



Aina
EQUIPMENT SUPPLY

Operator's Manual

RD660 AUTOMATIC FLOOR SCRUBBER



- **Please read this Operator's Manual carefully and make sure fully understand before using the appliance.**
- **Please keep this Manual for future reference.**

User Manual

READ THIS MANUAL

This operation's manual contains important information for the use and safe operation of this machine. Read this manual carefully before operating the machine. Keep this book and tell all operators to read the book. If you do not follow the instructions, you can cause injury or damage equipment furniture or buildings.

For new manual, please contact your local distributor or write to:

Aina Equipment Supply
1260L Rankin Dr. Troy, MI 48083

Carefully inspect all components to ensure that there is no concealed freight damage. If such damage is discovered, file a "CONCEALED DAMAGE REPORT" immediately with the delivering carrier.

The contents of manual are based on the latest product information available at the time of publication. MC reserves the right to make changes or improvements to its machine without notice.

FOR YOUR CONVENIENCE, RECORD THE MACHINE MODEL AND SERIAL NUMBER:

MODEL _____

SERIAL NUMBER _____

PURCHASE DATE _____

User Manual

TABLE OF CONTENTS

Warranty	3
Safety Instructions	3
Machine Set-Up	4
Machine Specification	5
Daily Operation and Maintenance	5
How to Install Batteries	5
How to Charge the Batteries	6
How to Install the Squeegee	6
How to Install Pad Holder and Brush	6
How to Fill the Solution Tank	6
How To Operate The Machine	6
How to Turn the Vacuum Motor On and Off	6
How to Lower/Raise the Brush/Pad	7
How to Lower/Raise the Squeegee	7
How to Set the Solution Flow	7
What to Do When You're Operating The Machine	7
Brush Forward Assisted System	7
Vacuuming Up Solution	8
How to Control Excess Foam in the Recovery Tank	7
How to Empty the Recovery Tank	8
Maintenance	8
Daily	8
Weekly	8
Monthly	8
Troubleshooting	9

User Manual

Warranty

RD660 by **Aina** takes pride in producing high quality, durable products. RD660 by **Aina** product carries a limited one(1) year warranty against defects in workmanship and materials from the date of purchase under normal commercial use. Warranty does not apply to defects due to direct or indirect abuse, negligence, misuse, accidents, repairs or alterations and lack of maintenance. Please keep your receipt as proof of purchase. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state.

Safety Instructions

FOR COMMERCIAL USE

READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE

- Use indoors only. Do not expose to rain.
- Do not allow it to be used as a toy. Use caution when operating near children.
- Use only as described in this manual.
- Use only manufacturer's recommended accessories.
- Charge batteries in a ventilated room. Gases given off during charging could ignite in a confined space. To avoid an explosion, top cover should be open and battery caps installed when charging.
- Disconnect all positive and negative battery terminals before attempting any adjustment or maintenance. Traction drive and vacuum motors and components can cause injury if accidentally started.
- Battery acid can cause injury to the eyes or skin. Wear protective goggles, gloves and clothing BEFORE filling or charging batteries.
- If charger is not working properly, (due to it being dropped, damaged, left outdoors or exposed to water) return it to **Aina** Service Center.
- Do not handle the plug or machine with wet hands.
- Do not put any objects into openings. Keep the openings unblocked
- Keep it away from dust, lint, hair and anything that may reduce air flow.
- Keep hair, loose clothing, fingers and all body parts away from openings and moving parts.

User Manual

- Make sure the main power switch is OFF before removing or installing pads or brushes.
- Never operate the machine if you are tired or under the influence of drugs and/or alcohol.
- Always operate the machine while standing behind it.
- Use care when working on electrical terminals. Short circuits can cause burns.
- Do not store the machine on inclines.

Machine Specification

Automatic Scrubber	RD660
Brush Width	13in*2
Squeegee Width	850mm
Solution Tank	100l
Recovery Tank	100L
Brush Rotation	150rpm
Efficiency	3800m ² /h
Voltage	24V
Vacuum Motor Power	550W
Brush Motor Power	550W
Traction motor Speed	500W 0~5km/h
Weight (without Batteries)	130kg
Length x Width x Height	1400x660x1100mm

User Manual

MACHINE PREPARATION

1. HANDLING THE PACKAGED MACHINE

The machine is contained in specific packaging with a pallet for the handling with fork trucks. The packages cannot be placed on top of each other.

The total weight of the machine and packaging is 135 kg

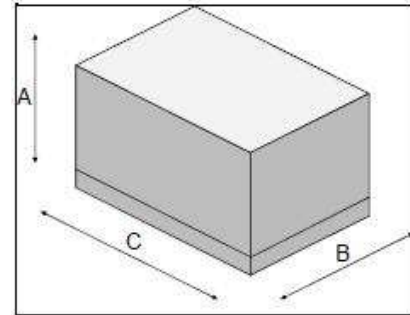
(W/O battery)

The dimensions of the packaging is as follows:

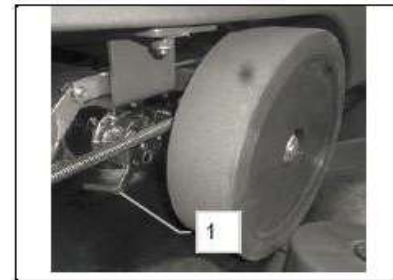
A: 1400 mm

B: 730 mm

C: 1220 mm



1. Remove the outer package
2. The machine is fixed to the pallet with wedges which block the wheels
3. Disengage the electronic brake, turn the lever (1) (on the rear right-hand side of the machine) clockwise
4. Remove the wedges
5. Use a chute to get the machine down from the pallet, pushing it backwards. Do not assemble the rear squeegee before unloading the machine, and avoid violently jolting the brush head. To assemble the squeegee, read the “ASSEMBLING THE SQUEEGEE” paragraph



6. Keep the pallet for any future transport needs



ATTENTION: if the product is delivered in cardboard containers, handle the packed product with suitable lifting means that comply with the legal requirements



WARNING: During this operation, check there are no people or objects near the machine

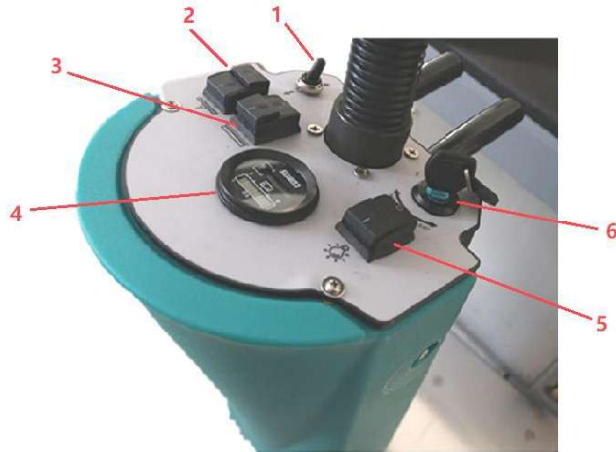
User Manual

2. HOW TO MOVE THE MACHINE

1. Check the solution tank and recovery tank are empty;
2. Check that the brush head and squeegee are lifted up from the ground
3. Place it on a pallet using a chute
4. Check that the key switch is in the OFF position and remove the key
5. Secure the machine to the pallet using wooden wedges
6. Engage the electronic brake

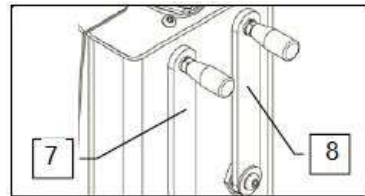
3. CONTROL PANEL

1. Forward and reverse knob
2. Suction motor switch
- 3, Brush motor switch
- 4, Battery power indicator
5. Front light switch
6. Power switch

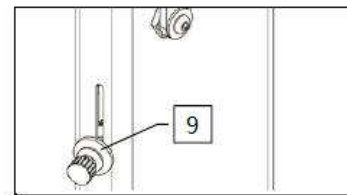


7. Squeegee body lifting lever

8. Brush head body lifting lever



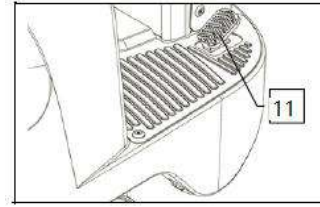
9. Detergent solution adjustment lever



- 10, Horn

User Manual

11. Accelerate pedal



12, battery charger plug

13, water level hose

14, front light

15, filter

16, front wheel

17, water valve

18, traction wheel

19, squeegee assembly

20, suction hose assembly

21, big cap

22, quick water adding whole



23, drain out hose assembly



User Manual

Description of the control systems

- (1) Forward and reverse knob
If you want to move forward, set the knob in Forward position; if you want to move backward, set the knob in reverse position.
Note: If you want to move backward, lift up the squeegee assembly and brush pads.
- (2) Suction motor switch
Low down the 7 squeegee body lifting level, press the switch on, suction motor works;
- (3) Brush motor switch
Low down the 8 brush head body lifting level, press the switch on.
- (4) Battery indicator
Indicate the battery power situation; when the red light flash, means that you need to charge the battery ASAP;
- (5) Front light witch
If the working place is dark, you can open this front light
- (6) Power switch
Control the power of the machine.
Position “ON/1”, power on
Position “OFF/0”, power off
- (7) Squeegee body lifting level
- (8) Brush head body lifting level
- (9) Detergent solution adjustment lever
Adjust water flow of the machine
- (10) Horn
- (11)Accelerate Pedal
Press down the Accelerate Pedal, if you want higher speed, press the pedal hardly; if you want lower speed, press the pedal lightly. When you release the pedal, the machine will be stopped.
- (12)Battery charging plug
Connect the plug on the charger to this plug;
And wait about 10 seconds after connection, check whether the battery charging is ok or not?
- (13) Water level hose
Check the water level in solution tank
- (14) Front light
- (15) Filter valve
- (16) Front wheel
- (17) Drain out valve, if you want to empty the solution tank, open this valve
- (18) Traction wheel
- (19) Squeegee assembly
- (20) Suction hose assembly
- (21) Big cap
- (22) Quick water adding whole
You can use water to tube to add water.

User Manual

(23) Drain out hose assembly

Open the cap to empty the recovery tank;

(24) Traction motor brake

When you open the packing, start to work, remember to release the brake.

How to install the batteries?

1. Make sure the recovery tank is empty then side open the recovery tank.
2. Put the batteries into the battery house. Position them correctly.
3. Connect all the cable terminals.



Caution: Make sure you connect RED (+) cable terminals to positive (+) posts and BLACK (-) cable terminals to negative (-) posts. Machine will not operate if not connected properly. Failure to do so will result in damage to batteries and possible explosion.

4. Spray each post with a protective lubricant. Place battery terminal protectors over all posts.

How to Charge the Batteries



Caution: Only use a battery charger designed for the machine. Failure to do so can result in damage to the batteries.

Plug the charger red plug to the machine charging plug (16). Plug the other charger plug to 220V/120V wall outlet. The charger will automatically begin to charge the batteries.

How to Install the Squeegee

1. Put squeegee body lifting level (7) in the UP and locked position.
2. Position the squeegee blade assembly on the swing arm. Make sure the guide wheels face the rear of the squeegee.
3. Place the suction hose (20) over the nozzle. Make sure it fits tight.

How to Install Pad Holder and Brush

1. Raise the brush head body lifting level up.
2. Put the pad holder or brush pad in the middle of the brush head shell;
3. Low the brush head body lifting level down, insert it into the plate underneath by turning it counter-clockwise until it locks.

How to Fill the Solution Tank

1. Open the big cap.
2. Fill the tank with the desired level of clean water.

User Manual

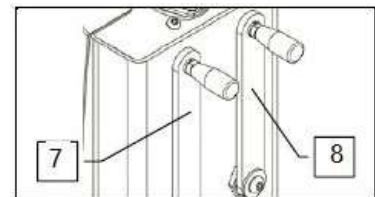
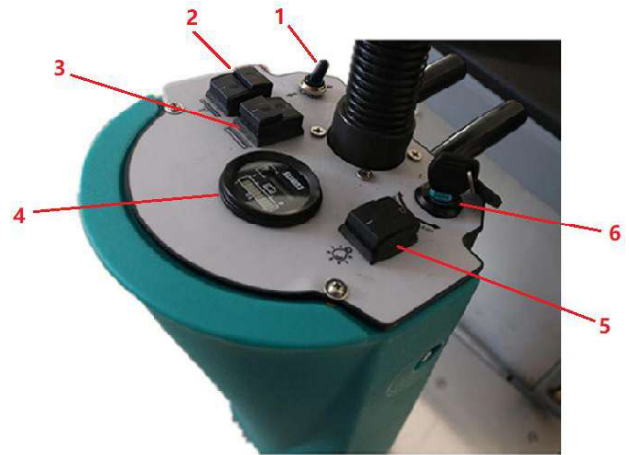
3. Add natural cleaning detergent. If you add detergent in the solution tank, then you need also add antifoam agent.
4. If you have water tube, then insert into the quick water adding whole directly.



Do not overfill.

How To Operate The Machine

1. To turn the power on, turn the key switch (6). The power indicator (4) will light up.
2. Power indicator:
 - g : green light means with power
 - i : red indicator means few power, you need to recharge the battery ASAP
3. Lay down the squeegee release level (7), press the suction motor button (2), the suction motor will start to work; when you finish your work, lift the squeegee up, the suction motor will be stopped.
4. Lay down the brush head lifting body, install the brush pad or pad holder, press the button (3), the brush motors starts.
5. Move the knob (1) into forward position, the machine will move forward automatically; while in reverse position, the machine will reverse automatically. Do remember, when you want to reverse, lift up the squeegee and the brush pads.



How to Set the Solution Flow

Adjust the water flow based on the floor conditions. Lift the water volume level up to increase the volume, lay down the level to decrease the volume.

What to Do When You're Operating the Machine

Vacuuming Up Solution

1. Make sure the squeegee is in the down position.
2. As the machine moves forward and solution is dispensed, the squeegee will vacuum it up into the recovery tank.
3. If necessary adjust squeegee pressure by the two turning knob in the behind of squeegee.

User Manual

If solution is missed, reduce the amount of solution flow and pull the machine back over the missed area. You can go forward or backward and pick up solution.

How to Control Excess Foam in the Recovery Tank

Watch the liquid as it accumulates in the recovery tank. If you notice excess foaming, stop the machine. Add the recommended amount of antifoam agent in the recovery tank (

How to Empty the Recovery Tank

Open the Recovery Drain Hose (23) to empty the Recovery Tank.

Maintenance

Daily

1. Empty and rinse the recovery tank with clean water. Leave the tank cover open on top to air dry.
2. Remove the squeegee assembly, rinse and wipe clean. Check the squeegee inlet for clogs or debris.
3. Clean and wipe the tops of batteries with an ammoniated window cleaner.
4. Charge the batteries as described in this manual.

Weekly



Never test the strength of the battery unless it is fully charged and cool.

Check the battery cells with a hydrometer.

Monthly

1. Lubricate brush and squeegee lift mechanisms with light oil.
2. Check for wear or damage of clutch plate, brushes, pads or squeegee blades.
3. Clean all battery terminals.
4. Check all electrical connections and tighten if any are loose.
5. Clean the entire machine with all purpose cleaner.

User Manual

Troubleshooting

Problem:	Possible Cause:
Solution is not being picked up	Vacuum motor is not running Water filter is clogged Recovery tank is full Squeegee or vacuum hose is clogged, broken or disconnected Bad seal at tank cover, vacuum motor or squeegee Worn or misaligned squeegee blades. Incorrect squeegee pressure. Squeegee swing arm mechanism not functioning properly.
Squeegee is leaving streaks	Debris is on blade Blades are torn or damaged Floors not properly swept before cleaning
Solution is not feeding or turning off properly	Clogging of hose or valve.
Batteries are not holding a charge	Batteries need to be replaced High current draw from high brush pressure Charger needs servicing Battery is run down
Floors are not being scrubbed, stripped or buffed properly	Brush motor not working Excessive pad or brush wear Going too fast over dirty spots Inadequate solution feed Inadequate cleaning procedure

Certificate

Model:

RD660 _____

Operation:

Outside:

Fittings:

Manual:

Packing:

QC by:

Date:

Customer acceptance::

Date:

The product provided by our company . have passed entirely the eligibility test . All of them make a good performance before leaving company . Make sure to avoid an unnecessary misunderstanding sue to the damages on transportation . please inspect products again before sale and read the specification before use.

WARRANTY CARD

When purchasing this product, please fill in this card carefully and read the following warranty terms carefully to ensure that the product is effectively warranted.

1. The user should keep this card carefully when purchasing the product
2. This warranty card must be provided at the same time when the warranty is applied.
3. The information filled in this warranty card is true, otherwise it will be invalid.
4. The product warranty period is one year. During the warranty period, if the product has a major production failure, it is due to poor quality of the original device or production problems. The company will provide solutions or replacements, and the company has the final right of interpretation.

The following reasons cause the product to be damaged and cannot be used normally, which is not covered by the warranty

1. Damage caused by failure to use and install according to the instructions.
2. All product damage caused by human or accidental causes.
3. Repairs, modifications or broken product seal stickers not approved by the company.
4. Aging, bumps and scratches on the surface of the product shell

After the warranty period expires, users can still get repair services provided by the company, but they have to pay the corresponding fees.



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