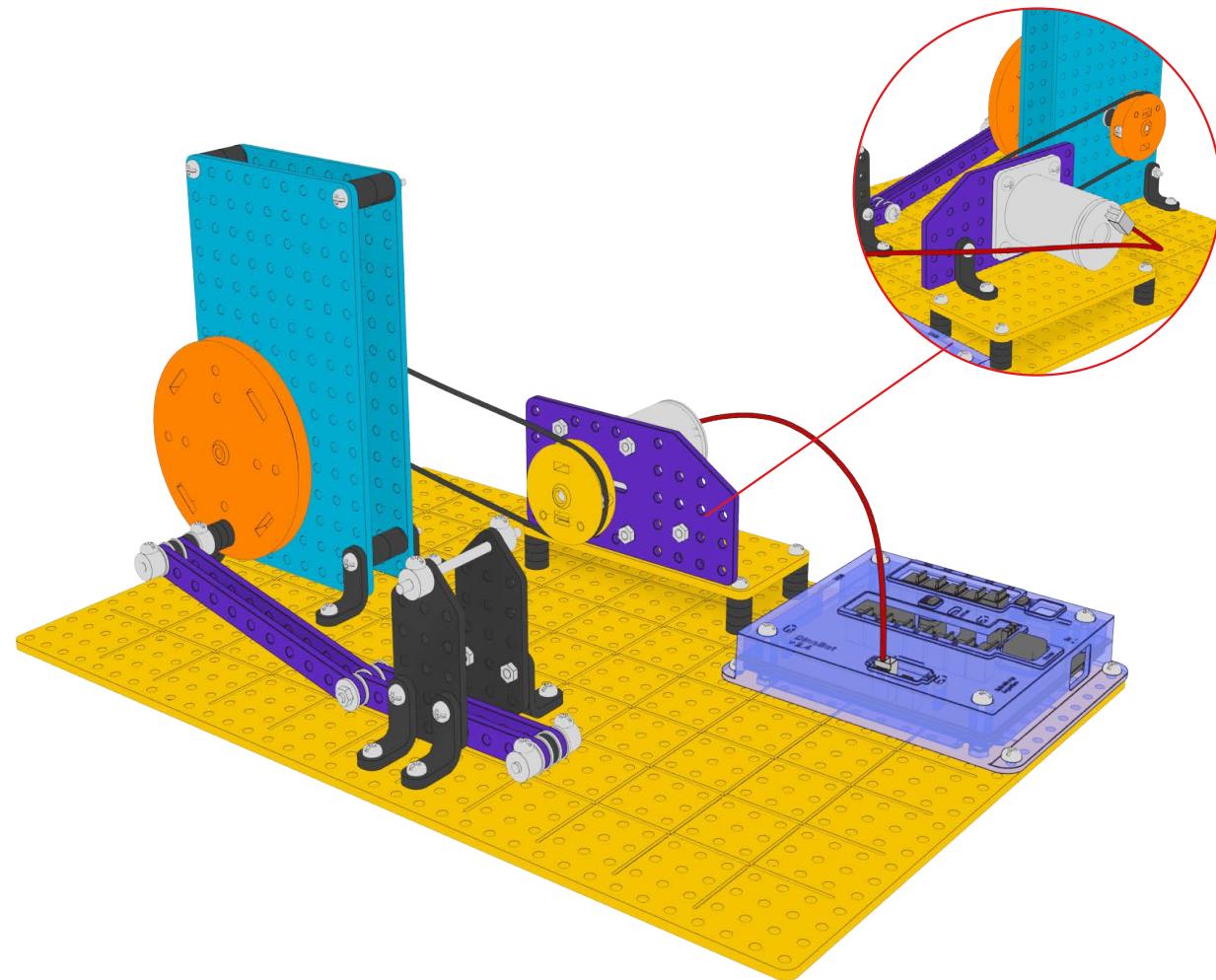
Paso 5

1 O-ring 154



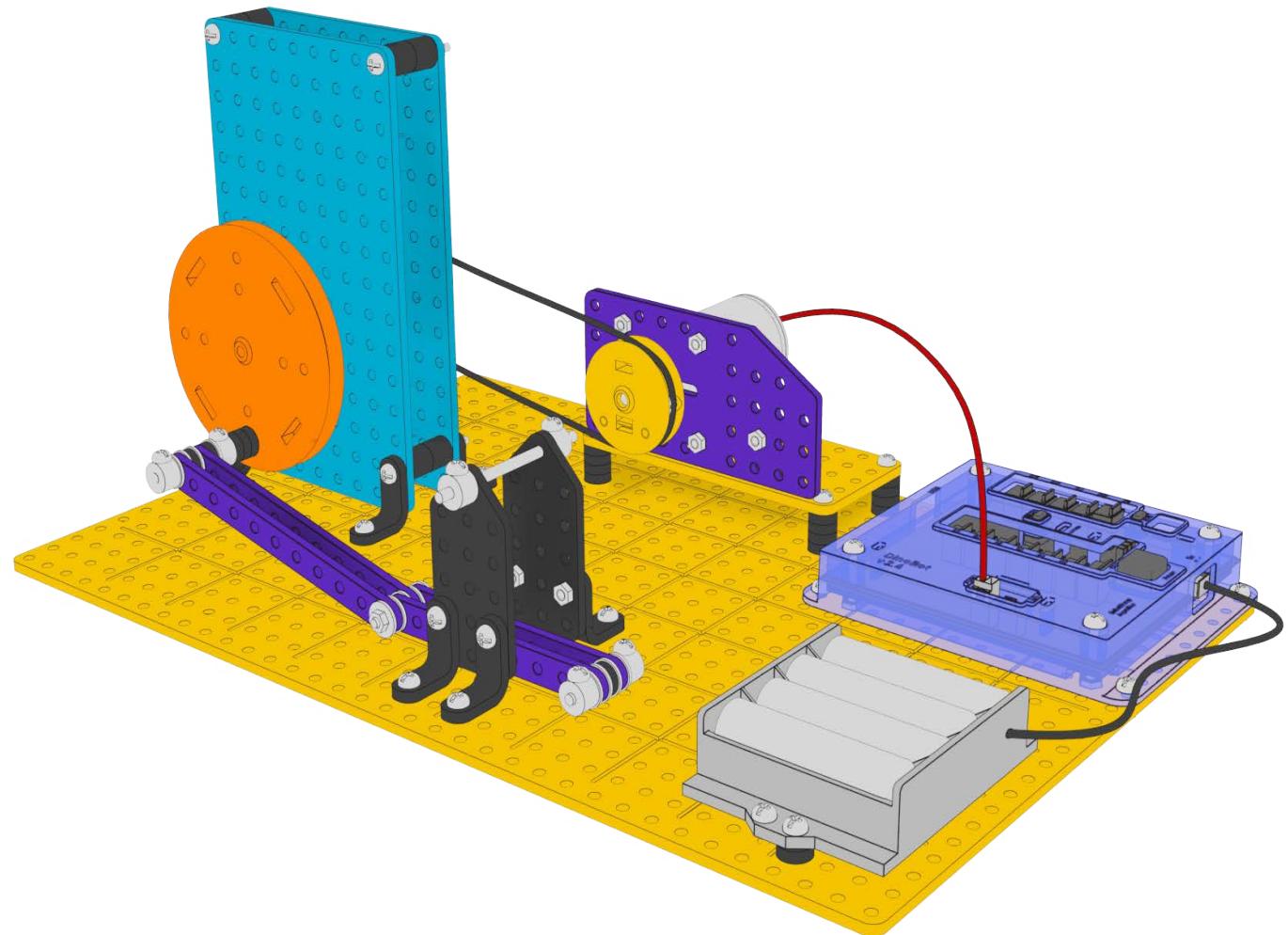
Paso 6

- 1 Placa
- 1 Cable de motor
- 4 Tornillo 8 mm
- 4 Tuerca hexagonal

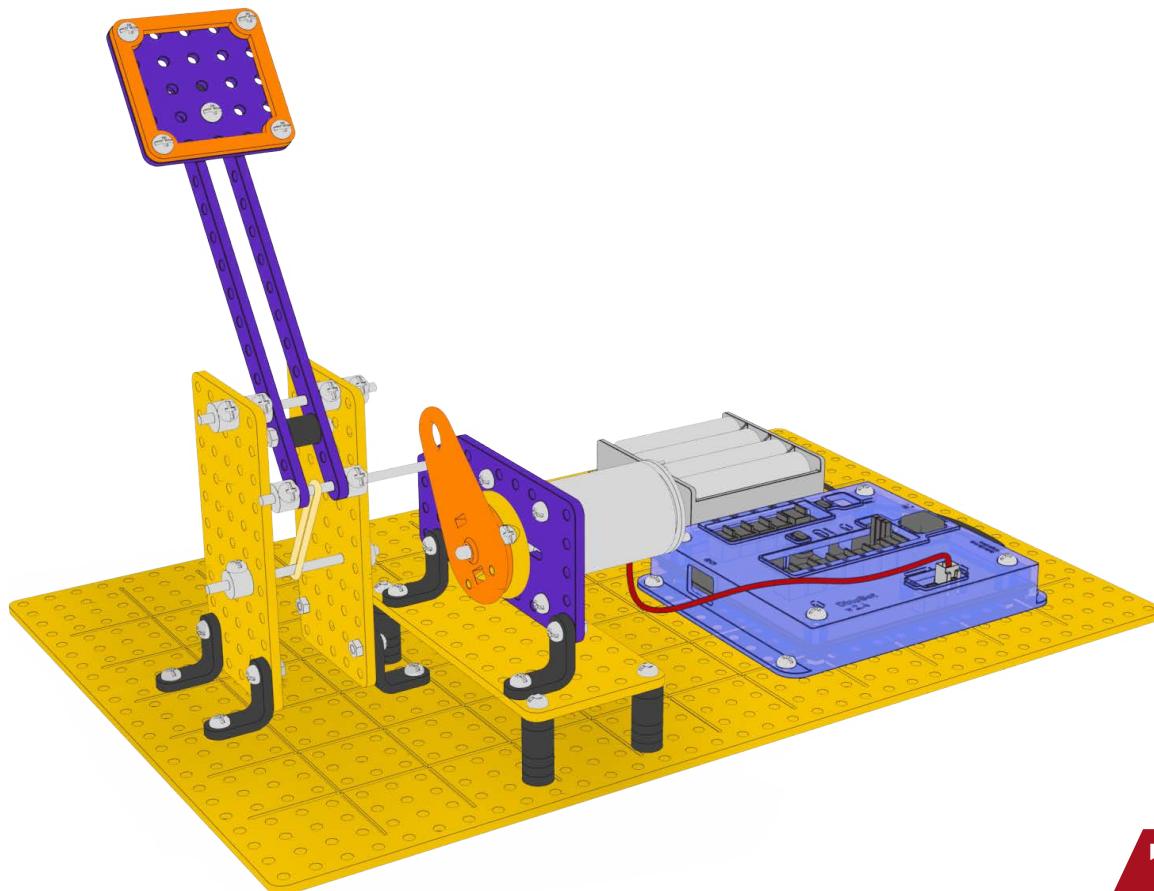


Paso 7

- 1 Portapilas 
- 4 Pilas 
- 2 Tornillo 12 mm 
- 2 Tuerca hexagonal 
- 2 Separadores de goma 3mm 



Secuencia de armado de una catapulta

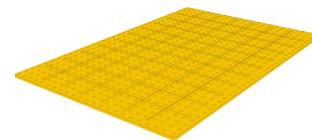


MATERIAL
EXTRA

Banda elástica

Paso 1

1 Plancha 35x23



2 Plancha 11x5



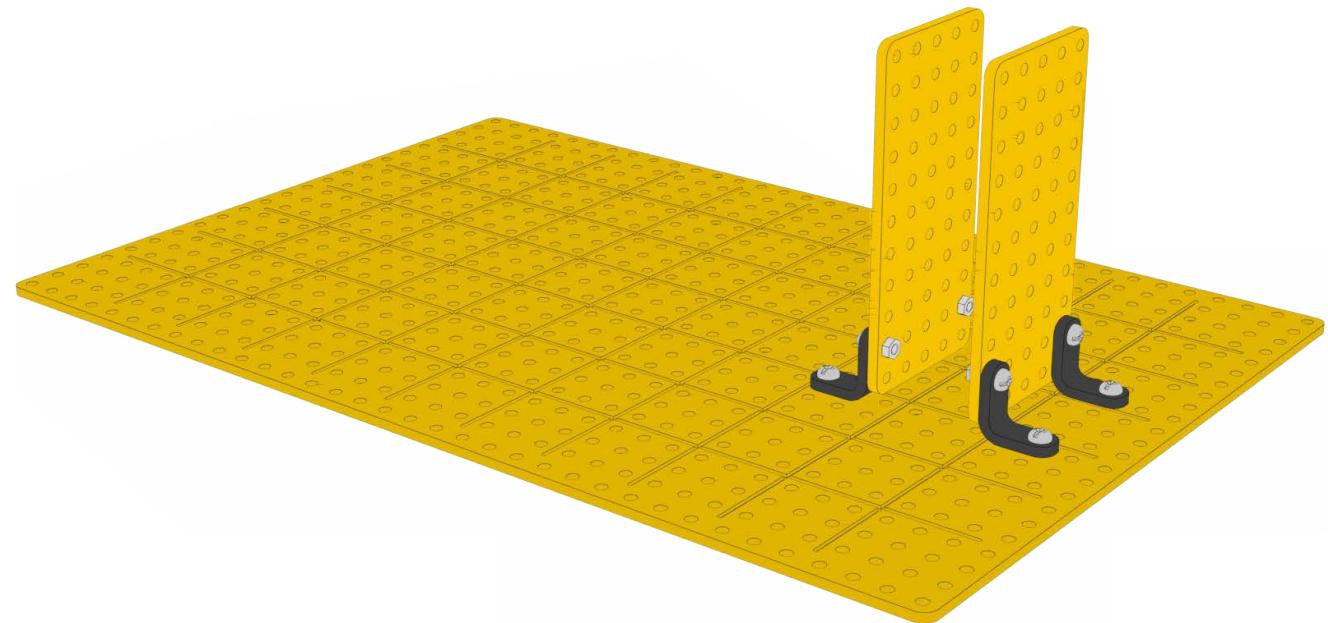
4 L



8 Tornillo 8 mm

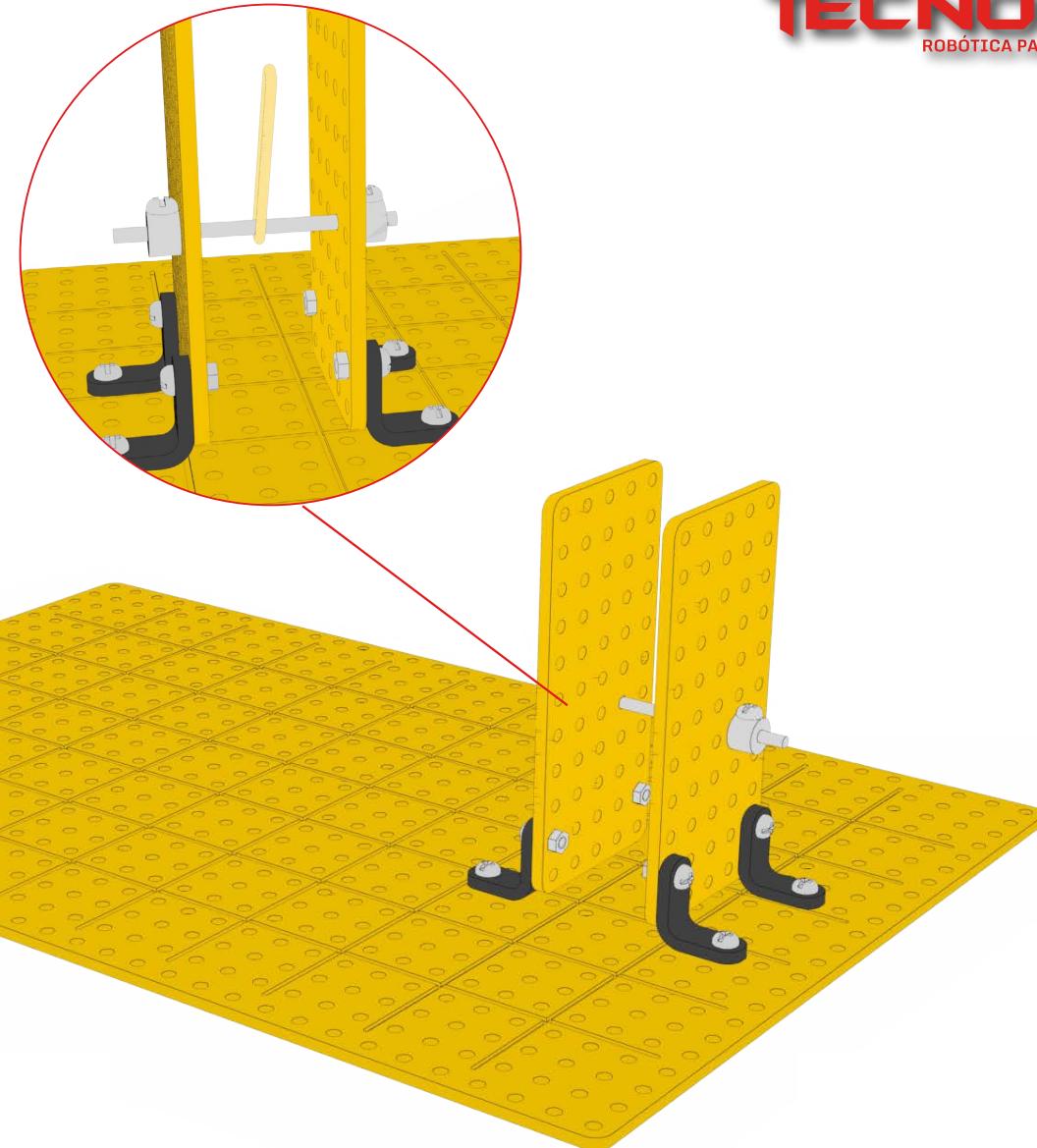


8 Tuerca hexagonal



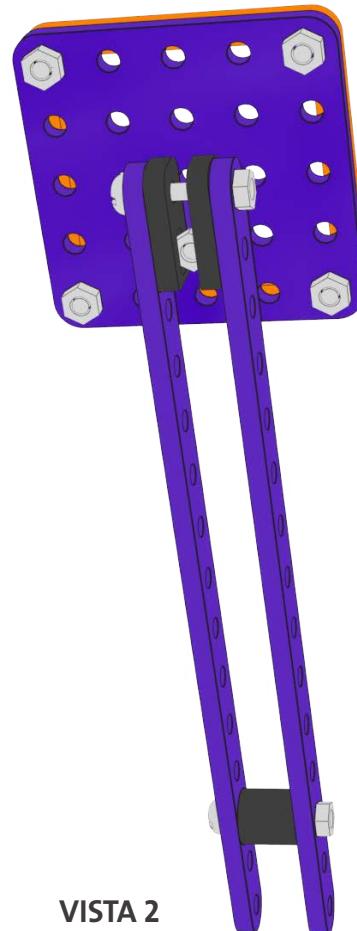
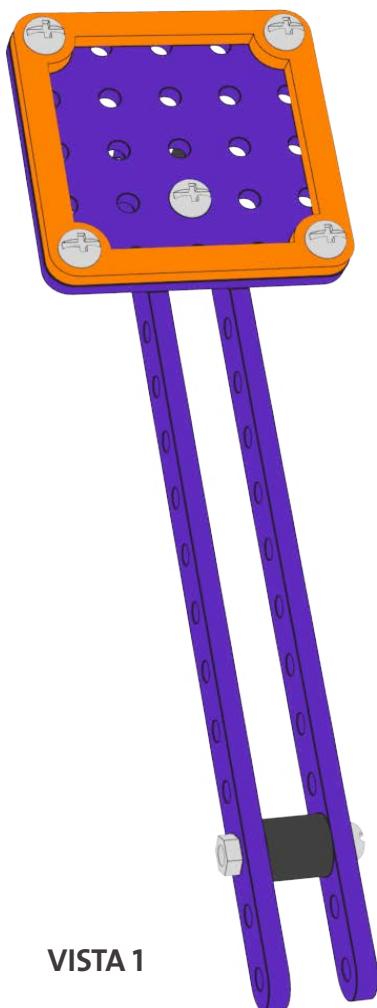
Paso 2

- 1 Eje 5,4
- 2 Ajuste de eje
- 1 Banda elástica



Paso 3

- 2 Larguero 15
- 2 Tornillo 16 mm
- 1 Separadores de goma 9mm
- 1 Plancha 5x5
- 1 Cuadrado hueco
- 2 Anclaje a 90 g
- 5 Tornillo 8 mm
- 7 Tuerca hexagonal



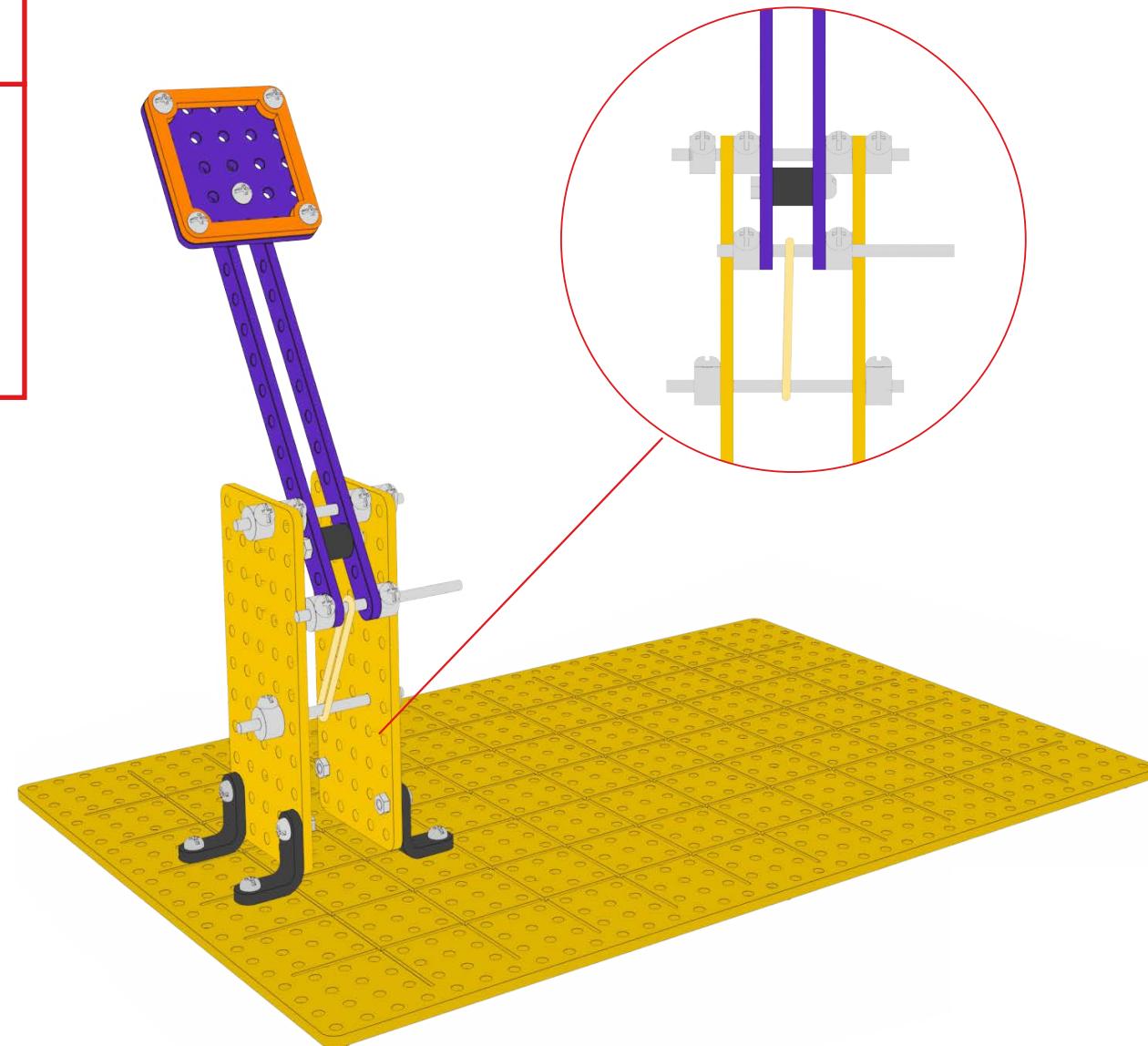
Paso 4

Unir armados de PASO 2 + 3

2 Eje 5,4



6 Ajuste de eje



Paso 5

1 Plancha 11x5



16 Separadores de goma
3mm



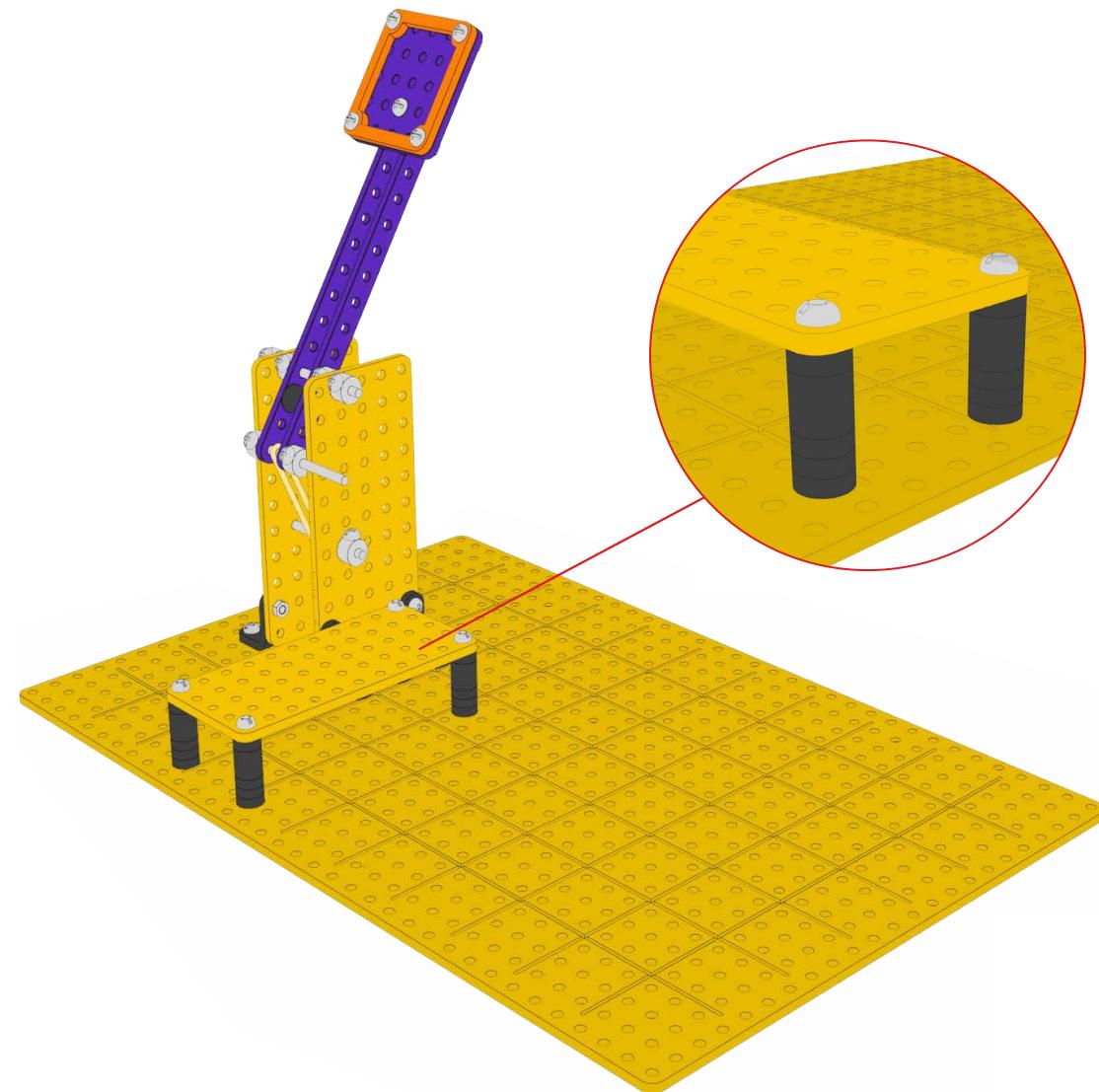
4 Separadores de goma
9mm



4 Tornillo 30 mm

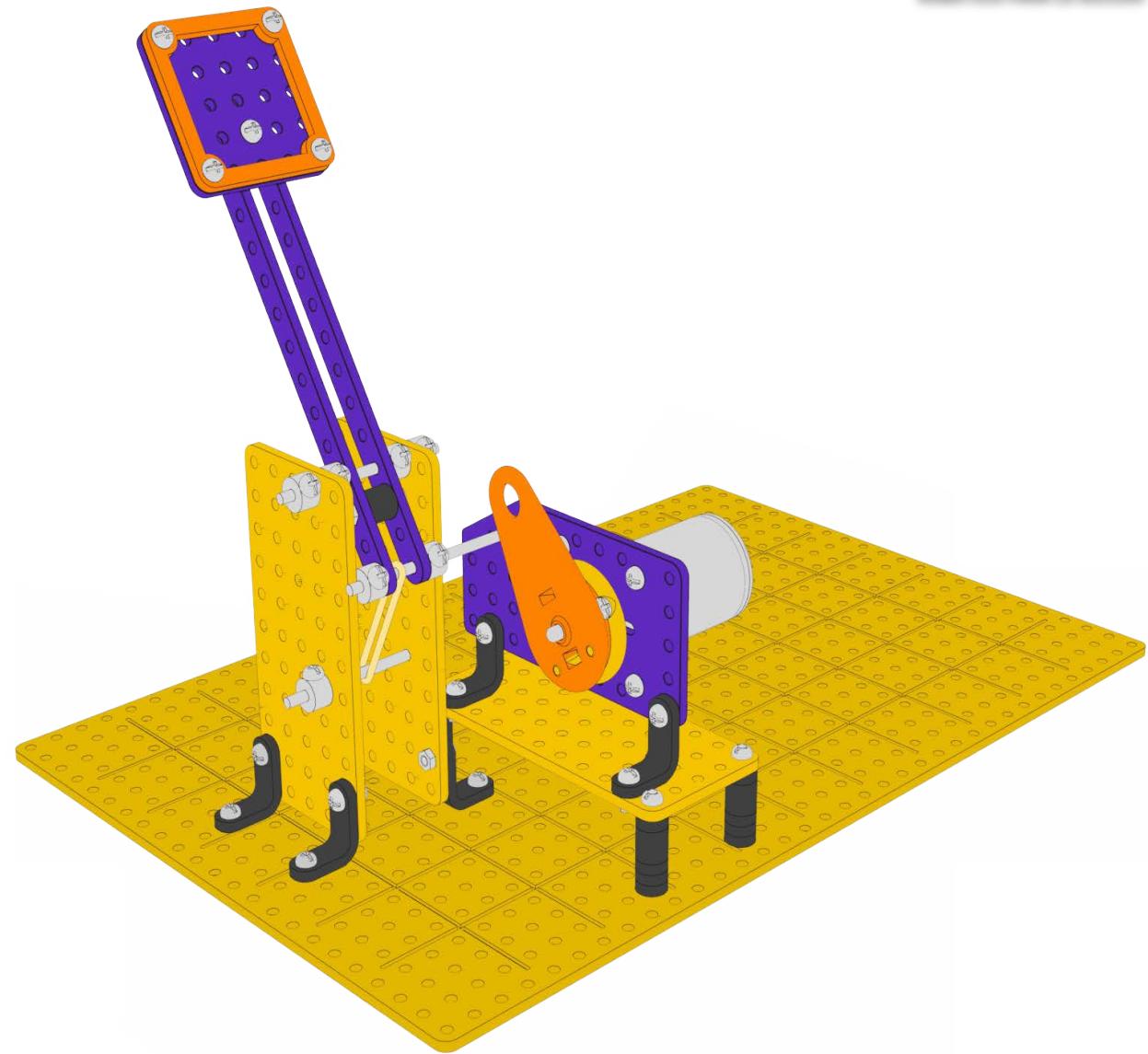


4 Tuerca hexagonal



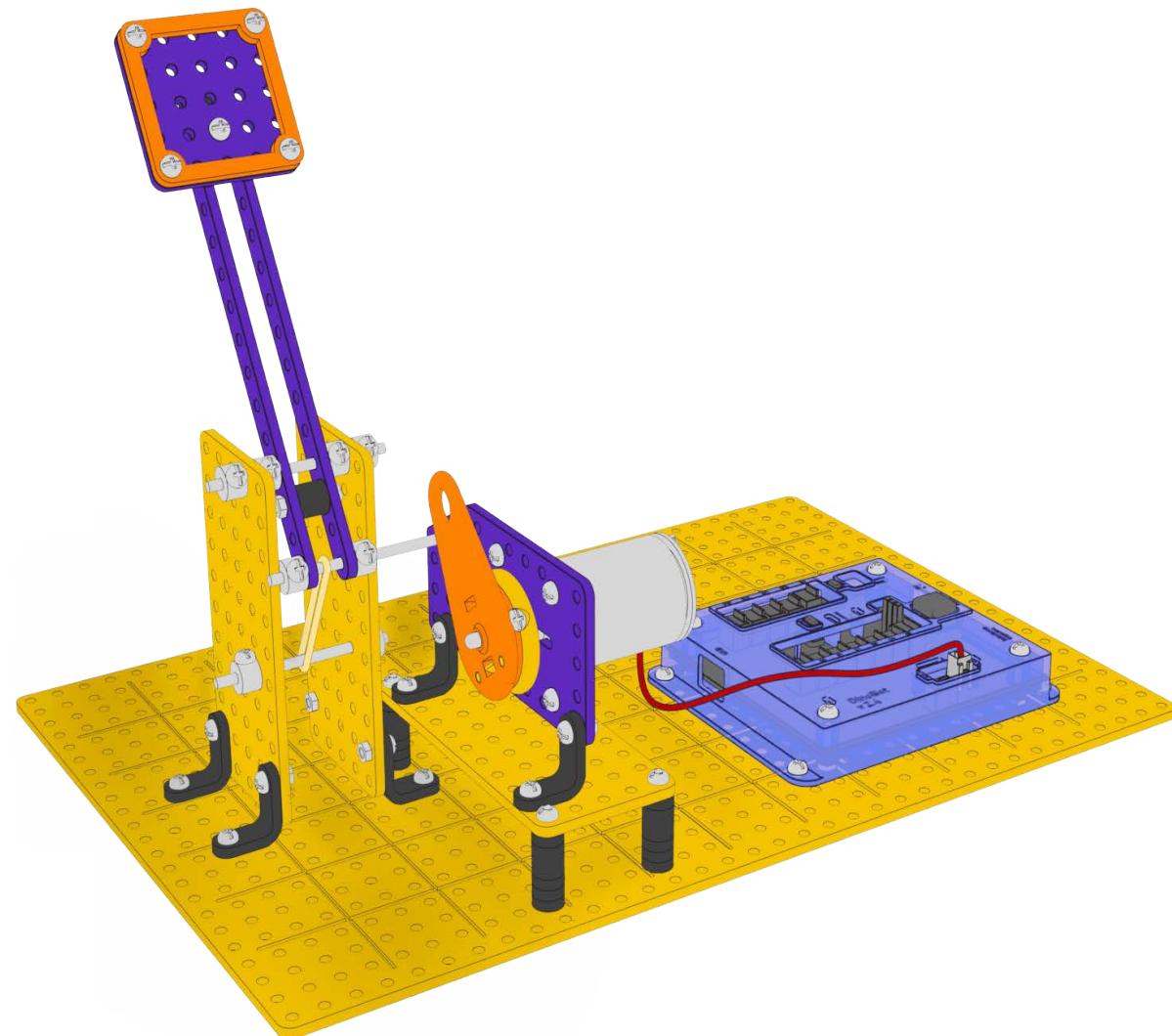
Paso 6

- 1 Soporte de motor 
- 1 Motor 
- 2 L 
- 8 Tornillo 8 mm 
- 8 Tuerca hexagonal 
- 1 Manivela 



Paso 7

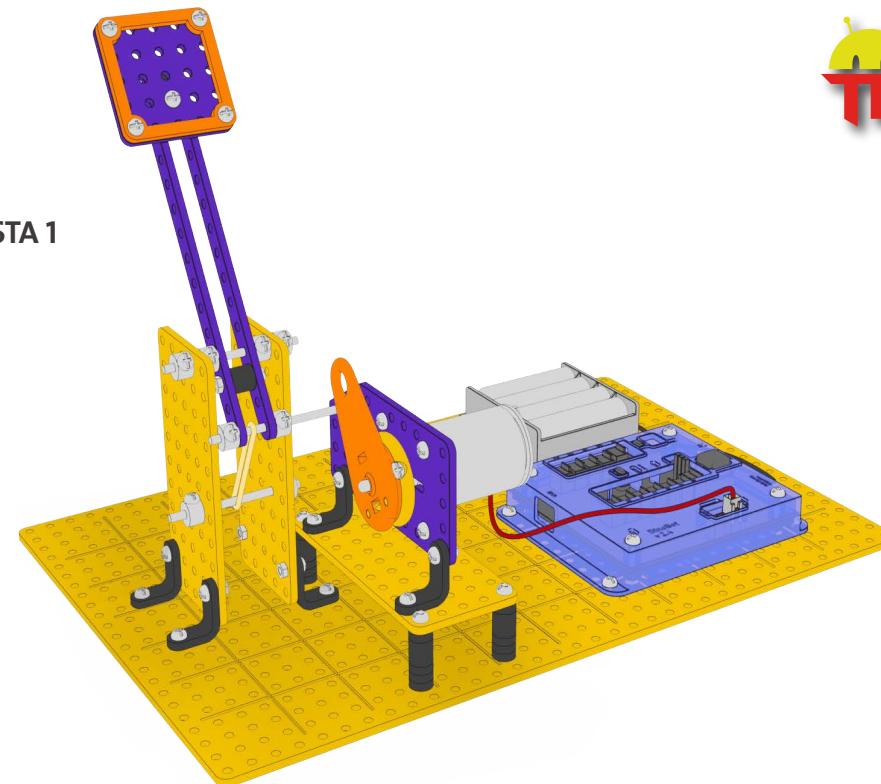
- 1 Placa 
- 1 Cable de motor 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 



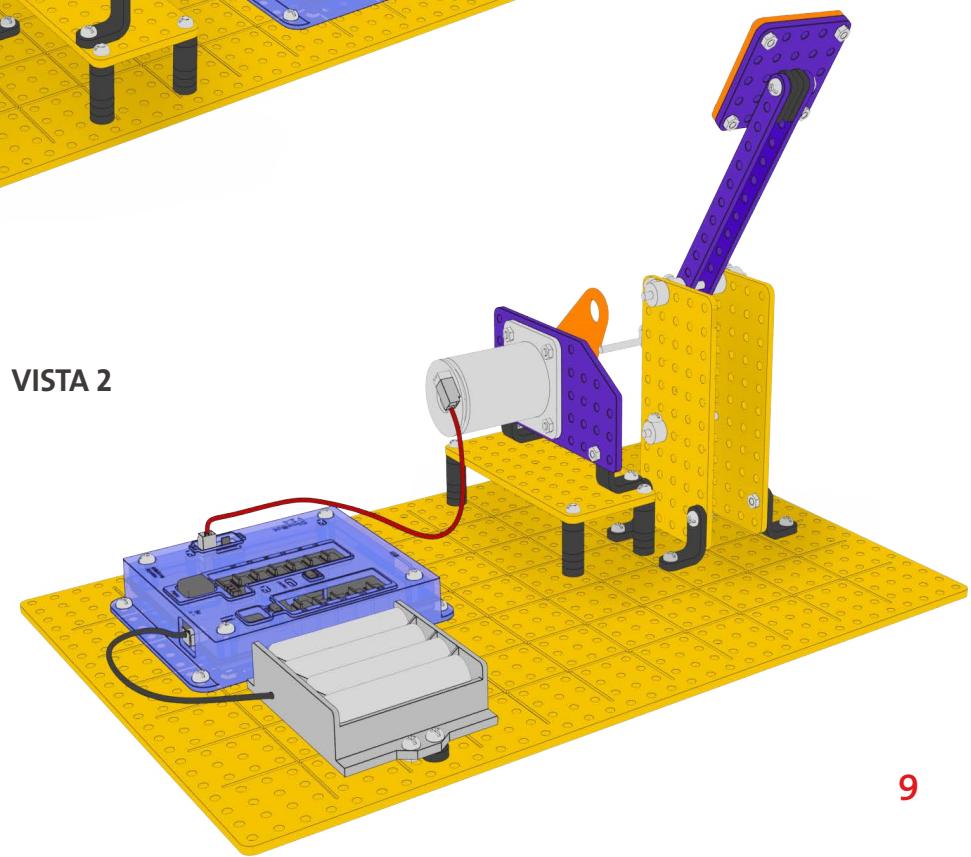
Paso 8

- 1 Portapilas 
- 4 Pilas 
- 2 Tornillo 12 mm 
- 2 Tuerca hexagonal 
- 2 Separadores de goma 3mm 

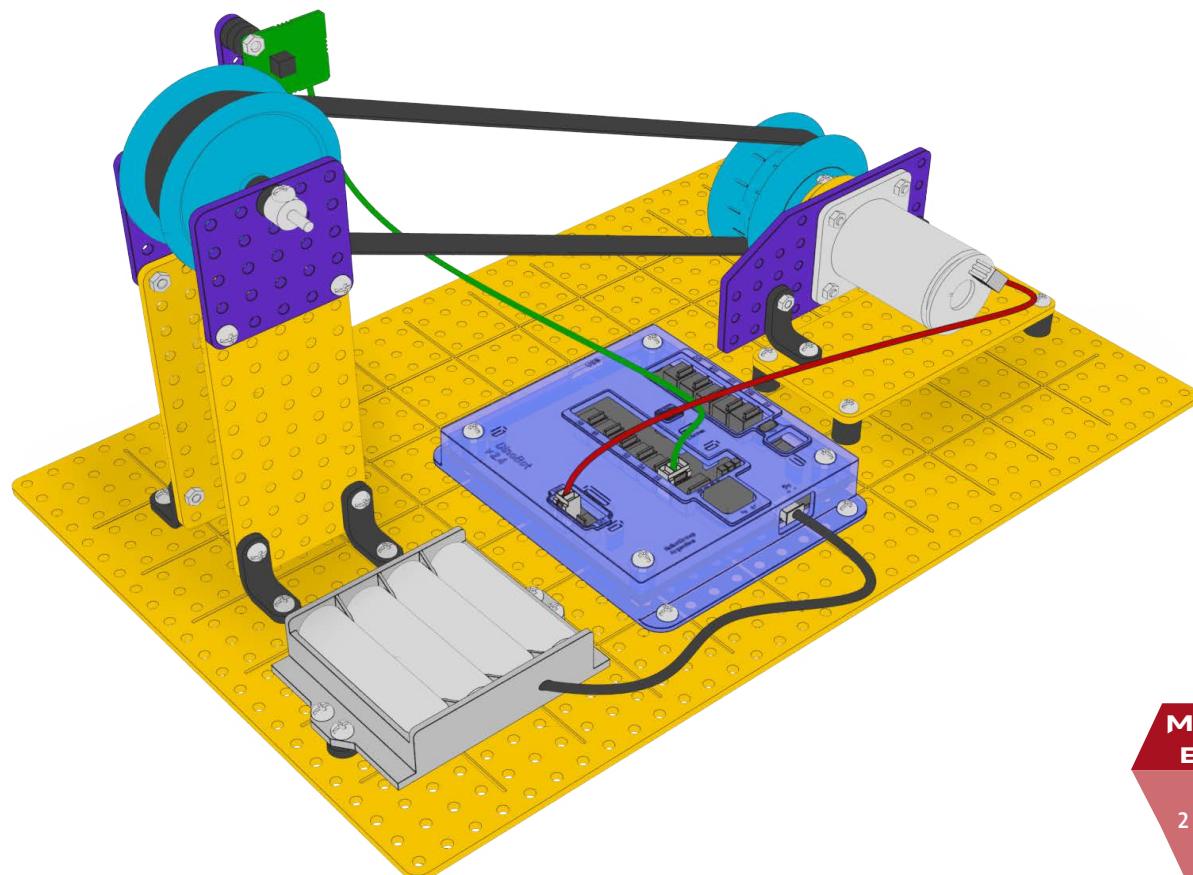
VISTA 1



VISTA 2



Secuencia de armado de una cinta en ascenso

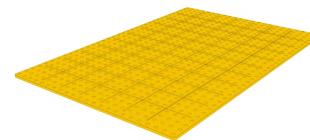


MATERIAL EXTRA

Elástico de
2 cm de ancho
máximo

Paso 1

1 Plancha 35x23



2 Plancha 11x5



2 Plancha 5x5



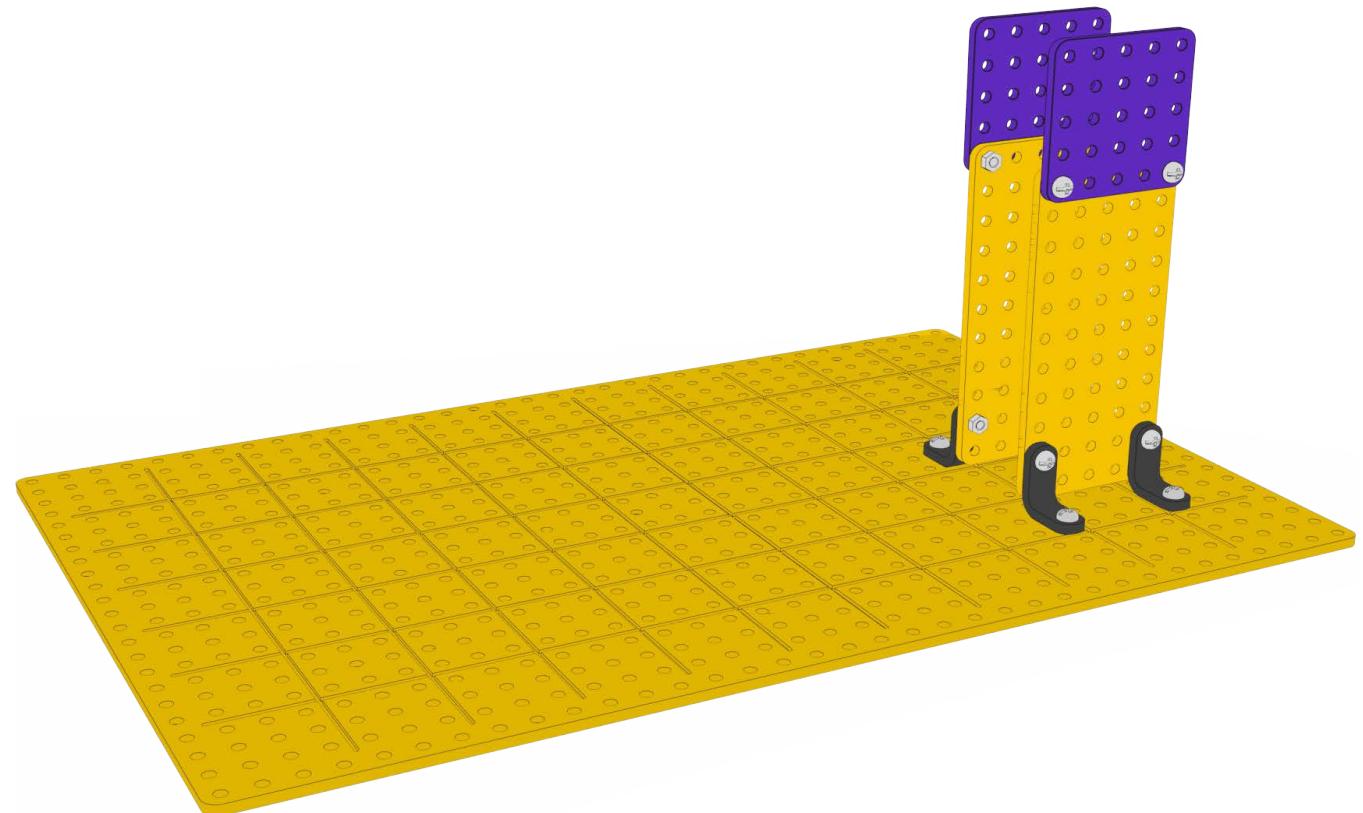
4 L



12 Tornillo 8 mm



12 Tuerca hexagonal



Paso 2

1 Polea ancha celeste



1 Eje 7,2



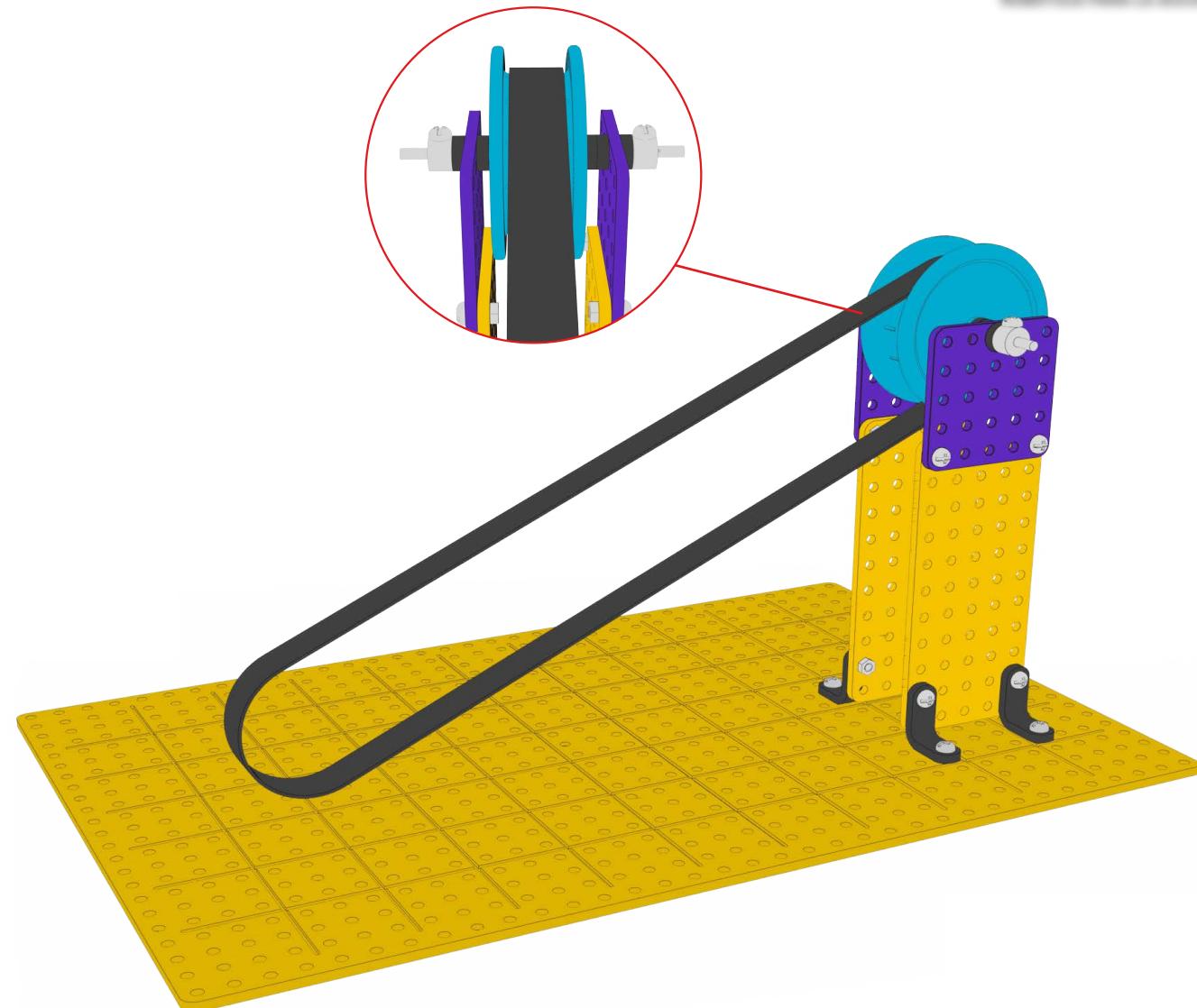
2 Ajuste de eje



5 Separadores de goma
3mm



Cinta o elástico



Paso 3

1 Soporte de motor



1 Motor



8 Tornillo 8 mm



8 Tuerca hexagonal

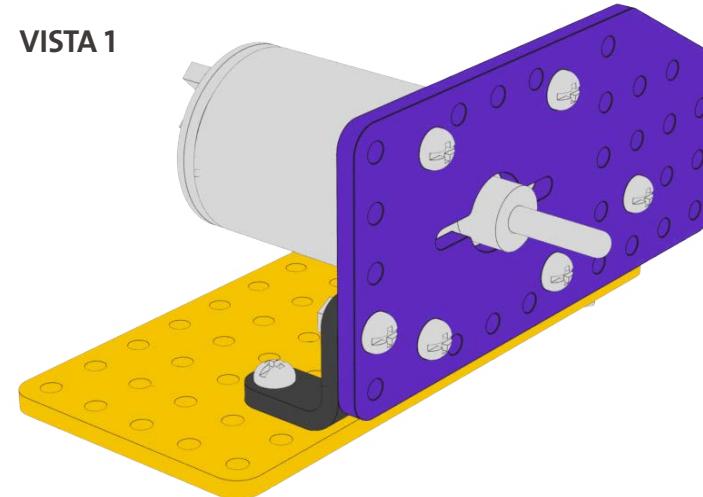


2 L

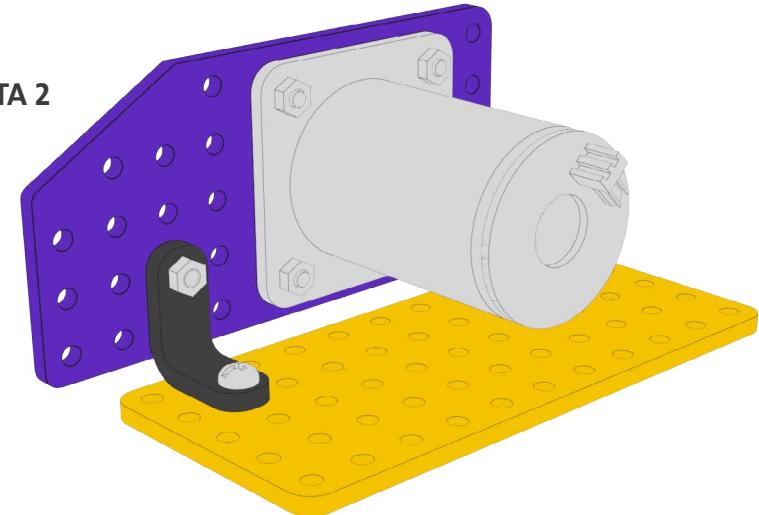


1 Plancha 11x5

VISTA 1



VISTA 2



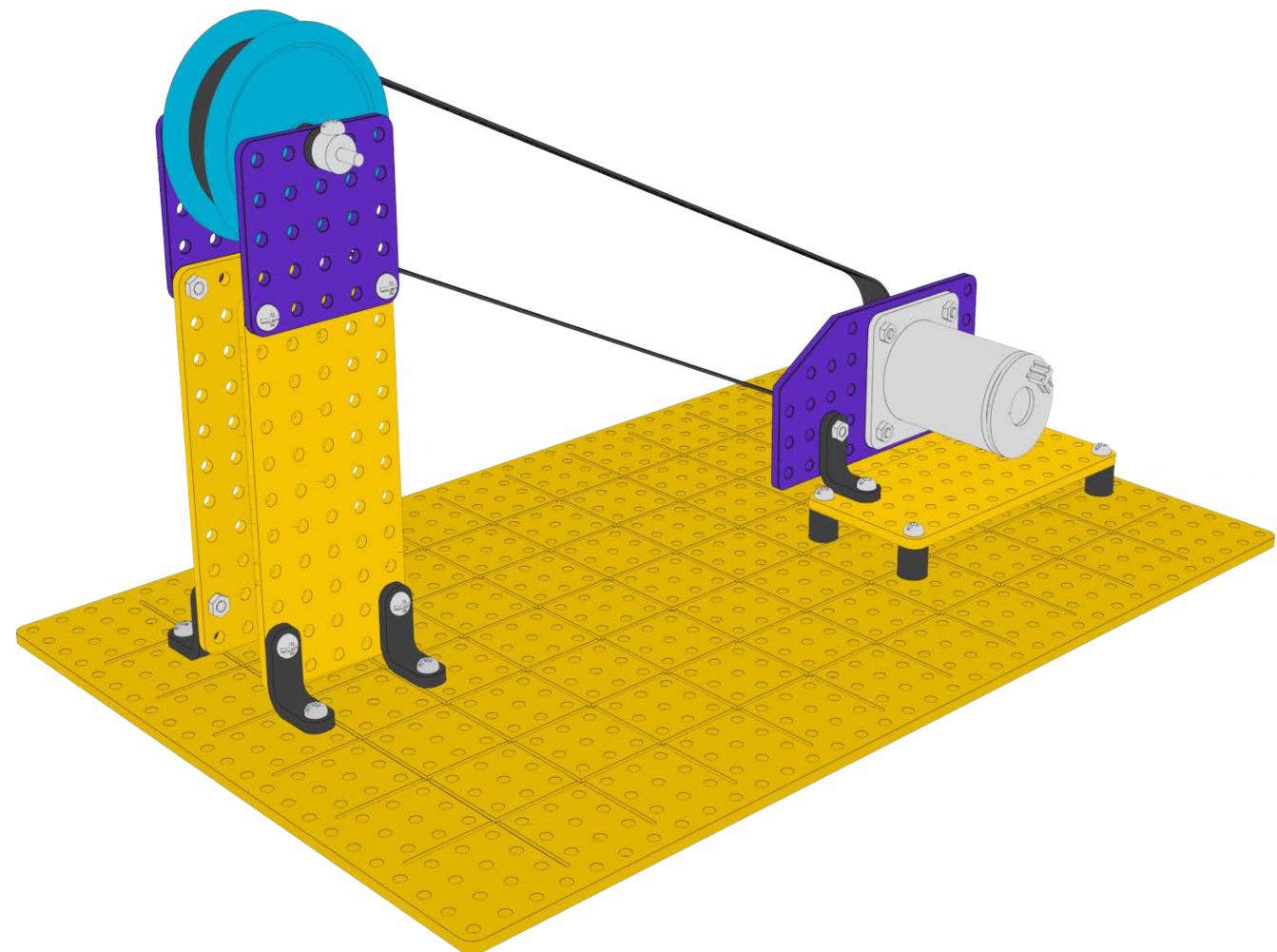
Paso 4

Unir armados de PASO 2 + 3

4 Tornillo 20 mm 

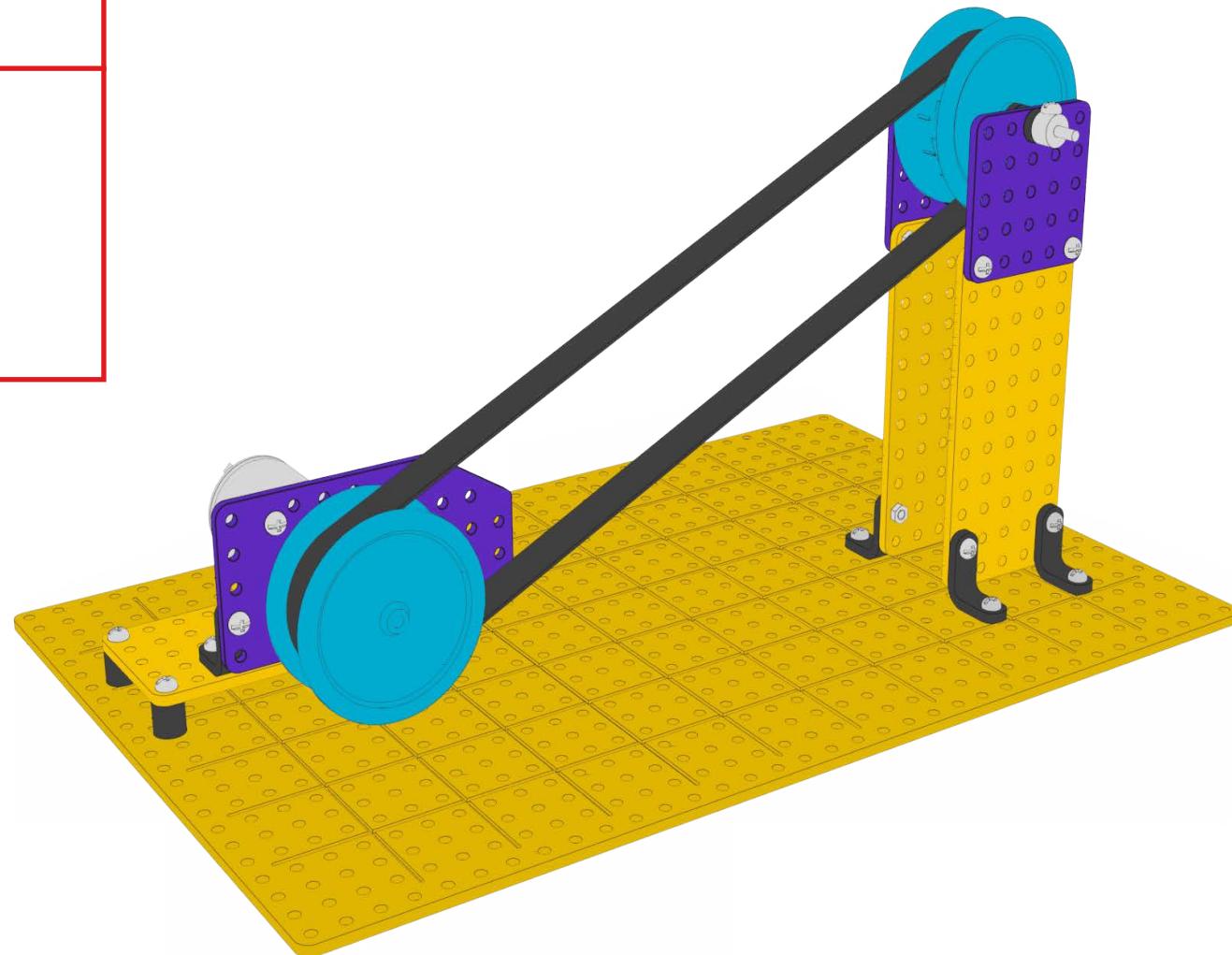
4 Separadores de goma
9mm 

4 Tuerca hexagonal 



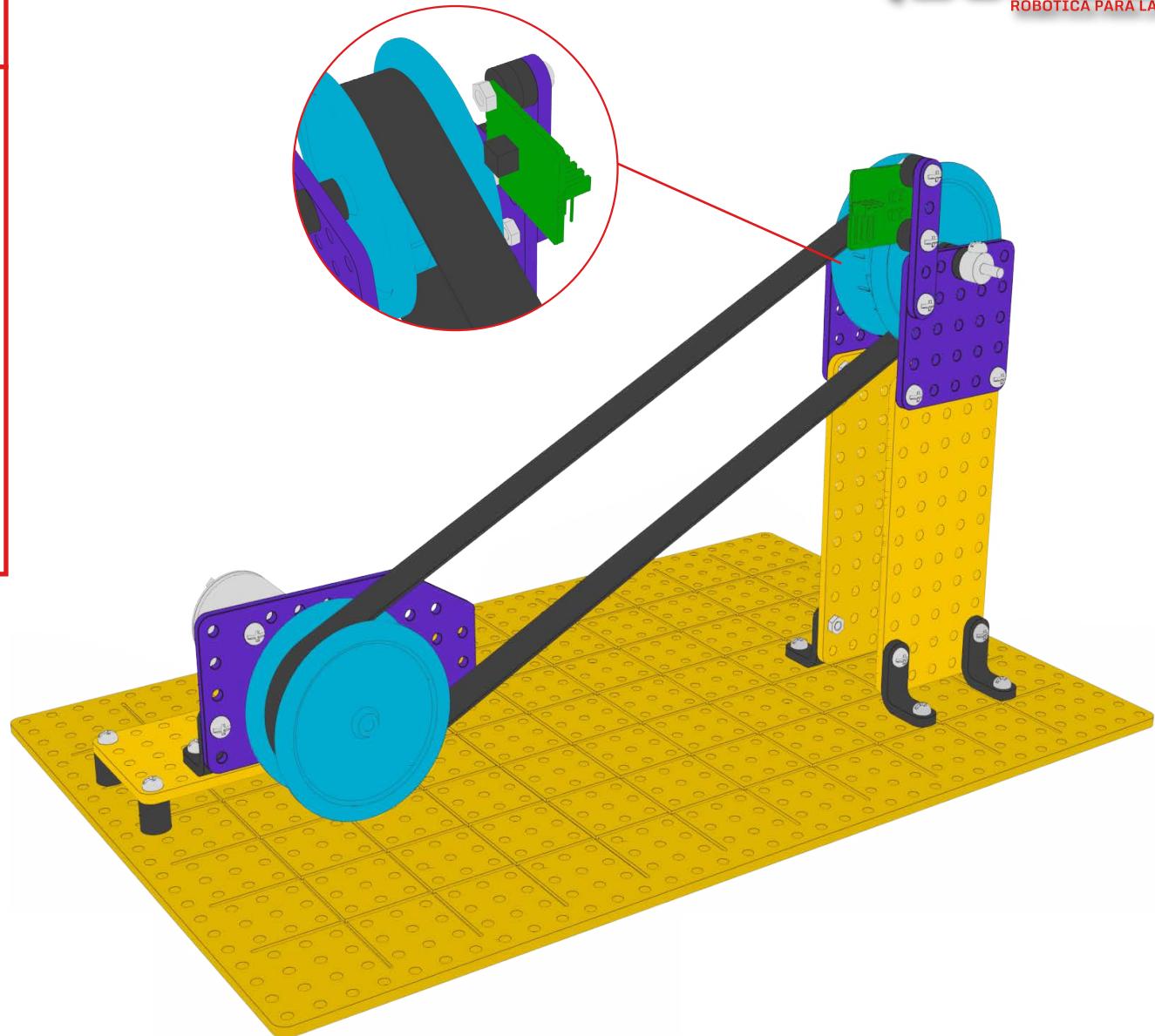
Paso 5

- 1 Polea ancha celeste y amarilla



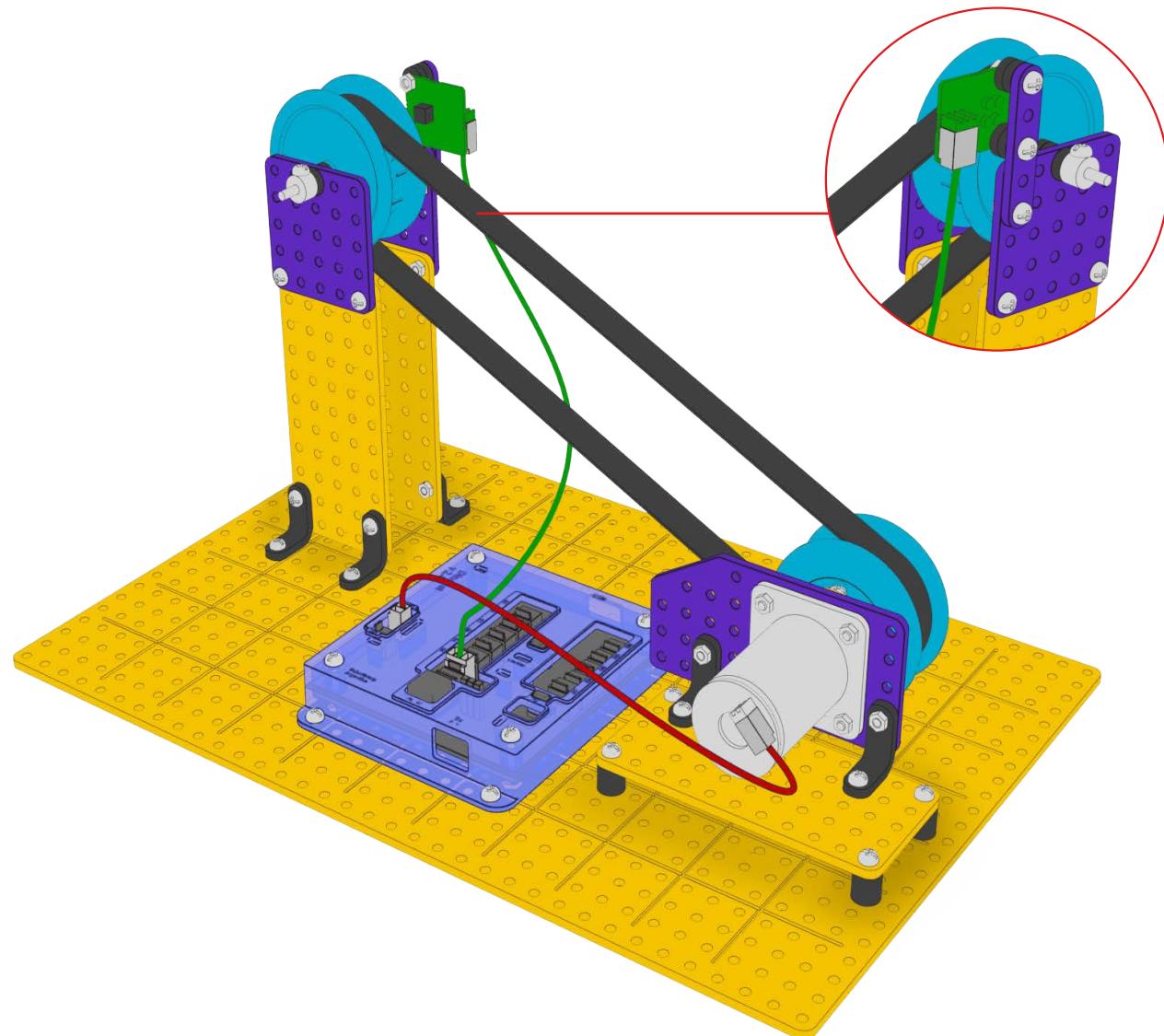
Paso 6

- 1 Sensor IR - CNY70 (infrarrojo) 
- 1 Languero 5 
- 1 Tornillo 8 mm 
- 2 Tornillo 12 mm 
- 4 Separadores de goma 3mm 
- 3 Tuerca hexagonal 



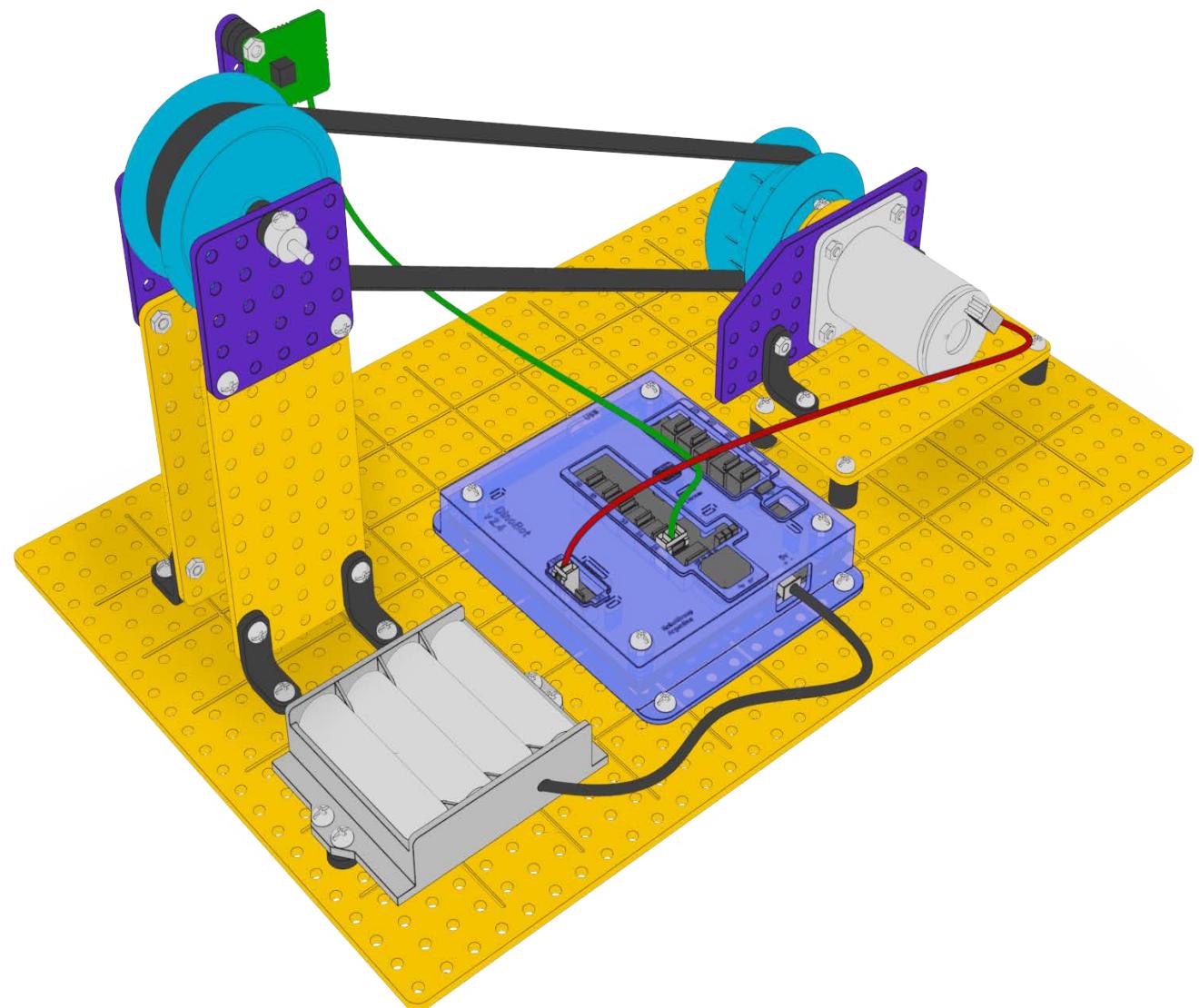
Paso 7

- 1 Placa 
- 1 Cable de motor 
- 1 Cable de sensor 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 

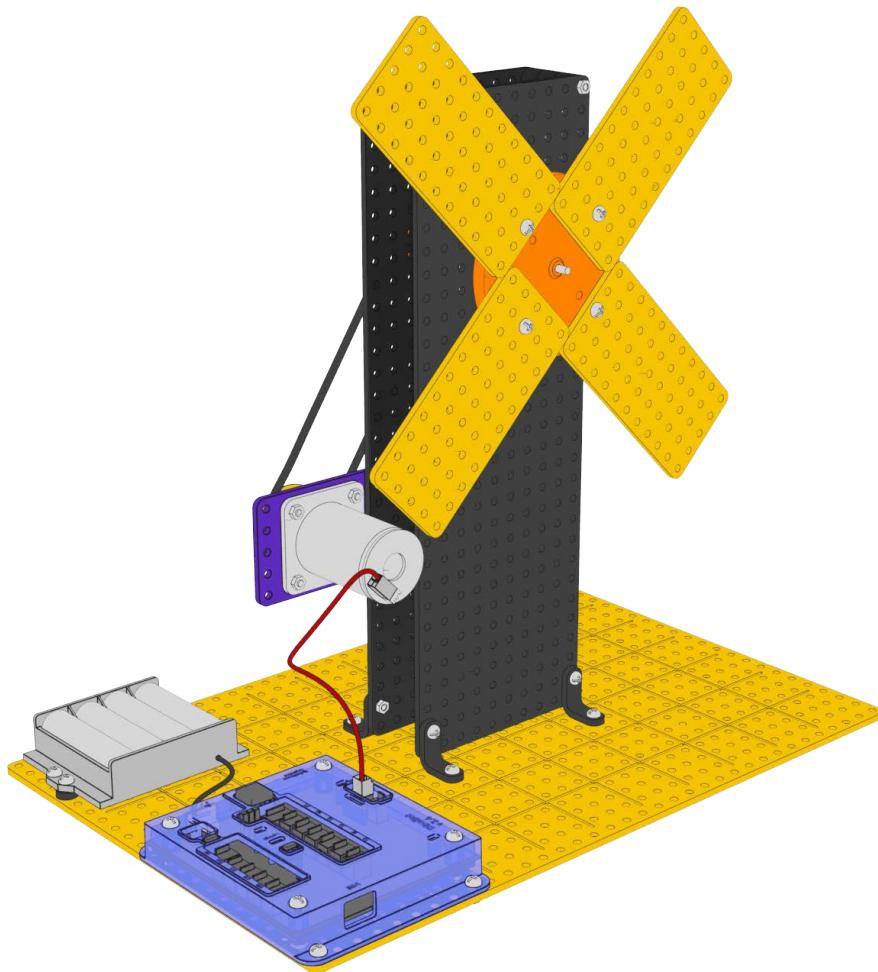


Paso 8

- 1 Portapilas
- 4 Pilas
- 2 Tornillo 12 mm
- 2 Tuerca hexagonal
- 2 Separadores de goma
3mm

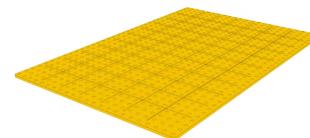


Secuencia de armado de un molino



Paso 1

1 Plancha 35x23



2 Plancha 30x10



4 L



8 Tornillo 8 mm



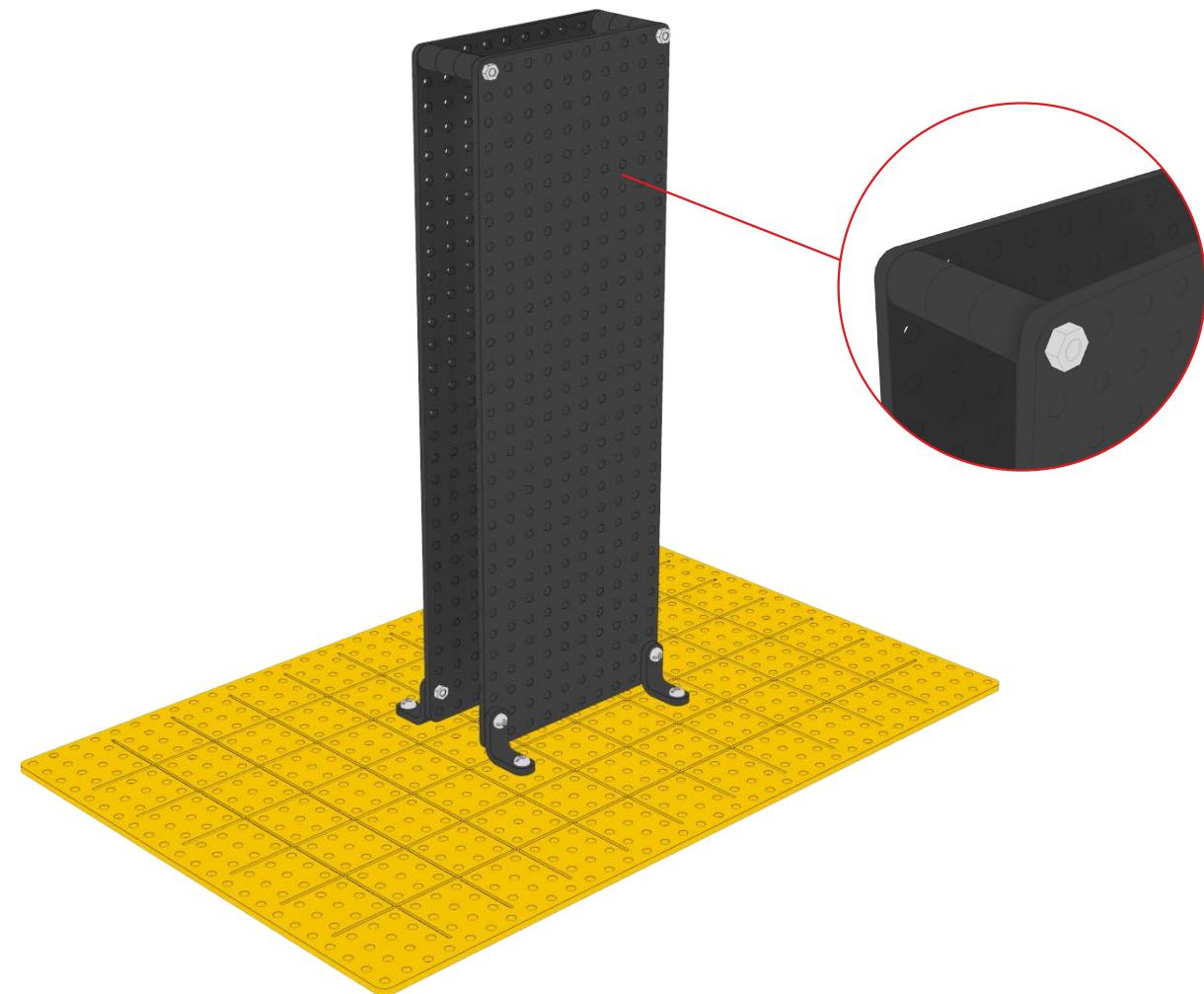
2 Tornillo 35 mm



10 Tuerca hexagonal

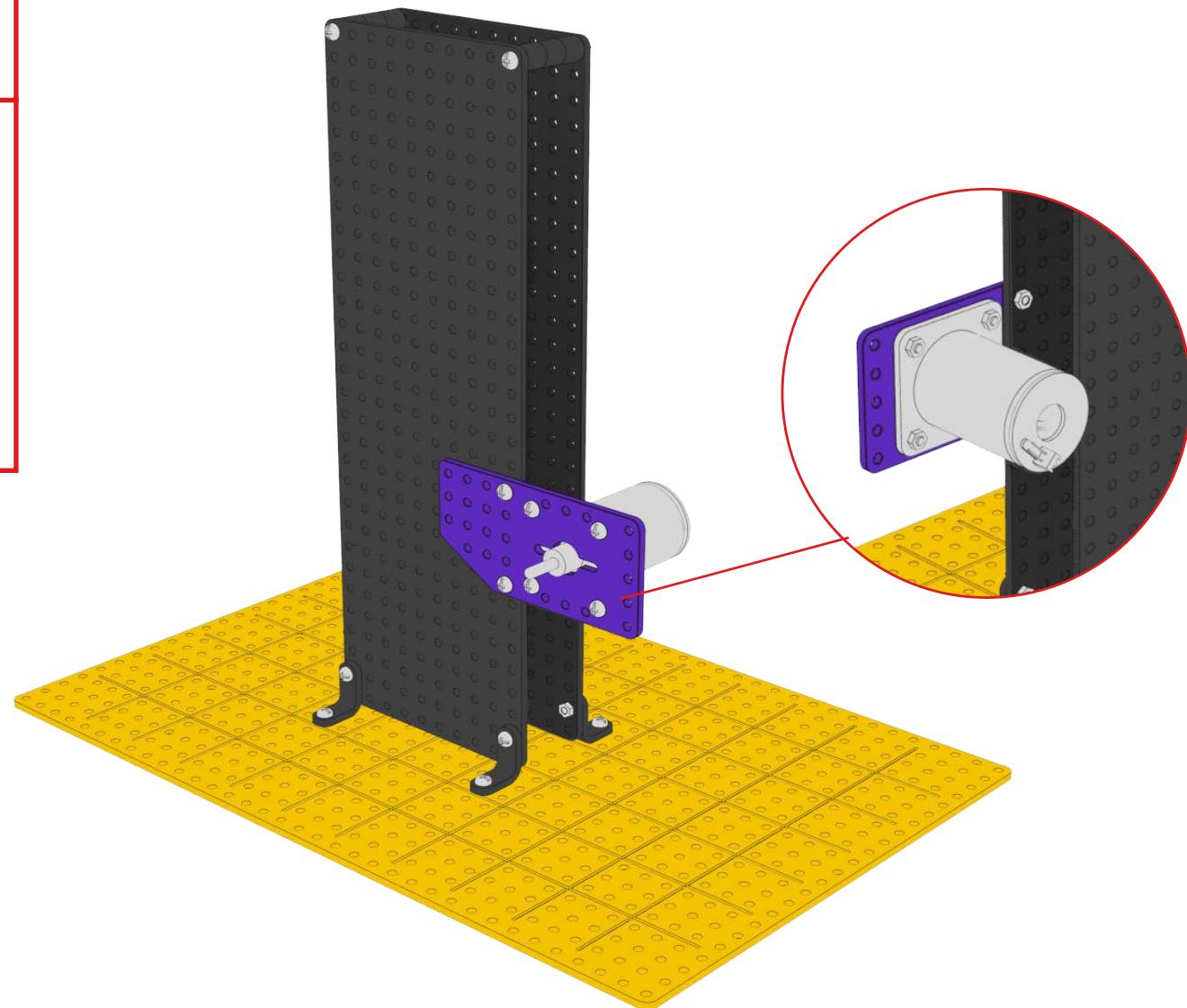


6 Separadores de goma
9mm



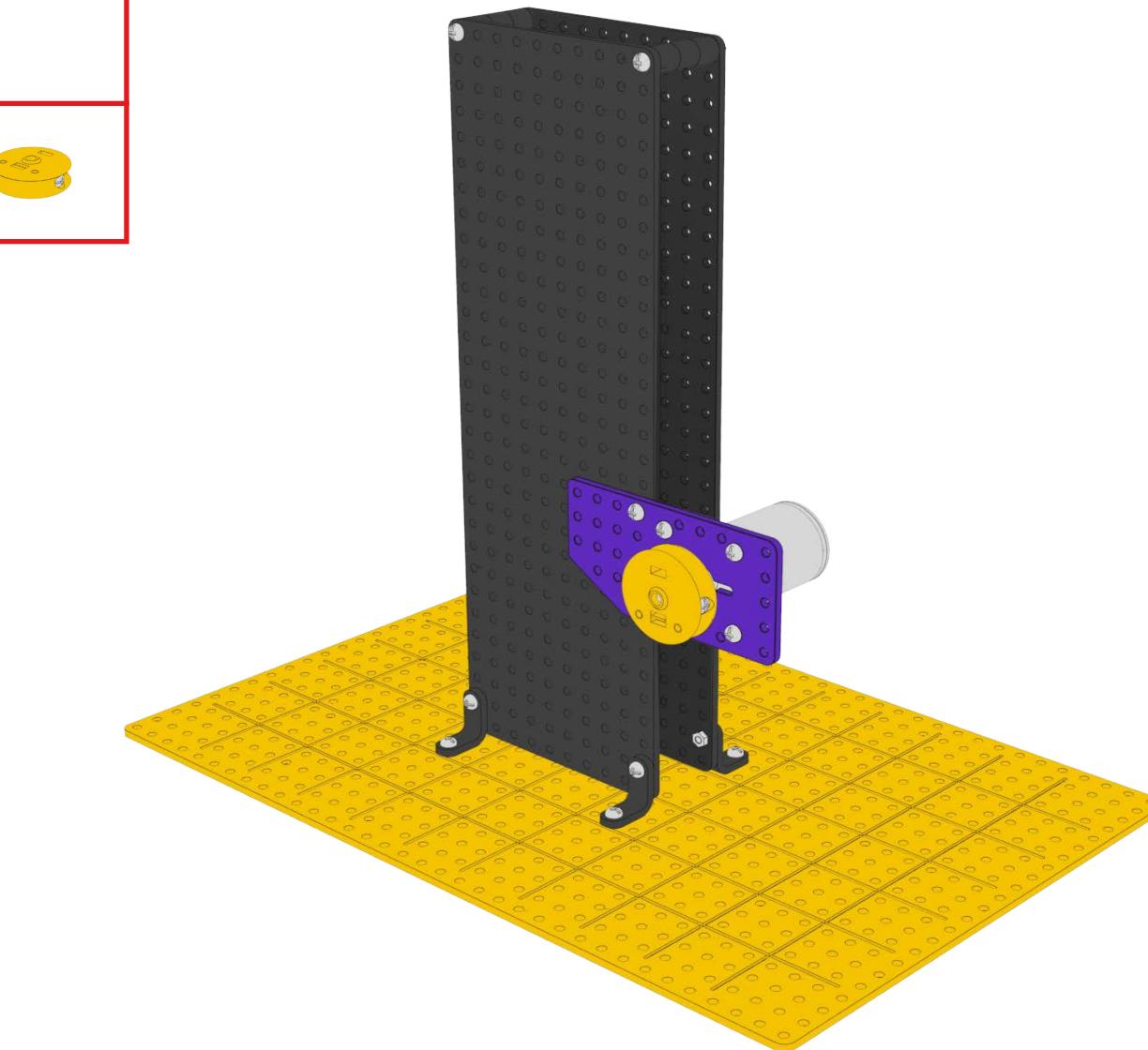
Paso 2

- 1 Soporte de motor 
- 1 Motor 
- 6 Tornillo 8 mm 
- 6 Tuerca hexagonal 



Paso 3

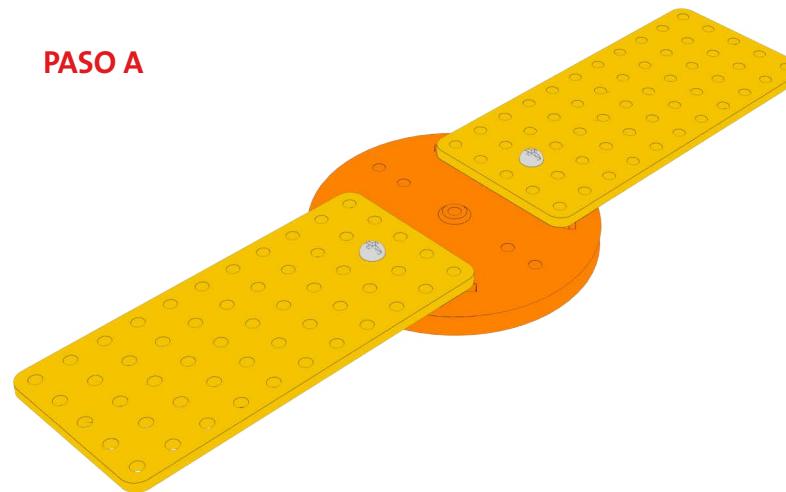
1 Polea chica amarilla



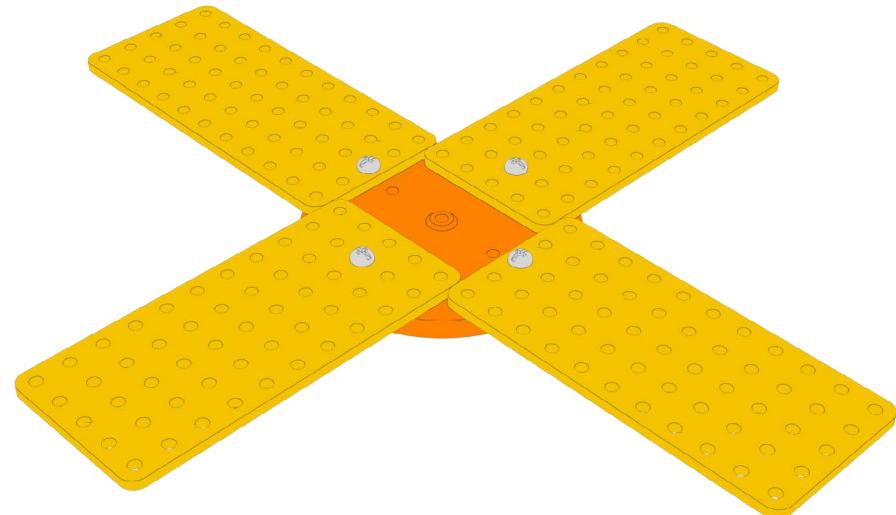
Paso 4

- 4** Plancha 11x5 
- 1** Polea grande naranja 
- 4** Tornillo 16 mm 
- 4** Tuerca hexagonal 

PASO A



PASO B



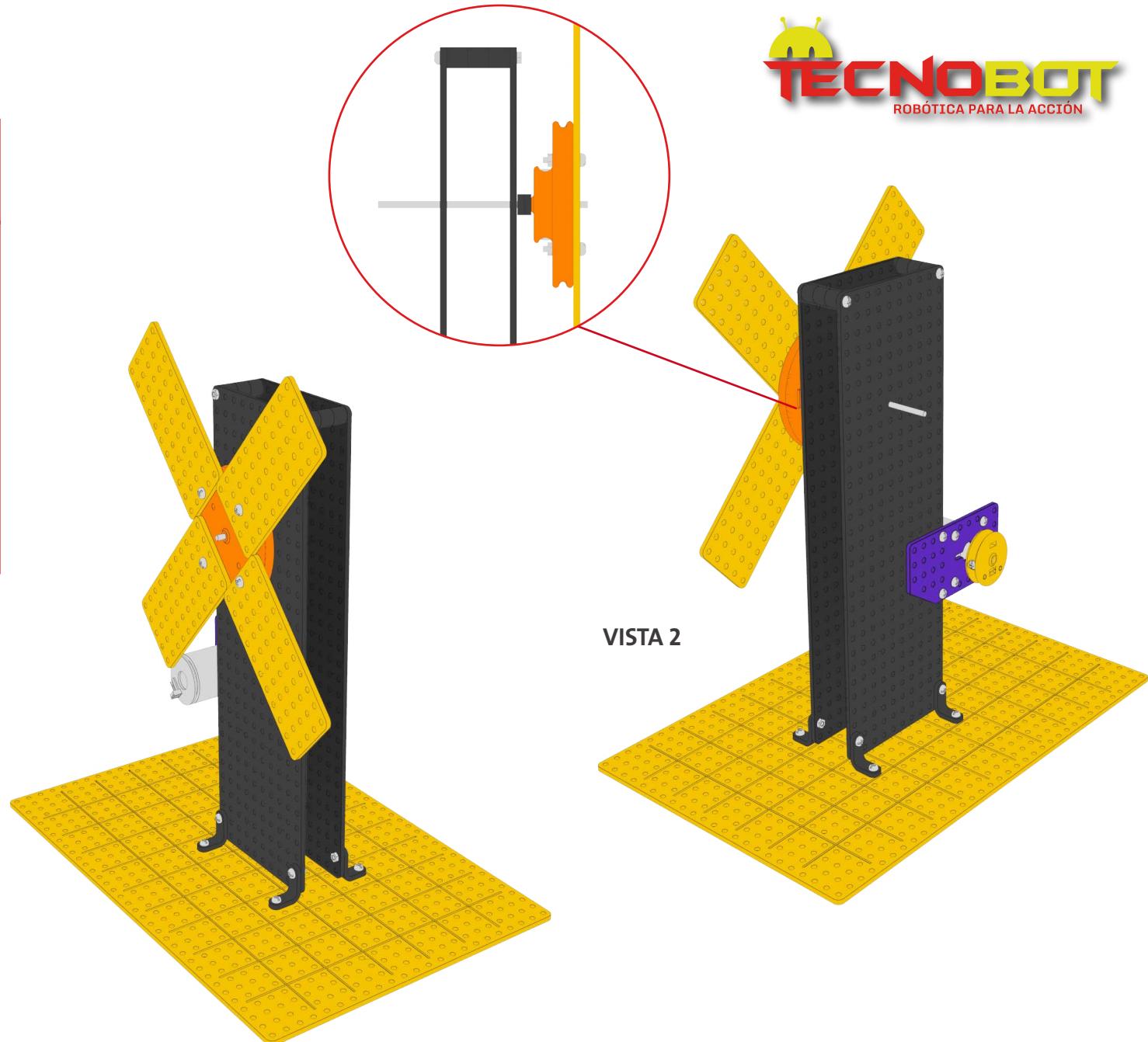
Paso 5

Unir armados de PASO 3 + 4

1 Eje 9



2 Separadores de goma
3mm

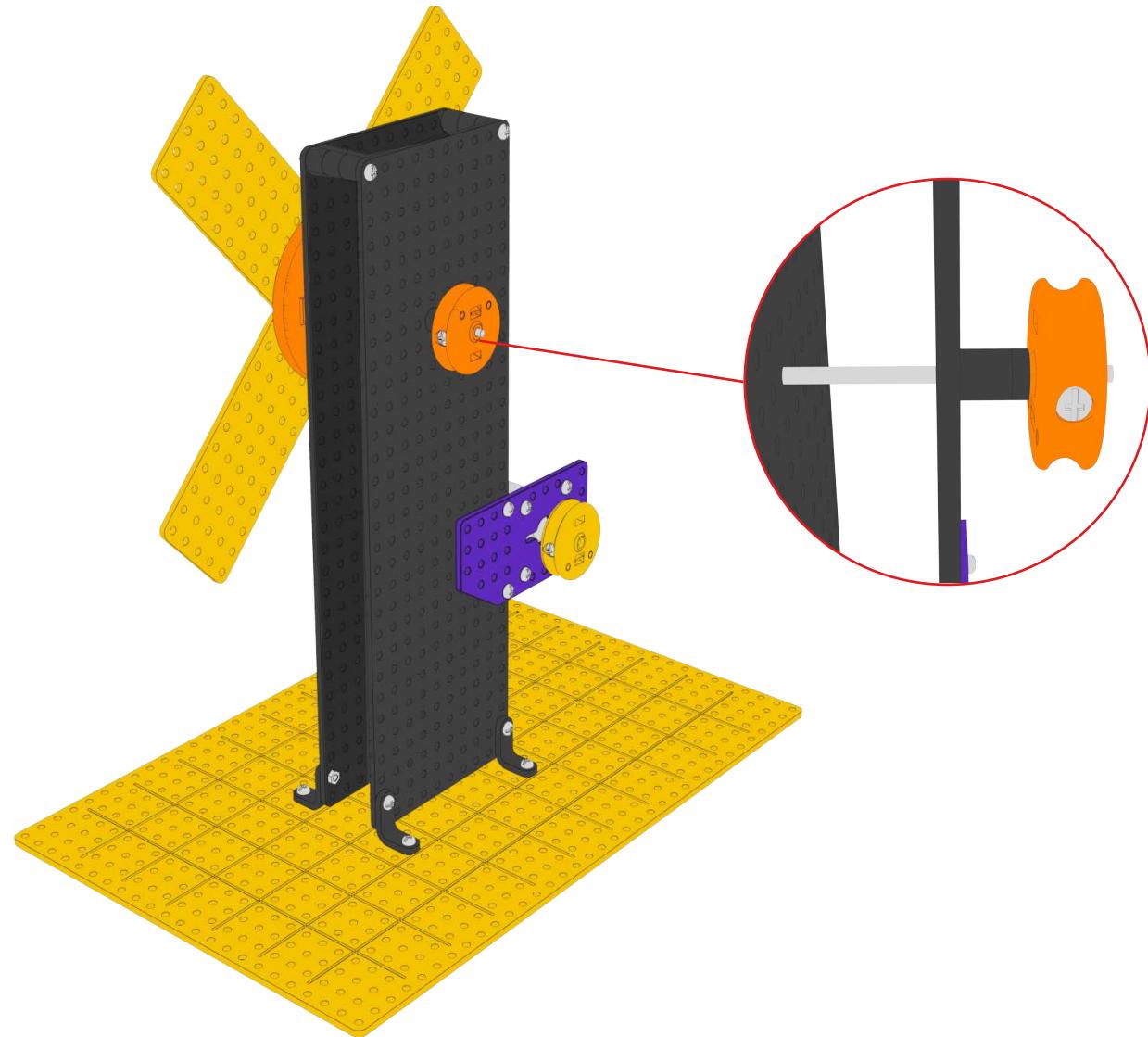


VISTA 1

VISTA 2

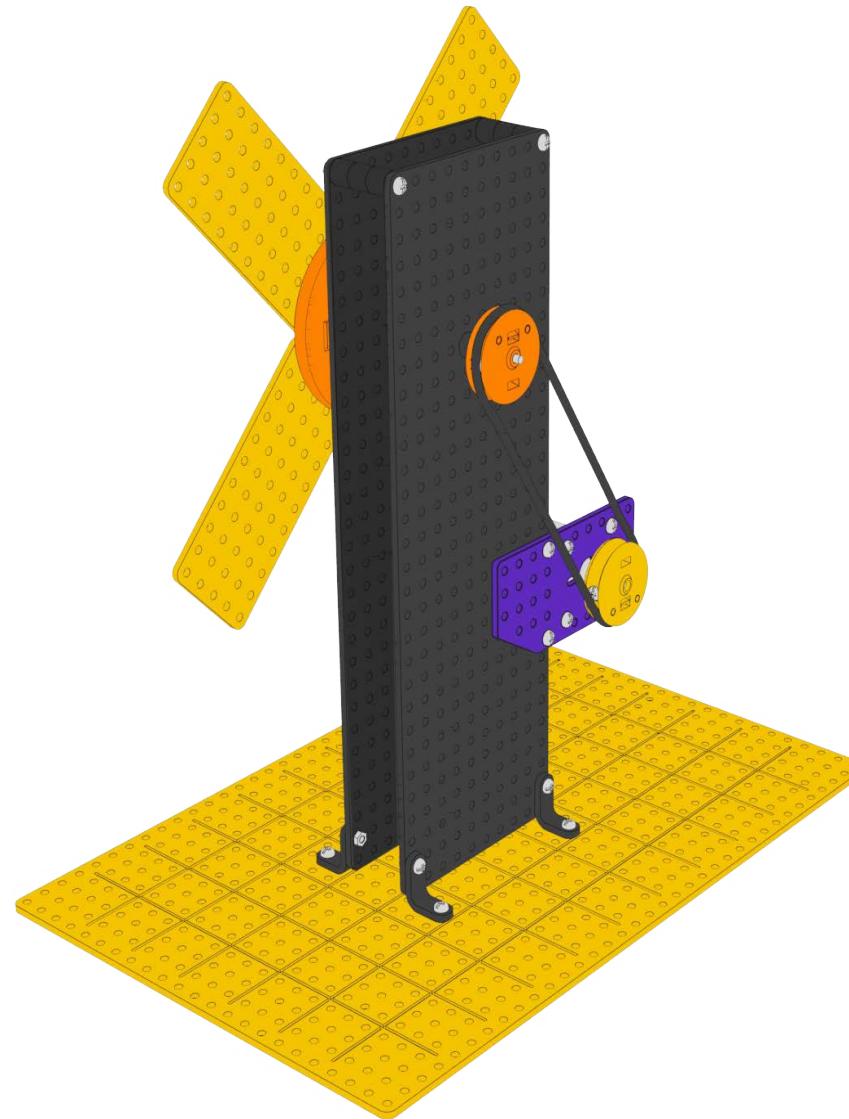
Paso 6

- 1 Separadores de goma 3mm
- 1 Separadores de goma 9mm
- 1 Polea chica naranja



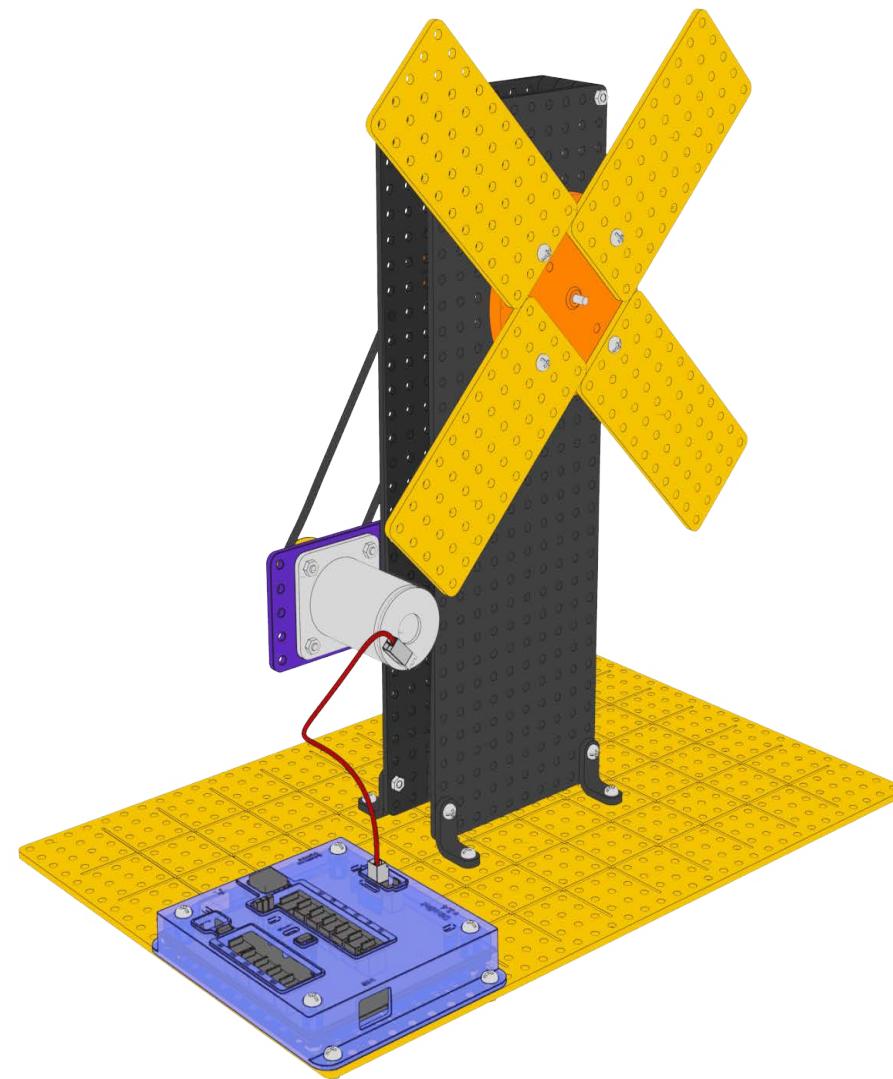
Paso 7

1 O-ring 154

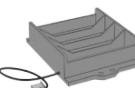


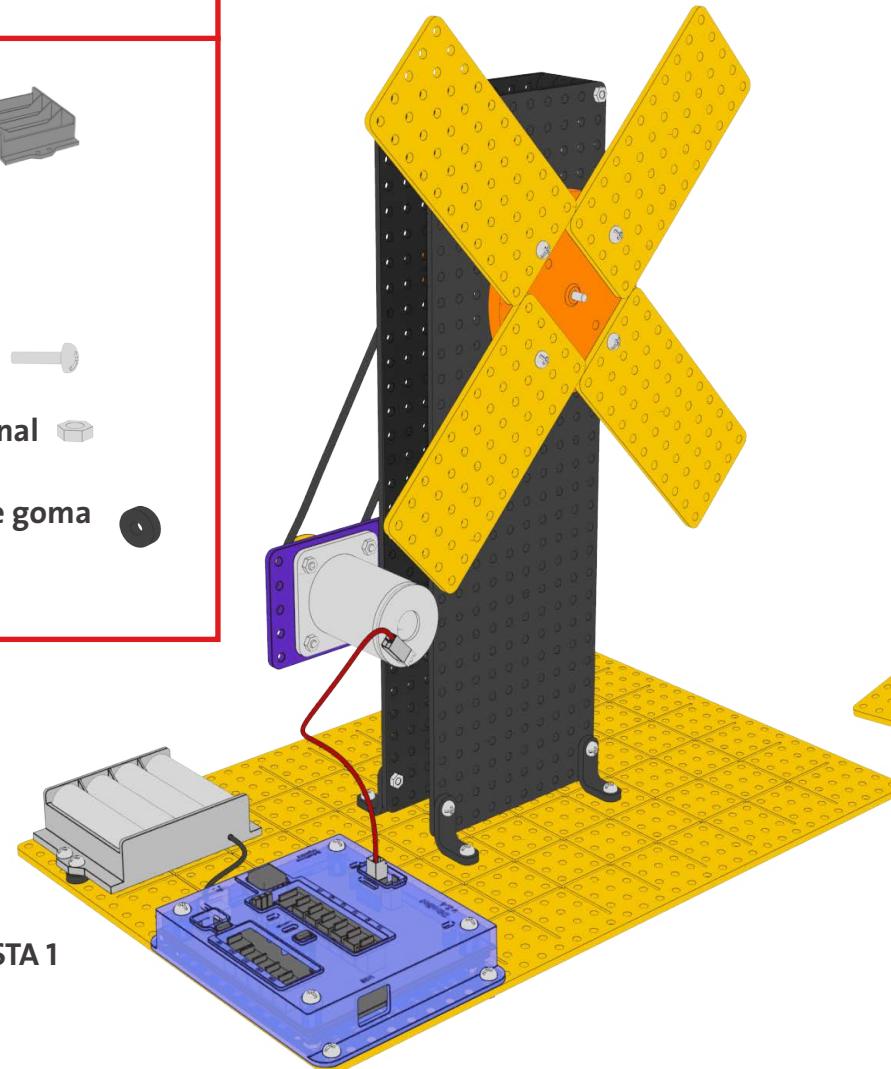
Paso 8

- 1 Placa 
- 1 Cable de motor 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 

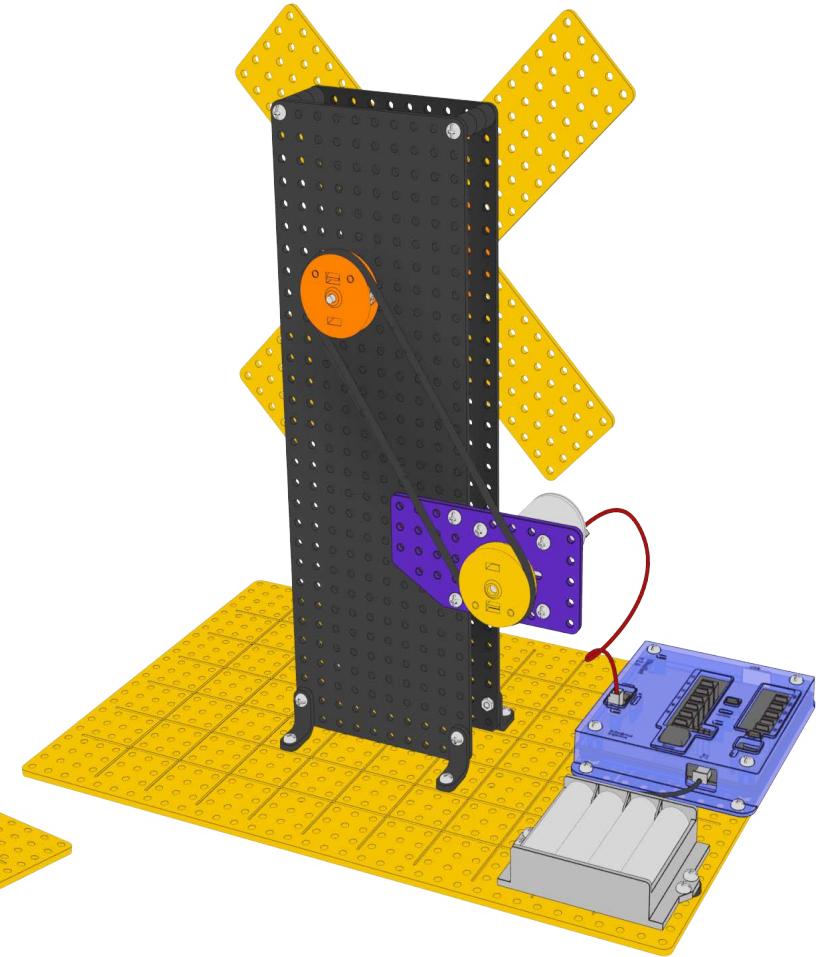


Paso 9

- 1 Portapilas 
- 4 Pilas 
- 2 Tornillo 12 mm 
- 2 Tuerca hexagonal 
- 2 Separadores de goma 3mm 

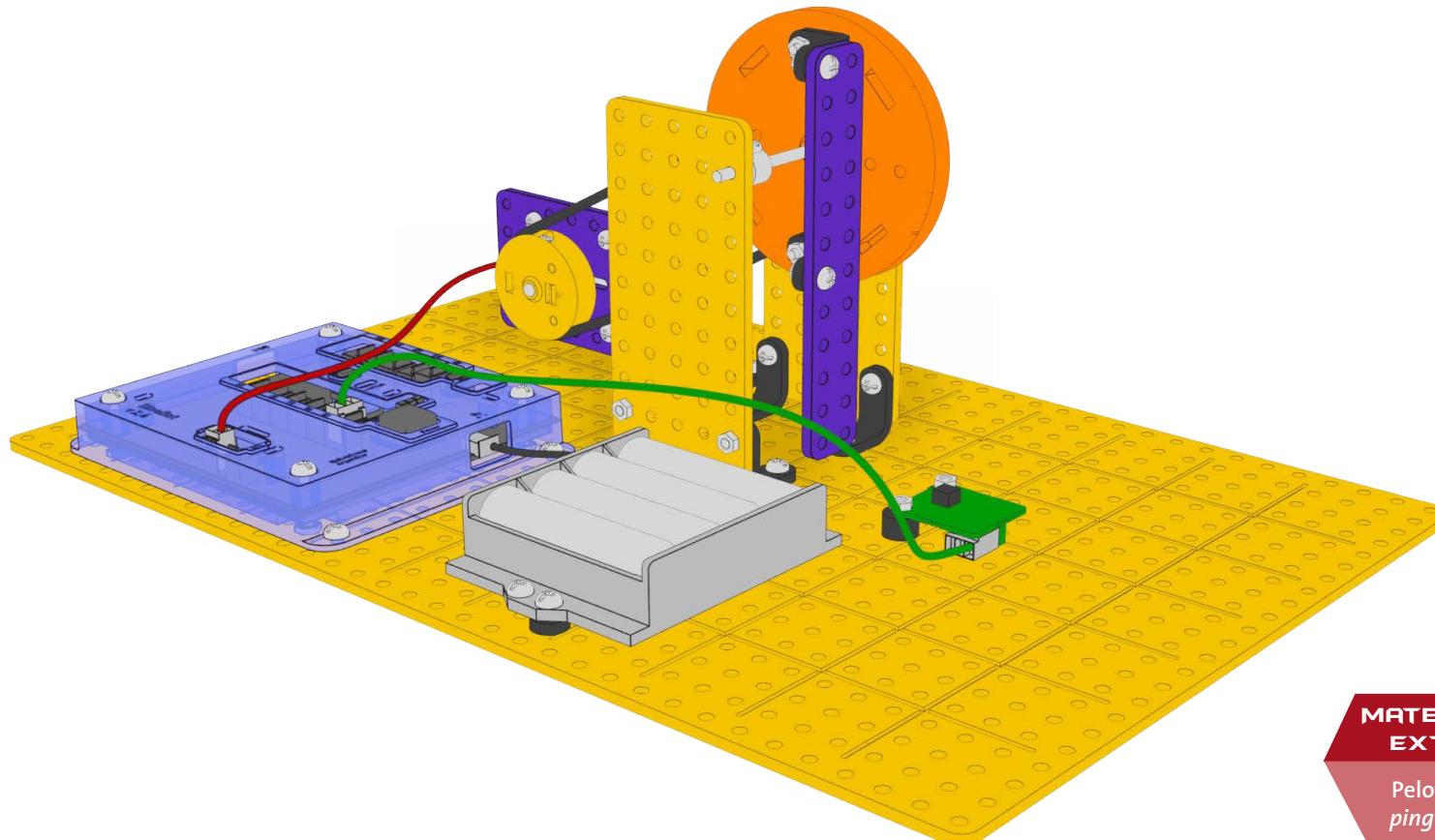


VISTA 1



VISTA 2

Secuencia de armado de un pateador con sensor

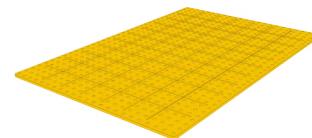


MATERIAL
EXTRA

Pelota de
ping-pong

Paso 1

1 Plancha 35x23



2 Plancha 11x5



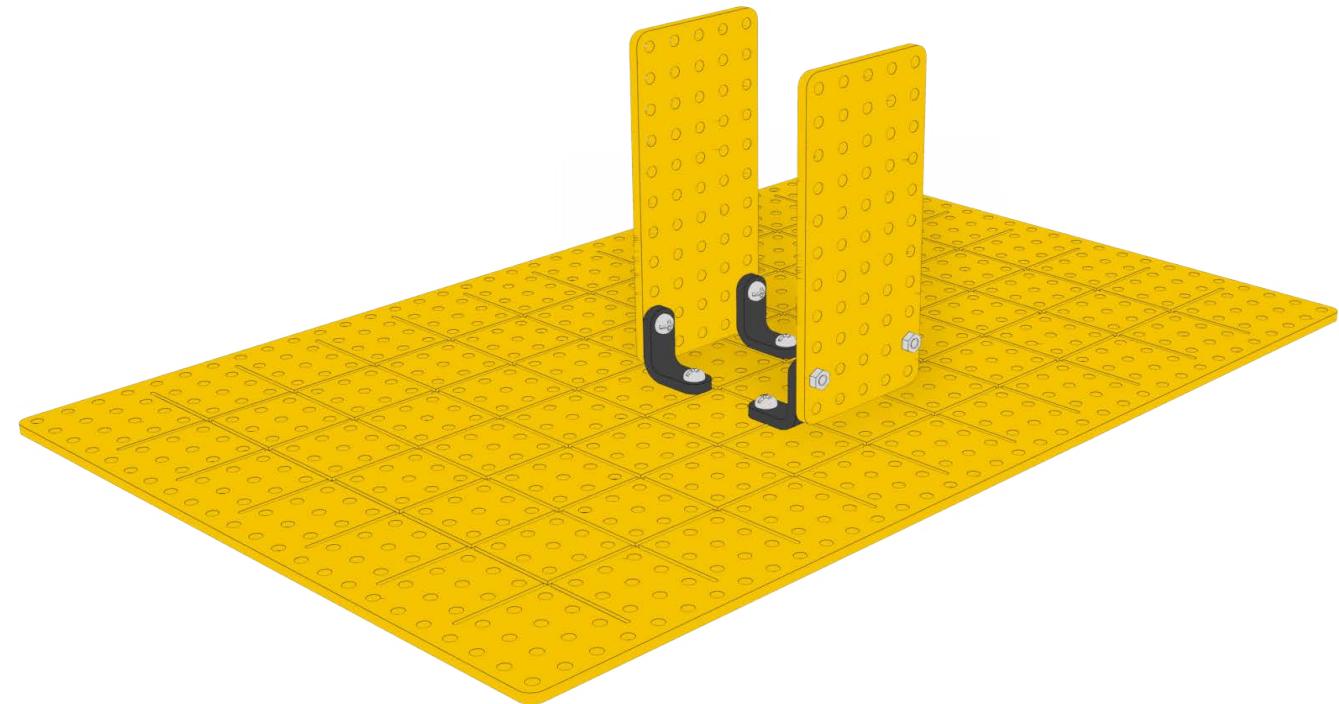
4 L



4 Tornillo 8 mm



4 Tuerca hexagonal



Paso 2

1 Polea grande naranja



1 Plancha 12x2



2 L



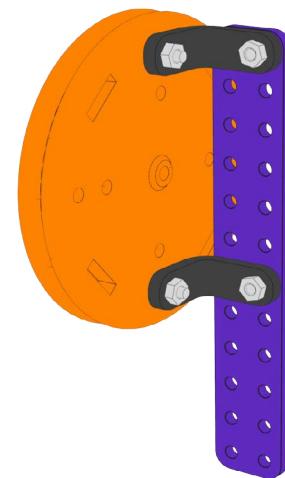
2 Tornillo 16 mm



2 Tornillo 8 mm



4 Tuerca hexagonal



Paso 3

Unir armados de PASO 1 + 2

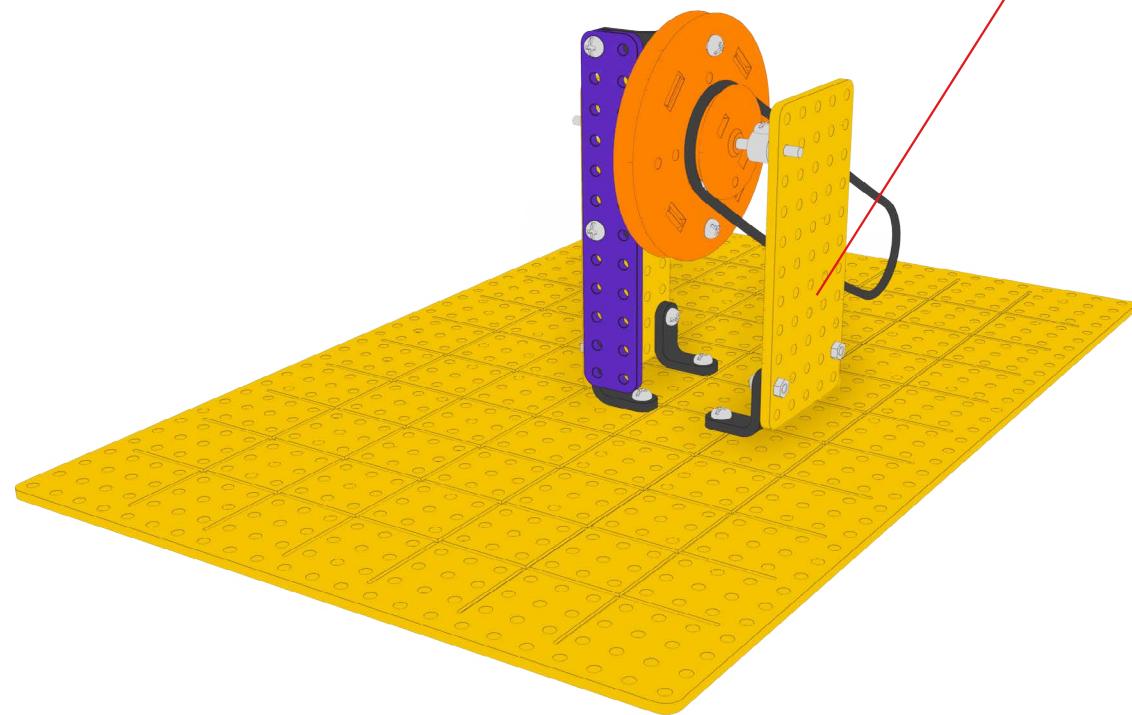
1 Eje 7,2



2 Ajuste de eje

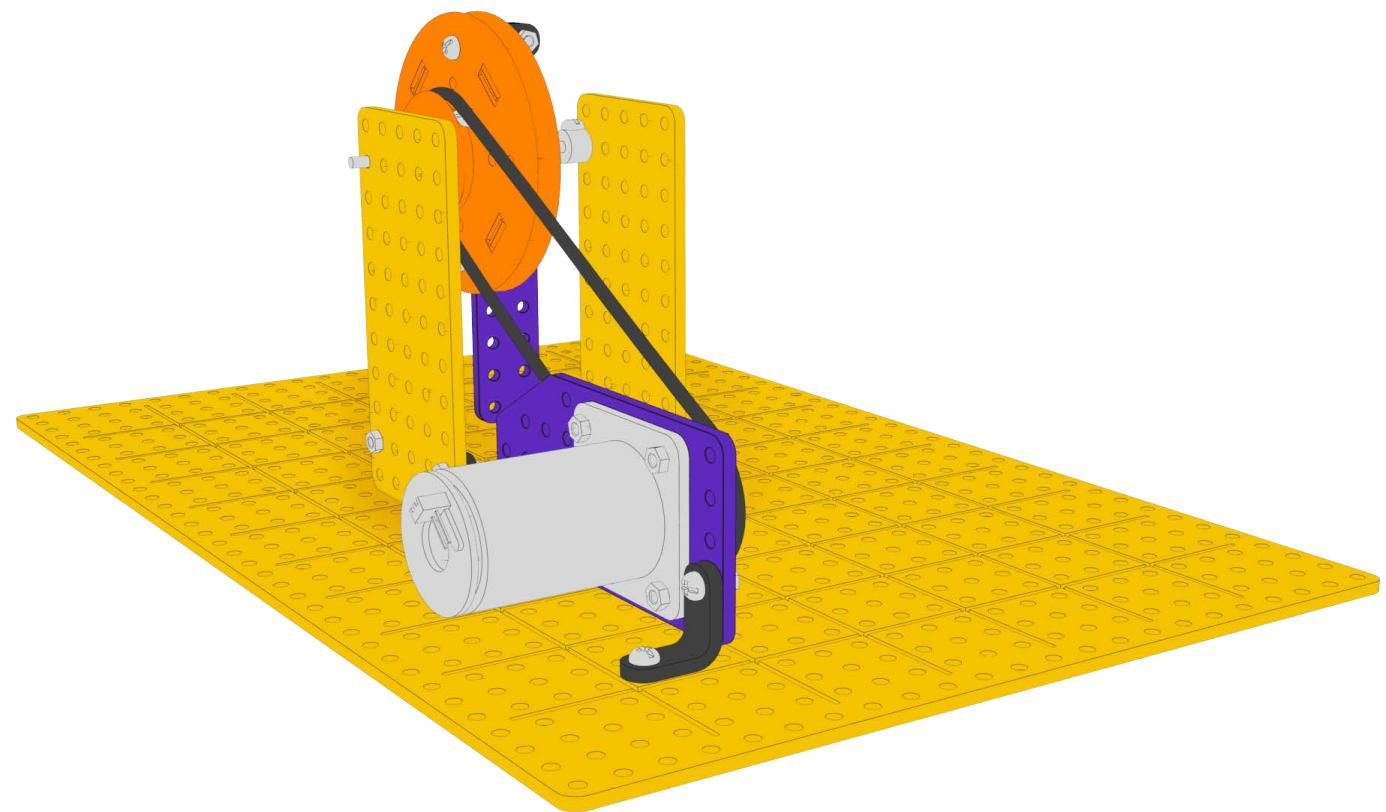


1 O-ring 154



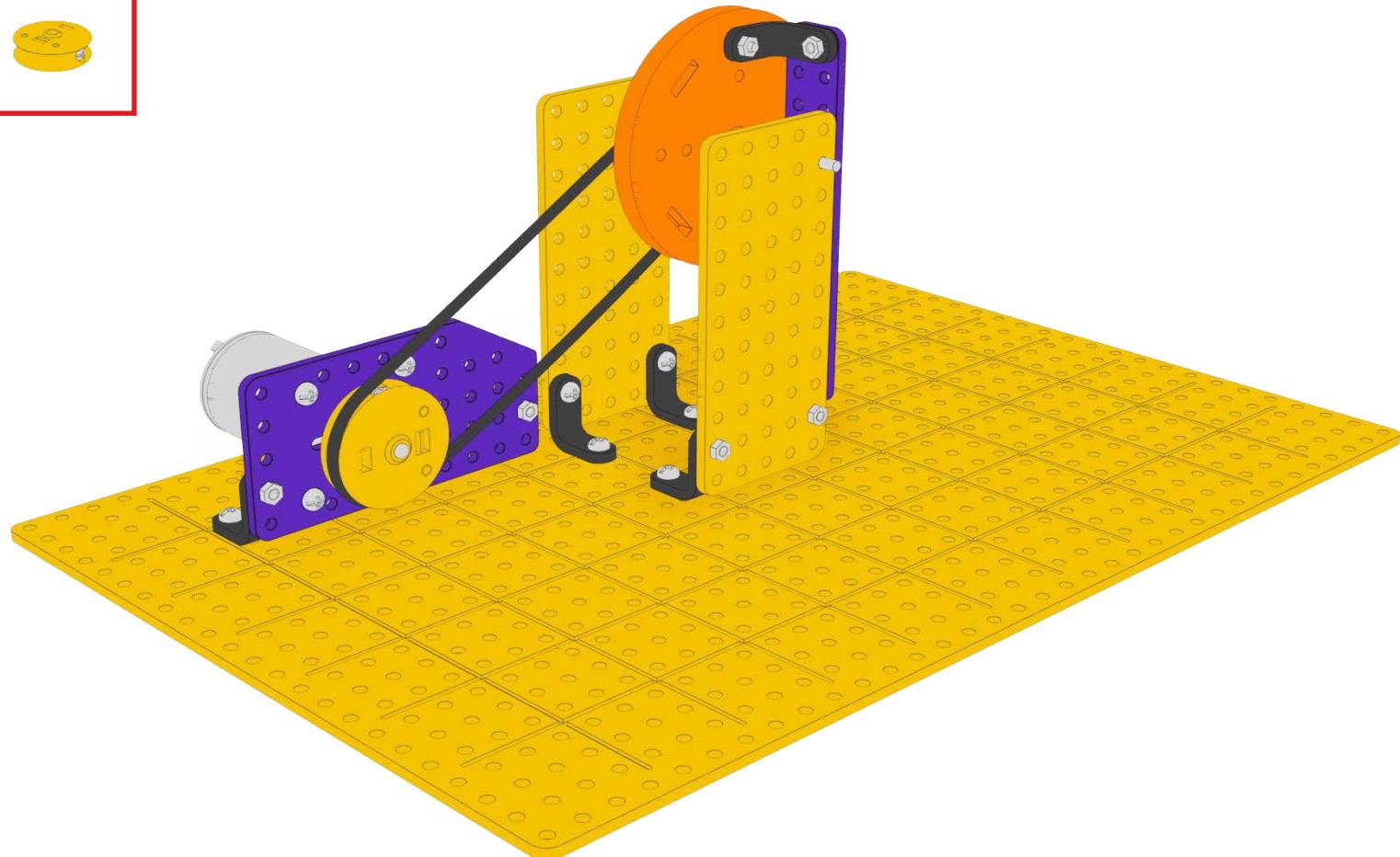
Paso 4

- 1 Soporte de motor 
- 1 Motor 
- 8 Tornillo 8 mm 
- 8 Tuerca hexagonal 
- 2 L 



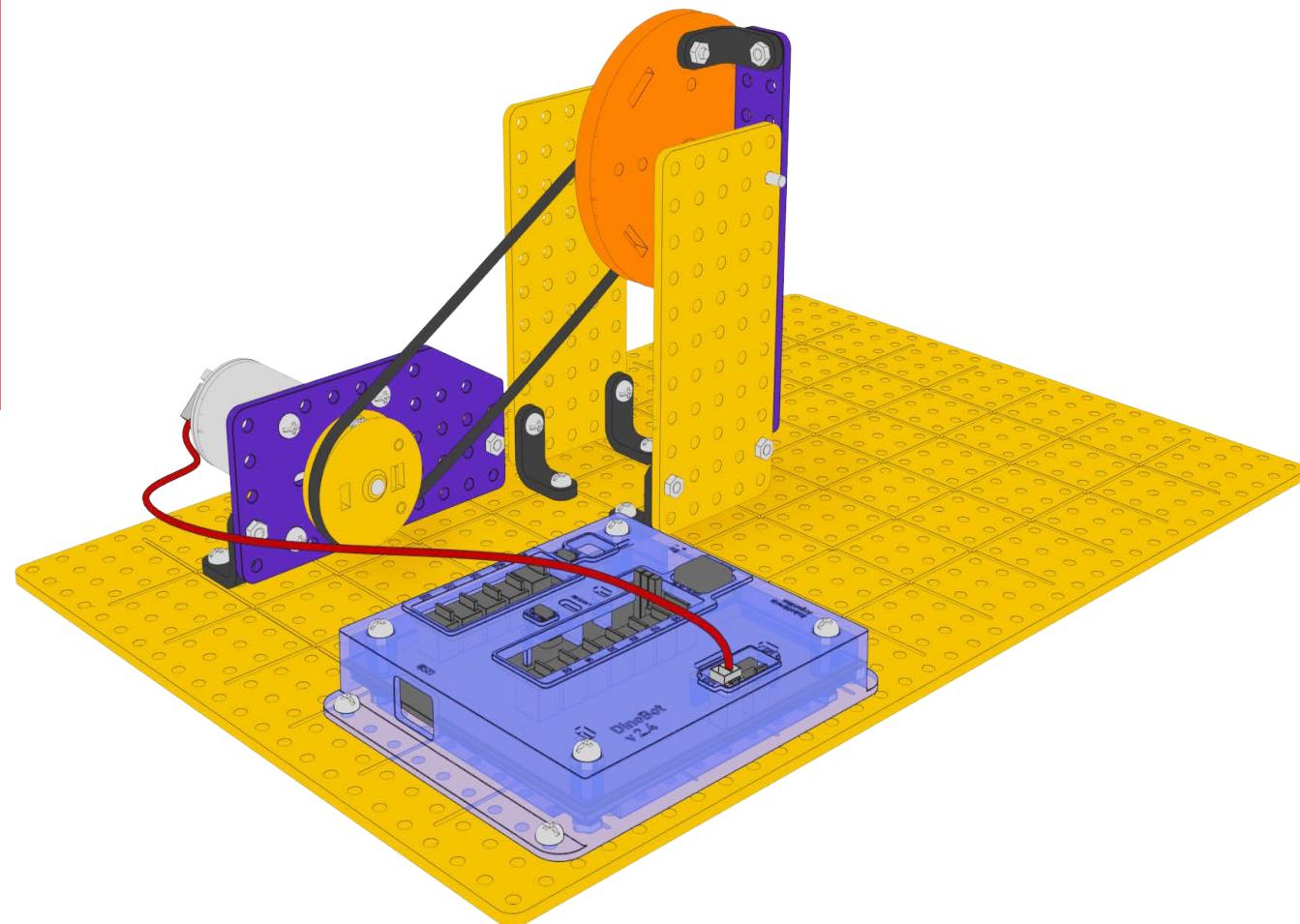
Paso 5

- 1 Polea chica amarilla 



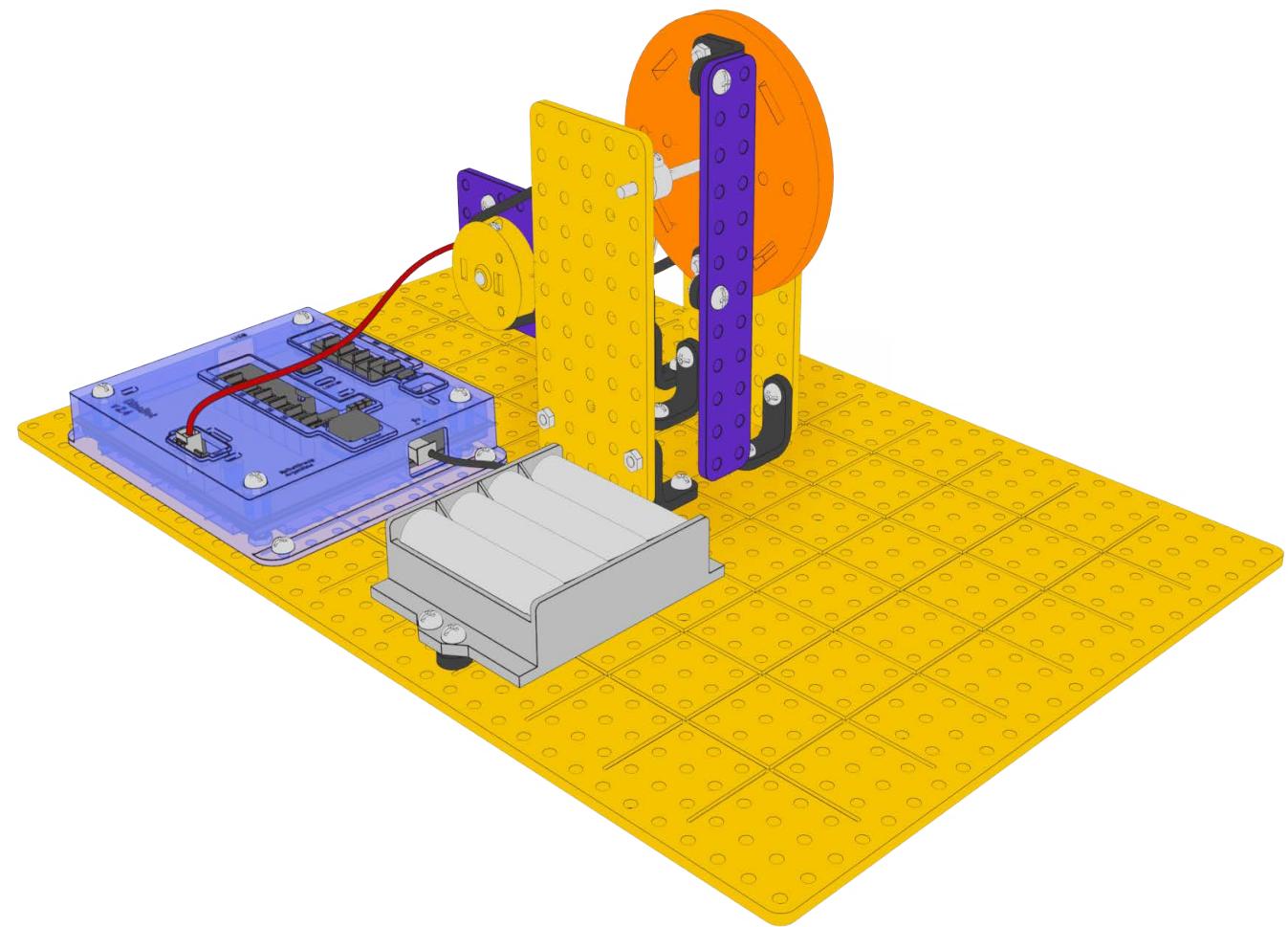
Paso 6

- 1 Placa 
- 1 Cable de motor 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 



Paso 7

- 1 Portapilas 
- 4 Pilas 
- 2 Tornillo 12 mm 
- 2 Tuerca hexagonal 
- 2 Separadores de goma 3mm 



Paso 8

- 1 Sensor IR - CNY70
(infrarrojo)



- 1 Cable de sensor



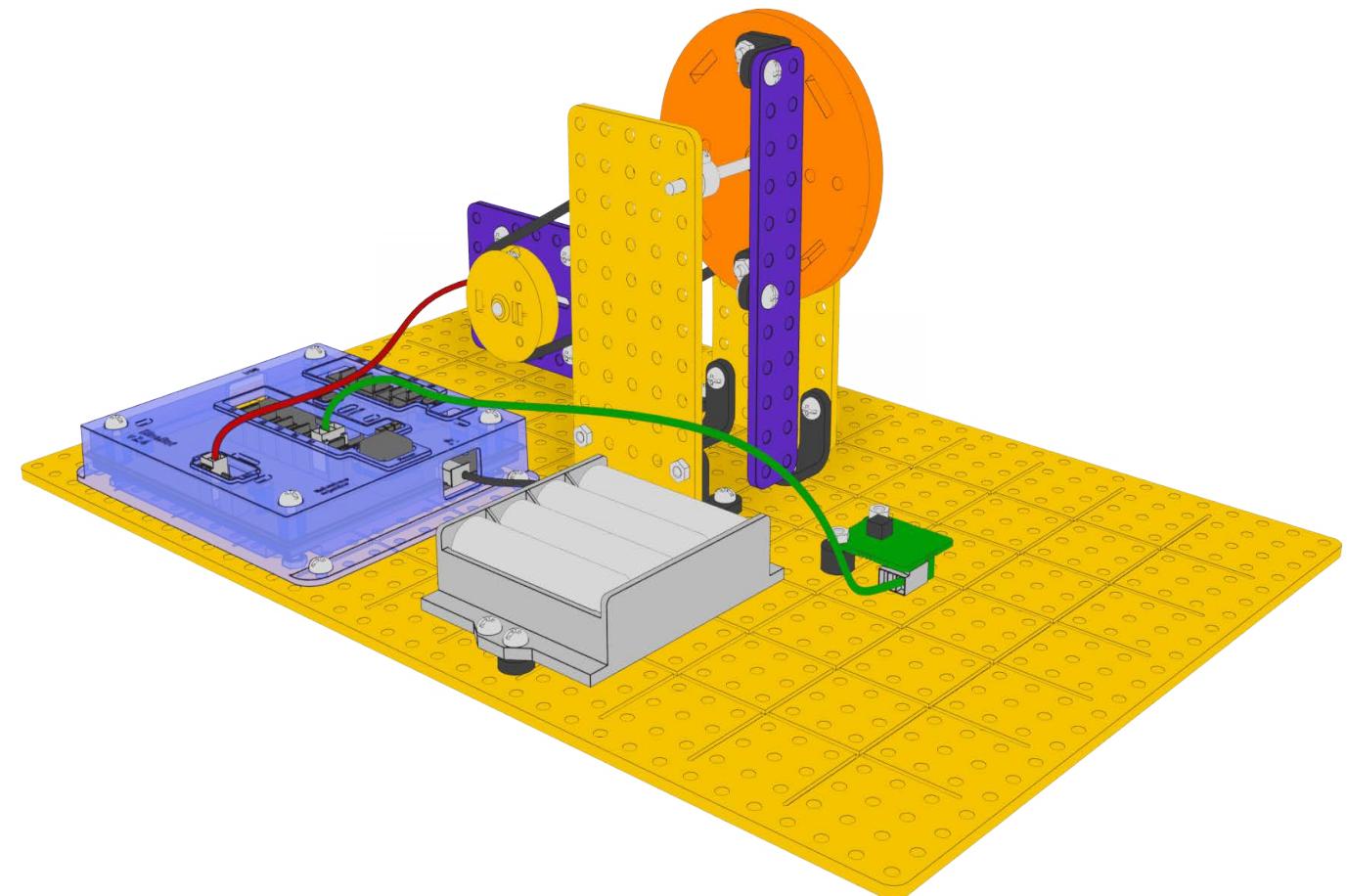
- 2 Tornillo 12 mm



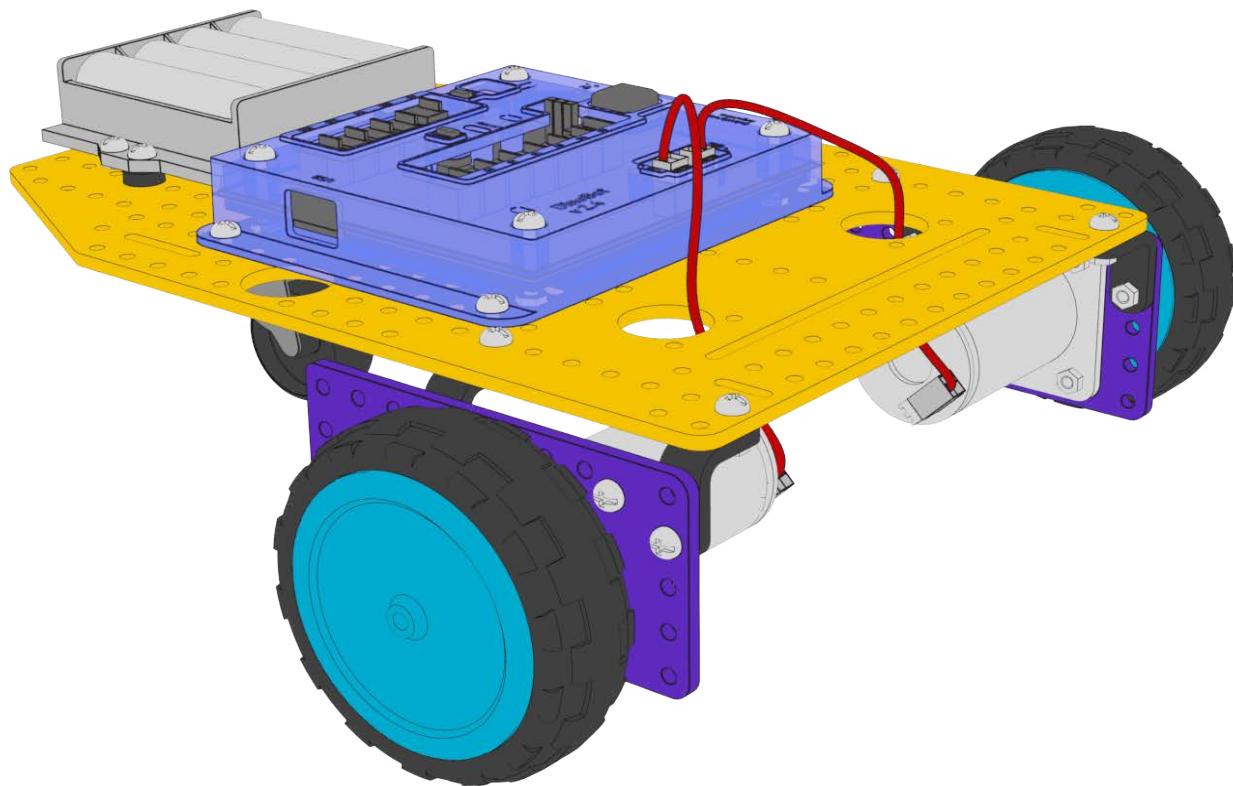
- 2 Tuerca hexagonal



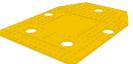
- 4 Separadores de goma
3mm

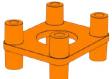


Secuencia de armado de tu primer robot



Paso 1

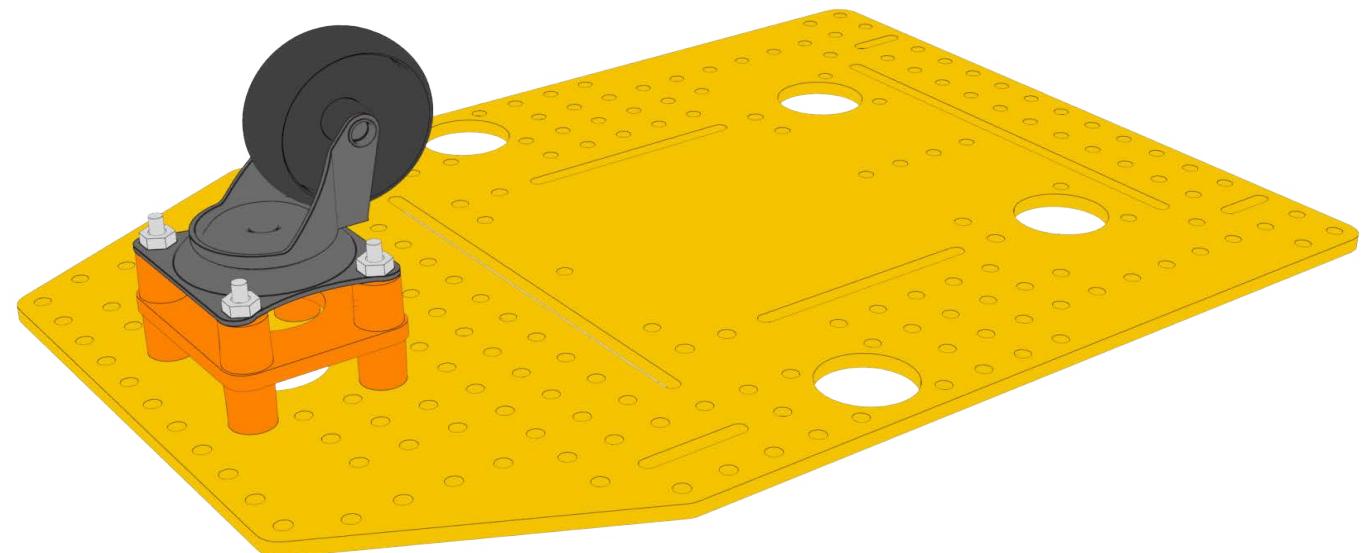
1 Chasis 

1 Soporte de rueda loca 

1 Rueda loca 

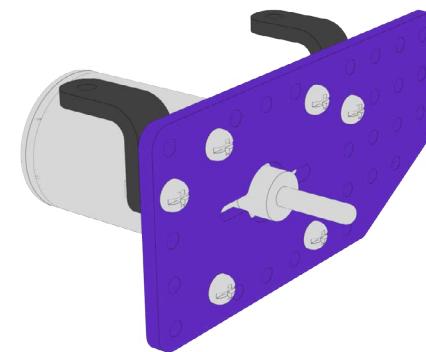
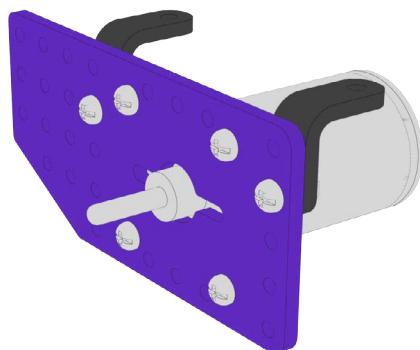
4 Tornillo 30 mm 

4 Tuerca hexagonal 



Paso 2

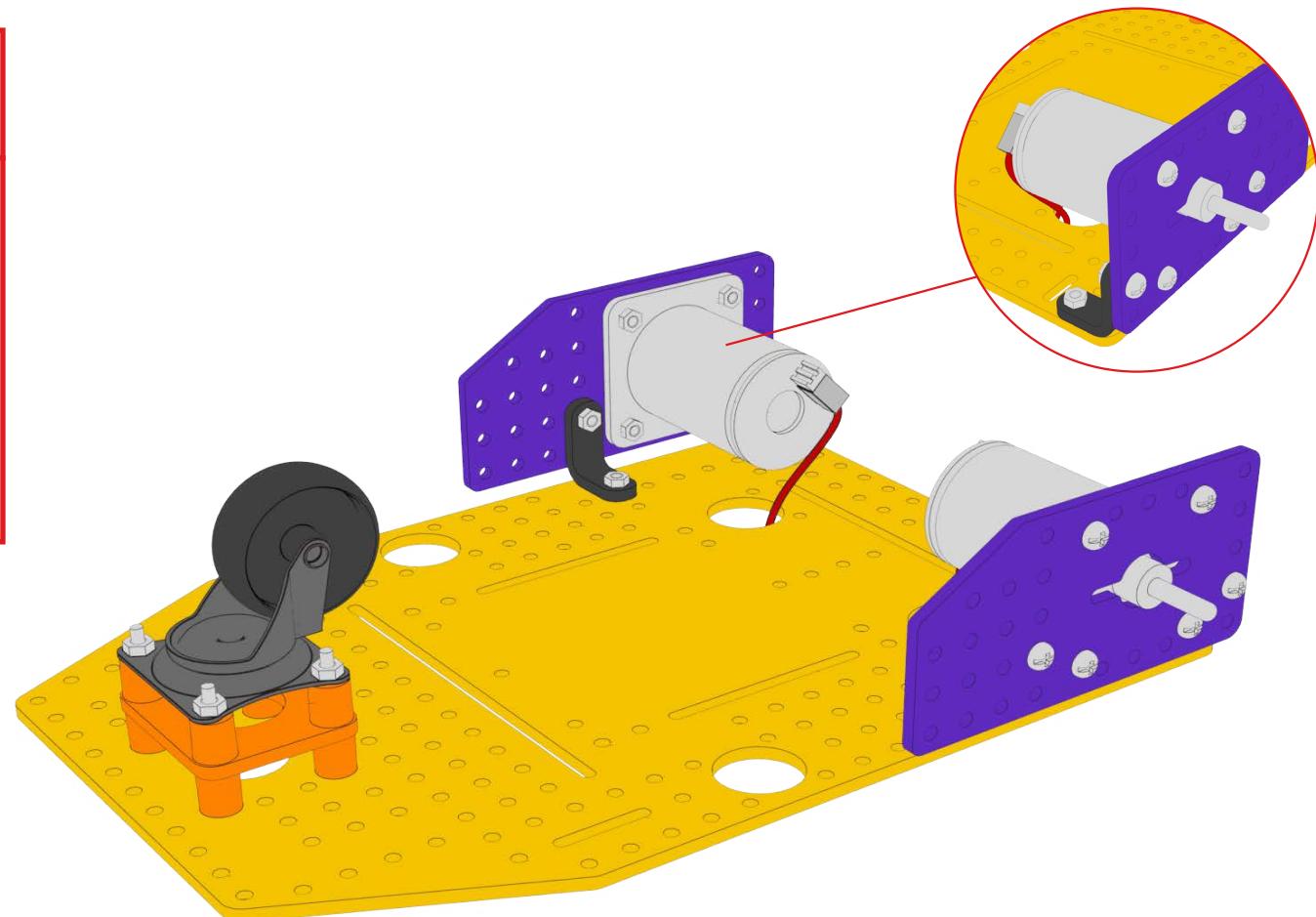
- 2 Soporte de motor 
- 12 Tornillo 8 mm 
- 12 Tuerca hexagonal 
- 4 L 
- 2 Motor 



Paso 3

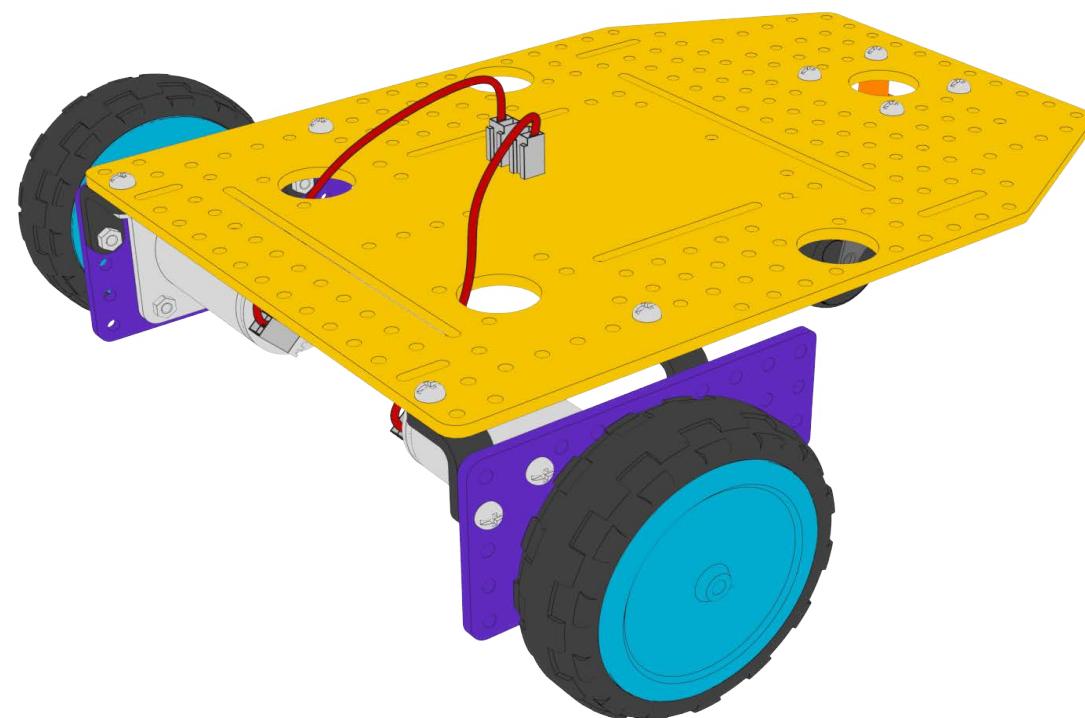
Unir armados de PASO 1 + 2

- 2** Cable de motor 
- 4** Tornillo 8 mm 
- 4** Tuerca hexagonal 



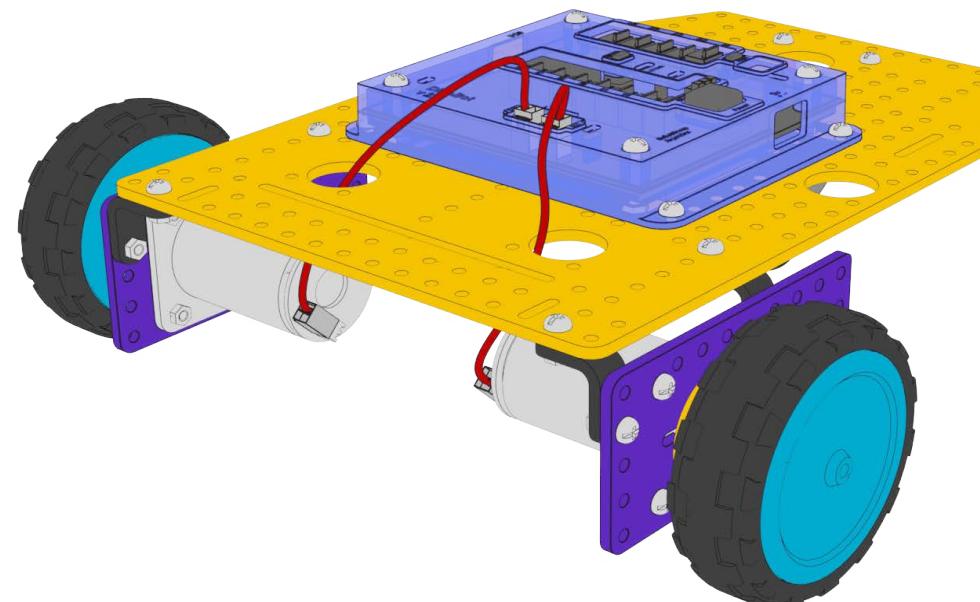
Paso 4

2 Rueda



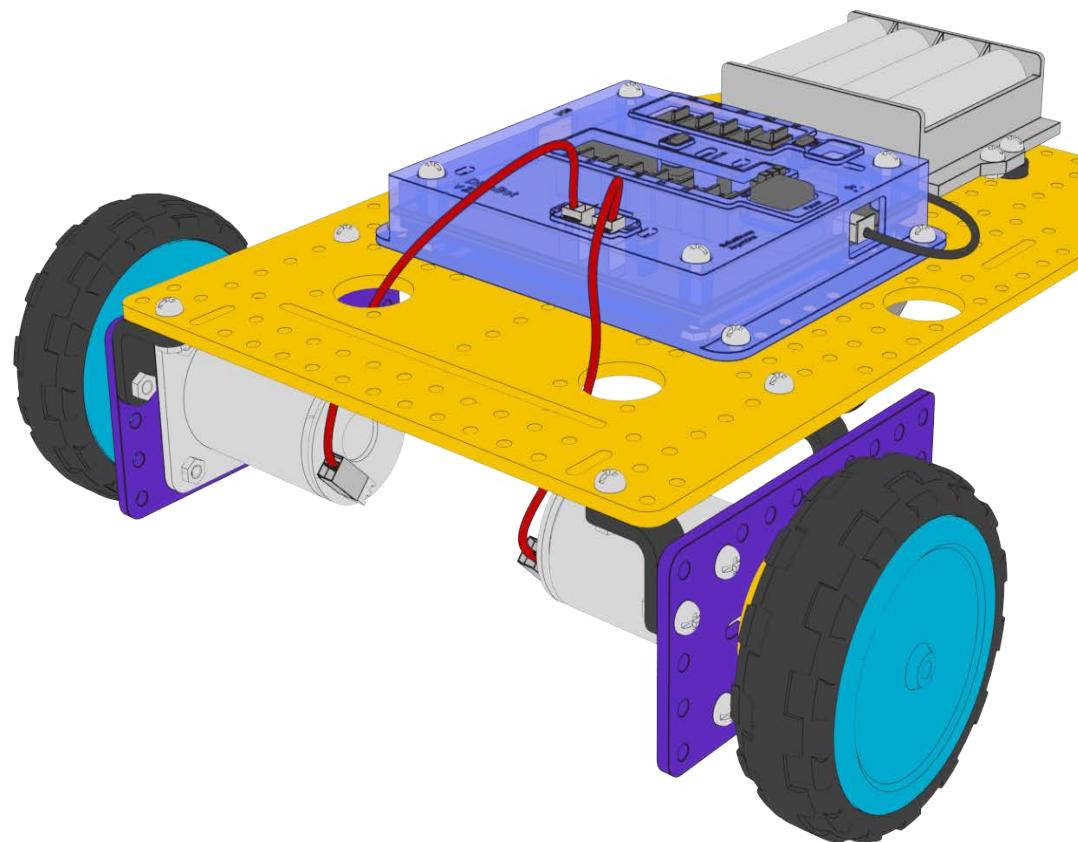
Paso 5

- 1 Placa 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 

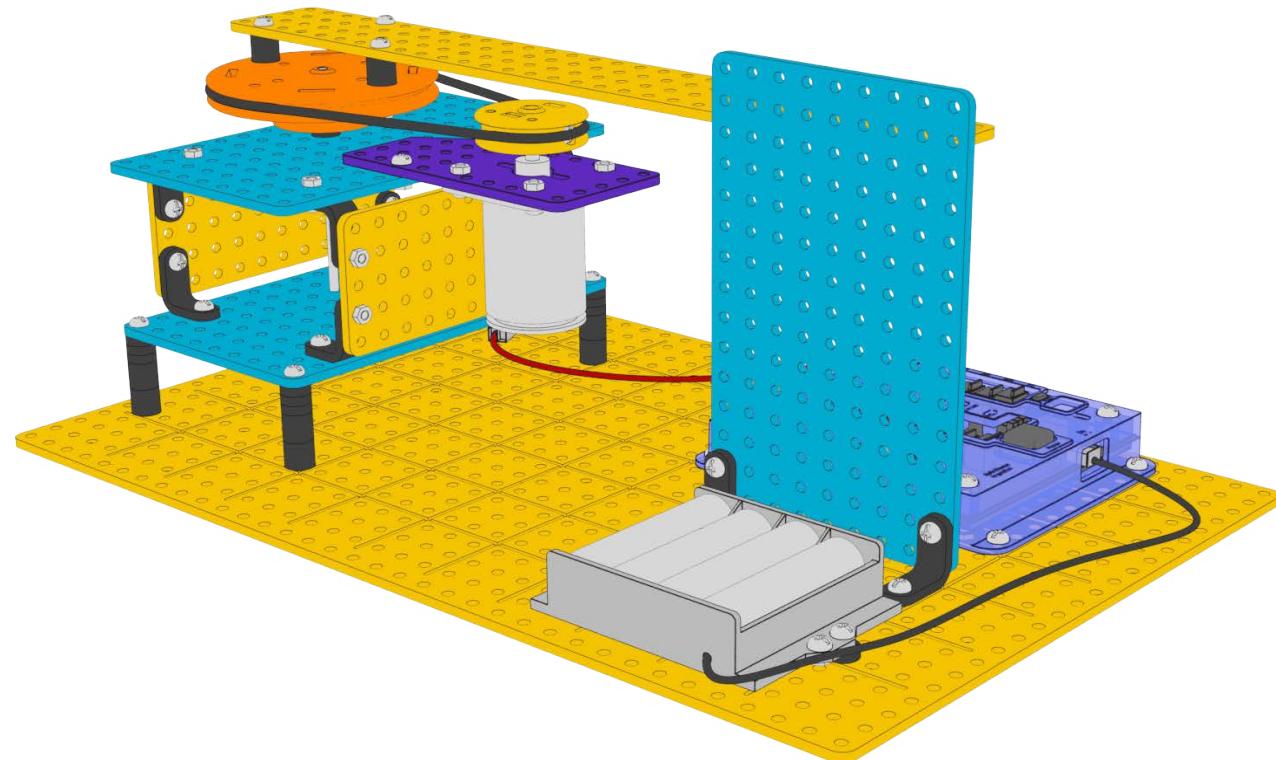


Paso 8

- 1 Portapilas
- 4 Pilas
- 2 Tornillo 12 mm
- 2 Tuerca hexagonal

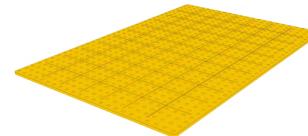


Secuencia de armado de un puente móvil



Paso 1

1 Plancha 35x23



1 Plancha 9x15



12 Separadores de goma
3mm



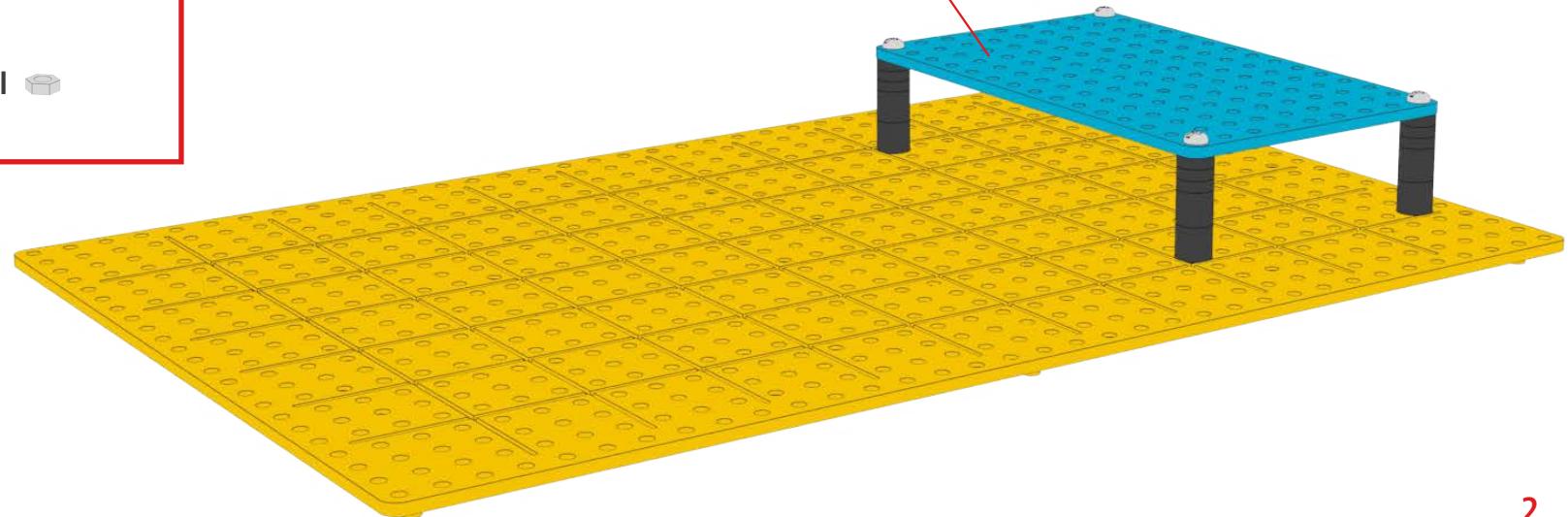
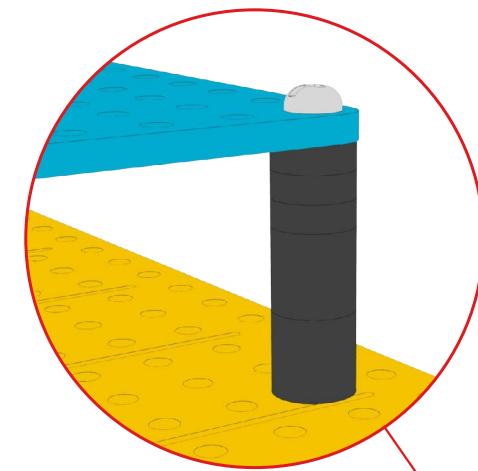
8 Separadores de goma
9mm



4 Tornillo 35 mm

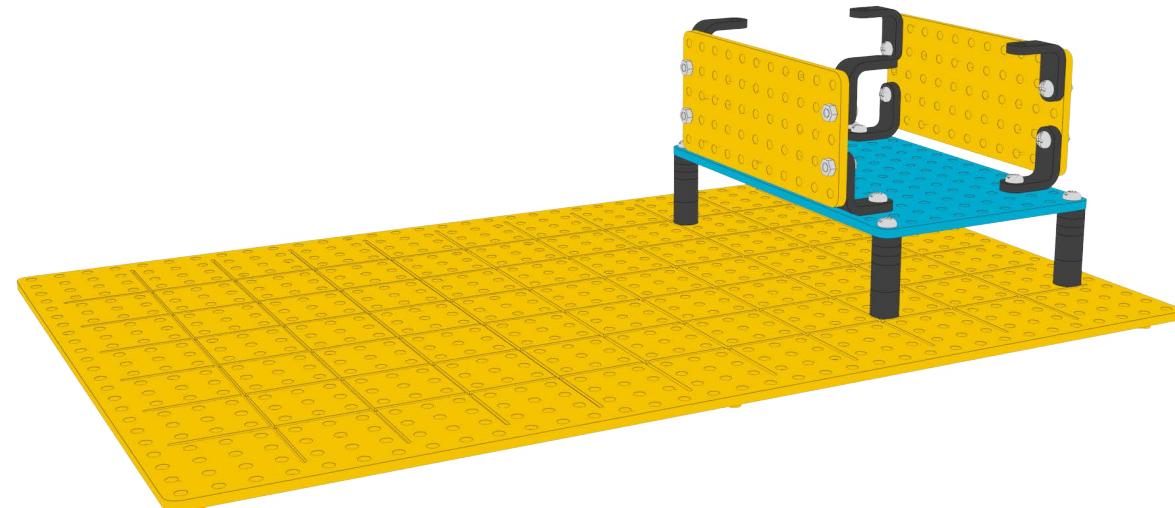


4 Tuerca hexagonal



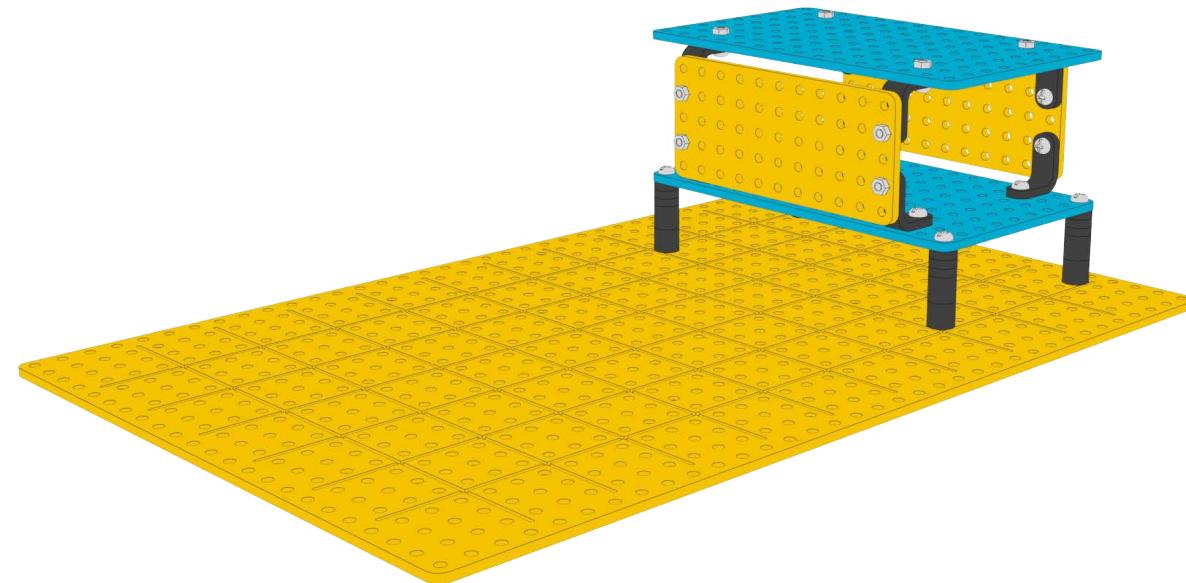
Paso 2

- 2 Plancha 11x5 
- 8 L 
- 12 Tornillo 8 mm 
- 12 Tuerca hexagonal 



Paso 3

- 1 Plancha 9x15 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 



Paso 4

1 Soporte de motor



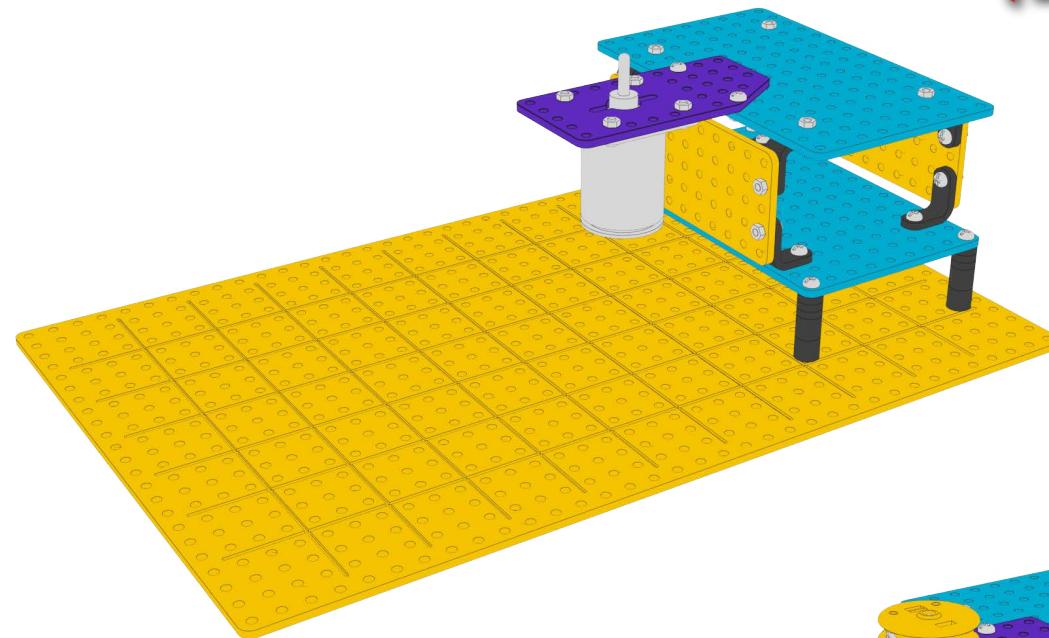
1 Motor



6 Tornillo 8 mm

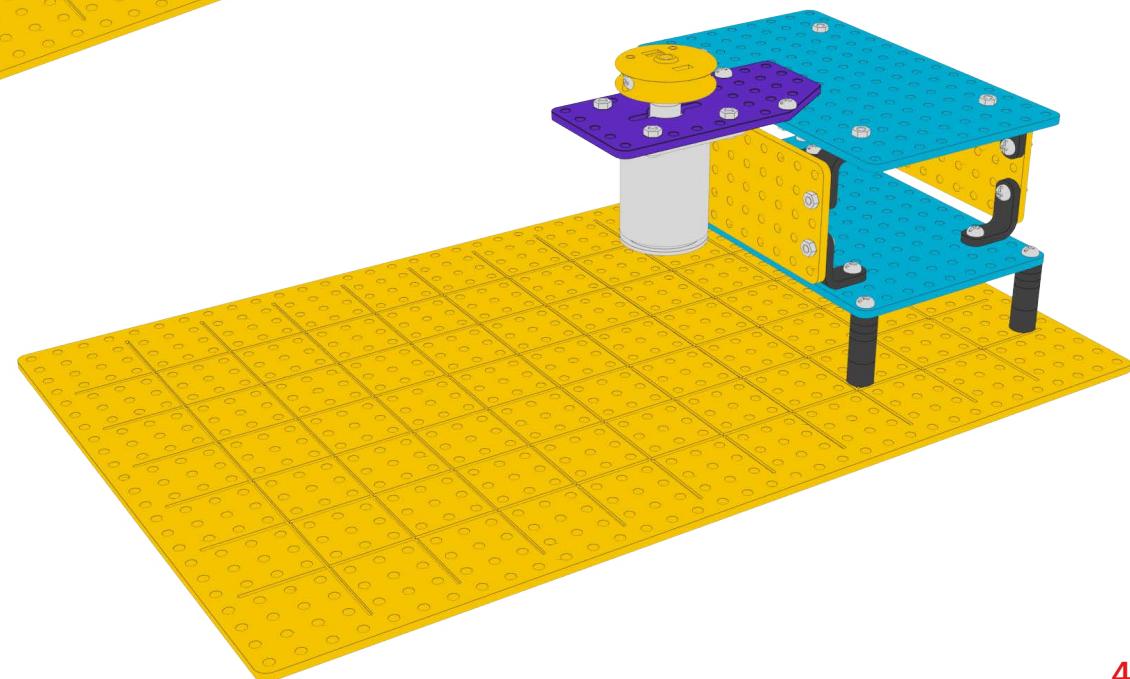


6 Tuerca hexagonal



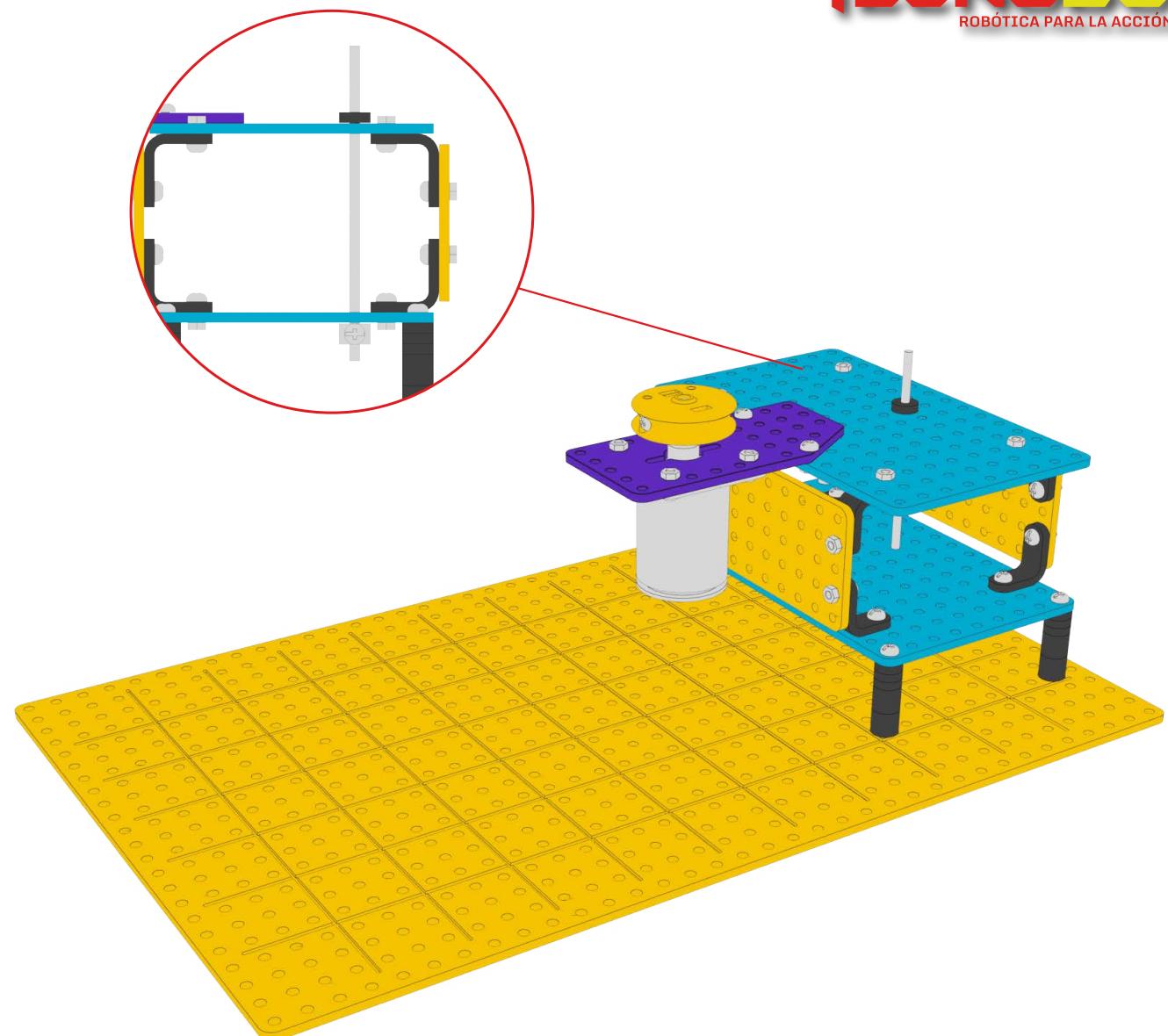
Paso 5

1 Polea chica amarilla



Paso 6

- 1 Eje 9
- 1 Separadores de goma
3mm
- 1 Ajuste de eje



Paso 7

1 Polea grande naranja

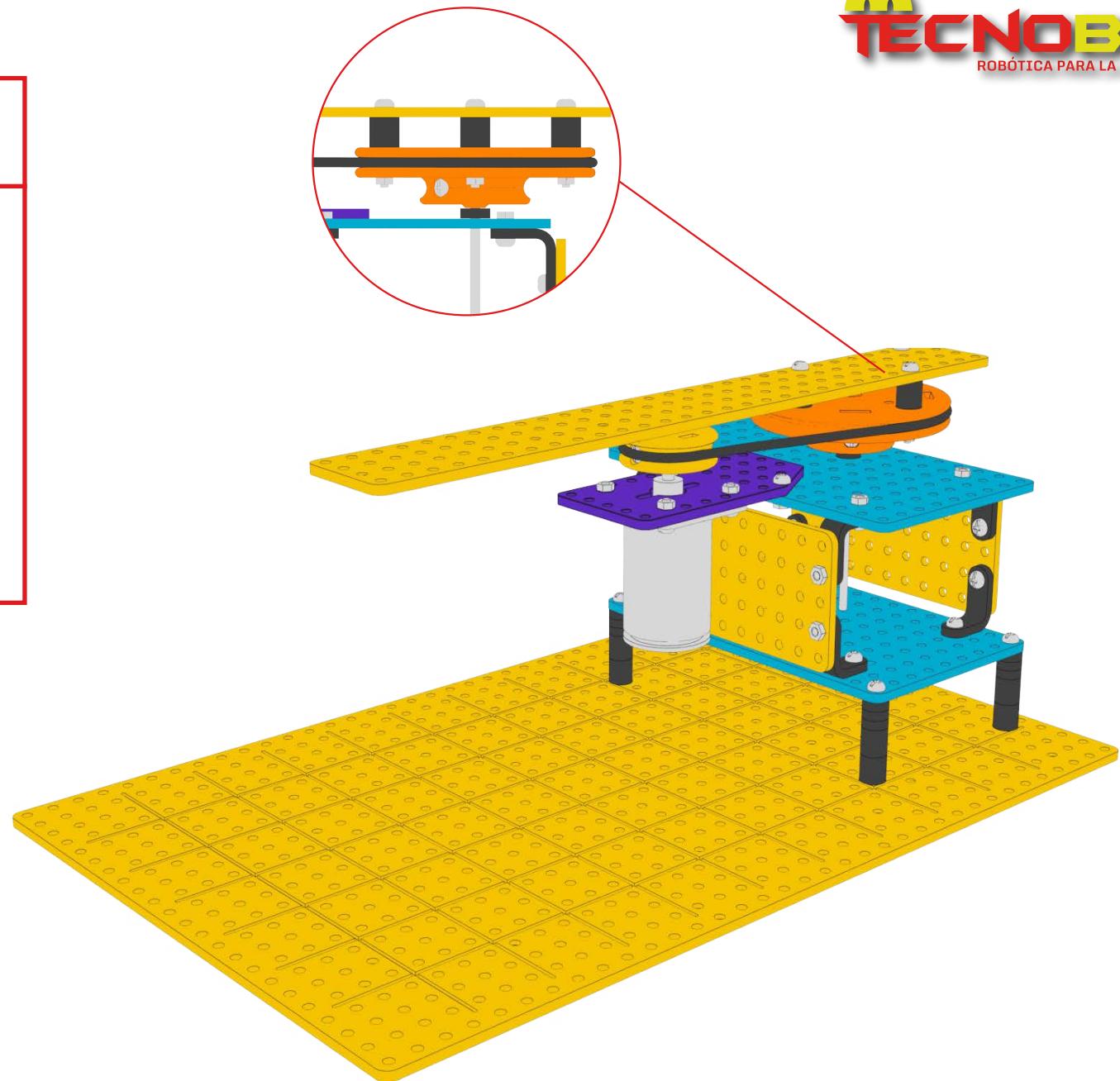


1 O-ring 154



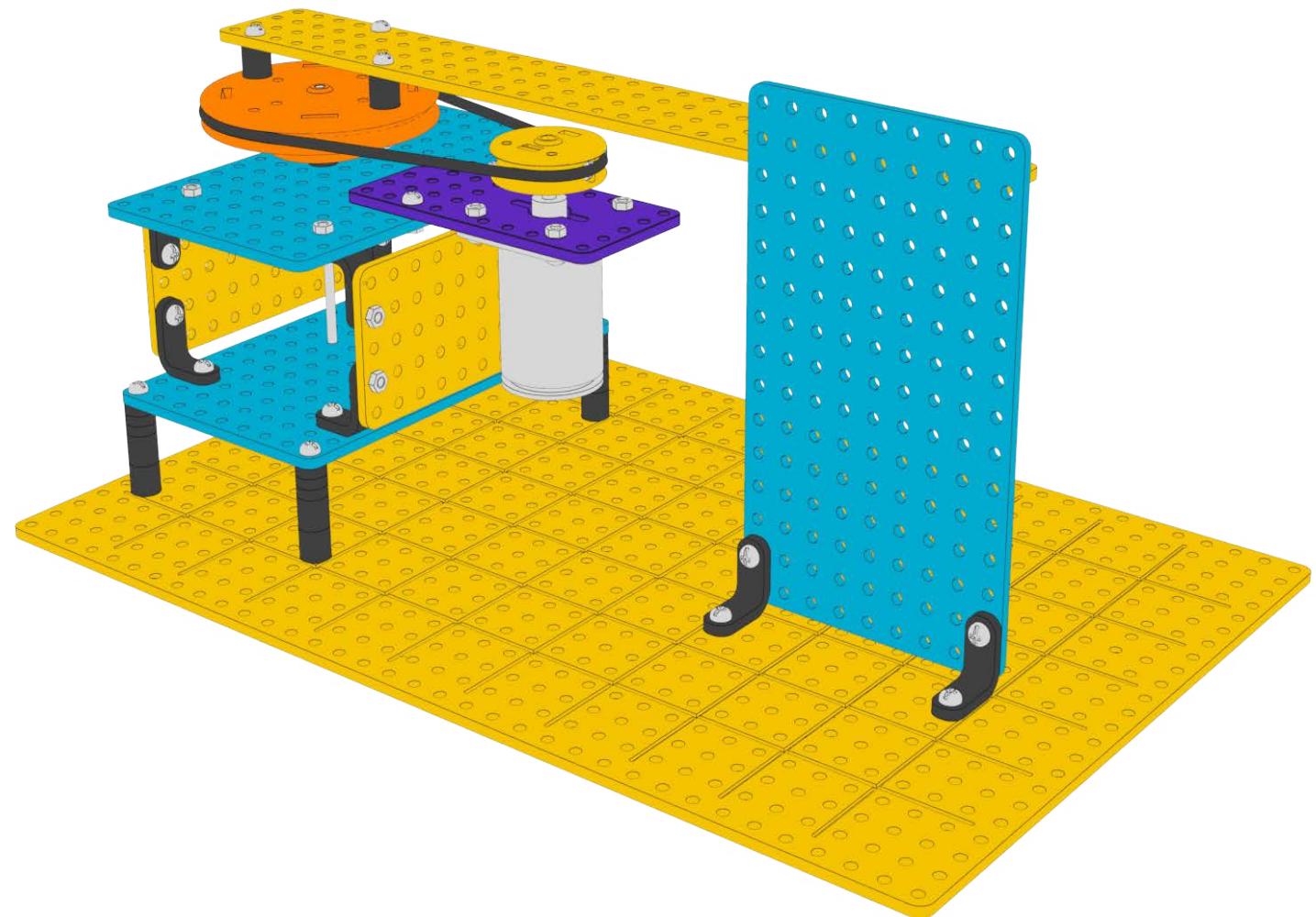
Paso 8

- 1 Plancha 30x4 
- 3 Tornillo 24 mm 
- 3 Tuerca hexagonal 
- 3 Separadores de goma 9mm 



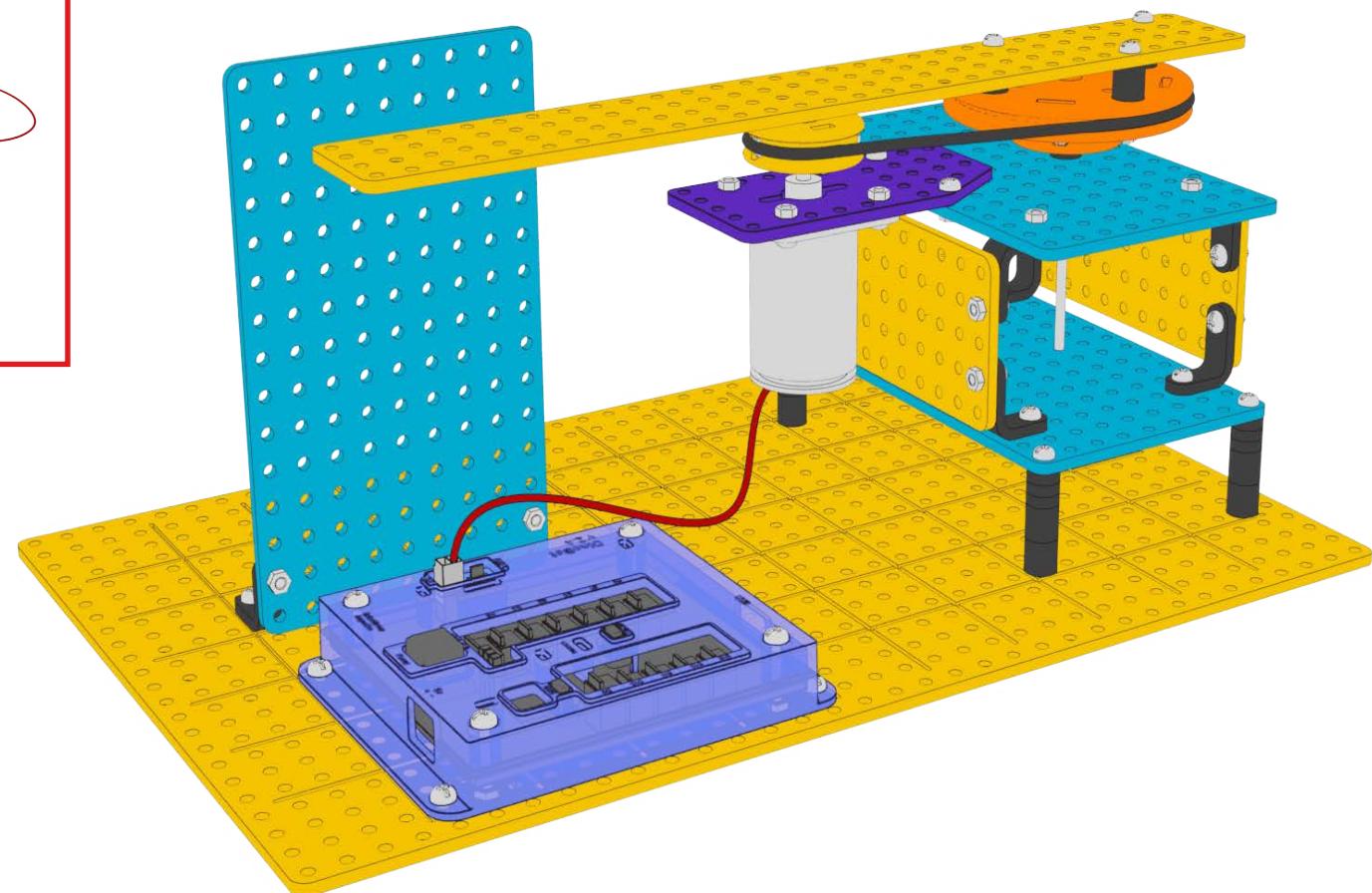
Paso 9

- 1 Plancha 9x15 
- 2 L 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 



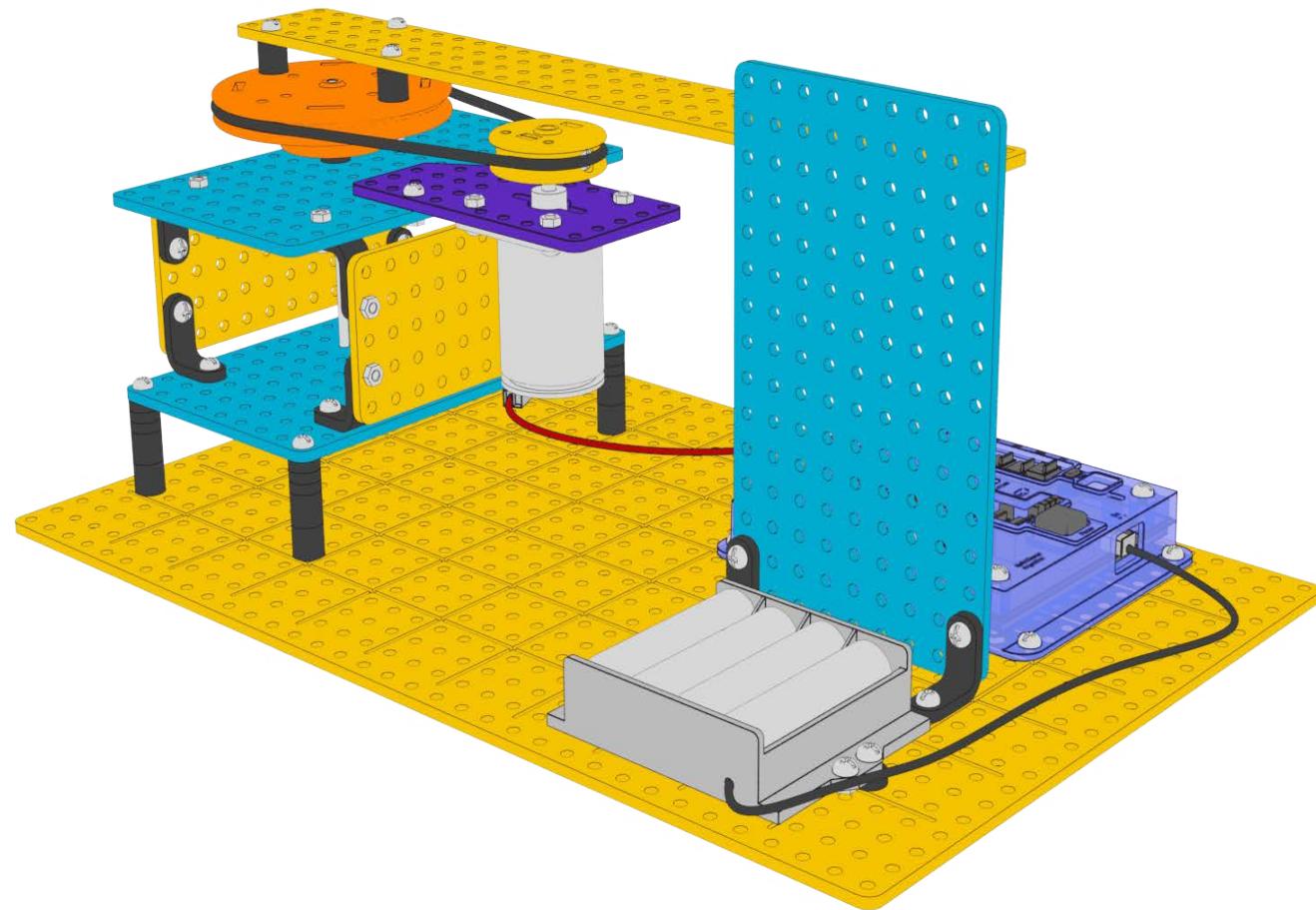
Paso 10

- 1 Placa 
- 1 Cable de motor 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 

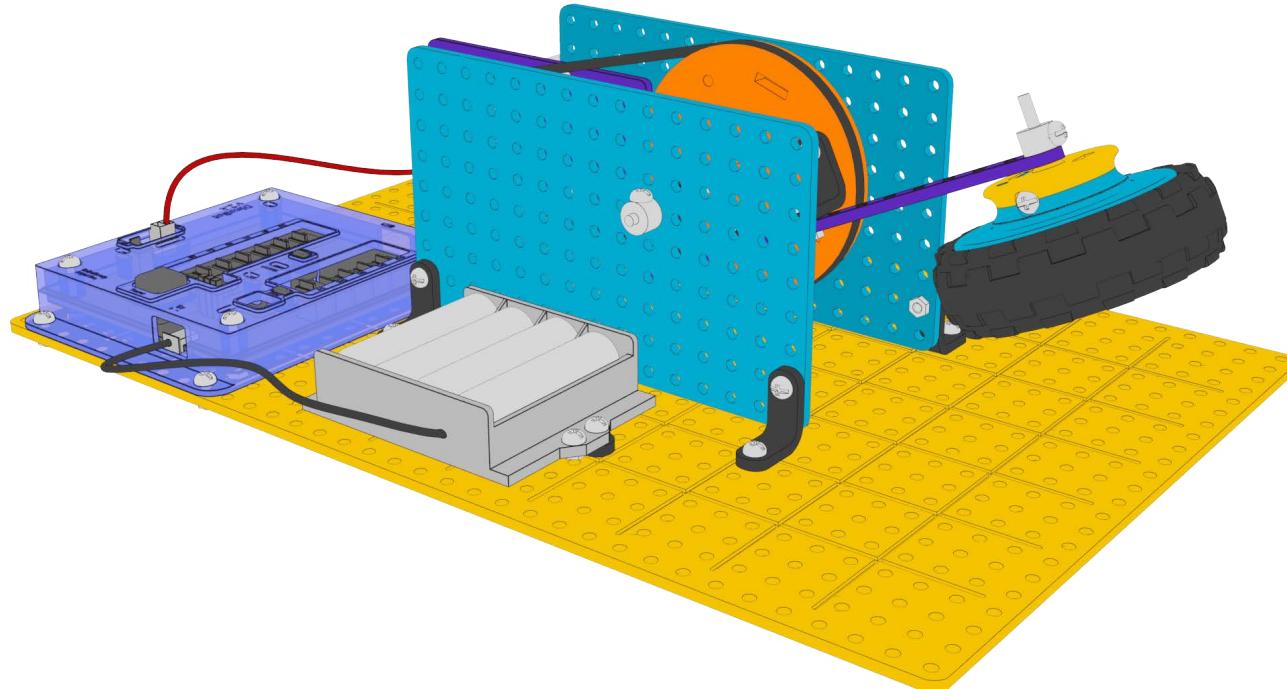


Paso 11

- 1 Portapilas 
- 4 Pilas 
- 2 Tornillo 12 mm 
- 2 Tuerca hexagonal 
- 2 Separadores de goma 3mm 



Secuencia de armado de un reciclador de latas



MATERIAL
EXTRA
Vasos plásticos

Paso 1

1 Rueda



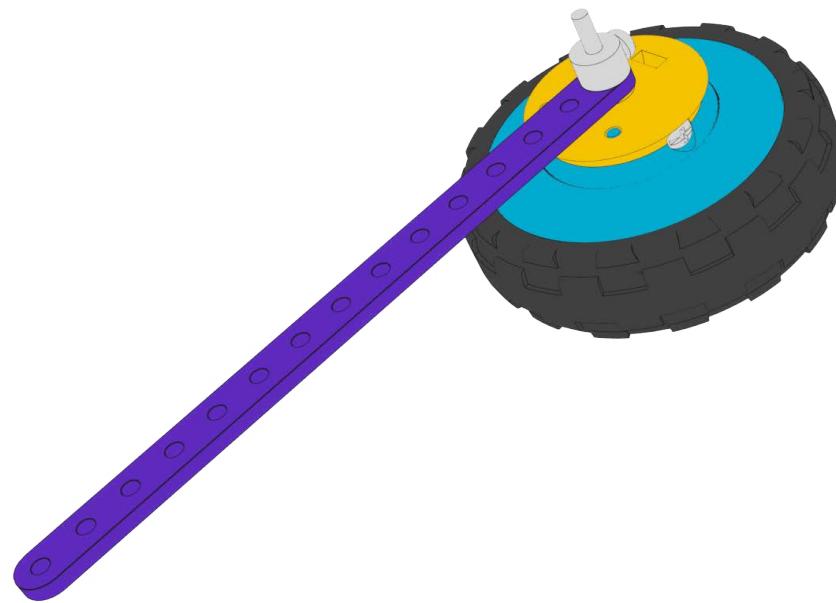
1 Eje 5,4



1 Larguero 15



1 Ajuste de eje



Paso 2

1 Polea grande naranja



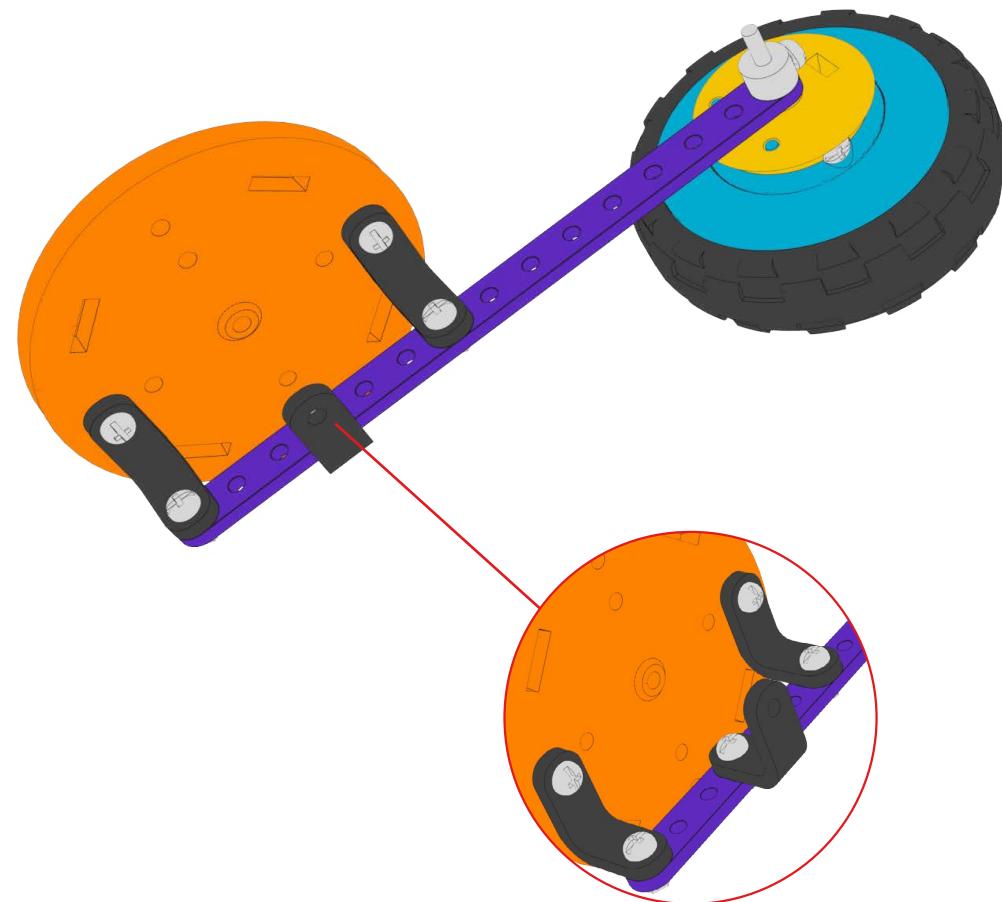
3 L



5 Tornillo 8 mm

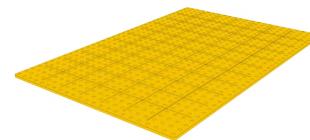


5 Tuerca hexagonal



Paso 3

1 Plancha 35x23



2 Plancha 9x15



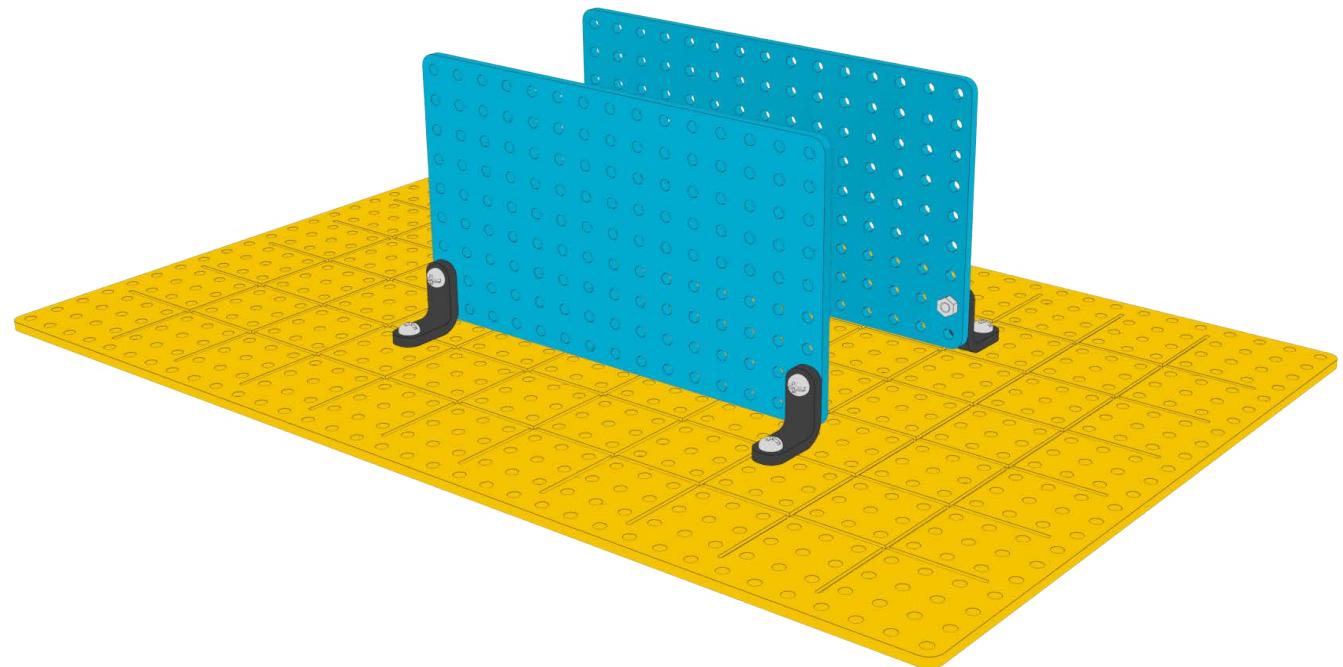
4 L



8 Tornillo 8 mm



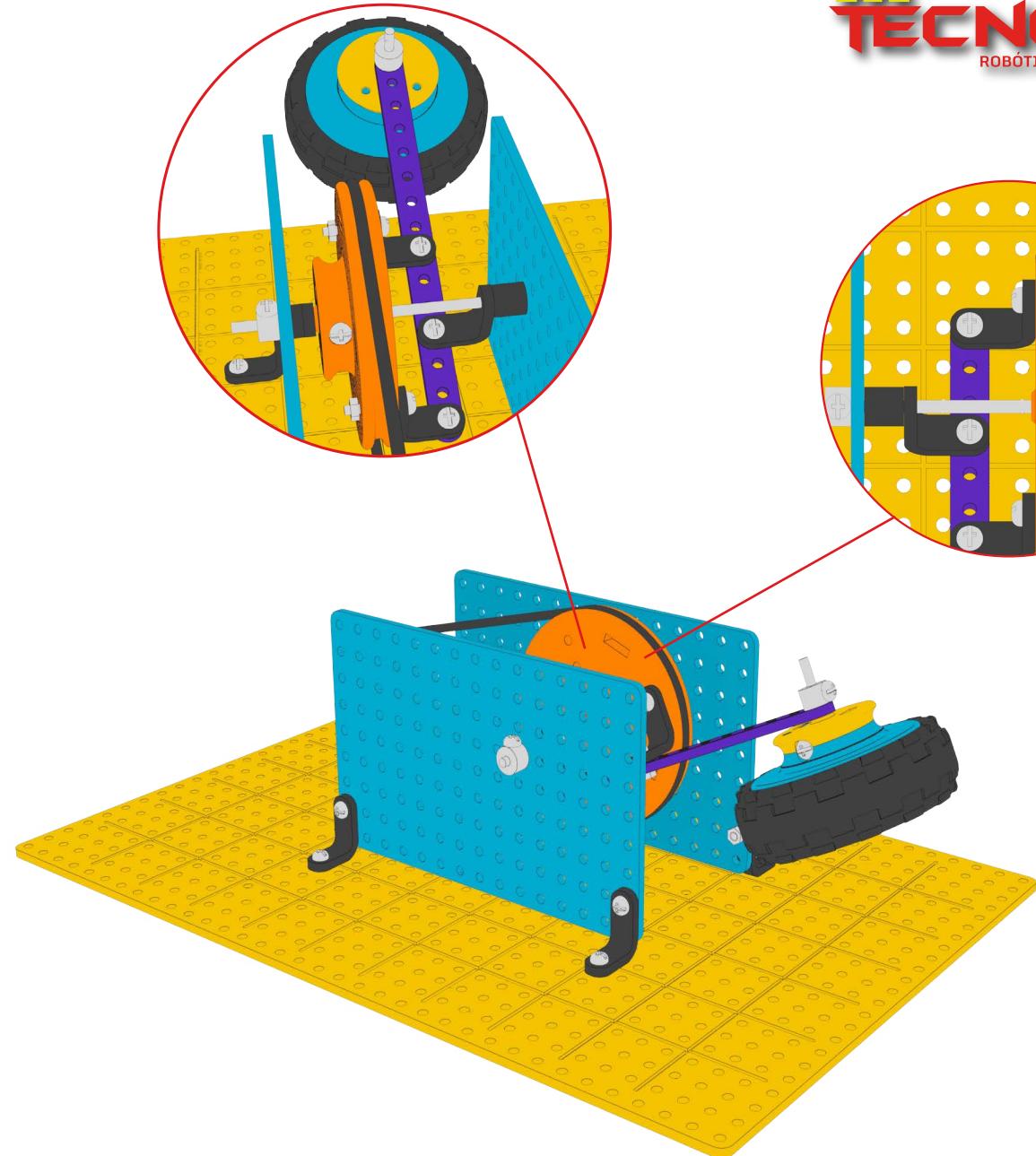
8 Tuerca hexagonal



Paso 4

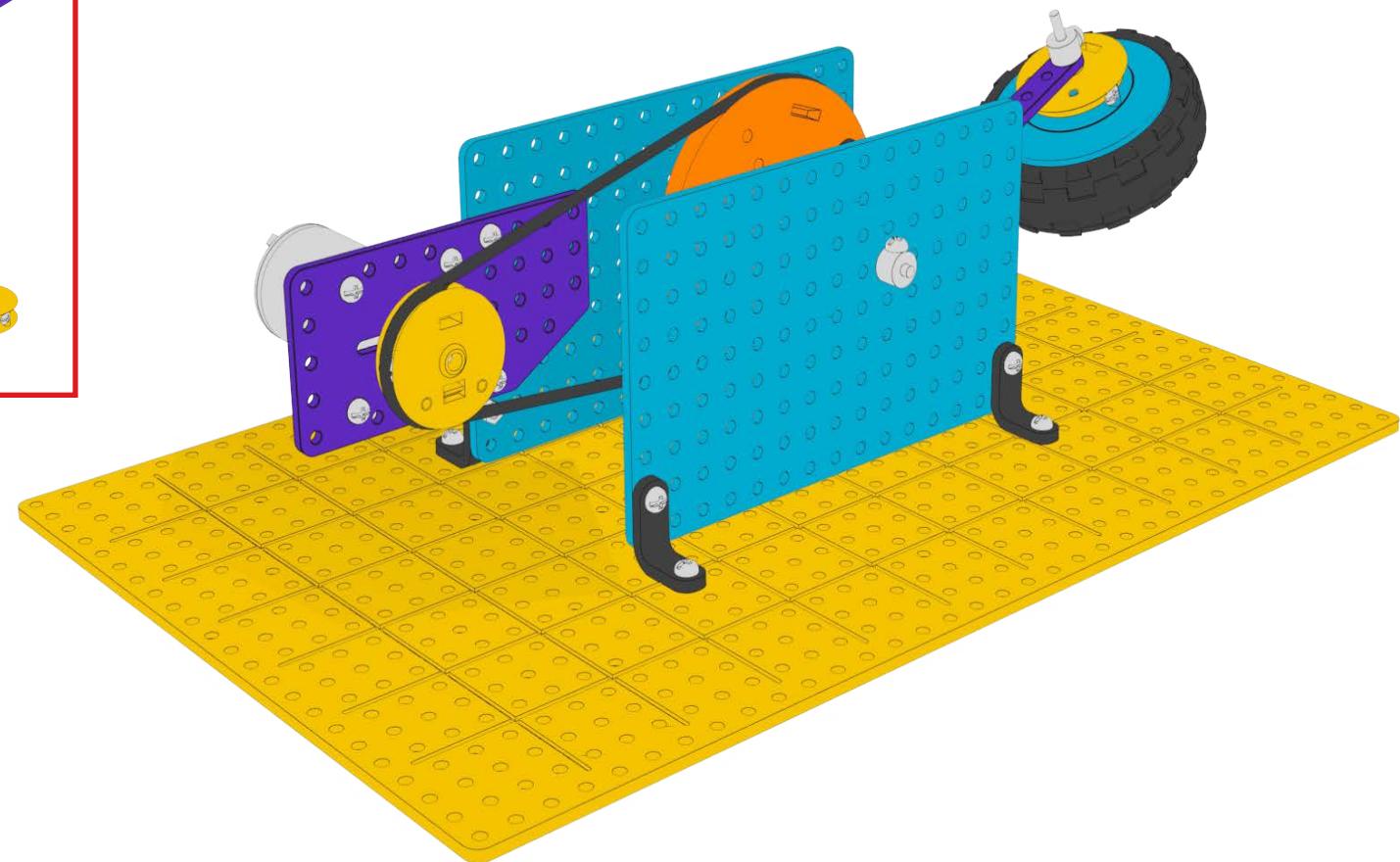
Unir armados de PASO 2 + 3

- 1 Eje 9
- 2 Ajuste de eje
- 2 Separadores de goma
3mm
- 1 Separadores de goma
9mm
- 1 O-ring 154



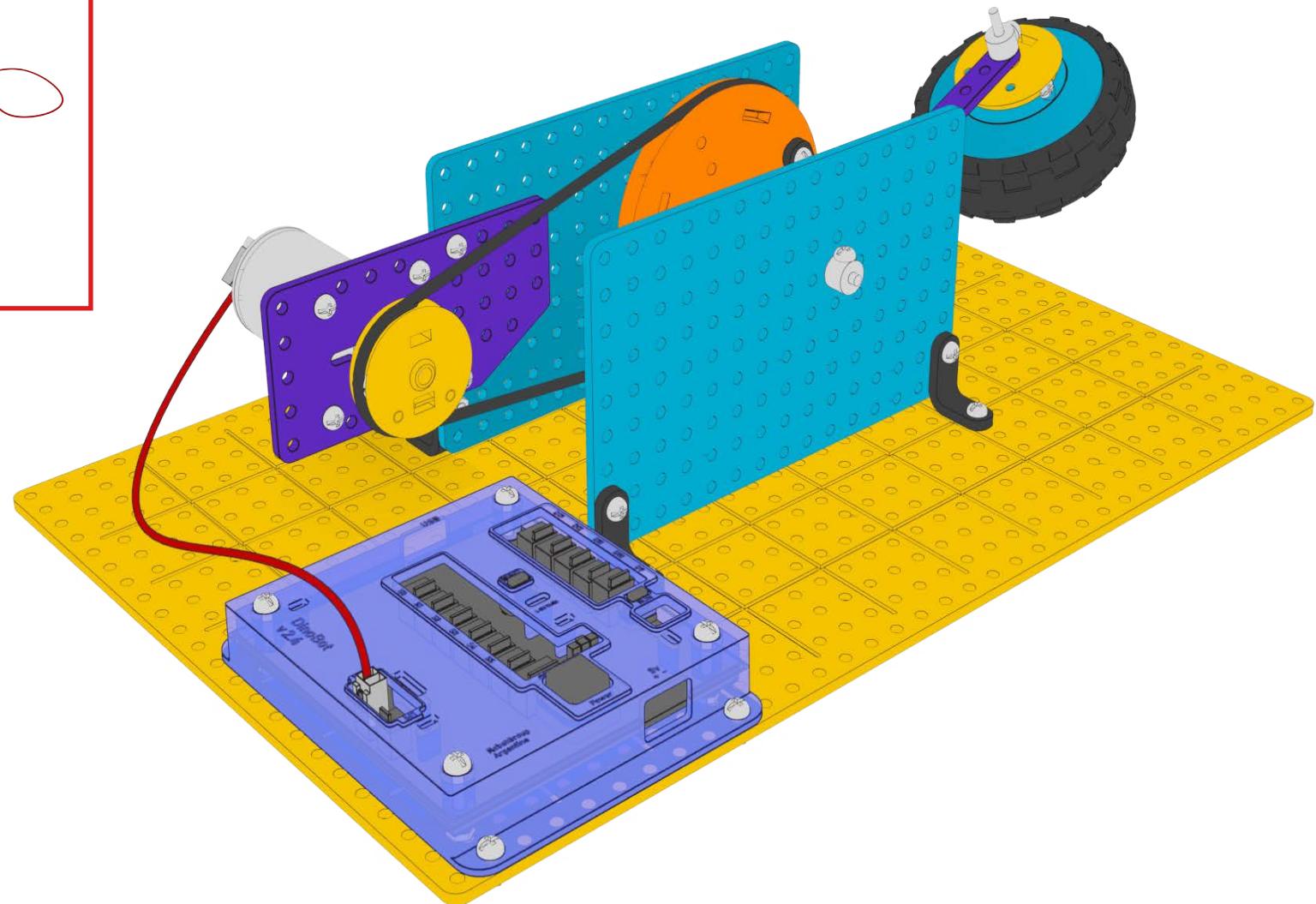
Paso 5

- 1 Soporte de motor 
- 1 Motor 
- 6 Tornillo 8 mm 
- 6 Tuerca hexagonal 
- 1 Polea chica amarilla 

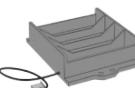


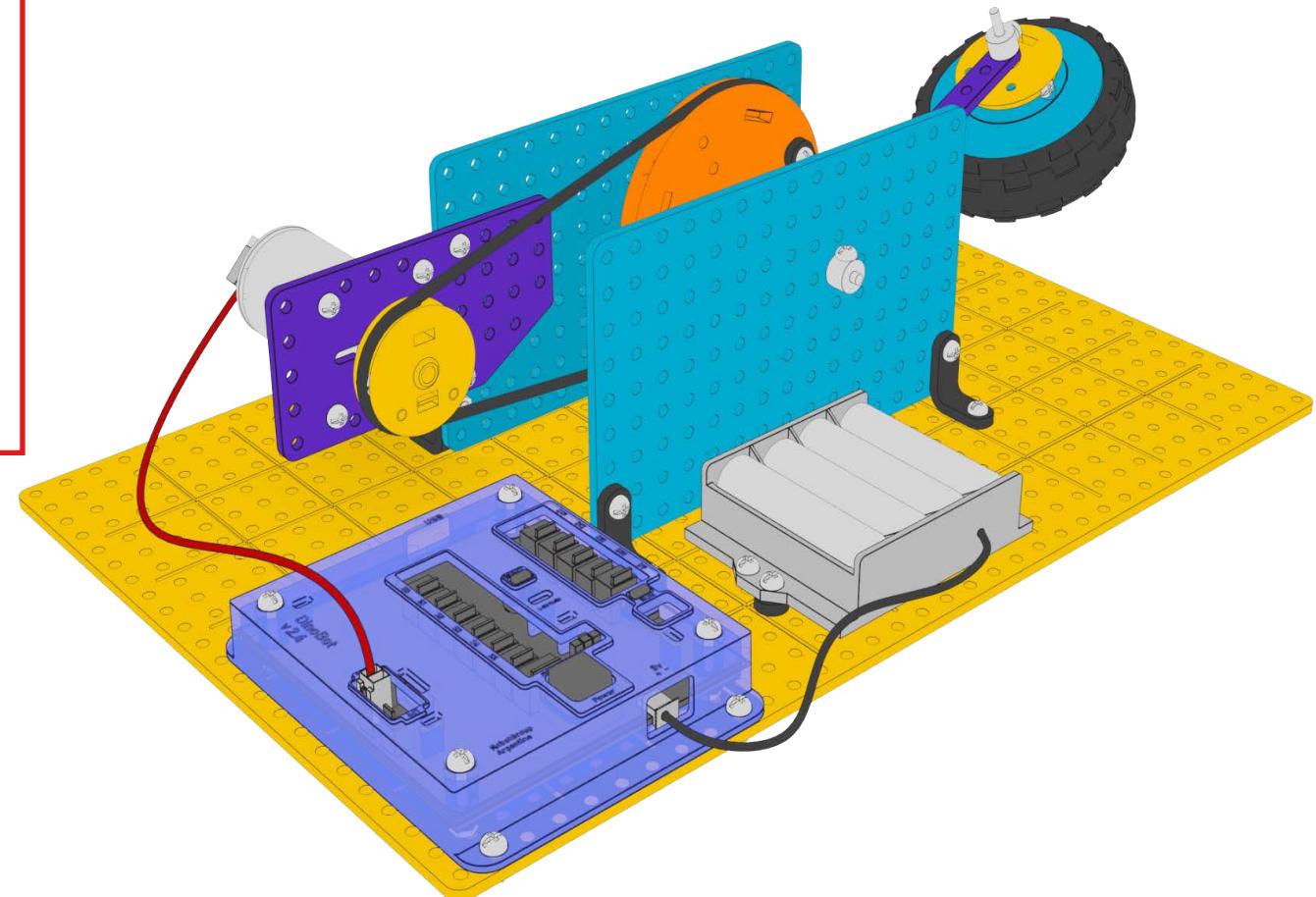
Paso 8

- 1 Placa 
- 1 Cable de motor 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 

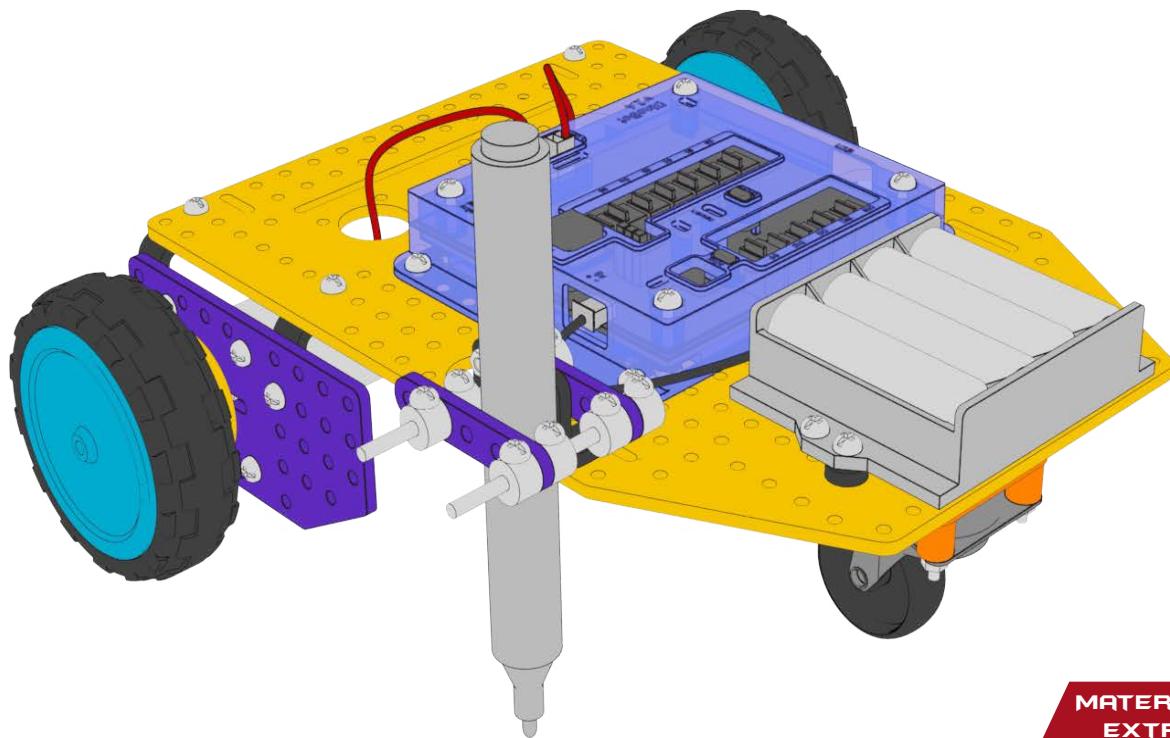


Paso 9

- 1 Portapilas 
- 4 Pilas 
- 2 Tornillo 12 mm 
- 2 Tuerca hexagonal 
- 2 Separadores de goma 3mm 



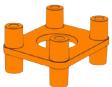
Secuencia de armado de un robot dibujante

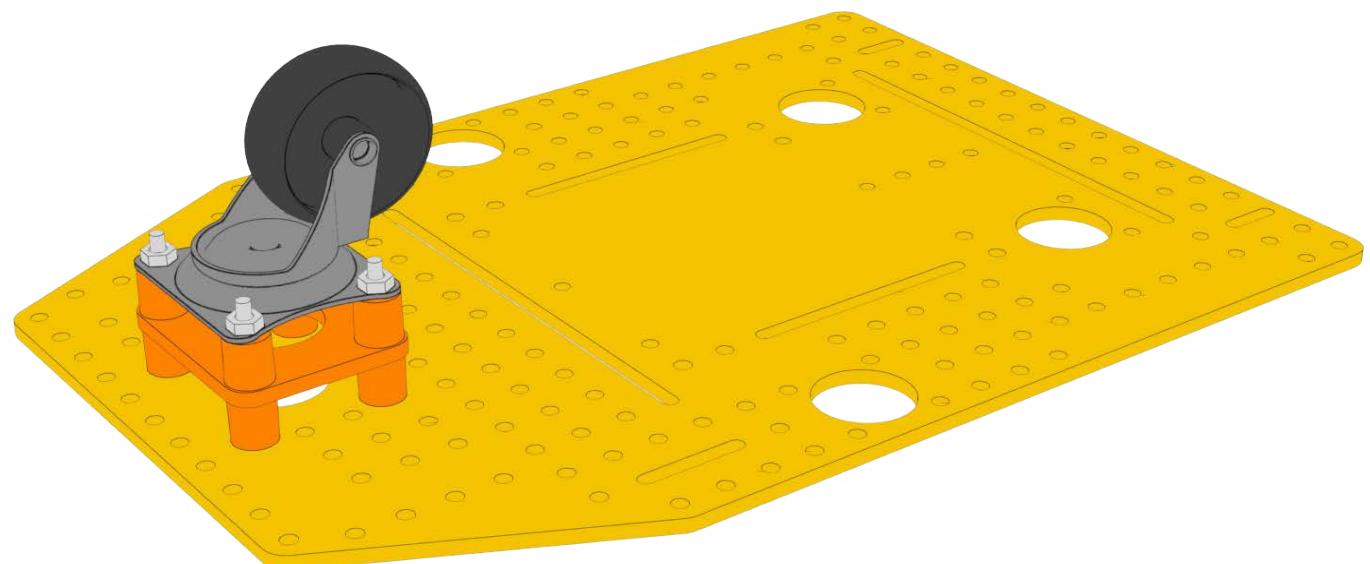


MATERIAL
EXTRA

Cinta adhesiva
y marcador

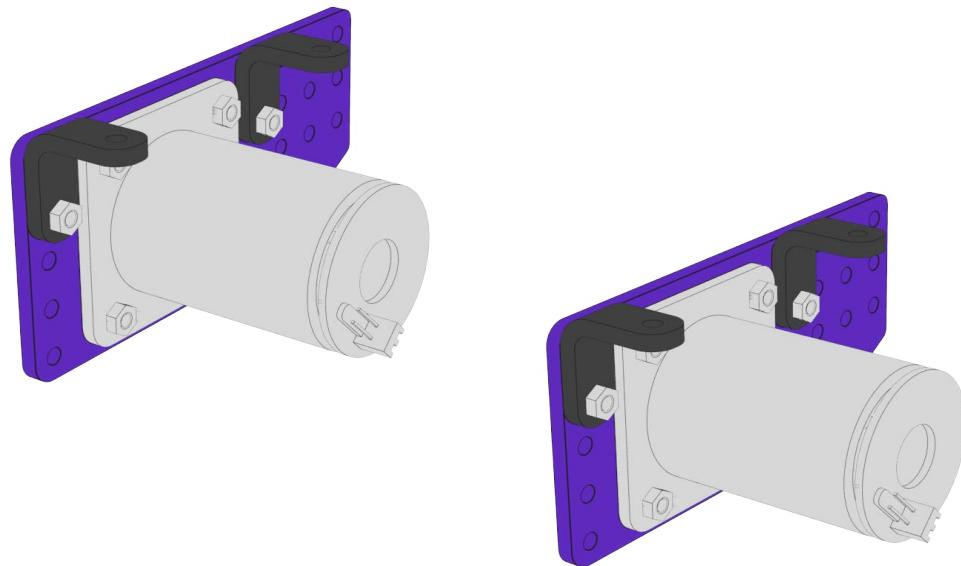
Paso 1

- 1 Chasis 
- 1 Soporte de rueda loca 
- 1 Rueda loca 
- 4 Tornillo 30 mm 
- 2 Soporte de motor 
- 4 Tuerca hexagonal 



Paso 2

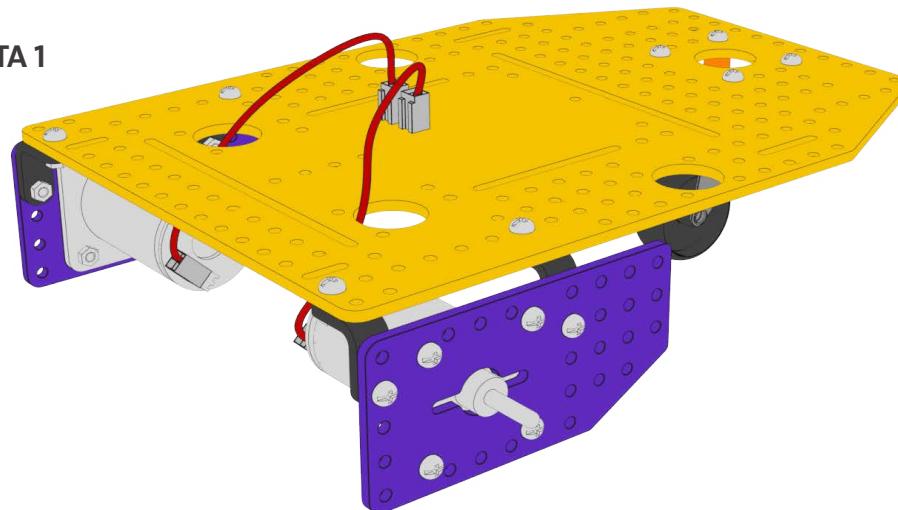
- 2 Motor 
- 2 Soporte de motor 
- 4 L 
- 12 Tornillo 8 mm 
- 12 Tuerca hexagonal 



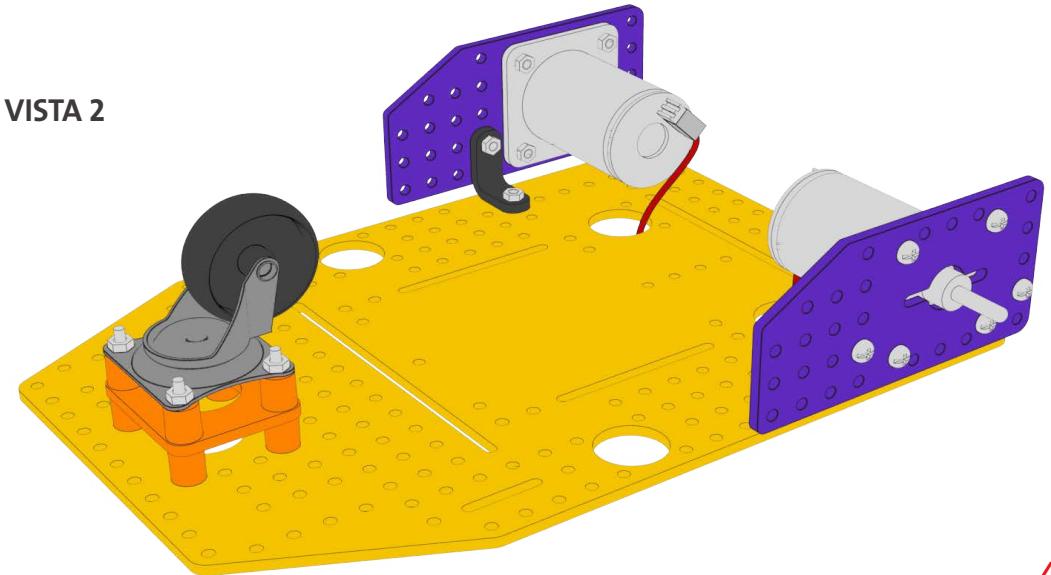
Paso 3

- 2 Cable de motor
- 4 Tornillo 8 mm
- 4 Tuerca hexagonal

VISTA 1

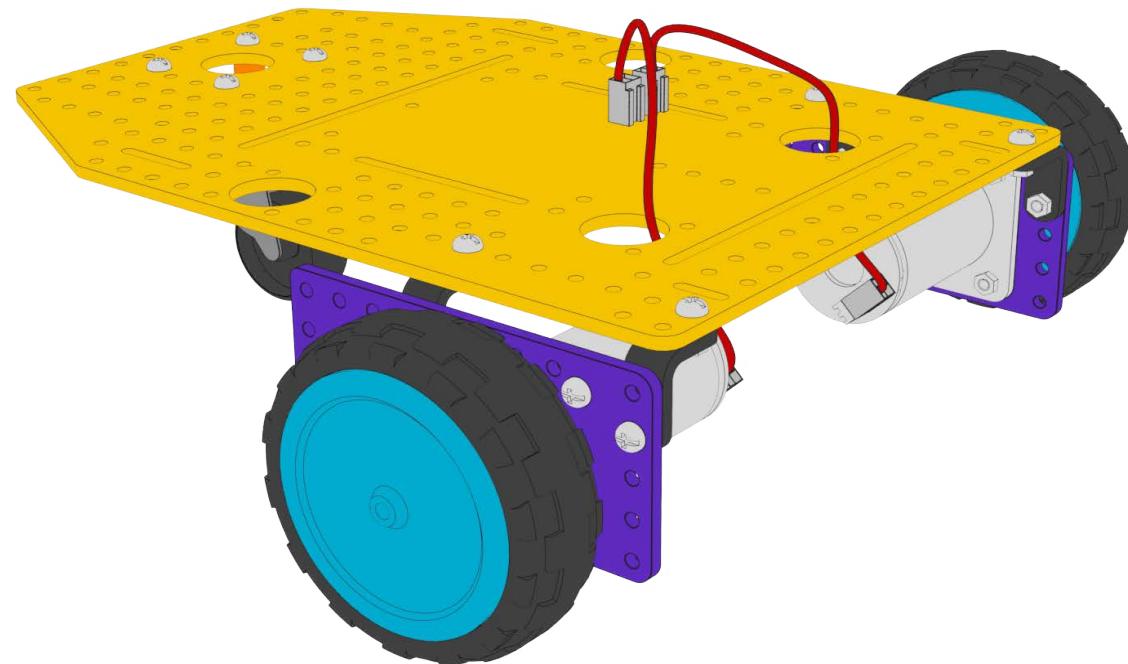


VISTA 2



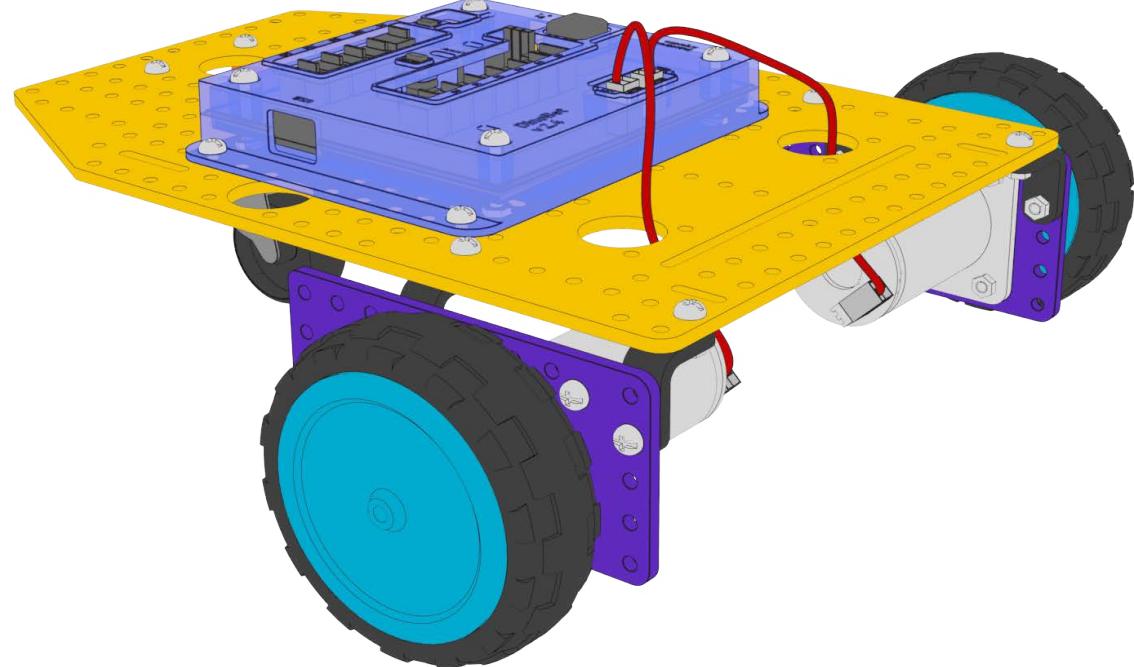
Paso 4

2 Rueda



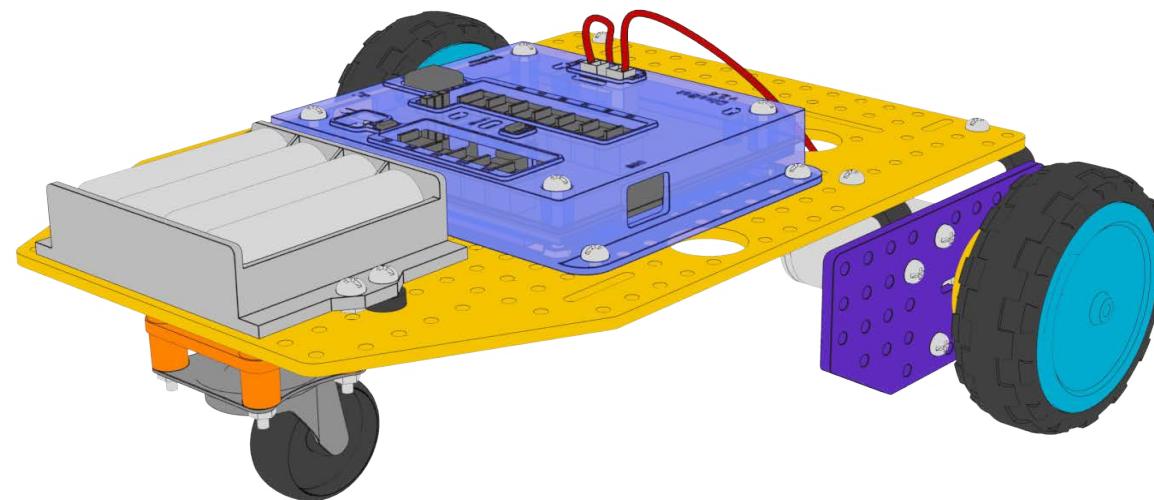
Paso 5

- 1 Placa 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 



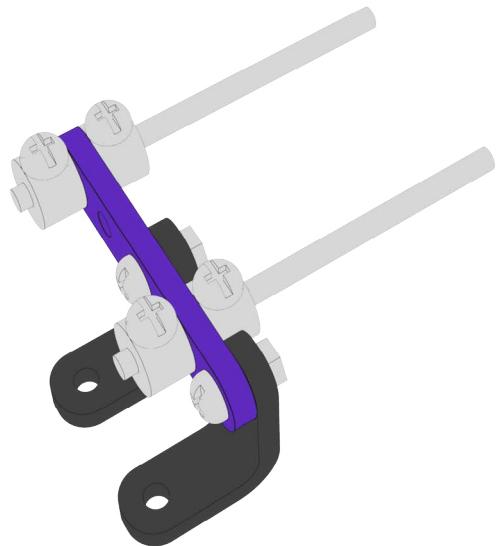
Paso 6

- 1 Portapilas 
- 4 Pilas 
- 2 Tornillo 12 mm 
- 2 Tuerca hexagonal 
- 2 Separadores de goma 3mm 



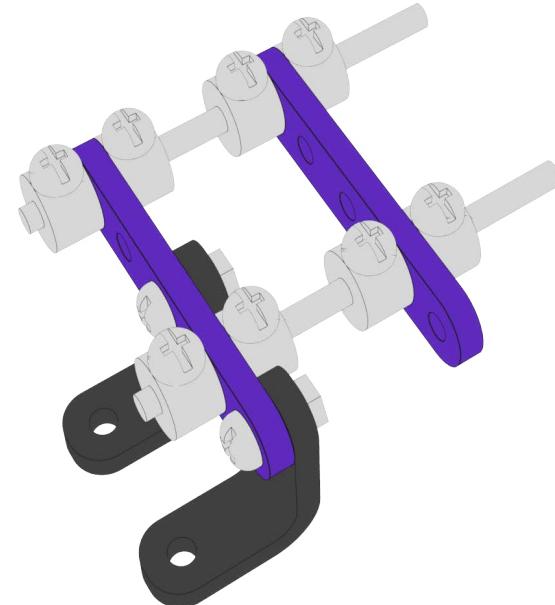
Paso 7

- 2 Eje 5,4
- 4 Ajuste de eje
- 1 Languero 5
- 2 L
- 2 Tornillo 8 mm
- 2 Tuerca hexagonal



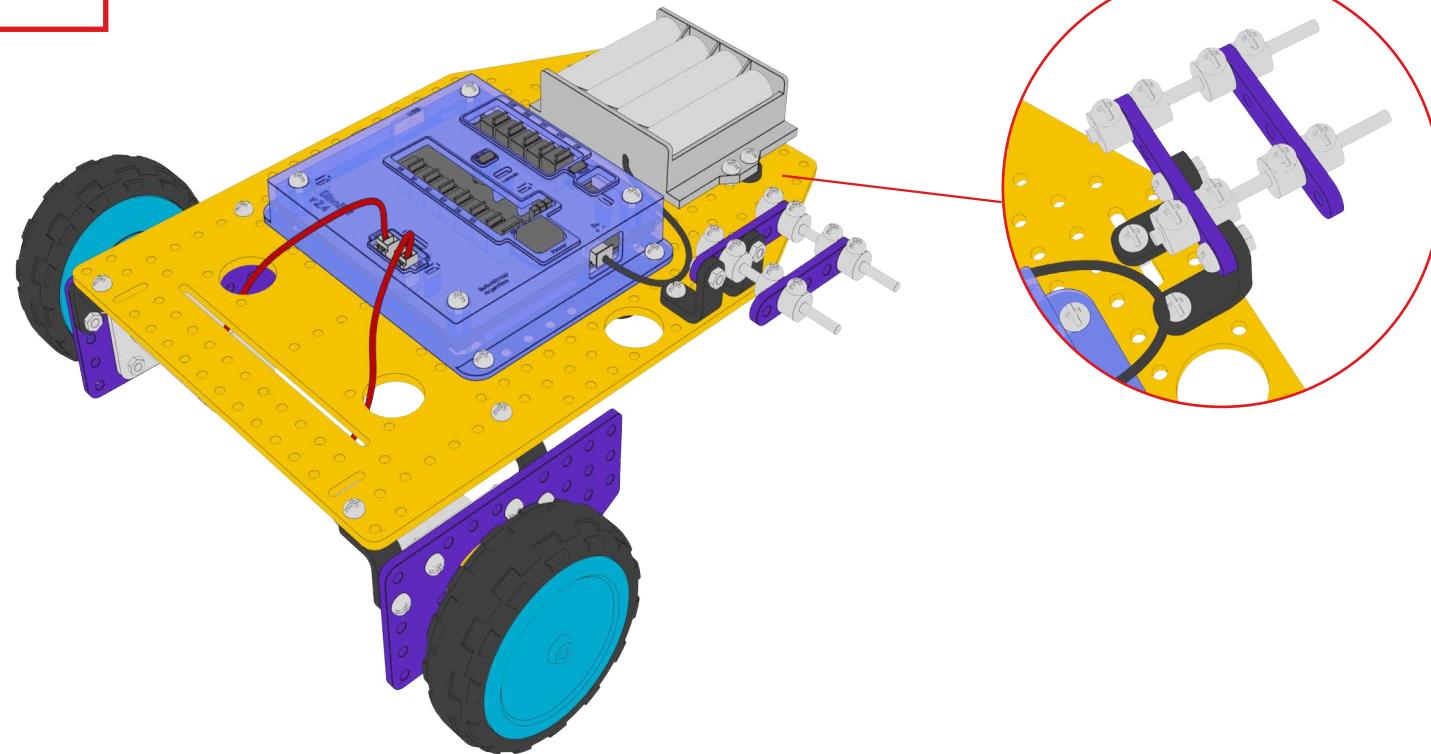
Paso 8

- 4 Ajuste de eje
- 1 Languero 5



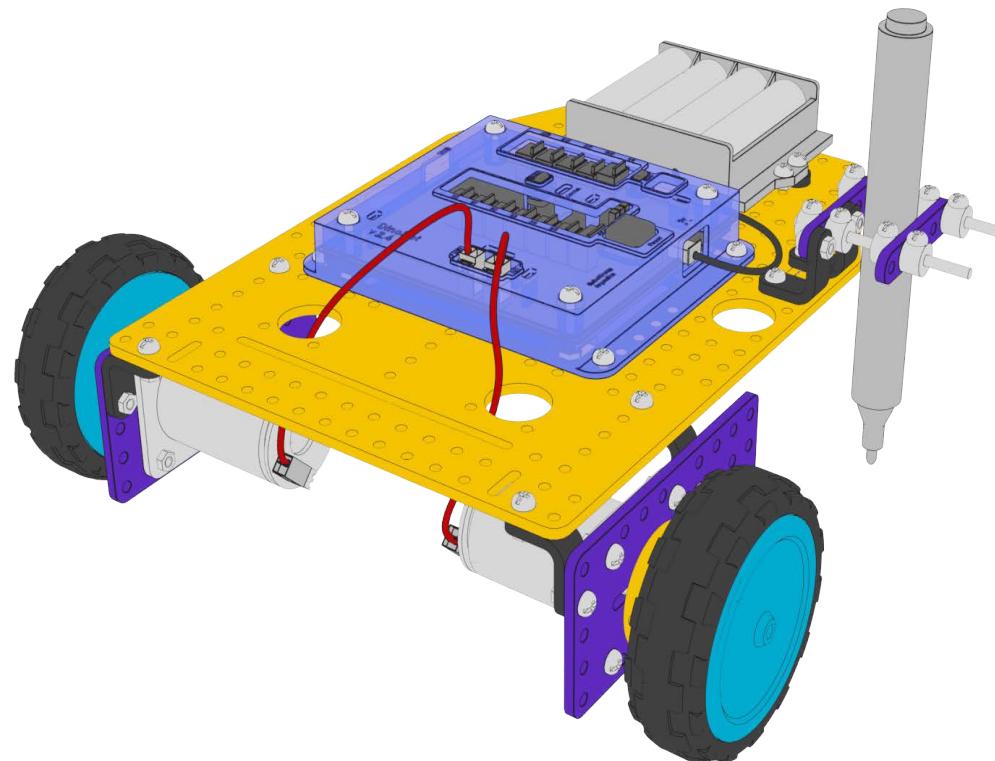
Paso 9

- 2 Tornillo 8 mm 
- 2 Tuerca hexagonal 

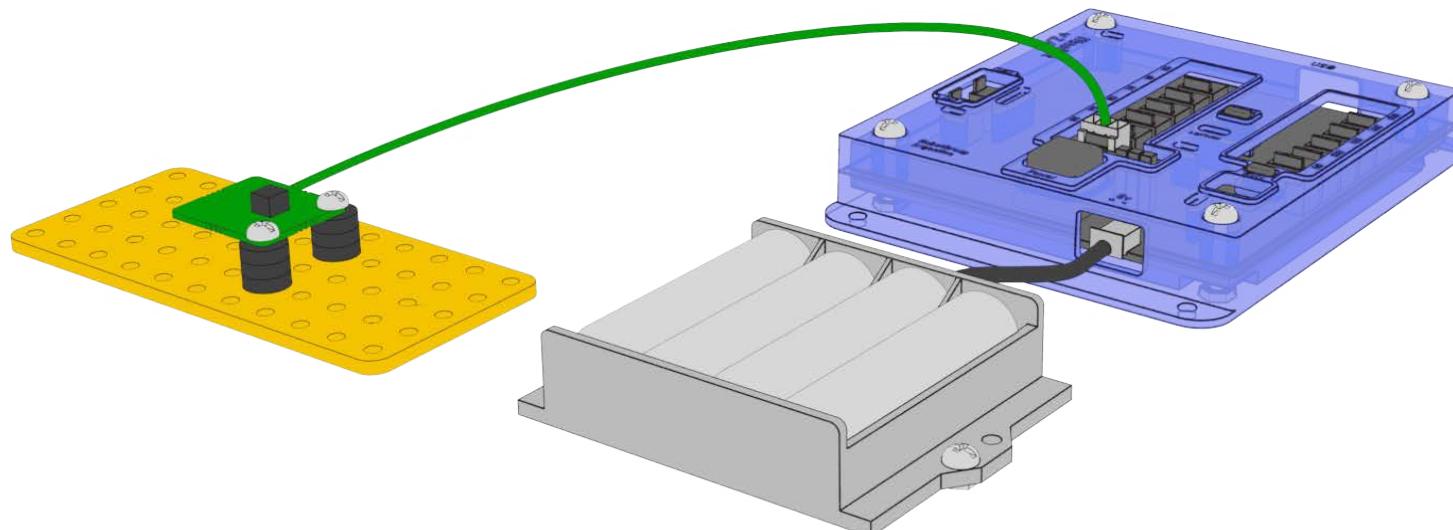


Paso 10

Marcador



Secuencia de armado de un telégrafo



Paso 1

2 Plancha 11x5



1 Sensor IR - CNY70
(infrarrojo)



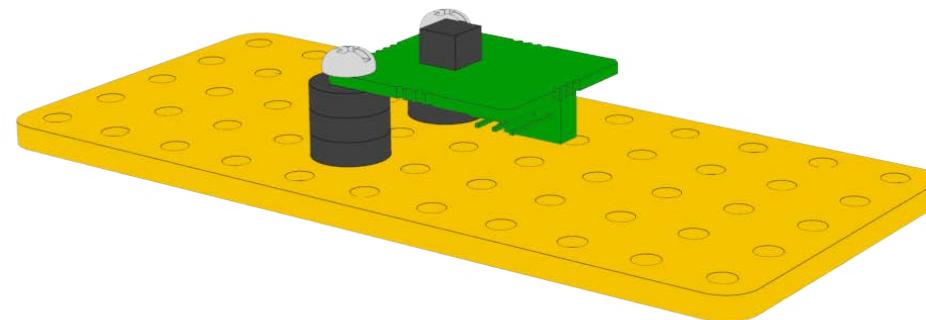
6 Separadores de goma
3mm



2 Tornillo 16 mm



2 Tuerca hexagonal

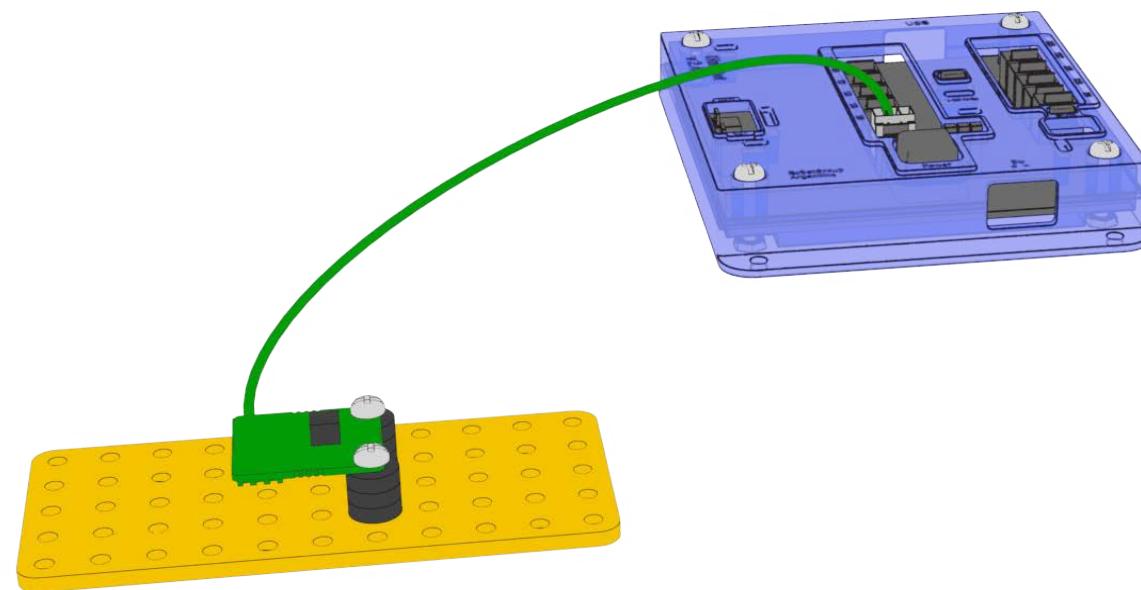


Paso 2

1 Placa



1 Cable de sensor

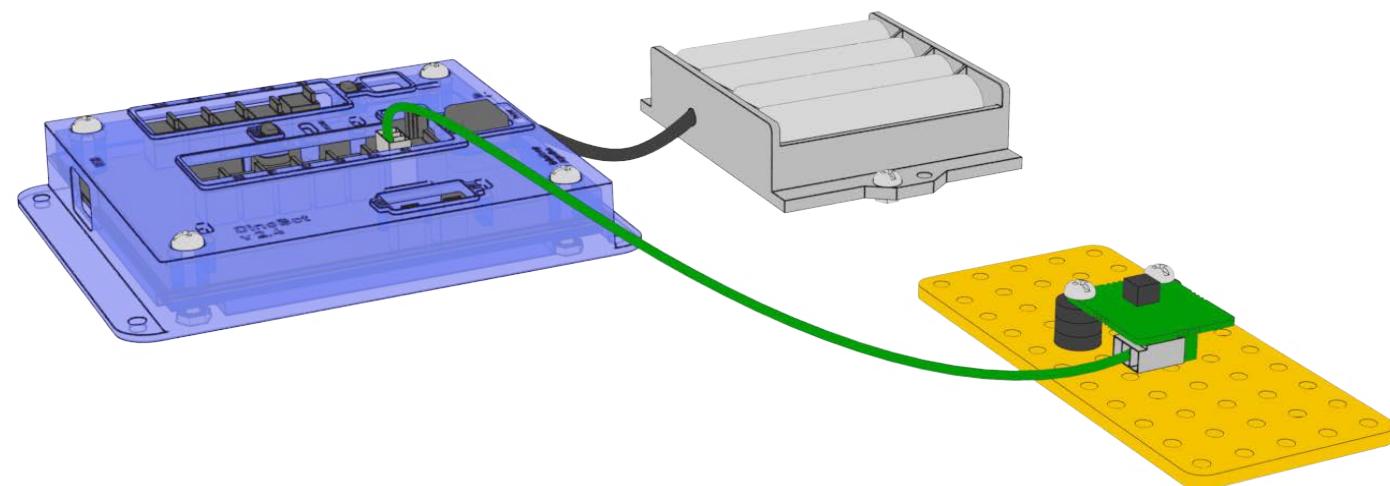


Paso 2

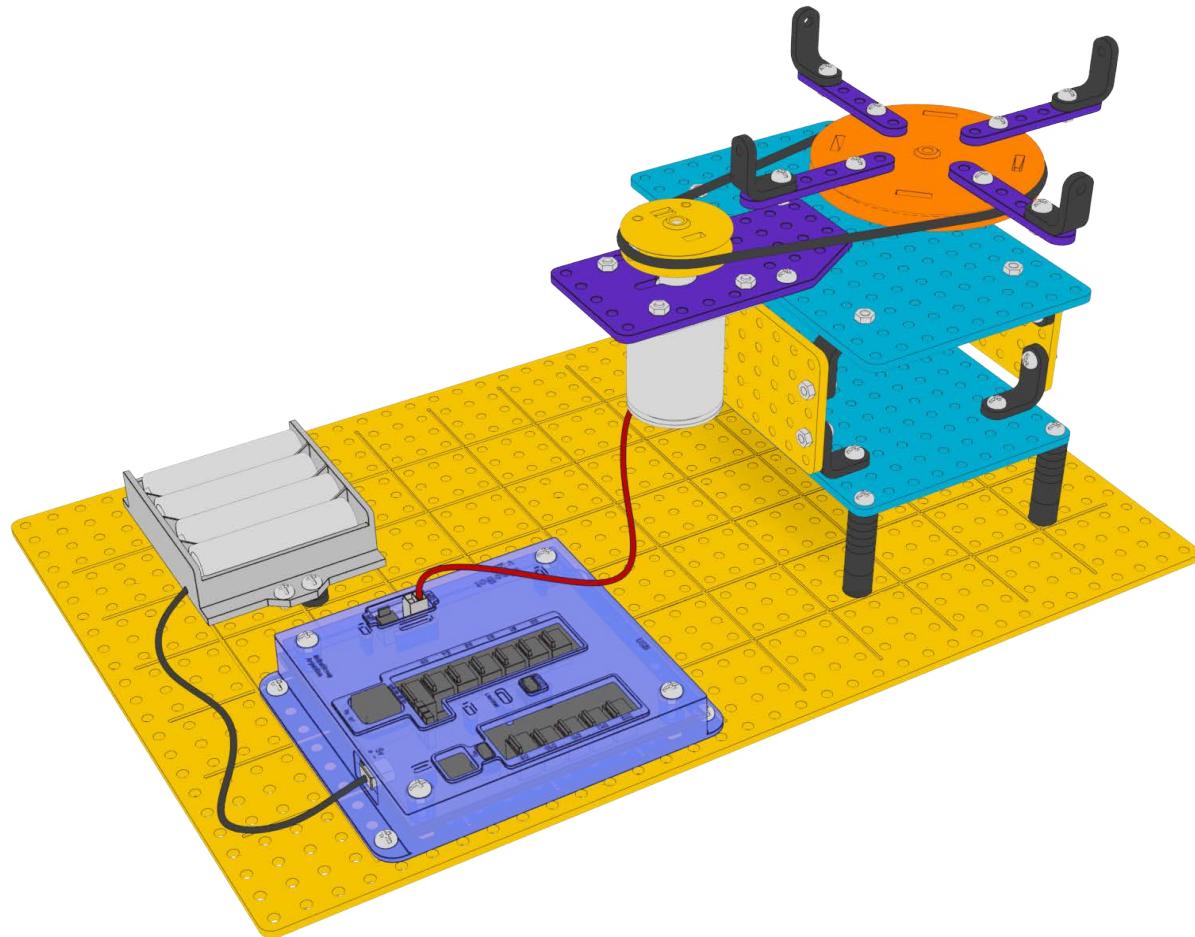
1 Portapilas



4 Pilas

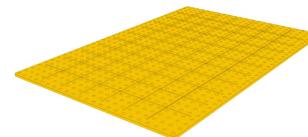


Secuencia de armado de un zoótropo



Paso 1

1 Plancha 35x23



1 Plancha 9x15



20 Separadores de goma
3mm



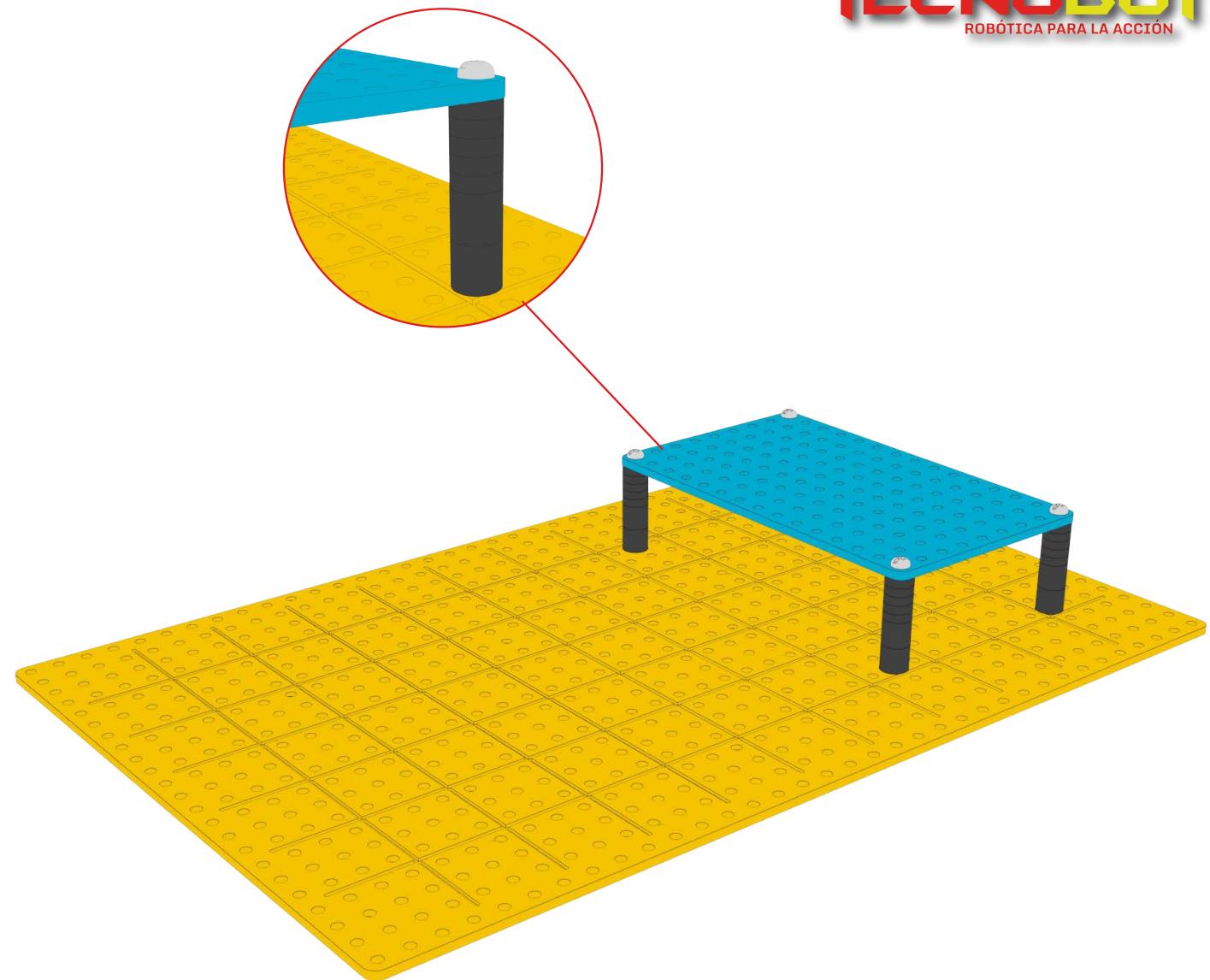
8 Separadores de goma
9mm



4 Tornillo 42 mm

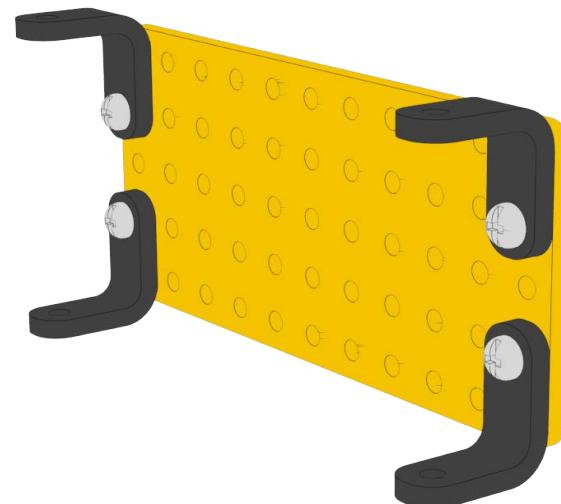
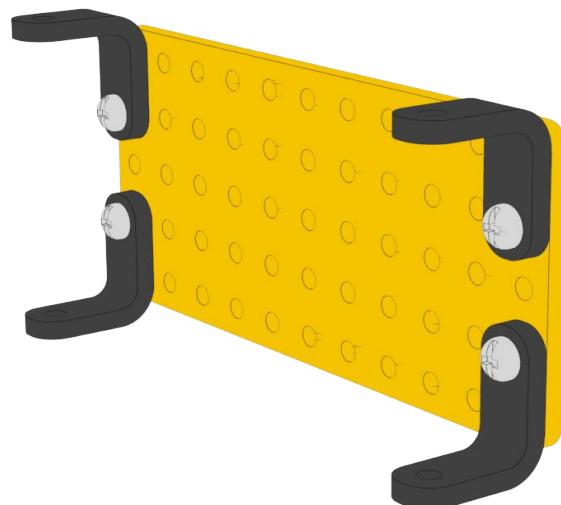


4 Tuerca hexagonal



Paso 2

- 2 Plancha 11x5
- 8 L
- 8 Tornillo 8 mm
- 8 Tuerca hexagonal

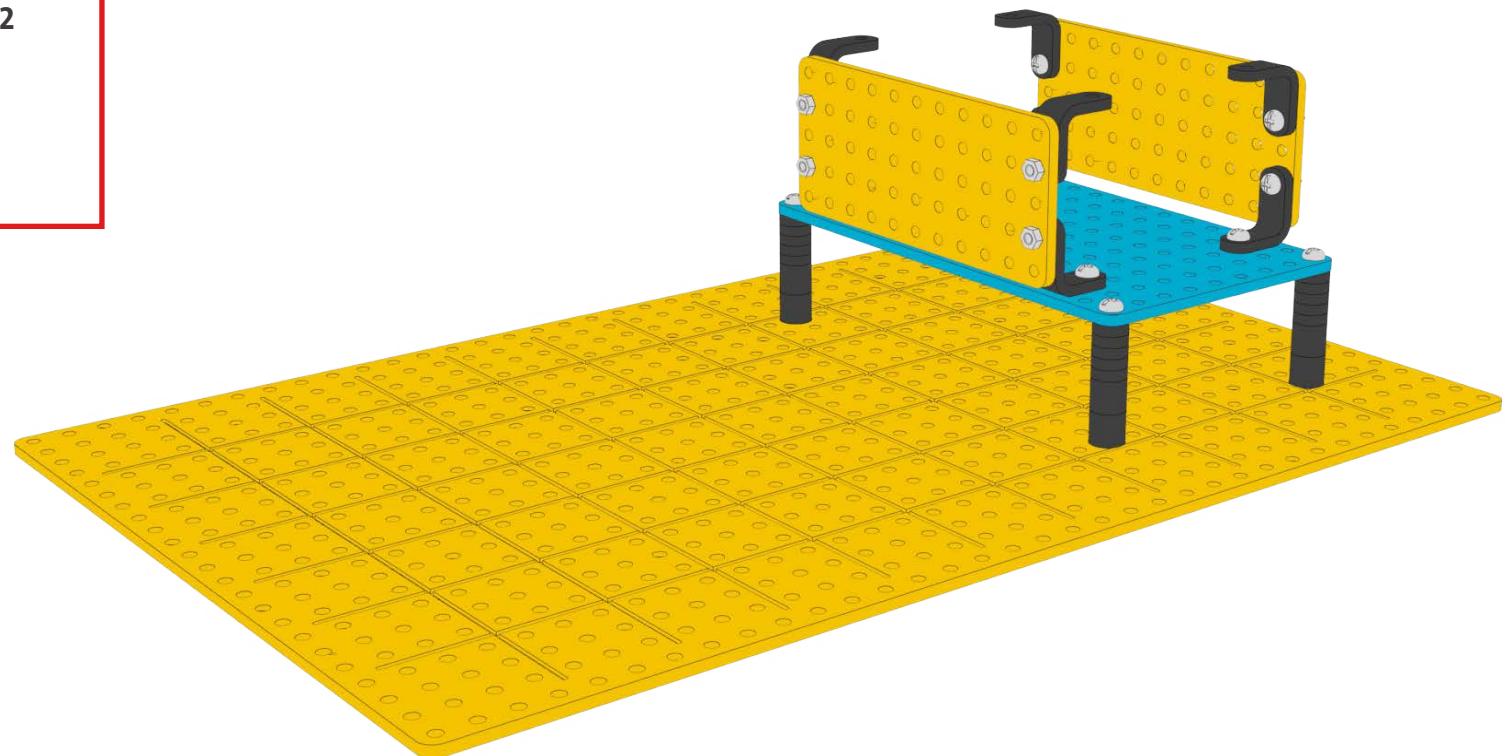


Paso 3

Unir armados de PASO 1 + 2

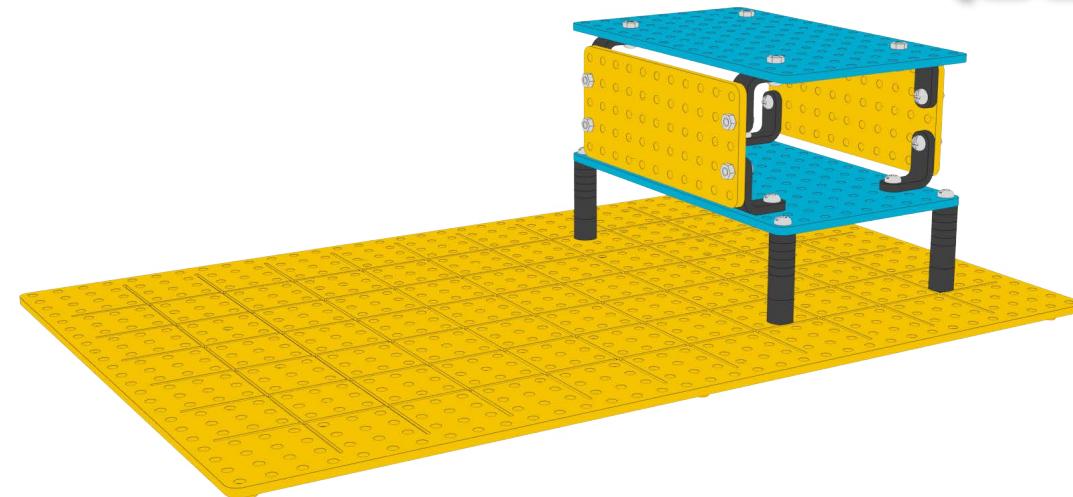
4 Tornillo 8 mm 

4 Tuerca hexagonal 



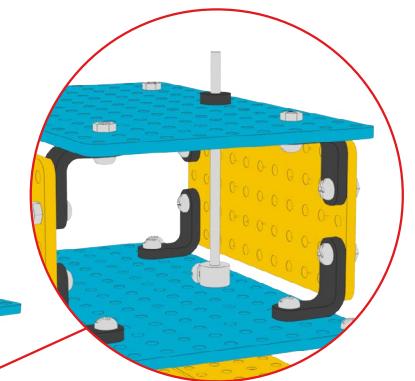
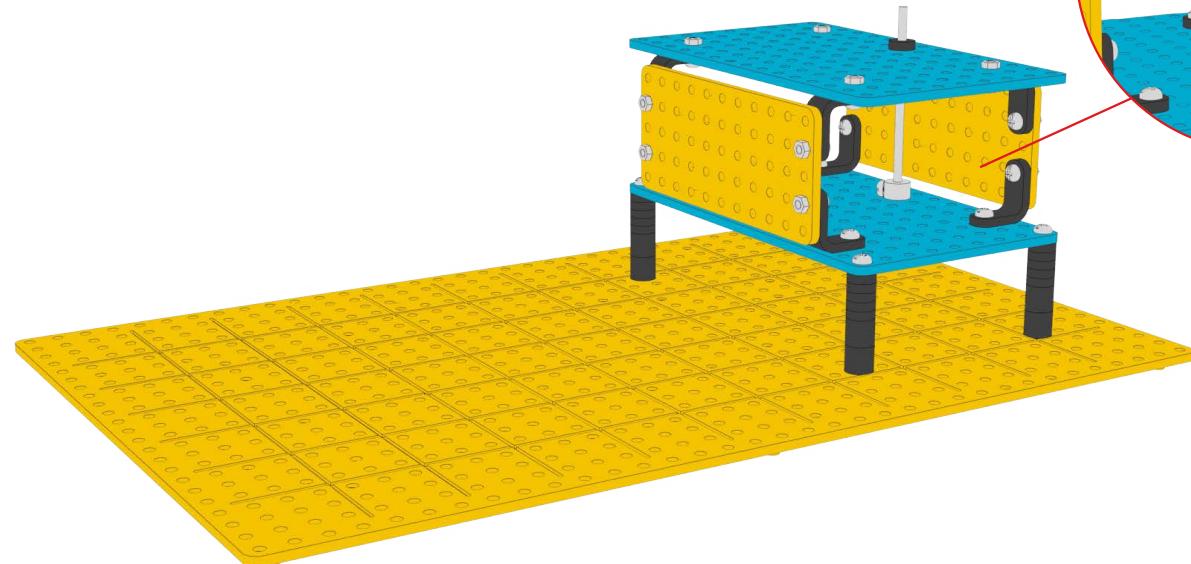
Paso 4

- 1 Plancha 9x15 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 



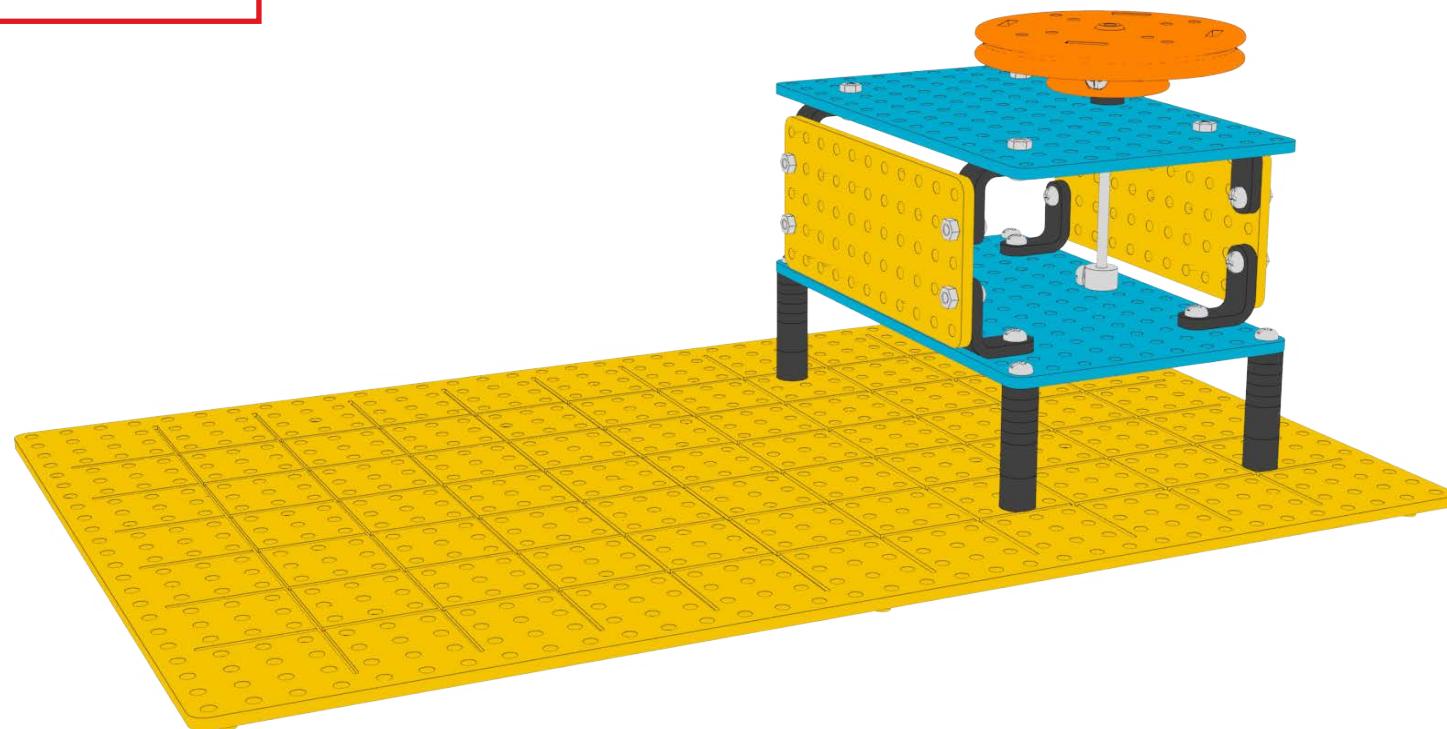
Paso 5

- 1 Eje 7,2 
- 1 Ajuste de eje 
- 1 Separadores de goma 3mm 



Paso 6

1 Polea grande naranja



Paso 7

1 Soporte de motor



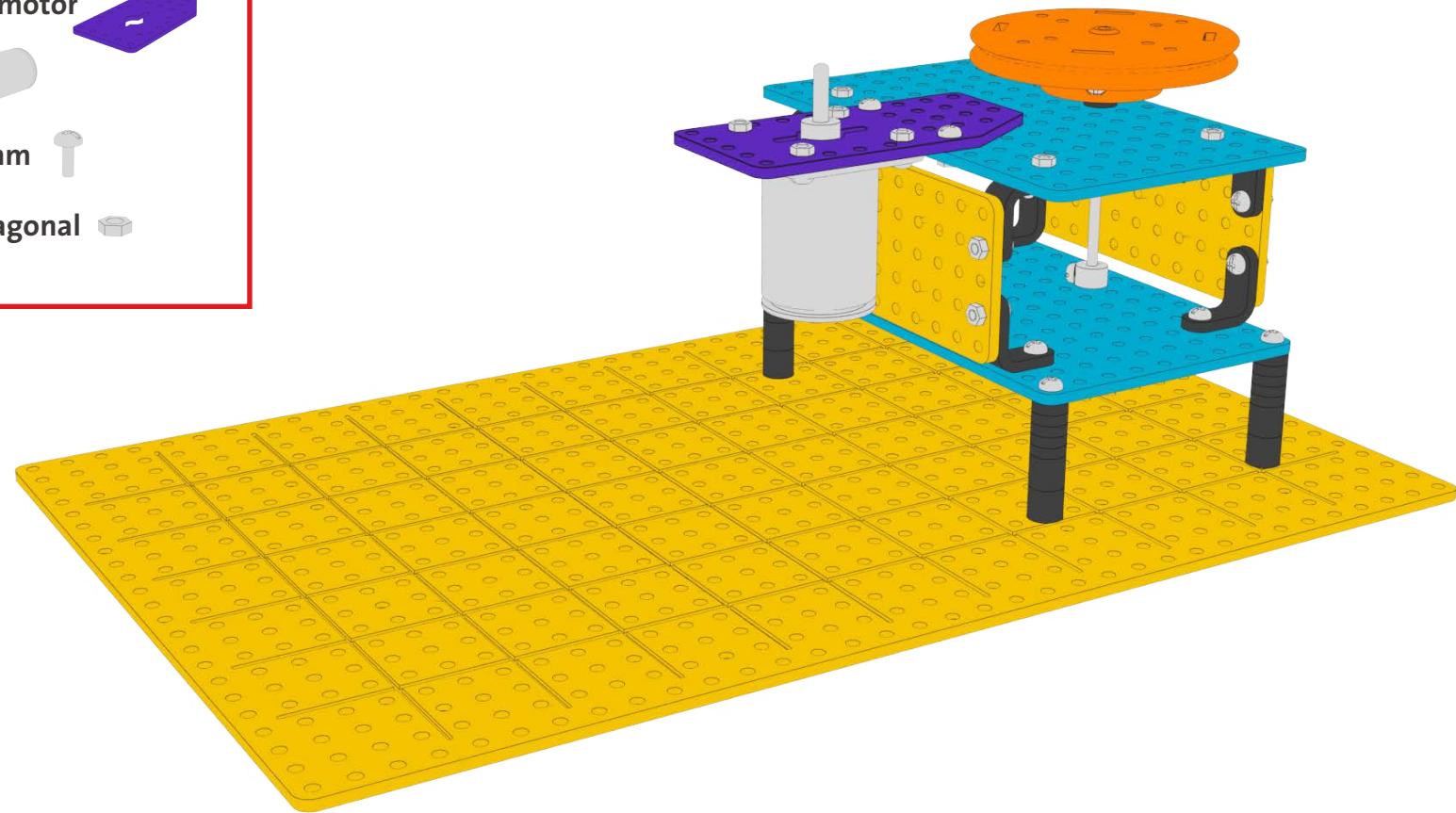
1 Motor



6 Tornillo 8 mm

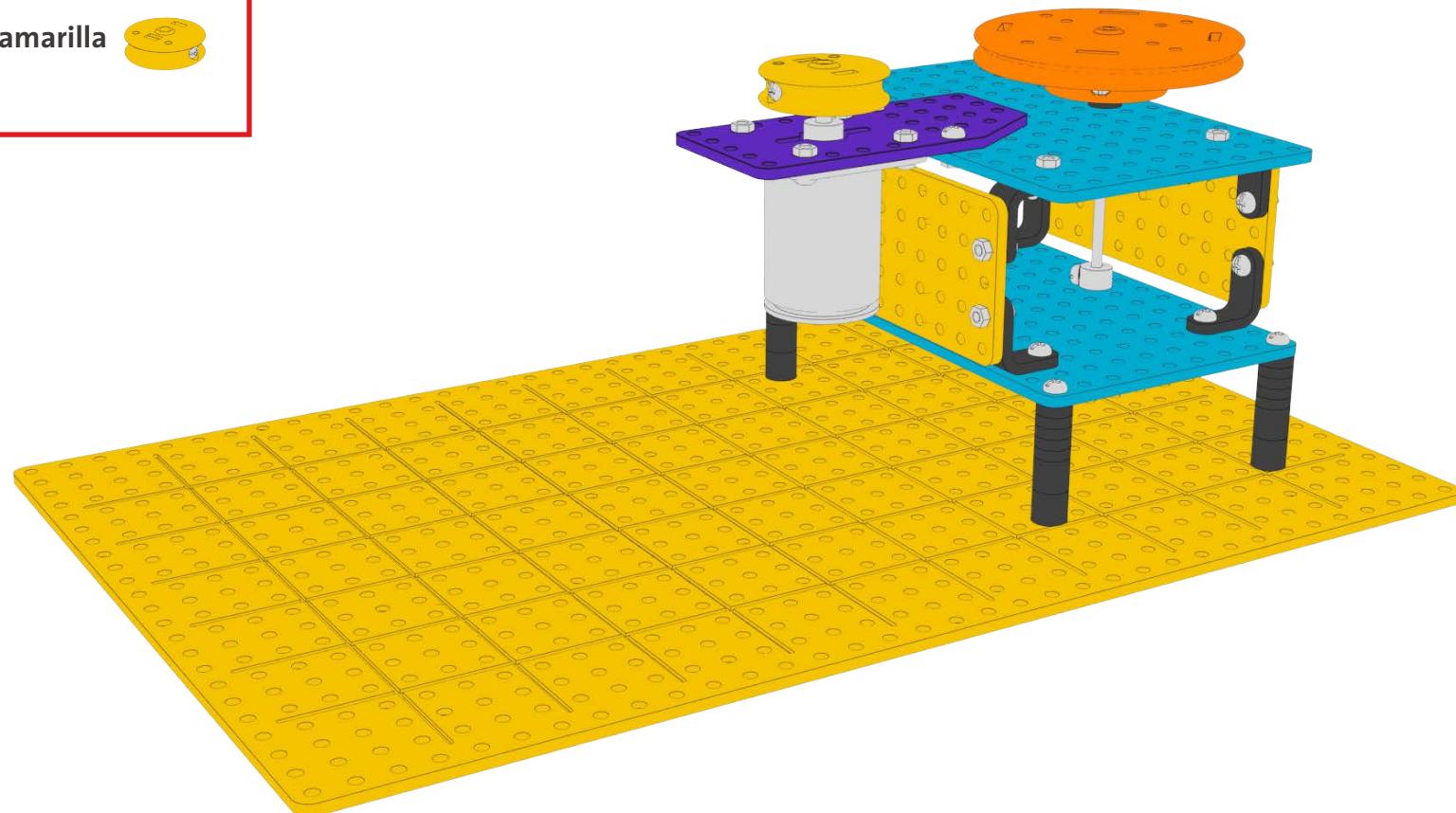


6 Tuerca hexagonal



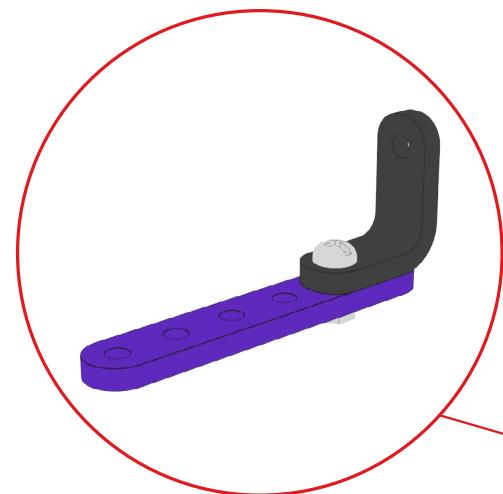
Paso 8

- 1 Polea chica amarilla 



Paso 9

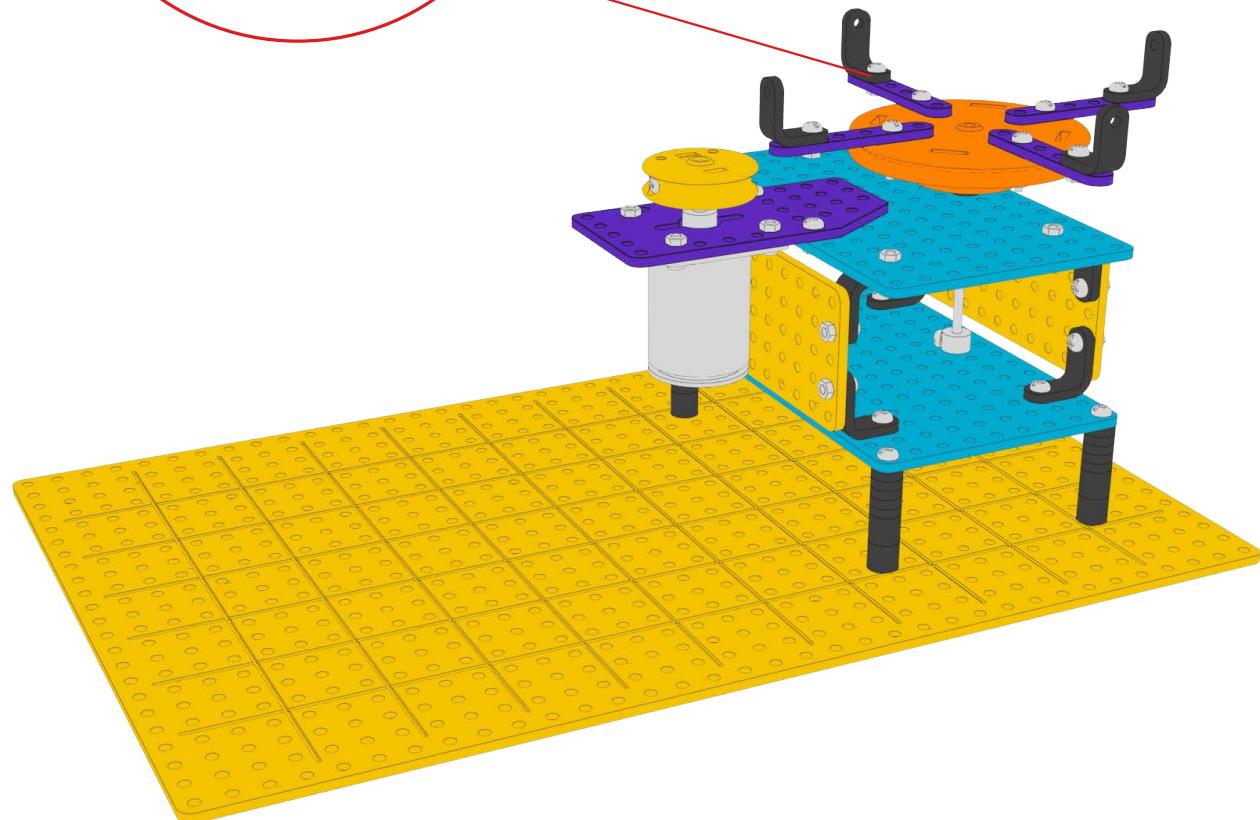
- 4 Languero 6 
- 4 L 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 



Paso 10

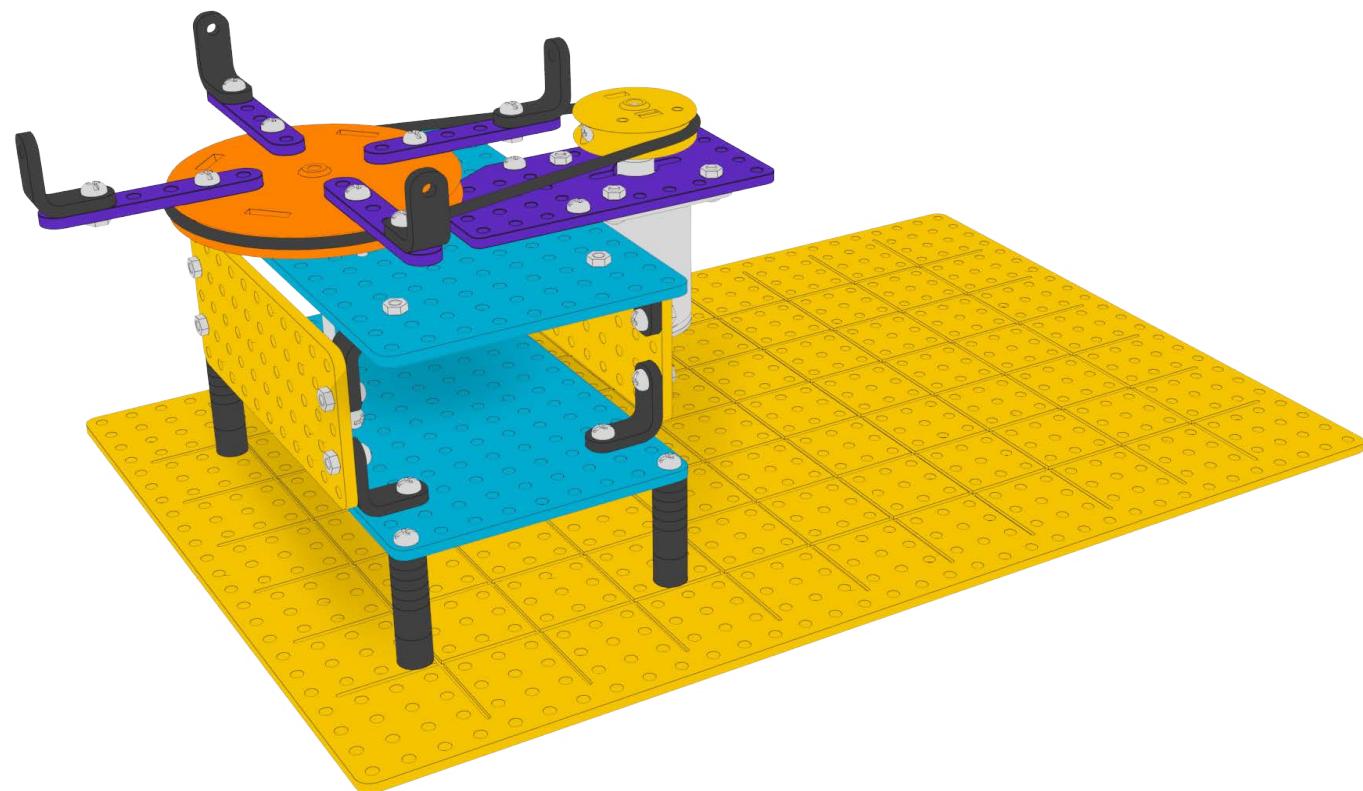
Unir armado del PASO 9 a la polea grande naranja

- 4 Tornillo 16 mm 
- 4 Tuerca hexagonal 



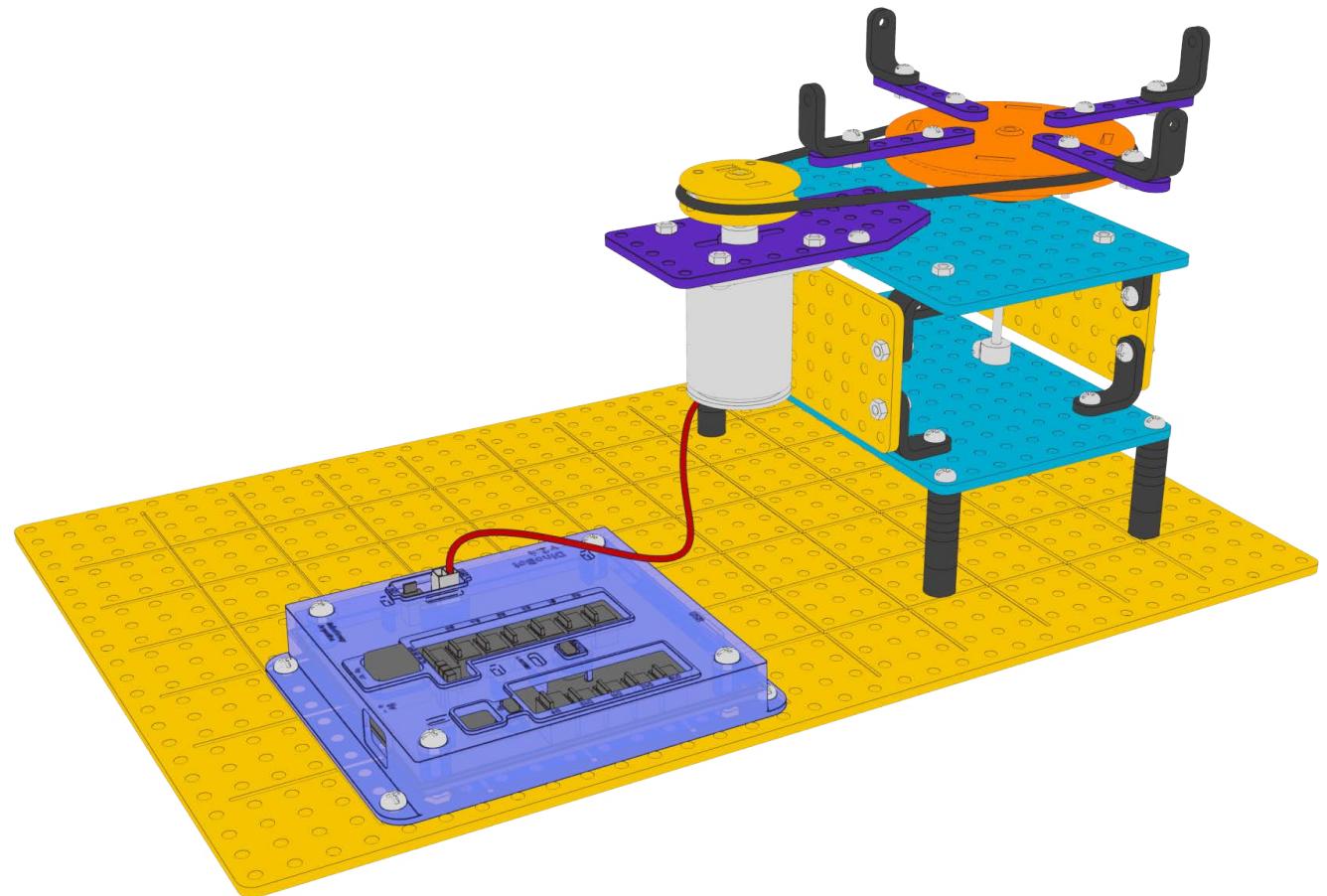
Paso 11

1 O-ring 154



Paso 12

- 1 Placa 
- 1 Cable de motor 
- 4 Tornillo 8 mm 
- 4 Tuerca hexagonal 



Paso 13

- 1 Portapilas 
- 4 Pilas 
- 2 Tornillo 12 mm 
- 2 Tuerca hexagonal 
- 2 Separadores de goma 3mm 

