

**Speedshine 1500E
Polisher Floor machine
with Vacuum**



Owners Operating Guide

**Hako Australia
90 Wetherill St, Silverwater,
NSW, Australia 2128
hksales@hakoaustralia.com.au**

SAFE AND PROPER USE OF THIS MACHINE

Make sure that this manual is read and understood by the operator. Only trained operators should operate this machine once they are familiar with the adjustments and correct method. When using this machine, basic safety precautions should always be observed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE.

1. **DO NOT** leave this machine unattended when it is plugged in. **Unplug** from the outlet when not in use and before fitting or removing the brush.
2. **DO NOT** pick up building materials such as plaster dust, wood shavings, sand etc.
3. Use this machine only as described in this manual. Use only manufacturer's recommended accessories including the pads.
4. **DO NOT** use with a damaged electric cable.
5. **DO NOT** use if this machine has been left outdoors and exposed to rain or water. Return the machine to an authorized dealer for examination.
6. **DO NOT** pull or carry the machine by the electric cable. **DO NOT** use the cable as a handle, close a door on the cable, or pull the cable around sharp edges and corners.
7. **DO NOT** run machine over the cable.
8. **KEEP** the cable away from heated surfaces.
9. **DO NOT** unplug by pulling on the cable. To unplug, grasp the plug, not the cable. Wind the cable from the machine end not from the plug, this will prevent the cable from twisting and extend its life.
10. **DO NOT** handle the plug or the machine with wet hands.
11. **Keep** hair, loose clothing, fingers, rags, steel wool and feet from openings, rotating brush and other moving parts. **Make sure no openings are blocked that will restrict airflow.**
12. **DO NOT** pick up hot coals, cigarette butts, matches or any hot, smoking or burning objects.
13. **DO NOT** pick up or run the brush over hard or sharp objects such as glass, nails, screws, coins, etc.
14. **DO NOT** use without all the filters in place. Use **ONLY** filters and accessories provided by the manufacturer. Failure to do so will void the warranty.
15. **Switch off** all controls before plugging or unplugging this machine into an electrical outlet.
16. **DO NOT** pick up flammable or combustible materials or use this machine in the presence of explosive liquids or vapours.
17. **DO NOT** use in an enclosed space filled with vapours given off by oil based paints, paint thinners, flammable dust, powdered milk, or other explosive or toxic vapours. **THIS IS NOT AN EXPLOSION PROOF MACHINE.**
18. Always store this machine indoors.

This appliance is not intended for use by young children or infirm persons, without proper supervision. Young children should be supervised to ensure that they do not play with this appliance.

DO NOT expose to rain and DO NOT pick up water or other liquids.

This machine is insulated for your protection. However, a shock can occur if the electric cable is damaged. If the supply cable is damaged, it must be replaced by the manufacturer or its agent or retailer to ensure the correct type of approved cable is supplied in order to avoid a hazard. Make sure that the cable is kept clean to help highlight cable damage.

Delivery and Assembly

Packaging

This machine is packed in two cartons. Carton 1 contains the handle assembly and carton 2 contains the base assembly with an Ultra High Speed pad attached and the operating guide.

To remove the base assembly cut the side of the carton where the wheels are located. Then slide the base assembly out of the carton. Remove handle from the carton by sliding out of the carton.

Handle Assembly

Tools required to assemble handle to the base:

2 x 17mm spanners, 2 x 13mm spanners and a hammer.

Remove tape from the lower end of the handle and from the electric cable. Be careful not to cut the electric cable.

Remove the M10 nut, washers and M10 x 120mm bolt from the main handle hinge. Fit handle hinge between the wide base lugs. Fit washer under M10 bolt head then locate the M10 bolt and washer into the lug from the **hose side (RHS from base rear) see picture 1**. Tap bolt head with a hammer until it is through the second lug. Fit washer and M10 nut to the bolt and tighten until firm.

Remove the M8 nut, washers and M8 x 50mm bolt from the support handle hinge. Fit support handle hinge between the narrow base lugs. Fit washer under M8 bolt head then locate the M8 bolt and washer into the lug from the **hose side (RHS from base rear) see picture 1**. Tap bolt head with a hammer until it is through the second lug. Fit washer and M8 nut to the bolt and tighten until firm.

Electrical Connection

Locate 4 pin socket from the handle and align to the 4 pin receptacle on the vacuum housing so that the locators engage (see picture 2). Push in socket and turn the locking nut on the socket until tight. If the locking nut is not engaging then pull back on the socket a fraction and then turn. Tighten socket nut until hand tight.



Picture 1



Picture 2

Adjustments and Operating

1. Handle Adjustment

To adjust handle height, lift the handle clamp open (see picture 3) and then adjust the handle to waist height. Once handle is in a comfortable position lock the handle clamp close. (see pictures 4 and 5)

If the handle requires the lock position to be tighter to prevent movement, then lift the handle clamp open and rotate the handle clamp clockwise one turn and then lock the handle clamp closed (see picture 6). If needed repeat this procedure. **HOWEVER DO NOT OVER TIGHTEN.**



Picture 3



Picture 4



Picture 5



Picture 6

2. Pad Size

Use a 53cm Ultra High Speed pad.

Fitting the pad holder

MAKE SURE MACHINE IS NOT PLUGGED IN. Bring the Handle to the upright locked position. Standing behind the machine, lay the machine back onto the floor. Locate the **pad lock adapter** into the centre of the pad. (see picture 7) and push the **pad lock adapter** through completely (see Picture 8). Then place the pad onto the pad driver locating and centering the **pad lock adapter** to engage the lock plate. Turn the **pad lock adapter** counter clockwise as indicating on the adapter to close (see Picture 9). Turn the pad lock adapter until it is tight and compresses the pad in the center (see Picture 10). Return the machine to an upright position.

Note: The Origin HS Suction Polisher is supplied with an Ultra High Speed Pad that is suitable for this machine. Other types of High Speed Pads can be used however the wrong type could effect the result on the floor and can cause increased amperage overload on the motors. Seek advice from your Dealer.



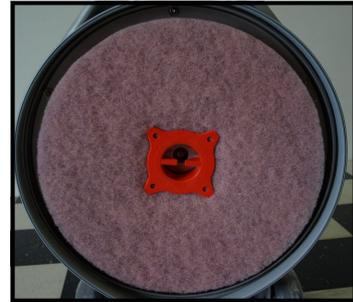
Picture 7



Picture 8



Picture 9



Picture 10

3. Once machine is in the upright position. Adjust the handles to a comfortable position to enable the pushing of the machine in a straight line, usually just below your waist. Check that the skirt is sitting evenly on the floor (see Picture 11). Then turn the pad pressure knob at the front of the base (see Picture 12 & 13) so that there is good pad contact with the floor at the front of the machine. Break a new pad in for a few minutes before increasing the pressure as this will help to increase the life of the pad. As the pad compresses over time increase the pad pressure accordingly.



Picture 11



Picture 12



Picture 13

4. Controls and Indicator Light

At the top of the handle switch box is a light (see Picture 14). that indicates electric power to the machine when lit. The front of the switch box has two push buttons which are a safety locking device to prevent switch levers from accidentally activating (see Picture 14). Under each handle grip are the switch levers that activate the switch. On the side of the switch box is the vacuum switch (see Picture 17).

The label on the front of the switch box indicates that the push button lock must be pushed in (see Picture 16 & 18) before lifting the switch lever. Each button unlocks the switch lever next to it. To activate the machine either switch lever or both together will start it. (See Pictures below).



Picture 14



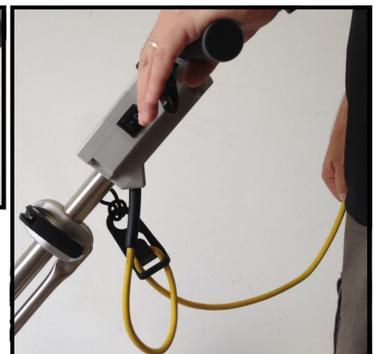
Picture 15



Picture 16



Picture 17



Picture 18

Before switching the machine to on, make sure you have the cable laying away from the brush area and know where the cable is at all times.

5. Electric Cable Maintenance

Unplug electric cable from the wall socket and wind the cable **starting from the machine end of cable - not the plug end**. This will help prevent the cable from twisting and causing premature failure. Wind the cable around the hook and the handle (See Picture 18 & 19). Check for any **damage to the cable** while winding it. If there is any damage do not use the machine until the cable is replaced.

Make sure the cable is looped through the cable restraint (See Picture 20).



Picture 18



Picture 19



Picture 20



Picture 21

6. Motor Thermal Overload Switch and Vacuum Motor Thermal Cut out

The Brush motor is fitted with a thermal overload to protect it. This switch will activate if the motor gets over loaded, after allowing time for the motor to cool, the overload switch can be reset by pushing the button (See Picture 21). Motor overheating is usually caused by an extension cord, the wrong pad used (i.e. not an ultra high speed pad) for the floor surface or too much pad pressure.

The Vacuum motor is protected by an **automatic** thermal cut out and will **reset itself** when the motor cools down. The cause for overheating of the vacuum motor is usually attributed to a blockage in the hoses or the filter bag needs cleaning or replacement.

7. Removal of the Lid

First remove the hose attached to the lid by turning Clockwise (See Picture 22 & 23). To remove the lid, place a finger under **the tab in front** of the unit (see picture 24). Pull tab out and up slightly to disengage tab from the body and to clear the black ring on the filter bag. Grab the lid then pivot back and lift up.



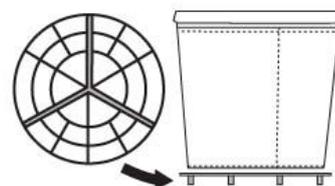
Picture 22



Picture 23



Picture 24



Bag Support

Diagram 25

Fitting of the Lid

The lid needs to be fitted so that the elbow (where the hose fits on) is in the correct position to engage the hose. To fit the lid, make sure the filter bag is located inside the canister so that the black ring on the filter bag is flush with the top of the canister. Then locate the lid over the filter bag ring so that the tabs on the lid are in line with the indents on the canister. Push lid firmly down so that tabs lock into position. Then fit hose by inserting the hose cuff and turning counter clockwise to a locked position.

ALWAYS MAKE SURE that the bag support and the white filter disc are fitted under the filter bag. (See Diagram 25).

Machine Operation

- After fitting the pad (IF PAD IS NOT FITTED DAMAGE CAN BE CAUSED TO THE FLOOR IF THE MACHINE IS USED AND CAUSE DAMAGE TO THE PAD DRIVER).
- Adjust the handle to a comfortable position.
- Adjust the pad pressure.
- Check that the electric cable is plugged in and that the indicator light on the switch box is lit. Make sure the cable is away from the pad.
- Push in the safety lock button and lift the switch lever.
- Switch on the Vacuum motor.

Machine Movement

The machine moves by pushing in a straight line or it can swing by turning the handle.

Maintenance and storage

Filter Bag

1. Always empty the filter bag at the end of a shift even if the bag is not full.
2. Make sure the bag support stand is in position at the bottom of the canister under the filter bag (see Diagram 18). **N.B.** This support stand **must always** be in position to maintain vacuuming performance. The secondary filter disc must be used and sits on top of the bag support.
3. Check the filter bag for holes or tears. Replace the bag if torn or damaged. Failure to do so could result in motor damage.
4. **The cleaner the filter bag is kept, the better the vacuum performs.** The filter bag can be cleaned by turning the bag inside out and using a soft banister brush to remove dust or use a vacuum cleaner.
5. **DO NOT WASH THE FILTER BAG.**
6. Consider using a disposable liner bag—it will serve as an extra filter and keep the filter bag clean.

Electric Cable

1. Unplug the electric cable when the machine is unattended or not in use, or when cleaning the machine or changing the brush or pad.
2. Wind the electric cable from the machine end to prevent the cable from twisting. Wind the cable around the handle and the cable hook. While winding the cable have a rag in one hand to clean it and check for damage.
3. Replace the electric cable if there is any damage or badly kinked. The cable must be replaced with the manufacturer's original cable by an authorised dealer.

Skirt Maintenance

Keep the skirt clean of debris and dirt and check that the skirt chute opening is clear of debris. Also check that the hose is clear of debris.
Replace the skirt if torn or damaged.

Pad Care

Replace the pad when worn or the pad starts to de-laminate.
Excessive amounts of floor finish or dirt collected on the pad can cause drag and overload the machine.
Keep the pad clean after use.

Machine Transportation

To transport the machine, ensure that the handle is in the upright position and that the wheels are fully extended in the down position. Stand behind the machine handle and tilt the machine backwards and then move the machine. See picture 27.

Whenever possible avoid lifting the machine unless there are two people.

Do not transport the machine up stairs by pulling on the handle as it can cause injuries to the operator.

When lifting the machine operators should be trained in lifting and in handling techniques.



Picture 27

WARRANTY

Origin Cleaning Equipment Pty Ltd (Origin) warrants to the original purchaser that this product is free from defects in workmanship and materials under normal use and service for a period of 12 months from date of purchase, provided such claims are submitted through and approved by Origin authorized dealers. Origin will under warranty repair or replace without charge, except for transportation costs, parts that fail under normal use and service when operated and maintained in accordance with the applicable operation and instruction manuals.

This warranty does not apply to normal wear, or to items whose life is dependent on their use and care, such as filter bag, floor tool, hose assembly and wand.

All warranted items become the sole property of Origin Cleaning Equipment Pty Ltd.

This limited warranty is in lieu of all other warranties, expressed or implied, and releases Origin from all other obligations and liabilities. Origin is not responsible for costs for repairs performed by persons other than those specifically authorized by Origin. This warranty does not apply to damage from transportation, alterations by unauthorized persons, misuse or abuse of the equipment, or damage to property, or loss of income due to malfunction of the product.

If a difficulty develops with this product, you should contact the dealer from whom it was purchased.

Origin Cleaning Equipment Pty Ltd
PO Box 1340
Penrith NSW 2750
origin@ozemail.com.au