

User instructions

Orbis - OB431500, OB501500, OB502000

Rotary floor cleaning machines

CAUTION - READ THESE INSTRUCTIONS BEFORE USING THE MACHINE

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IMPORTANT

READ THESE INSTRUCTIONS CAREFULLY AND RETAIN FOR FUTURE REFERENCE

1 Product information

These commercial floor cleaning machines are designed for the high speed polishing, spray cleaning and burnishing of hard floors in indoor areas. A passive dust control system is supplied as standard with each model. In addition a standard vacuum unit or a vacuum unit with HEPA filtration are available as accessories which can be easily be fitted to these machines making them specially suited for use in hotels, schools, hospitals, factories, shops, offices and rental businesses.

The following instructions contain important information about the machines and safety advice for the operator.

NOTE - To protect the machine from possible damage during transit, the machine base and handle are packed seperately. Ensure that both items are present and follow the simple assembly instructions to bring the machine into service.

Equipment must be operated, serviced and maintained in accordance with the manufacturer's instructions.

If in doubt contact the supplier of your machine.

1.1 Important Safety Advice

When using electrical equipment basic safety precautions should be followed including the following.

- Read all instructions carefully before use.
- Keep children and unauthorised persons away from the machine when in use.
- **Do not** leave the machine connected to the electricity supply when not in use, always remove the plug from the socket-outlet.
- Switch off the machine before removing the plug.
- When unplugging pull the plug, not the supply cord.
- Keep the power supply cord clear of moving parts. During operation hazard may occur when running the machine over the power supply cord.
- **Do not** operate the machine with a damaged supply cord or plug, or after the machine malfunctions or is damaged in any way. Contact an authorised Service Agent for repair or adjustment.
- The plug of the power supply cord must be removed from the socket-outlet before commencing cleaning of the machine or undertaking maintenance operations.
- The power supply cord is to be regularly inspected for signs of damage. If the power supply cord is damaged, it has to be replaced.
- **Do not** use where hazardous dust is present.
- **Do not** use in an explosive atmosphere.
- Take care when using a machine near the top of stairs to avoid overbalancing.

1.2 Guidelines for the operator

- Operators must be fully trained in the use of the machine in accordance with these instructions, able to perform user maintenance and the correct selection of accessories, i.e. brushes and pads etc.
- Operators should be physically capable to manoeuvre, transport and operate the machines.
- Operators should be able to recognise unusual operation of the machine and report any problems.
- Keep hands and feet well clear of rotating brushes.
- Wear suitable footwear to avoid slipping.
- Wear suitable clothing to keep dry and warm.
- Where possible implement job rotation and adequate rest periods to avoid continuous use of the same muscles.
- **Do not** smoke when using the machine.
- **CAUTION** - This machine is for dry use only and should not be used or stored outdoors in wet conditions.

1.3 Transporting the machine

CAUTION - THIS MACHINE IS HEAVY

Do not attempt to lift the machine without assistance. Incorrect lifting techniques may result in personal injury.

When transporting the machine the handle should be locked in the upright position.

2 Preparing for use

2.1 Fitting the handle

1. Carefully remove the machine base and handle from their respective packaging.
2. Check that the following items are present with the base:-
 - Vacuum skirt
 - Dust bag
 - M8 x 70 Bolt (3)
 - Nyloc Hex. nut (3)
 - Plain washer (6)
 - Spanner (2)
3. Take handle and remove tie from the knuckle pivot, ensuring that toothed gear does not fall out of housing when tie is removed.
4. With the handle held vertically and cable winder to the rear, lower pivot between the raised flanges on the machine base.
5. Align holes in pivot with those on the base and fit the three M8 bolts, washers and nuts, and tighten using the spanner and Allen key supplied (Fig.1).
6. Connect supply lead from handle to socket on side of motor housing.

2.2 Fitting the dust bag

- With the handle locked in the upright position, pull handle backwards to rest on the floor thereby raising the cleaning head.
- Remove the dust bag cover from the machine base by unclipping the rear edge of the cover and lifting off (Fig.).
- Fit the dust bag onto the hose connector on the skirt and arrange the bag within the base, and refit the dust bag cover.
- Check periodically to see whether the bag needs to be emptied or replaced.

2.3 Electrical connection

Before connecting the machine to the power supply, check that your supply voltage corresponds with that marked on the rating label on the handle of the machine.

UK only

The supply cord is fitted with a non rewirable plug containing a 13 amp fuse. Should the fuse require replacement it must only be replaced by a 13 amp fuse conforming to BS1362, and the fuse cover must be refitted. If the fuse cover is lost the plug **must not** be used until the correct replacement cover is fitted.

IMPORTANT - If the supply cord is damaged, it must only be replaced by a special cord available from the manufacturer or an authorised service agent.

WARNING -THIS APPLIANCE MUST BE EARTHED

3 Controls

The operating controls for all models are located on the handle (Fig.).

1 - Switch trigger, left hand

Used to switch motor ON and OFF. Can only be operated with handle in working position, and if left hand interlock button (2) has previously been depressed

2 - Interlock button, left hand

This must be depressed initially to enable left hand switch trigger to switch motor on.

3 - Switch trigger, right hand

Used to switch motor ON and OFF. Can only be operated with handle in working position, and if right hand interlock button (4) has previously been depressed.

4 - Interlock button, right hand

This must be depressed initially to enable right hand switch trigger to switch motor on.

5 - Handle adjustment lever

Used to adjust handle to comfortable working height. **Note:** For safety reasons the machine cannot be operated unless the handle is moved to a working height.

Cable winder

Used to hold supply cord in place on handle when machine is not in use.

Neon indicator (on handle)

Lights when the machine is connected to the power supply.

3.1 Fitting pads

WARNING - This appliance has been designed for use with the pads specified by the manufacturer. The fitting of other pads may affect its performance and safety.

Always ensure machine is unplugged before fitting or removing parts.

- Raise cleaning head by pulling handle backwards to rest on the floor.
- Unscrew central pad lock and remove with washer.
- Press cleaning pad onto drive disc, refit washer and pad lock and tighten (Fig.).
- Return machine to upright position.
- **IMPORTANT - Never allow the cleaning head to rest on the pad when not in use.**

3.2 Adjusting the handle height

Select the most comfortable handle height using the adjustment lever as previously described (see **Controls**) and lock in position.

4 Operation

4.1 Starting the machine

- Fully unwind the supply cord from the handle and plug in to a convenient socket out let. The neon indicator on the handle should light showing that power is available.
- With the handle set at a convenient working height and with both left and right hands on the handle, depress both interlock buttons with the thumbs and squeeze both switch triggers to start the machine (Fig.).
- **WARNING - Never start the machine without pads fitted.**
- Once the machine has started the push buttons should be released. The machine will operate with either or both of the switch triggers held.
- To stop the machine release both switch triggers.
- Normal movement of the machine is in a **forward and backward** direction.

4.2 Polishing

- Fit pads suitable for the speed of the machine and the surface to be polished (see **Accessories**).
- Apply polish to the floor in accordance with the manufacturers instructions.
- **Do not keep the machine rotating on one spot for more than 5-10 seconds, as this could cause overheating and damage the floor surface.**

4.3 The vacuum unit

NOTE - The vacuum unit is supplied as an accessory item complete with attachments and fitting instructions. Two versions are available with either standard filtration or HEPA filtration.

The vacuum unit combined with the vacuum skirt provides full dust control, eliminating the need to post dust the floor. The unit is designed to fit readily to all models.

IMPORTANT - The vacuum unit is NOT suitable for any form of wet cleaning.

4.4 Fitting the vacuum unit

- Stand the machine upright, and fit the vacuum unit support bracket and top support plate to the handle tube in the specified position. (Refer to instructions supplied with the unit).
- Take the vacuum unit and insert the two pegs on the back into the slots in the support plate at the same time engaging the bottom of the unit with the groove in the support bracket.
- Fasten the flexible strap on the back of the unit onto the stud provided.
- Push the length of flexible hose onto the vacuum unit and connect to the vacuum skirt.
- Plug the electrical lead from the vacuum unit into the socket situated on the left side of the handle moulding. The machine is now ready for use.

4.5 Using the vacuum unit

The switch controlling the vacuum unit is located on the back of the unit. The OFF position is marked O.

IMPORTANT - For maximum suction the sliding shutter on the top of the unit must be closed.

Dust collected by the unit is contained within the dust bag located behind the front cover. A 'bag full' indicator light glows when the dust bag needs replacing. To replace a dust bag, switch off vacuum unit, release front cover catch and lift off cover. Remove and dispose of used bag. Fit new bag and replace front cover.

A vacuum inlet filter is situated below the dust bag to protect the vacuum motor from spilled dust. Inspect the filter regularly when changing bags and clean as necessary. To clean, withdraw the filter from the unit and wash in warm water and dry thoroughly.

IMPORTANT - The filter must be completely dry before replacing it in the machine. Never operate the machine without the inlet filter.

In order to replace a **HEPA** filter the vacuum unit must be removed from the handle of the machine. Release catch on the filter cover, unclip filter cartridge and discard. Fit new filter and refit cover. Refit vacuum unit onto handle. **IMPORTANT - The HEPA filter should be replaced after a maximum of three dust bag changes.**

5 Storage

Always unplug and wipe down and dry the machine after use. The machine should normally be stored with the handle in the fully upright position.

Wrap supply cord around the handlebar and cable winder ensuring that the plug is not trailing on the floor. Store the machine in a dry indoor area only.

Never store the machine with a pad fitted as this causes distortion, and results in instability during operation.

6 Maintenance

WARNING - Before undertaking maintenance operations or adjustments switch off machine and unplug from the electricity supply.

The machine requires minimum maintenance apart from the following checks by a trained operator.

- **Supply cord** - Regularly inspect sheath, plug and cord anchorage for damage or loose connection. Only replace the supply cord with the type specified in these instructions.
- **Vacuum unit** - All dust bags must be changed regularly, and hose checked for blockage to avoid unsatisfactory results.

7 After sales service

Should you require after sales service please contact the supplier from whom you purchased the machine, who will arrange service. Repairs and servicing of Truvox products should only be performed by trained staff. Improper repairs can cause considerable dangers to the user.

Enquire about the Truvox low cost and efficient Maintenance Contract.

8 Guarantee

Your product is guaranteed for two years from the date of original purchase, or hire purchase, against defects in materials or workmanship during manufacture. Within the guarantee period we undertake at our discretion, to repair or replace free of charge to the purchaser, any part found to be defective, subject to the following conditions.

CONDITIONS

1. Claims made under the terms of the guarantee must be supported by the original invoice/bill of sale issued at the time of sale, or the machine Serial No.
2. For claims under this guarantee contact the supplier from whom you purchased the product who will arrange the appropriate action. Do not initially return the product as this could result in transit damage.
3. Neither Truvox nor its distributor shall be liable for any incidental or consequential loss.
4. This guarantee is governed by the laws of England.
5. This guarantee does not cover any of the following:
 - Periodic maintenance, and repair or replacement of parts due to normal wear and tear.
 - Damage caused by accident, misuse or neglect, or the fitting of other than genuine Truvox parts.
 - Defects in other than genuine Truvox parts, or repairs, modifications or adjustments performed by other than a Truvox service engineer or authorised service agent.
 - Costs and risks of transport relating directly or indirectly to the guarantee of this product.
 - Consumable items such as, brushes, drive discs, filters and vacuum skirts.

This guarantee does not affect your statutory rights, nor your rights against the supplier arising from their sales or purchase contract.

Truvox International Limited policy is one of continual product development and we reserve the right to alter specifications without prior notice.

9 Technical specification

All models : Class I construction. Enclosure to IPX4. Fitted with 20m supply cord type H05VV-F 3x1.0mm² (10A), and non rewirable plug.

Model		OB431500	OB501500	OB502000
Working width	cm	43	50	50
Pad diameter	cm	43	50	50
Pad pressure	gm/cm ²	5.5	4	4
Voltage a.c. - 50Hz	V	230	230	•
Voltage d.c. - 50/60Hz	V	•	•	230/110/100
Motor speed	rpm	1500	1500	2000
Motor rating	W	1100	1100	1100
Handle height	cm	125	125	125
Weight	kg	34	34.5	36
Noise level (Passive vacuum) (see note 1)	dB(A)	65	65	69
Noise level (HEPA Vacuum) (see note 1)	dB(A)	75	75	75
Handle vibration (see note 2)	m/s ²	< 2.5	< 2.5	< 2.5
Vacuum bag capacity	ltr	1	1	1

- 1 - Noise levels measured at a distance of 1 metre from machine and 1,6 metres above floor, when scrubbing a hard floor. Measurements recorded using a hand held meter.
- 2 - Handle vibration does not exceed 2,5 m/s², when operating on any surface with brush or pads. Measurements recorded by an independent test laboratory.

10 Accessories

Item	Part No. OB431500	Part No. OB501500	Part No. OB502000
Vacuum skirt	05-3766-0000	05-3767-0000	05-3767-0000
Paper bag (5 pack) (passive system)	06-0207-0000		
Micro filter cloth bag (passive system)	03-6703-0000		
Dust collection box	03-6705-0000		
Standard vacuum unit and hose (230V)	05-3771-0000		
HEPA vacuum unit and hose (230V)	05-3769-0000		

IMPORTANT : Genuine accessories are only available from authorised Service Agents or Truvox Customer Service Dept.

11 Fault diagnosis

The following simple checks may be performed by the operator.

Trouble	Reason	Remedy
Machine not working, neon indicator not lit.	- Lack of voltage/electrical supply.	- Check fuse *, supply cord, plug and socket outlet.
Machine not working, neon indicator lit.	- Switch interlock incorrectly operated. - Loose connection to motor.	- Check operating procedure in instructions. - Check motor lead connector is fully inserted into motor socket.
Vacuum unit not working.	- Loose connection to handle.	- Check connector is fully inserted into handle socket.
Vacuum unit lacks suction.	- Dust bag full. - Blocked or split hose.	- Replace dust bag. - Clear blocked hose or replace split hose.
Machine wobbles or vibrates excessively.	- Pad worn or damaged. - Pad dirty. - Pad loose.	- Renew pad. - Clean the pad. - Tighten pad lock.

* If the fuse blows several times, the machine should be checked by an authorised Service Agent.

12 Declaration of conformity

EC Declaration of conformity

We, Truvox International Ltd.

of Third Avenue
Millbrook Trading Estate
Southampton SO15 0LE
England

declare that the machinery

Make : Rotary floor cleaning machines
Type : Orbis
Model : OB431500, OB501500, OB502000

Serial Number :
Year of Construction : 2002

has been manufactured using the following transposed harmonized European Standards and technical specifications.

BS EN 60335-1 and BS EN 60335-2-67

and is in conformity with EC Directives, 98/37/EC, 73/23/EEC and 89/336/EEC and all amendments.

Signed in : SOUTHAMPTON, England

on the XXth day of February 2003

Signature :

Name : R S Papp
Position : Operations Director

