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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

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
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<tbody>
<tr>
<td><img src="image" alt="Magnetic Valve Switch" /></td>
<td>Indicate magnetic valve switch</td>
</tr>
<tr>
<td><img src="image" alt="Brush Lift Lever" /></td>
<td>Indicate brush lift lever</td>
</tr>
<tr>
<td><img src="image" alt="Suction Head Lift Lever" /></td>
<td>Indicate suction head lift lever</td>
</tr>
<tr>
<td><img src="image" alt="Vacuum Pump Switch" /></td>
<td>Indicate vacuum pump switch</td>
</tr>
<tr>
<td><img src="image" alt="Battery Charge Level" /></td>
<td>Symbol indicating the charge level of the batteries</td>
</tr>
<tr>
<td><img src="image" alt="Brake" /></td>
<td>Indicate brake</td>
</tr>
<tr>
<td><img src="image" alt="Brush Motor Switch" /></td>
<td>Indicate brush motor switch</td>
</tr>
<tr>
<td><img src="image" alt="Solution Temperature" /></td>
<td>Indicate that solution's highest temperature shall be no higher than 50 degrees</td>
</tr>
<tr>
<td><img src="image" alt="Adjustment Lever" /></td>
<td>Indicate the adjustment lever at handle assembly height</td>
</tr>
<tr>
<td><img src="image" alt="Power Supply Switch" /></td>
<td>Indicate power supply switch</td>
</tr>
</tbody>
</table>
### Meaning of the label on the machine

<table>
<thead>
<tr>
<th>![Icon]</th>
<th>Indicate brush-off switch</th>
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<tr>
<td>![Icon]</td>
<td>Indicate machine fixed position</td>
</tr>
<tr>
<td>![Icon]</td>
<td>Indicate suggestions for machine operators to read user manual</td>
</tr>
<tr>
<td>![Icon]</td>
<td>Indicate warnings and asking operators to read relevant safe use provisions carefully</td>
</tr>
<tr>
<td>![Icon]</td>
<td>Indicate drain pipes of sewage tank</td>
</tr>
</tbody>
</table>
Power supply connection and instructions of machine

1. Unwrap machine package
2. Remove external carton box
3. Wood wedge and iron hook are used to fix the machine on the base. They must be removed before operating the machine.
4. 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.

6. Assembly of suction head.

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

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 supply 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 detergent. Adding antifoam liquid into the recovery tank before clearing will also help prevent foaming. NEVER USE PURE ACID
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.
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. CB46-05
A5. Bent connector
A6. CB46-05
A7. CB46 Middle washer
A8. CB46 Small washer
A9. CB46 Floating ball expanded rod
A10. CR-461-02
A11. X-217#
A12. Floating ball box
A13. Plastic handle
A14. CB461 CB461 Sewage 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

B1. Hexagonal 6×50
B2. Hexagonal 6×50
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. 16×14×58 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 8×50
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
**HT-461 Views V**

- E1. CB461-14
- E2. Stainless steel screw 6×40
- E3. CB461-06A
- E4. CB461-14
- E5. Stainless steel screw 6×40
- E6. Connection washer
- E7. Hex 6×40
- E8. Washer 6×22×1.5
- 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-168 orange crash bar
- E14. Wiper rubber
- E15. Water Head lever

**HT-461 Views VI**

- 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 shaft 412×10.5
- F13. 461 Parallel wheel tap
- 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. Washer 6×16×1
- F24. Nut
- F25. Axle sheath 10×37
- F26. Gray rubber tire 3×1
- F27. Hexagonal 6×50
- F28. Washer
- F29. Tapping nut, M6
- F30. Small cast iron
- F31. Washer 6×16×1
- F32. Hexagonal screw
- F33. Tapping nut, M6
- F34. Gray rubber tire 3×1
- F35. Axle sheath 10×37
- F36. 6×50 Hexagonal 6×50
- F37. Nut M8
- F38. 461 Parallel wheel rack
- F39. 12×54×M8 Screw