

Cimex / Tornado Escalator Cleaner

User instructions

Parish-Supply.com
Syracuse, NY 315-433-9031
www.parish-supply.com



Model X46

Escalator and Travelator cleaner

CAUTION - READ THESE INSTRUCTIONS BEFORE USING THE MACHINE



Fig 1



Fig 2

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IMPORTANT

READ THESE INSTRUCTIONS CAREFULLY AND RETAIN FOR FUTURE REFERENCE

1 Product information

This commercial escalator cleaning machine is designed to clean all types of escalator and travelator treads, and is ideally suited for use in airports, shopping centres, retail stores, hotels and Underground railway stations.

The machine is intended for indoor use only in dry conditions.

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

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.

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 brushes.
- Operators should be physically capable to manoeuvre, transport and operate the machine.
- 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.
- **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.

To move the machine around, pull the handle backwards to bring the wheels into contact with the floor enabling the machine to be moved easily.

2 Preparing for use

1. Carefully remove the machine and brushes from their respective packaging.
2. Check machine for transit damage. Do not use machine if damaged.
3. Raise handle to working position.

2.1 Fitting the brushes

WARNING - This appliance has been designed for use with the brushes specified by the manufacturer. The use of other brushes may impair safety.

Always ensure machine is unplugged before fitting or removing parts.

- Release the two locking pins securing the top cover and raise the cover to rest against the handle.
- Disconnect the two hoses from the brush cowl.
- Tip the cowl forward to reveal the brush spindles (Fig.1).
- Remove the brush retaining clips from the spindle ends, and slide the brush on to the spindle engaging the narrow slot with the drive nib and refit the retaining clips.
- Close the brush cowl and reconnect the two hoses.
- Close the top cover and re-engage the locking pins.

2.2 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 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

We recommend the use of an RCD (Residual Current Device) or an ELCB (Earth Leakage Circuit Breaker) between the mains socket and the supply cord plug to protect against electric shock.

3 Controls

The operating switches are located on the top of the machine.

1 - Switch, vacuum motor

Used to switch vacuum motor ON and OFF.

2 - Switch, brush motor

Used to switch brush motor ON and OFF.

NOTE - Both switches contain current overload cut-outs. If tripped they will reset automatically after a few moments. If tripping repeatedly, refer to **Fault diagnosis** section.

4 Operation

The Cimex X46 machine is designed to clean varying widths of escalator and will therefore only clean part of the width at a time. After each complete pass, move the machine across the escalator to overlap previously cleaned area until the full width has been cleaned.

4.1 Cleaning the escalator

- Wheel the machine to the bottom of the escalator.
WARNING - Never attempt to use the machine at the top of an escalator.
- Fully unwind the supply cord and plug in to a convenient socket outlet.
- Ensure that the escalator is moving **away** from the machine, reverse the direction of the escalator if necessary.
- Position the machine on the escalator such that the rest bar situated just in front of the wheels sits on the non-moving comb of the escalator.
- Switch on the vacuum motor, followed by the brush motor.
- **WARNING - Never start the machine without the brushes fitted.**

4.2 Stain and spot removal

For degreasing and stain removal the escalator may be lightly hand sprayed with 'Escaclean' chemical.

IMPORTANT - DO NOT SOAK THE ESCALATOR

4.3 Dust bag replacement

- Release the two locking pins and raise the top cover.
- Push the top edge of the cardboard collar of the bag towards the rear of the machine until the bag is released from the vacuum tubes, and carefully remove the bag for disposal.
- Insert new bag pushing the rubber seals firmly over the tube ends until the cardboard collar is flat against the machine wall (Fig.2).
- Close the top cover and locking pins.

The dust bag should be regularly replaced, and the hoses checked for blockages. If a bag bursts ensure that the filter is removed and cleaned before fitting a new bag. **IMPORTANT - The filter must be dry before refitting.**

5 Storage

After use always wipe down and dry the machine. Remove the brushes and clean them under running water and allow to dry. **IMPORTANT - Never store the machine with the brushes fitted as this will damage the brushes.** Check dust bag condition and clean filter as required.

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

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.
- **Dust filter** - Check filter condition when changing a bag and clean or replace as necessary.

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 Technical specification

Machine is of Class I construction. Enclosure to IP30.

Model - 230 V ~ 50 Hz., fitted with supply cord type H05VV-F, 3 x 1.0mm² (10A), and plug.

Model - 110 V ~ 50 Hz., fitted with supply cord type H05VV-F, 3 x 2.5mm² (25A), and plug.

Model		X46
Brush motor	W	190
Vacuum motor	W	2 x 750
Brush speed	rpm	290
Brush diameter	cm	15
Working width	cm	46
Length	cm	89
Height	cm	23
Weight	kg	44
Sound pressure level (see note 1)	dB(A)	79
Handle vibration (see note 2)	m/s ²	< 2.5
Supply cord length	m	15

1 - Sound pressure level measured at a distance of 1 metre from machine and 1,6 metres above floor.

Measurements recorded using a hand held meter. For prolonged operation the wearing of ear defenders is recommended.

2 - Handle vibration does not exceed 2,5 m/s², when operating on any surface.

Measurements recorded by an independent test laboratory.

9 Accessories

Item	Qty	Part No.	Application
Nylon brush set	2	05-4096-0000	Regular daily maintenance
Tynex brush set	2	05-4097-0000	Periodic deep cleaning (see note1)
Disposable paper bags (10 pack)	1	02-4372-0000	Regular dust collection
'Escaclean' degreasant (4 x 5litre)	1	02-4404-0000	Degreasing and stain removal

1 - CAUTION - Tynex brushes are very aggressive, and only suitable for occasional use on aluminium escalators only. **Do not use** on escalators with a coated surface as damage may result.

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

10 Fault diagnosis

The following simple checks may be performed by the operator.

Fault	Reason	Remedy
Motors not working.	Lack of voltage/electrical supply. Current overload cut-out operated in switch.	Check fuse *, supply cord, plug, socket outlet and circuit breaker. Cut-out will reset automatically after a few minutes. If cut-out operates repeatedly check points below.
Machine stalls during operation.	Damaged brushes. Loose plug connection.	Replace brushes. Check plug is fully inserted into mains socket.
Machine vibrates.	Worn brushes. Brushes incorrectly fitted. Brush cowl glide bars incorrectly set. (Fig.1 / 1).	Replace brushes. Refer to fitting instructions. Check height adjustment.
Vacuum motor labouring.	Dust bag full. Filter restricted.	Replace bag. Remove and clean.

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

11 Guarantee

Your product is guaranteed for one year 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, dust bags and filters.

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

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

EC Declaration of conformity

We, Truvox International Ltd.

of Third Avenue
Millbrook Trading Estate
Southampton SO15 0LE
England

declare that the machinery

Make : Escalator and Travelator cleaner
Type : Cimex
Model : X46

Serial Number :
Year of Construction : 2004

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

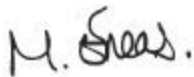
BS EN 60335-1 and BS EN 60335-2-67

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 30th day of July 2004

Signature :



Name : M R Eneas
Position : New Product Development Manager



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