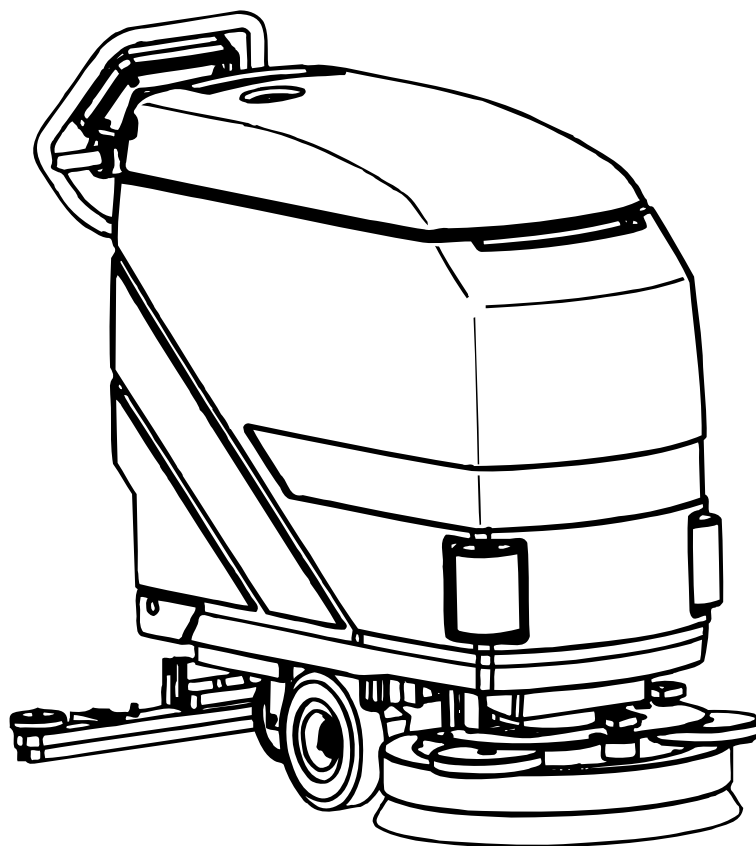


ADVANCE

BA 5321



BRUGSANVISNING

BRUKSANVISNING

KÄYTTÖOHJE

INSTRUCTIONS FOR USE

BEDIENUNGSANLEITUNG

MODE D'EMPLOI

GEBRUIKSAANWIJZING

INSTRUCCIONES DE UTILIZACIÓN

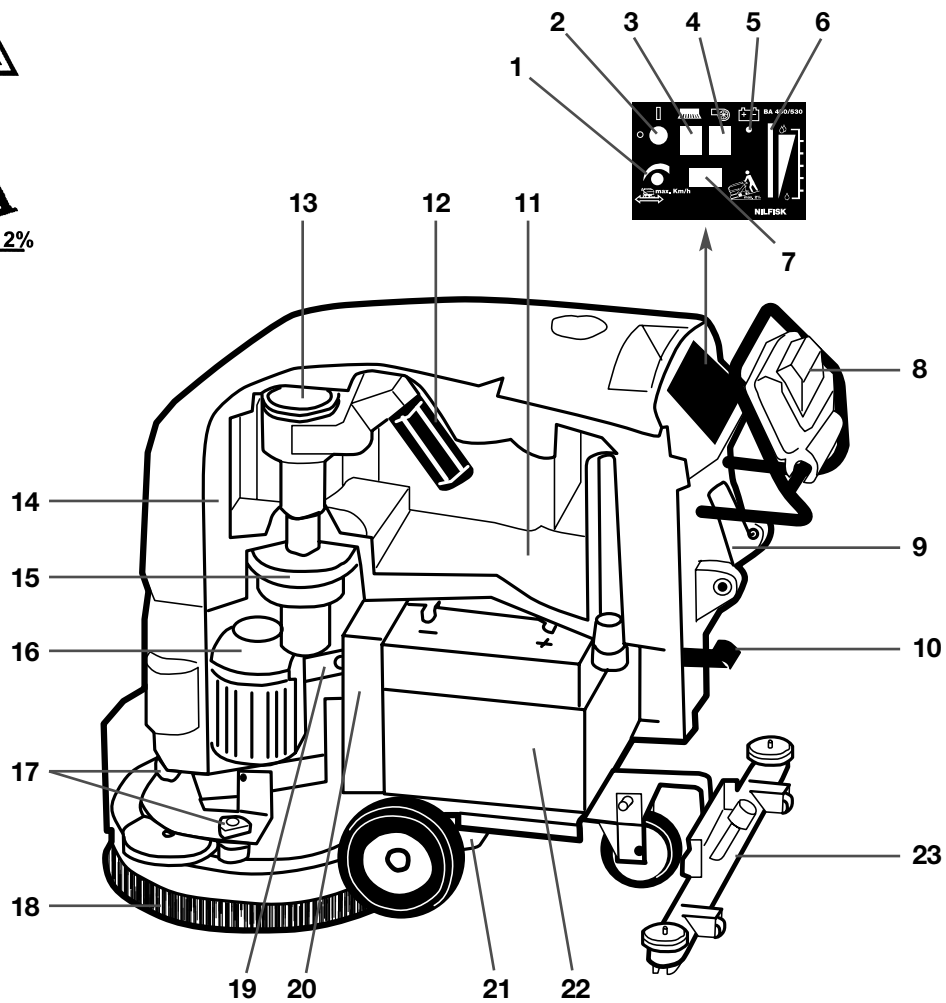
INSTRUÇÕES DE UTILIZAÇÃO

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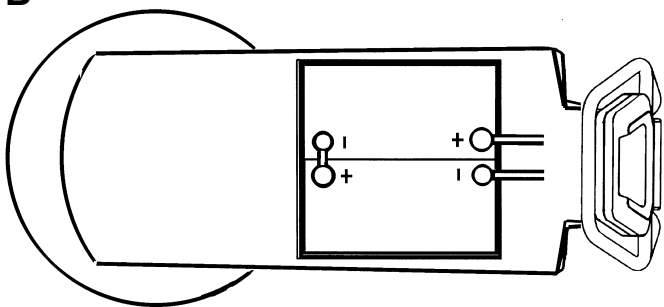
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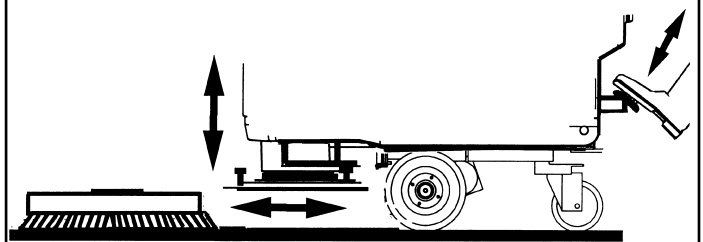
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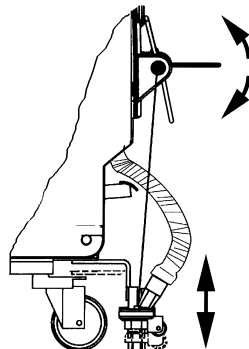
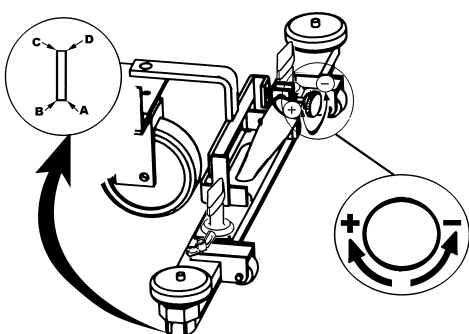
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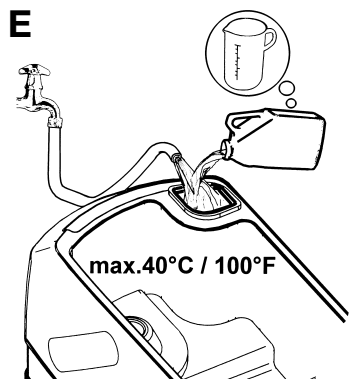
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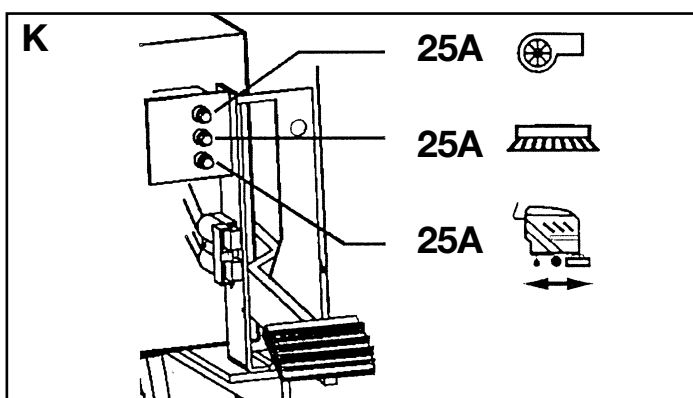
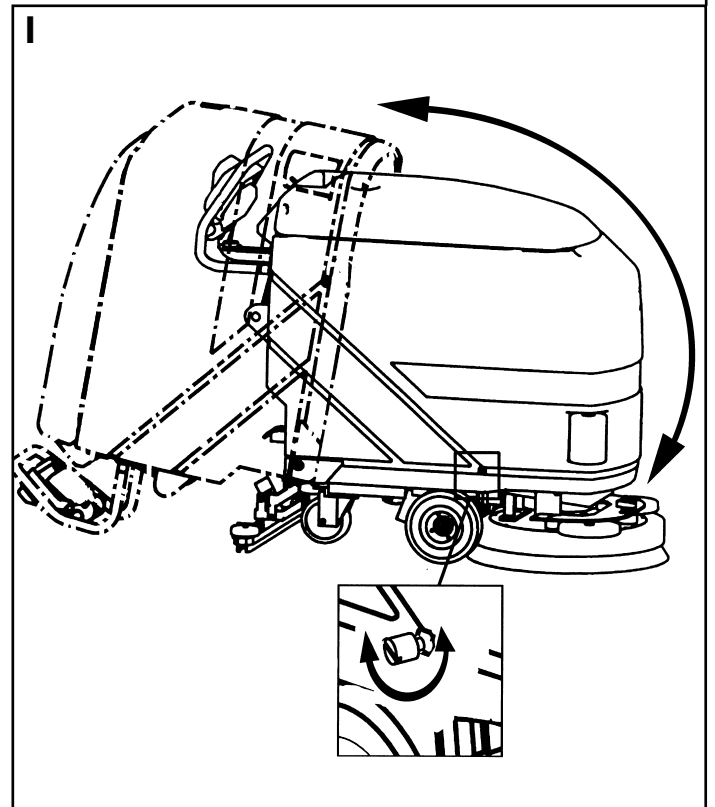
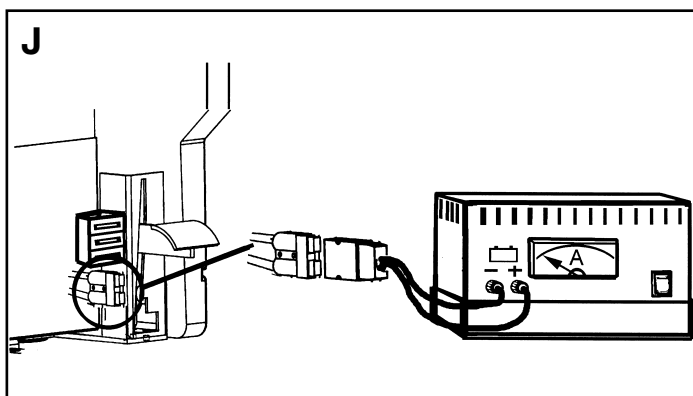
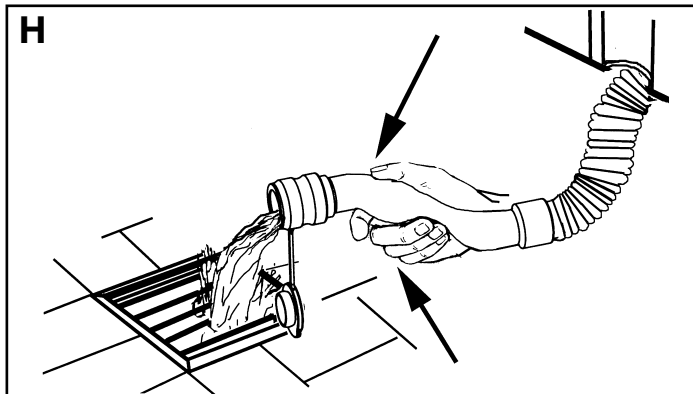
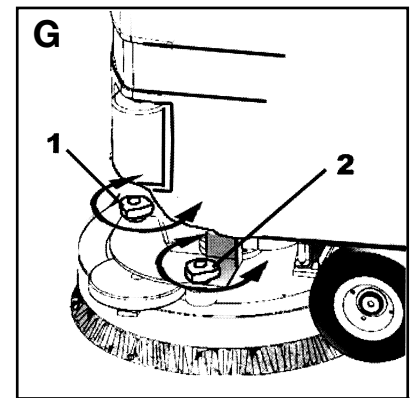
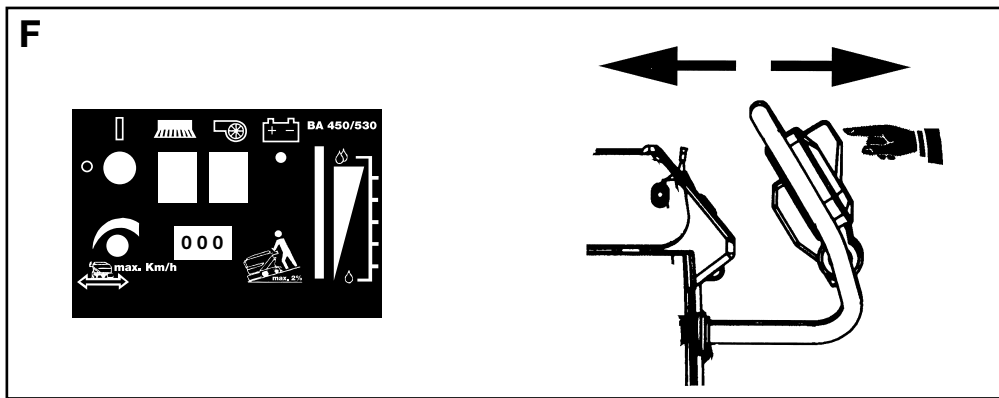


D



E





CAUTIONS AND WARNINGS

SYMBOLS

Advance uses the symbols below to signal potentially dangerous conditions. Read this information carefully and take the necessary steps to protect personnel and property.

DANGER!

Is used to warn of immediate hazards that will cause severe personal injury or death.

WARNING!

Is used to call attention to a situation that could cause severe personal injury.

CAUTION!

Is used to call attention to a situation that could cause minor personal injury or damage to the machine or other property.

IMPORTANT WARNINGS

Specific cautions and warnings are included to warn you of potential danger of machine damage or bodily harm.

WARNING!

- The Advance machines and the accessories supplied by the manufacturer are suitable for scrubbing hard floors only. The use of non Advance accessories may impair the safe operation of the machine.
- This machine should only be used by properly trained and authorized persons.
- Keep sparks, flame and smoking materials away from batteries.
- Charge batteries only in well-ventilated areas, away from open flame. Do not smoke while charging the batteries.
- Remove all jewelry when working near electrical components.
- Disconnect the batteries before servicing.
- Never work under a machine without safety blocks or stands to support the machine.
- Do not dispense flammable cleaning agents, operate the machine on or near these agents, or operate in areas where flammable liquids exist.
- Do not clean this machine with a pressure washer.
- Do not operate this machine on ramps or inclines of more than a 2 percent gradient.
- Do not insert any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair and anything that may reduce air flow.
- Do not pick up anything that is burning or smoking such as cigarettes, matches, hot ashes, or any health endangering dusts.

CAUTION!

- This machine is not approved for use on public paths or roads.
- This machine is not suitable for picking up hazardous dust.
- When operating this machine, ensure that third parties, particularly children, are not endangered.
- Before performing any service function, carefully read all instructions pertaining to that function.
- Disconnect the battery connector/ charger plug/ before servicing, when changing the brush/pad/ padholder, and before opening any access panels.

- Take precautions to prevent hair, jewelry, or loose clothing from becoming caught in moving parts.
- Use caution when moving this machine in below freezing temperature conditions. Any water in the solution or recovery tanks or in the hose lines could freeze.
- For repairs, use original Advance spare parts only. The use of other similar parts will automatically exclude the manufacturer's liability.
- When cleaning and servicing the machine, local or national regulations may apply to the safe disposal of liquids which may contain:
-chemicals, grease, oil, acid, alkalines or other dangerous liquids.
- When disposing of:
-old machines or machine components, local or national regulations may apply to their safe disposal.

SAVE THESE INSTRUCTIONS

INSTRUCTIONS FOR USE

Before using the machine make sure that the frequency and voltage shown on the rating plate correspond with the mains voltage.

This manual will help you get the most from your Advance BA 5321. Read it thoroughly before operating the machine.

Note: Encircled capital letters refer to an item illustrated on Page 2/3.

This product is intended for commercial use only.

UNPACKING

When the machine is delivered, carefully inspect the shipping carton and the machine for damage. If damage is evident, save the shipping carton so that it can be inspected by the carrier that delivered it. Contact the carrier immediately to file a freight damage claim.

(A) KNOW YOUR MACHINE

1. Speed control potentiometer*
2. Main key switch*
3. Brush switch
4. Vacuum switch
5. Battery condition indicator
6. Solution flow control lever
7. Hour meter
8. Start/Stop drive panel
9. Squeegee raise / lower handle
10. Brush raise / lower pedal
11. Recovery tank
12. Recovery tank automatic float shut-off
13. Pre-filter turbine
14. Solution tank
15. Vacuum motor
16. Brush motor
17. Traction control knob
18. Brush
19. Built-in battery charger**
20. Circuit board
21. Drive motor*
22. Batteries
23. Squeegee assembly

* BA 5321 with drive motor only

** optional

NAMEPLATE

The Model and Serial Number of your machine are shown on the nameplate on the machine. This information is needed when ordering repair parts for the machine. Use the space below to note the Model and Serial Number of your machine for future reference.

MODEL

SERIAL
NUMBER.....

PREPARE THE MACHINE FOR USE

(B) INSTALLING THE BATTERIES

WARNING!

Use extreme caution when working with batteries. Sulfuric acid in batteries can cause severe injury if allowed to contact the skin or eyes. Explosive hydrogen gas is vented from the batteries through openings in the battery caps. This gas can be ignited by any electrical arc, spark or flame.

WHEN SERVICING BATTERIES...

- Remove all jewelry
- Do not smoke
- Wear safety glasses
- Work in a well ventilated area
- Do not allow tools to touch more than one battery terminal at a time

CAUTION!

Electrical components can be severely damaged if the batteries are not installed and connected properly. Batteries should be installed only by qualified personal. Adjust the built-in battery charger (optional) to the type of batteries used (wet or maintenance free types).

1. Inspect the batteries prior installation for damage.
2. Disconnect the battery connector / charger plug.
3. Carefully lift the batteries into the battery compartment and arrange them exactly as shown on page 2.
4. Make sure that the cables from the charger plug are connected in the right sequence to the battery terminals.
5. Install the battery terminal covers provided with the machine.
6. Connect the battery connector/charger plug.

(C) INSTALLING THE BRUSH OR PAD HOLDER

WARNING!

Moving parts - disconnect the power supply connection from the batteries before servicing.

IMPORTANT!

1. If using a pad, install the pad on the pad holder first.
2. Raise the brush deck in the upper position.
3. Place brush/padholder under the raised brush deck.
4. Lower the brush pedal.
5. Touch the drive panel quickly so that the brush/padholder is engaged.

(D) INSTALL THE SQUEEGEE

1. Install the squeegee assembly onto the squeegee bracket.
2. Tighten the thumb nuts securely.
3. Attach the squeegee hose to the squeegee assembly.

(E) FILL THE SOLUTION TANK

1. Fill the solution tank with cleaning solution appropriate for the job.
2. Do not overfill the solution tank
3. Always follow the dilution instructions on the chemical container label.
4. The temperature of the cleaning solution must not exceed 40° C (100° F).

CAUTION!

Use only low-foaming, non-flammable liquid detergents intended for automatic scrubber applications.

(F) WET SCRUBBING

1. Lower the squeegee assembly.
 2. Lower the brush/pad by pushing the foot pedal.
 3. Position the solution flow control lever in the required position.
 4. Turn the master key switch*; brush switch and vacuum switch "ON". The solution will not come ON unless the brush switch is ON.
 5. Adjust the required working speed at the potentiometer*.
 6. Grip the operator handle bar and push the drive panel.
- Push drive panel forward = machine moves forward
 - Pull drive panel in reverse = machine moves in reverse

7. For best results, work at a slow walking speed or make a double scrub action.

* (BA 5321 with drive motor only)

CAUTION!

To avoid damaging the floor, the brush motor is automatically switched OFF when standing on the spot.

8. An automatic float shut-off blocks the vacuum system when the recovery tank is full. The machine will not pick up water with the float closed.
9. Move the machine to a designated "DISPOSAL SITE". Empty the recovery tank via the drain hose. Rinse the tank afterwards with clean water.

NOTE: Turn the brush switch OFF before raising the brush.

(G) TRACTION CONTROL

The forward traction can be adjusted with two set screws on the brush deck according to floor conditions and used brush or pad.

- Turn set screw on the centre counterclockwise = Machine moves to the left
- Turn left hand set screw clockwise = Machine moves to the right

(H) AFTER USE

1. Turn brush and vacuum switch OFF.
2. Raise the brush/padholder and the squeegee.
3. Empty solution & recovery tank into a designated "DISPOSAL SITE" and rinse with clean water.

- Turn quickly ON/OFF the brush motor so that the brush/pad holder is disengaged. Rinse it with clean water and store it dry.
- Remove the squeegee and rinse it with clean water.
- Check the maintenance schedule and perform any required maintenance before storage.
- Store the machine in a clean, dry place.

CAUTION!

(I) DO NOT TILT THE TANK BACKWARDS BEFORE EMPTYING IT

BATTERY DISCHARGE CONTROL

A deep discharge protection prevents batteries from being discharged too much.

How it works:

- Flashing RED LIGHT: Battery must be charged
- Constant RED LIGHT: Brush/Vacuum motor will stop

Machine should be used again after the batteries are fully charged.

(J) CHARGING THE BATTERIES

- Charge the batteries when the battery condition indicator is flashing RED.
- Push the connector from the charger into the battery connector / charger plug on the batteries. Follow the instructions on the battery charger.

CAUTION!

Do not allow the batteries to sit in a discharged condition. This reduces the battery life.

Check the batteries at least once a week.

WARNING!

Charge batteries in a well ventilated area.
Do not smoke while servicing the batteries.

CAUTION! (WET BATTERIES ONLY)

- Do not fill the batteries with distilled water before charging.
- To avoid damage to floor surfaces, wipe water and acid from the top of the batteries after charging.
- After charging, remove the vent caps and check the water level in each battery cell.
- Use distilled water to fill each cell to the level indicator (or to 10 mm (3/8") over the top of the separators). DO NOT over-fill the batteries!
- Acid can spill onto the floor if the batteries are overfilled.
- Tighten the vent caps. Wash the tops of the batteries with a solution of baking soda and water (2 tablespoons of baking soda to 1 liter / 1 quart of water).

(K) TROUBLESHOOTING

There is no power. Motors do not work

- Check cable connections
- Charge batteries
- Check charger
- Defective switch or motor
- Check fuses

Poor water pick up

- Recovery tank full, float shut-off closed
- Blocked vacuum system (squeegee hose and float cage)
- Disconnected or damaged vacuum hoses
- Squeegee blades worn or damaged
- Tank cover not seated properly
- Turbine pre-filter dirty

Squeegee streaks

- Debris under the squeegee blade
- Worn, nicked or torn squeegee blade

TRANSPORT

Transport the machine in a car, van or truck only in a locked position

MAINTENANCE SCHEDULE

Maintenance Item	Daily	Weekly	1/2 Yearly
Clean the recovery tank	X		
Clean the float screen	X		
Clean the solution tank	X		
Clean solution filter	X		
Clean the squeegee	X		
Inspect tanks and hoses	X		
Charge the batteries after use . . .	X		
Clean vacuum pre-filter	X		
Check battery water level		X	
Check brush/pad and padholder		X	
Check vacuum motor			X

PARTS AND SERVICE

Repairs, when required, should be performed by Advance service personnel using original replacement parts and accessories.

Call Advance for repair parts or service. Please specify the Model and Serial Number when discussing your machine.