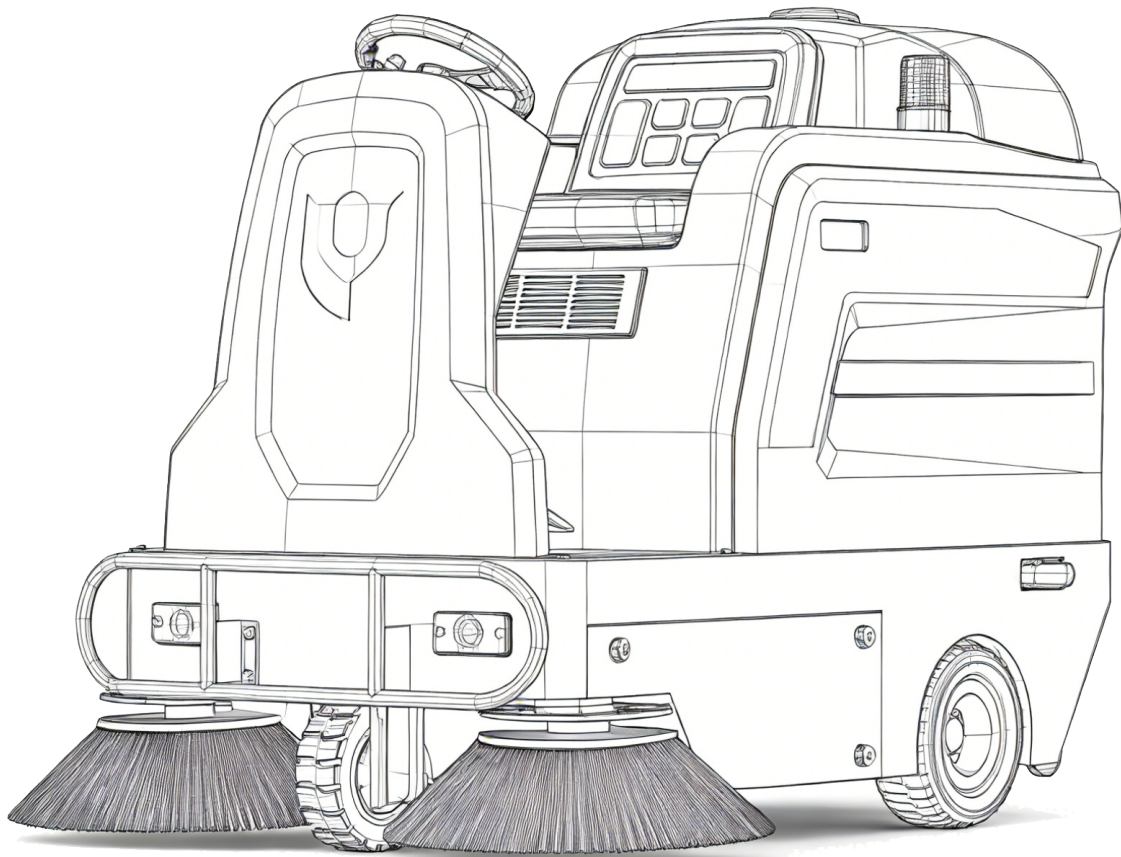


DAPPER

User Manual

48" Commercial Ride on Floor Sweeper Model: DP-RAFS1232



For any service-related issues,

Please contact us: Phone Number: 718-301-8243

Email address: support@dapper-supply.com

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Safety

Note: Read the user manual carefully before using this device.

Please read the following safety instructions carefully.

Detailed warnings and information regarding potential risks to people and equipment are provided below:

1. This machine must be operated only by professionally trained personnel. Children, individuals with disabilities, and untrained personnel are strictly prohibited from using this machine.
2. Before performing any maintenance or repair, always turn off the power and remove the key from the main power switch.
3. Do not use the machine in areas containing hazardous, flammable, or explosive gases, liquids, or water vapor.
4. This machine is designed for general waste cleaning only. It is strictly prohibited to sweep silk ropes, belts, high-temperature debris, standing water, or flammable or toxic substances. Doing so may cause entanglement or scorching of the main and side brushes, resulting in malfunction.
5. This machine is intended solely for cleaning purposes. Any use beyond the instructions outlined in this manual is not covered by the manufacturer.
6. Operating the machine under the influence of alcohol is strictly prohibited. Speeding is also prohibited.
7. Do not wear loose clothing, jewelry, or accessories while operating this machine.
8. Keep non-essential personnel away from the machine during operation.
9. During operation, the machine speed must not exceed 5 km/h (3.1 mph). Intermittent dust suppression must be used as required (frequency determined by dust conditions) to ensure optimal cleaning performance.
10. There is a risk of rollover when turning at high speed or when operating on steep slopes.
11. When the machine is not in use, it must be parked on a flat, stable surface.
12. Remove the key promptly after completing work to prevent unauthorized use.
13. If the machine stops operating or triggers a low-voltage alarm during use, recharge the battery pack promptly to help extend its service life.
14. Ensure the battery is well ventilated and kept away from open flames during charging.

Safety Requirements for Batteries

1. Prevent the battery from operating at low voltage and recharge it promptly when necessary.
2. To prevent electrical leakage, keep the battery dry and clean. Promptly remove contaminants such as metal dust.
3. Do not place metal objects (e.g., tools) on the battery, as this may cause a short circuit and result in damage.
4. Keep batteries away from open flames during handling. Dispose of or recycle batteries in accordance with local laws and regulations.
5. The charging area must be well ventilated.
6. Do not connect or disconnect the battery while the key switch is in the ON position.
7. Before disassembling the battery, disconnect the negative (–) terminal first, followed by the positive (+) terminal. When reconnecting, always verify correct battery polarity. Incorrect connection may damage the device.
8. Direct contact between the positive and negative terminals is strictly prohibited, as it may cause a high-current short circuit, generate excessive heat, and potentially result in fire.

Machine Description

Operability

The operator can control the sweeping machine to move forward, reverse, left, and right by sitting in the cab and operating the gear selector and steering wheel.

Control Panel



1. Forward / Reverse Switch
2. Turn Signal Switch
3. Main Brush and Side Brush Control Buttons
4. Vibration Dust Control Switch
5. Water Spray Switch
6. Horn Switch
7. Headlight Switch
8. Battery Level Indicator
9. Cruise Control Switch
10. Main Power Switch

Operation

Before Starting the Machine

Ensure that all doors and covers are securely closed and that the trash bin is properly latched before operating the machine. Check all components to confirm that none were loosened or displaced during transportation.

▲ Warning:

Note: To enhance driving comfort, the rear wheels are vacuum tires. Before operating the machine, check the tire pressure to ensure it is within the specified range. Improper tire pressure may reduce cleaning performance and may cause damage to the motor, belts, or wiring.

Machine Start-Up

(1) Driving Mode

Keep the main brush and side brushes raised.

Insert the key and turn it to the ON position.

To move the machine forward, shift the gear selector to the Forward position and press the speed control pedal. The machine will begin moving forward.

Machine Operation

Note: During operation, activate the vibration device periodically based on the amount of debris collected. If the filter becomes clogged or full, the machine will stop collecting waste.

After each operation and whenever the trash bin is full, the bin must be cleaned.

Caution: After every 45 minutes of continuous operation, stop the machine for 1 minute to shake off accumulated dust and empty the trash bin.

Emptying the Trash Bin

1. Release the speed control pedal to stop the machine.
2. Lift the armrest with one hand, then open the trash bin latch.
3. Pull down the trash bin and remove it from the machine.
4. Return the trash bin to the machine and securely fasten the lid.
5. The machine is now ready for reoperation.

After the Machine Has Been Used

After completing your work, perform the following steps before leaving the machine:

1. Press the stop button to raise the main and side brushes.
2. Press the dust vibration button to clean the filter.

3. Empty the trash bin.
4. Remove the key from the power switch.

Note: When the machine is stopped, always raise the brushes to prevent deformation.

Maintenance

Pushing or Towing the Machine

Caution: When the machine is shut down or malfunctioning, push or tow it at a speed not exceeding 5 km/h (3.1 mph). Disconnect one of the drive motor wires before moving the machine.

Machine Storage

If the machine will not be used for 30 days or more, store it in a clean, dry location.

First Use Inspection

After the first 8 hours of operation, perform the following checks:

Verify that all connections and fasteners are properly tightened.

Inspect visible components to ensure they are intact and undamaged.

Maintenance

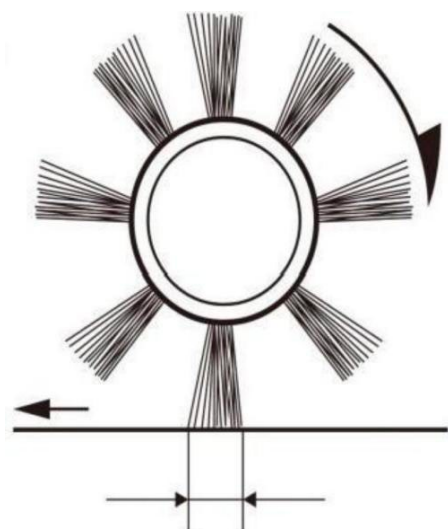
The service life and operational safety of the machine depend on proper routine maintenance. Maintenance intervals are provided in the table below and may be adjusted based on actual operating conditions. Under suitable working conditions, maintenance intervals may be modified at the discretion of qualified maintenance personnel.

Maintenance Schedule

Maintenance Item	During Transit	Every 10 Hours	Every 50 Hours	Every 100 Hours	Every 200 Hours
Check height adjustment of the main and side brushes	*	*			
Check for tangling of the main brush cable or wiring		*			
Inspect the dust filter screen		*			
Check brush edge height and operation	*		*		
Refuel at the fueling port				*	
Inspect dust collector			*		
Check main brush drive belt	*				
Check tightening of screws and nuts	*			*	
Check and adjust brake pedal	*			*	
Check wear condition of the main brush				*	
Replace main brush drive belt					*

* = Required maintenance

Checking Main Brush Ground Pressure



1. Verify that the main brush is correctly positioned against the ground. Perform the check as follows:
2. Place the machine on a level surface.
3. Hold the machine stationary and rotate the main brush for several seconds.
4. Inspect the contact pattern (brush stroke) along the length of the brush.
5. The correct brush contact width should measure 2–4 cm (0.8–1.6 in).
6. If the brush contact pattern does not fall within this range, adjust the pressure between the main brush and the ground accordingly.

7. If the brush is excessively worn and proper adjustment cannot be achieved, replace the main brush.

Caution

If the main brush wear exceeds 5 cm (2 in), normal machine operation will be compromised. Excessive wear may cause components to overheat, significantly reducing service life.

Exercise caution when performing the checks described above. The machine must be operated only under the specified conditions.

Main Brush Replacement — Safety Notice

▲ Warning:

Wear protective gloves when replacing the main brush. The brush bristles and metal components may cause hand injuries.

Be careful when replacing the main brush!

Wear gloves when replacing the main brush , as it may cut your hand.

- Turn off the star nut 1 to open the guard plate
- Loosen screw 1 and the corresponding chassis screw.
- Press down to pull out the main brush



Replacing the Main Brush

Note: The rotation direction of the main brush is indicated in the illustration. Install the main brush exactly as shown and follow the instructions in the relevant section to ensure proper operation.

Brush Replacement — Safety Notice

▲ Warning:

Wear protective gloves when replacing the main or side brushes. Brush bristles and metal components may cause hand injuries.

Side Brush Function

The primary function of the side brush is to rotate and sweep debris from both sides into the central cleaning area, where it is collected by the main brush and deposited into the trash bin. Side brushes are especially effective for cleaning corners and hard-to-reach areas, significantly improving overall cleaning efficiency.

Adjusting Side Brush Height



Under normal operation, the side brush should be positioned as shown in the reference illustration.

If the brush is set too low, excessive friction between the brush and the floor will occur, accelerating wear.

Once the bristles are excessively worn, proper floor contact cannot be maintained, reducing cleaning performance.

Use Adjustment Nut 1 to set the side brush to the correct operating height.

Side Brush Disassembly and Replacement

Remove the retaining screw.

Remove the side brush.

Install the replacement side brush.

Side Brush Rotation Direction

Ensure the side brush is installed in the correct rotation direction as shown in the illustration. Incorrect installation may reduce cleaning effectiveness and accelerate brush wear.



Cleaning and Complete Inspection of the Garbage Filter



Remove 8 nuts (2 sets).

Pull out the filter assemblies (2 sets).

Remove 6 nuts (2 sets).

Clean all dust and debris from the filter frame. If possible, inspect the rubber sealing ring on the filter frame for wear or damage and replace it if necessary. Reinstall all components in the reverse order of removal.

Charger Use

Read all instructions carefully before using the charger to ensure safe and proper operation.

If the instructions printed on the charger housing differ from those in this manual, follow the instructions provided on the charger housing.

▲ Warning:

Ensure the DC plug is securely connected to the socket. If the plug or socket shows signs of damage, looseness, or overheating, stop using the charger immediately and replace the faulty component.

To prevent arcing, always disconnect the DC connector when the charger is not in use.

To avoid damaging the charging cable, do not pull, twist, or shake the cable when disconnecting the plug from the socket.

Danger

Do not touch the battery terminals or the DC plug pins.

Note: If charging must be stopped during operation, disconnect the AC plug first, then remove the DC plug. Only after the charger is fully powered off may the DC plug be unplugged from the socket.



Operation Notice

Application Range

This charger is designed for rechargeable, maintenance-free batteries (configurable per customer specifications). It supports 12V or 6V single-cell batteries and is not compatible with battery packs of different voltages.

Batteries must match the charger's rated voltage.

For example, a 48V charger cannot charge 24V or 72V batteries, as this may result in overcharging or undercharging and could damage the battery.

Operating Steps

The input and output requirements listed in the model table require a proper power supply and battery connection.

Once the connections are correct:

The CPU performs a self-check

The battery indicator lights up

The cooling fan starts operating

The system will automatically stop charging when the battery is fully charged.

Safety Guide

▲ Warning: This symbol indicates that the operation is dangerous and is critical for proper product use.

- Do not disassemble the machine for repair or debugging without authorization.
- Do not replace the power cord without authorization.
- For AC power supply, use a three-core cable with a grounding wire, and ensure the grounding wire is properly installed.
- Do not place the charger in rain-prone or wet areas.
- Ensure the DC plug and socket are securely connected. Replace any damaged or loose components immediately.
- If the charger emits abnormal sounds or odors during normal operation, unplug the power cord immediately. Contact customer support for maintenance, and we will assist you as quickly as possible.
- Do not extend or replace the output cable.
- Do not block the charger's air inlet or outlet.
- Unplug the power cord and charging plug before moving the charger.
- The battery voltage must match the charger's nominal voltage (e.g., 48V chargers are only compatible with 48V batteries)
- To avoid damage to the charging cable, do not pull, tug, or shake it.

Charger Troubleshooting

Usage Notes and Basic Fault Diagnosis

1. Verify Charger and Battery Compatibility

- Ensure the charger specifications match the battery pack.
- Confirm whether the battery is liquid-filled or maintenance-free, and verify that both the voltage and capacity match the charger model.
- For example, charging a 48 V battery with a 72 V charger, or charging a maintenance-free battery with a charger designed for liquid-filled batteries, may cause battery swelling and permanent damage.
- Conversely, prolonged undercharging may result in battery failure.

2. Ensure Proper Charger Placement and Ventilation

- Place the charger on a stable surface with adequate ventilation, no obstructions, and protection from rain or moisture.
- The charger uses air cooling. The air intake is located at the bottom of the charger.
- Ensure the air intake remains unobstructed to allow proper heat dissipation. Blocked airflow may cause overheating and prevent normal charging operation.

3. Inspect Input and Output Connections

- Verify that all charger input and output connections are secure.
- Keep input/output plugs clean and free of carbon buildup, dirt, or other contaminants.
- Use a reliable 16 A three-pin AC socket with 2.5 mm or larger wire cross-section for mains power.
- Do not use aged extension cords, standard power strips, or unsafe wiring, as these may cause overheating or fire hazards.
- Regularly inspect battery mounting screws to ensure secure connections and cleanliness.
- For lead-acid batteries, acidic corrosion may cause poor contact and sparking. Clean the affected areas with hot water to remove acid residue and dirt, then apply a thin layer of grease to the screws to prevent further corrosion.

Warranty

Limited Warranty

Dapper Supply, Inc. extends a limited warranty to the original purchaser, guaranteeing that this Dapper Supply product is free from manufacturing defects in material or workmanship for one year from the date of purchase. If a defect is discovered within the warranty period, Dapper Supply, Inc. reserves the right to repair or replace the product at no cost to you, or to cover the cost of replacement parts and repair labor necessary to address defects present at the time of purchase or resulting from normal usage, provided the product has been installed, operated, and maintained according to the provided instructions. Any replacement parts requested within the first year are free of charge and fall under this warranty.

At its sole discretion, Dapper Supply, Inc. may choose to replace the product. In such cases, the replacement product will carry the warranty for the remainder of the original unit's warranty period.

This warranty is valid exclusively for the original purchaser of the product and applies only within the United States. The warranty begins on the date of the original purchase. Proof of the purchase date is required to obtain service under this warranty.

Under this limited warranty, your sole and exclusive remedy is the repair of the product as described above. All warranty services must be performed by a Dapper Supply-authorized service provider.

To claim warranty or request repair service:

Email: support@dapper-supply.com

Include your name, address, phone number, details of the warranty repair request, and a copy of your proof of purchase receipt. Alternatively, visit dapper-supply.com and use the "Contact Us" page. A Dapper Supply customer service representative will assist in arranging service for your product.

Thank you for choosing Dapper Supply.

WARRANTY EXCLUSIONS

This limited warranty does not cover:

1. Product failure due to power outages, interruptions, or inadequate electrical service.
2. Damage incurred during transportation or handling.
3. Damage caused by accidents, pests, lightning, wind, fire, floods, or other acts of God.
4. Damage resulting from accidents, misuse, abuse, improper installation, repair, or maintenance, including the use of devices that alter or convert the voltage or frequency of electricity.
5. Unauthorized product modifications, repairs performed by unauthorized providers, or use of non-approved replacement parts.
6. Cleaning and maintenance not performed according to the user manual.
7. Use of incompatible accessories or components.
8. Any costs associated with repairs or replacements under these excluded circumstances will be the responsibility of the consumer.

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