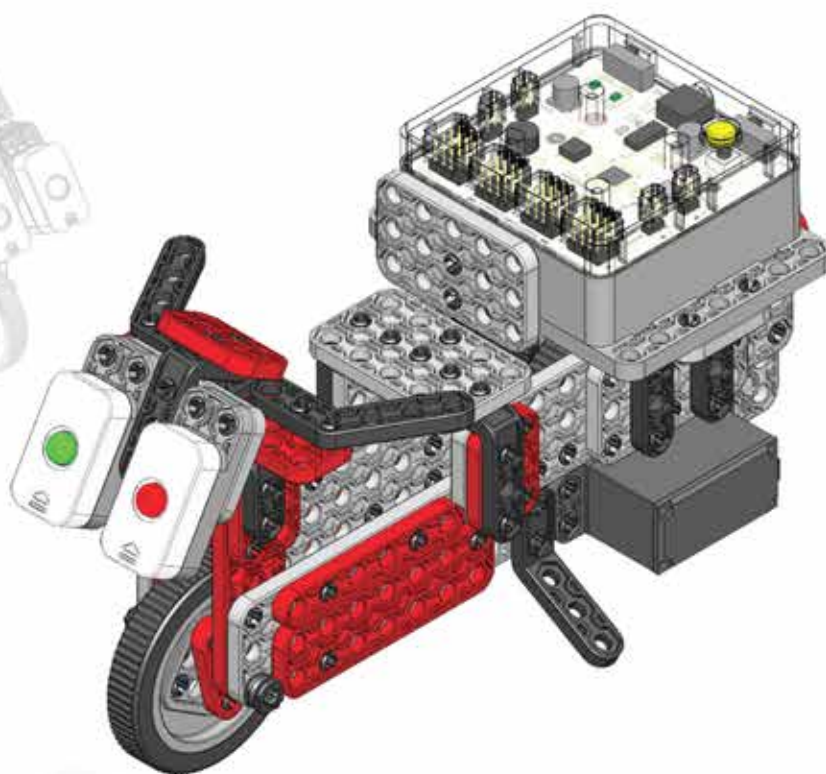
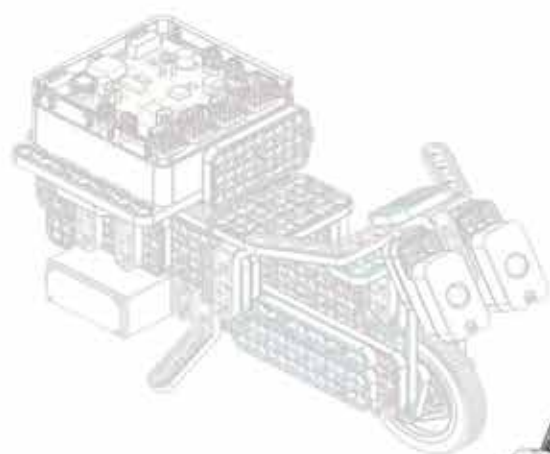




T A M I

CREATIVE



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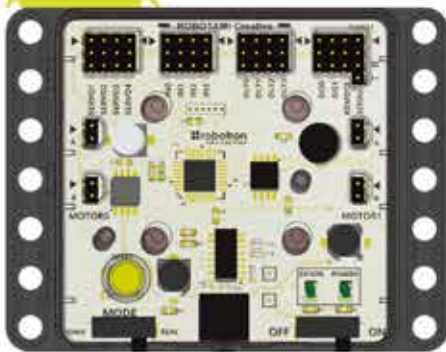
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Robot's Part List

**Before building robots,
Let's check out the parts and
the functions of Tami-Creative.**

Robo tami Part List



Controller **X1**

Controls inputs, outputs
and motions of a robot.



Remote control **X1**

Controls a robot without
a cable.



3Pin cable **X3**



3Pin headerpin **X3**



X1

Remote control receiving module

Receives an RC signal and sends
it to the controller.



X2

Infrared sensor module

Receives an infrared signal.



Or this shape



X2

Switch module

Receives a physical touch signal.



X1

LED module(Green)



X1

LED module(Red)

Emits light after a signal from the controller.



DC Motor X2

Generates power.



Wheel guide X2

Connects a motor to a wheel.



Wheel X4

Spins to move a robot.



Tire X2

Covers a wheel.



L-bracket X21

Connects frames and panels



V-bracket X8

Connects frames and panels



T-panel X2

Connects frames and panels.



V-panel X4

Connects frames and panels.



50mm rod X3

Connects a frame or a panel to a wheel or a gear.



Rod rivet X10



Wheel screw X2

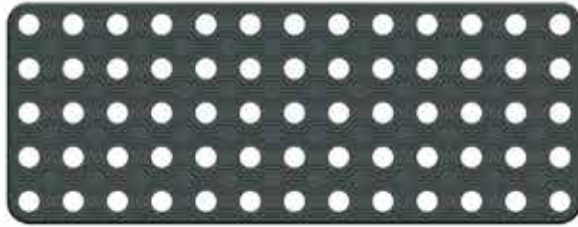
holds a wheel guide and a DC motor shaft.



Bushing X15

holds a rod and a frame.

Builds up a robot's structure.



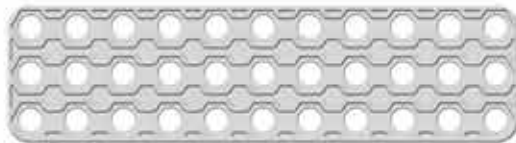
5X13 frame

X4



X3

Rubber band



3X11 panel

X4



X3

Ball rivet



3X9 panel

X4



X1

Download cable



3X5 panel

X9



X1

Rivet Container



2X7 panel

X10



X1

Tronz Card V2 CD



2X3 panel

X5



X1

Disassembly Tool



9 panel

X6



6 panel

X6



4 panel

X5



3 panel

X4



X190+α

Rivet

Connects frames or panels to other panels or brackets.

Racing Robot

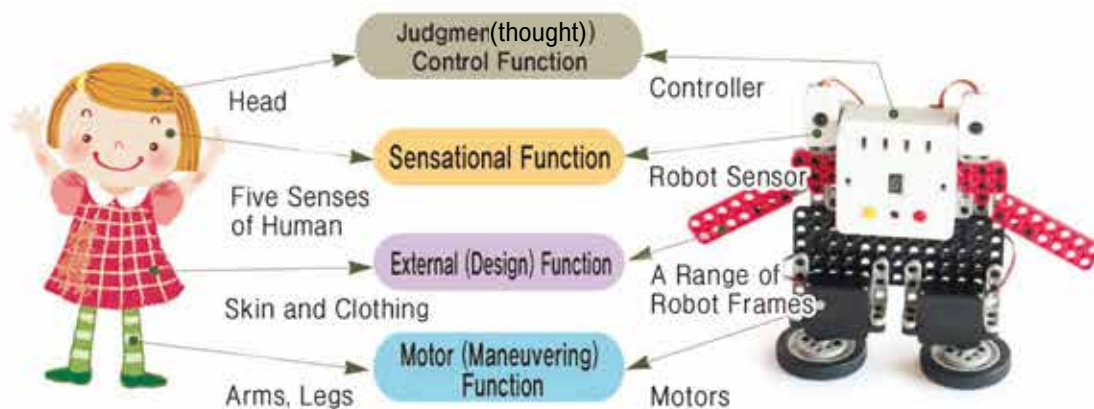
Learning subject

1. Let's learn about the robot.
2. Let's compare the different movements between humans and robots.
3. Let's learn about the three laws of robotics.

What is a robot?

Robots are machines built to identify surroundings, process a range of operations on their own and do the work to replace humans.

Robots are much like humans. The image below compares between robots and humans.

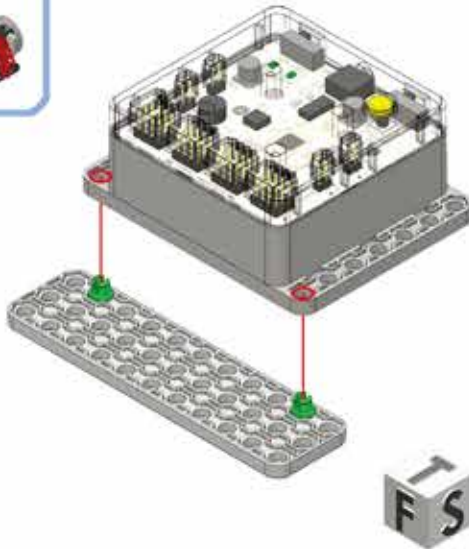


There are three laws of robotics.

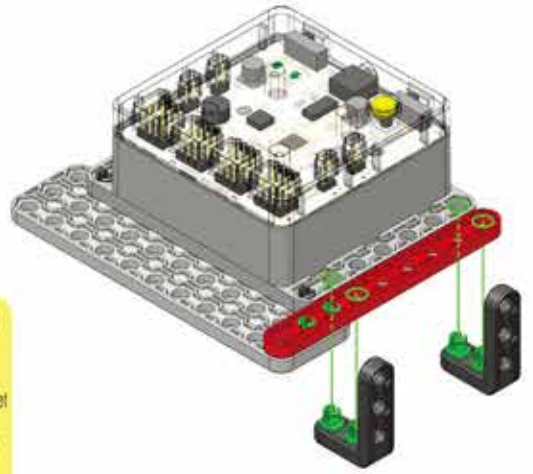
- 1 First law** No.1, a robot may not injure a human being or, through inaction, allow a human being to come to harm.
- 2 Second law** No.2, a robot must obey orders given it by human beings except where such orders would conflict with the First Law.
- 3 Thlrd law** No.3, a robot must protect its own existence as long as such protection does not conflict with the First or Second Law.



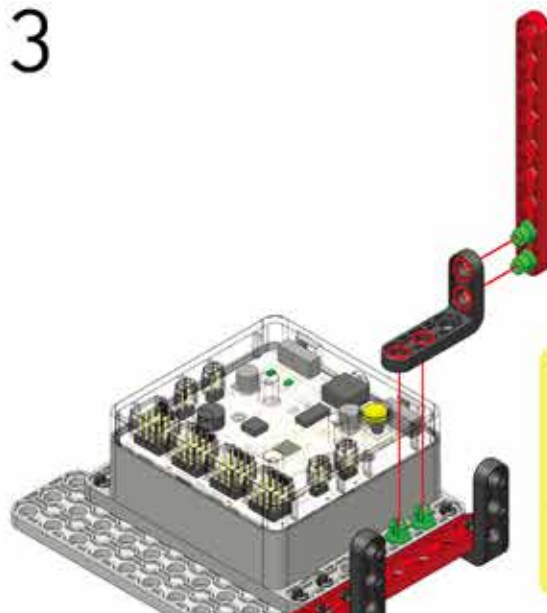
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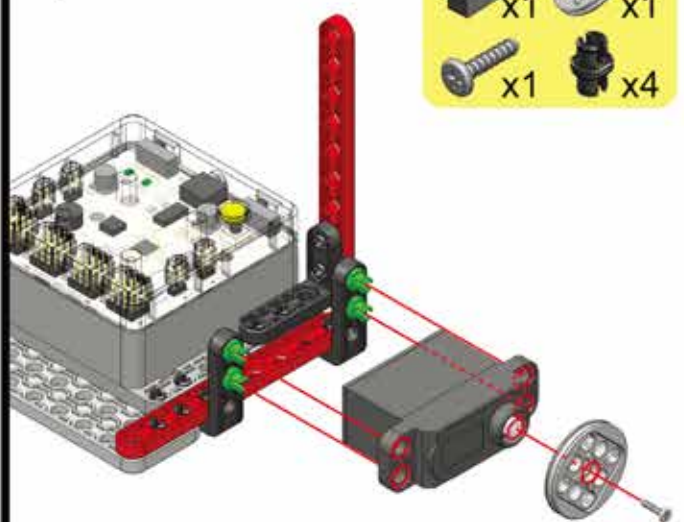
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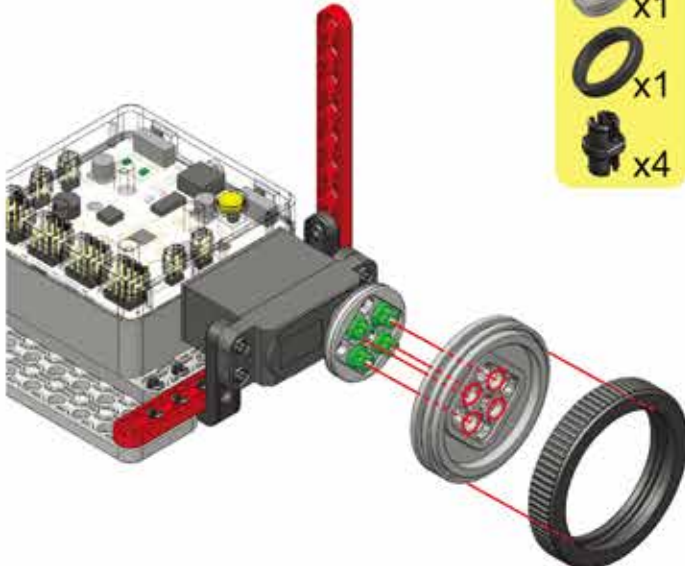
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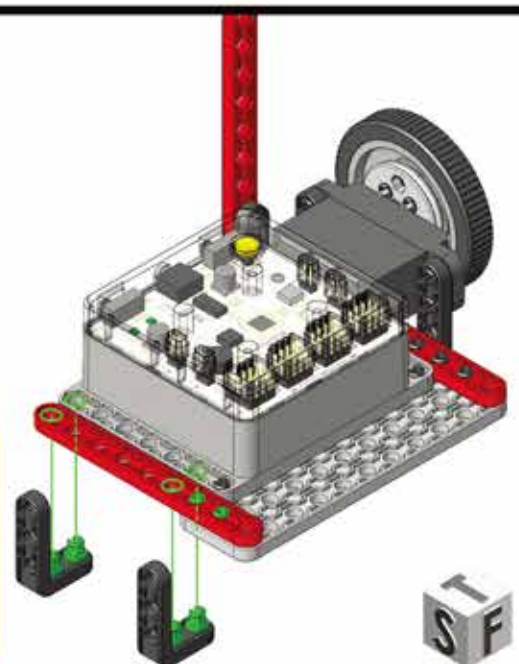
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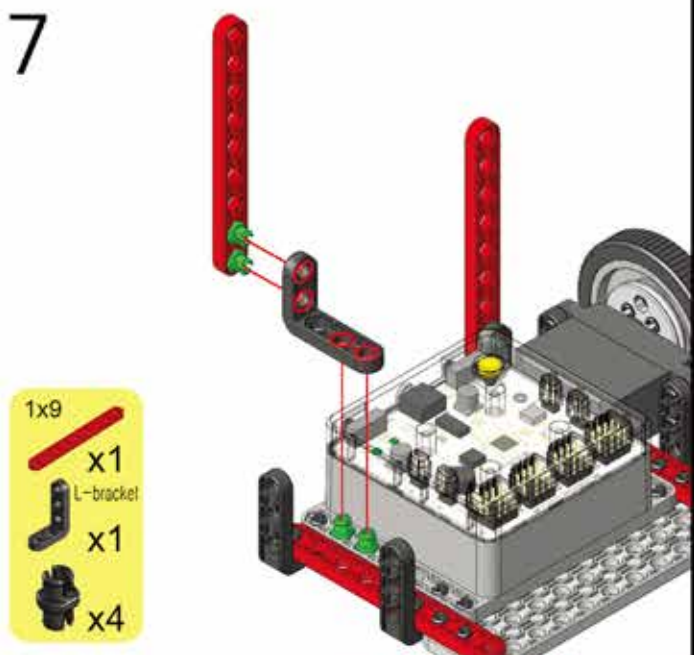
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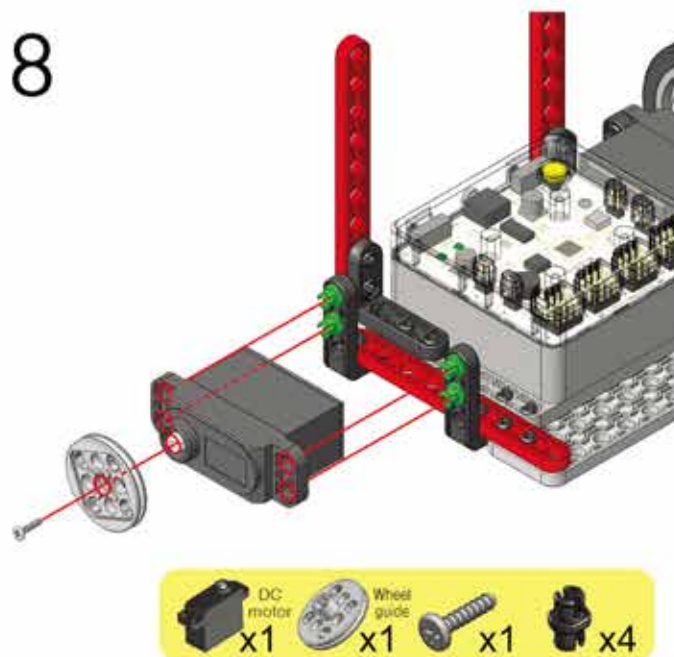
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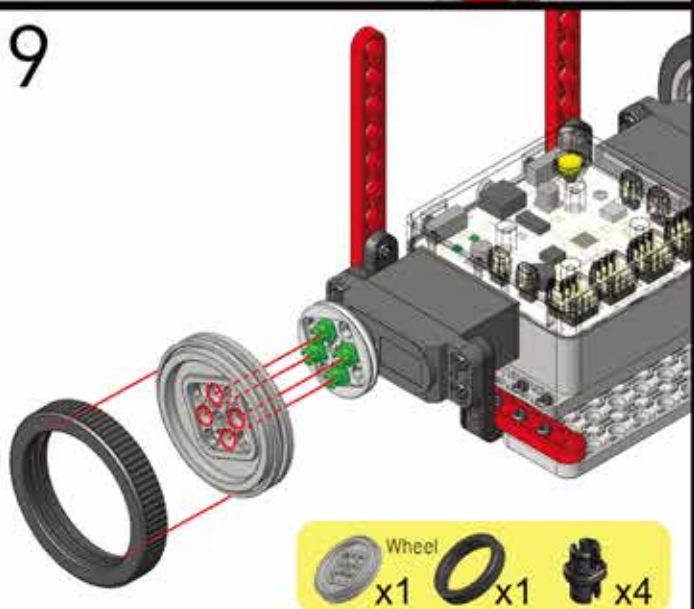
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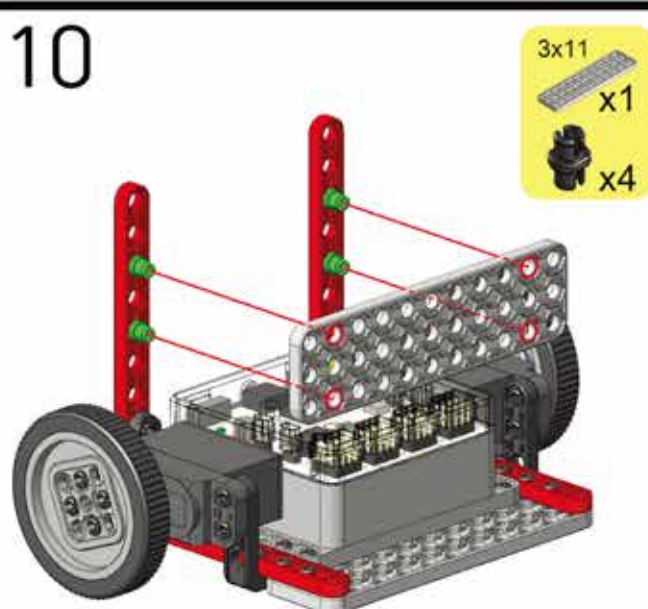
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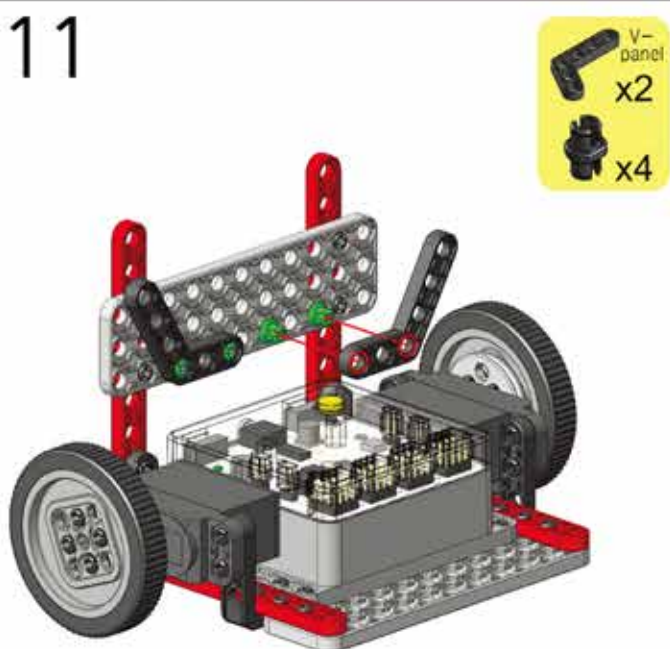
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10



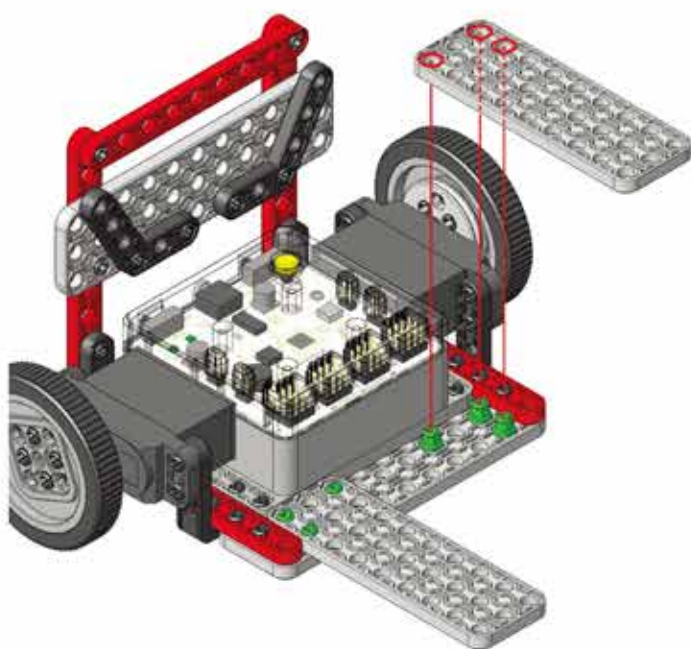
11



12



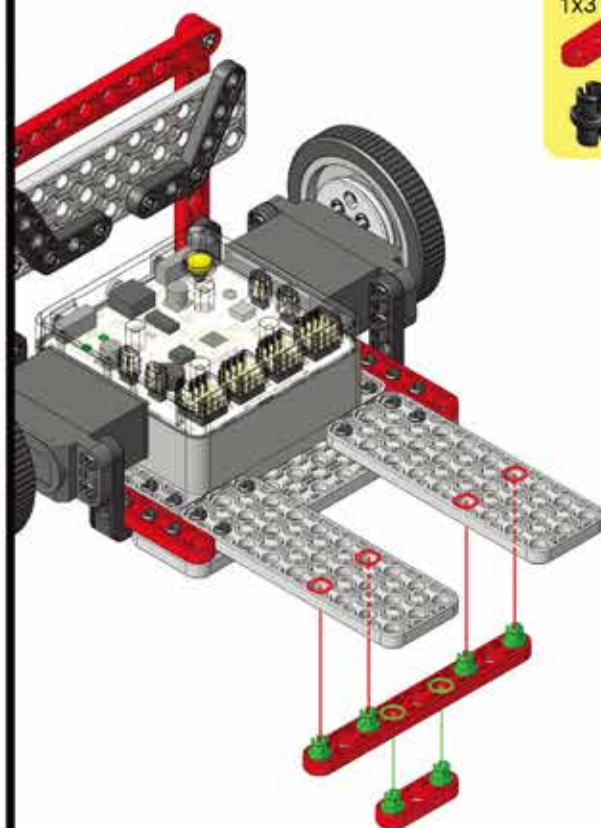
13



3x9
x2


 x6

14

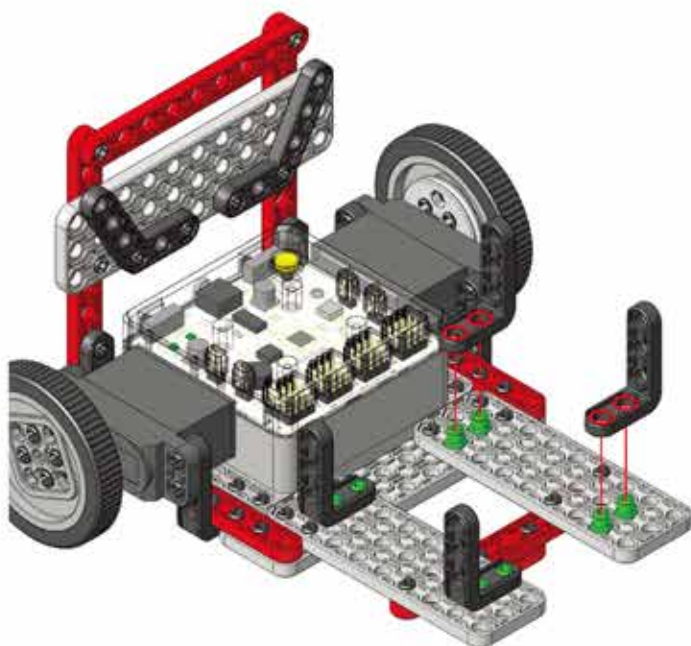


1x9
x1

1x3
x1

 x6

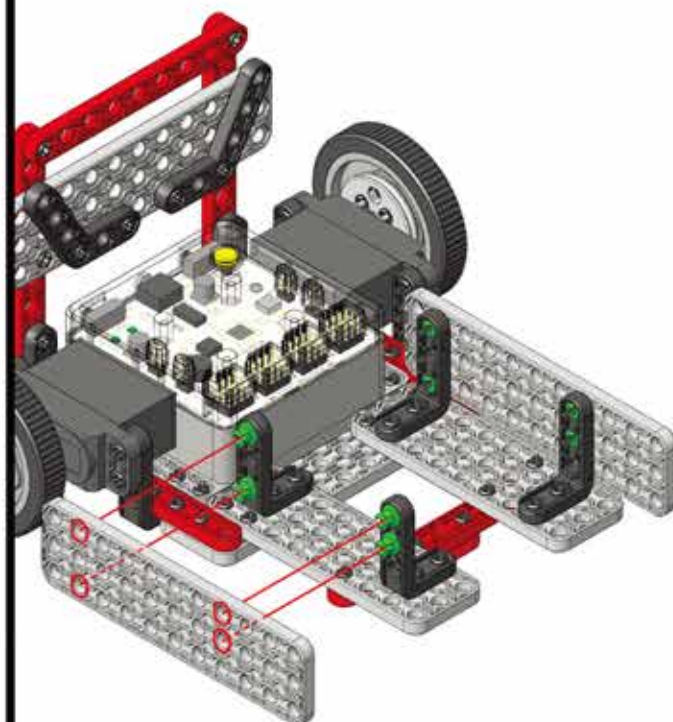
15



L-bracket
x4

 x8

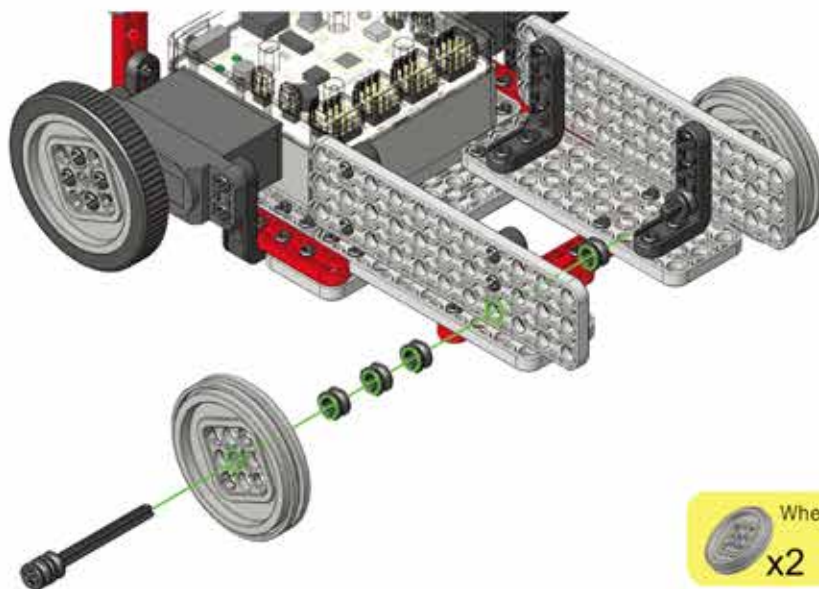
16



3x11
x2

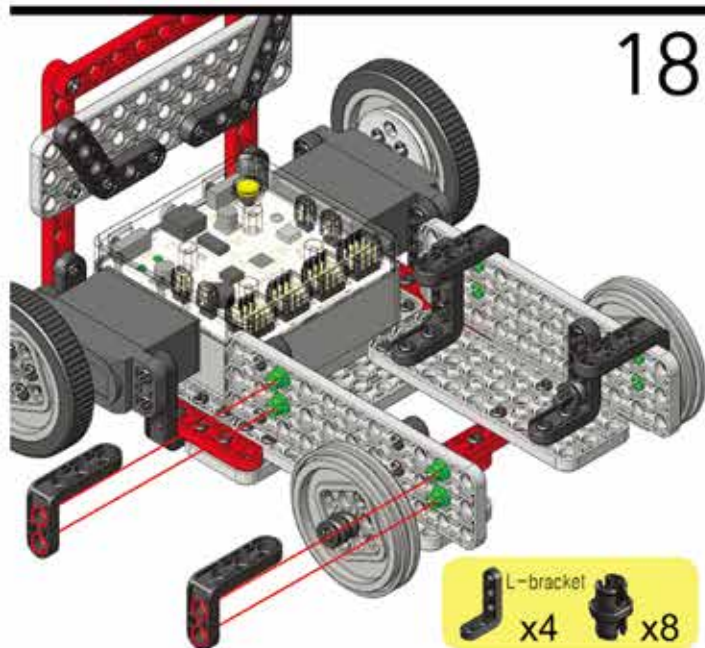
 x8

17



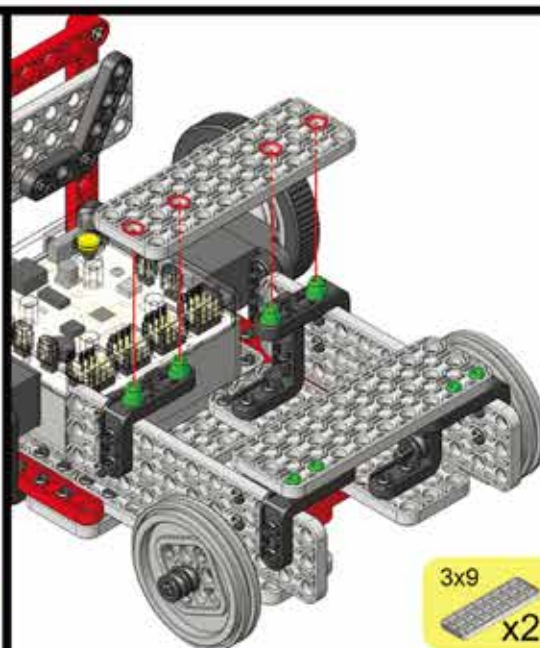
Wheel 50mm
x2 x2 x12

18



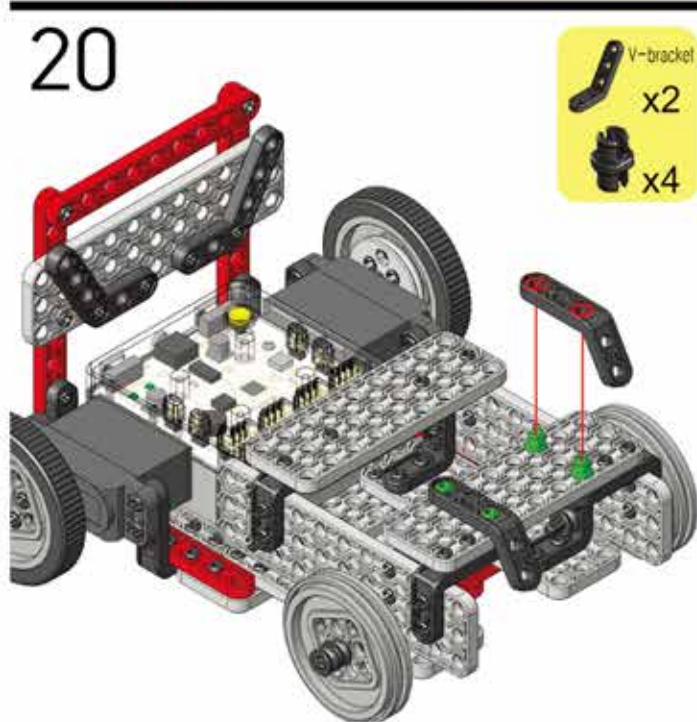
L-bracket
x4 x8

19



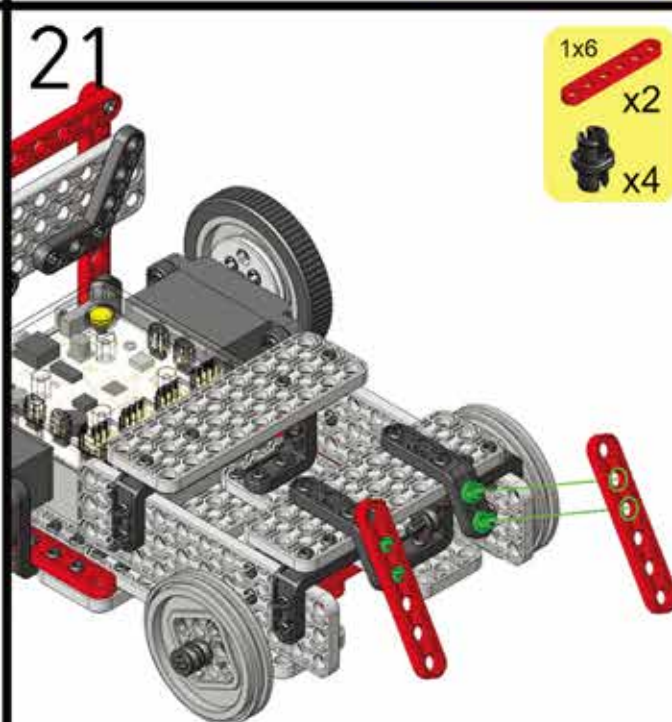
3x9
x2 x8

20

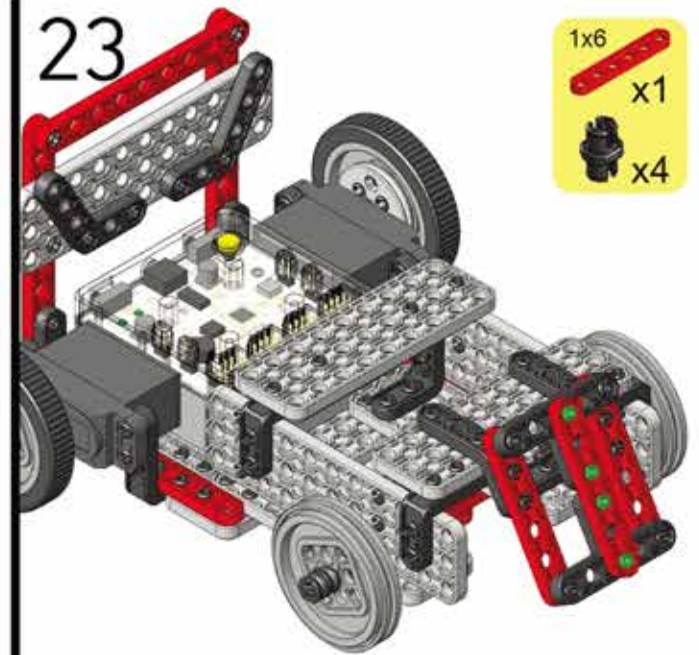
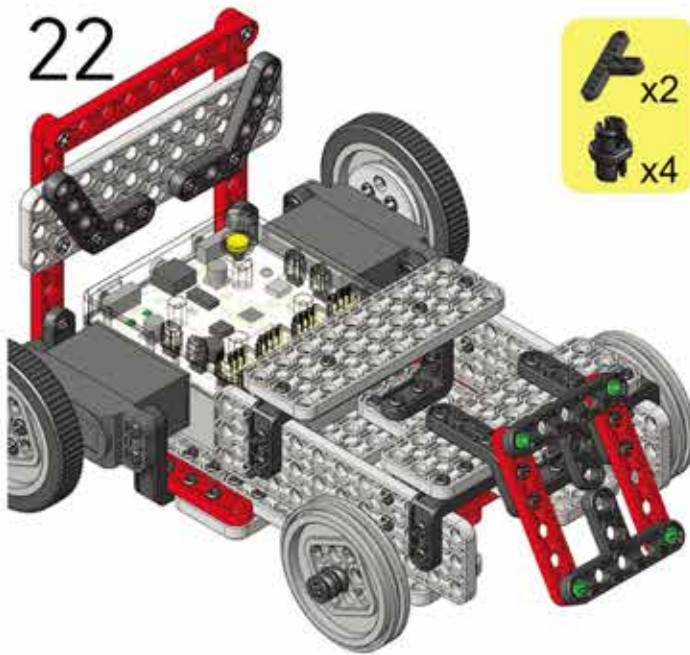


V-bracket
x2 x4

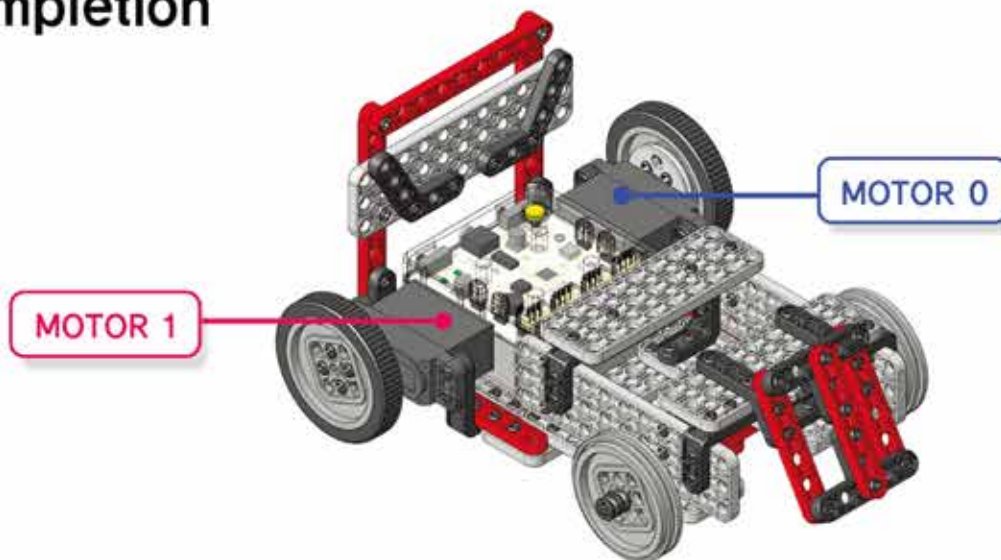
21



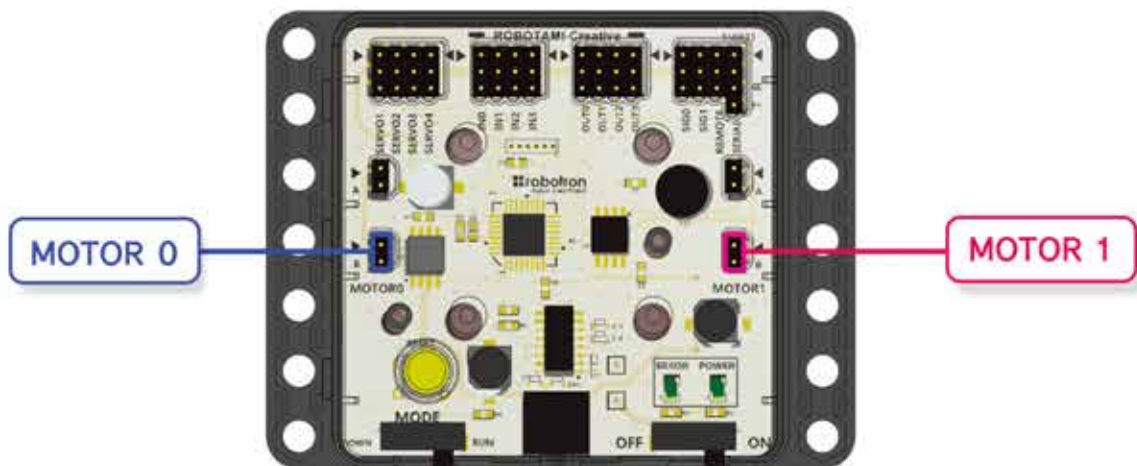
1x6
x2 x4



Completion



Connection

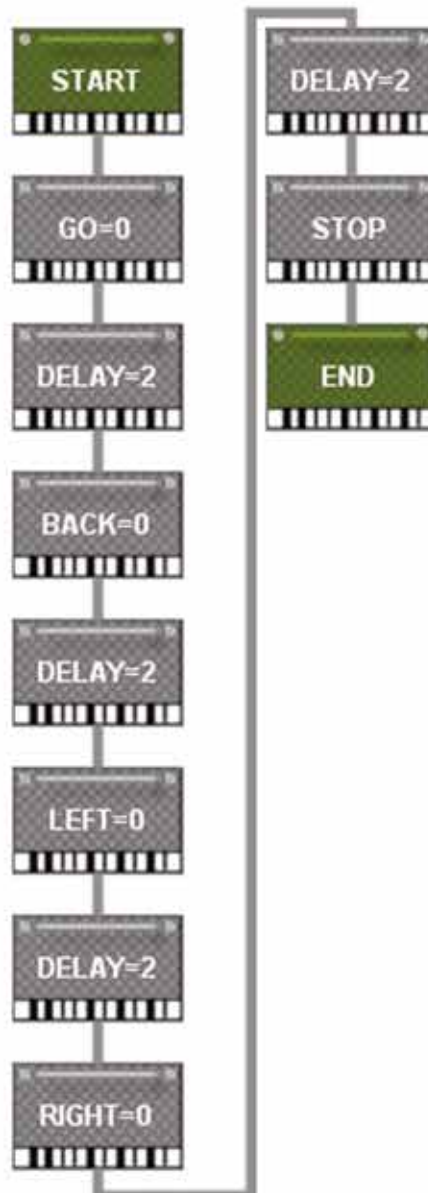


Let's Program

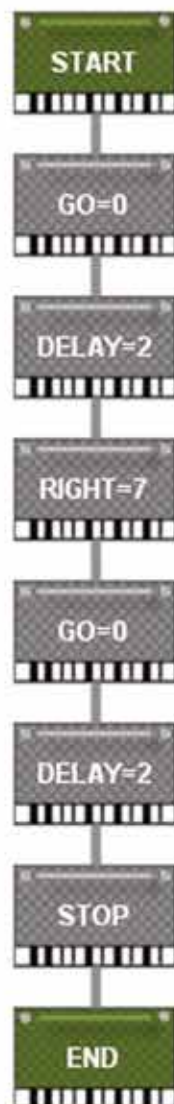
1. Make Racing Robot go forward for 3 seconds.



2. Make the robot go forward, backward, turn left and turn right.



3. Make Racing Robot move in a " \neg " shape.



4. Make Racing Robot move in a " \square " shape.

