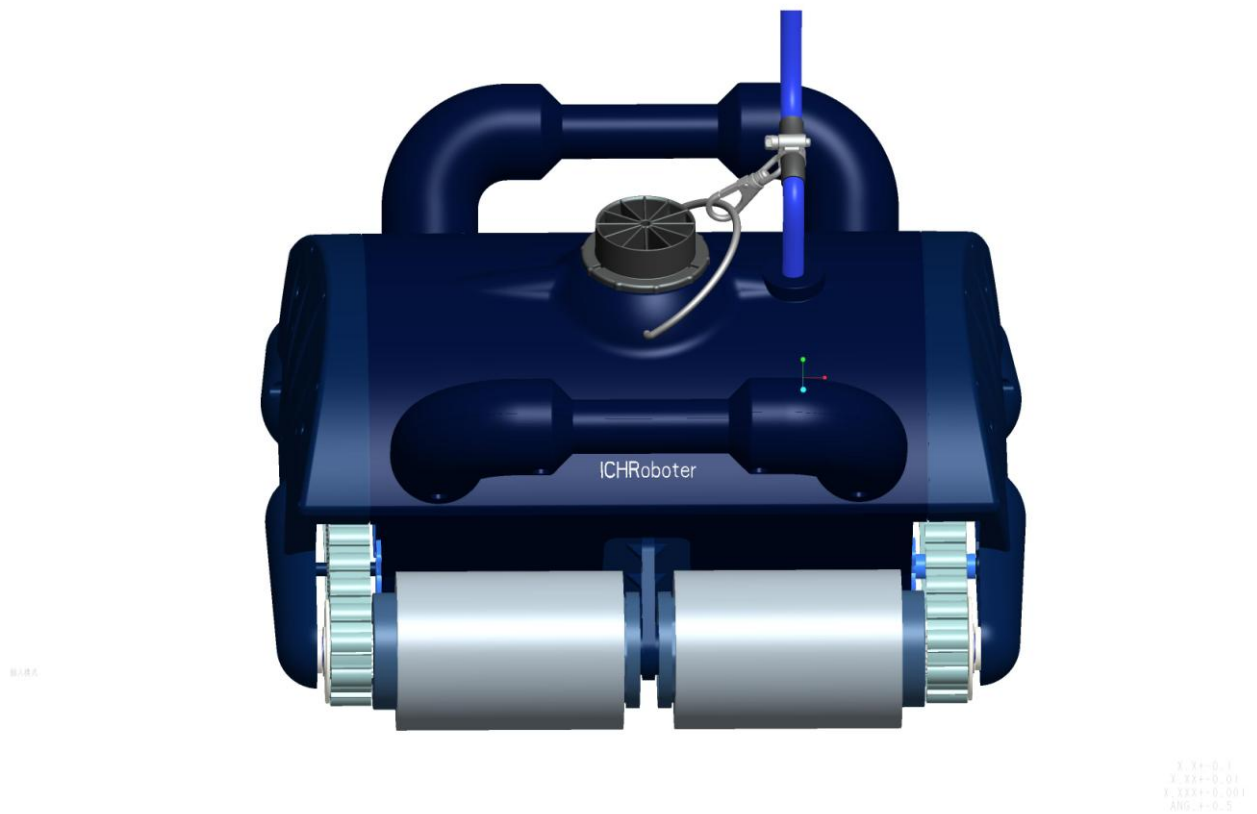


ICHRoboter RPC-1 User Manual



Hangzhou Gaoyue Technology Co., Ltd.
<http://www.ichroboter.com>

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1 Security Alert

Please read the manual carefully before operating the pool cleaner.



When the machine has problem or it maintains, please make sure disconnect the power in case of personal injury or property loss



When the cleaner is working in the pool, swimming is strictly prohibited in case of personal injury.



The pool cleaner is not suitable for any other cleaning usage except cleaning the pool. We are not responsible for any improper usage.



It is prohibited to water inflow power supply box, and the power supply box will be put the place of shady, dry & venting.



Don't operation the machine under thunderstorm in case of personal injury.



Don't disassemble the parts except the manual stipulation, and prohibited to disassemble the machine out of the manual



The pool cleaner is prohibited to work on the ground.



If you don't use the pool cleaner in long term, please clean the machine, turn off the power, and put the pool cleaner in a shady, venting & dry place.



If the cleaner doesn't work, please refer the trouble shooting. If you cannot find the root cause, please contact your local dealer. The dealer is responsible for repairing.



Suitable working environment temperature of pool cleaner is 10°C-32°C, don't put the machine under Sunshine

2 Products overview

2.1 Function introducing

- ✧ Automatic cleaning: the default mode is automatic while the machine is on power, if we don't operate the remote control, the machine will operate in automatic mode

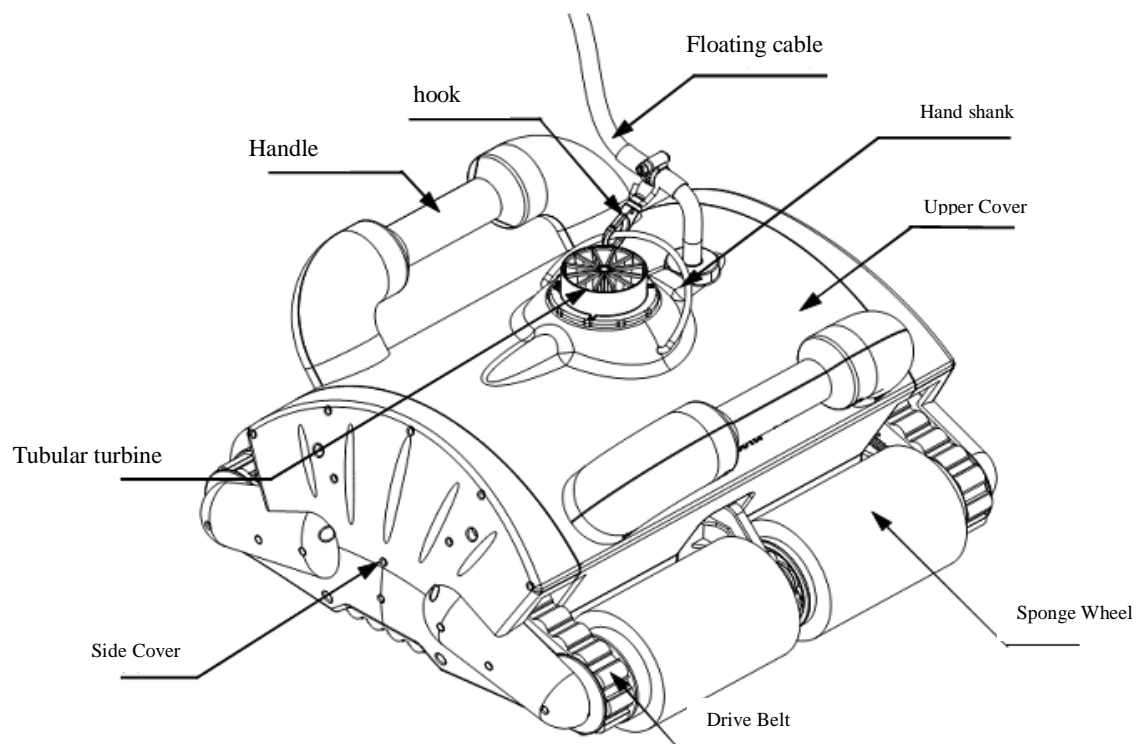
- ✧ Overall cleaning: the machine not only clean bottom of pool, but also clean wall, at the same time, the machine will filter water: if the diameter of dirty larger than accuracy of filter bag (you can select the accuracy of filter bag), the dirty will be collected into filter bag.
- ✧ Timing cleaning: you can set the clean time with remote control, the machine will shut down when cycle time is over.
- ✧ Manual cleaning: you can clean the area what you want with remote control.
- ✧ Self protection out of water: impeller decelerates to stop in one second while the machine will be pulling out the water, in case of personal injury.
- ✧ Stop protection: the machine will stop when the impeller is retarded by goods

2.2 Products parameter

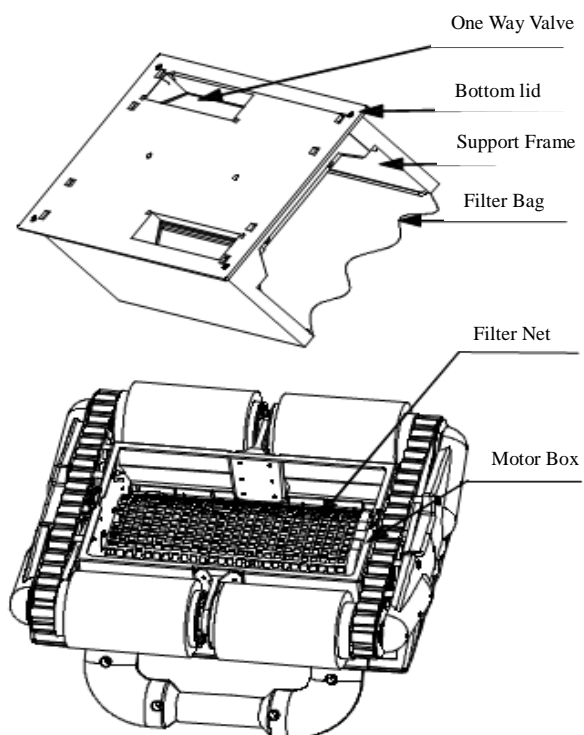
Article	RPC - 1
Input Voltage	100-240VAC, 49.3-60.5Hz
Rated power	200W
Cycle time	0.5h/1h/2h
Floating cable length	15m (591inch)
Suggested pool size	100-200 m ² (1.0-2.0acre)
Filtration	Default:70μm, but you can select other accuracy
Suction rate	20m ³ /h (4226 gal/h)
Moving speed	13m/min (512 inch/min)
Height of climb wall	180cm (70inch)
Clean width	23cm (9 inch)
Clean speed	80-120 m ² /h
Waterproof grade	Cleaner: IP68/remote control: IP21/power supply:IP21
Storage temperature	0℃-40℃
Water temperature	10℃-32℃
(L*W*H)	45*49*26cm (18*19*10inch)
Packing size	84*58*35cm (33*23*14inch)
Gross weight	23.6 kg (521 lb)

2.3 Products Structure

➤ Cleaner structure

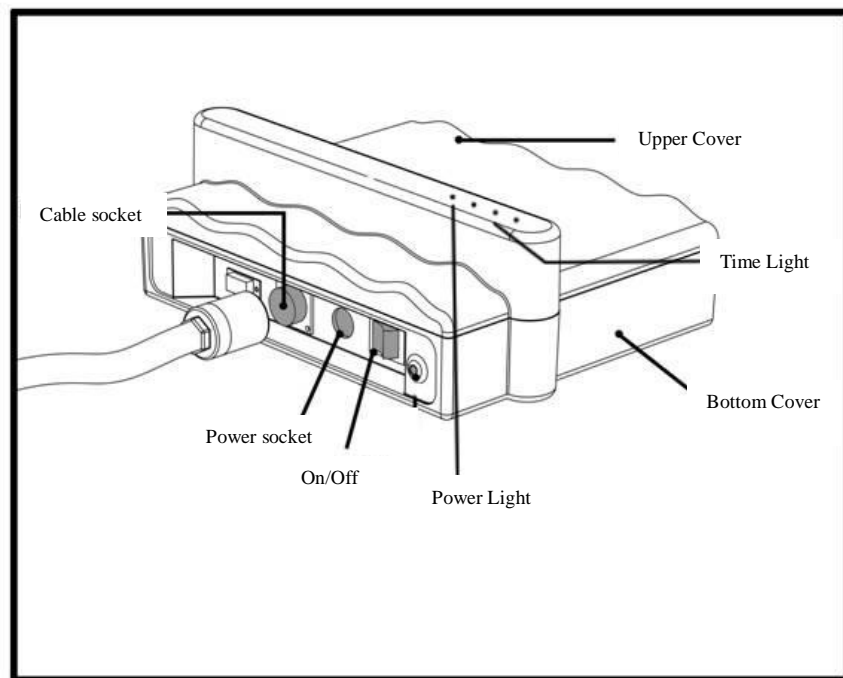


(Pic.2.3.1)



(Pic.2.3.2)

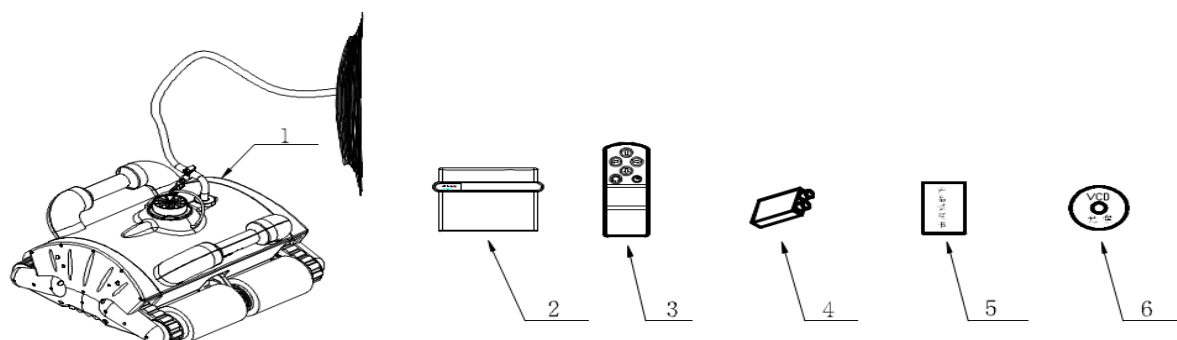
➤ Power Supply Box Structure



(Pic.2.3.3)

3 Packing list

Serial number	Part coding	Part name	Quantity
1	838001	Cleaner with 15m floating cable	1
2	838002	Power Supply Box	1
3	838003	Remote Control	1
4	722001	Battery	1
5	339002	User Manual	1
6	339004	VCD	1



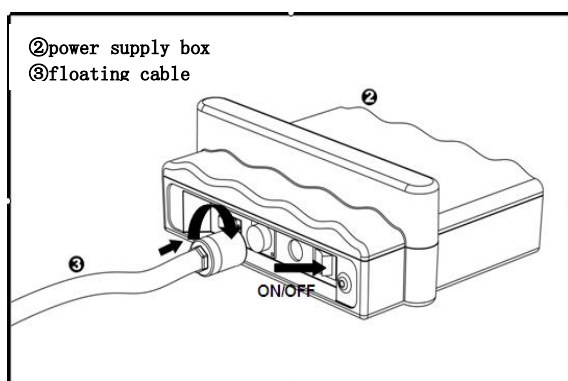
(Pic.3.2.1)

4 Products operation

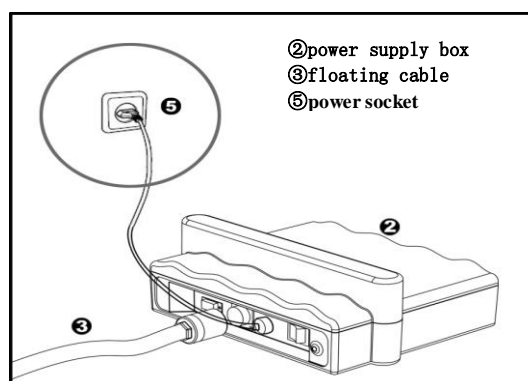
4.1 Power connection

- Please connect floating cable to cable socket of power supply box (see Pic. 4.1.1), then connect power supply box to outside AC power of 110v/220v 50/60Hz (see Pic.4.1.2). Overall connection please refer Pic.4.1.3

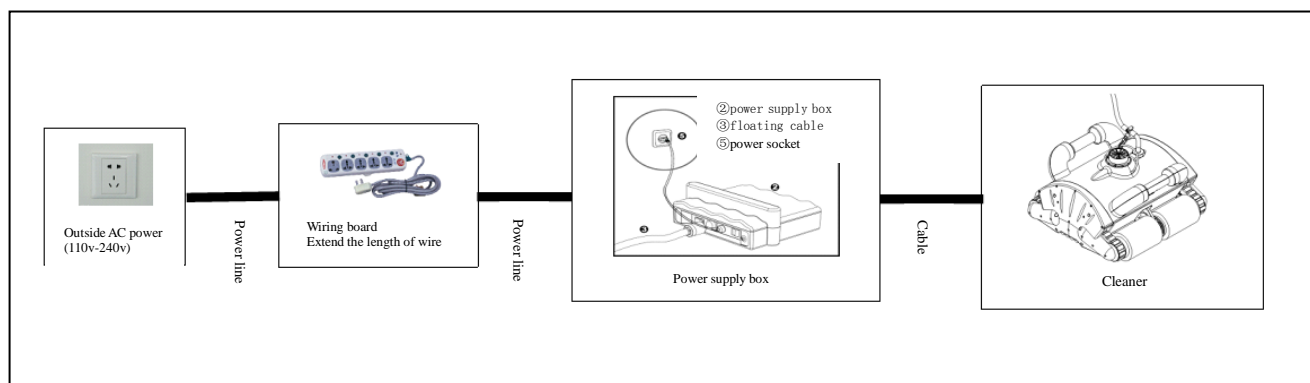
Notices: It is prohibited to water inflow the power supply box. Please put the power supply box in shady, dry & venting place



(Pic.4.1.1)

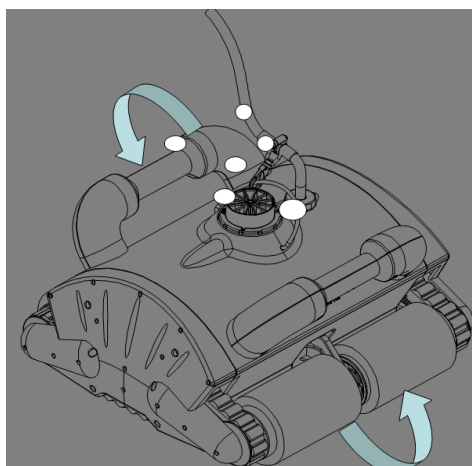


(Pic.4.1.2)



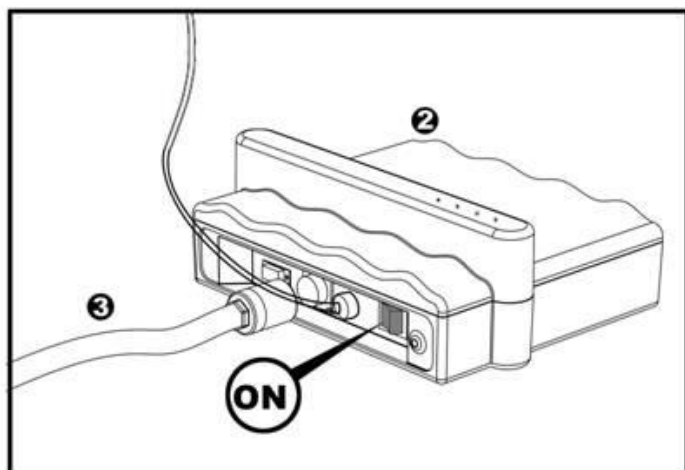
(Pic.4.1.3)

4.2 start the machine



Pic.4.2.1

- (1) **Put the cleaner in the pool:** you must wobble cleaner according Pic.4.2.1 and make sure the air inside released when you put the cleaner in the water, it will auto sink to the bottom of pool

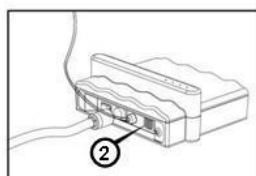


(Pic4.2.2)

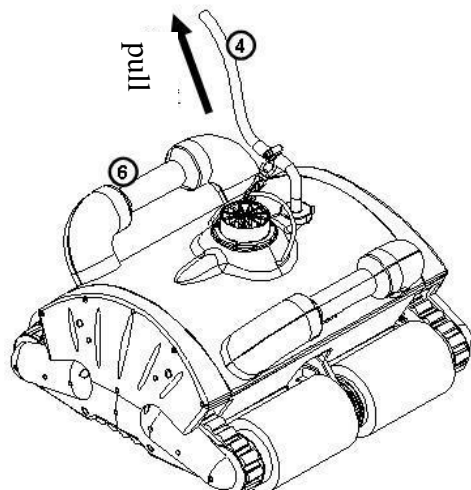
(2) **Start:** Press the 'ON' button, LED indicator of "power" on the power supply box turns on, and "1H" LED indicator of timer (default timer is one hour) will 'on'.(see Pic.4.2.2)

✧ You may select 0.5 hours or 2 hours clean time through handover button "⌚" on remote control and relative LED indicators of timer will 'on'.

4.3 Turn off & clean the machine



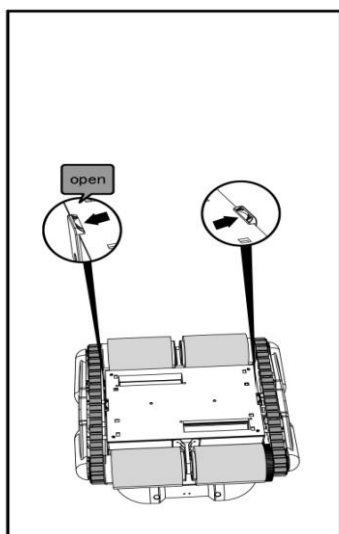
- ②Power button of power supply box
- ④Floating cable
- ⑥Handle



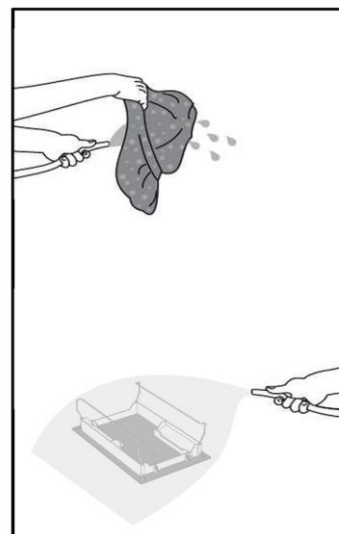
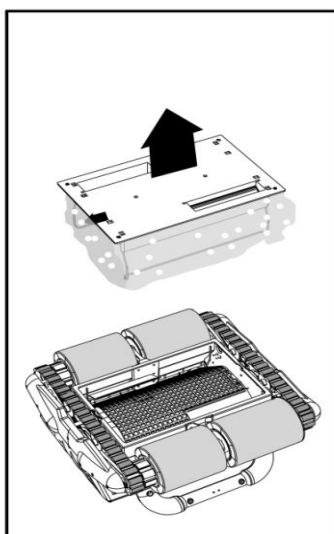
(图 4. 3. 1)

(1) **Shut down the machine:** Turn off the power on the power supply box when the cleaner finishes its working, pull the cable slowly till the handle emerges out of the water (Pic.4.3.1) .then pull the machine out of the pool with its handle.

(2) **Clean the machine:** Invert the cleaner gently onto the floor, unlock the latch on the bottom lid (Pic4.3.2) and take out the filter bag from base plate, clean the filter bag (Pic.4.3.3), replace the filter bag and re-assemble bottom lid and put it back to the cleaner after the filter bag is dry

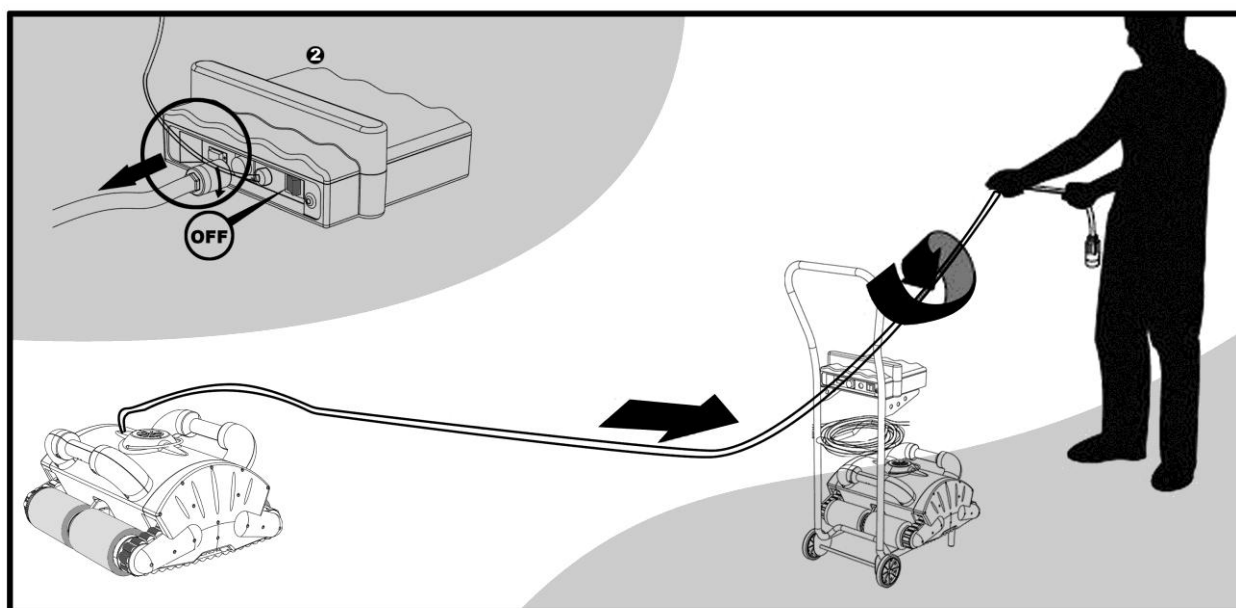


(Pic4.3.2)



(Pic.4.3.3)

(3) Machine storage: When the cleaner gets dry, reel the cable in hand-over-hand and put them on the machine, then put the machine in dry place. If you select carry cart, please put the machine & cable to the carry cart, detail please refer Pic.4.3.4



(Pic.4.3.4)

4.4 Remote control operation




The remote control includes:

On/Off power button
LED light indicator
Direction button
Timer button
Repeat clean button

On/Off power button:

Turn on **or** turn off the machine

Direction button:

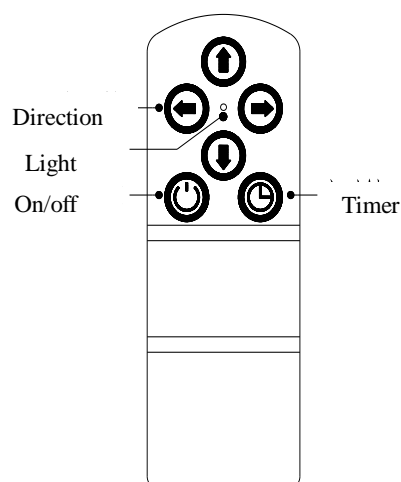
Controls the cleaner's movement backward , left rotation  and right rotation 

Timer button:

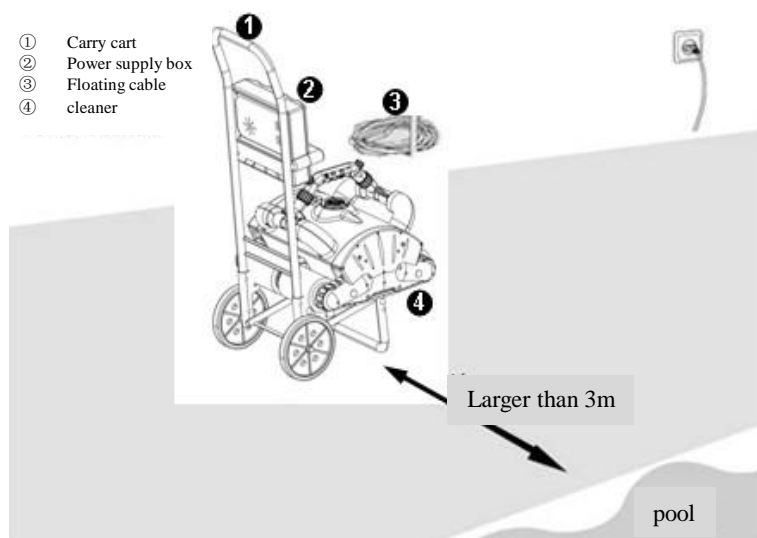
Select the work mode from 0.5hour, 1 hour and 2hour
Recommend: please select 0.5h if pool size is less than 50m²
please select 1h if the pool size is 50-100 m², please select 2h if the pool size is larger than 100 m²

Repeat button :

Repeat clean one area what you want

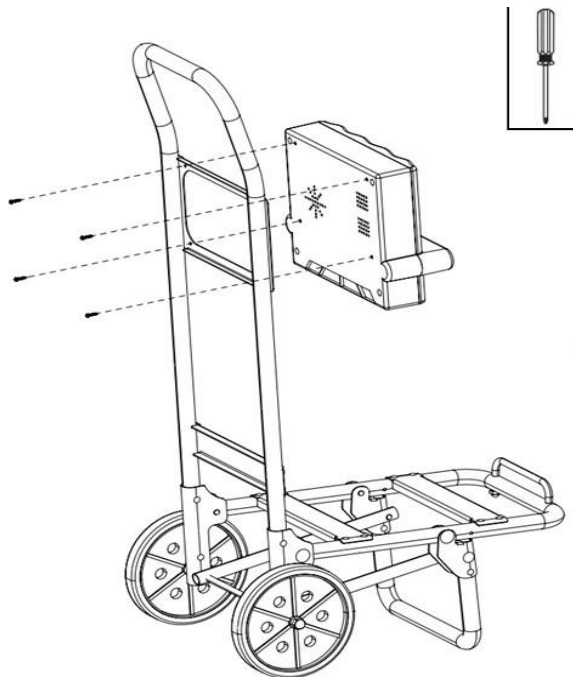


4.5 carry cart operation (option)



(Pic.4.5.1)

- ◆ put the cleaner and the floating cable on the carry cart, move the carry cart to the place that it is nearby the pool and distance with pool is not less than 3M (10ft) (Pic.4.5.1) and make sure the cleaner can reach all the walls of your pool. Do not leave the cleaner in the sunshine or raining weather.
- ✧ It is not advisable to place the carry cart near water sprinkle taps in case any water spray to the power supply box and causes it to working incorrectly.



(Pic.4.5.2)

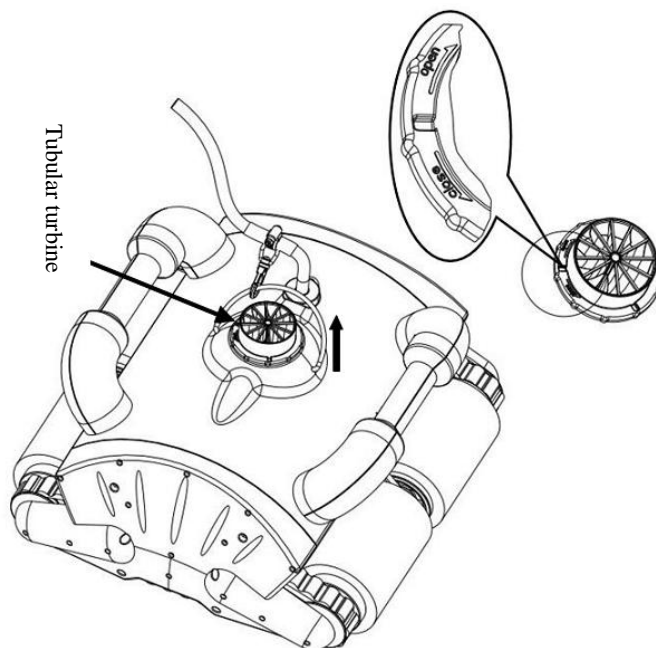
Power supply box installation

- use a cross screwdriver, fasten the power supply box on the carry cart with four bolts (Pic.4.5.2)

5 Replacing Components

5.1 Replace impeller

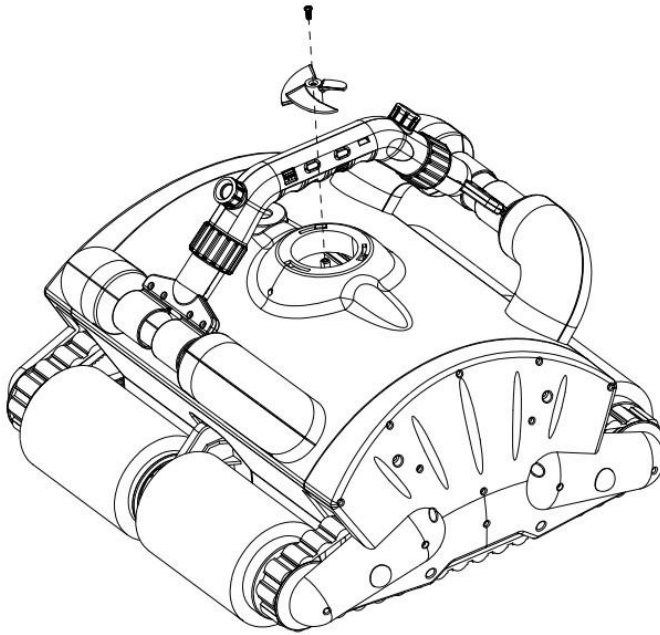
- Change a new impeller when the old one gets worn or damage



(Pic.5.1.1)

Step 1:

- Rotate tubular turbine according “open” direction and take out the tubular turbine with vertical direction (Pic.4.5.2)



(Pic.5.1.2)

Step 2

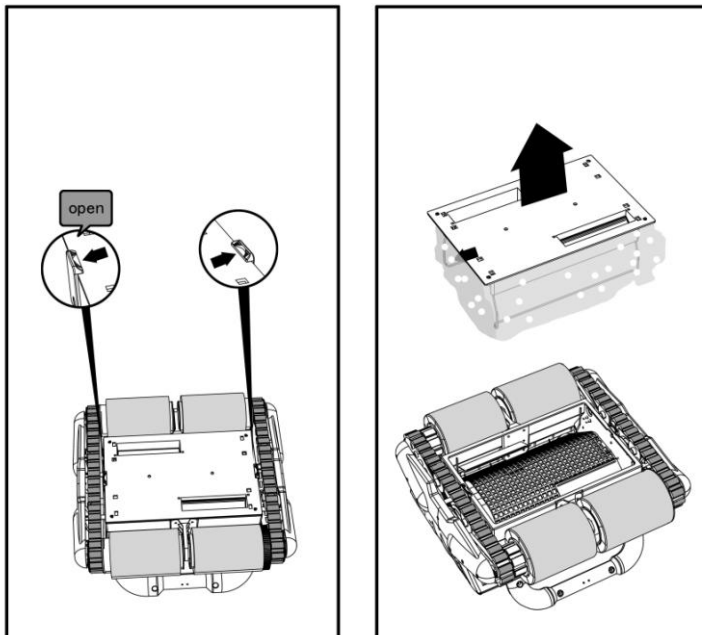
- Use cross driver to loosen the bolt fixed the impeller and take out the impeller according the diagram direction (Pic.5.1.2)

Step 3

- Replace a new impeller and assembling impeller & the tubular turbine

5.2 Replacing Synchronous belt

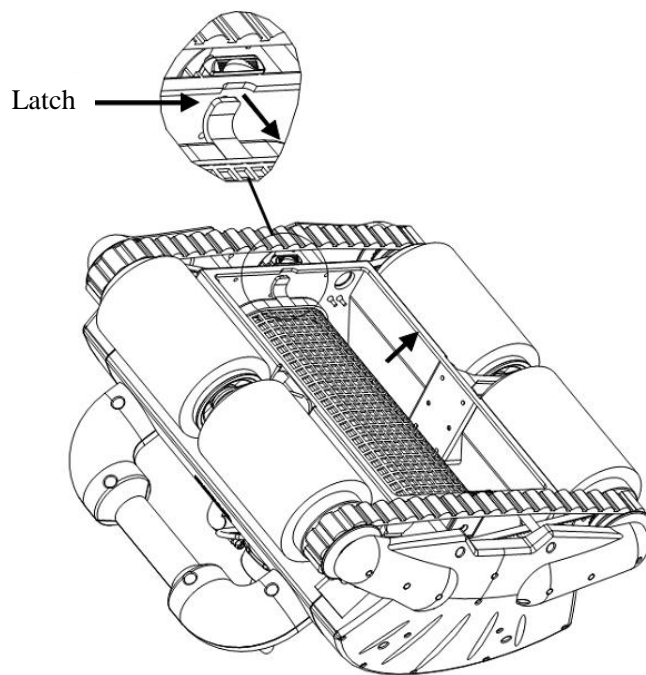
- The synchronous belt needs replacement if badly worn or broken



(Pic.5.2.1)

Step 1

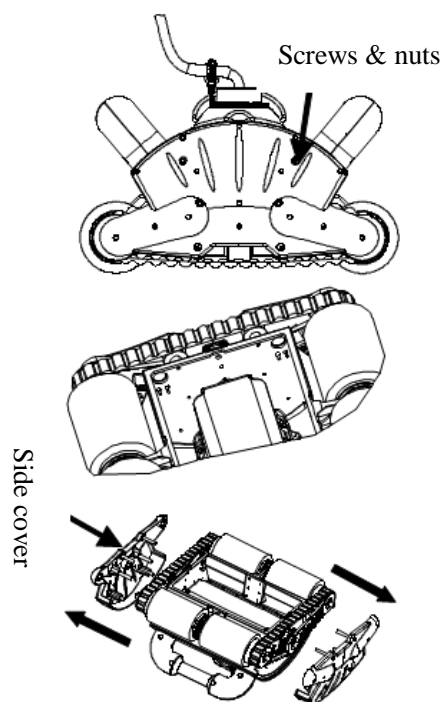
- Invert the machine on the floor, remove the filter box after unlock the latch on the filter box (Pic.5.2.1)



(Pic.5.2.2)

Step 2

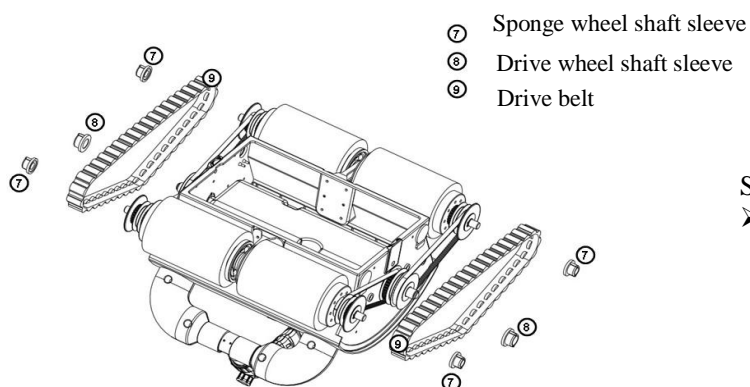
- Remove filter net from the machine while push out the latch according diagram direction .(Pic.5.2.2)



(图 5.2.3)

Step 3

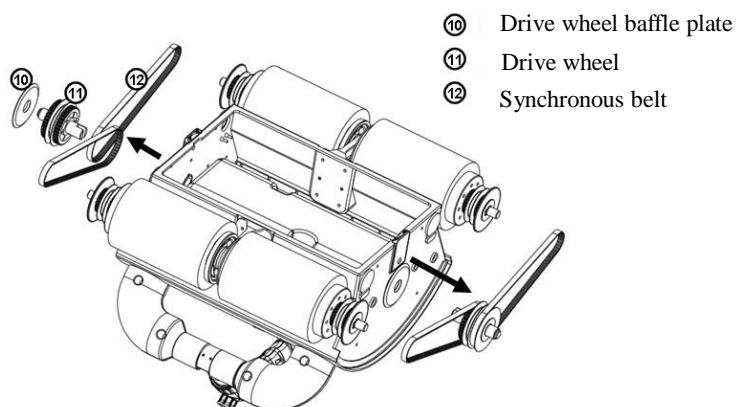
- Use cross screw driver and sleeve to take off six bolts and nuts on the side cover. Then remove the side cover (Refer Pic.2.2.3)



(Pic.5.2.4)

Step 4

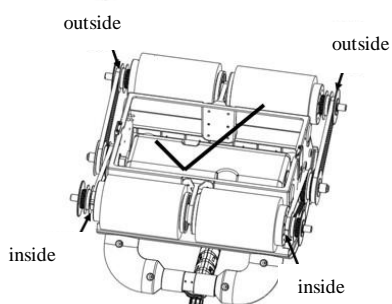
- Remove the sponge wheel shaft sleeve, drive wheel shaft sleeve and take off the drive belt. (Pic.5.2.4)



(Pic.2.2.5)

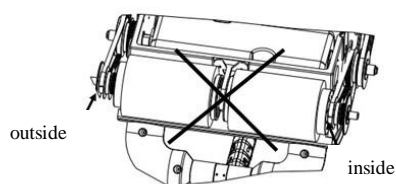
Step 5

- Remove the drive wheel and drive wheel baffle plate, remove the synchronous belt (Pic.5.2.5)



Step 6

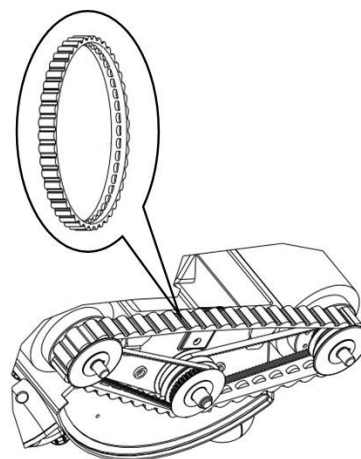
- Put the new synchronous belt to the drive wheel & roller wheel (Pic.5.2.6) to assemble the synchronous belt.



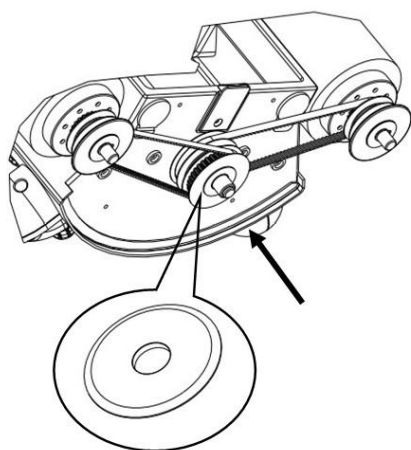
(Pic.5.2.6)

Step 7

- Assemble the drive belt on the roller wheel (Pic.5.2.7)



(Pic.5.2.7)

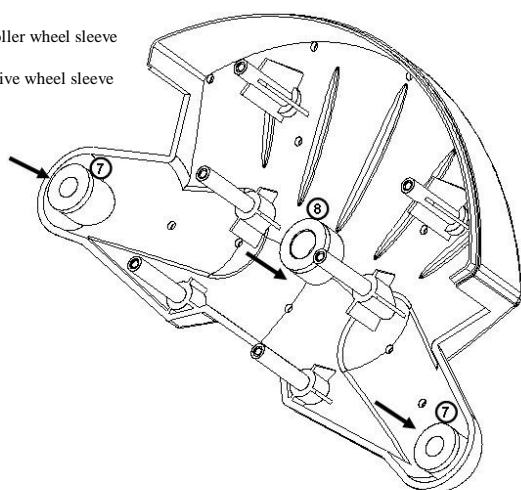


(Pic.5.2.8)

Step 8

- Assemble drive wheel baffle plate to the drive wheel (Pic.5.2.8)

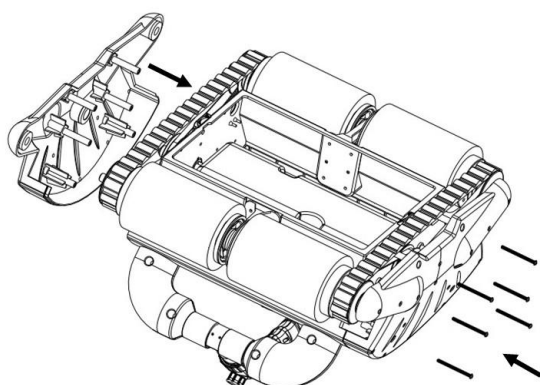
- ⑦ Roller wheel sleeve
- ⑧ Drive wheel sleeve



(Pic.5.2.9)

Step 9

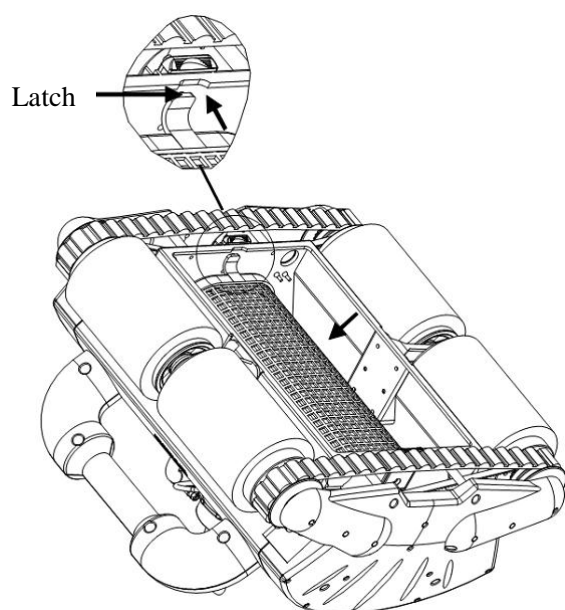
- Put the drive wheel sleeve and roller wheel sleeve to side covers. (Pic.2.2.9)



(Pic.5.2.10)

Step 10

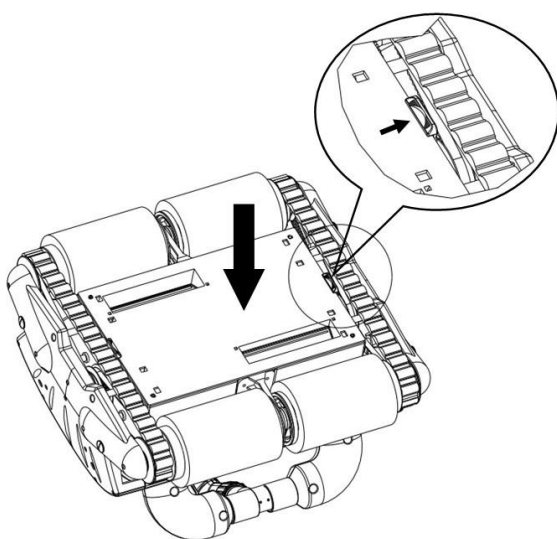
- Put the side covers to main body and fasten it with bolts & nuts. (Pic.5.2.10)



(Pic.5.2.11)

Step 11

- Put the filter net into the cleaner, press the filter until the latch lock into the bracket (Pic.5.2.11)



(Pic.5.2.12)

Step 12

- Put the filter box into the cleaner, press the bottom lid till the lips of bottom lid locks. (Pic.5.2.12)

✧ complete the replacement of synchronous belt

5.3 replace filter bag

If the filter bag appears the status shown as Pic.5.3.1 while you take out the filter bag, it means the dirty in filter bag is full. When the dirty in filter bag is full or filter bag damage, please refer chapter 4.3.2 to replace filter bag.



Pic.5.3.1 filter bag is full

6 Trouble shooting

common fault	Reason	solution	Remark
Machine doesn't work	The socket is off power	Replace socket	Please turn off the power when you maintenance the machine
	Connection is wrong	Check connection	
Weaken pumping	impeller dirty	clean the impeller	
	Impeller damage	Replace impeller	
	filter bag is full of dirt	clean the filter bag	
Machine is offset to one side when moving	synchronous belt is loosen or broken at one side	replace synchronous belt	
	The dirty of filter bag has too much	Clean filter bag	
Machine cannot climb wall	filter bag is full of dirt	clean the filter bag	
	synchronous belt is loosen or broken	replace synchronous belt	
	Sponge wheel wear	Replace Sponge	
	axis sleeves wear	replace axis sleeves	
Machine cannot sink to the bottom of pool	The sponge wheel don't soak enough	you must hold cleaner in water and make sure sponge wheel soak enough, normal the time is about 5 minutes	
	It has air inside the machine	Wobble the machine and make sure air released	
Leak the dirty on Pumping hole	Belt of filter bag is loosen or broken	Replace filter bag	

7 Maintenance & Storage

- ✧ Please shut down the machine according chapter 4.3 while you finish to clean your pool
- ✧ Please disassemble the impeller & tubular turbine according chapter 5.1 if you clean the impeller & tubular turbine, and make sure they are clean
- ✧ If you don't use the machine during a long term, make sure the machine & power supply box in ' power off ' state and store it in a dry, shady & venting location at temperature between 0-40 ℃.
- ✧ If you want to reuse the machine when the stored time is more than one month, please check machine has visual crack & rust or not in advance, then try to run the machine. Only you make sure the machine is ok, thus you can leave and let the machine automatic run.
- ✧ Filter bag, impeller & synchronous belt is wearing parts, the warranty period is one year except wearing parts. If you want to purchase the wearing parts, please contact location dealer
- ✧ If usage time is over one year and the machine is down, you have to pay the maintenance fee (include material fee & labor fee)
- ✧ If you want to repair the machine, please contact serve@ichroboter.com ,you also can contact location dealer.