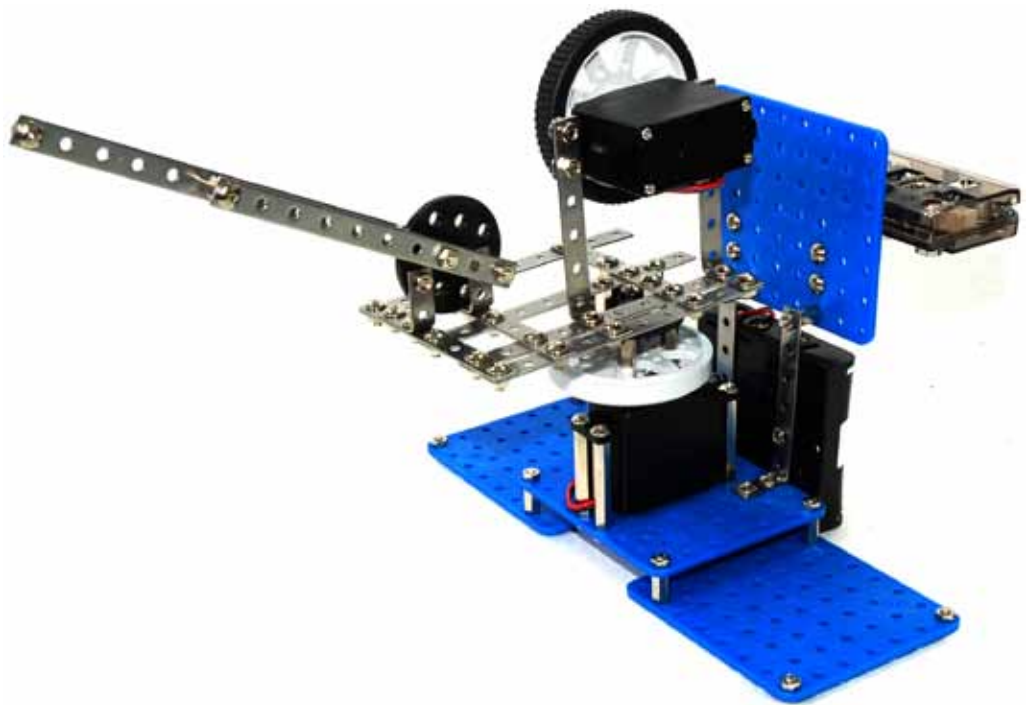


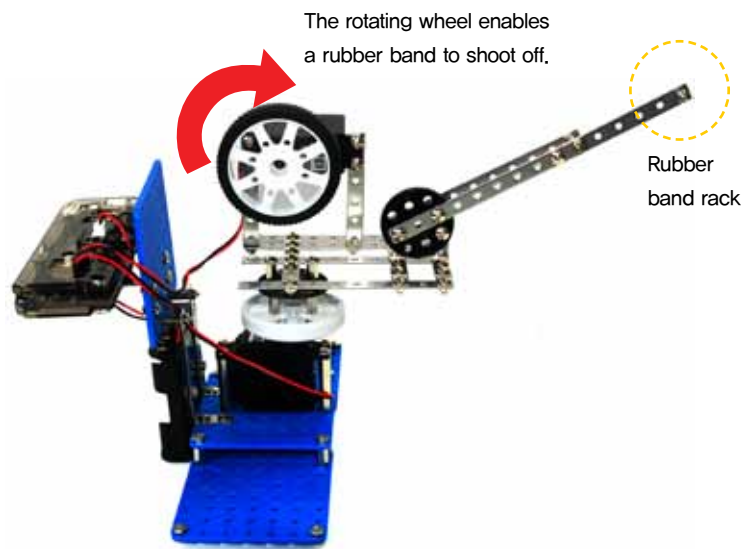
8. Turret Robot



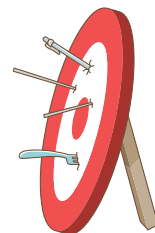
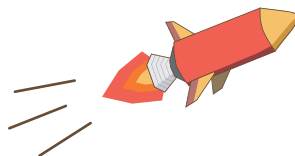
Introduction and how it works



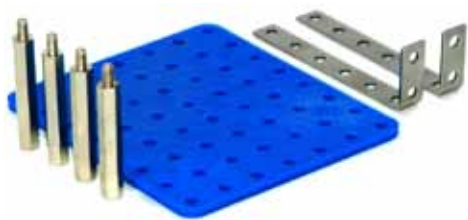
Put up a rubber band between the wheel and the tip of the barrel on turret to cause tensions. And use 1 DC motor to rotate the gun turret, ready to shoot at a target.



When the rubber band hung on barrel rotates the wheel to barrel direction, it gets ready to shoot off. On this occasion, the momentum of the rubber band also increases to the proportion of wheel's rotating speed. If the rotating speed of wheel is adjusted, shooting range of the rubber band is able to be adjusted.



1



X 4



X 8



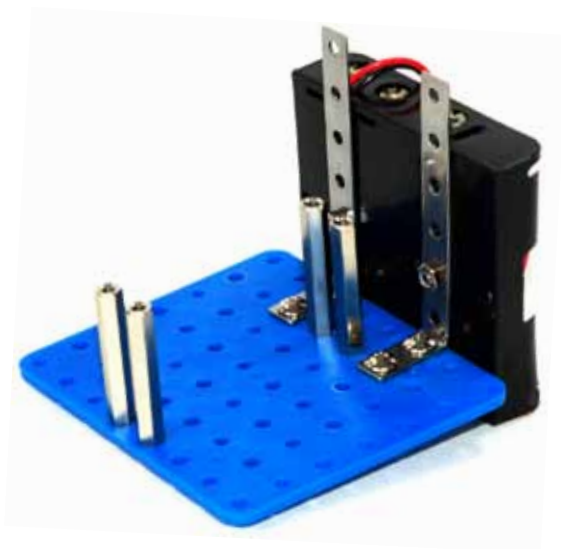
2



X 2



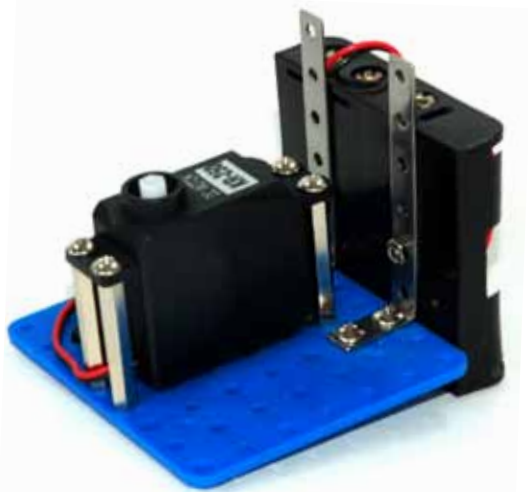
X 2



3



X 4



4



X 4



5



X 1



6



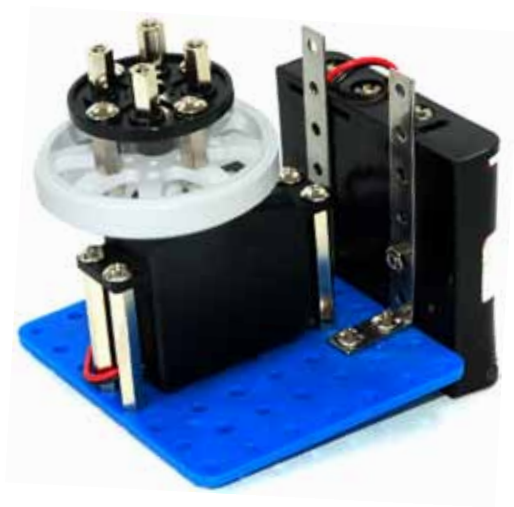
X 4



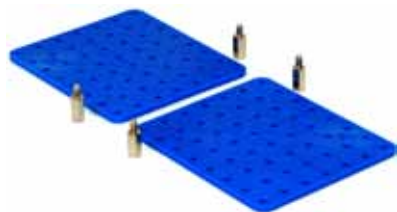
7



X 4



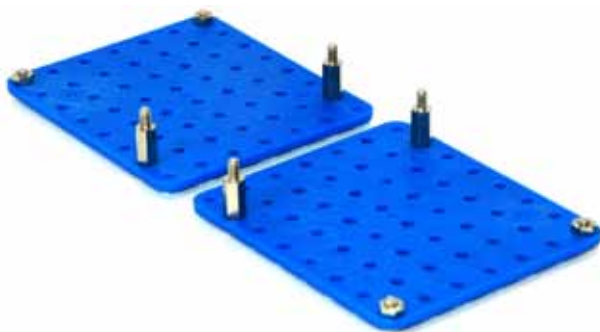
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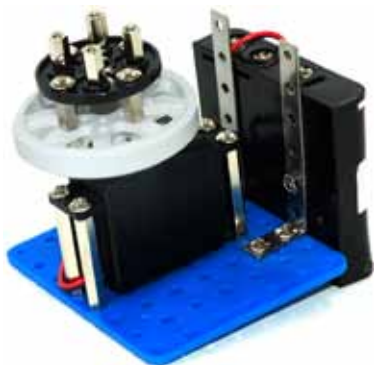
X 8



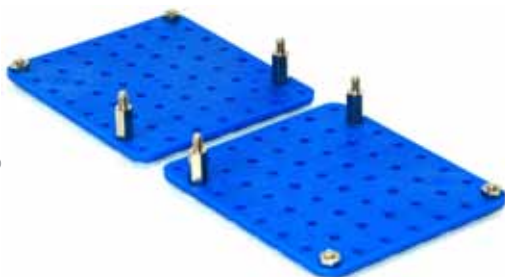
X 4



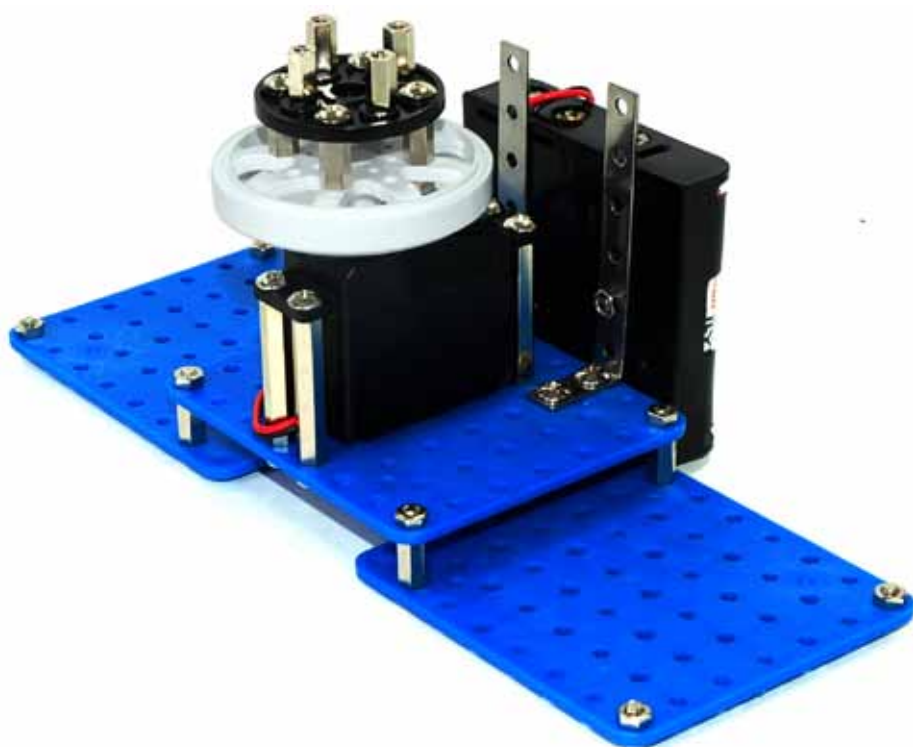
9



+



X 4

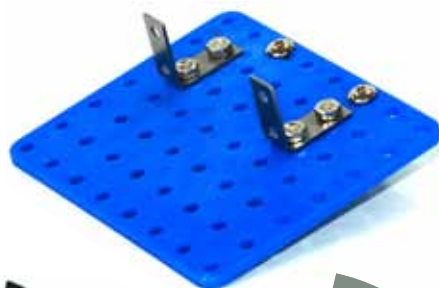
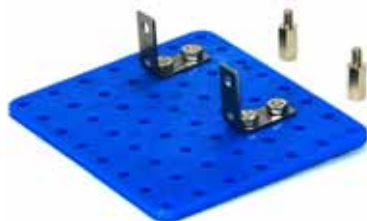


10



 X 4  X 4

11



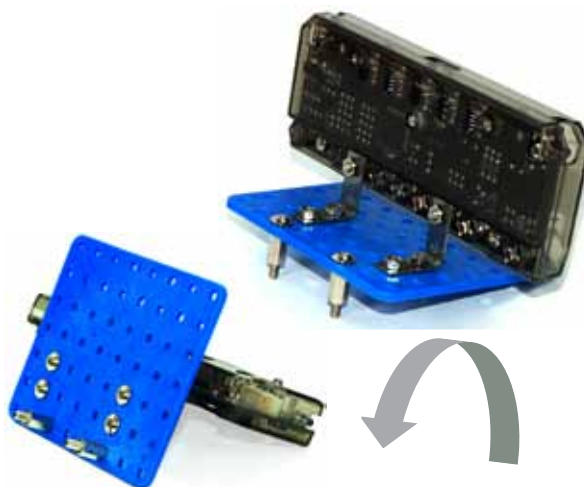
 X 2



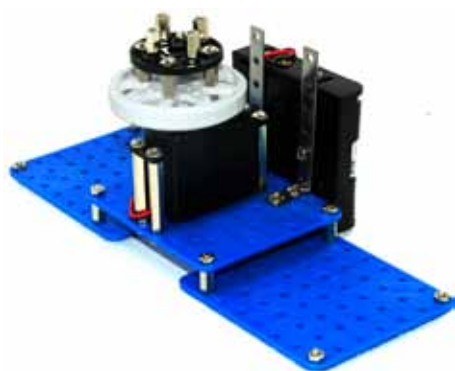
12



 X 2  X 2



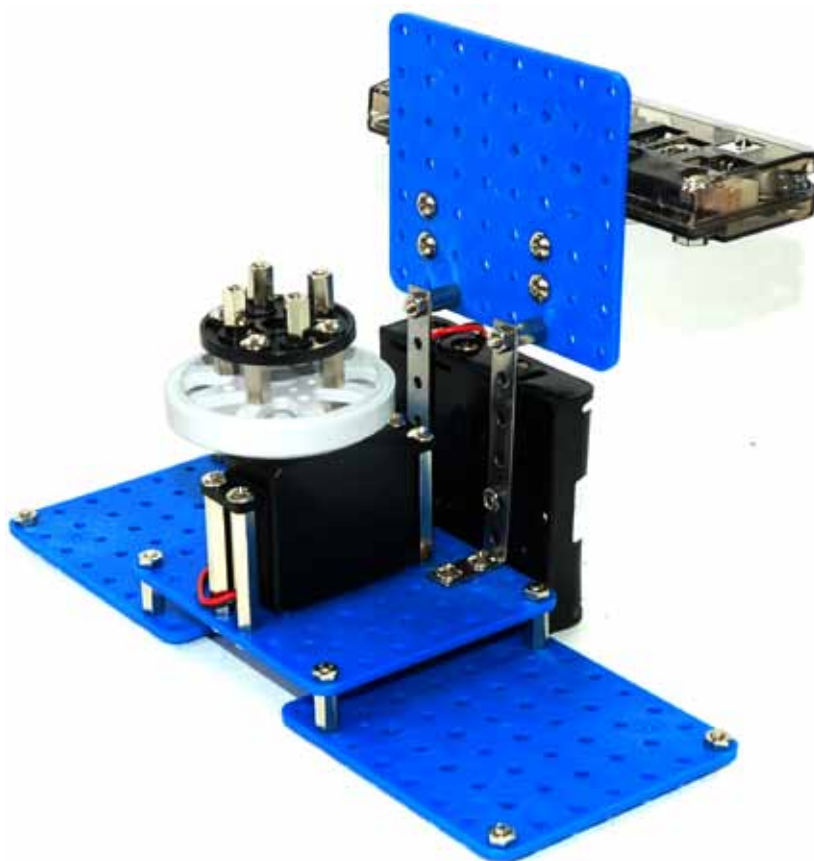
13



+



X 2



14



X 12



X 12

15

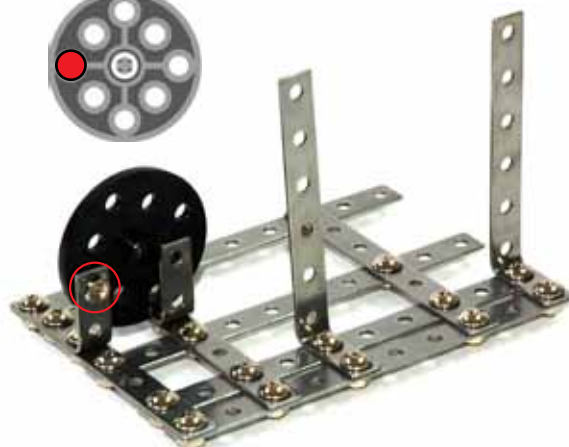


X 8



X 8

16

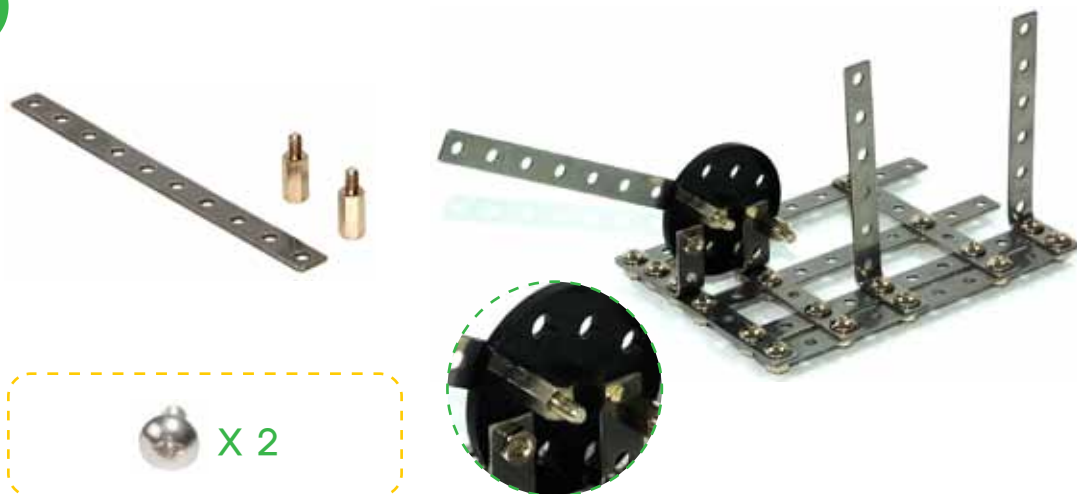


X 1

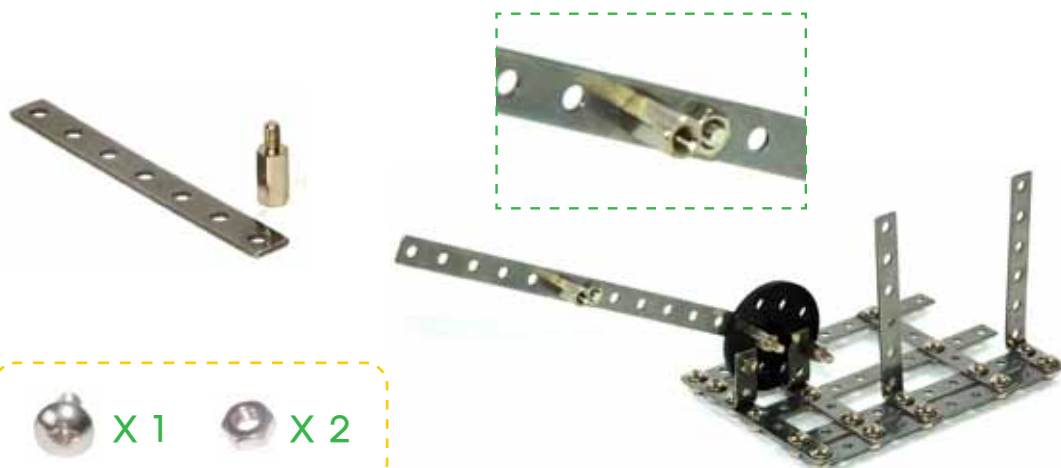


X 1

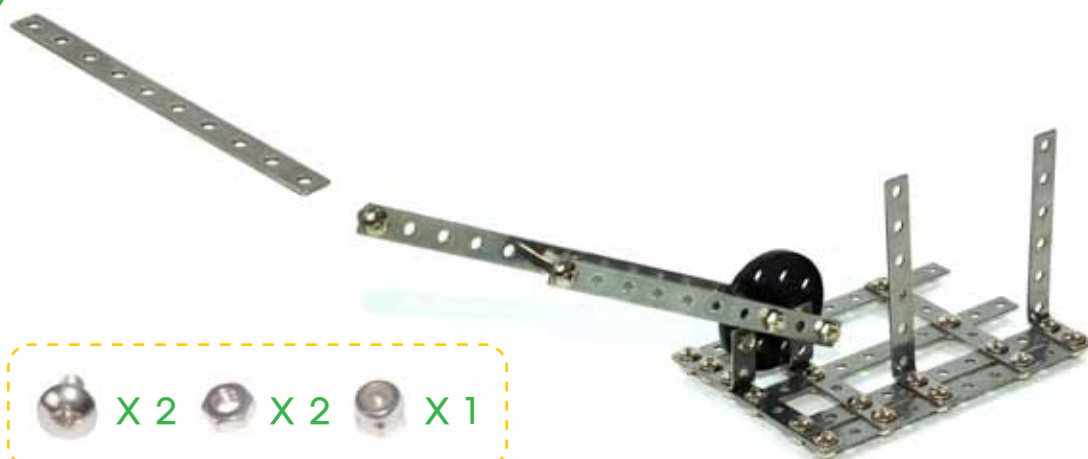
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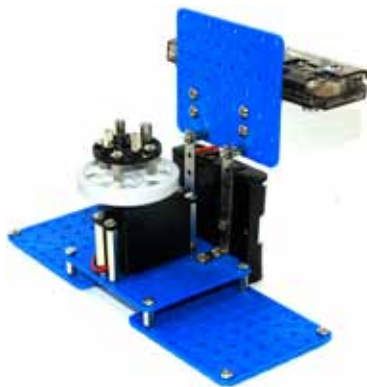


18



19

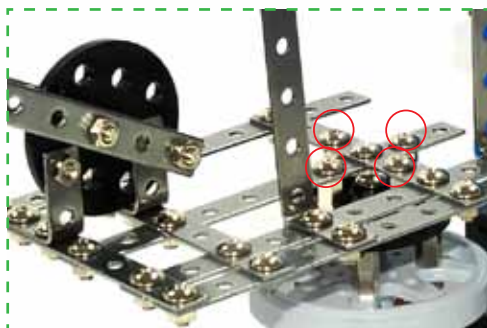
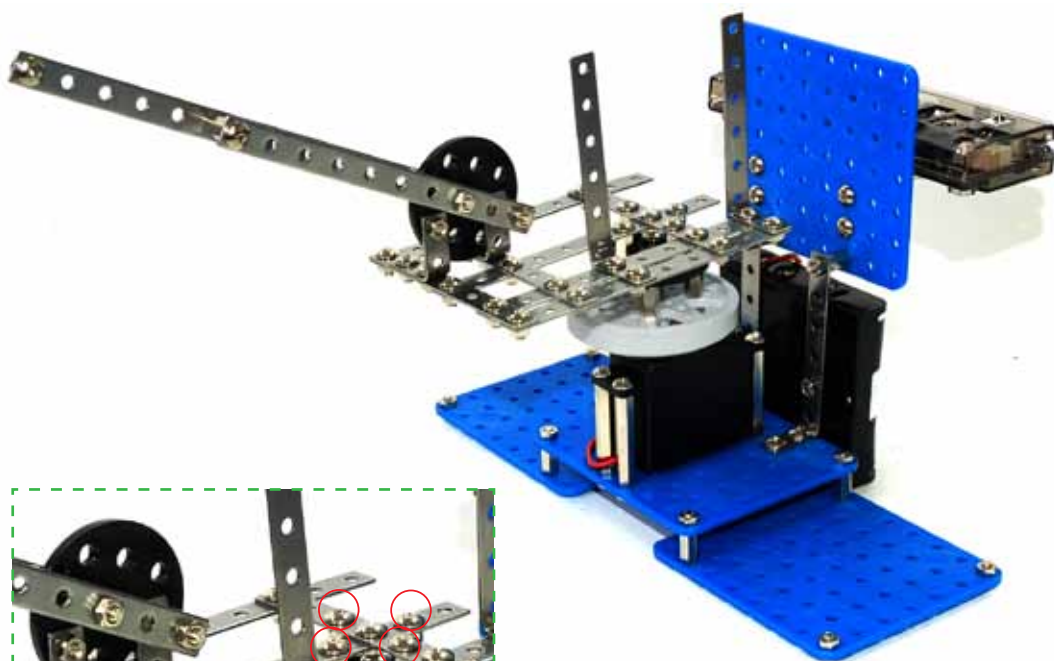


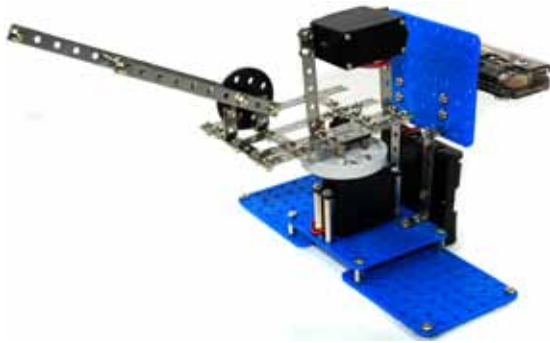


+



X 4

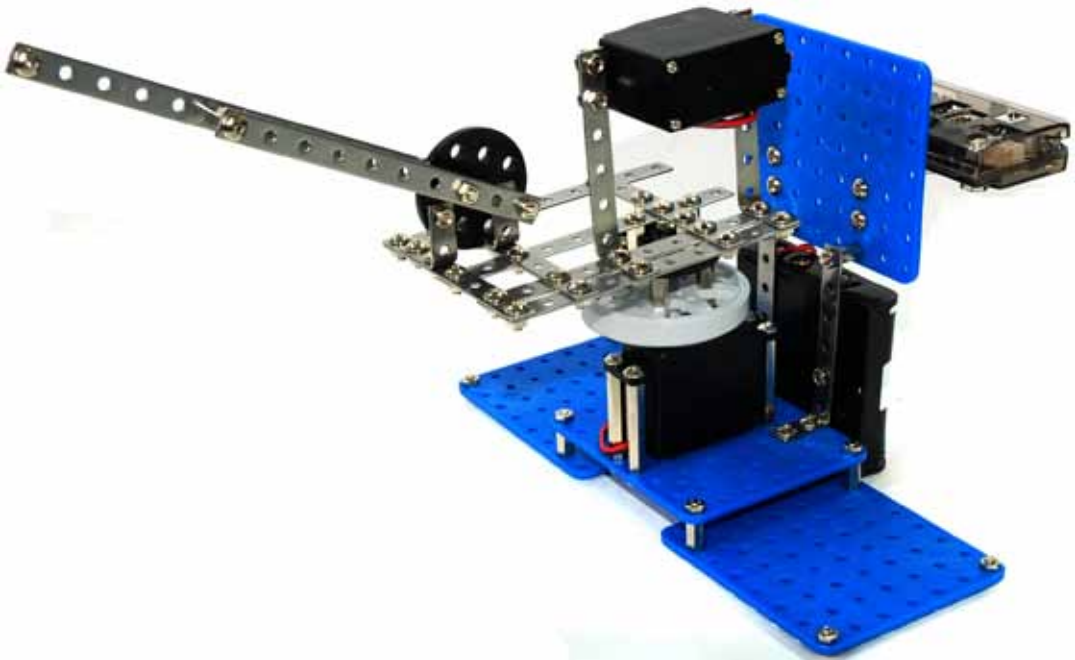


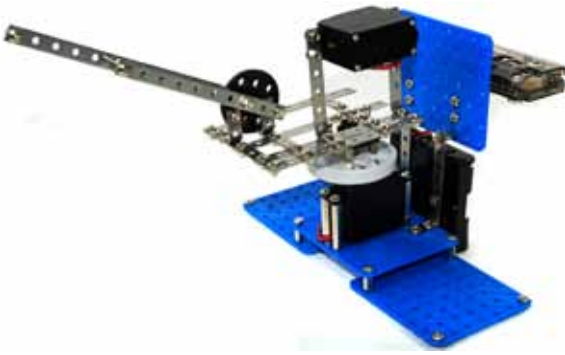


X 4

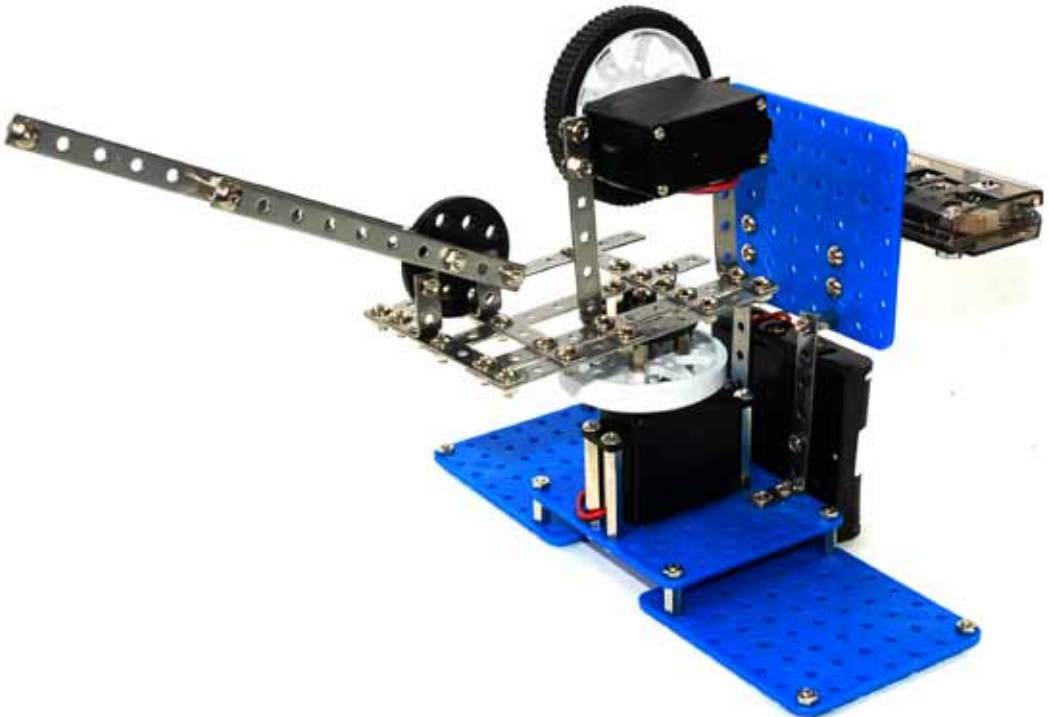


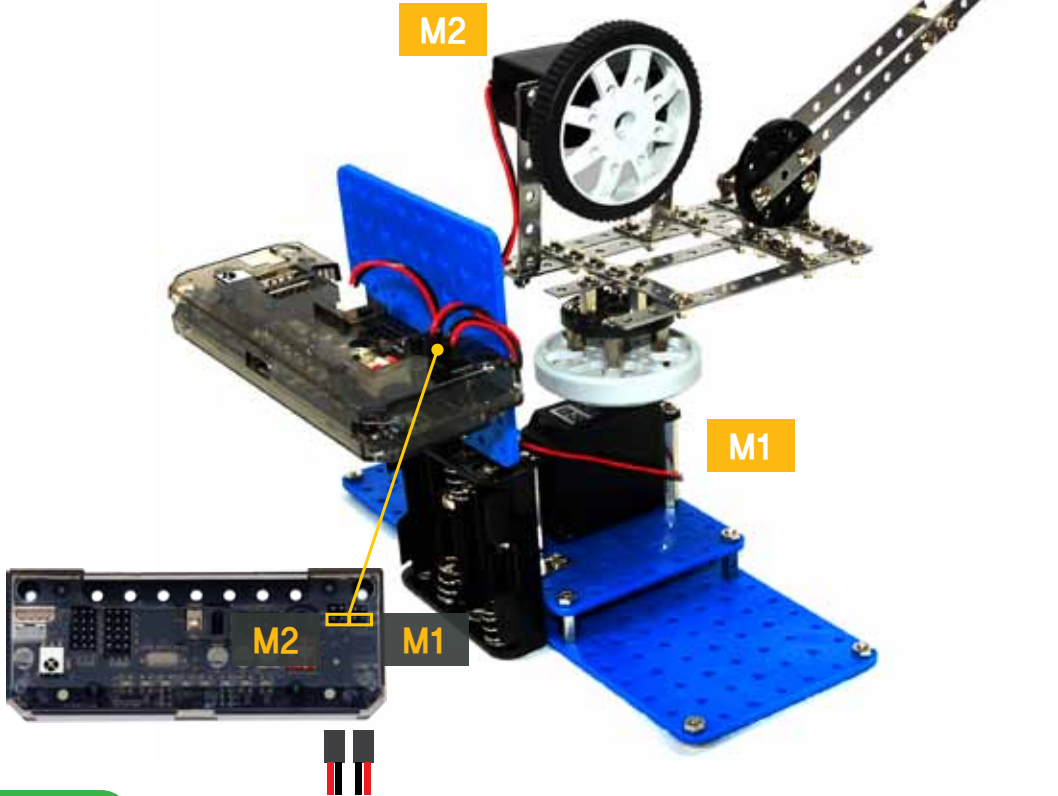
X 4



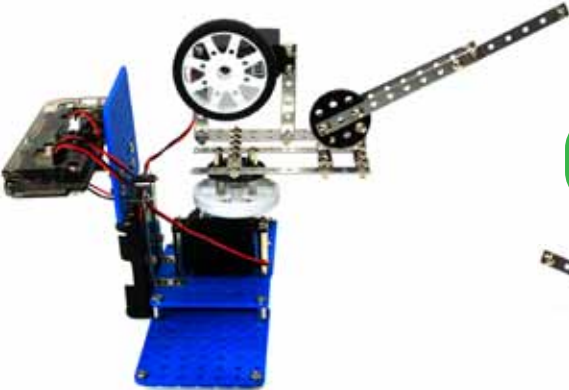


X 1

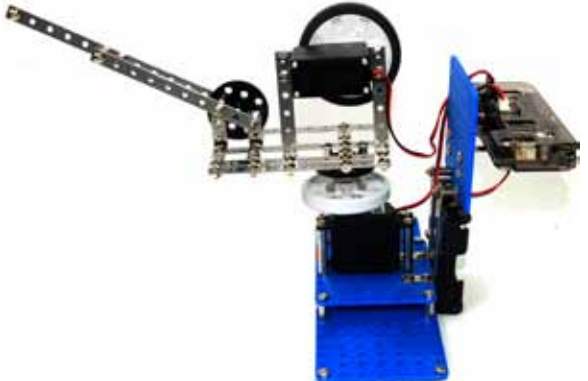




Left view



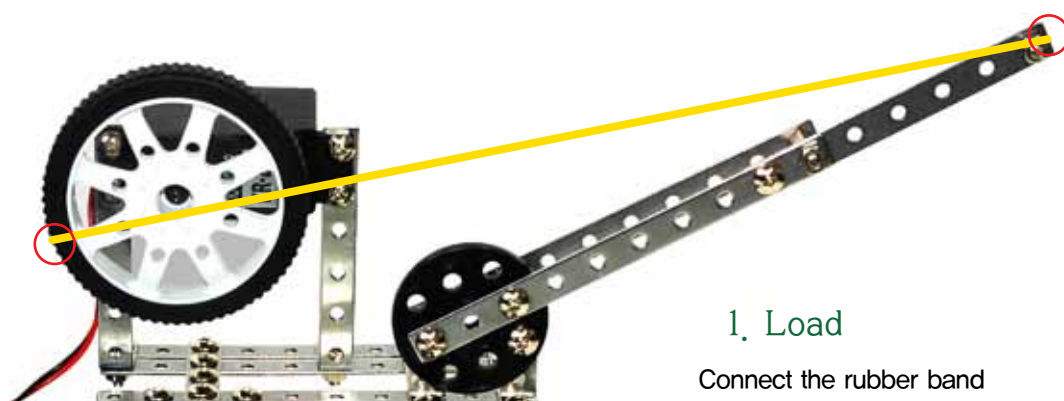
Right view



Acting Module



Turret Robot uses program mode 8 to operate.



1. Load

Connect the rubber band to the wheel.



2. Aim

Move the turret right or left by touching the right or left sensors.



3. Fire

When the center sensor detects your hand, the robot will fire the rubber band.