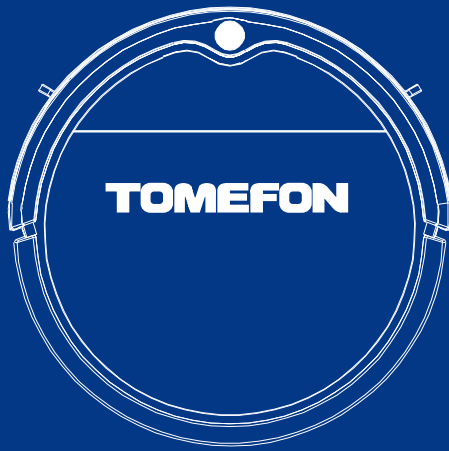


**TOMEFON**



# **TCN805**

## PRODUCT MANUAL

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# Contents

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# Safety Instructions

Before using this product, please read the following safety instructions and follow all the safety precautions.

- ▲ Please read this user manual carefully .
- ▲ Please keep this user manual.
- ▲ Any discrepancy operation with this instruction may cause damage of the product.
- ▲ Our company keeps final explanation rights.

## Warnings

<p>Only a designated technician can disassemble , repair and transform the product. Otherwise it may cause fire, electric shock or personal injury .</p>	<p>Please only use the provided adapter along with the robot. Other adapter may cause electric shock , products damage or fire .</p>
<p>Please do not touch the high pressure power cord , when your hands are wet .</p>	<p>No overbend power cord or put heavy weight products on it, otherwise it may cause the damage of power cord ,fire or electric shock.</p>
<p>Please be careful of your cloth and body parts (such as head ,fingers etc.)to be rolled into brush or wheels.</p>	<p>Please do not get close to heat source objects such as cigarettes , lighters matches and other flammable materials (like gasoline),and let alone gasoline cleaning the machine .</p>

## Attention

<p>Please turn off the power switch during transporation or long time storage ,otherwise it may damage the battery.</p>	<p>The charger power cord should be plugged tightly , otherwise it may cause electric shock ,short circuit ,smoke or fire .</p>
<p>Please make sure charger plug into socket firmly ,otherwise it may cause charging stopping ,even fire.</p>	<p>Before first use or reuse after long time storage, please charge 12 hours at least to prolong the battery lifetime, because only fully pass discharging-charging cycle, the battery can achieve the best efficiency.</p>
<p>Please remove the battery with full charging and put it in a cool place to keep the appliance bottom dry, when you plan stopping using vacuum cleaner for a long time.</p>	<p>Before first use, please remove all vulnerable objects (Such as light-emitting objects, textiles, bottles, etc.) otherwise they may cause themselves damage or affect machine function.</p>
<p>Please be careful to use vacuum cleaner when the children are present to avoid frightening the children.</p>	<p>Please do not sit or stand on the vacuum cleaner to avoid appliance damage or personal injury.</p>
<p>Warning: No liquids such as water is permitted to suck up to cause appliance damage.</p>	<p>Please do not use the vacuum cleaner in a small space (such as chairs ,tables ,etc) to avoid appliance damage.</p>
<p>For indoor use only.</p>	<p>Do not use the vacuum cleaner in a commercial place. Excessive use may cause product damage.</p>

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# Features

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## 1. WIFI APP control

To start, stop, recall your robot cleaner at any time, anywhere in the world as long as there is internet.

## 2. 2D map navigation

The robot can detect the entire environment around and then build up the map inside the CPU so that it do cleaning with plan from one place to another.

## 3. Memory function

The robot is with memory to know where has cleaned while where hasn't thus one-time sweeping coverage is more than 98%. The cleaning path repetition rate is about 1%.

## 4. Intelligent voice prompt

Intelligent voice reminder under charging, glitch , full dustbin, and wheel twining .

## 5. Powerful suction

Powerful vacuum suction picks up dirt and dust easily.

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## Features

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### 6.Garbage sense

You need to manually clean the dustbin ,when sounds is warning , trash light will be highlighted on the LED display .It means dustbin is full or dust suction port is stuck .

### 7.Humanized design

In the standby mode, tap “  ” button on the robot, the product will automatically run.

### 8.Automatic recharge

Automatically returns to charging base when power is low.

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# Product Presentation

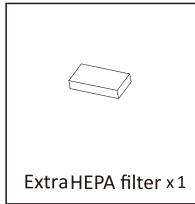
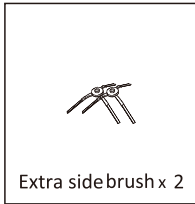
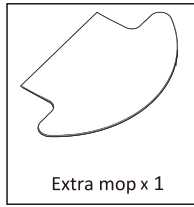
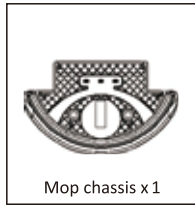
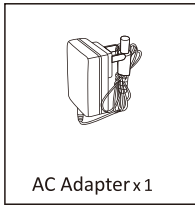
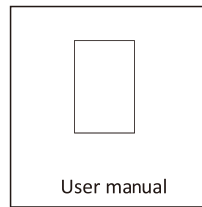
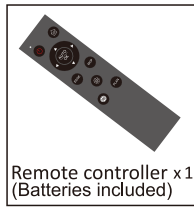
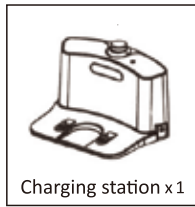
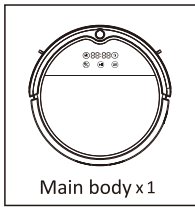
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This appliance can be used on low/hard carpet , hardwood & ceramic tile of family house, hotel room & office . P.s.: Wet cleaning does not work for carpet.

## Function

Built-in rechargeable lithium-ion battery. It has intelligent features including WIFI APP, map navigation, memory, auto cleaning, dust sweeping, wet mopping, timer setting, scheduled cleaning, remote control, self-protection, self-charging and UV sterilizing etc.

## Main Body and Accessories



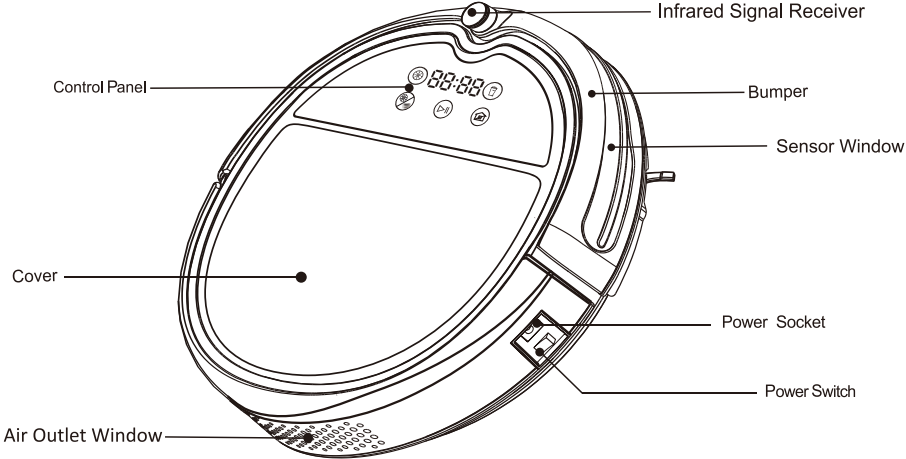
Note: Please be subjected to final products, above pictures are just for your reference.

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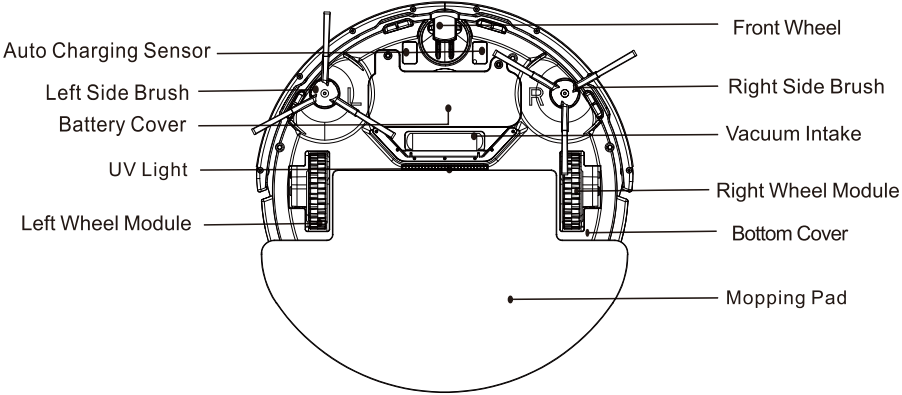
# Main Body Structure Introduction

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## Top



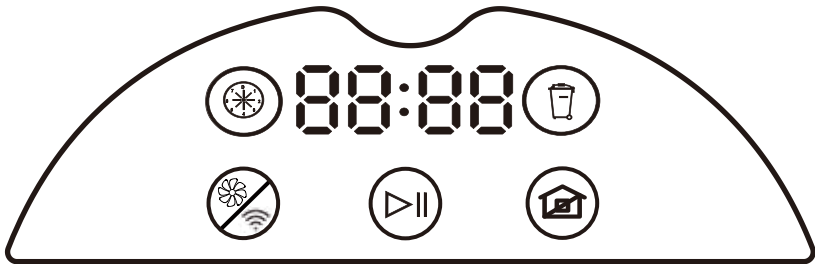
## Bottom



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# LED Panel Instruction

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▲ Remark: Before using, please remove the small items or barrier out of the room, especially power cord , which cause twining easily . Robot will automatically stop cleaning and go back to charging base when electricity gets shortage.



## Auto- clean

Just press this button, the robot will plan to clean automatically.

It will automatically go back to charging base when electricity gets shortage.

Touching this button on the panel again stops cleaning.



## 1. Powerful/Low noise

During cleaning ,Press button “” to adjust suction power level.

## 2. WIFI matching button

Press this button to connect WIFI.(Please refer to the *Quick Guide for App Using*.)



## Recharge button/Home button

Automatically returns to charging base.



## Timer for cleaning time setting

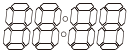
Pressing button “” on remote controller ,the panel icon “” will be

highlighted to preset cleaning time. (Please refer to remote control setting specification on page 11).

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# LED Panel Instruction

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## Digital display

- a. Error codes-for example E001
  - b. Hour/minute display,for example 08:28 AM reads 08:28
  - c. When charging, the display will read as below
- Light Flashes “1”, if power is less than 25%.
- Light Flashes “11”, if power is less than 50%.
- Light Flashes “111”, if power is less than 75%.
- Light Flashes “1111”, if power is more than 75%.
- Stop flashing reads”1111”, if power is more than 90%.
- “FULL “means full power



## Spam button instruction

If the icon "" turns on, it means that the suction port is stuck , dustbin is full or the sensor is covered by dust.

- ▲ Remarks: it is recommended to clear the dust on the suction port and sensor when emptying the dustbin.

## Battery Installation and Replacement

- A.Remove two screws on battery cover with screw driver.
- B.Open the battery cover.
- C.Take out the battery.
- D.Disconnect the wire connector that connects the battery and the cleaner.
- E.Put the new battery into the battery holder.
- F.Reconnect the wire connector with the battery to make sure the battery are installed properly.
- G.Put the wire in good shape.
- H.Put the battery cover back and make sure side brush is not stuck in.
- I.Lock battery cover with screws.

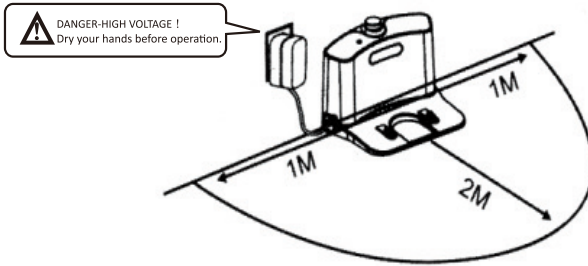
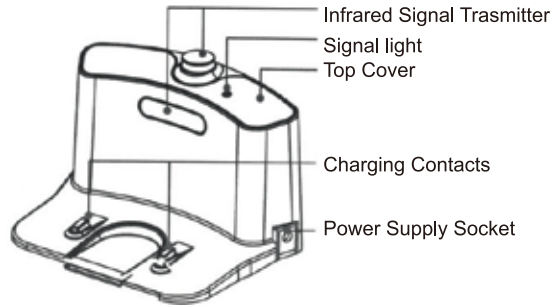
Note :Only use factory authorized batteries, or it may cause damage to the product.

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# Charging Station Instructions

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## Charging station introduction

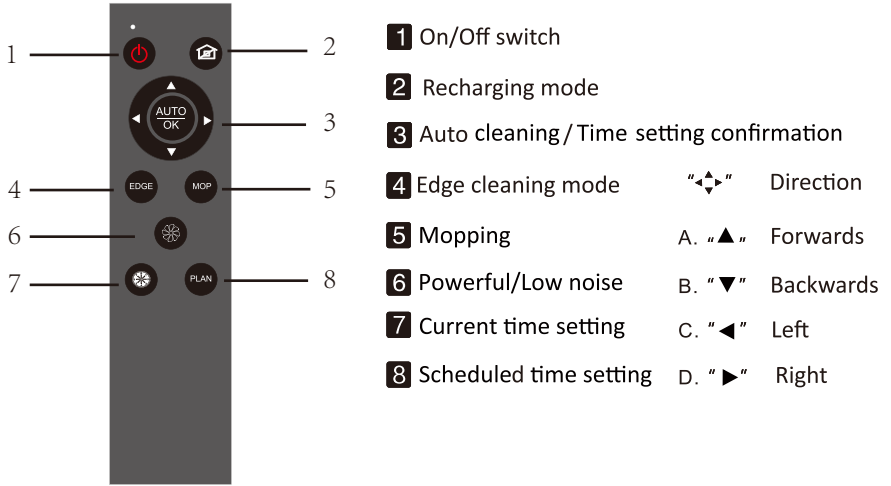


## Charging station instructions

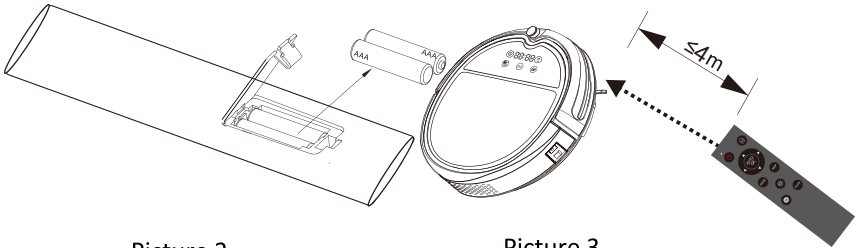
- 1.Place the charging station on a flat surface against wall .
- 2.No obstacles & rough area shall be existed within 2 meters in the front of & 1 meter to left& right of charging base.
- 3.Please keep IR emitting surface clear , otherwise the main body may have trouble in finding the dock.
- 4.Ensure DC- power cord is tidy ,otherwise the main body may have trouble in finding the dock.

Tip:After the machine is fully charged,please turn off the machine when you don't need to work.If you keep charging for a long time,it will cause electrical damage!

# Remote Control Instructions



Picture 1



Picture 2

Picture 3

- Remark:1.Place 2 AAA batteries into remote controller.(see picture 2)
2. please keep remote controller exactly align to IR sensor and keep the distance between remote controller and robot within 4 meters to avoid failure operation.

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# Product Operation

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## 1.Attention

- \* Please check the cleaning area as below guidelines before vacuum working
- \*Scattered power cord on the ground and other debris may hold & wind products, please be sure to remove before use.
- \* Please work it on fringes- hided carpet or short haired carpet .
- \* Furniture bottom height space less than 9.5cm may make the robot be stuck . Please lift it up .

## 2.Quick operation

### a. Charging preparation

- \* Connect AC adapter and charging station
- \* Place the charging station against wall. No any other items 2 meters from front ,1 meter from left & right shall be put and do not place it near any powerful reflection object like a mirror.
- \* Connect power



### b. Turn on the main body

- Turn the power on, “1” means on, “0” means off.
- \*After finishing cleaning ,please do not shut down the machine but keep it in charge state for good working next time.

### c. Charging



- \*Put the main body to the charging station and make sure it is on charging sensor .
- \*Main body panel light flashing means under charging .If display reads FULL, it means charging completed .
- \*Before first use, please charge it more than 12 hours continuously .

### d. Pause work

- \*Press the cleaning button “” on the display panel or the cleaning button “” on the remote control to suspend work .

## 3.Cleaning modes

### a. Automatic cleaning mode

Short pressing button “” on LED panel or button “” on remote control , the machine will clean room automatically & adjust route according to different floor environment .After cleaning ,the robot will automatically return to charging station for charging.


### b.Mopping

Pressing button “MOP” on remote control, the robot will mop only,the fan will stop working.

### c.Edge cleaning

Press button “EDGE” on remote control, the cleaner will clean the edge accordingly.

### d. Automatically recharge

Pressing button “” on remote control or machine on low power, the cleaner will return to the charging station for charging automatically.

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# Current/Scheduled Time Setting on Remote Control

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## Current Time Setting by Remote Control

- A. Press "⊗" button, the hours at "## : ##" on LED display will flash.
- B. Press "▲" button to increase or decrease hours.
- C. Press "◀ ▶" button to move from hours to minutes.
- D. Press "▼" button to increase or decrease minutes.
- E. Press "OK" button to save the current time setting.

## Schedule Setting by Remote Control

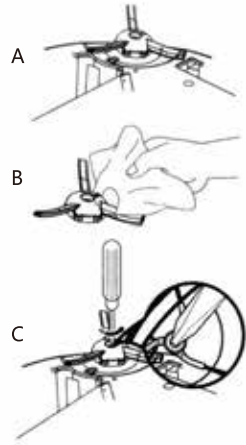
After current time setting, you can do schedule setting

- A. Press "PLAN" button, the hours at "## : ##" on LED display will flash.
- B. Press "▲" button to increase or decrease hours.
- C. Press "◀ ▶" button to move from hours to minutes.
- D. Press "▼" button to increase or decrease minutes.
- E. Press "OK" button to save the schedule setting.
- F. To cancel scheduling, press "PLAN" button first, then press "⏻" button.

# Product Maintenance

## Clean Side Brushes

- A. Check the side brushes to see if they are broken or something on it.
- B. Clean the side brushes with the cleaning tools or cloth.
- C. When the side brushes are found to be out of service, please replace a new one. The steps are as follows :
  - Remove the screws of the side brushes.
  - Replace brushes with new ones.
  - Use screws to lock the new brushes in place.



## Clean dust bin and filter

- A. Press the "PUSH" button to open the cleaner cover.
- B. Take out the dust bin.
- C. Separate HEPA filter from dust bin.
- D. Pull out the dust bin cover and take out primary filter.
- E. Empty dust bin and wipe the dust.
- F. Wash dust bin with water.
- G. Clean filter with cleaning brush tool. Do Not wash them with water.

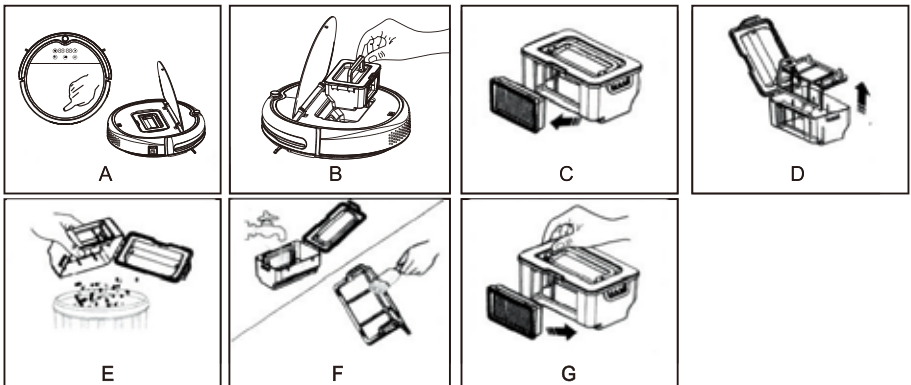
Note : 1. Clean dust bin when "Ⓟ" icon flashes on the display panel.  
2. Do not wash HEPA filter and replace it after one year usage.

H. Install primary filter and HEPA filter into dust bin.

Note :

1. Install both HEPA and primary filters when they are dry.
  2. Do Not expose HEPA and primary filters directly to the sun.
- I. Close dust bin and install it into the cleaner.

Note : Dust bin and filters (including HEPA and filter) could be replaced if needed.



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# Troubleshooting

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## Error Codes and Solutions

Error codes will be shown on display panel if there is a problem with the cleaner.

Error Code	Reason	Solution
E001	Left Wheel lifted up	Place robot to a new flat floor
E002	Brush roller is twining	Take it out and clean
E003	Right wheel lifted up	Place robot to a new flat floor
E004	Left wheel is entangled/stuck	Clean it
E005	Right wheel is entangled/stuck	Clean it
E006	Uneven ground	Place robot to a new flat floor
E007	Side brush is twining	Clean it
E008	Speed sensor dysfunction	Install code disc correctly
E009	Collision sensor is stuck	Clean collision detection plate
E010	Long time no collision	Check if front component is failure
E012	Ground sensor is blocked or failure	Clean the ground sensor
E015	Vacuum motor/dust motor is stuck	Clean the motor
E016	Electricity flow more than 3A	Clean the movable accessories
E017	Power switch is off during charging	Please turn it on ,then charge

Note :If the error condition is not resolved, do the following:

- 1.Restart the cleaner by turning off and on power switch.
2. If restarting doesn't work, please contact our After-sales service center.

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# Specification

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## Specification Parameter

o	Ttem	Specification	Remarks
1	Nominal voltage	14.8V	
2	Power	25W	
3	Operating temperature	-10°C~45°C	
4	Input voltage/current	24V/1A	
5	IR remote control	38KHZ	
6	Dimension	Φ34cmx 9cm	
7	Weight	3KG	
8	Battery	2000mAh Li-ion battery	
9	Dustbin capacity	0.5L	

## Charging station Specification

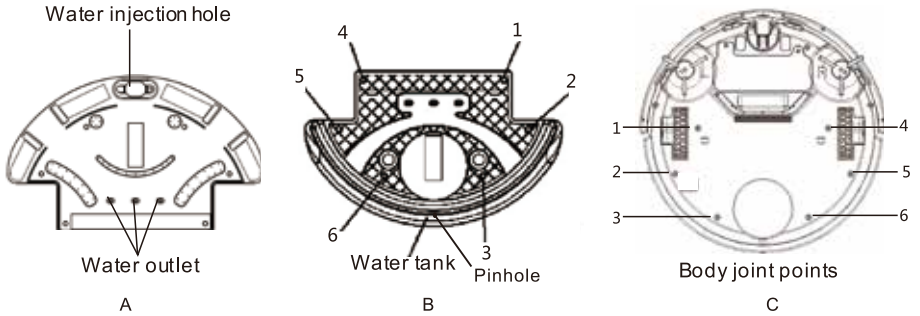
Item	Specification		Remarks
Dimension	length	165mm	
	width	126mm	
	height	103mm	
Input voltage	DC 24V/1A		
Operating temperature range	-10°C~45°C		
Operating humidity	≤85RH		

## Remote control Specification

Item	Specification		Remarks
Dimension	length	150mm	
	width	38mm	
	height	14mm	
Operating temperature	-10°C~45°C		
Operating humidity	≤85RH		
Battery	3V(AAA)		
Launching mode	IR		
Transmitting distance	≤4m		

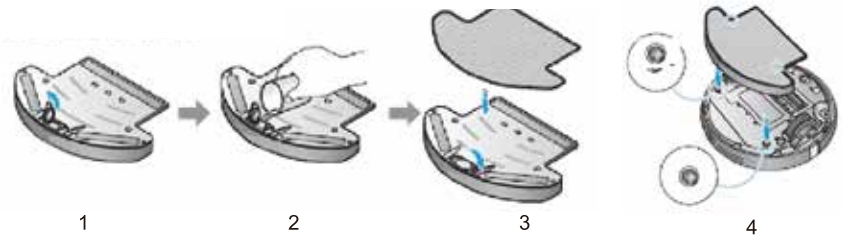
# Installation of Water Tank Trailing Bar

## How to assemble the water tank trailing bar



### How to handle the water tank trailing bar

1. Open the water injection hole, after water injected, stick the mop to the right place (1 2 3).
2. Aim at the relevant holes and assemble the trailing bar on the cleaner(4).



1. Please block the pinhole with your finger while injecting water into the tank, assembling and disassembling the water tank, otherwise the water will leak out of the pinhole.
2. Make sure take off the water tank trailing bar first, then inject the water.
3. Make sure that the water tank has no much water inside to avoid the wheel slip.

# Harmful Substances

The element and volume of harmful substances

Accessories	Harmful Elements						Valid date (year)
	(Pb)	(Hg)	(Cd)	(Cr <sup>6+</sup> )	(PBB)	(PBDEs)	
Plastic	○	○	○	○	○	○	10
Back bottom	○	○	○	○	○	○	10
LED panel display	○	○	○	○	○	○	10
Nose wheel	○	○	○	○	○	○	10
Side brush	○	○	○	○	○	○	10
High density rubber wheels	○	○	○	○	○	○	10
Moto	○	○	○	○	○	○	10
Recharge base	○	○	○	○	○	○	10
Virtual Blocker	○	○	○	○	○	○	10
Suction	○	○	○	○	○	○	10
Switch	○	○	○	○	○	○	10
Dustbin	○	○	○	○	○	○	10
	○	○	○	○	○	○	10
<p>Remarks:</p> <p>Symbol “O” means the harmful element volume below the limitation of standard GB/T 26572-2011</p> <p>Symbol “▲” means the harmful element volume exceeding the limitation of standard GB/T 26572-2011 but below ROHS regulation.</p> <p>Symbol “X” means the harmful element volume exceeding the limitation of standard GB/T 26572-2011 &amp; ROHS regulation (It's Exemption Term is included).</p>							

Manufacturer: Guangzhou Tomefon Technology Co.,Ltd.  
Address: Block 2, Industry Building, No. 555 Panyu Avenue,  
Guangzhou, China  
Website: <http://www.tomefon.com>

