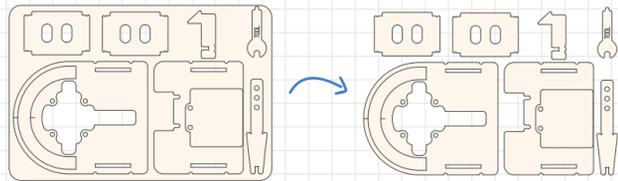


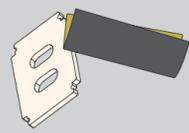
# Building Instructions

1 Take out the wood boards you need.



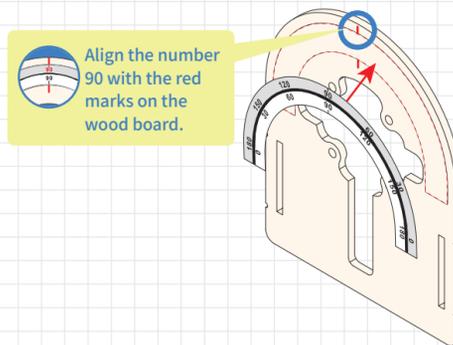
### Pro tips

Use the sandpaper included to sand a smooth finish on the wood board before you start installing it.



2 Take the scale bar off the coated paper. Stick it to the wood board as shown.

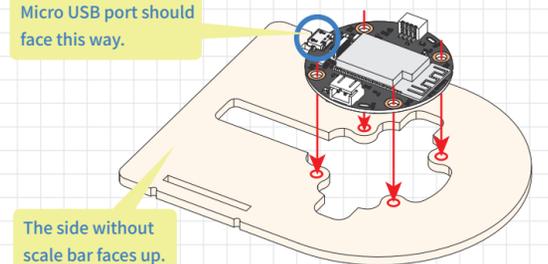
Align the number 90 with the red marks on the wood board.



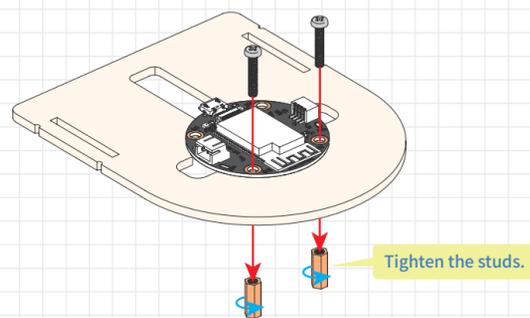
3 Install Halocode on the other side of the wood board. Ensure the four holes on Halocode align with the red marks on the wood board.

Micro USB port should face this way.

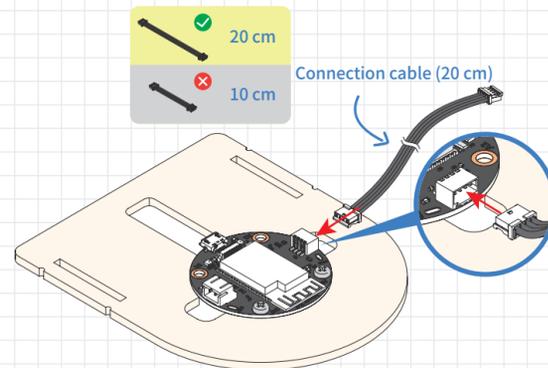
The side without scale bar faces up.



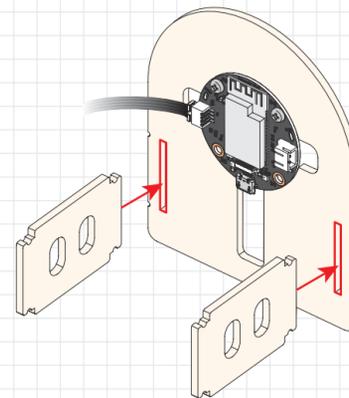
4 Hold Halocode in place with screws and studs.



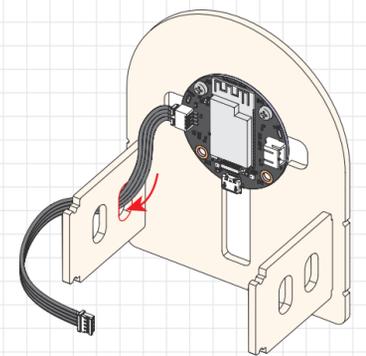
5 Connect the 20 cm connection cable to the expansion port.



6 Assemble the side boards.

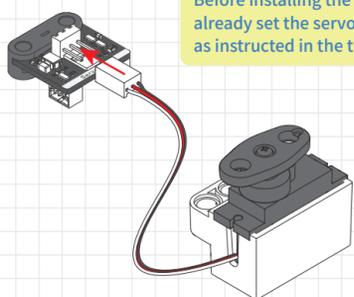


7 Put the other end of the connection cable through the red hole.



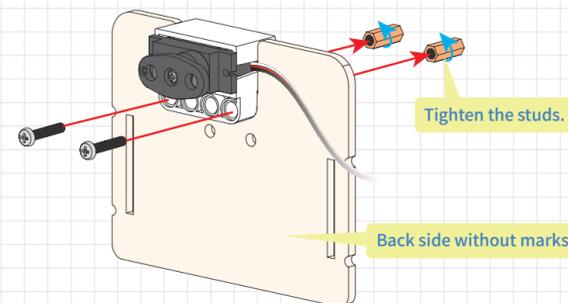
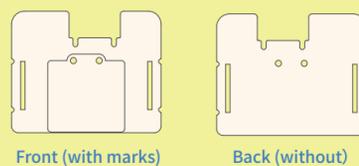
8 Connect the servo with the servo driver.

Before installing the servo, make sure you already set the servo to its zero position as instructed in the tutorial guide.

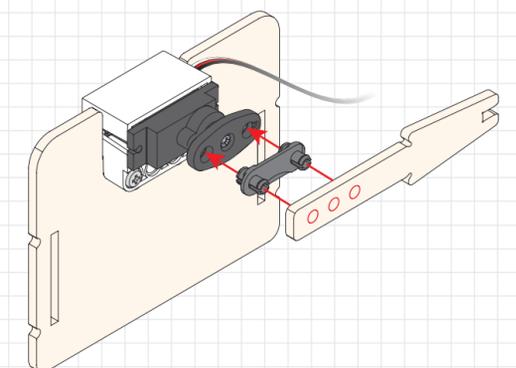


9 Install the servo onto the wood board.

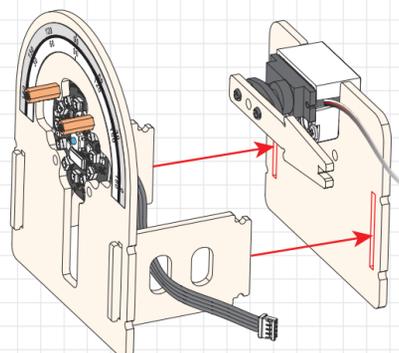
Make sure you correctly identify the front and back sides. The front side has marks while the back side has no marks.



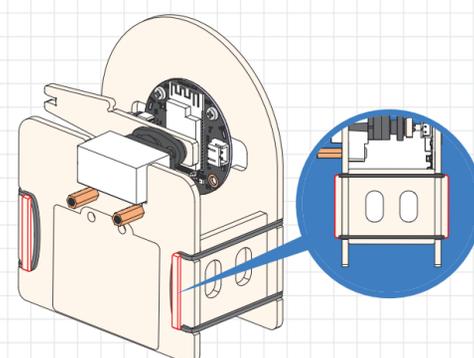
10 Use the M4 adapter to attach the board to the servo hub as shown.



11 Connect the two boards.

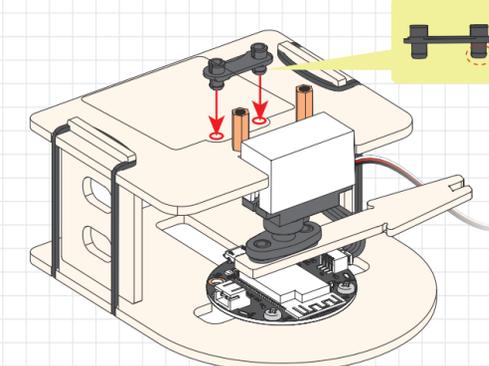


12 Use two rubber bands to bind these two boards.

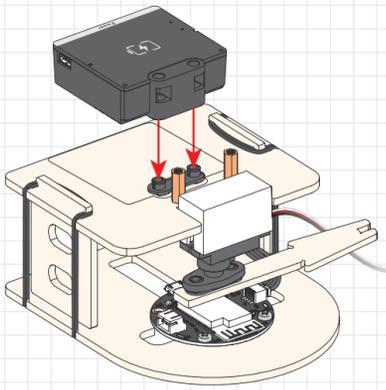


13 Take an M4 adapter. Insert its smaller ends into the holes on the board as shown.

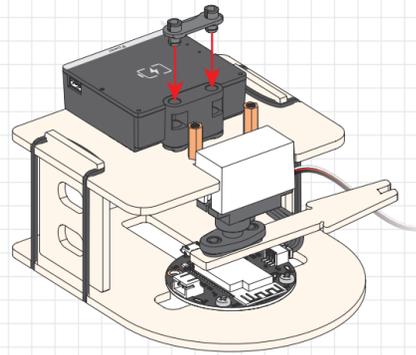
Notice? Always insert the smaller ends of an M4 adapter when connecting it to a board.



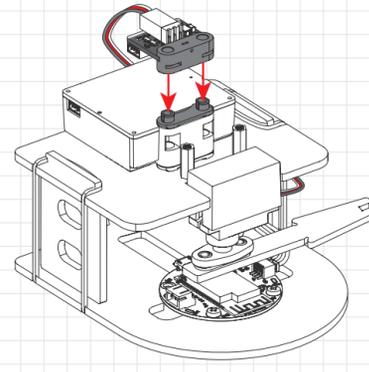
**14** Install the power module.



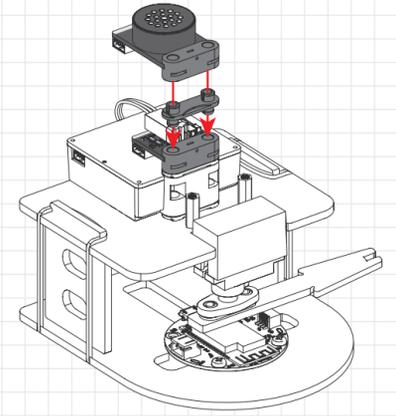
**15** Take an M4 adapter. Insert its smaller ends into the holes on the power module.



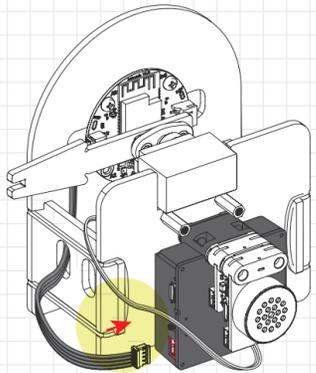
**16** Add the servo driver module to the power module.



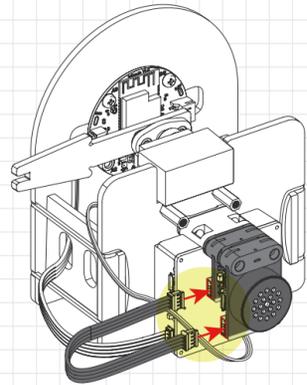
**17** Use an M4 adapter to connect the speaker to the servo driver module.



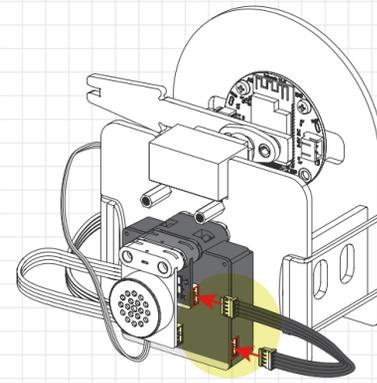
**18** Connect the other end of the connection cable on Halocode to the power module.



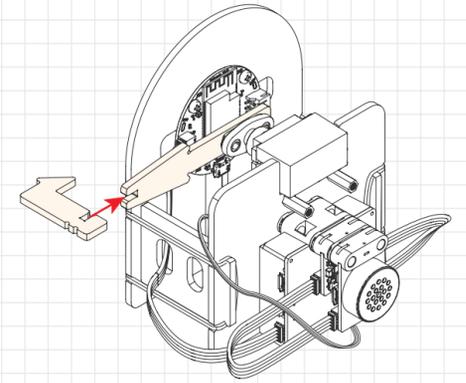
**19** Connect the servo driver to the speaker using the a connection cable.



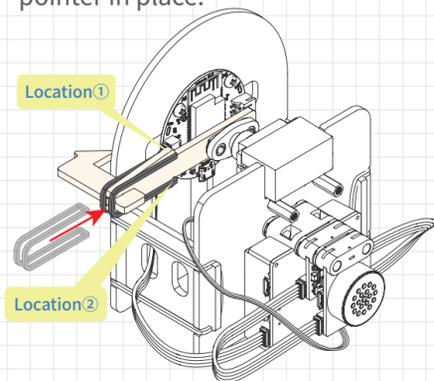
**20** Connect the servo driver to the power module.



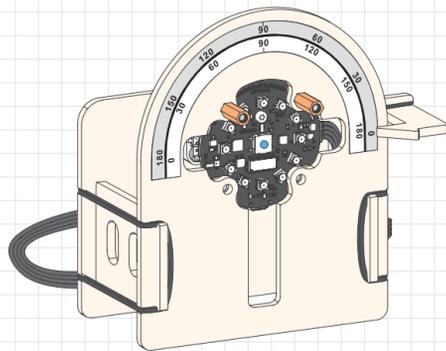
**21** Add the needle pointer.



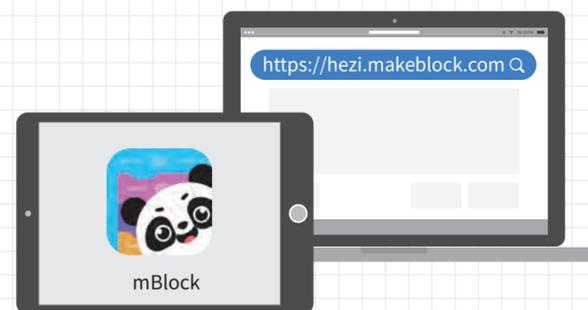
**22** Pull the rubber band from location ① to location ② to hold the needle pointer in place.



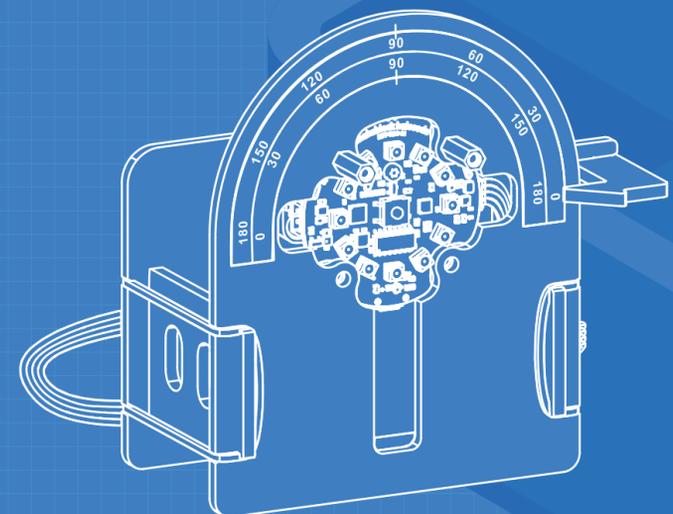
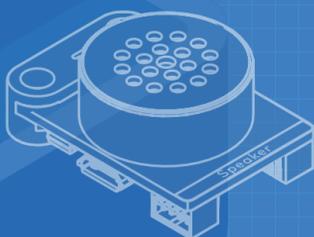
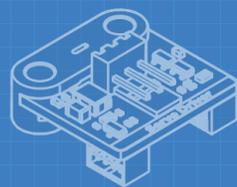
**23** Good job! The project is already done.



**24** Now, return to mBlock on your PC or iPad and program your project.



makeblock



Building Instructions  
Spinner Wheel