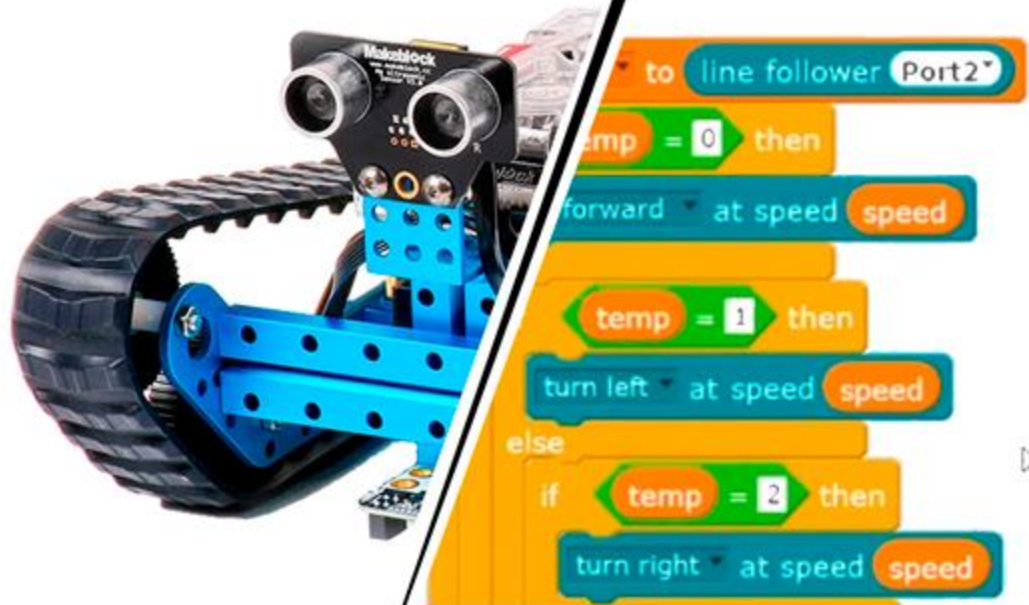




mBot Ranger

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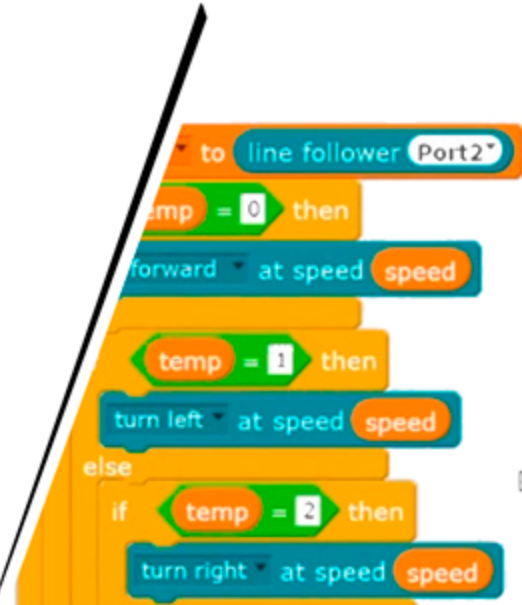
- Blog de referencia
- Componentes
- Montaxe

mBot Ranger

CFR Lugo 17/18

jose pino vázquez

- Instalación
- Os tres modos de firmware
- Programación secuencial
- Programación estructurada



mBot Ranger

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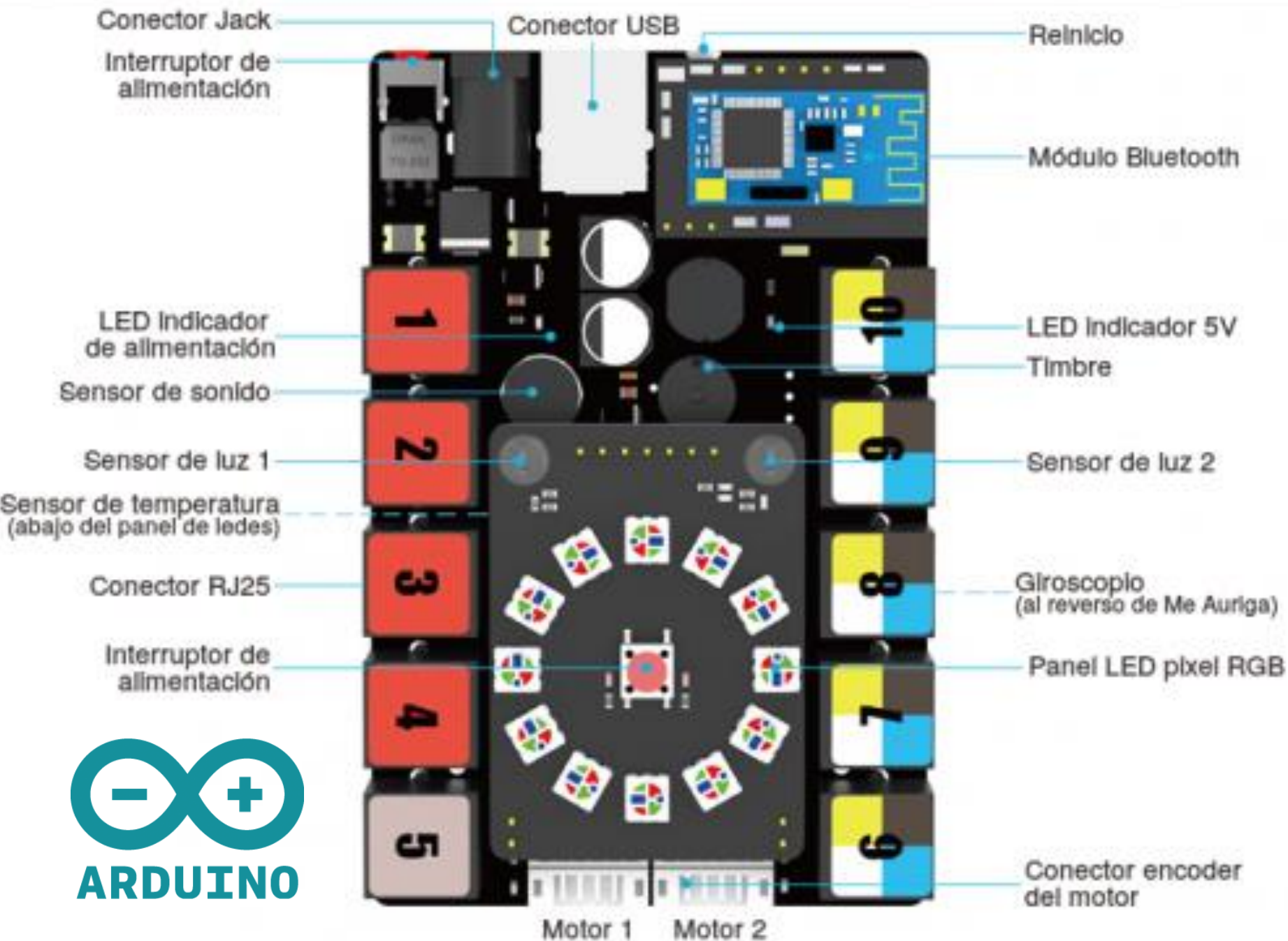
jose pino vázquez



▣ Roboticanaaula.blogspot.com

▣ Componentes

- ▤ SENSORES
- ▤ ACTUADORES
- ▤ PLACA CONTROLADORA
- ▤ VIGAS, RODAS..



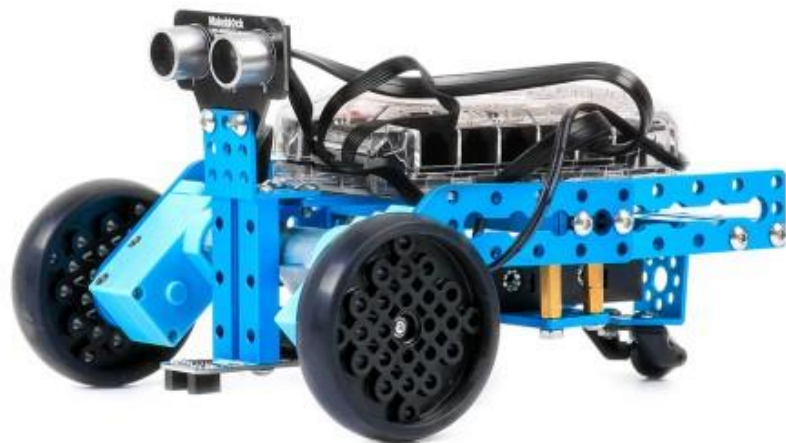


■ Roboticanaaula.blogspot.com

■ Componentes

- SENSORES
- ACTUADORES
- PLACA CONTROLADORA
- VIGAS, RODAS..

■ Tres modos de montaxe básicos







- Blog de referencia
- Componentes
- Montaxe

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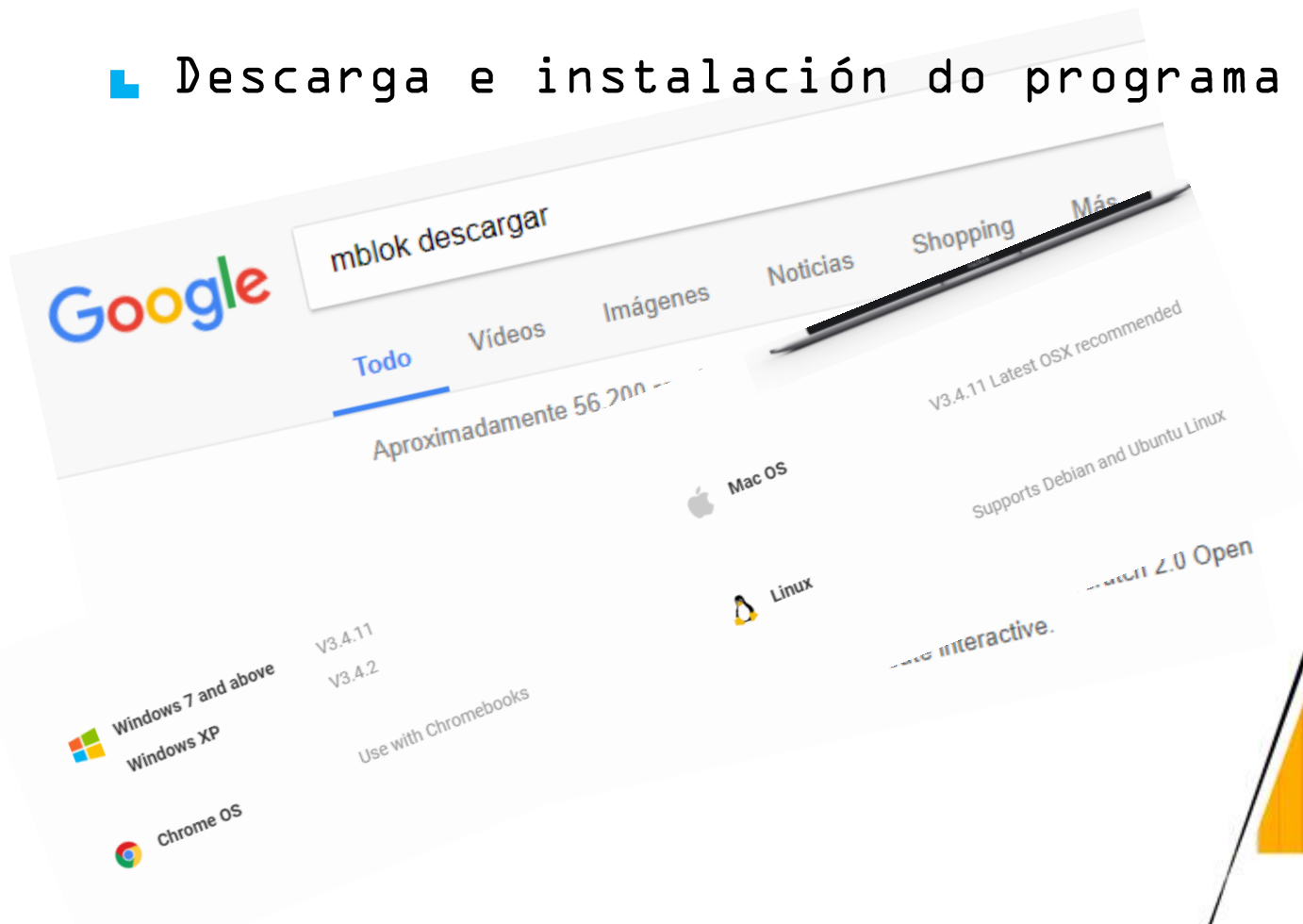
jose pino vázquez

mBot Ranger

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jose pino vázquez

■ Descarga e instalación do programa



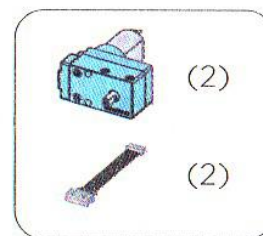
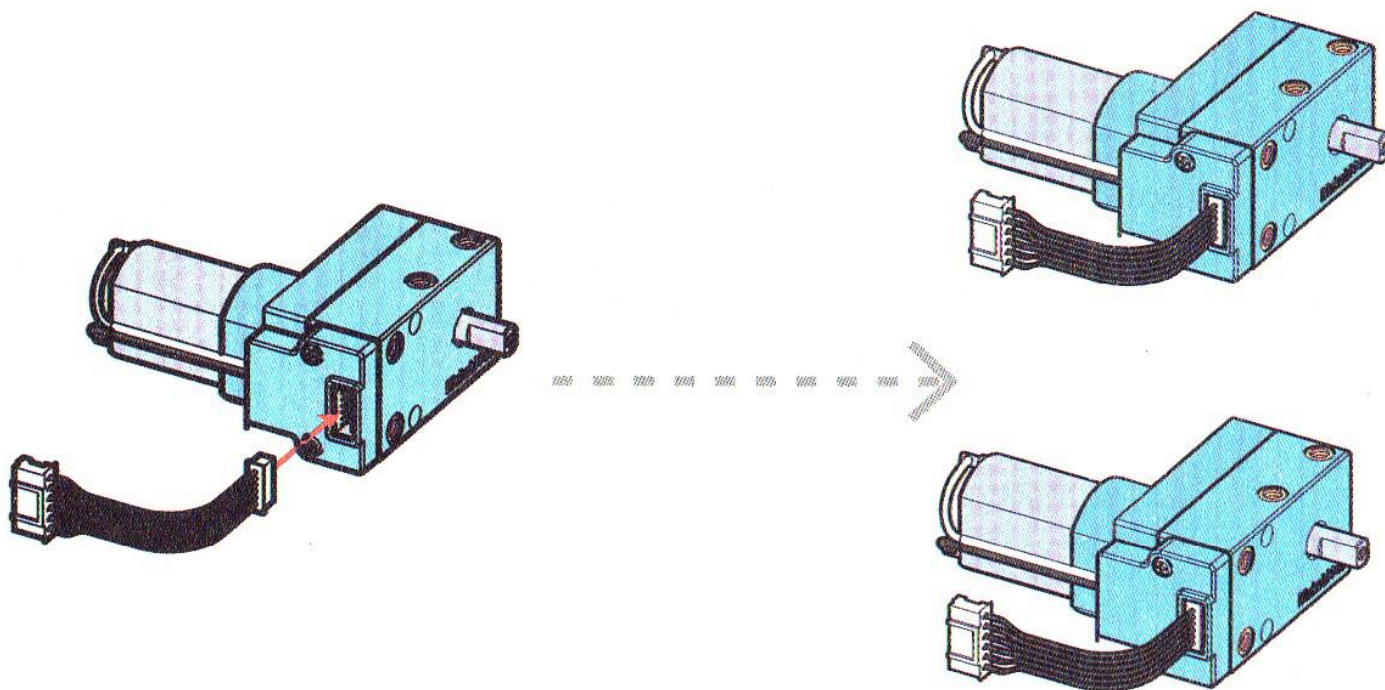


- Blog de referencia
- Componentes
- Montaxe

mBot Ranger

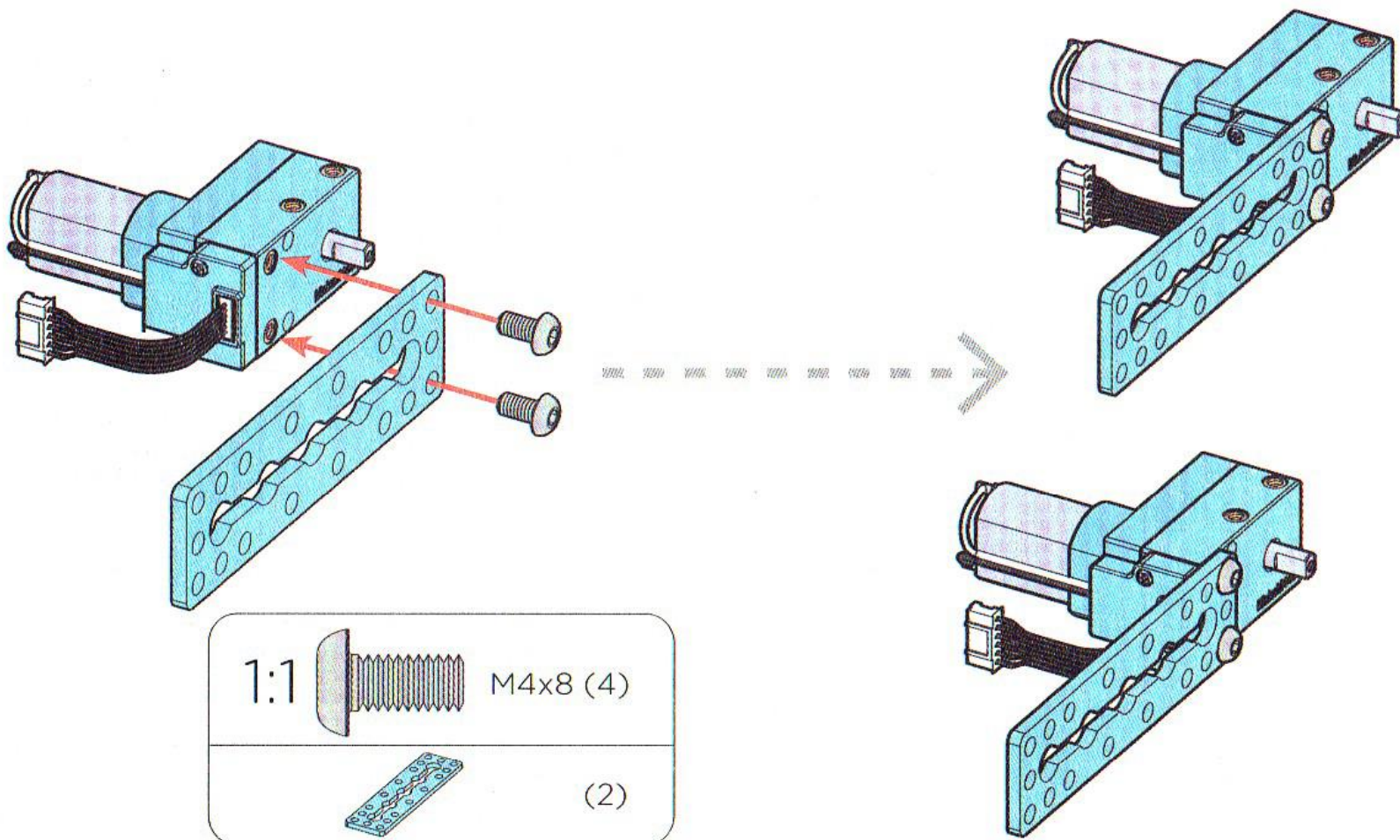
CFR Lugo 17/18

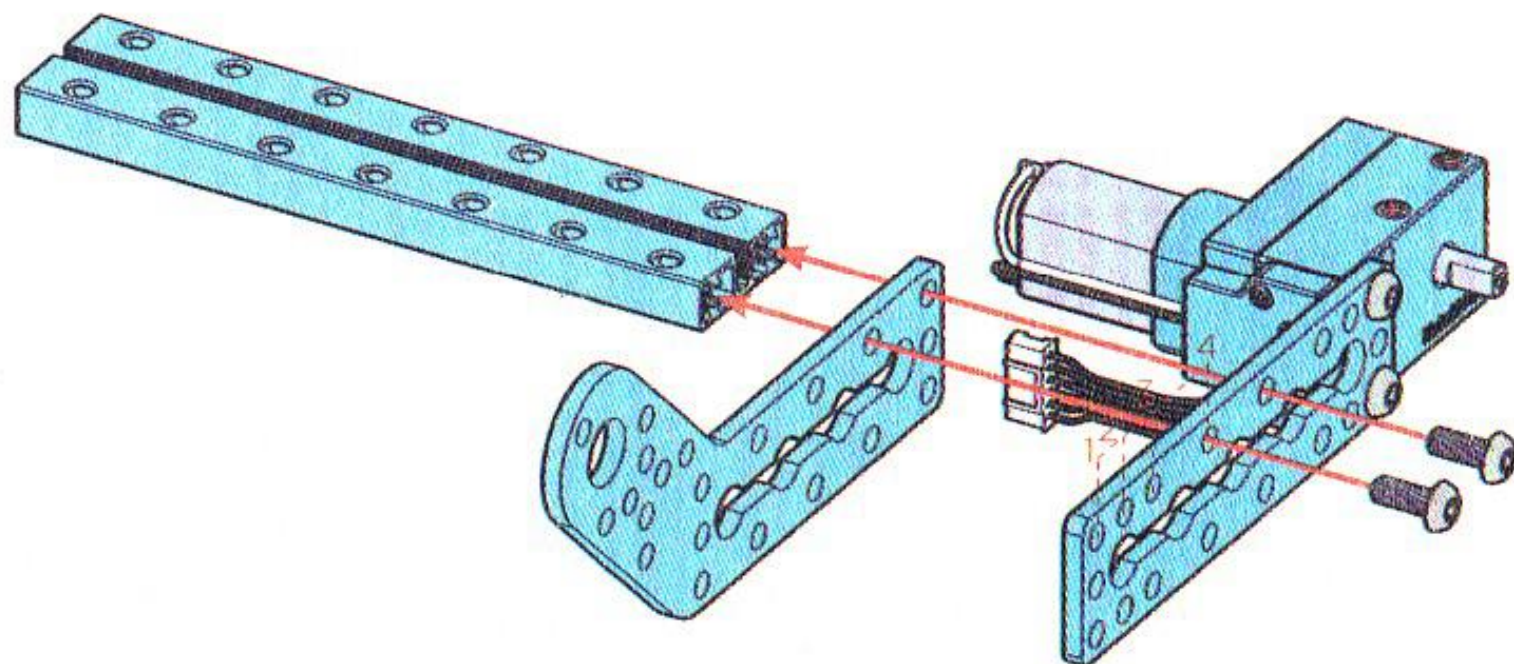
jose pino vázquez



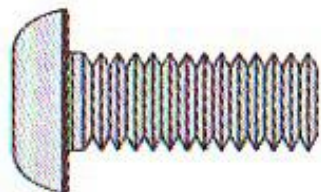
CFR Lugo 17/18

jose pino vázquez





1:1



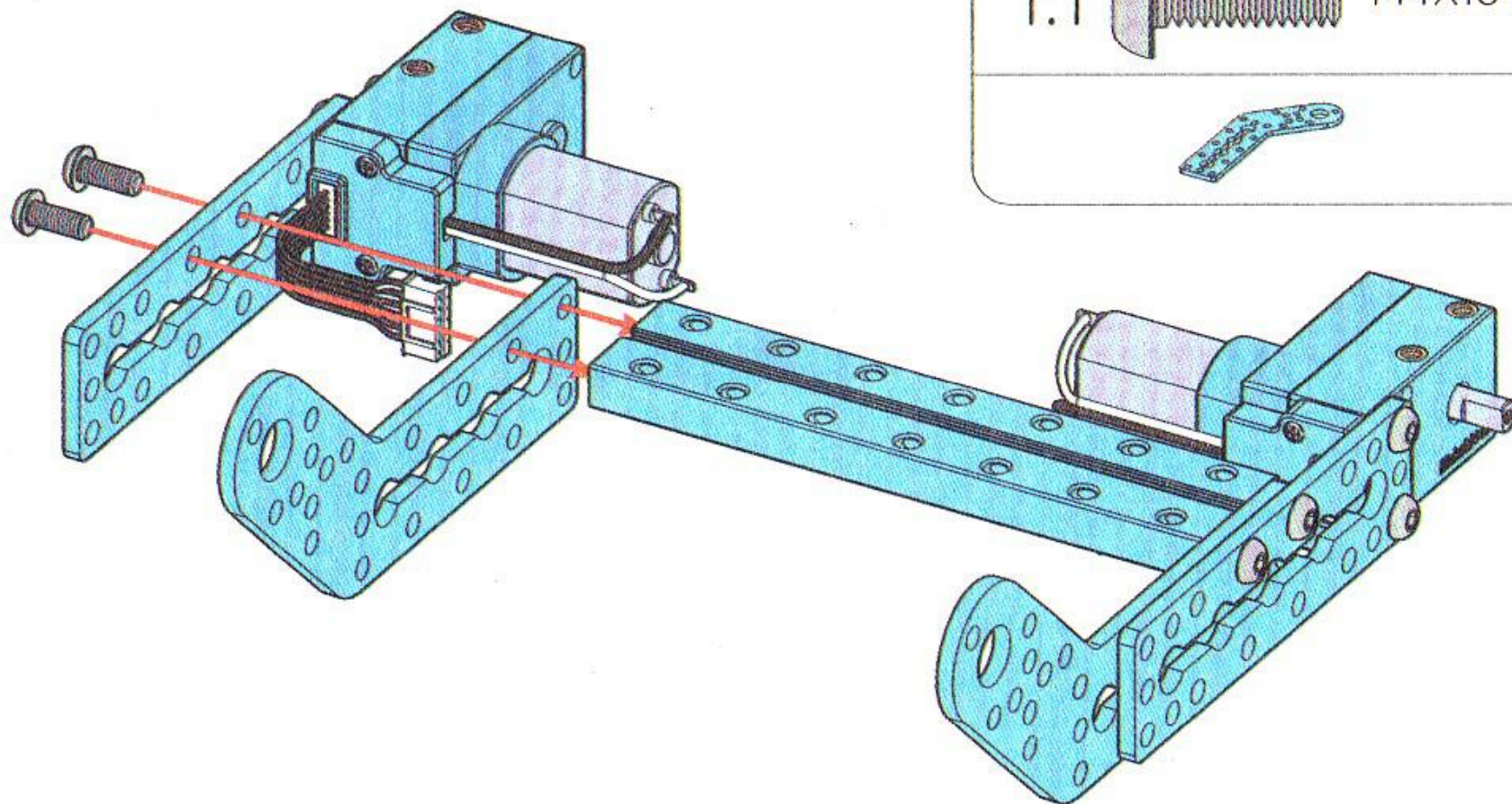
M4x10 (2)



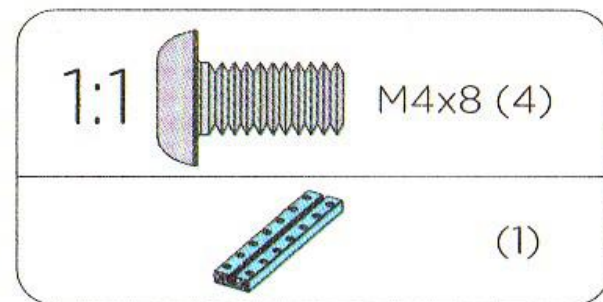
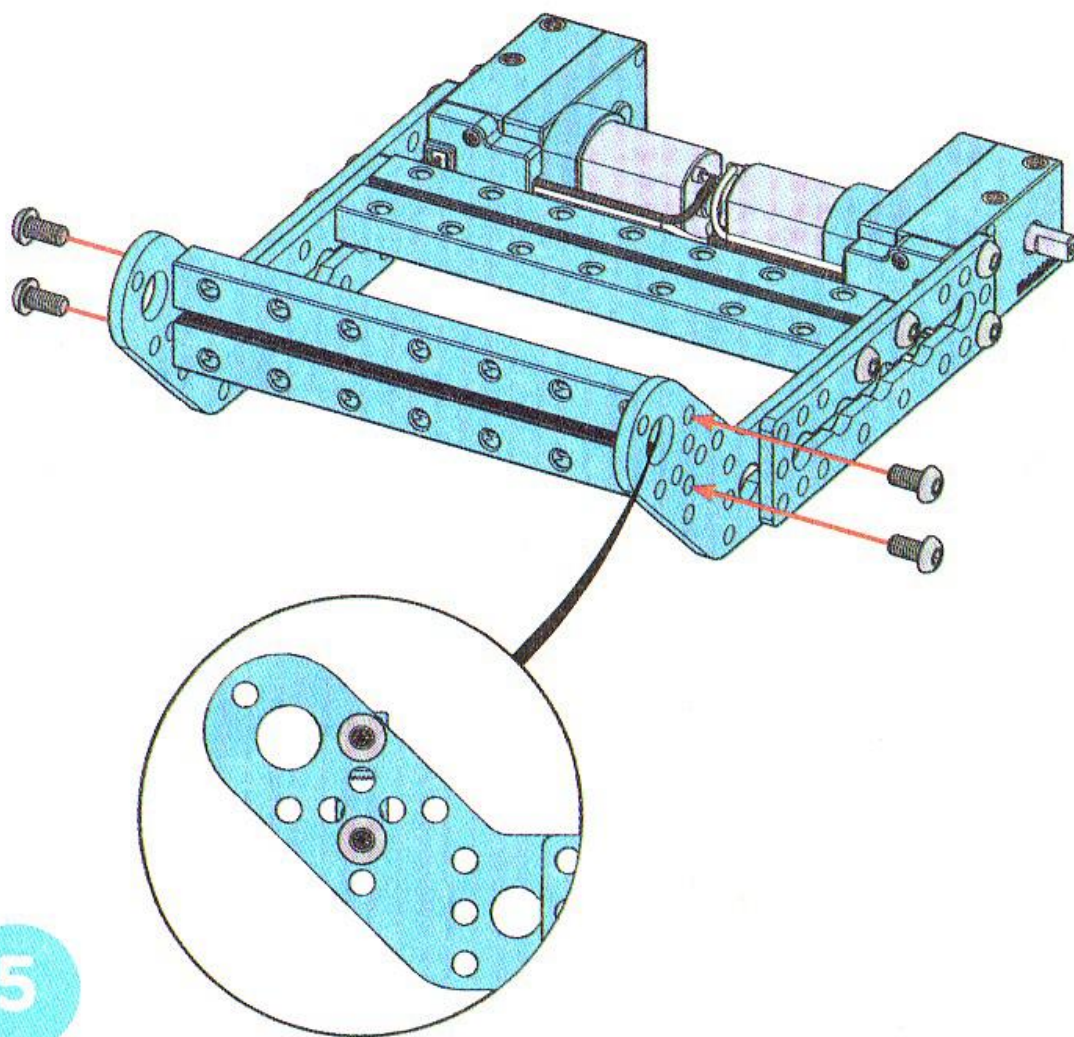
(1)



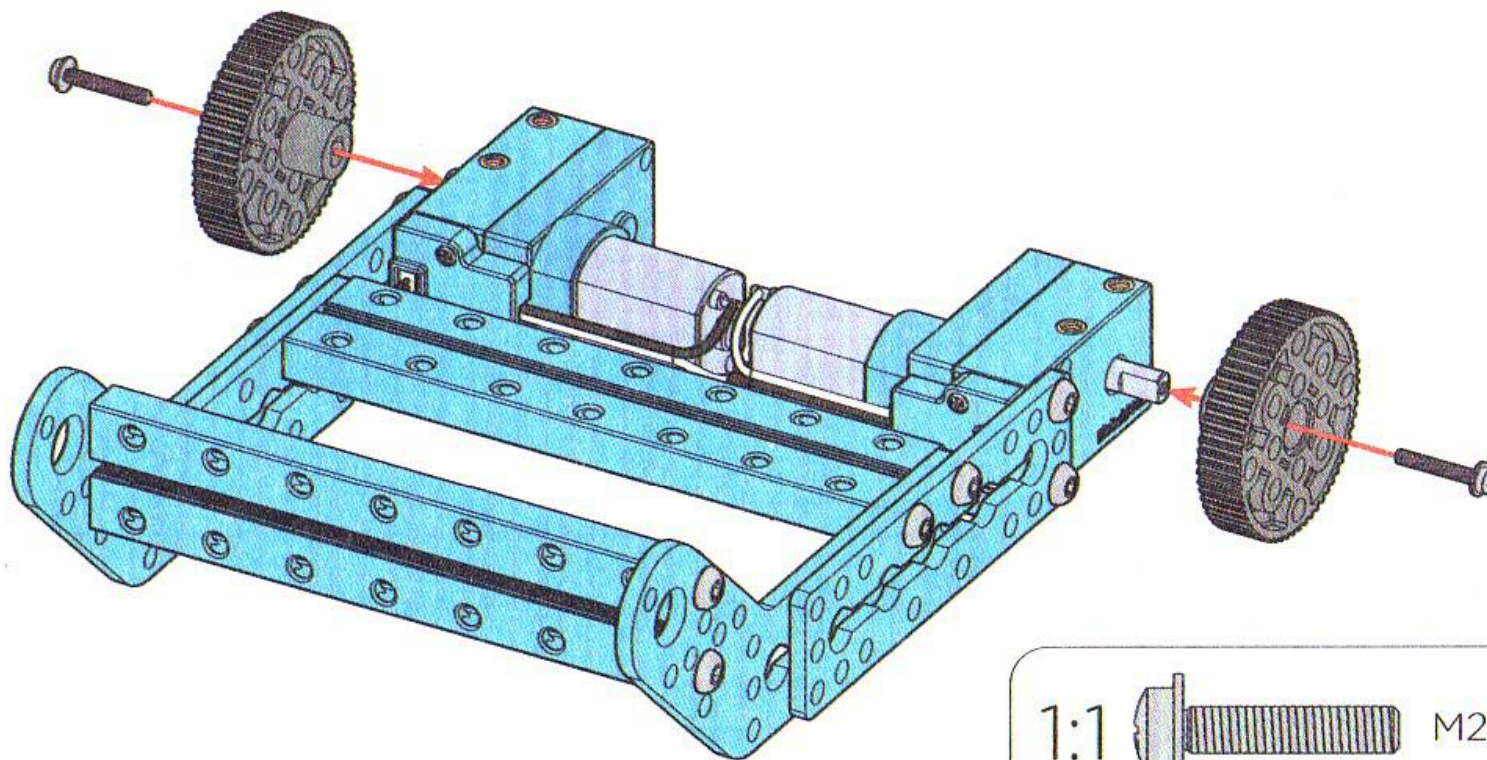
(1)



5



- * Nota: Existen dos tipos de rudas negras.
Por favor usar la mas pequeña: Rueda 62T

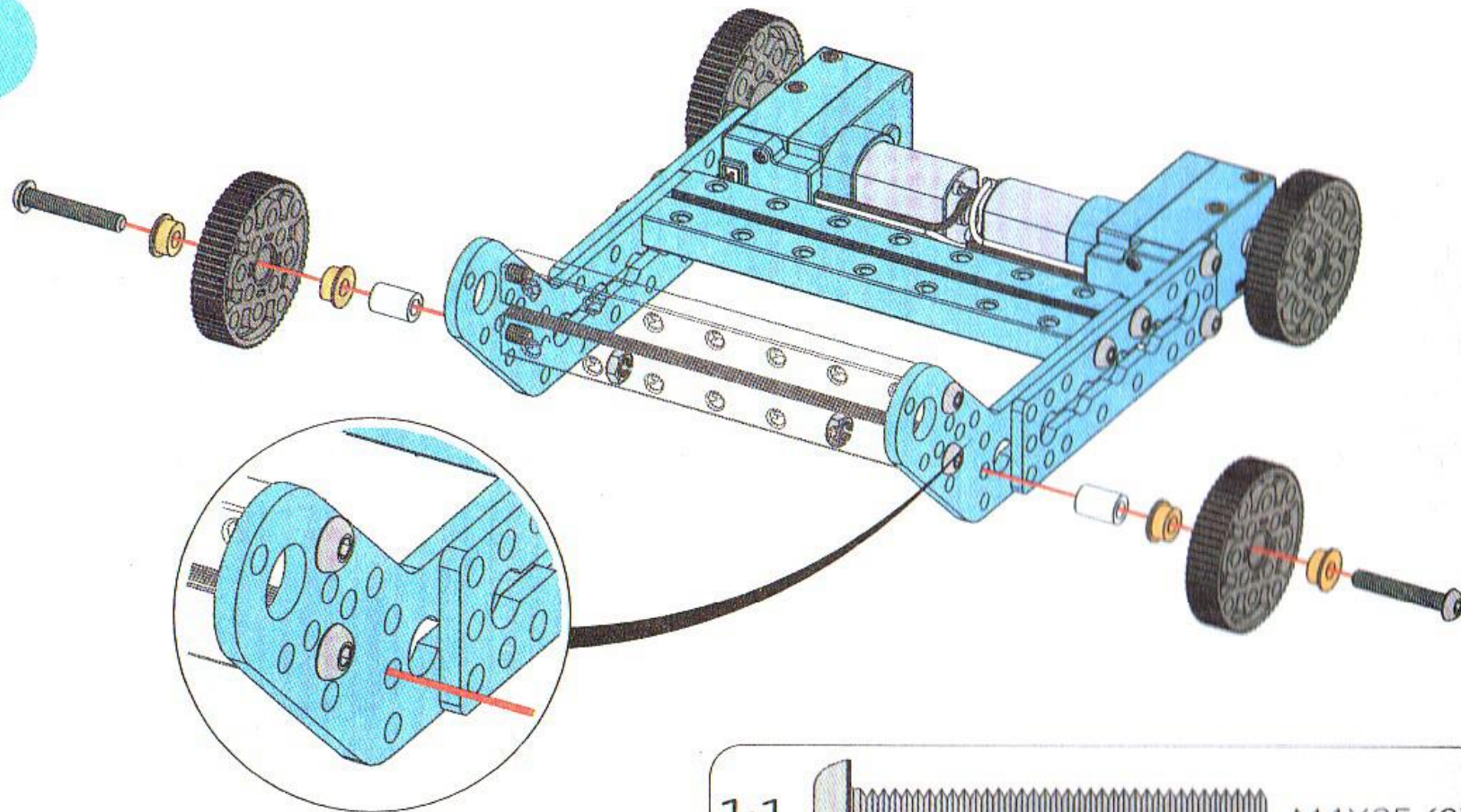


1:1  M2.5X12 (2)

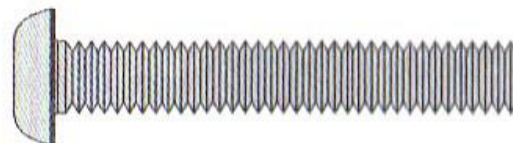


(2)

7



1:1



M4X25 (2)



(2)



(2)

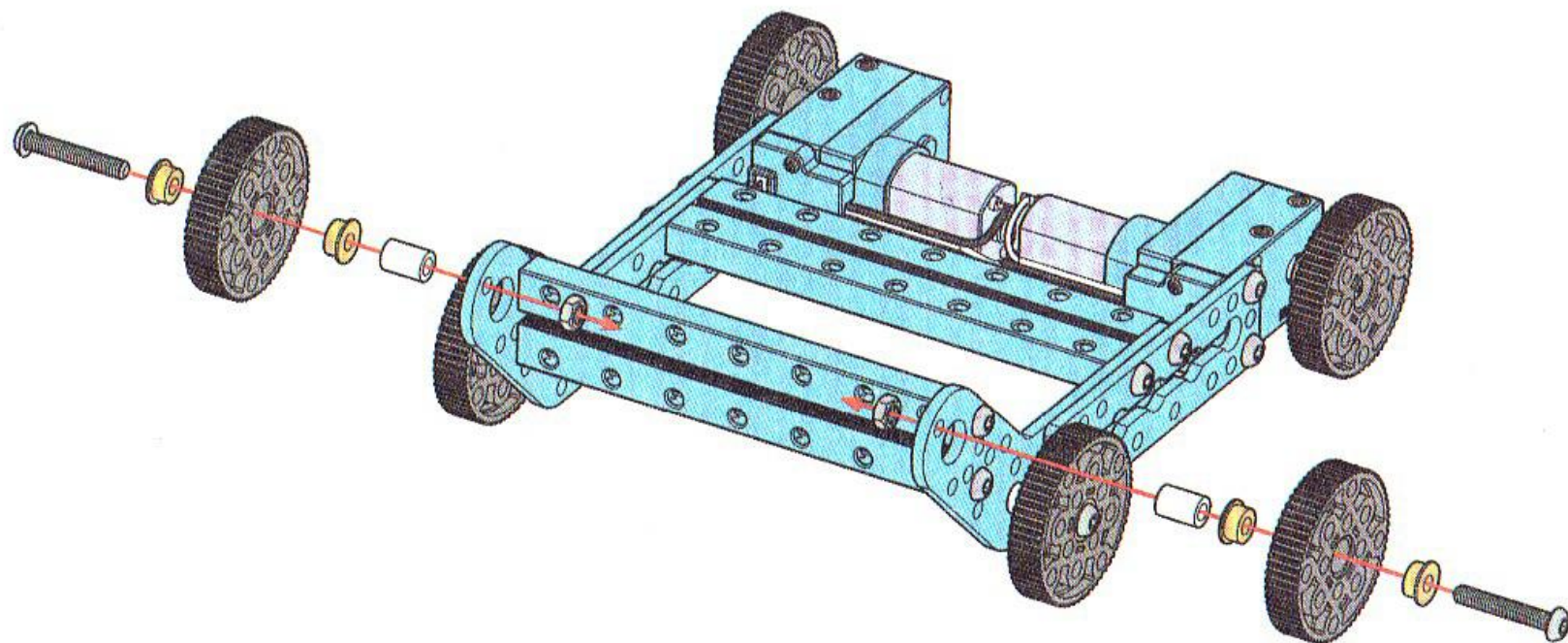


(4)



(2)

Nota: Por favor mirar la página sobre "Manejo de las herramientas" para usar la llave inglesa para apretar los tornillos



1:1



M4X25 (2)



(2)



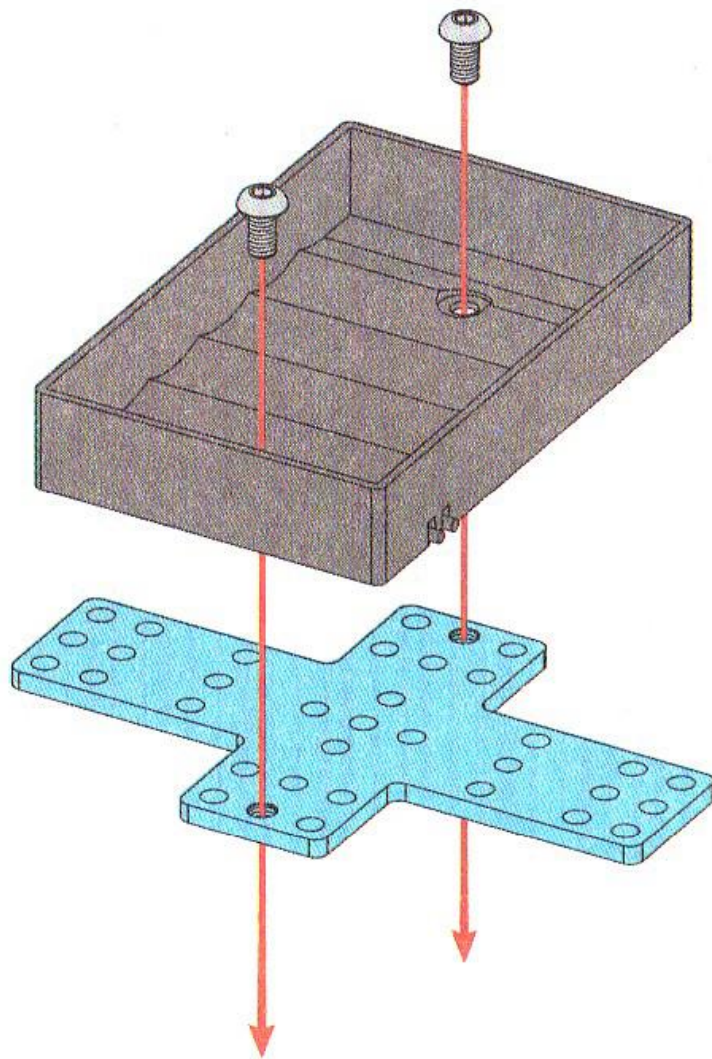
(2)



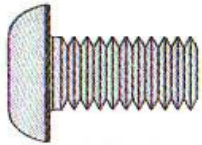
(4)



(2)



1:1



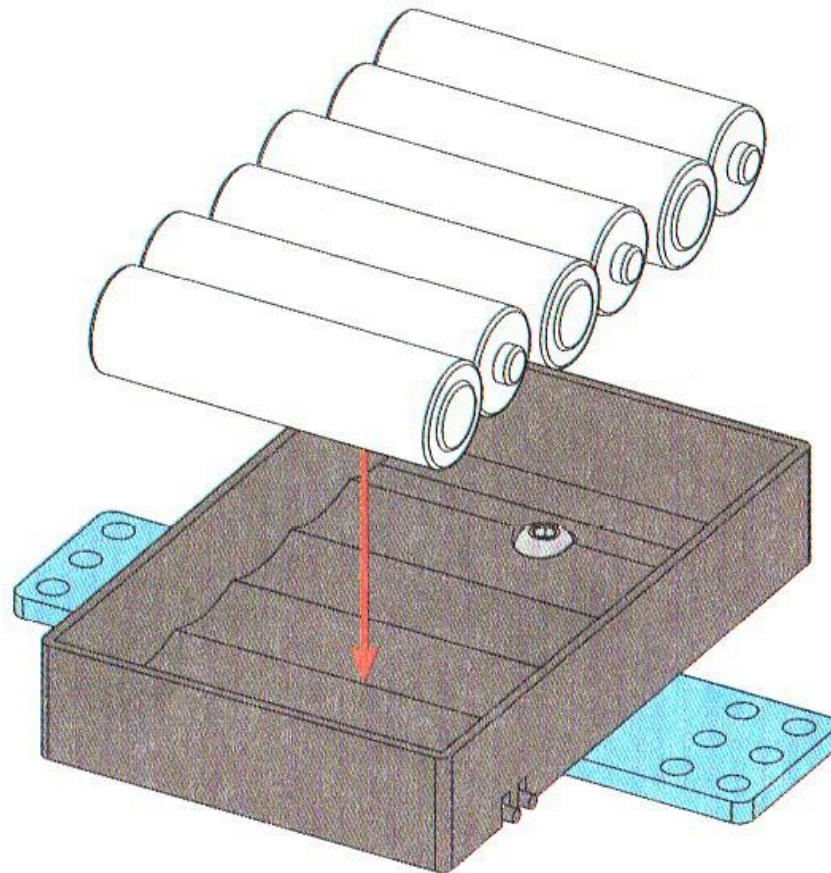
M4x8 (2)



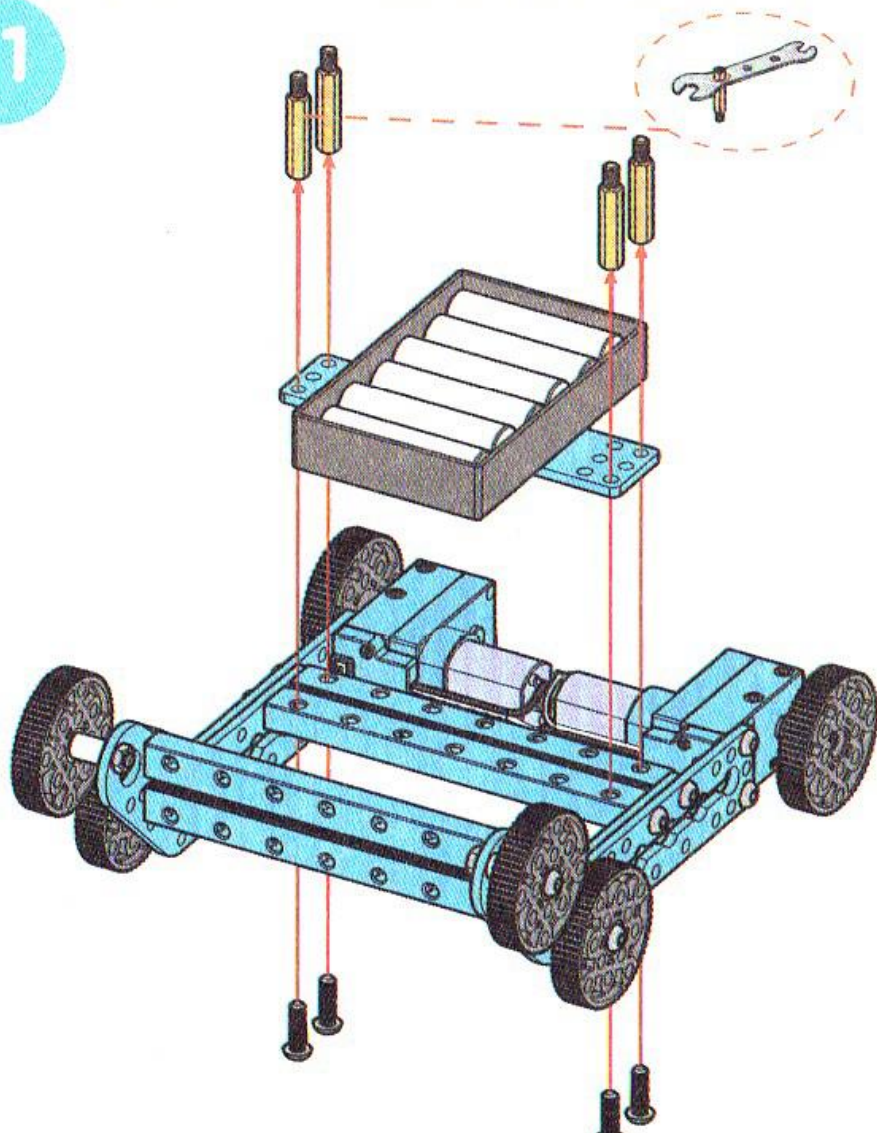
(1)



(1)



***Nota: Las baterías AA no están incluidas en el kit**



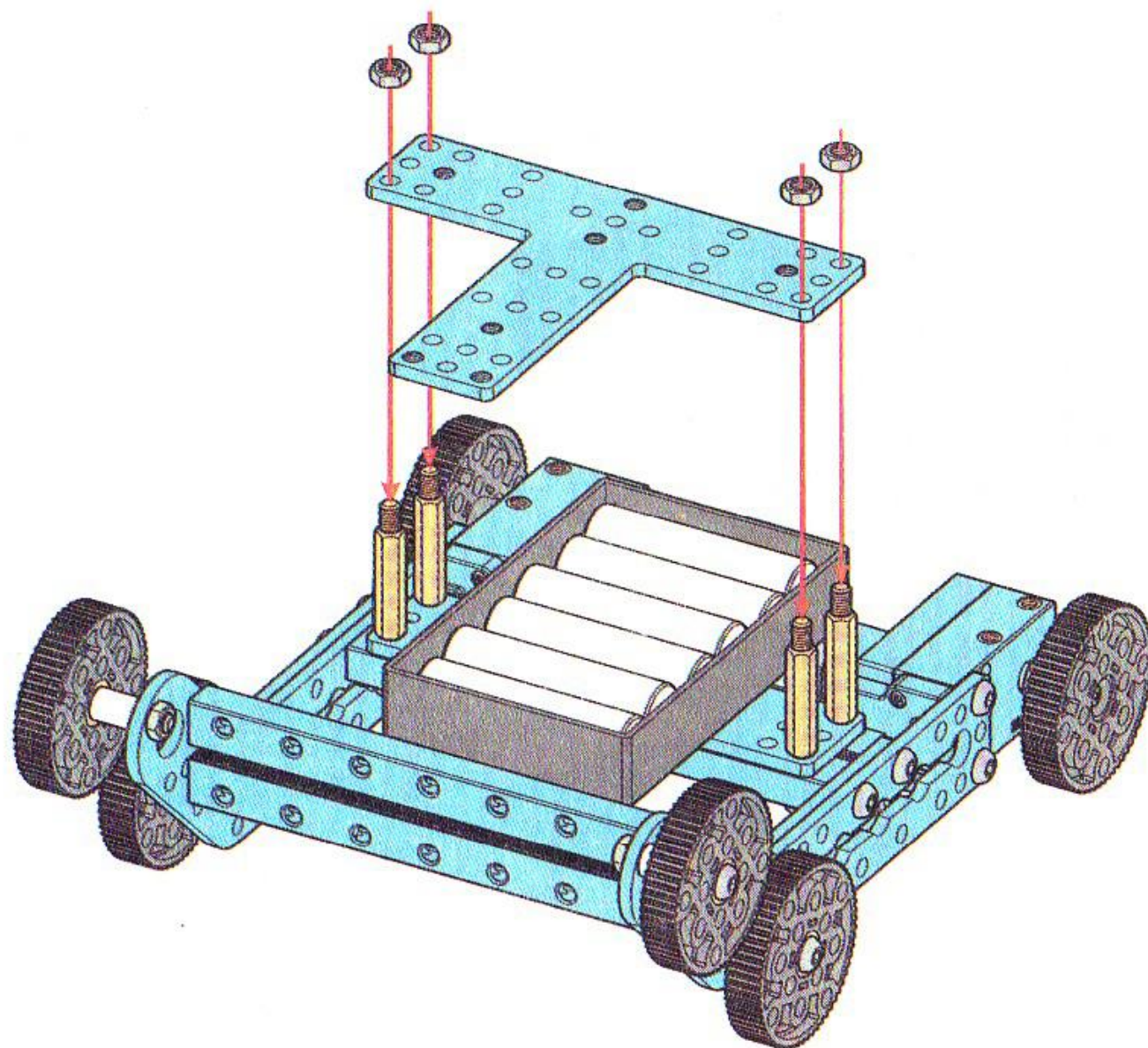
1:1



M4x14 (4)



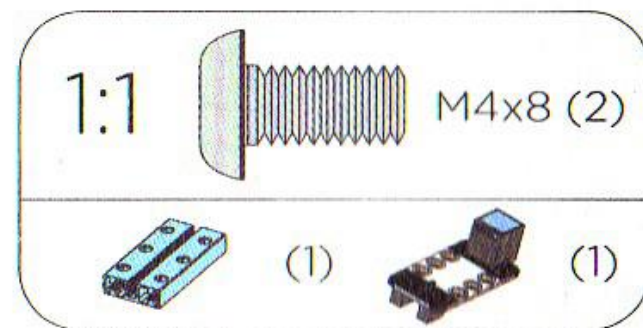
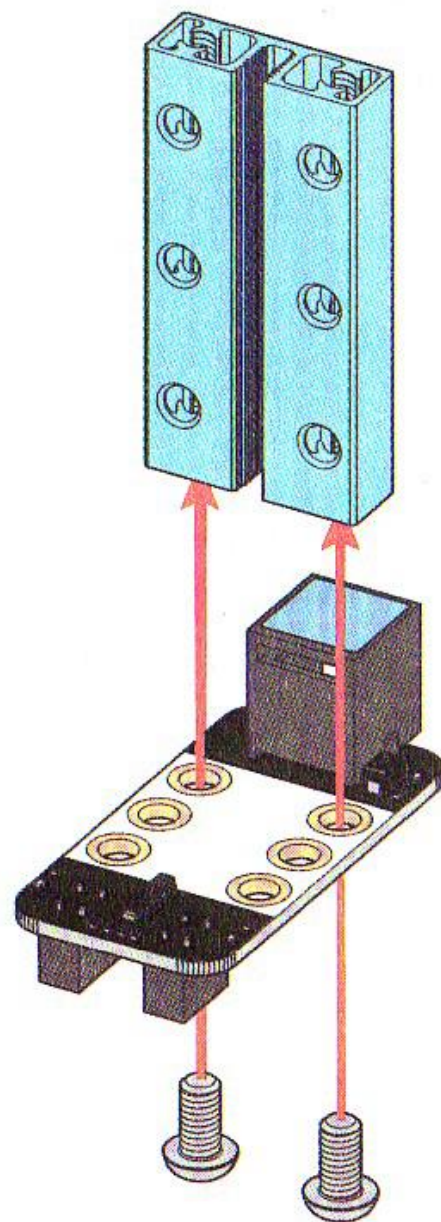
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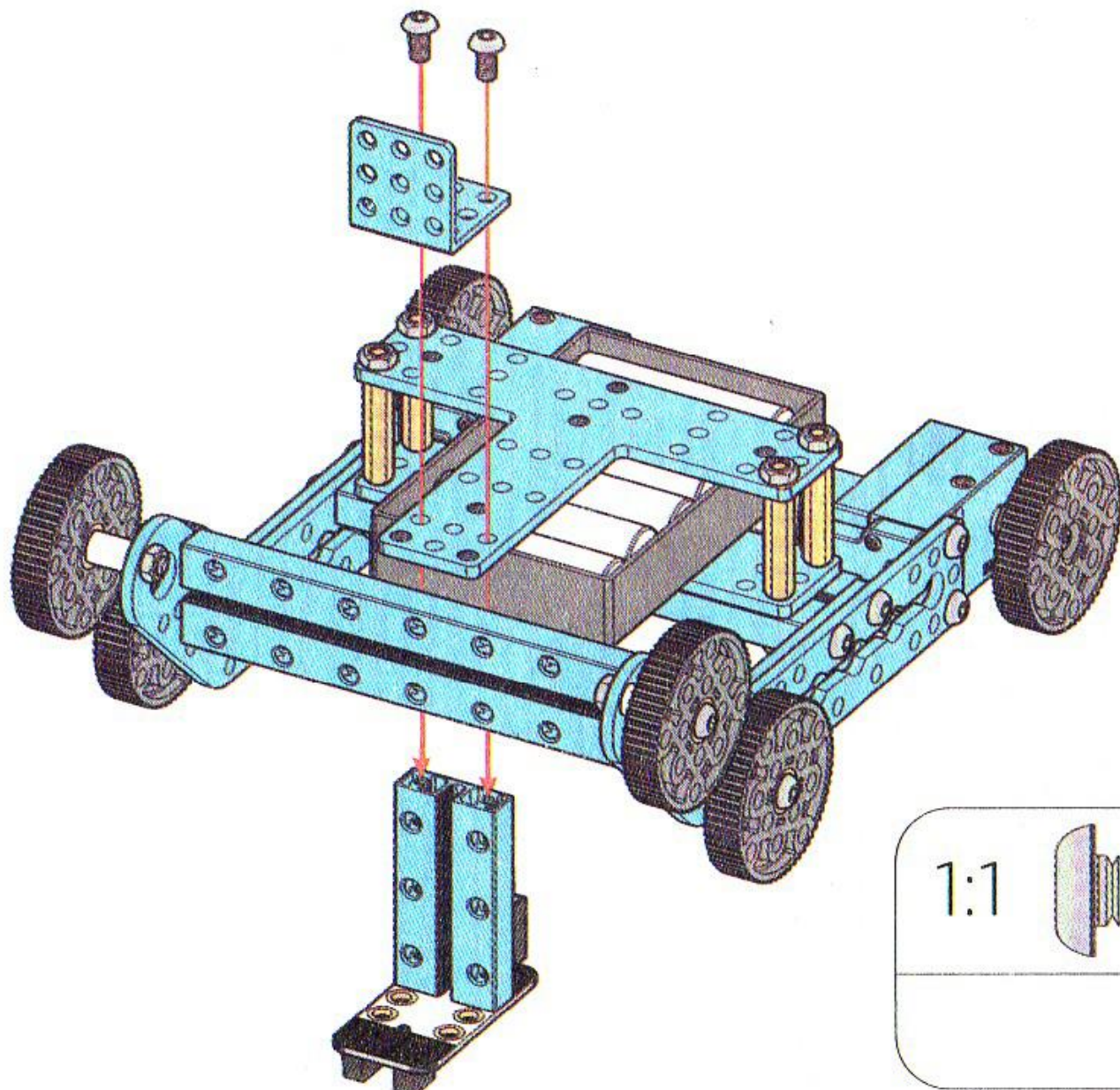


(1)

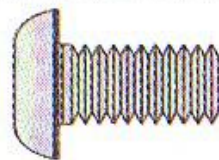


(4)





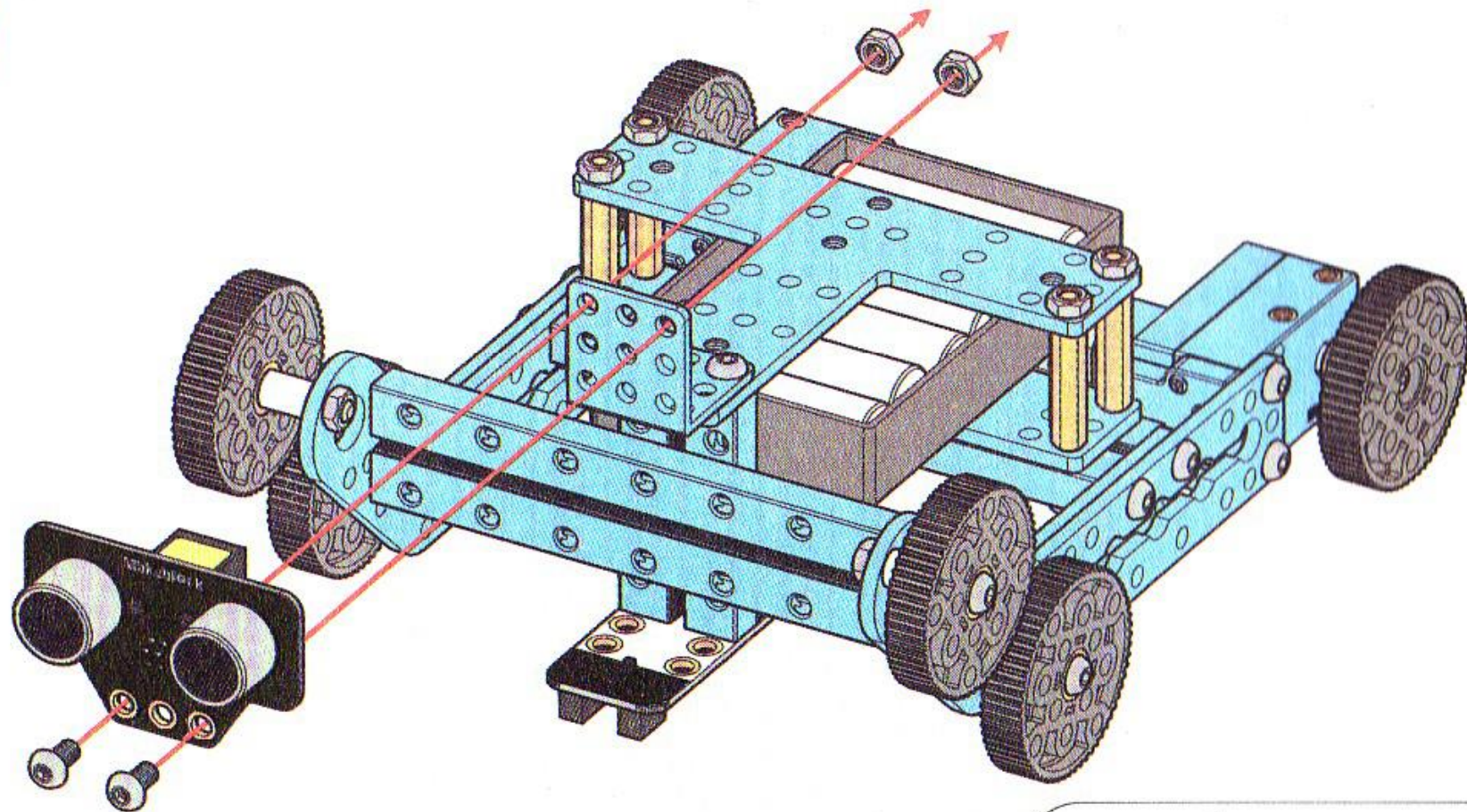
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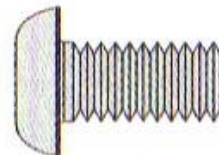
M4x8 (2)



(1)



1:1



M4x8 (2)

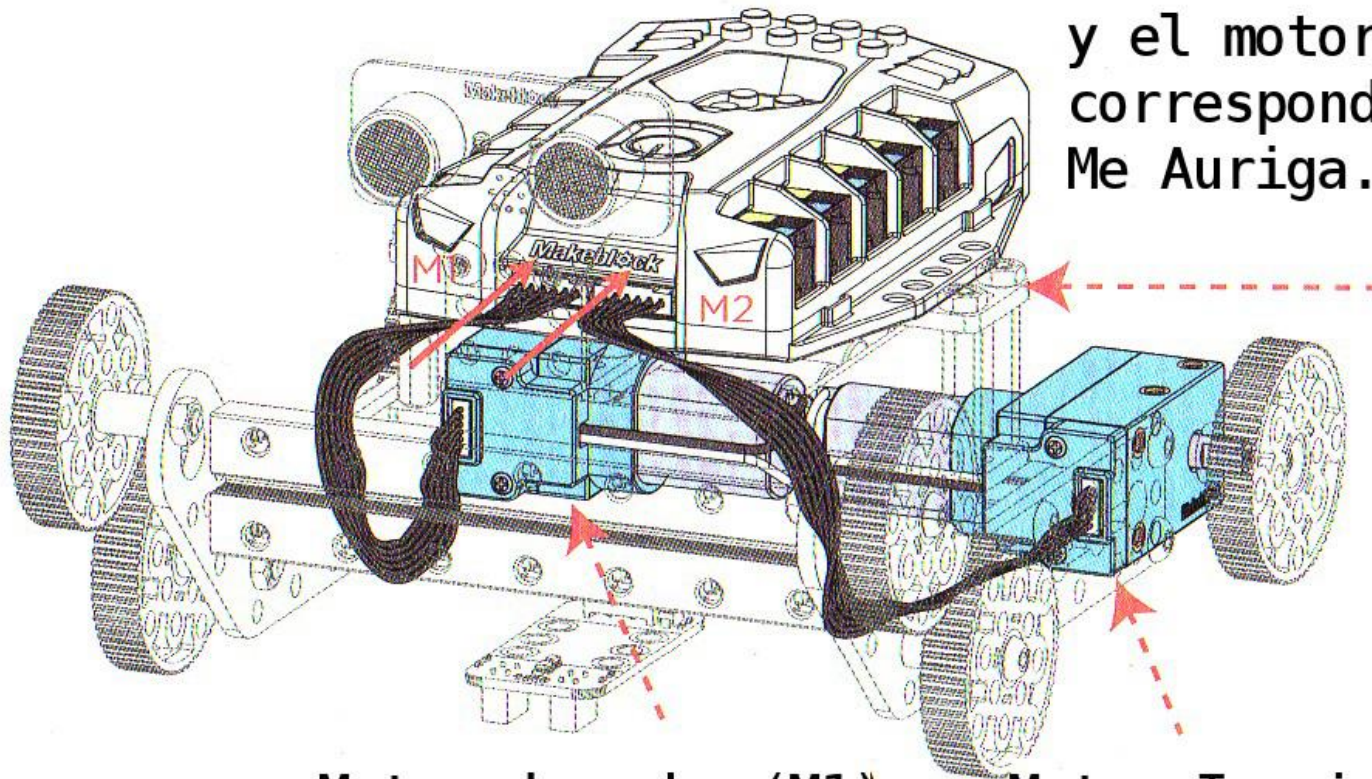


(1)



(2)

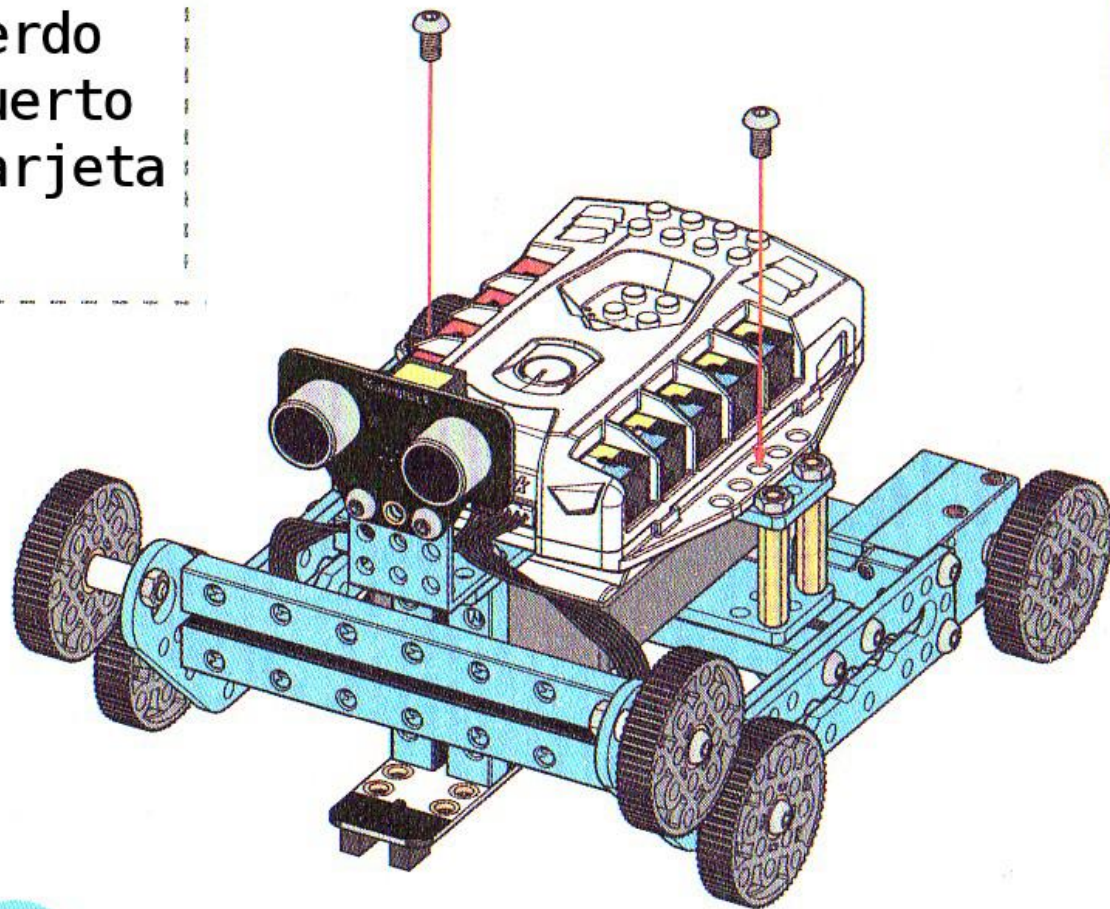
Conectar el motor izquierdo
y el motor derecho al puerto
correspondiente de la tarjeta
Me Auriga.



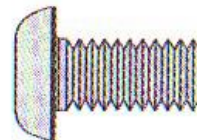
Motor derecho (M1)

Motor Izquierdo (M2)

ierdo
puerto
tarjeta



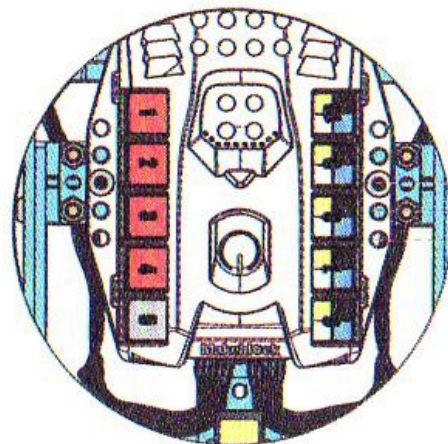
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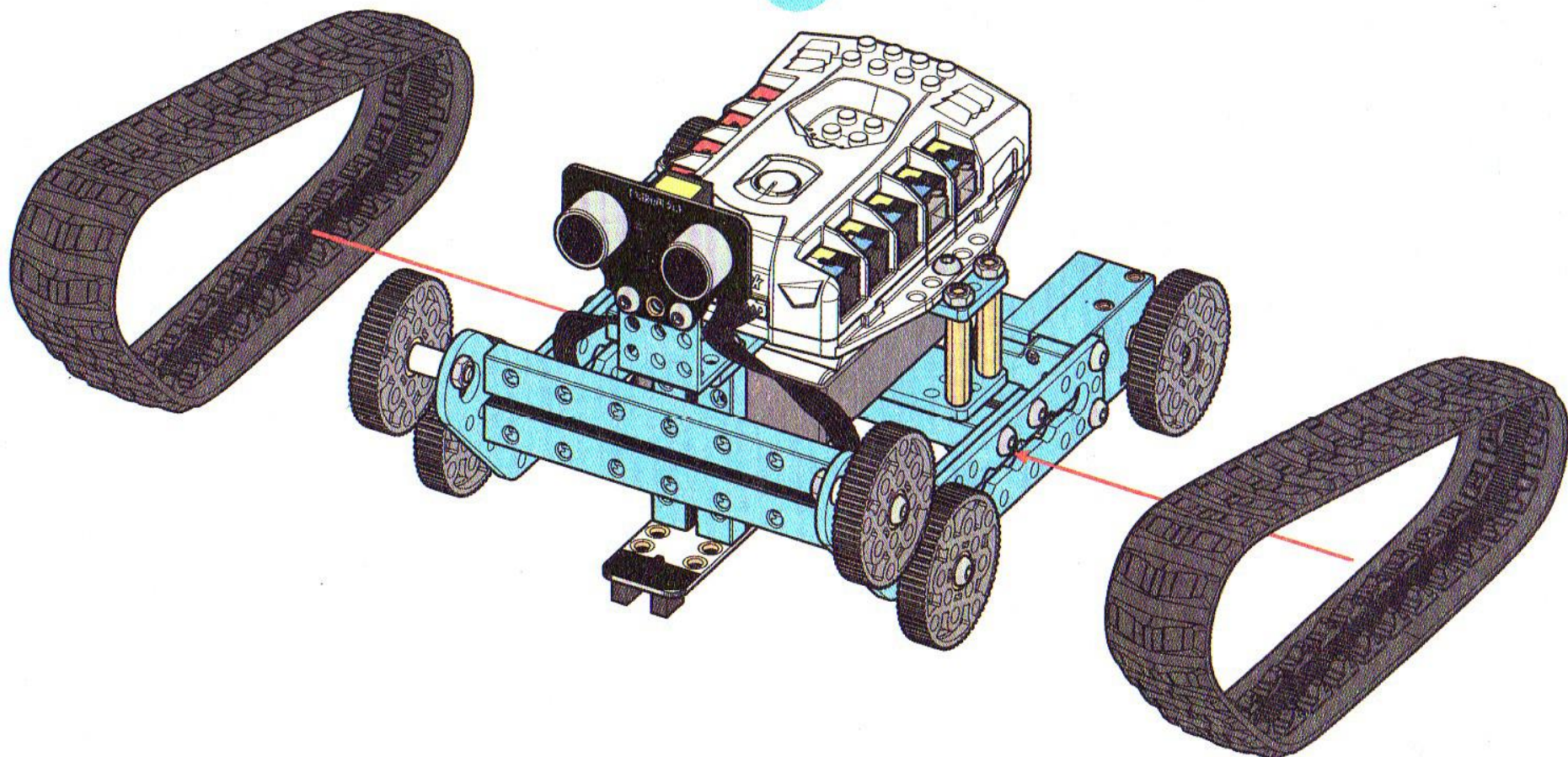
M4x8 (2)



(1)



18

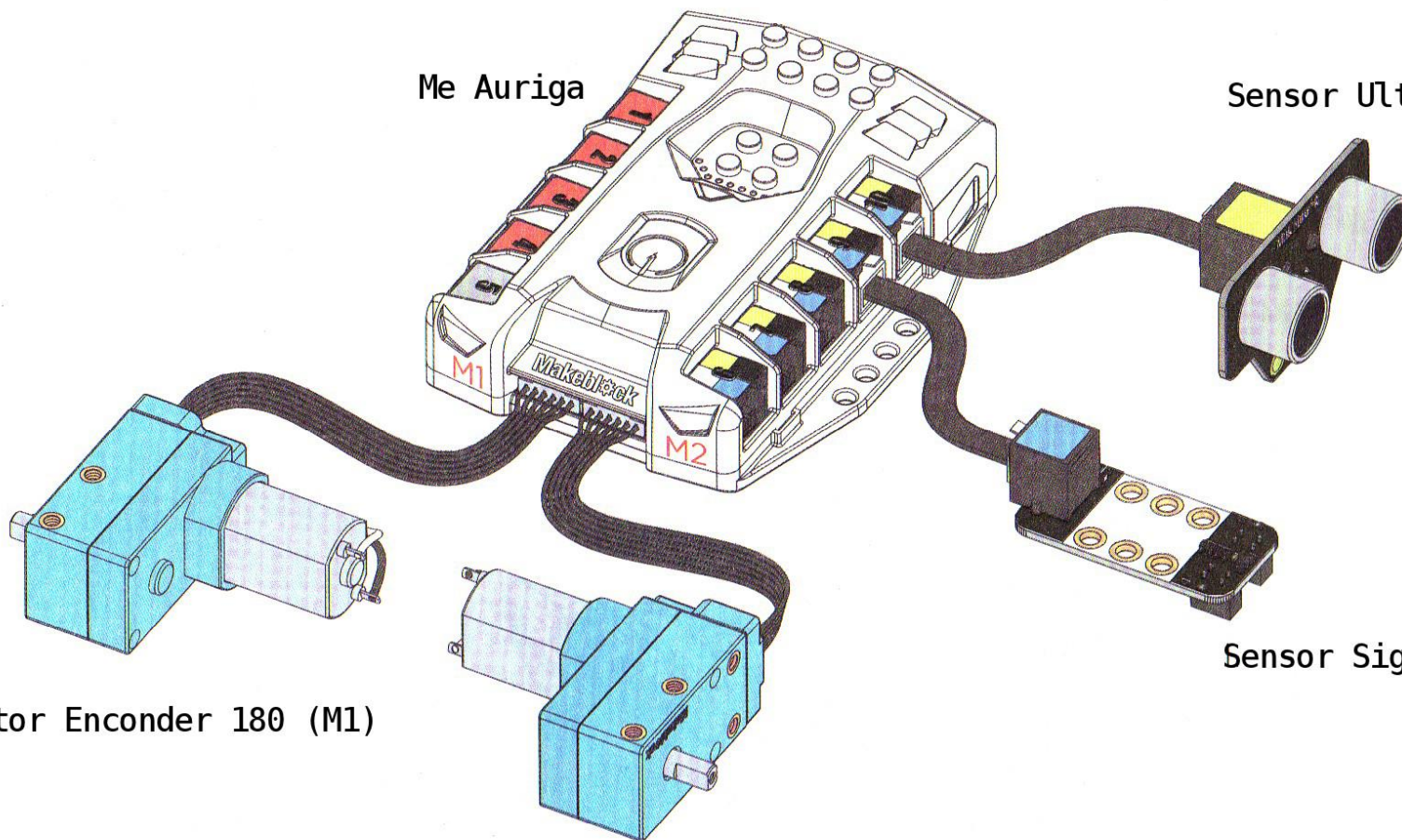




(2)

Me Auriga

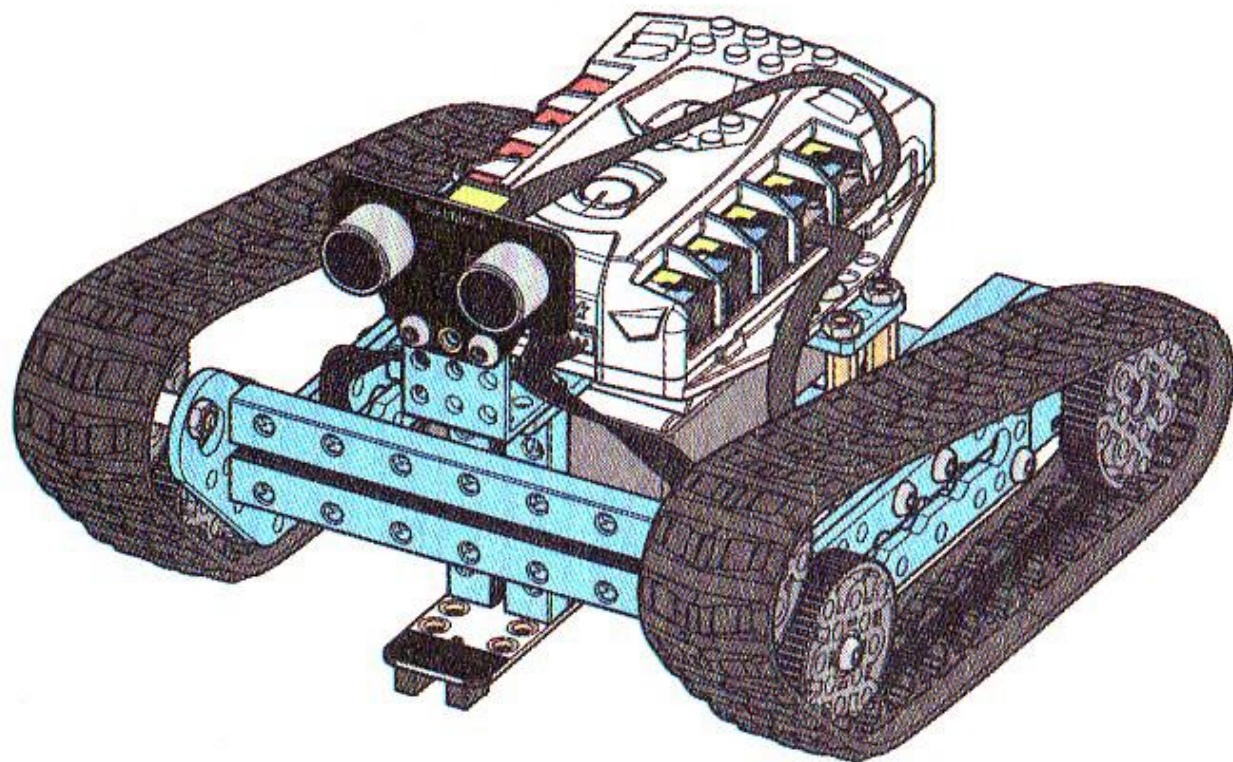
Sensor Ultrasonidos



Sensor Sigue Líneas

Motor Encoder 180 (M2)

Motor Encoder 180 (M1)





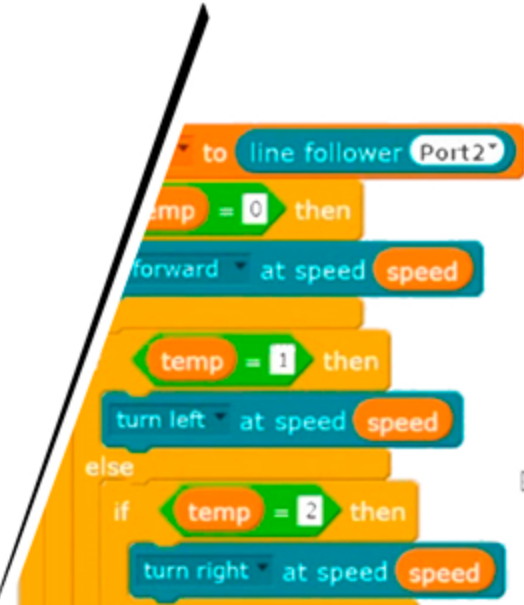
- Blog de referencia
- Componentes
- Montaxe

mBot Ranger

CFR Lugo 17/18

jose pino vázquez

- Instalación
- Os tres modos de firmware
- Programación secuencial
- Programación estructurada



mBot Ranger

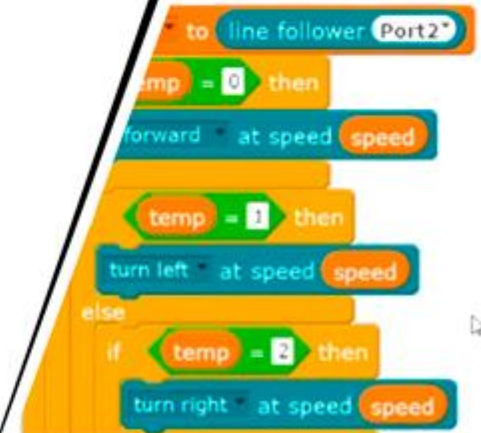
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- Descarga e instalación do programa

- Os tres modos de firmware

- ELECCIÓN DA PLACA
- MODO MÓBIL- ACTUALIZAR FW
- MODO ARDUINO
- MODO LABORATORIO (PREDETERMINADO)



mBot Ranger

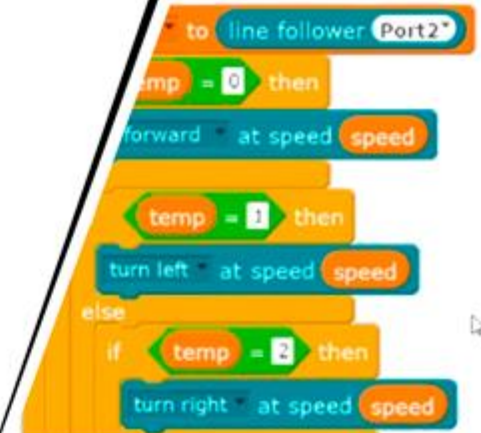
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Modo Móbil

COCHE TELEDIRIXIDO

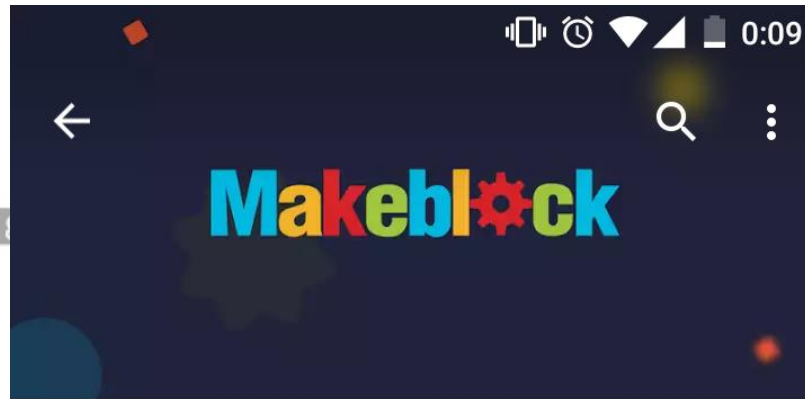
“PROGRAMACIÓN DENDE O MÓBIL”



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Modo Móvil



Makeblock

xeecos

3 PEGI 3

COCHE TE

DESINSTALAR

ABRIR

“REPROGR



Descargas



444



Educación



Similar

Una aplicación emocionante para Control
de Robot De Makeblock



NOVEDADES

- Brand New UI Design, User-Friendly Interface.
- Stronger Controllability, Simpler Way to





mBot Ranger


Juego


Crear

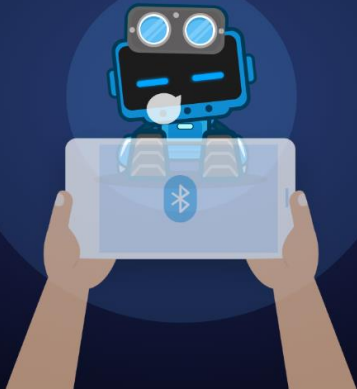

Construir


Ampliar

1

2

Cerca del robot, el bluetooth se conectará automáticamente



 Por favor, seleccione el dispositivo

ccc8f4100b37

3

4

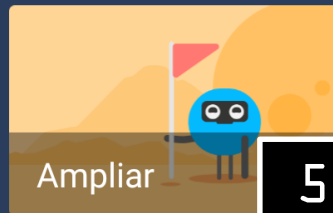
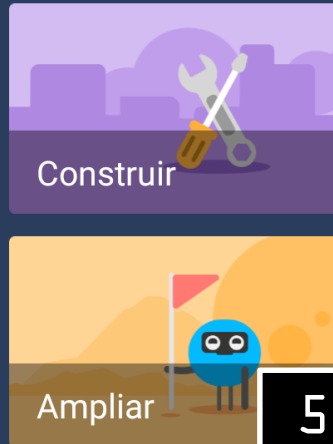
Conectado



Desconectar



mBot Ranger

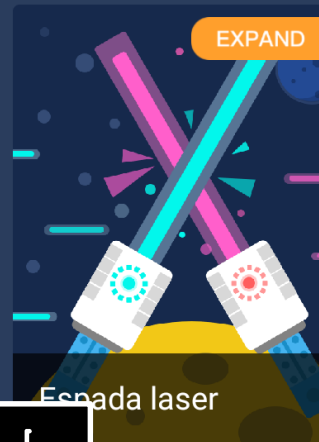


5

6



Juego



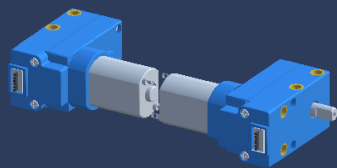
Ranger

7

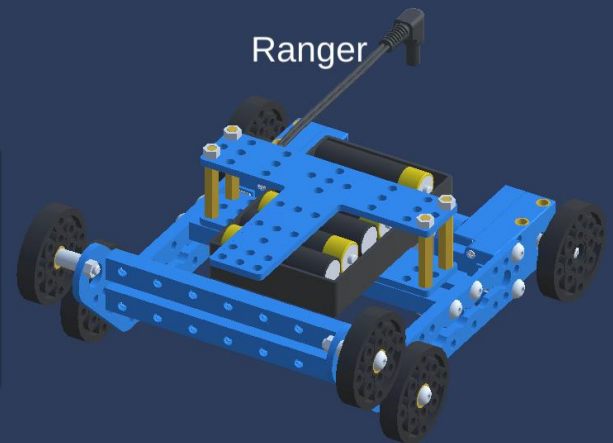
8



.80 Encoder Motor x 2



Nut M4 x 4



Ranger



1 / 67

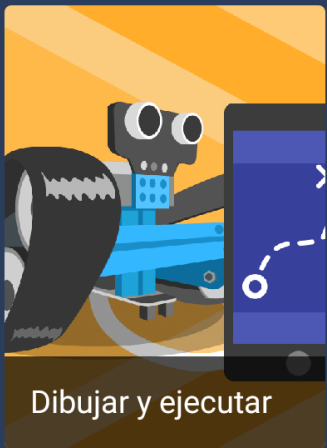


44 / 67

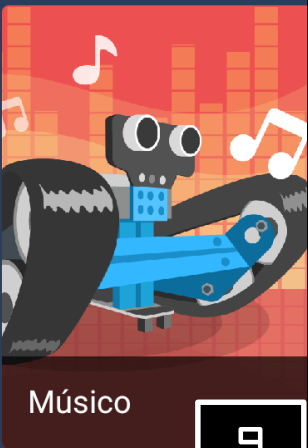
Juego



En coche



Dibujar y ejecutar

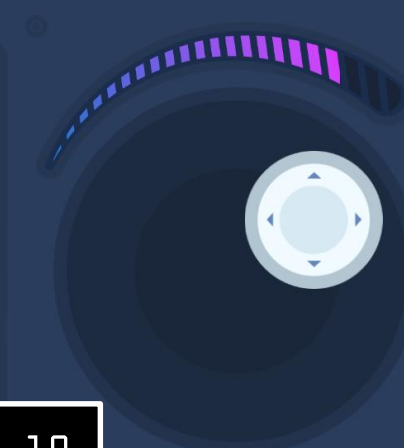


Música

9

10

En coche







Dibujar y ejecutar

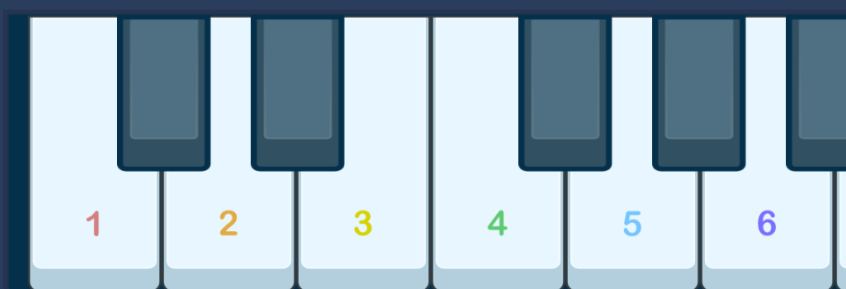


11

12

Música

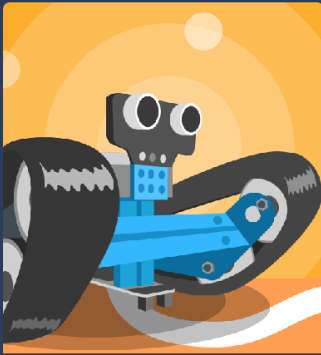




Juego



Control de voz



Seguir la línea

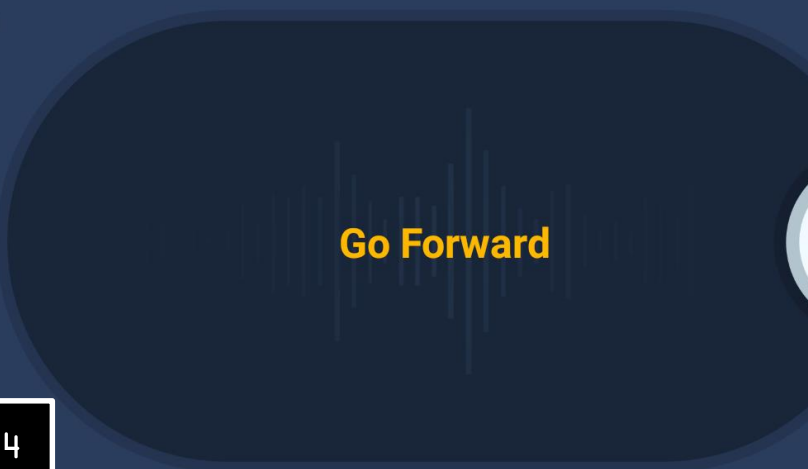


Evitar obstáculo

13

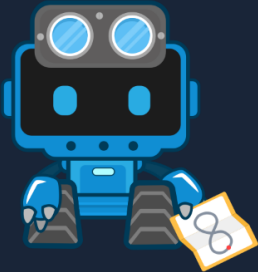
14

Control de voz



Go Forward

Seguir la línea



Auto sigue la línea negra



15

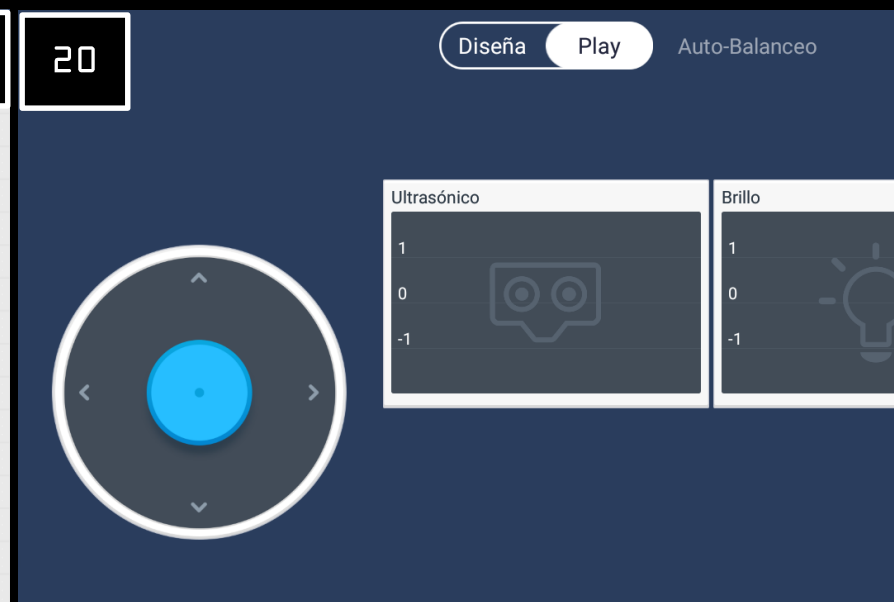
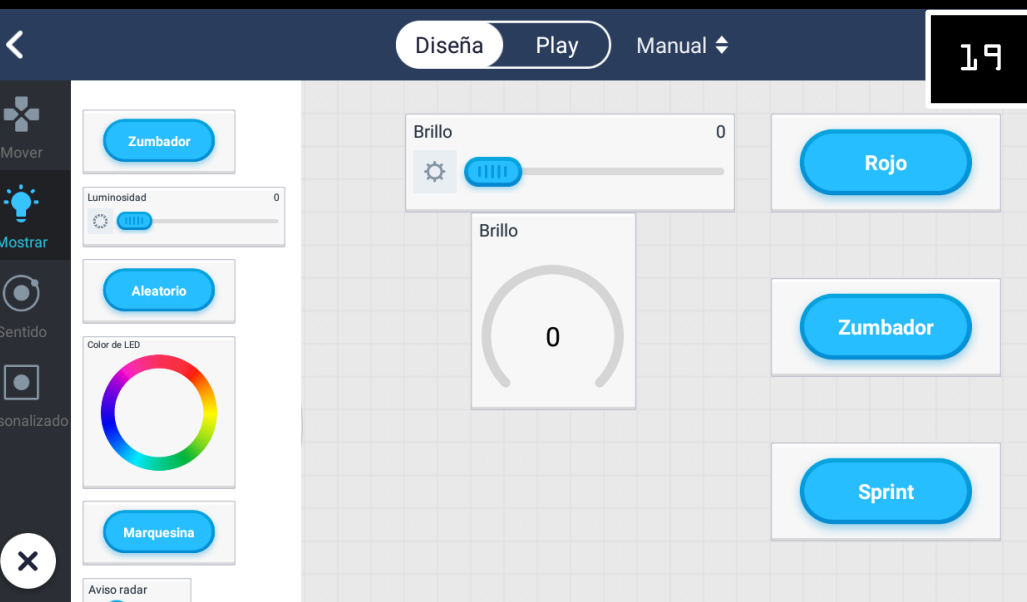
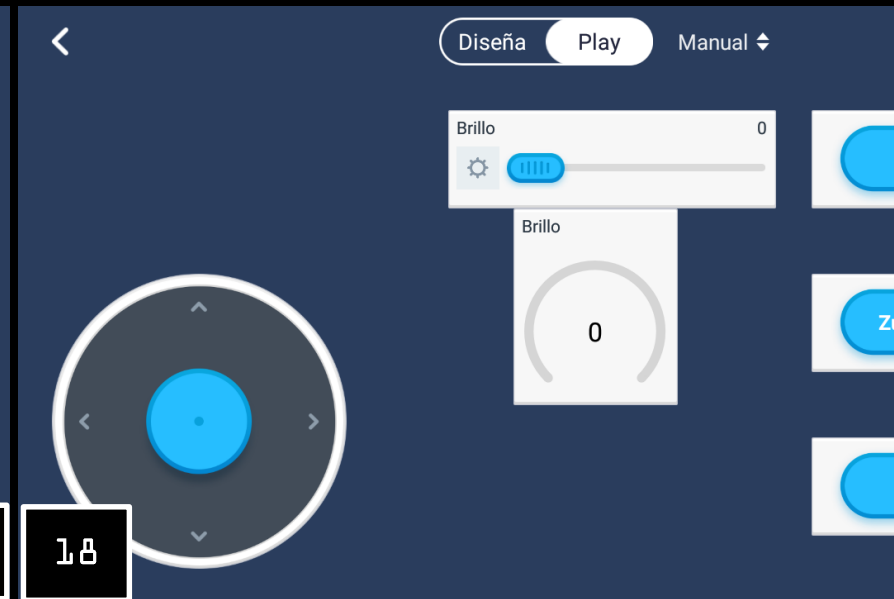
Evitar obstáculo

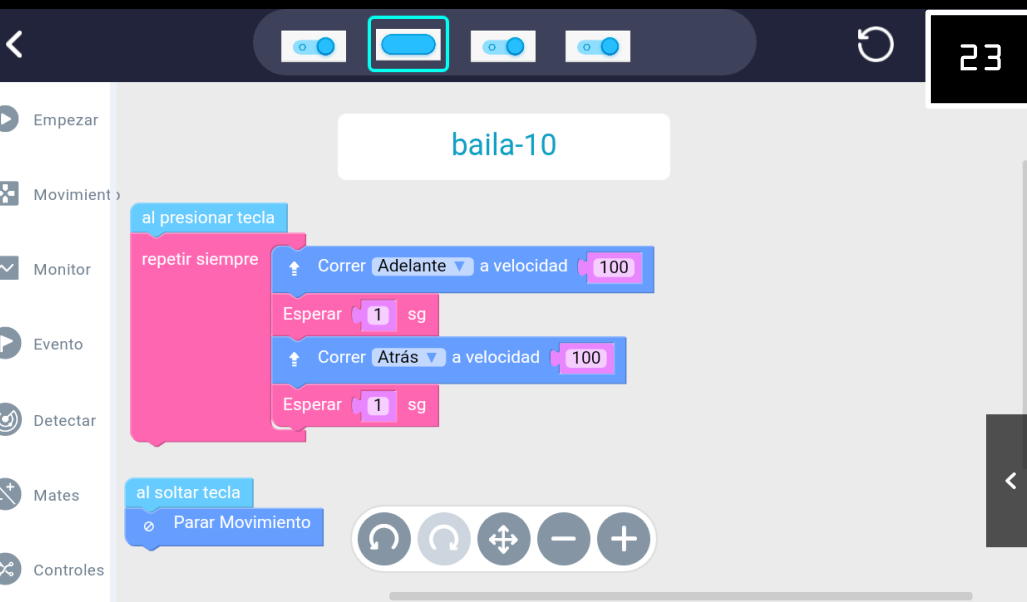
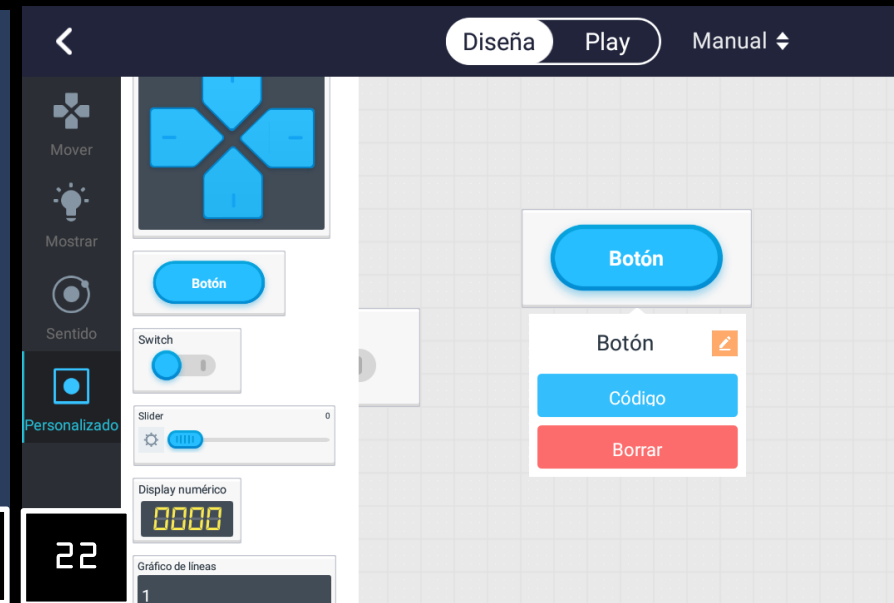
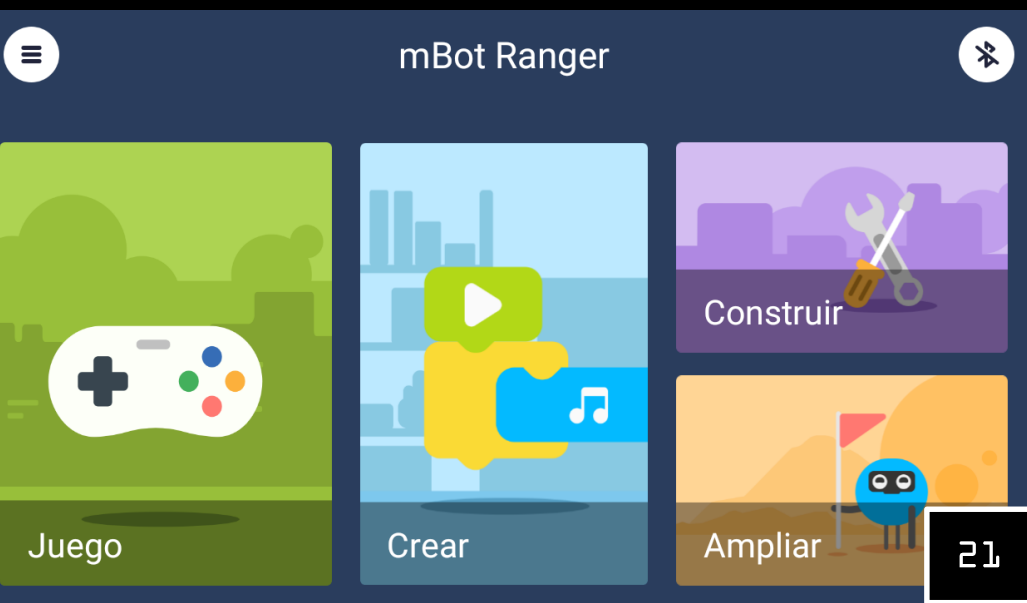


Auto evitar el obstáculo



16





mBot Ranger

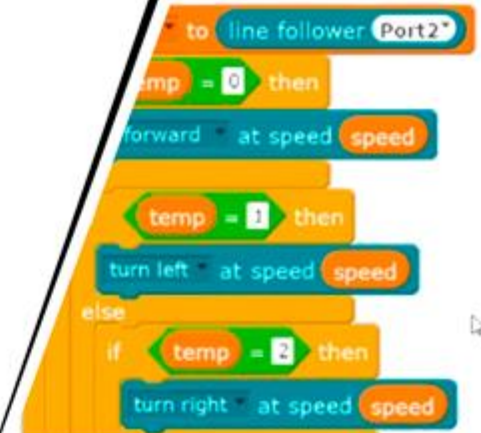
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Modo Arduino

INSTRUCCIONES DE LUZ

INSTRUCCIONES DE SON



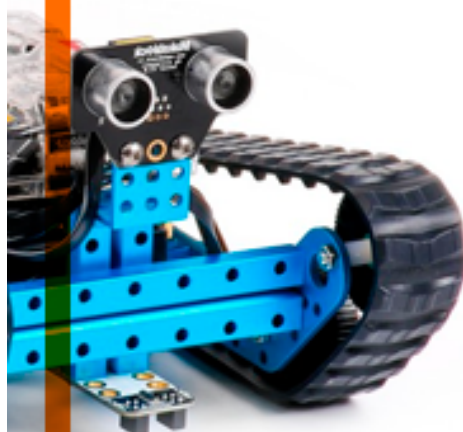
ROBÓTICA NA AULA

MBOT RANGER

José Pino Vázquez

RETO 1.1

valor 0,5 puntos



Utilizando o anel de leds (lembra que son 12), ilumina os leds pares de azul e a continuación os impares de amarelo.

Auriga Program

fijar led a bordo todos verde azul



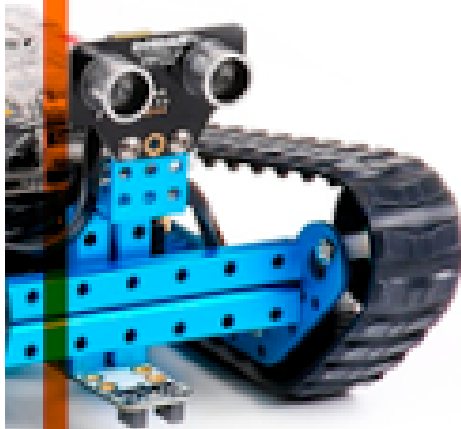
ROBÓTICA NA AULA

MBOT RANGER

José Pino Infante

RETO 1.2

valor 0,5 puntos



Modifiquemos o reto anterior de tal xeito que antes de prender cada led se emite un son. Os sons teñen que ir en progresión de graves a agudos, sendo o primeiro son que se reproduce o máis grave, e o último o máis-agudo.

play tone on note C4 ▼ beat Medio ▼

Do Re Mi Fa Sol La Si Do

C D E F G A B C

C5

D5

E5

F5

G5

A5

G5

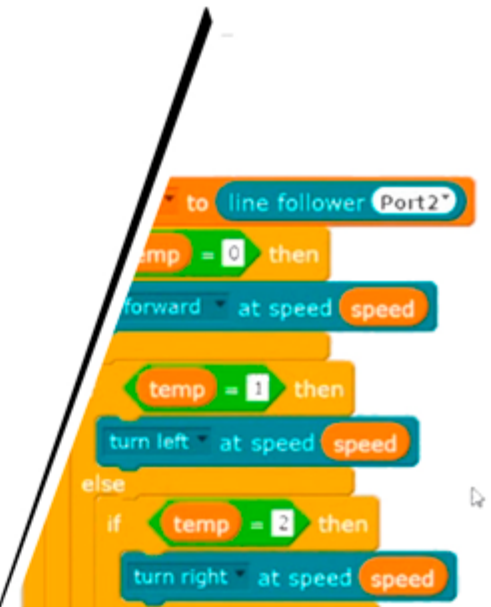
Taller de robótica e programación

Xornadas Ferraxeiras 17/18

jose pino vázquez

Modo Arduino

- INSTRUCCIÓN DE LUZ
- INSTRUCCIÓN DE SON
- INSTRUCCIÓN DE MOVEMENTO
- INSTRUCCIÓN DE AGARDA



Taller de robótica

Xornad

jos

ROBÓTICA NA AULA

MSOT RANGER

2008 First Innoquest

RETO 1.3

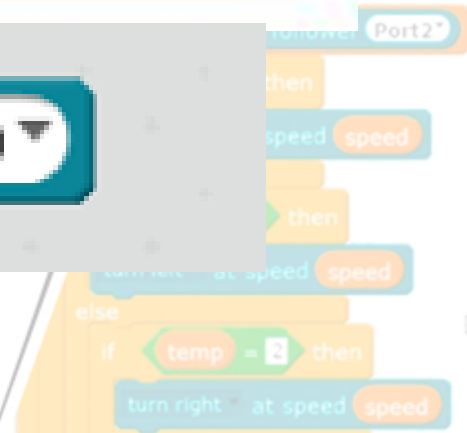
valor 2 puntos



Realiza o programa no que o robot emita un son C4 "entero" e posteriormente avance a unha velocidade de 100 durante 3 segundos.

correr adelante a velocidad 0

esperar 1 segundos



Taller de robótica

Xornad

jos

ROBÓTICA NA AULA

MSOT RANGER

2008 First Innoquest

RETO 2.1

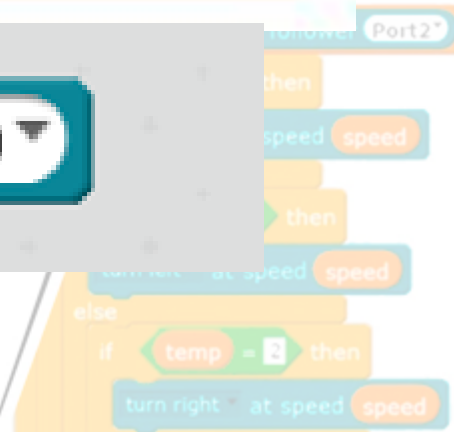
valor 3 puntos



Realiza o programa no que o robot se desprace en liña recta aproximadamente 1,50 metros e que de media volta e volva a percorrer os 1,50 metros para volver ó punto ó que saiu.

correr adelante a velocidade 0

esperar 1 segundos





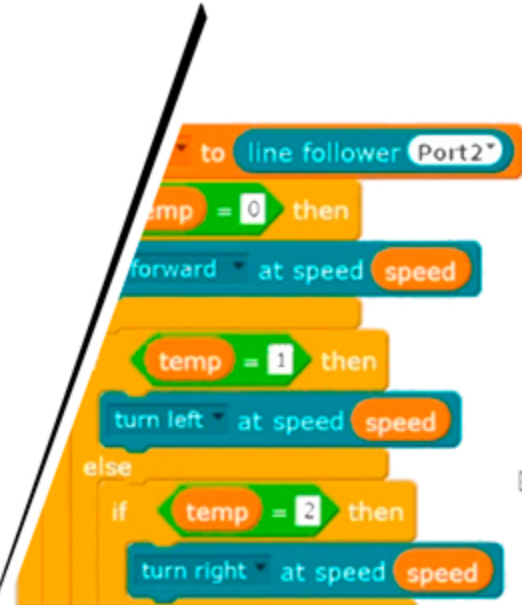
- Blog de referencia
- Componentes
- Montaxe

mBot Ranger

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jose pino vázquez

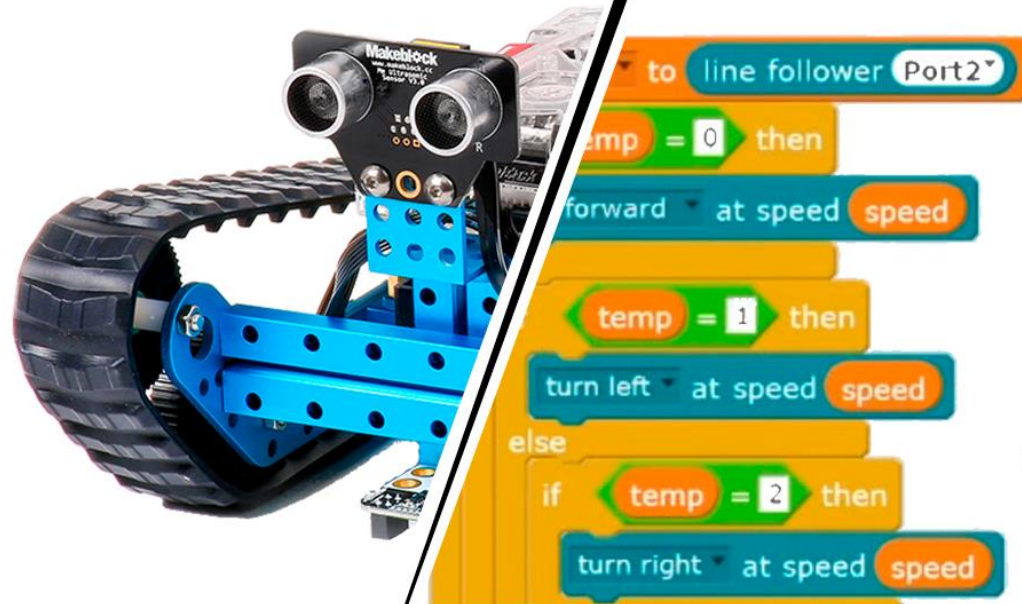
- Instalación
- Os tres modos de firmware
- Programación secuencial
- Programación estructurada



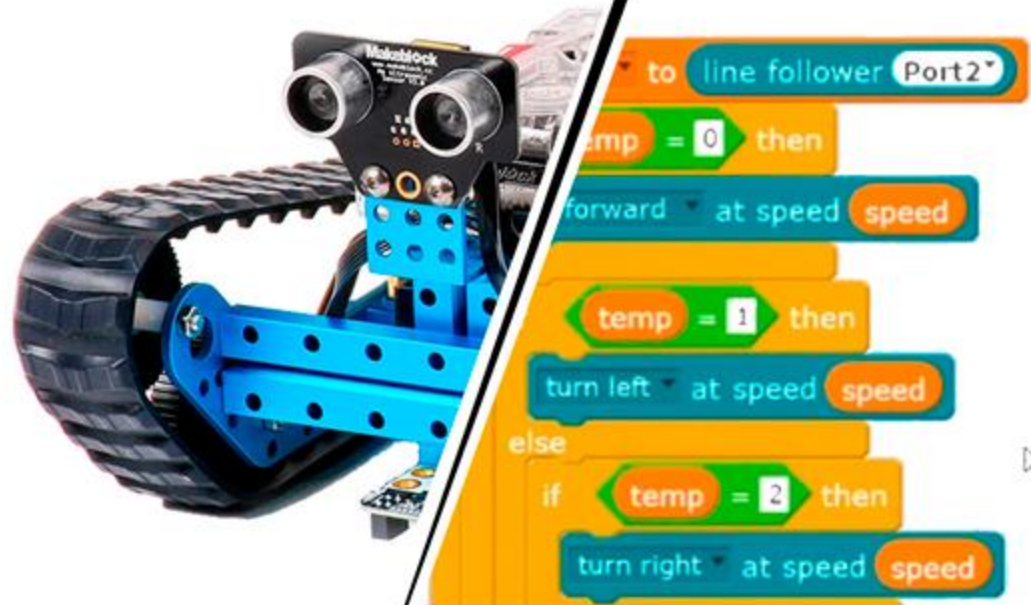
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josepino@edu.xunta.es



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