# Automatic floor cleaning machine

# User Manual



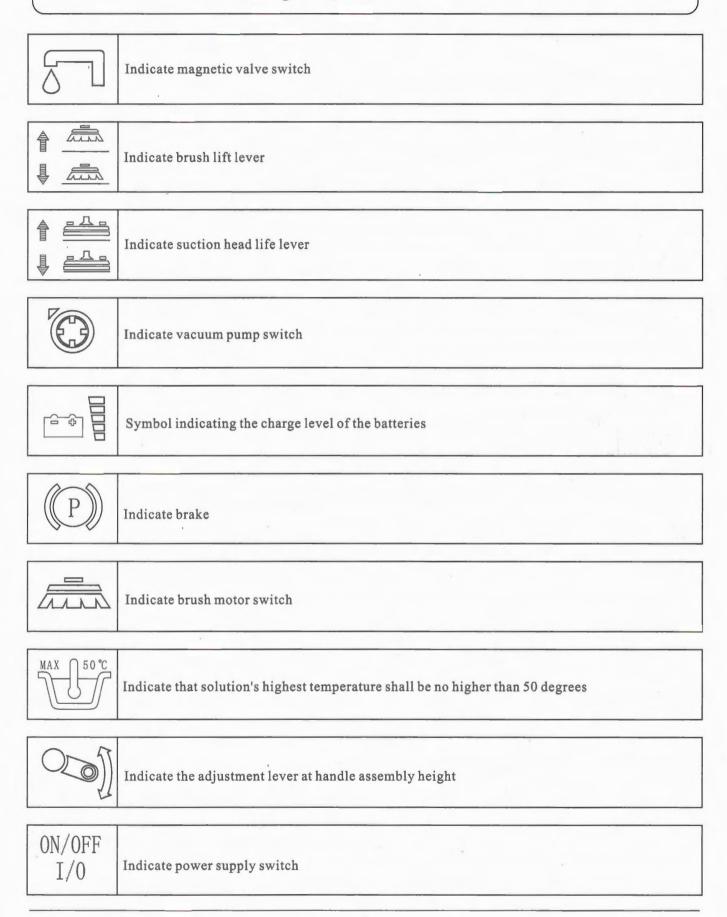
## CONTENTS

Instructions for safe use	3
Meaning of the label on the machine	4
Pre-use preparation	6
Operation	12
Steps for ending the work	13
Views	15

#### Instructions for safe use

- 1. Read user manual carefully before use.
- 2. Ensure that no label falls off.
- 3. Don't use machine under the inflammable goods and gases circumstance.
- 4. Don't use acid solution in case it may damage the machine.
- 5. Control cleaning speed of the machine according to the floor types and cleanliness.
- 6. Don't place the machine on slopes.
- 7. Power supply shall be cut off when the machine is maintained.
- 8. Keep electrical equipments dry. Don't use water gun or high pressure water to directly wash the machine. Machine shall be placed in a dry and indoor environment.
- 9. Lead acid batteries generate gases that can cause an explosion. Keep the sparks and flames away from batteries. Charge the batteries only in an area with good ventilation.
- 10. When the machine is parked, take out the key and set the brake.
- 11. Don't use the charger if the power cord is damaged.
- 12. Don't touch the rotating components on the machine during its operation.
- 13. Don't use the machine before it is fully assembled.

## Meaning of the label on the machine



## Meaning of the label on the machine



Indicate brush-off switch



Indicate machine fixed position



Indicate suggestions for machine operators to read user manual



Indicate warnings and asking operators to read relevant safe use provisions carefully

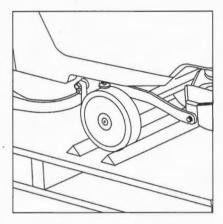


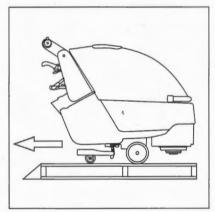
Indicate drain pipes of sewage tank

## Power supply connection and instructions of machine

- 1. Unwrap machine package
- 1. Remove external carton box
- 2. Wood wedge and iron hook are used to fix the machine on the base. They must be removed before operating the machine

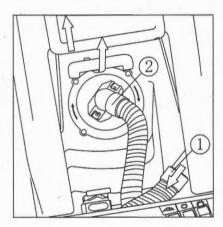
Put up the slope and pull the machine out from the base.

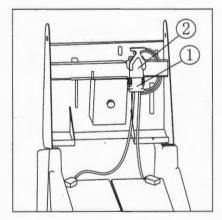




#### 2. BATTERY INSTALLATION

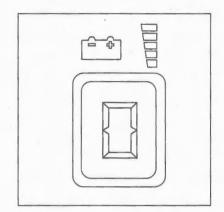
- 1. The two 12V 135AH batteries fit in the compartment under the recovery tank.
- 2. Detach the squeegee hose (1) from the recovery tank.
- 3. Take off vacuum cover (2) by rotating it counterclockwise.
- 4. Take the recovery tank off and put the batteries in the compartment.
- 5. Connect the batteries' connector (2) to the machine's connector (1).





#### 3. CHARGE BATTERIES

NEVER ALLOW THE BATTERIES TO RUN COMPLETELY DOWN, Recharge them within a few minutes after the battery indicator starts blinking. Never leave the batteries completely discharged, even if the machine is not being used.

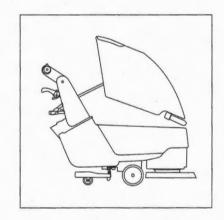




WARNING! When charging the batteries, follow all the instructions provided with the manual and battery charger.

WARNING! Lead acid batteries generate gases that can cause an explosion. Keep sparks and flames away from batteries. NO SMOKING!

WARNING! To prevent an explosion, charge the batteries good ventilation.



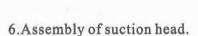
4. When charging the batteries, take the recovery tank off, keep it lifted by supporting it with the prop as shown in figure.

Turn the key to the OFF position.

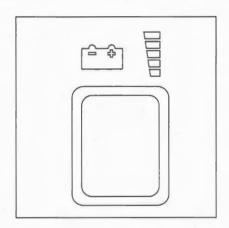
Make sure the receptacle charger is connected to the electrical ground.

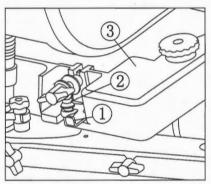
#### 5. BATTERY INDICATOR

The battery indicator is a red light, it is constantly on The batteries are sufficiently charged. The signal light all blink when it is necessary to recharge the batteries.



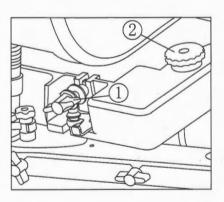
It is shown as the assembly suction head in the drawing. Lift the handle of suction head and push the connector.(1), let the pin pass through the holes on the support. Then loosen the connector and let it get stuck in the slot of the pin. Afterward, connect suction head and hose. Hose shall be placed on the right to the lifting steel wire rope of the suction head.





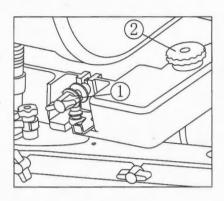
#### 7. Adjustment of Suction Head's Height

Height of the suction head shall be adjusted according to the wear of the rubber strip. Rotate the hand wheel anticlockwise (1), the suction head will be lifted, otherwise it will drop. During adjustment, two hand wheels, which situate on both left and right, shall be adjusted simultaneously, so as to make sure that suction head will be in parallel with floor.



#### 8. Adjustment of inclination of suction head

Ring operation the rear squeegee blade is most efficient when tilted back about 5 minimeters along its whole length increase the blade bending in the central part, tilt The squeegee body backward by turning the adjuster (1) tunter-clockwise. Subsequently, turn the adjuster (1) clockwise to increase the bending at the sides of squeegee blade.

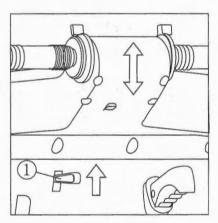


# 5

#### 9. Adjustment of Handle's Height

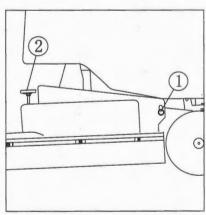
The handle has three adjustable positions.

Lift the lever (1), turn the handle into a proper position and then loosen the lever to lock the handle.



#### 10. Installation of Anti-splashing Cover

Install the anti-splashing cover and locknut (1) according to the instructions. Height of the anti-splashing cover will be adjusted by the knob (2).

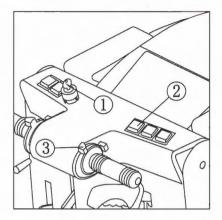


#### 11. Installation of the Brush

Take brush control lever, place the brush under its base and align it to the large belt pulley. Lay down brush base, rotate power supple switch (1), connect power supply, press brush switch (2), and push the lever (3). Finally the brush will be installed on the machine after the motor is rotated.

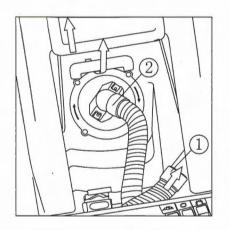


Warning! In installing the brush, please don't place any articles or stand beside the brush.



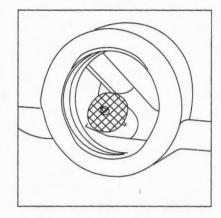
#### 12. Sewage Tank Inspection

- 1. Directly align the slot and rotate clockwise the cap to shut it down. Ensure that vacuum motor hose and suction head hose are connected properly.
- 2. Ensure that drain plug of the water hose in front of the sewage tank has been closed and screwed tightly.



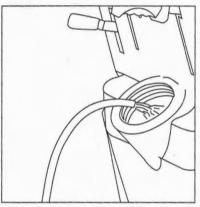
#### 13. Solution Tank Inspection

Unscrew water filling nozzle cap and ensure that the filter located in the left bottom is properly installed.



#### 14. Solution

Add clean water with temperature not higher than 50°C/122°F into the solution tank. Excessive amount of froth will be generated, which damage the vacuum motor, if too much detergent is added into the sewage tank. Therefore, if it is necessary to add detergent, one must add as few as possible.

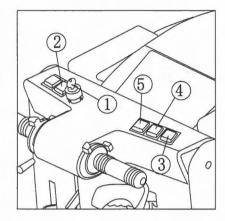


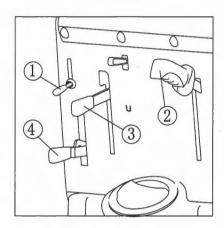


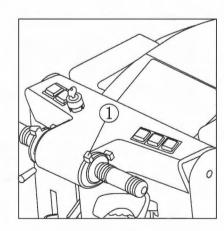
WARNING! Always use low foaming detEgrent. Adding antifoam liquid into the recovery tank before clearing will also help prevent foaming. NEVER USE PURE ACID

## **Operation**

- 1. Connect power supply switch (1). Red signal lamp (2) will be lit up.
- 2. Press magnetic valve switch (3)
- 3. Press vacuum motor switch (4)
- 4. Press brush motor switch (5)
- 5. Adjust lever (1) and the flow of water. Water can moisturize ground evenly, but the flow of water shall not be too strong in case water may splash to anti-splash cover. The flow of water depends on types and cleanliness of floor and the cleaning speed of the machine.
- 6. Lay down the lever (2) and brush to the ground.
- 7. Lay down suction head lever (3).
- 8. Check whether brake handle has already loosened (4).
- 9. Push lever forward (1).Brush starts to work and the machine begins to clean the floor.

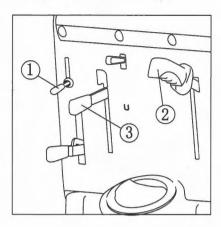




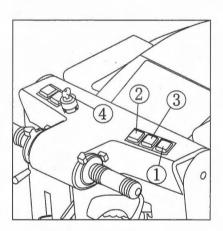


## Steps for ending the work

- 1. Prior to maintaining the machine, please follow the operational steps.
- 1. Press the lever (1) and turn off water valve
- 2. Lift the lever (2) and brush
- 2. Lift the lever (3) and suction head. If the lever is not lifted when the machine is being transported or stored, the rubber strip on the suction head will be damaged

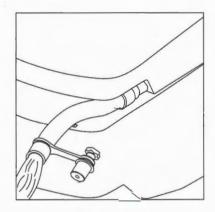


- 3. Turn off magnetic switch (1)
- 4. Turn off brush switch (2)
- 5. Turn off vacuum switch (3)
- 6. Turn off power supply switch (4)
- 7. Move the machine to the sewage discharge point and then brake.



## Procedures for ending the work

- 8. Loosen the knob to discharge sewage
- 9. Wash the sewage tank, buoy and filter with clean water



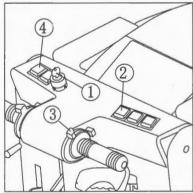
#### 10. Clean suction head

#### 11. Dismantle brush

The machine has the automatic device for dismantling brush

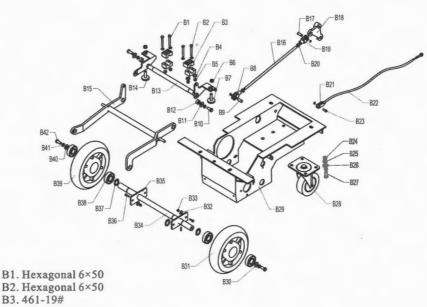
- 1. Lift brush lever (1) and then brake (2).
- 2. Turn on power supply switch (1), connect brush switch (2), connect brush releasing switch (4), move the lever forward (3), loosen the lever afterward and then the brush will fall off automatically.





## A1.461 Top cover A2. Code printer A3. U-shaped iron(Short) A4. CB461-05 A5. Bent connector A6. CB461-05 A7. CB461 Middle washer A8. CB461 Small washer A9. CB461 Floating ball expanded rod A10. CB-461-02 A11. X-217# A12. Floating ball box A13. Plastic handle A14. CB461 CB461Sewage tank A15. U-shaped iron(Long) A16. Installation ring of floating ball A17. Spring clip A18.8 Grey rubber ring A19. X-10 Sponge A20. X-10 Sponge A21. CB-461-01 A22. CB461 Large rubber part A23. Motor A24. Supporting iron of water tank A25, CB461-15 A26. CB461 Clear water tank A27. X-6 Sponge A28. 12V Battery

#### HT-461 Views II



B3. 461-19#

B4. Ø6×12×1 Washer

B5. Tapping nut, M6

B6. Nut M8

B7. 8×30 Screw head

B8. 16×16×42 Square fork

B9. Bolt Ø8×20

B10. Hexagonal 8×25

B11. Washer 8×25×1.5

B12. 16×8×8 Copper washer

B13. Shaft

B14. 8×30 Screw head

B15. 461 brush lifting bracket

B16. Wire 8×53

B17. Ø8×20 Bolt

B18. 461 triangle shaft

B19. 16×16×58 Square fork

B20. Nut M8

B21. 12×12×42 Square fork

B22. 461 Lifting for wire drawing

B23. Bolt Ø6×16

B24. Tapping nut, M8

B25. 8 Spring pad

B26. washer 8×16

B27. Hexagonal 8×30

B28. 4-inch foot wheel

B29. 461 Frame

B30. washer 8×25×1.5

B31, 180 wheel

B32. washer 6×16×1

B33. Tapping nut, M6

B34. Wheel shaft

B35. 461 fixed plate of shank

B36. Hexagonal 6×20

B37. 19 Clamp spring

B38. Bearing 6204

B39, 180 Wheel

B40. washer

B41.8 Spring washer

B42. Hexagonal 8×20

C1. Switch

C2. Master switch of key head C19. 461 Straight iron

C3. Rubber cover of the handle C20. Micro switch

C4, 461-24#

C5. 461-08-5# right

C6. Handle tube

C7. 461-08-5# Left

C8. 461-21#

C9. 461-08-1#

C10.461-08-6#

C11. 461-08-3#

C12.461-08-2#

C13. 461 handle top cover

C14. Fuse

C15. DC circuit board

C16. PG9

C17. 461 Handle bottom cover

C18. Ø20 Wire shield

C21. 461-14#

C22. 461 Adjustment handle

C23. 7-shaped shaft

C24. Tapping nut, M4

C25.461-09#

C26. 461 Lifting handle of water suction head

C27. hexagonal 4×30

C28. 461-09#

C29. Lifting handle for the brush

C30. 10 ×10 ×40 Square fork

C31. Ø5×14 Screw

C32. Terminal box

C33. 12×12×42 Square fork

C34. hexagonal 6×30

C35. 461 Bracket holder of the handle

D1.24VMotor

D2. Driving belt pulley

D3. Washer Ø6×20

D4. Washer6×16×1

D5. hexagonal 8×20

D6. Iron bracket

D7. hexagonal 8×25

D8. 16×8×8 Copper washer

D9. hexagonal 8×40

D10. 12×60 Adjustment screw

D11. Shaft

D12. 461 Fixed bracket of the brush

D13, hexagonal 8×25

D14. 461 Fixed bracket of the motor

D15. KCM8×55

D16. Tapping nut, M8

D17. 461 Belt adjustment iron

D18. Ø8×20×35 Shaft

D19. Ring Ø15×31.5×1

D20. Bearing 6002

D21. Tapping nut, M8

D22. hexagonal 6×20

D23. Washer

D24. Nut

D25. Nut M24

D26. Axle sheath24.5×4.5×13

D27. Pulley 461

D28. Belt

D29. Axle sheath30×21

D30. Bearing B205

D31. 461 Center shaft

D32. Tapping nut, M8

D33. Washer

D34. Plastic washer

D35, hexagonal 6×110

D36. hexagonal 6×60

D37. Washer6×22

D38. Axle sheath6×12×40

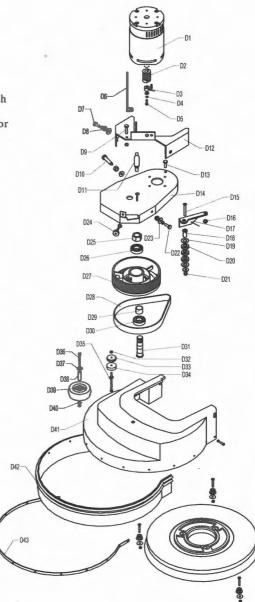
D39. TTPR1 wheel

D40. Tapping nut,

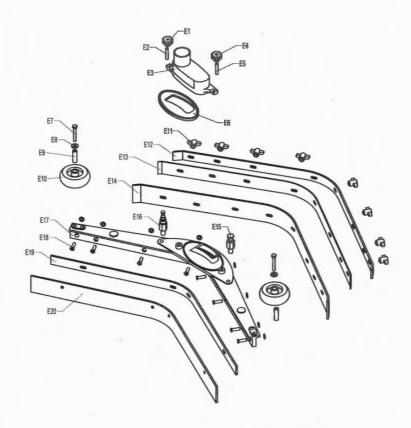
D41. Brush cover

D42. 17# Grey anti-collision ring

D43. 461 Anti-collision sheet



## HT-461 Views VI



E1. CB461-14

17

E2. Stainless steel screw6×40

E3. CB461-06A

E4. CB461-14

E5. Stainless steel screw6×40

E6. Connection washer

E7. Hex 6×40

E8. Washer6×22×1.5

E9. Axle sheath 10×31

E10.3×1TPP Wheel

E11. M6 Manually tighten M6 nut

E12. Briquetted iron of water suction head(long)

E13. Ultra-16# orange crash bar

E14. Wiper rubber

E15. Water Head lever

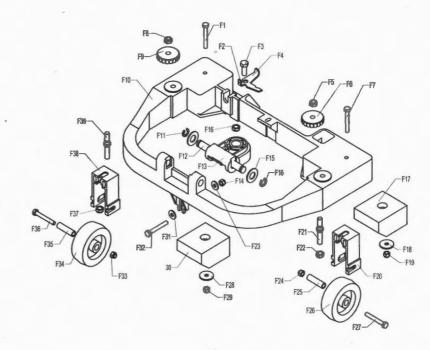
E16. Water Head lever

E17. Main body of the water suction head

E18. KCM6×20

E19. Ultra-15 # orange crash bar

E20. CB461 water Pa iron plates (S)



F1. hexagonal 6×25

F2. Spring

F3. Hexagonal screw

F4. 461 Fixed iron of the suction head

F5. Nut

F6. 461-20#

F7. Hexagonal screw

F8. Nut M8

F9.461-02#

F10. 461 Bracket of the suction head

F11. Clamp spring

F12. 461 Parallel square shaft412×10.5

F13. 461 Parallel wheel cap

F14. Tapping nut, M6

F15. Washer

F16. Clamp spring

F17. Small cast iron

F18. Washer

F19. Nut

F20. 461 Parallel wheel rack

F21. 12×54×M8 Screw

F22. Nut

F23. Washer6×16×1

F24. Nut

F25. Axle sheath 10×37

F26. Grav rubber tire3×1

F27. hexagonal 6×50

F28. Washer

F29. Tapping nut, M6

F30. Small cast iron

F31. Washer6×16×1

F32. hexagonal screw

F33. Tapping nut, M6

F34. Gray rubber tire3×1

F35. Axle sheath 10×37

F36. 6×50 hexagonal 6×50

F37. Nut M8

F38. 461 Parallel wheel rack

F39. 12×54×M8 Screw