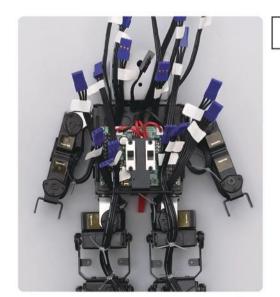
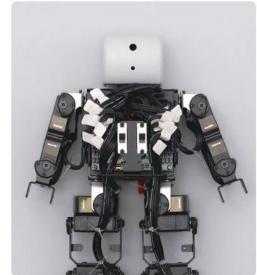
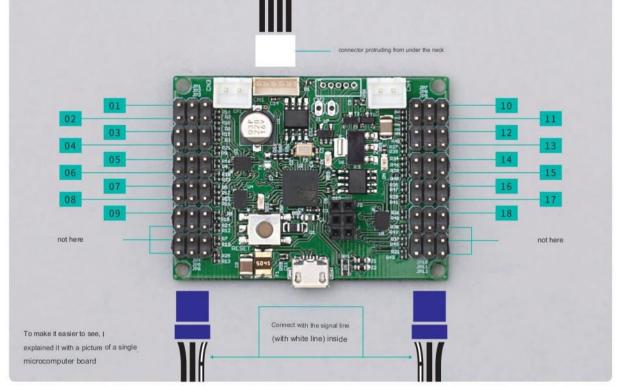
Connector connection







Insert the head connector into the pin of the "microcomputer board"

After connection

Insert the servo motor connector into the pins of the microcomputer board according to the numbers.

# Sheath installation



required parts



Shin plastic cover R-in [R-in engraved on the back]



Shin plastic cover L-in [L-in engraved on the back]





Shin plastic cover R-out Shin plastic cover L-out [R-out engraved on the back] [L-out engraved on the back]



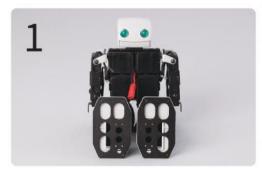
Sole plastic cover (x2) [Common for left and right]



② Screw M2×2.5 (4\_pieces)

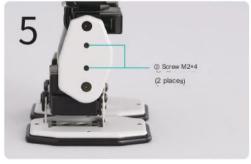


③ Screw M2×4 (12 pieces)



[Caution]
Do not use screw-fastening agent on the parts that fix the plastic

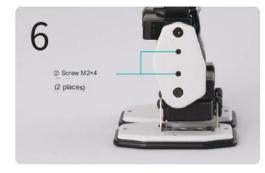




Attach "shin plastic cover R -out" with "③ screw M2×4"



Attach the "sole plastic cover" with "③ screws M2 x 4"



Attach "shin plastic cover L -out" with "3 screw



Attach the "shin plastic cover R-in" with "@ screw M2\*2.5"



Attach the "shin plastic cover L-in" with "@ screw M2×2.5"

# Sheath installation



#### required parts





back plastic cover

Front shin plastic cover (×2) [Common for left and right]





for left and right

② Screw M2×2.5 (12 pieces)





exterior!

Keep the cables on your back as compact as possible



Cover the "back plastic cover" and attach it with ② screws



Attach the "front shin plastic cover" with "② screw M2 x 2.5"



Attach the "Momo
Plastic Cover" with "②
Screw M2 x 2.5"

#### Sheath installation



required parts



Arm Plastic Parts R



Elbow plastic cover (x2) [Common for left and right



Arm Plastic Parts L

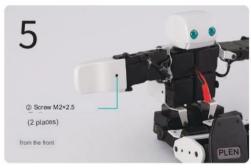


② Screw M2×2.5 (6 pieces)



[Note] Do not use screw fasteners on the parts that fix the plastic exterior.

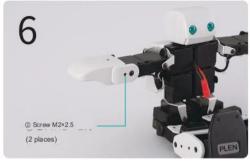




Attach "arm plastic parts R" with "② screw M2 x 2.5"



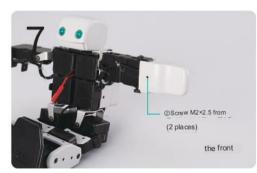
Attach "Arm Plastic Parts R" with "② Screw M2 x 2.5"



Attach the "elbow plastic cover" with "@ screw M2 x 2.5"



Insert the "arm plastic part L" into the "elbow frame"



Attach "arm plastic part L" with "@ screw M2 x 2.5"



Attach "arm plastic part L" with "@ screw M2 x 2.5\*



Attach the "elbow plastic cover" with "@ screw M2 x 2.5\*

# Battery pack charging

#### required parts



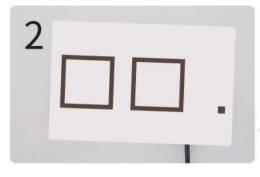


Battery Charger

battery pack



When the "Battery Charger" is plugged in, the light will turn blue



"battery pack" and the battery charger are connected, the lamp lights up in red. to start charging



When the charging is completed, the lamp lights up in blue, so please remove the "battery pack" immediately.

\*Charging takes about 60 minutes.

# Installing the battery pack

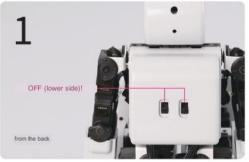
#### required parts



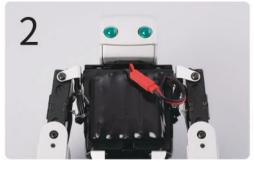


battery pack

belly plastic cover



Make sure both power switches are OFF (down)



Connect the connector of the "battery pack" and the connector of the main unit

Don't move PLEN2
For safety, remove
the battery and
attach only the "belly
plastic cover".



Cover the "belly plastic cover" over the "battery pack"

Just slide it up and insert the hooks of the "belly plastic cover bar" into the two holes under the neck. to watch



the red circle part of the photo Remove the "belly plastic cover" while pressing it with your thumb.

#### attach

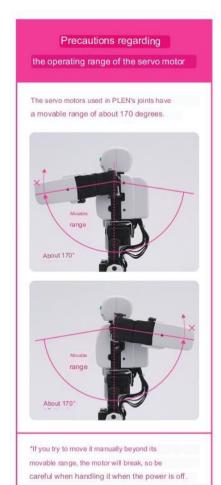
(The claws of the "belly plastic cover" will hang on the hole indicated by the dotted line.)

Remove the "belly plastic cover"

When removing, reverse the procedure

and remove while pressing the
red direled part with your thumb.

Complete

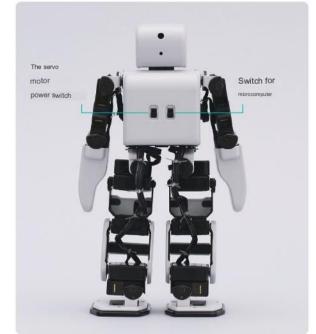






Allow slack in leg cables さい





How to assemble roller skates

\* Please refer to the separate "Assembly of Roller Skates" manual.

How to operate on iPhone

\* Please refer to the separate sheet "How to operate from various apps iPhone version".

How to operate on Android

\* Please refer to the separate sheet "Operating methods from various apps for Android".

# if you thought it was a malfunction

Power does not turn on	$\rightarrow$	The battery may be dead. Be sure to charge the "battery pack" until the "battery charger" light turns blue.	
(2) Falling frequently / Feeling weak	->	The battery may be dead. Charge the "battery pack".	
When the switch is turned on, even if you are not doing anything  A high-pitched squealing sound is heard intermittently	<b>→</b>	This sound is unique to digital servo motors. This is not a malfunction.	
Something like oil comes out of the servo motor	$\rightarrow$	The grease inside the case of the servo motor is seeping out. This is not a malfunction, but please wipe it off with a cloth.	
Do not walk straight	$\rightarrow$	A robot that walks on two legs cannot go perfectly straight. If it bends too much, please contact our support center.	
Joints are stiff and do not move	it	It may be moving to a position beyond the movable range of the servo motor. Don't try to force  -> turn on the power. At that time, if an abnormal sound is emitted or the servo motor does not  move, immediately turn off the power and contact the support center.  *Repair is charged	
⑦ Shaky joints / idling	<b>&gt;</b>	The servo motor stopper may be damaged. Please contact the support center. *Repair is charged	
I dropped it	$\rightarrow$	If you find any abnormalities in operation, please contact the support center as soon as possible. *Repair is charged	

	quadrature	accessories
CPU	Arduino compatible	Complete PLEND assembly kit
rearcher of joints.	18 axes	charger
communication port	USB	ball
radio equipment	Bluetooth	box (paper craft)
Operating time	About 25 minutes (fully charged battery)	Phillips screwdriver (1)
size	height 250mm	
	Width 130mm	
	Depth 70mm	
weight	700g	

# **DMM.**make ROBOTS