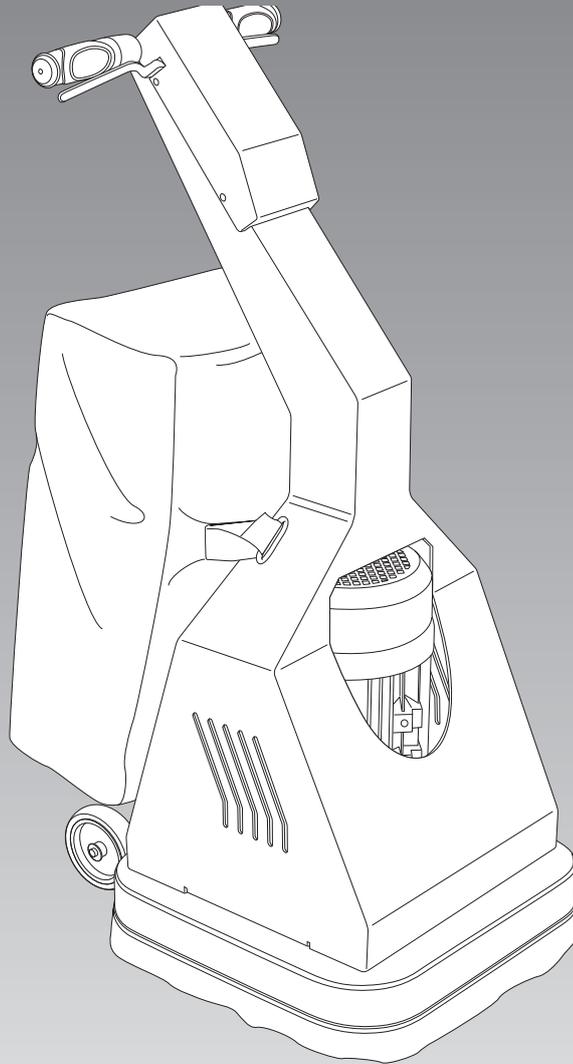




BISON PRODUCTS

www.bisonproductsltd.com



SandGliderTM

Instruction Manual

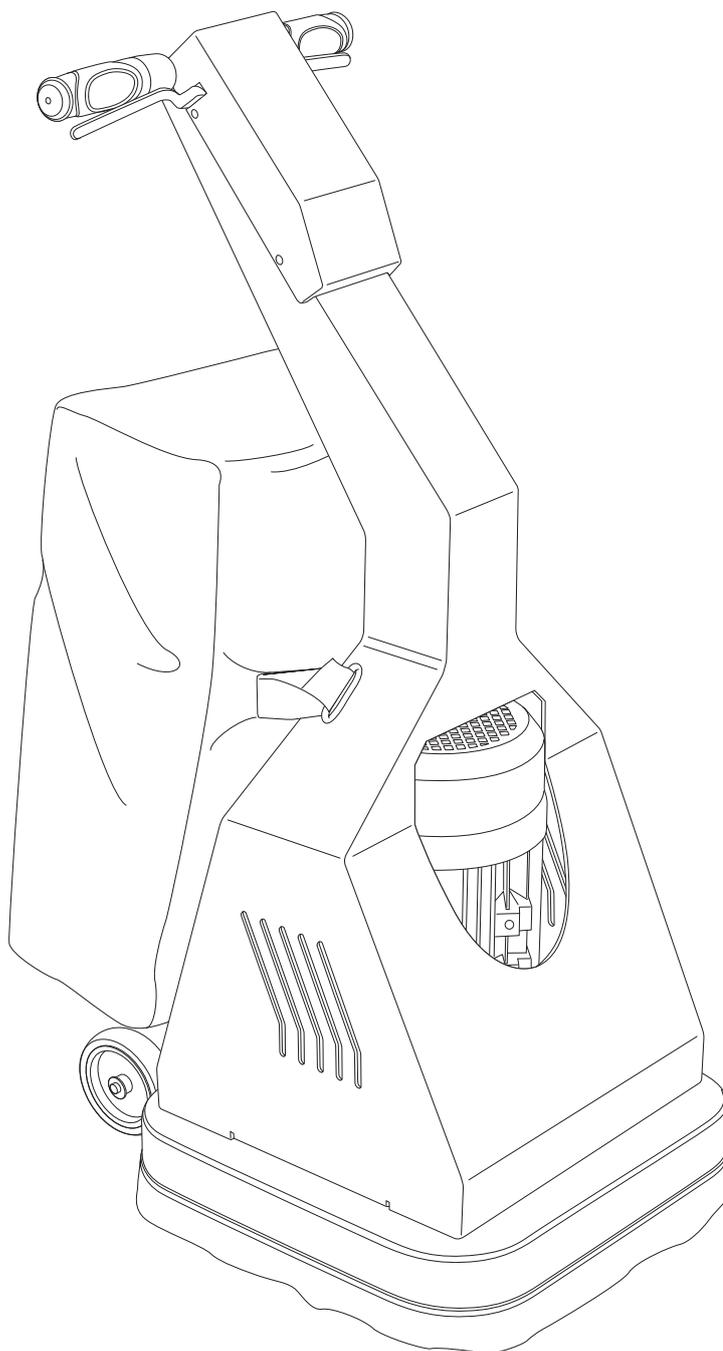


Thank you for purchasing a Bison Products SandGlider.

Before using this equipment and to avoid personal injury, carefully read and understand these instructions.

If there is anything you do not understand, **DO NOT** use this equipment, contact your supplier for advice.

Regular inspection, servicing and periodic maintenance will ensure many years of trouble free operation.



Additional copies of this manual may be downloaded from:
www.bisonproductsltd.com

CONTENTS	PAGE
Introduction	3
Technical Data	3
General Safety	4
Risk Assessment	4
Electrical Safety	4
Hand-Arm Vibration	5
Main Wiring	5
Work Area Preparation	5
Know Your SandGlider	6
Controls	7
Fitting A Sanding Disc	7
Dust Control	7
Operating The SandGlider	9
Sanding Technique	10
Transporting The SandGlider	11
Lifting	11
Storage, Cleaning & General Care	11
Inspection & Maintenance	11
Disposal	11
Warranty	12
Parts Diagrams	13
Parts Listing	14
CE Certificate	16

DESCRIPTION

The **SandGlider** utilises an offset rotating head system which helps to reduce the risk of gouging the floor surface, a problem long associated with traditional drum type Sanders.

Fitted with a set of four, 150mm offset rotating heads, the **SandGlider** is able to sand a floor right up to the edge, eliminating the need for an edging sander. When fitted with polishing pads, the **SandGlider** can be used to polish the floor.

Sanding discs and polishing pads are attached to the heads using the Velcro system and are available from most DIY and trade suppliers, removing the need to purchase specially made sanding discs. Removing and fitting a sanding disc takes seconds, with no requirement for any specialist tools.

The built in dust collection system is capable of retaining up to 95% of the dust created during the sanding process.

TECHNICAL DATA**WEIGHT**

WEIGHT43 kilos

NOISE AND VIBRATION

NOISE.....77.8 dB(A)

Vibration9.2ms²

DIMENSIONS

Base Length505mm

Base Width.....395mm

Height at Handle990mm

ELECTRICAL SPECIFICATION

Voltage220v / 240v

Rated Power Input.....1,500W

Amps8.62

RPM.....2810

Protection ClassI

IP RatingIP44

**Manufactured in the UK by Bison Products Ltd,
Leyland, Lancashire.**

GENERAL SAFETY

Make sure you are aware of all safety requirements and that this equipment is suitable for the task you wish to undertake. Only use the SandGlider for its intended purpose, for sanding and polishing timber flooring.

The work area must be cordoned off from children and bystanders. **DO NOT** work near flammable materials.

This equipment must not be operated by persons who are under the influence of alcohol or drugs. **DO NOT** use this equipment if you are tired or unwell.

Personal Protective Equipment

For your safety you are advised to wear the following PPE.

A suitable mask to protect your respiratory system.

Ear defenders or ear plugs.

Gloves to protect your hands.

Safety boots.

Suitable eye protection.



Do not wear loose jewellery or clothing that may get in the way or become trapped in the mechanism. Always tie back long hair.

Inform everyone in the work area of what you are doing.

Keep the SandGlider's air vents clear of all obstructions. Only operate this equipment in a well lit and ventilated area.

GET FAMILIAR! You must understand how to switch this machine **OFF** in an emergency.

The SandGlider must not be used for sanding asbestos or similar hazardous material.

The SandGlider can cause injury, keep hands and feet clear of the sanding area at all times.

Always switch **OFF** the SandGlider and isolate it from the power supply before cleaning, making adjustments or when left unattended.

The SandGlider is **NOT** designed for use on

Veneered Parquet or Overlay Flooring with a veneer finish.

DO NOT move or carry the SandGlider by its power supply cable.

Carefully inspect the SandGlider before use. If anything is damaged or missing or if there is any doubt about its condition, **DO NOT USE IT.**

Keep these instructions in a safe place where they will be readily available for future reference.

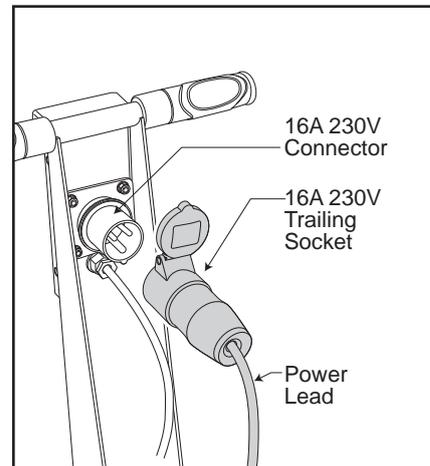
RISK ASSESSMENT

It is the users' responsibility to carry out a full risk assessment before using the SandGlider.

ELECTRICAL SAFETY

The SandGlider requires a separate three core power supply lead which **MUST** be fitted with a trailing 16A 230 volt female socket. The socket simply connects to the captive male plug fitted to the underside of the main control handle.

Note that the maximum overall length of cable you can use with this machine is 30M and any extension used must be at least 2.5mm 3 core.



Fully unwind and loosely coil all power supply cables and extension leads. Position them away from the equipment where they will be protected from water,

sharp objects and where they will not pose a trip hazard.

For additional safety, always use an RCD, or power the equipment from a mains circuit with a built in RCD.

Keep the equipment dry and protect this equipment from damp or wet conditions.

HAND-ARM VIBRATION

Hand-Arm vibration syndrome is a disease that can lead to permanent disability.

This can be caused by prolonged use of any tool or powered equipment that vibrates during operation.

Under test conditions, the SandGlider produced an average emission value of $9.2 (\pm 1.0) \text{ ms}^2$.

It is recommended that the operator is limited to 2 hours and 20 minutes hands on, power on during a working day. This is based upon the assumption that the operator will NOT be encountering any other form of HAV source.

As a precaution, stop working if you experience discomfort or numbness when operating the equipment.

MAIN WIRING

Class I Single Insulated Equipment, this equipment must be earthed.

The wires in the mains lead are coloured in accordance with the following code:

Blue = Neutral

Brown = Live

Green/Yellow = Earth

The wire that is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black.

The wire that is coloured Brown must be connected to the terminal which is marked with

the letter L or coloured Red.

The wire that is coloured Green/Yellow must be connected to the terminal which is marked with the letter E or coloured Green or the \perp earth symbol.

WORK AREA PREPARATION

Prior to using this equipment you must prepare the room. It is advisable to have the room empty of all furniture, curtains and wall hangings.

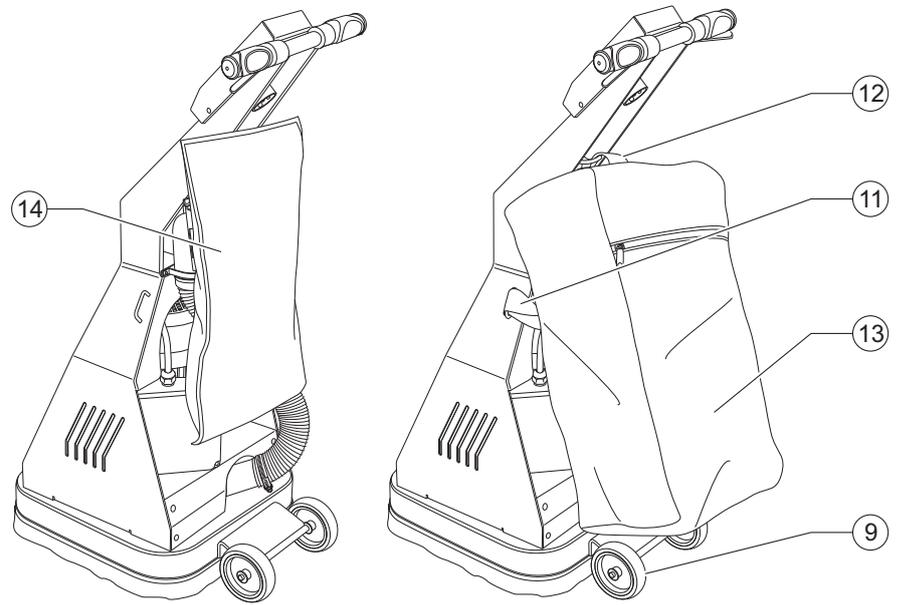
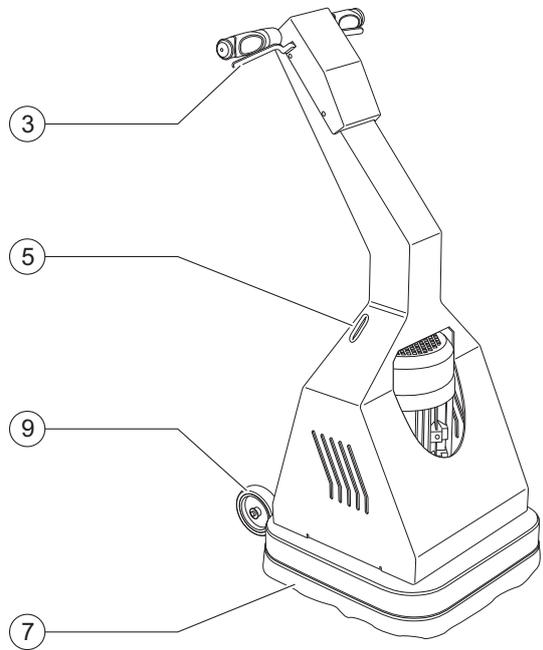
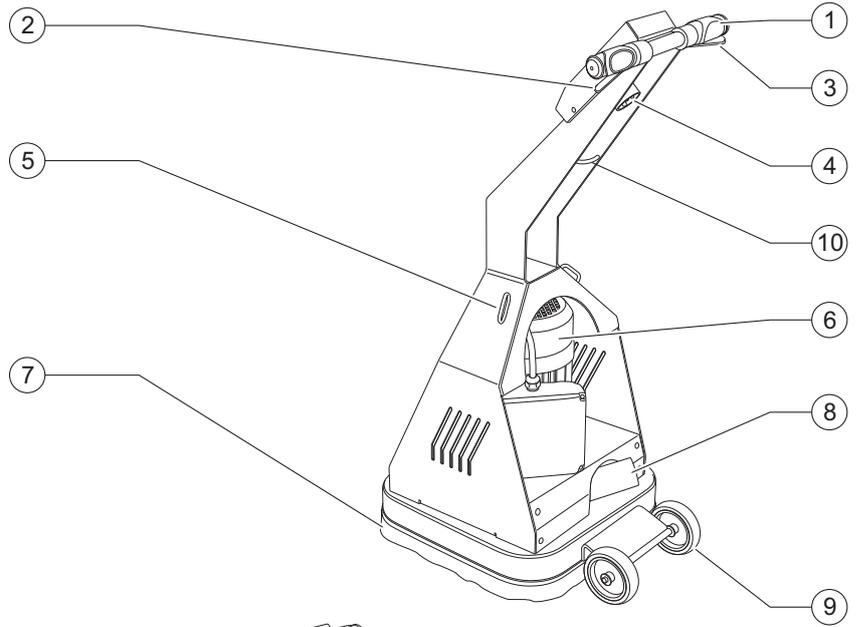
Clear the room and thoroughly vacuum the floor. If you do not, you risk damaging the SandGliders backing discs.

If there are nails, screws, tacks, staples or any other type of fixing in the floor make sure they are ALL either removed or driven 2mm below the floor surface.

Pipework passing through flooring to a radiator will be vulnerable to damage by the sanding discs/disc and must be protected to avoid water leakage and property damage. This precaution must also be taken with cables and wires (e.g. telecom cables).

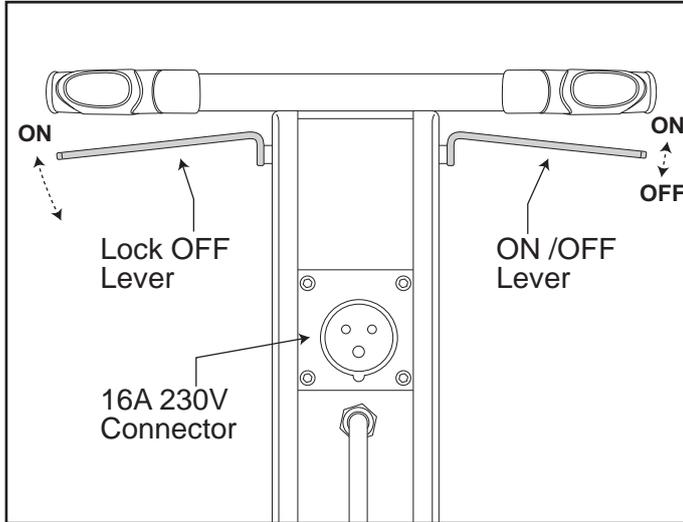
Ideally, all windows should be opened and all doors closed and sealed with tape. The SandGlider will collect up to 95% of wood dust but NOT all, so sealing the doors will help prevent dust travelling throughout the building.

- 1 Control Handle
- 2 Lock OFF Lever
- 3 ON/OFF Lever
- 4 I6A 230V Captive Connector
- 5 Dust Bag Side Mount Loop
- 6 Electric Motor
- 7 Dust Skirt
- 8 Dust Collection Outlet Tube
- 9 Transport Wheels
- 10 Dust Bag Upper Mount Loop
- 11 Dust Bag Side Velcro Strap
- 12 Dust Bag upper Velcro Strap
- 13 Dust Collection Bag (reusable)
- 14 Dust Collection Bag (disposable)



CONTROLS

To safeguard the operator, the SandGlider is fitted with a switch that must be held in the ON position by the operator. If the switch is released, the machine will stop. In addition, there is a lock off lever, which will prevent the ON/OFF lever being operated on its own.



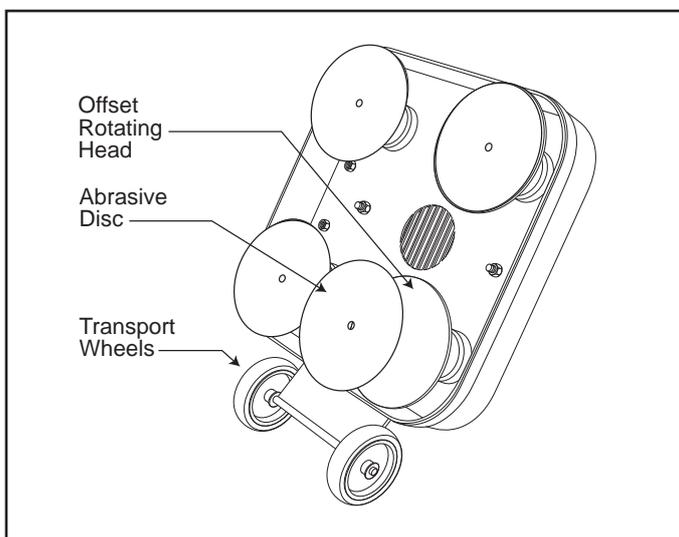
To switch the machine ON you must firstly operate the lock off lever. This lever prevents the ON/OFF lever from being accidentally operated. Next, squeeze and hold the ON/OFF lever to start the motor.

You must hold the control handles with both hands during operation.

If you release the ON/OFF lever, the machine will stop.

FITTING A SANDING DISC

Fit the SandGlider with the appropriate abrasive. In general, start with a medium grade, then work



through to a fine grade until the desired finish is achieved.

SANDING DISC SELECTION

Selection of the correct grade of sanding disc is very important. Generally you can start with a medium grade but care must be taken in case this is too coarse. If unsure, start with fine and change to a coarse grade if required. If you start with a coarse grade and remove too much material you will have to sand the entire floor to the same level. Work through the grades until the desired finish is achieved.

Isolate the SandGlider from the power supply and carefully tilt the SandGlider back until its handles are touching the floor.

The SandGlider should remain in position but it is advisable to have someone hold it in case it tips back up.

Sanding discs are fitted with the Velcro fastening system. Firstly, remove any fitted disc by pulling it from the backing pad. Simply align the new disc with the backing pad and press on firmly.

It is also advisable to keep a set of sanding discs fitted to the backing pads when not in use, to protect the pad's Velcro surface from damage.

DUST CONTROL

The SandGlider is designed with its own dust collection system. There are two options for dust collection bags, reusable fabric or disposable fabric.

Whichever type you are using, always operate the SandGlider with a dust collection bag fitted.

The SandGlider must be switched OFF and isolated from the power supply before fitting or removing a bag.

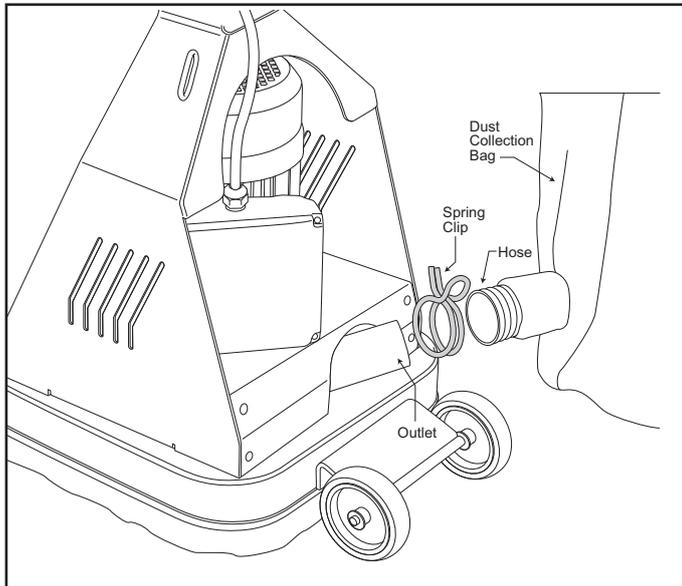
REUSABLE...

The reusable fabric bag fits to the outlet at the lower rear of the machine. It is connected by a spring clip, which requires no tools to release or fit.

The bag is supported by three Velcro straps which pass through support loops, one either side of the main body and one under the main handle.

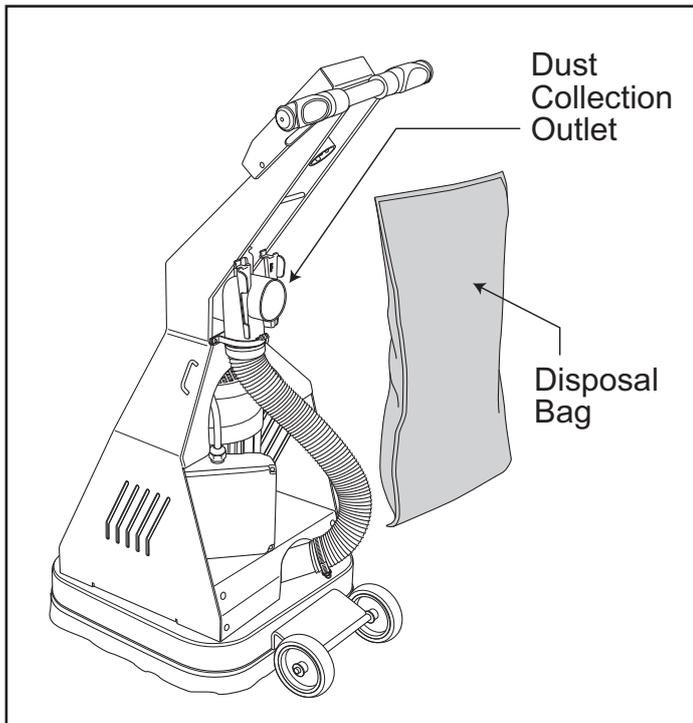
Emptying of the bag should be performed in the open air to ensure good ventilation. Dust inhalation is dangerous and can cause long term illness.

With the bag removed, empty the contents via the side zip. Once empty, fully close the zip and reattach to the machine.



DISPOSABLE...

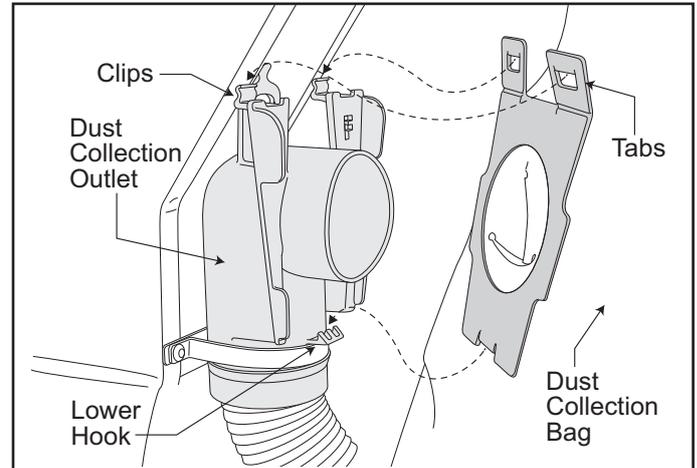
The disposable fabric bag fits to the outlet at the upper rear of the machine and requires no tools to release or fit. The inlet is fitted with stiff card, which attaches to the dust extraction outlet.



Take a new bag and fully unfold it. Position the bottom edge of the card on to the outlet's lower hook.

Pivot the card to bring the bags centre opening over the outlet until card and outlet are flush. Finally, lower the two tabs over the outlets clips to retain the bag in place.

Removal is simply a reverse of the fitting instruction.



There is also a dust skirt which fits onto the outer edge of the base and is used to contain the dust. The skirt is held in place by a continuous velcro strip which allows for the skirt to be adjusted as its leading edge wears. The skirt **MUST** be fitted and correctly positioned whenever the SandGlider is in use.

WOOD DUST IS EXPLOSIVE.

Wood dust is extremely dangerous and can ignite spontaneously. It is liable to explode if left stored in any type of container, including disposable plastic bin bags.

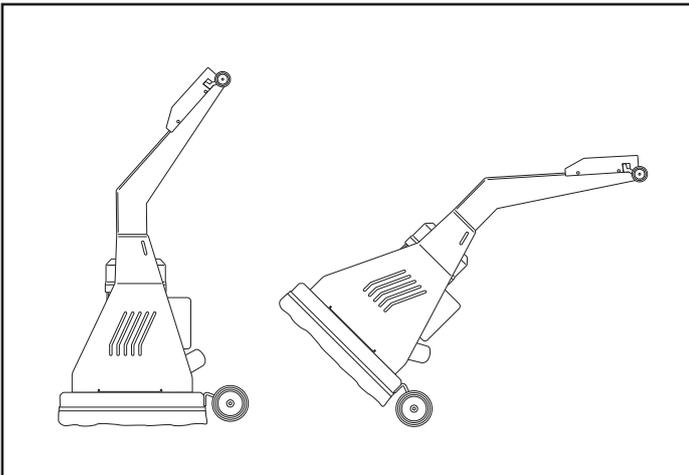
Empty the dust collection bag once 1/2 full or prior to storing or leaving the machine unattended.

Never dispose of wood dust in a fire or incinerator as it is liable to explode.

The safest way of disposal is to loosely empty the dust in to general rubbish.

OPERATING THE SANDGLIDER

The SandGlider is designed to be operated in the upright position with all sanding discs in contact with the floor. DO NOT tilt the unit back before switching it ON. Having fitted a full set of four sanding discs, wheel the machine to the far corner of the floor, placing it as close to the corner as possible. You will be walking backwards when you first progress. Connect the power supply lead to the SandGlider then to the power supply and switch the supply ON.



Drape the cable over your shoulder to prevent it being damaged by the sanding action.

With all four sanding discs in contact with the floor surface, take a firm hold of the control handles. Squeeze in the lock off lever followed by ON/OFF lever to start the motor.

Once the SandGlider motor reaches operating speed, slowly walk backwards manoeuvring the unit over the floor surface. The SandGlider will try to move around when in contact with the floor so be prepared.

Try to overlap the previous strip to ensure that you do not have 'unsanded' areas.

The slower you move the SandGlider the greater the removal so keep a close eye on the surface finish and adjust your speed as necessary.

Do not exert pressure on the machine, let it work at its own pace. Rushing the job will result in a poor finish and will wear out the sanding discs quicker.

Periodically stop and inspect the condition of the sanding discs. Discs should be replaced when the abrasive is worn, damaged or clogged.

Once the entire floor area has been sanded, release the ON/OFF lever to switch the SandGlider OFF.

Before fitting the next grade of disc, thoroughly vacuum the floor and give a visual inspection to ensure the floor has been correctly sanded.

STOP....THINK....AND PLAN.....

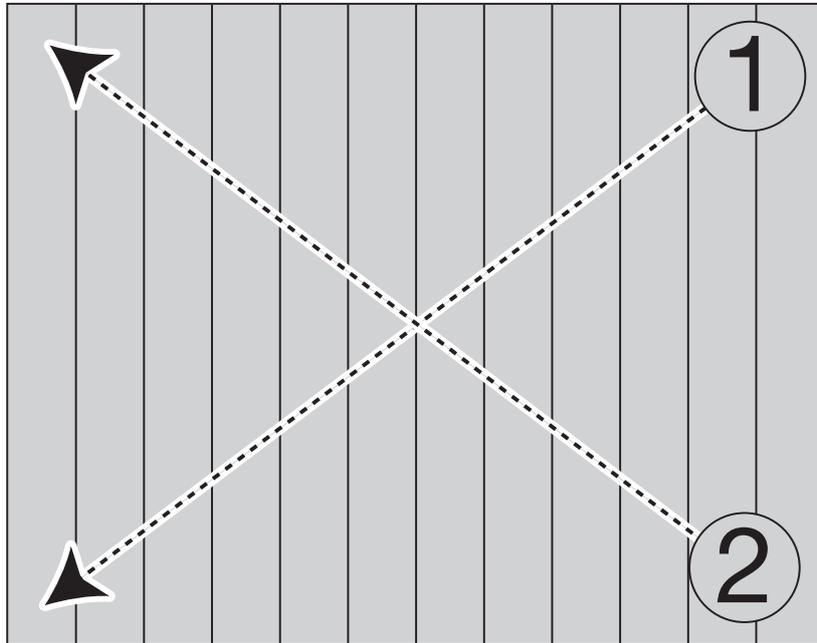
If you rush into the job your floor may be ruined.

The following information is for guidance only and is not necessarily suited to your particular floor. No responsibility will be accepted for flooring damaged by this technique.

Floor Boards...

Floor Boards

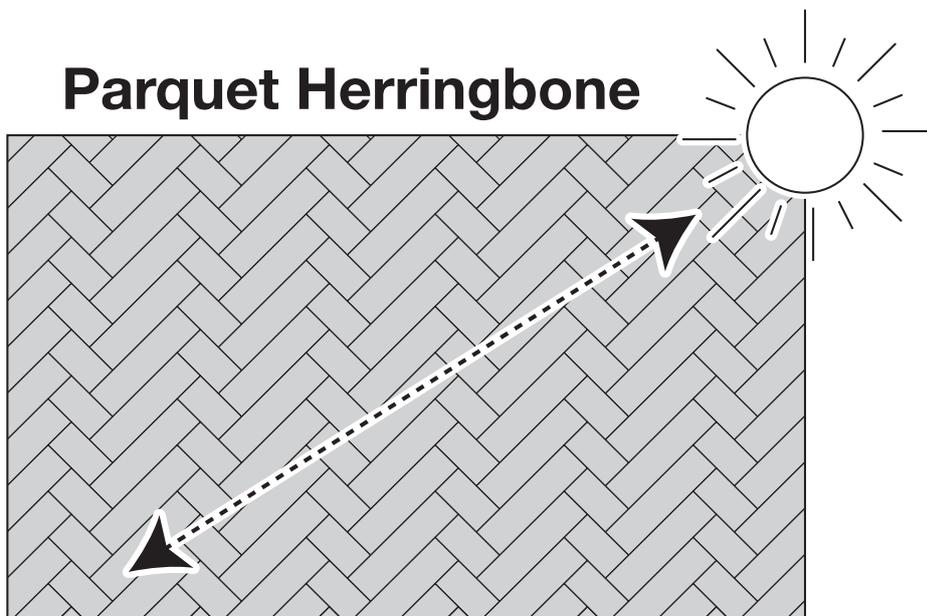
If in a bad condition



Always sand along the grain never across. Where the floor is in a bad condition or the boards have warped, you can rough sand diagonally from top left to bottom right then top right to bottom left. Once rough sanded, continue sanding along the grain for a finish.

Parquet flooring in herringbone or similar pattern...

Parquet Herringbone



Sand in the direction of the main light source

Always sand towards the source of light, never across or diagonally from it. The light will show all imperfections when sanded in any other direction.

TRANSPORTING**Vehicular**

When transporting the SandGlider, do not lay the unit down, always keep the machine upright with all four protected backing pads in contact with the floor. Do not transport on an open vehicle in adverse weather.

Pedestrian

Tilt the SandGlider back onto its transport wheels, making sure that the dust collection bag is kept clear of the ground and the wheels.

LIFTING**Manually**

Care must be taken when lifting manually. The unit may be lifted by firstly tilting the unit back.

The handles can be used as the lifting point for the top, and the edge of the base for the lower end.

However, fully assess the risks before lifting manually and ensure that there are at least three persons available to assist.

Mechanically

The SandGlider may ONLY be moved by fork lift when secured to a suitable pallet. It must NOT be lifted using ropes or chains.

STORAGE, CLEANING AND CARE**Storage**

When not being used, store the SandGlider in a clean, dry and secure location.

ALWAYS remove the dust collection bag from the machine.

The reusable dust collection bag MUST be emptied and neatly folded to maintain condition and to safeguard against fire/explosion.

Cleaning

Do not use any liquids, acids or cellulose-based solvents that may damage the moving parts of the SandGlider.

General Care

Thoroughly inspect the SandGlider for damage and wear. Have all parts inspected for condition and safety. Replace worn or damaged parts as soon as required using only genuine SandGlider parts. If the reusable dust collection bag develops a hole or a tear, it MUST not be used until repaired or replaced.

INSPECTION & MAINTENANCE

Inspection and maintenance may only be carried out by suitably trained personnel. An inspection should be performed before the start of each work session.

You must ensure that any faults or defects are repaired before using the SandGlider.

Before making any inspection or carrying out any maintenance, isolate the unit from the power supply.

Inspect for correct operation of, or structural damage or wear and tear to...

Power Supply Cable

Lock Off Lever

ON/OFF Lever

Dust Collection Bag

Dust Bag Connections and supports

Offset Rotating Heads

Backing Pads

Dust Skirt

Transport Wheels

DISPOSAL

Information for the correct disposal of components.

Steel / Plastic: Dispose of at your local authorities collection point.

3rd party consumables (Abrasives)...

Please refer to the manufacturer for the correct disposal requirements.

Warranty:

Your SandGlider is covered by a 12 month warranty. The Company undertakes to replace or repair, free of charge, any defect which the Company considers to be due to faulty workmanship or material, within 12 months of the sale date, except for:

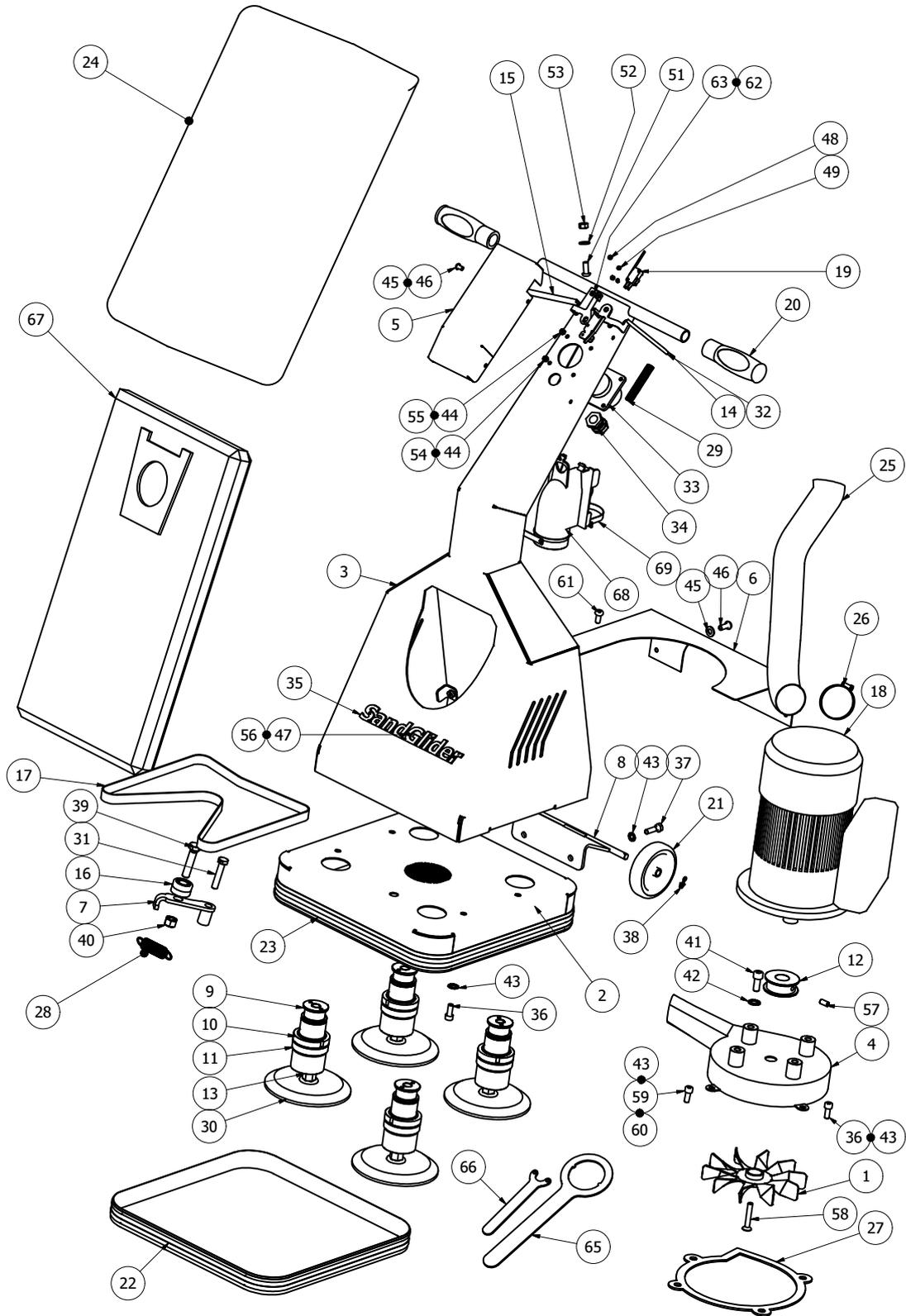
- Defects arising from neglect, misuse or unauthorised modifications.
- Damage caused by abuse, misuse, dropping or other similar damage caused by, or as a result of failure to follow transportation, storage, loading or operating instructions.
- Alterations, additions or repairs carried out by persons other than the Manufacturer or their recognised distributors.
- Transportation or shipment costs to and from the Manufacturer or their recognised agents, for repair or assessment against a warranty claim, on any SandGlider or component.
- Materials and/or labour costs to renew, repair or replace components due to fair wear and tear.
- Faults arising from the use of non-standard or additional parts, or any consequential damage or wear caused by the fitting or use of such parts.

IMPORTANT – This warranty may, at the sole discretion of the manufacturer, be voided if the scheduled service/inspections are not carried out in accordance with the service logbook.

The Manufacturer and/or their recognised agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of the inability to use the SandGlider for any purpose.

Modifications:

If additional equipment or any third party work, modifications or alterations are to be carried out on the SandGlider which will involve any welding, drilling or any form of cutting or distortion of materials, full written approval must be obtained from the Manufacturer prior to the work being carried out.



Sandglider Spares List			
			16/06/2012
Item No:	Part No:	Description	Qty per unit
1	SAN-020	Fan Blade	1
2	SAN-030	Base Painted	1
3	SAN-040	Main Body c/w Sandglider badge	1
4	SAN-050	Exhaust / fan cover	1
5	SAN-070	Switch box lid	1
6	SAN-080	Belt Guard Cover	1
7	SAN-090	Spring tension arm	1
8	SAN-100	Castor Bracket c/w castors	1
9	SAN-130	M16 I.D. Threaded pully wheel	4
10	SAN-140	M50 Locking Nut	4
11	SAN-150	M50 Threaded Boss c/w bearings & spacer	4
12	SAN-160	Motor Pulley Wheel	1
13	SAN-170	Spindle Assembly	4
14	SAN-190	Trigger L/H c/w sleeve	1
15	SAN-200	Trigger R/H c/w sleeve	1
16	BEA-RAI-012	Tensioner Bearing	2
17	BEL-SAN-1220	Pulley Belt 1220	1
18	MOT-SAN-230	1.5KW 2HP 230V Motor Flange Mount	1
19	SWI-SAN-25	Switch	1
20	HAN-SAN-010	Handle Grips	2
21	CAS-SAN-100	Castors 100mm	2
22	SAN-VEL-50	Sew on Velcro - Hook 50mm x 147mm	1
23	SAN-VEL-20	Self Adhesive Velcro - Loop 20mm x 147mm	1
24	BAG-SAN-010	Dust Bag	1
25	HOS-SAN-051	Hose 51mm ID x 800mm	1
26	CLI-SAN-4055	Hose Clip 40-55mm	1
27	GAS-SAN-010	Gasket - Fan cover / exhaust	1
28	SPR-SAN-587	Tension Spring	1
29	SPR-SAN-3628	Trigger Spring	2
30	SAN-PAD-32315	150mm Backing pads 5/16" thread	4
31	SCR-SHO-101230	M10 Shoulder Screw	1
32	SLE-SAN-100	Trigger Sleeve	2
33	ELE-SOC-613-6	16amp 230V Panel Inlet	1
34	CAB-GLA-016	M16 Compression Gland	1
35	FAB-SAN-210	Sandglider badge	1
36	SCR-SOC-820	M8 x 20mm Socket cap	7
37	SCR-SET-820	M8 x 20mm HT Set (Castor brkt)	2
38	SPL-PIN-1834	Split pins (Castors)	2
39	SCR-SET-1255	M12 x 55mm HT Set	1
40	NUT-112	M12 Nyloc nut	1
41	SCR-SOC-1025	M10 x 25 Socket cap screw (Motor)	4
42	WAS-SHA-10	M10 Shakeproof washers	4
43	WAS-SHA-8	M8 shakproof washers	10
44	NUT-105	M5 Nyloc nut	6
45	WAS-SHA-6	M6 Shakeproof washer	9
46	SCR-BUT-610	M6 x 10mm Button socket (Switch Box & Lid)	8
47	SCR-MCH-312	M3 x 12mm Pan pozi mch screw	3
48	NUT-003	M3 Full nut	2
49	WAS-SHA-3	M3 Internal shakeproof washer ZP	2
50	CIR-014	Circlip	4
51	SCR-BUT-820	M8 x 20mm Button Socket ZP	2
52	WAS-FOR-008B	M8 Form B washer ZP	8
53	NUT-108	M8 Nyloc nut	2

54	SCR-POZ-530	M5 x 30mm Pan Pozi mch screw ZP	2
55	SCR-POZ-515	M5 x 16mm Pan Pozi mch screw ZP	2
56	NUT-103	M3 Nyloc nut	3
57	SCR-GRU-816	M8 x 16mm Grub screw	1
58	SCR-CSK-825	M8 x 25mm Csk Socket screw ZP	1
59	NUT-008	M8 Full nut ZP	1
60	SCR-SOC-830	M8 x 30 Socket Cap screw	1
61	SCR-SET-616	M6 x 16mm HT Set ZP	1
62	SCR-BUT-416	M4 x 16mm Button Socket	1
63	NUT-104	M4 Nyloc nut	1
64	ELE-CAB-16A	13amp to 16amp 3m Extension lead 230V	1
65	SPA-SAN-010	50mm Locknut Spanner	0
66	SPA-SAN-020	Pulley Wheel Spaner	0
67	BAG-DUST-010	Disposable Micro Filter Dust Bag	1
68	ELB-SAN-010	Elbow Fitting - Disposable Bag	1
69	CLI-SAN-010	Clip - Elbow Fitting	1

Products Built to Last

EC Declaration of Conformity

In accordance with EN ISO 17050-1:2004

We
of

Bison Products Ltd
Bison Place, Moss Side, Leyland, Preston,
PR26 7QR, UK

In accordance with the following Directive(s):

- | | |
|-------------|--|
| 2004/108/EC | The Electromagnetic Compatibility Directive
and its amending directives |
| 2006/42/EC | The Machinery Directive |

Hereby declare that:

- | | |
|---------------|----------------|
| Equipment | Floor Sander |
| Model number | SandGlider |
| Serial Number | (8000 to 9999) |

Is in conformity with the applicable requirements of the following documents

Ref. No.	Title	Edition/ date
BS EN ISO 12100	Safety of machinery. General principles for design. Risk assessment and risk reduction.	2010
BS EN 60335-1	Household and similar electrical appliances. Safety. General requirements	2012
BS EN 61000-6-1	Electromagnetic compatibility (EMC). Generic standards. Immunity for residential, commercial and light industrial environments.	2007
EN 61000-6-3	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light industrial environments	2007+ A1:2011

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications and is in accordance with the requirements of the Directive(s)

Signed by: 

Name: John Haworth
Position: Director
Done at: Leyland
On: (16/07/2012)



The technical documentation for the machinery is available from the manufacturer at the above address.

Registered in England & Wales No: 07498521
Registered address: 32 Marathon Place, Moss Side Industrial Estate, Leyland, Lancashire. PR26 7QN

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Original English Language Instruction Manual

VI:1610:2012

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