

ND-28

INTRODUCTION

This manual is furnished with each new model. It provides necessary operation and maintenance instructions.



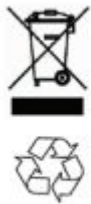
Read this manual completely and understand of the machine before operating or servicing it.

This machine will provide excellent service. However, the best results will be obtained at minimum costs if:

- The machine is operated with reasonable care.
- The machine is maintained regularly - per the machine maintenance instructions provided.
- The machine is maintained with manufacturer supplied or equivalent parts.

INTENDED USE

The ND-28 is an industrial/commercial rider machine designed to wet scrub both rough and smooth hard surfaces (concrete, tile, stone, synthetic, etc). Typical applications include schools, hospitals / health care facilities, office buildings, and retail centers. Do not use this machine on soil, grass, artificial turf, or carpeted surfaces. This machine is intended for indoor use only. Do not use this machine other than described in this Operator Manual.



PROTECT THE ENVIRONMENT

Please dispose of packaging materials and used machine components such as batteries in an environmentally safe way according to your local waste disposal regulations.

Always remember to recycle.

Please fill out at time of installation for future reference.

Model No. - _____

Serial No. - _____

Installation Date - _____

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IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTION

The following warning precautions are used throughout this manual as indicated in their description:

⚠WARNING: To warn of hazards or unsafe practices which could result in severe personal injury or death.

FOR SAFETY: To identify actions which must be followed for safe operation of equipment.

The following information signals potentially dangerous conditions to the operator. Know when these conditions can exist. Locate all safety devices on the machine. Report machine damage or faulty operation immediately.

⚠WARNING: To Reduce the Risk of Fire, Explosion, Electric Shock or Injury:

- Read manual before operating machine.
- Do not use or pick up flammable materials.
- Do not use near flammable liquids, vapors or combustible dusts.

This machine is not equipped with an explosion proof motor. The electric motor will spark upon start up and during operation which could cause a flash fire or explosion if machine is used in an area where flammable vapors/liquids or combustible dusts are present.

- Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging.
- Disconnect battery cables and charger cord before cleaning and servicing machine.
- Do not charge batteries with damaged cord. Do not modify plug.

If the charger supply cord is damaged or broken, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

- Do not use outdoors. Store indoors.
- Spinning pad/brush, keep hands away.

FOR SAFETY:

1. Do not operate machine:

- Unless trained and authorized.
- Unless operator manual is read and understood.
- Unless mentally and physically capable of following machine instructions.
- Under the influence of alcohol or drugs.
- While using a cell phone or other types of electronic devices.
- If not in proper operating condition.
- In outdoor areas. This machine is for indoor use only.
- In areas where flammable vapors/liquids or combustible dusts are present.
- With pads or accessories not supplied or approved by Wellland. The use of other pads may impair safety.
- In areas with possible falling objects.
- In areas that are too dark to safely see the controls or operate machine.

2. Before operating machine:

- Check machine for fluid leaks.
- Make sure all safety devices are in place and operate properly.

3. When operating machine:

- Use only as described in this manual.
- Report machine damage or faulty operation immediately.
- Wear closed- toe, non- slip work shoes.
- Reduce speed when turning.
- Go slowly on inclines and slippery surfaces.
- Do not scrub on inclines that exceed 9% grade or transport on inclines that exceed 21% grade.
- Follow site safety guidelines concerning wet floors.
- Follow mixing, handling and disposal instructions on chemical containers.
- Do not carry passengers on machine.
- Use care when reversing machine.
- Keep children and unauthorized persons

away from machine.

- Do not allow machine to be used as a toy.

4. Before leaving or servicing machine:

- Stop on level surface.
- Set the parking brake, if equipped.
- Turn off machine and remove key.

5. When servicing machine:

- Disconnect battery connection and charger cord before working on machine.
- All work must be done with sufficient lighting and visibility.
- All repairs must be performed by trained personnel.
- Use Welland supplied or approved replacement parts.
- Do not modify the machine from its original design.
- Do not jack up machine.
- Avoid moving parts. Do not wear loose clothing or jewelry and secure long hair.
- Do not disconnect the off-board charger's DC cord from the machine's receptacle when the charger is operating. Arcing may result. If the charger must be interrupted during charging cycle, disconnect the AC power supply cord first.
- Do not use incompatible battery chargers as this may damage battery packs and potentially cause a fire hazard.
- Inspect charger cord regularly for damage.
- Keep work area well ventilated.
- Avoid contact with battery acid.
- Keep all metal objects off batteries.
- Do not power spray or hose off machine.
- Use a hoist or adequate assistance when lifting batteries.
- Battery installation must be done by trained personnel.
- Wear personal protection equipment as needed and where recommended in this manual.

For Safety: wear protective gloves.

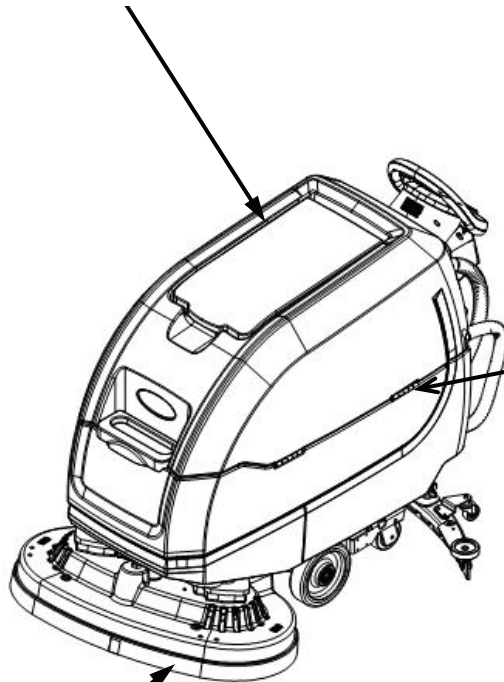
For Safety: wear eye protection.

6. When loading/unloading machine onto/off truck or trailer:

- Drain tanks before loading machine.
- Use a ramp, truck or trailer that can support the machine weight and operator.
- Do not operate the machine on a ramp incline that exceeds a 21% grade level.
- Use a winch if ramp incline exceeds a 21% grade level.
- Lower the scrub head and squeegee before tying down machine.
- Turn machine off and remove key.
- Set parking brake (if equipped).
- Block machine wheels.
- Use tie-down straps to secure machine.

SAFTEY LABELS

The safety labels appear on the machine in the locations indicated. If these or any label becomes damaged or illegible, install a new label in its place.



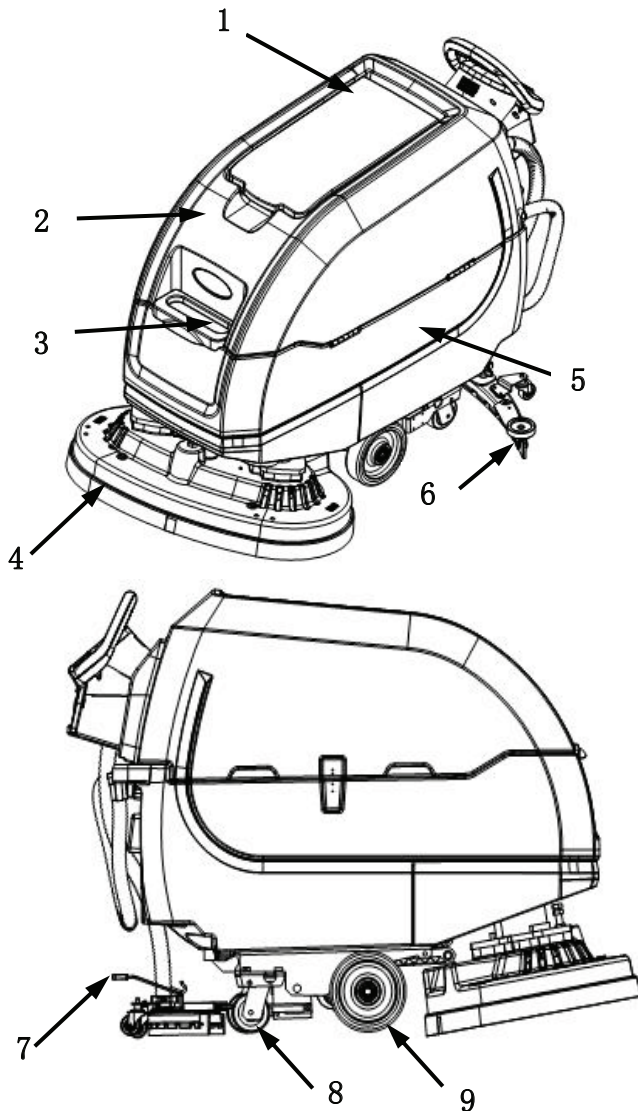
WARNING LABEL -
Batteries emit hydrogen gas.
Explosion or fire can result.
Keep sparks and open flame away when charging.
At the bottom of the recovery tank.



WARNING LABEL
- Spinning brush. Keep hands away.
Located on cylindrical scrub head model.

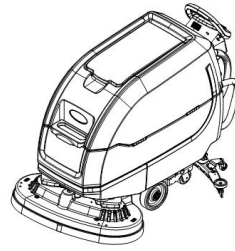
OPERATION

MACHINE COMPONENTS

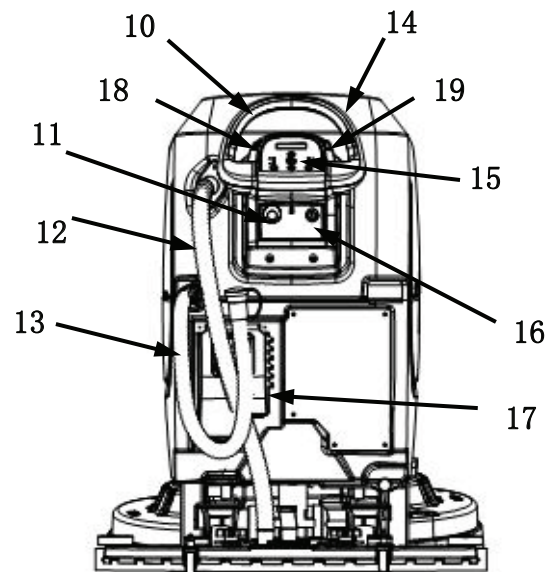


- 1、Recovery tank lid
- 2、Recovery tank
- 3、Solution tank fill-port
- 4、Scrub head
- 5、Solution tank
- 6、Squeegee assembly
- 7、Squeegee foot pad
- 8、Caster
- 9、Tires
- 10、Control handle

1. Scrub Head Types



70Scrub Head



- 11、Emergency shut-off button
(Driving Model)
- 12、Squeegee vacuum hose
- 13、Recovery tank drain hose
- 14、Control handle start bail
- 15、Control panel
- 16、Key switch
- 17、Battery charger
- 18、Speed control knob
- 19、Forward/Reverse lever

INSTALLING BATTERIES

WARNING: Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging.

FOR SAFETY: When servicing machine, wear appropriate personal protection equipment as needed. Avoid contact with battery acid.

BATTERY SPECIFICATIONS

Requires four 6 volt deep-cycle batteries, ≤ 260 Ah @ 20 hr.

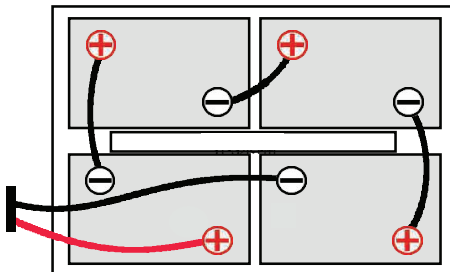
Contact distributor or Wellland for battery recommendations.

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

1. Lift the recovery tank to access the battery compartment.



2. Carefully install the batteries into the battery compartment tray and arrange the battery posts as shown. Position foam spacer between batteries as shown.



FOR SAFETY: When servicing machine, use a hoist or adequate assistance when lifting batteries.

3. Using the supplied battery post boots, connect the cables to battery posts, RED TO POSITIVE (+) & BLACK TO NEGATIVE (-).

HOW THE MACHINE WORKS

Conventional scrubbing:

When using the conventional scrubbing mode, water and detergent mixture from the solution tank flows to the floor and the rotating brush(es)/pad(s) scrub the floor clean. As the machine moves forward, the squeegee with vacuum suction picks up the dirty solution from the floor into the recovery tank.

BRUSH AND PAD INFORMATION

For best cleaning results use the appropriate brush or pad for your cleaning application. Listed below are brushes and pads and the applications for which each is best suited. NOTE: The amount and type of dirty play an important role in determining the type of brush or pad to use. Contact a Wellland representative for specific recommendations.

Nylon bristle scrub brush -

Recommended for cleaning coated floors without removing finish. Cleans without scuffing.

Needle seat-

There are thousands of small hooks on the needle that can hook the clean pad, so that when the machine runs at high speed, the needle firmly grasps the clean pad.

Pad (White)-

Used to maintain a highly polished or polished ground.

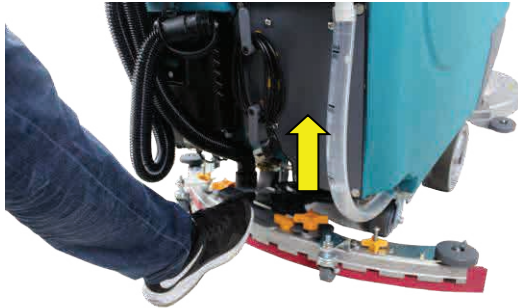
Polished pad (red)-

Used for light load floor washing without removing brushing oil from the ground.

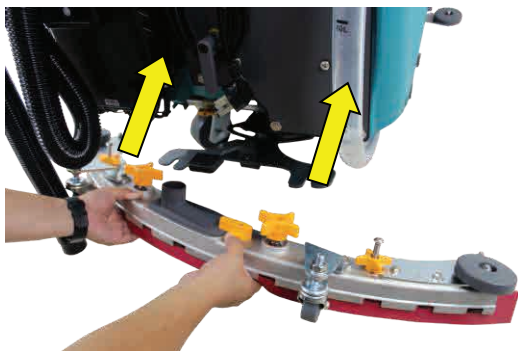
MACHINE SETUP

ATTACHING SQUEEGEE ASSEMBLY

1. Lift the squeegee mount bracket to the raised position. Place foot under pedal to lift.



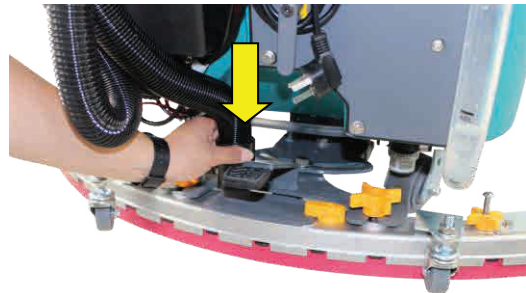
2. Mount the squeegee assembly to the squeegee mount bracket. Tighten knobs to secure squeegee assembly to bracket.



3. Tighten the middle two-star knob clockwise and fasten the suction grilled assembly to the shelf.



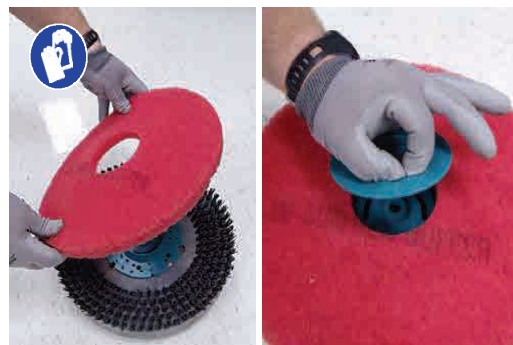
4. Connect the vacuum hose to the squeegee assembly.



INSTALLING DISK BRUSHES/PADS

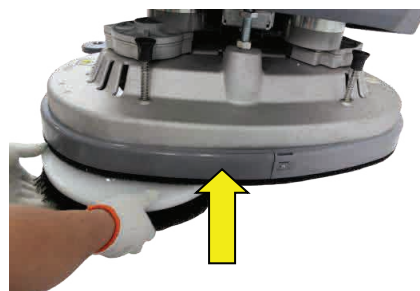
FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

1. Raise scrub head off floor, Attach the pad to the pad driver before installing the driver. Secure pad with center-lock.



FOR SAFETY: Do not operate machine with pads or accessories not supplied or approved by Wellland. The use of other pads may impair safety.

2. Align the needle or brush disc under the motor hub and push upward to engage the hub.



3. To remove the pad drivers/brushes, raise the scrub head and press down on the button . Pad will drop to floor.



FILLING SOLUTION TANK

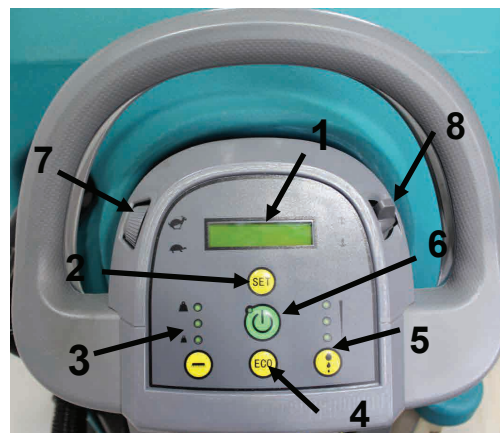
The machine is equipped with two solution tank fill-port locations. A front bucket fill-port and a rear hose fill-port.



WARNING: Flammable materials can cause an explosion or fire. Do not use flammable materials in tank(s).

ATTENTION: For Conventional Scrubbing, only use commercially approved cleaning detergents. Machine damage due to improper detergent usage will void the manufacturer's warranty.

CONTROL PANEL OPERATION



1. Display screen
2. Set
3. Pressure governing
4. Energy-saving mode
5. Water quantity regulation
6. One-click cleaning button
7. Speed regulating switch (Driving type)
8. Forward / backward switch (Drive type)

MACHINE OPERATION

PRE—OPERATION CHECK

1. Clean the obstacles on the ground.
2. Check the battery power.
3. Check whether the power supply of the tow line is properly connected.
4. Check the wear of the cleaning pad/brush.
5. Check the wear and tear of the glue strip and adjust the angle properly.
6. Ensure that the sewage tank is empty and that the floating filter is installed and clean.
7. Check the wear and tear of the brush skirt.

OPERATING MACHINE

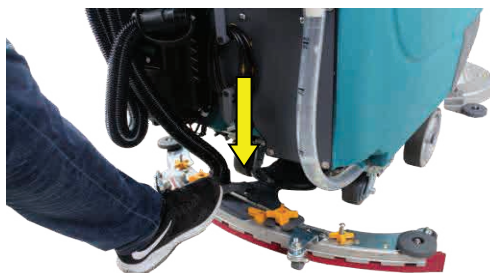
1. Turn right the key.



2. Push the One-click cleaning button.



4. Lower the squeegee assembly to floor by stepping on foot pedal . To raise squeegee assembly, place foot under foot pedal and lift. The vacuum motor will automatically start when squeegee is lowered to floor.



5. To begin scrubbing, pull the start bail.



6. Regulating water volume.



7. Adjust the brush pressure.



8. Forward/back. (Driving type)



9. Speed adjustment. (Driving type)



WHILE OPERATING MACHINE



WARNING: Flammable materials or reactive metals can cause an explosion or fire. Do not pick up.

- 1.Overlap each scrub path by 5 cm.
- 2.Keep machine moving to prevent damage to floor finish.
- 3.Wipe squeegee blades with a cloth if blades leave streaks.
- 4.Avoid bumping the machine into posts and walls.

FOR SAFETY: When operating machine, the machine may only be operated on gradients up to 2%.

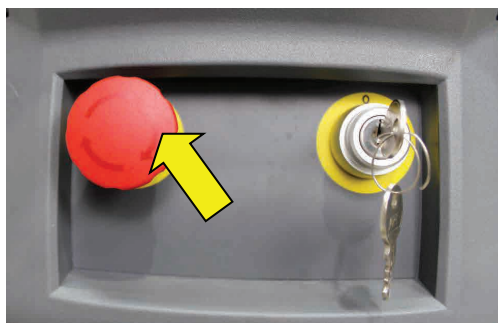
- 5.Pour a recommended foam control solution into the recovery tank if excessive foam appears.

ATTENTION: Foam buildup will not activate the float shut-off screen, vacuum motor damage will result.

- 6.Use the double scrubbing method for heavily soiled areas. First scrub the area with the squeegee up, let solution set for 3-5 minutes, then scrub the area a second time with squeegee down.

EMERGENCY SHUT-OFF BUTTON

Push the emergency shut-off button in the event of an emergency . This red button shuts off all power to machine. To regain power, turn the button clockwise and restart the key.



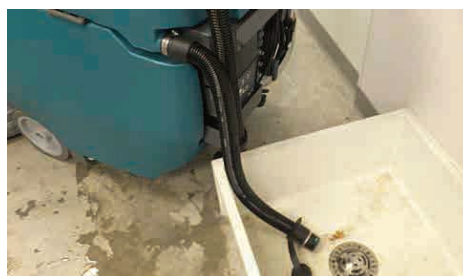
DRAINING TANKS

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

DRAINING RECOVERY TANK

Drain the recovery tank daily.

- 1.Transport the machine to drain area. For models equipped with drain hose caps, hold the hose upward, remove cap then slowly lower hose to drain. For models equipped with flow control valve drain hose, lower hose and slowly open valve to drain.

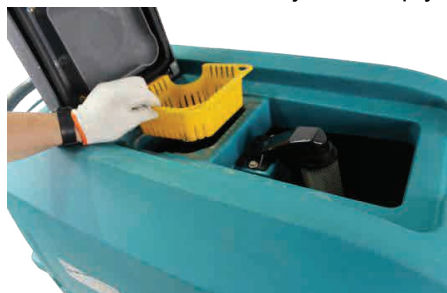


NOTE: When using a bucket to drain the machine, do not use the same bucket to fill the solution tank.

- 3.Remove and clean the float shut-off screen.



- 4.Remove the debris tray and empty.



- 5.Rinse out the recovery tank with clean water and wipe clean of any soil residue.

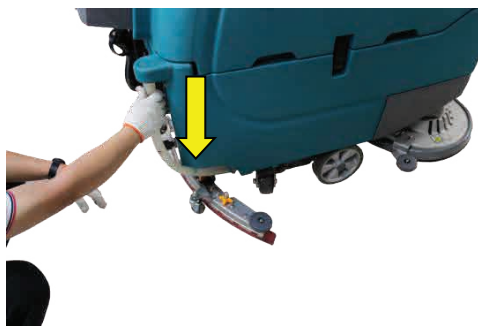
DRAINING SOLUTION TANK

Drain the solution tank daily.

1. Transport the machine to drain area.

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

2. To drain remaining water from solution tank, pull the solution tank level hose from the accessory rail. Firmly reconnect the hose to the accessory rail after draining tank.



3. Rinse solution tank with clean water



4. Remove the solution tank filter and clean screen after every 50 hours of use. Solution filter is located under machine at rear. Drain solution tank before removing filter.



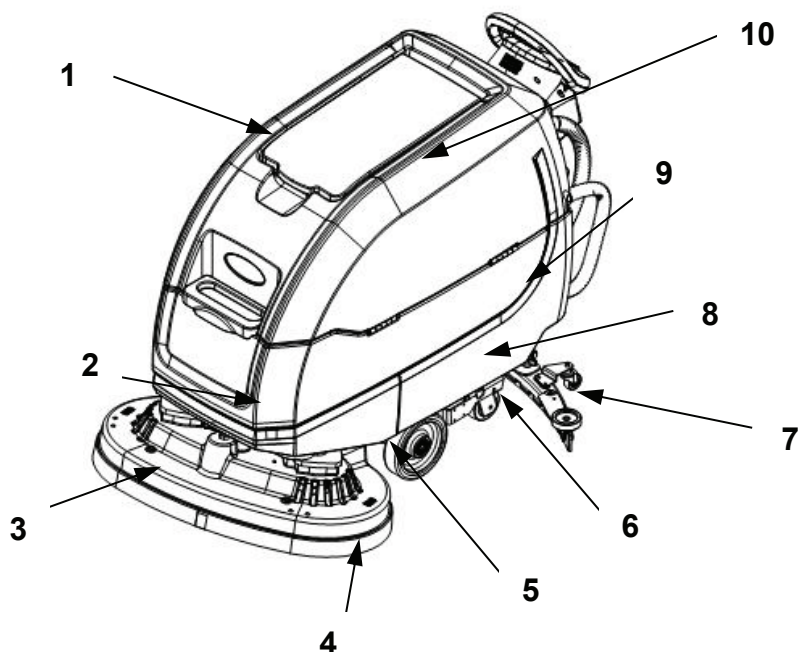
WATER SWITCH

1. Please open this switch before operating the machine.

2. When the solenoid is out of order, turn off the switch to close off the water.



MAINTENANCE CHART



Interval	Person Resp	Key	Description	Procedure
Daily	O	3	Pads	Check, flip or replace
Daily	O	3	Brush	Check, clean
Daily	O	1	Recovery tank	Drain, rinse, clean float shut-off screen and debris tray
Daily	O	9	Solution tank	Drain, rinse
Daily	O	7	Squeegee	Clean, check for damage and wear
Daily	O	8	Battery	Charge if necessary
Daily	O	4	Scrub head skirt	Check for damage and wear
Daily	O	7	Squeegee tank	Check, clean
50 Hours	O	10	Recovery tank lid seal	Recovery tank lid seal Check for wear.
50 Hours	O	6	Solution tank filter	Remove and clean
100 Hours	O	8	Batteries, terminals and cables	Check and clean
750 Hours	T	1	Vacuum motor	Replace carbon brushes
1250 Hours	T	5	Propel motor	Replace carbon brushes
1250 Hours	T	2	Brush motor	Replace carbon brushes

O = Operator T = Trained Personnel

MACHINE MAINTENANCE

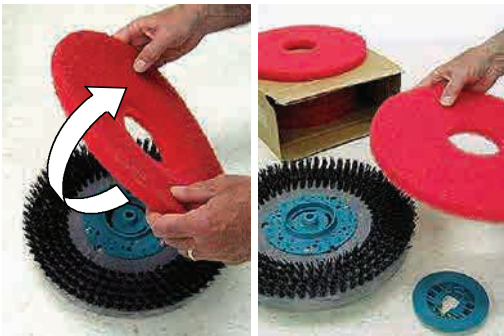
To keep the machine in good working condition, simply perform the following maintenance procedures.

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

FOR SAFETY: When servicing machine wear personal protection equipment as needed. All repairs must be performed by trained personnel.

AFTER DAILY USE

1. Drain and rinse out the recovery tank .
2. Drain and rinse out the solution tank.
3. Disk scrub head - Turn pad over or replace when worn.



4. Remove the brush plate, clean the brush plate and the residue on the edge of the water skirt. Check the edge of the wash skirt for wear or damage. If worn or damaged, replace.



4. Wipe the squeegee blades clean. Inspect blades for wear and damage . Rotate blade if worn.



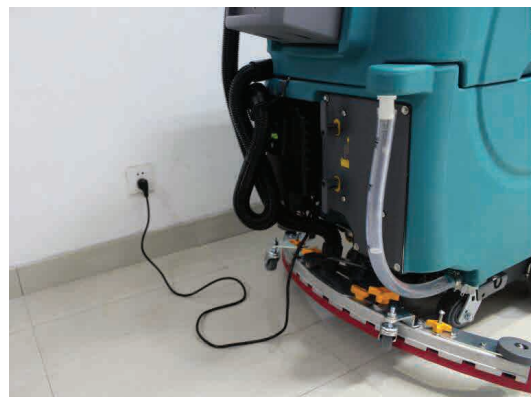
6. Clean the outside surface of the machine with an all purpose cleaner and damp cloth.

7. Remove the drip trap cover from the squeegee assembly and clean reservoir.



9. Take off the charging line from the wire hook, and then insert the other end of the charger and then insert the power supply for charging.

ATTENTION: Do not disconnect battery cables while charger is plugged in, circuit board damage may result.



AFTER EVERY 50 HOURS OF USE

1. Drain solution tank. Remove the solution tank filter and clean screen . Turn the filter bowl counter-clockwise to remove.



2. Check and clean the seal for the sewage tank cover. If damaged, replace the seal.



MOTOR CARBON BRUSH

Replace motor carbon brushes as indicated. Contact trained personnel for carbon brush replacement.

Replace motor carbon brushes	HOURS
Vacuum motor	750
Propel motor (drive model)	1250
Disk brush motor	1250

BATTERIES

MAINTENANCE-FREE BATTERIES

Maintenance-free (Sealed AGM) batteries do not require watering. Cleaning and other routine maintenance is still required.

CHECKING CONNECTIONS / CLEANING

After every 200 hours of use, check for loose battery connections and clean the surface of the batteries, including terminals and cable clamps to prevent battery corrosion.

CHARGING BATTERIES

The charging instructions in this manual are intended for the battery charger supplied with your machine. The use of other battery chargers that are not supplied and approved by Wellland are prohibited.

FOR SAFETY: The use of incompatible battery chargers may damage battery packs and potentially cause a fire hazard.

1. Transport the machine to a well-ventilated area.

WARNING: Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging.

2. Park the machine on a flat, dry surface, turn off machine and remove key.

FOR SAFETY: When servicing batteries, stop on level surface, turn off machine, remove key and set parking brake if equipped.

3. For models equipped with an on-board charger, remove the charger's power cord from the storage hooks and plug power cord into a properly grounded wall outlet

FOR SAFETY: Do not disconnect the off-board charger's DC cord from the machine's receptacle when the charger is operating. Arcing may result. If the charger must be interrupted during charging, disconnect the AC power supply cord first.

4. The charger will automatically begin charging and shut off when fully charged. The maximum charging cycle may take up to

BATTERY CHARGER SETTINGS

The battery charger is set to charge the battery type supplied with your machine. If you choose to change to a different battery type or capacity, the charger's charging profile must be changed to prevent battery damage.

SQUEEGEE BLADE REPLACEMENT

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

Each squeegee blade has four wiping edges. When the blades become worn, simply rotate the blades end-for-end or top-to-bottom for a new wiping edge. Replace blade if all four edges are worn.

1. Remove the squeegee assembly from the machine.
2. Fully loosen the two outside knobs on squeegee assembly. This will separate the spring loaded blade retainer from squeegee frame. To loosen the knobs quickly, squeeze the blade retainer and squeegee frame together.



3. Remove worn blade(s) from the blade retainer.



4. Rotate the rear blade to a new wiping edge and reinstall blade. Make sure to align the slots in the blade with retainer tabs.



5. Squeeze the squeegee frame and blade retainer together and re-tighten the two outside knobs.



TRANSPORTING MACHINE

When transporting the machine by use of trailer or truck, carefully follow loading and tie-down procedure:

1. Drain tanks, raise the scrub head and the remove squeegee assembly.
2. Carefully load machine in trailer or on truck.

FOR SAFETY: When loading/unloading, use a ramp that can support the machine weight and operator.

FOR SAFETY: When loading/unloading, the machine may only be operated on gradients up to 2%.

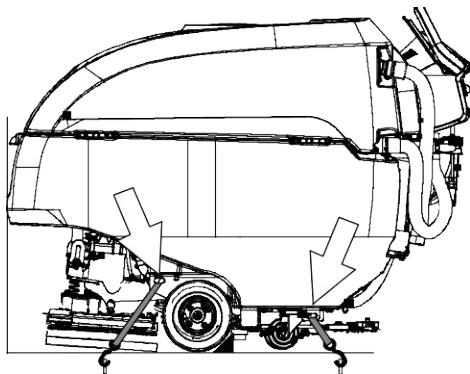
3. Once loaded, position the front of the machine up against the front of the trailer or truck. Lower the scrub head, turn key off and set parking brake, if equipped.

4. Place a block behind each wheel .

5. Using tie-down straps, secure the machine using the four tie-down brackets located on the machine frame . It may be necessary to install tie-down brackets to the floor of your trailer or truck.

NOTE: When transporting machine in an open truck or trailer, secure recovery tank lid.

ATTENTION: Do not use control console area or accessory storage rails for tie-down locations, damage may occur.



STORING MACHINE

The following steps should be taken when storing the machine for extended periods of time.

1. Charge the batteries before storing machine to prolong the life of the batteries. Recharge batteries every 3 months.

2. Drain and rinse recovery tank and solution tank.

3. Store the machine in a dry area with squeegee and scrub head in the up position.

ATTENTION: Do not expose machine to rain, store indoors.

4. Open the recovery tank lid to promote air circulation.

NOTE: To prevent potential machine damage store machine in a rodent and insect free environment.

FREEZE PROTECTION

Storing machine in freezing temperatures.

1. Completely drain solution tank and recovery tank.
2. Empty the water from the solution tank filter located under machine. Replace filter.



3. After storing machine in freezing temperatures, drain any remaining antifreeze from the solution tank. Add clean water to solution tank and to optional detergent tank and operate the machine to flush system.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Machine will not operate	Emergency shut-off button activated	Turn button to reset
	Batteries discharged	Recharge batteries
	Loose battery cable(s)	Tighten loose cables
	Faulty battery(s)	Replace battery(s)
	Faulty key switch	Contact service
	Faulty start bail switch	Contact service
	Faulty control board	Contact service
battery charger will not operate	Plug not connected to power supply	Check plug connection
	Batteries over discharged	Replace batteries
	Faulty charger	Replace charger
Machine will not propel	Propel fault has been detected	Contact service
	Faulty propel motor or wiring	Contact service
	Worn carbon brushes in motor	Contact service
Brush motor will not operate	Brush motor fault has been detected.	Contact service
	Faulty pad motor or wiring	Contact service
	Worn carbon brushes in motor	Contact service
Vacuum motor will not operate Poor scrubbing performance	Squeegee assembly is raised off floor	Lower squeegee assembly to floor
	Vacuum motor fault has been detected	Contact service
	Faulty vacuum motor or wiring	Contact service
	Debris caught in brush/pad	Remove debris
	Worn brush/pad	Replace brush/pad
	Incorrect brush pressure	Adjust brush pressure
	Wrong brush/pad type	Use correct brush/pad for application
	Low battery charge	Recharge batteries
Trailing water - poor or no water pickup	Full recovery tank or excessive foam buildup	Drain recovery tank
	Loose drain hose cap or flow control valve is open	Replace cap or close flow control valve on drain hose
	Worn squeegee blades	Rotate or replace squeegee blades

	Clogged drip trap (Squeegee assembly)	Remove cover and clean
	Clogged squeegee assembly	Clean squeegee assembly
	Loose vacuum hose connection	Secure vacuum hose connection
	Clogged vacuum hose	Flush vacuum hose
	Damaged vacuum hose	Replace vacuum hose
	Clogged float shut-off screen in recovery tank	Clean screen
	Recovery tank lid not completely closed	Check lid for obstructions
	Defective seals on recovery tank lid	Replaced seal
Little or no solution flow	Empty solution tank	Refill solution tank
	Low solution flow rate set	Increase solution flow rate
	Clogged solution tank filter	Clean filter
	Plugged solution supply line	Flush solution supply line
Short run time	Low battery charge	Charge batteries
	Batteries need maintenance	See BATTERIES
	Defective battery or end of battery life	Replace batteries
	Faulty charger	Replace battery charger
	Brush pressure set too high	Lower brush pressure

TECHNICAL DATE

Technical Data	ND-28
Solution Tank	90L
Recovery Tank	106L
Driving system	24VDC, 450W
Cleaning rate	2950 m ² /h
Cleaning path width	700mm
Squeegee width	1151mm
Brush motor	2*0.5KW 200rpm
Vacuum motor	0.64KW
Voltage	24VDC
Maintenance Fee Battery	220AH/20H
Intelligent charger	25A
Run Time Per Charge	4.5h-5h
Noise Level	67dba
Volume(L*W*H)	1389×560×1095mm
Weight(with battery)	350kg

MACHINE DIMENTIONS

