

# Bona® Dual Edge™

## Operating Manual



**Bona®**

## ATTENTION:

This manual contains important information on the safe use and operation of this machine. Failure to read this manual before operating, adjusting or servicing this machine could cause injury or damage to persons or objects.

Anybody operating the machine should understand how to use and operate it before starting it up. Keep this manual for future reference.

This manual is an ENGLISH translation of the original version in Italian.

# **Bona**®

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Read the instructions contained in this user and maintenance manual before using the machine.



Hearing protection during use is recommended.



Protection of the airways during use is recommended.



Hazard due to electricity.



Hazard due to moving parts.

## Operator Safety



**DANGER** means: Severe bodily injury or death can occur to you or other personnel if the statements found on this machine or in this Owner's Manual are ignored or are not adhered to. Read this entire manual before operating this machine.



**WARNING** means: Injury can occur to you or to other personnel if the WARNING statements found on this machine or in this Owner's Manual are ignored or are not adhered to. Damage to the machine or to other property may occur as well, if the WARNING is ignored.

**NOTE:** The reading and understanding of the Owner's Manual is imperative prior to operating this machine. If you or your operator(s) cannot read English, have this manual explained fully before attempting to operate this machine. Children should be supervised to ensure that they do not play with the appliance. This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.



Sanding/finishing wood floors can create an environment that can be explosive.

The following safety procedures must be adhered to:

- Cigarette lighters, pilot lights, and any other sources of ignition can create an explosion when active during a sanding session. All sources of ignition should be extinguished or removed entirely, if possible, from the work area.
- Work areas that are poorly ventilated can create an explosive environment when certain combustible materials are in the atmosphere; i.e., solvents, thinners, alcohol, fuels, certain finishes, wood dust and other combustible materials. Floor sanding machines can cause flammable material and vapors to ignite. Read the manufacturer's label on all chemicals being used to determine combustibility. Keep the work area well ventilated.
- Hitting a nail while sanding can cause sparks and create an explosion or fire. Always use a hammer and punch to countersink all nails before sanding floors.

## Operator Safety (Con't.)

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**DANGER**

Electrocution could occur if the machine is used on a power circuit that repeatedly trips or is undersized. Have a licensed electrician check the fuse, breaker, or power supply.

Electrocution could occur if maintenance and repairs are performed on a unit that is not properly disconnected from the power source. Disconnect the machine from all power.

Electrocution could occur if the machine is used on an ungrounded electrical circuit. Never remove or disable the grounding supply conductor on the electrical cord.

Consult an electrician if the grounding conductor is missing or if you suspect your circuit is not grounded properly.

Use of this machine with a damaged power cord or plug could result in an electric shock. **DO NOT** pull or carry by cord, use power cord as a handle, close a door on cord, or pull cord around sharp edges or corners.

**DO NOT** unplug by pulling on cord. To unplug, grasp the plug, not the power cord. **DO NOT** handle plug or operate machine with wet hands. **DO NOT** put any objects into motor openings.

Electrocution or injury could occur if the power cord is run over and damaged by the sanding machines. Keep the cord from contact with the sanding heads. Always lift the cord over the machine and sand away from the cord.

Moving parts on this machine can cause serious injury and or damage. Keep hands, feet, hair, and loose clothing away from all moving parts of the unit.

Operating a vacuum without all guards, doors, or covers in place can cause an injury or damage.

**DO NOT** pick up any objects that are hot, burning or smoking, such as cigarettes, matches or cinders.

Injury to the operator or bystanders could occur if the machine is plugged in while performing maintenance, servicing, changing filter, or inspecting. Always unplug machine when not in use.

**DO NOT** use solvents or other flammable products to clean this machine.

Dry use only. **DO NOT** use for liquid recovery, which could result in motor failure, electric shock, and electrocution.



**WARNING**

Airborne sanding dust should not be breathed in while operating a sander. Always wear an approved particulate respirator while operating sanding equipment.

Injury to the eyes and or body can occur if protective clothing and or equipment is not worn while sanding. Always wear safety goggles, protective clothing, hearing protection, and a dust mask while sanding.



Exposure to high noise levels can cause hearing loss or impairment. Wear OSHA-approved hearing protection (earmuffs) when using this equipment.

Bodily injury could occur if power is supplied to the machine with the power switch already in the “ON” position. Always check to assure the power switch is “OFF” before connecting the machine to its power source.

*DO NOT* use this machine as a step or furniture. *DO NOT* ride on this machine.

Check filters. Clogged filters may lead to overheating and subsequent electrical problems which may lead to machine failure or electrical shock.

*DO NOT* put any objects into openings. *DO NOT* use with blocked openings. Keep free from dust, lint, hair or anything that may reduce airflow.

**KEEP AWAY FROM CHILDREN**



Failure to read the Bona® Dual Edge™ machine manual before operating, adjusting or performing maintenance operations on the machine could cause injury or damage to persons or objects.

Anyone operating the machine should understand how to use and operate it before starting it up.

## Storage

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It is advisable to store the machine in its original packaging.

If the machine is removed from the original packaging and is not used for some time, ensure the wheels and disc are not in contact with the ground. In this case use two supports at least 20mm (0.79") in height to rest the machine on, ensuring contact is with the base frame.



This equipment is for dry use only and must not be used or kept outside in wet conditions. Store the machine in a dry building, otherwise the machine could be damaged. Storage temperature from -4°F to 122°F.

# Transporting and Handling

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1) Ensure the power supply cable is disconnected from the mains and the machine.



2) Always move the sanding machine using the two handles with the bag support turned upwards. Protect the sanding discs with abrasive discs and ensure the screws fastening the abrasive discs are secured well. When transporting the sanding machine on a vehicle always ensure it is well secured and cannot move. Always lift and move the machine with care, as it is very heavy.

## Introduction

### Safe and correct use

This instruction manual should be read carefully before using the Bona® Dual Edge™ wood floor steering sander for the first time.

The instruction manual contains important information on safety and preventing improper use of the machine and will resolve any doubts or questions, making it possible to operate the machine safely and with ease. Removing safety features could cause death or physical injury. Familiarize yourself with the machine before using it for the first time.

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If a situation arises which has not been described in this manual, contact your distributor or Bona® Representative.

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The Bona® Dual Edge™ wood floor steering sander is designed for the dry sanding of wood floors. Any other use without the consent of the manufacturer is prohibited. **DO NOT** use on wet floors.

See 'Machine Warnings' on page 15.

Keep hands and clothing away from moving mechanical parts.

The work area is protected by the base frame.

## Machine data plate

The following information can be found on the machine data plate:



- 1) Machine model
- 2) Safety symbols
- 3) Motor power
- 4) Frequency
- 5) Supply voltage
- 6) Country of manufacture
- 7) Year of manufacture (see 8)

**SERIAL N° GE1418544**

8) Serial number:

- The first two numbers refer to the year of manufacture (14 = 2014)
- The second group of three numbers indicates the day of the year the machine was manufactured (185 = July 4<sup>th</sup>)
- The last two numbers indicate the progressive number of machines produced that day of manufacture (44 = 44<sup>th</sup> machine produced that day)

## Commencing Operation

## Instructions for electrical connection



This machine only operates with the voltage and frequency shown on the machine data plate. Before connecting the cable to the power supply ensure the correct voltage and frequency are available.

*DO NOT* expose the machine to rain. This machine is intended for dry use only. Keep the machine in a dry building and *DO NOT* use it in damp or wet places.



## Commencing Operation (Con't.)

### Instructions for electrical connection (con't.)

#### **WARNING**

If the machine is not connected correctly to the electricity network, death due to electrocution may occur. To prevent electric shocks always use a grounded three wire electrical system. For maximum protection against electric shocks use a circuit protected with a differential cut-out switch.

Tampering with the grounding plug in any way may result in death from electrocution. *DO NOT* cut, remove or break the grounding plug. If the socket does not match the plug consult a qualified electrician.

#### **DANGER**

If the machine is used with a damaged plug or power supply cable, death may occur from electrocution. If cables or plugs are worn or damaged in any way, have them replaced by the manufacturer or certified machine repair center in order to prevent risks to safety.

### Cables, extensions and plugs

Only use approved cables. The maximum recommended cable length is 7.62m (25'); for greater lengths use the Power Station.

#### **WARNING**

Using the machine with unsuitable and/or excessively long cables may cause injury or damage to people or objects.

The machine must never be moved using its cable and the cable must never be pulled when disconnecting from the socket.

Keep the cable away from sources of heat, oil and sharp edges.

#### **MACHINE WITH 115V~60Hz SINGLE PHASE MOTOR**

For machines with a 115V~60Hz single phase motor (US), an HAR 14/3-approved power supply cable must be used along with a 15A 125V twist lock plug.

## Removing sawdust generated during use

### DANGER

Sawdust can ignite spontaneously and cause injury or damage. It must be disposed of properly. Always empty sawdust into metal containers located outside the building. Empty the contents of the dust bag when it is 1/3 full. Empty the dust bag at the end of each machine use. Never leave the dust bag unattended when it contains sawdust. **DO NOT** empty the contents of the dust bag above a fire.



## Prevention Measures for Users

### Personal safety measures

### WARNING

Sawdust can spread through the air and be inhaled when using the sander. Always wear a dust mask when using the sanding equipment.

The eyes and/or body may suffer injury if personal safety clothing is not used. Always wear safety goggles, protective clothing and a dust mask during sanding operations.

Lengthy exposure to noise levels during sanding operations may damage the hearing. Always use ear protectors during sanding operations.

Never become distracted during sanding operations, check what is happening continually. Use common sense. **DO NOT** use the machine when tired.

### Compliance with safety measures and warnings

### DANGER

Using the machine when not fully assembled may cause injury or damage to people or objects. **DO NOT** use the machine when it is not fully assembled. Keep all fittings tightly closed. Maintain machine settings in accordance with the specifications.

## Prevention Measures for Users (Con't.)

### Compliance with safety measures and warnings (con't.)



Using the sander without the safety guards and covers in position may cause injury or damage. Always ensure that all safety guards and covers are in position and secured well.

The wood floor sander may create an explosive environment. Cigarettes, cigars, pipes, lighters, pilot flames, or any other source of fire may create an explosion if lit during sanding operations. No sources of fire should be kept near the work area.

Poorly ventilated work areas may create an explosive environment when some combustible materials are present in the atmosphere, such as solvents, thinners, alcohol, fuel, some paints, wood dust or other combustible materials. Floor sanding machines may cause various materials and fumes to ignite. Read the manufacturer's instructions for each chemical product used and establish its combustibility. Always keep the work area well-ventilated.

Striking nails when sanding may generate an explosion or fire. Always ensure all nails are sunk before sanding surfaces.

Serious damage may occur if the power supply circuit trips repeatedly or is undersized. Have the fuses, safety circuit and power supply line checked by an authorized electrician.

Performing maintenance and/or repairing the machine when it is not fully disconnected from the power supply may cause death due to electrocution. Disconnect the power supply before carrying out any maintenance and/or repair work.

The use of this machine on a circuit which is not grounded may cause death due to electrocution. Never disconnect or disable the grounding conductor. Consult an electrician if the ground conductor is missing or it is suspected that the circuit is not suitably grounded.

The use of this machine with a damaged power supply cable may cause electric shock. Check the power supply cable regularly for damage such as splitting or wear and tear. **DO NOT** use the machine if the power supply cable is damaged. **DO NOT** use the electric cable to move the machine.

Injury or damage may occur if the sander runs over the power supply cable and it becomes damaged. Keep the cable away from the lower part of the machine to avoid contact with the abrasive. Always keep the power supply cable raised above the machine.

The moving parts on this machine may cause serious injury and/or damage. Keep hands, feet and loose clothing away from all moving parts of the sander.

Performing maintenance or replacing the dust bag may cause injury to the operator or people nearby if the machine is connected to the power supply.

### Compliance with safety measures and warnings (con't.)



Failure to comply with instructions on this machine and in this manual may cause serious injury and/or damage. Read and comply with all safety instructions. Ensure that all plates, labels, warnings and instructions are secured to the machine. New plates can be obtained from an authorized Bona® dealer.

Injury or damage may occur if maintenance operations or repairs are carried out by any unauthorized personnel.

The machine may become damaged if it is not kept in a dry building. Keep in a dry building.

## Correct Machine Use

### Read this manual carefully and become familiar with the machine.

The equipment is suitable for industrial use (e.g. in hotels, schools, hospitals, offices, factories and shops).

The following information highlights particularly hazardous situations for the operator and/or machine. Understand when these conditions may be present. Removing safety features could cause death or physical injury. Take all steps necessary to instruct personnel who may use the machine. Report any damage on the machine or incorrect operation immediately.

- 1) Keep hands and clothes away from rotating parts.
- 2) Keep hands on the handle and **DO NOT** leave the machine unattended when the motor is operating.
- 3) Always use the machine with the dust bag in the correct position and **DO NOT** detach the dust bag when the motor is operating.
- 4) Always disconnect the power supply cable from the machine before performing maintenance.
- 5) Transport the machine with care due to the heavy weight of the individual parts making up the machine.
- 6) Always use the machine in well-ventilated, well-lit areas.
- 7) Always dispose of the sawdust appropriately.
- 8) Use the type and amount of abrasive specified in the instruction manual.
- 9) The use of accessories other than those recommended in this manual may cause injury.
- 10) The steering sander is for indoor use only.

# Machine Control Instructions

The Bona® Dual Edge™ is defined as a steering sander due to its innovative control characteristics (patent pending). The point of pressure is related to the chosen direction whereby the pressure exerted on one side moves the machine in the same direction. Therefore, the machine moves left and right on the basis of the force and pressure applied to the handles.

Until now all small disc sanders have required point pressure (i.e. a load perpendicular to the center of the machine), whereas the Bona® Dual Edge™ steering sander has two counter-rotating discs. The thrust of the left disc is counterbalanced by the thrust in the opposite direction exerted by the right disc (A).

The correct operator position for optimum control is behind the machine and not at the side, with one hand on each handle. Once the machine has been started it can be noted that it remains quite stationary even though the discs in contact with the floor are turning.

To move the machine to the right, exert light downward pressure on the right handle (B).

To move the machine to the left, exert light downward pressure on the left handle (C).



It is prohibited to place objects on the base frame to imitate the weight of the arms or body.



**Abrasive Disc Size:** 2x Ø 100mm (4.00")

**Disc Size:** 2x Ø 100mm (4.00")

**Disc Speed:** 4500 rpm

**Motor Speed:** 14000 rpm

**Motor:** (A42) US — 110V~60 Hz 1.5 kW  
(A40) EU — 230V~50 Hz 1.15 kW

**Disc Tilt Control:** Adjusting the height of the rear wheel support OMNICASTER™

**Bearings:** Lifetime lubricated ball bearings

**Noise Level:** Weighted in A LPA  
(IEC 60704-1 [continuous weighted sound pressure level A, measured at a distance of 0.4m from the handle and a height of 1.5m from the ground])  
85 dB(A) max

**Vibration:** ≤ 1.5m/s<sup>2</sup>  
(ISO 5349 [weighted value of the mean square deviation of the acceleration])

**Net Weight:** 9kg (19.8 lbs)

**Shipping Weight:** Cardboard packages (P/N 6899950002) 12.6kg (27.8 lbs)

**Machine Dimensions:** 320mm (12.60") (Height at handle)  
425mm (16.73") (Height at suction tube)  
255mm (10.04") (Width at handle)  
221mm (8.70") (Width of base frame)  
430mm (16.93") (Length)

**Standard Equipment:** 50x discs SIA abrasives 2812 (Ø 100mm [4.00"], grit 60)  
50x discs SIA abrasives 2812 (Ø 100mm [4.00"], grit 100)  
10x discs SCM (Ø 100mm [4.00"], coarse)  
1x additional spherical wheel, OC30 with black sphere  
2x spare discs in velcro-backed steel  
Dust bag  
Electric cable with plug  
Accessory bag with start-up keys  
User and maintenance manual

# Machine Warnings

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This equipment is not to be used by anyone (children included) with physical or mental disabilities, or anyone without the relevant experience and knowledge, unless they have received instructions on using the equipment and are supervised by a responsible person to ensure their safety.

This equipment is not suitable for collecting hazardous dust.

Using the machine to move objects or moving on an incline may cause injury or damage. The machine must only be used to sand dry wooden floors which are level or have a maximum incline of 2%. **DO NOT** use the machine to sand furniture. **DO NOT** sit astride the machine when it is operating.

Work surfaces may be seriously damaged if the machine is left turning on one point while the tool is in contact with the surface. To avoid damaging the surface, approach the cutting line carefully.

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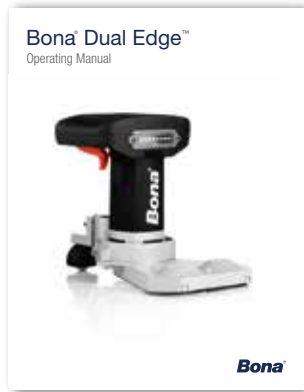
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To start the machine proceed as follows:

1) Become familiar with the machine and read all instructions & safety notices. Ensure that all operators read this manual.



2) Bring the machine to the place of work. If the machine has been removed from the original packaging, pull the suction tube locking piston (A) and turn it 180°.



3) If using DCS, connect DCS cuff to shorter DCS pipe and fasten with provided clamp.  
If using a dust bag, place the dust bag on the suction pipe by tying the cord over the flange.



4) Fit the disc in accordance with the 'Abrasive Assembly Procedures' (pg. 18).



Only use discs with a diameter of 100mm (4.00").



## Starting the Machine (Con't.)

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5) Locate the power supply. The socket must be compatible with the plug. To avoid electrical hazards the socket must be grounded. Connect the plug to the socket.

6) Raise the discs so that the machine is only resting on the floor with its rear wheel. Then, press and hold the switch (A).

7) Keep the machine moving when the discs are lowered and in contact with the work surface.



The switch must be kept pressed to operate the machine. The machine gradually stops when the switch is released or the power supply is interrupted.

8) To stop the machine, raise the discs so that the machine is only resting on the floor with its rear wheel. Then, release the switch (A).



The disc does not stop immediately! Take care not to touch it with any part of the body during this phase.

## Abrasive assembly procedures

- 1) Ensure the electric cable is disconnected from the power.
- 2) Turn the machine over, resting the handles on the floor.
- 3) Remove the worn abrasive paper discs from the velcro-backed discs.
- 4) Ensure the velcro-backed discs are clean and position new 100mm (4.00") diameter abrasive discs.



- 5) Attach the abrasive discs, securing them well to the velcro.



## Adjusting the working surface on the floor

The discs operate best when slightly tilted with respect to the floor.

The tilt is determined by the position of the wheel support which is fitted at the rear of the conveyor. To adjust, loosen the nut (A) and let the support slide on the sanded surface. Tighten the nut (A) once the required height has been reached.



# Routine Maintenance

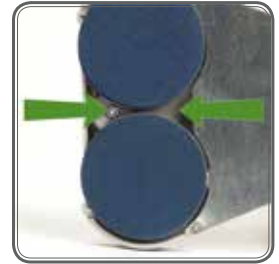
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To keep the machine in good working condition the following items must be checked and serviced regularly.

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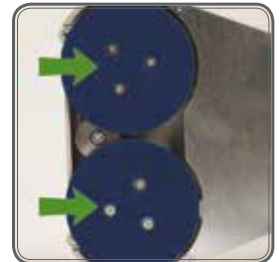
## Sawdust chamber (for the user)

Vacuum the sawdust chamber (A) regularly to prevent the hazardous accumulation of dust.



## Discs (for the user)

Check the surface of the discs (A) regularly and remove any dirt.



## Spherical Wheel (for the user)

Even though the spherical OMNICASTER™ wheel is self-cleaning regarding sawdust, remove dirt from the machine unit and wheel regularly. Dirt may cause uneven sanding.



## Dust bag (for the user)

Remove the bag and shake it well to remove sawdust.

Turn the bag inside out and wash it in the machine in cold water to prevent blockage of the pores and a decrease in dust collection ability.



## Graphite brushes (for the user)

The motor has two graphite brushes that must be checked every six months or after 400 hours of operation. Proceed as follows:

1) Remove the screws on the side motor covers (A) with a screwdriver.



2) Remove the cover (A).



## Routine Maintenance (Con't.)

### Graphite brushes (for the user, con't.)

3) Remove the wire terminal screw (A).



4) Remove the brush (A) complete with spring (B).



5) Check the brushes. If one is shorter than the other by 7mm (0.28"), replace both brushes.



When fitting new brushes, ensure they are installed correctly before replacing covers.

This machine does not require lubrication. All moving parts, including the motor, have watertight ball bearings lubricated for approximately 10,000 hours of operation.

**Always use Bona® spare parts.**

Failure to use Bona® spare parts, or repairs/adjustments carried out by unauthorized personnel, will invalidate the guarantee and any resulting liability.

**The machine must only be repaired by qualified personnel.**

This electric equipment is compliant with the relevant safety legislation. Repairs must be carried out by qualified personnel using Bona® spare parts, otherwise the user may suffer serious injury.

## Rear Spherical Wheel: OMNICASTER™ OC30

Before commencing operation of the Bona® Dual Edge™, it is important that you have chosen the spherical OC30 wheel from the OMNICASTER™ line. The sander is provided with two OC30 wheels (Ø 35mm [1.38"]) and two different spheres – one black and one white.

**The black sphere is recommended for use on hard or very hard woods.**

The material (phenolic resin) is hard, resistant to abrasion and not affected by external contamination from liquids, dust, gels, etc. The sphere is silent and its slide and capacity properties are excellent.



**The white sphere is recommended for use on softer woods.**

The material (plastic polyurethane) has high elasticity properties with a hardness of 90° Shore A ~. It softens vibrations and will not damage flooring. The sphere is silent and its slide and capacity properties are good.



Proper wheel maintenance is important for perfect operation. Maintain both the central body and the sphere. To clean the central body use compressed air to remove dust from internal parts. The black sphere can be cleaned with a degreasing agent or alcohol, whereas the white sphere can be cleaned with only a damp cloth. After cleaning be sure the sphere has kept its round shape, is not warped, and has no grooves. Occurrence of these phenomena could compromise the sliding action of the wheel, making the tool unusable.

## Emergency Situations (For the user)

Problem	Cause	Solution
Insufficient Cutting	Unsuitable or worn abrasive	Replace the abrasive
Insufficient Motor Speed	<u>Excessive cable length</u> <u>Unsuitable cross section</u> <u>Unstable connections</u> <u>Faulty capacitor</u> <u>Faulty motor</u>	<u>Use cables of suitable length</u> <u>Use cables of suitable cross section</u> <u>Arrange suitable connections</u> <u>Contact an authorized Bona® dealer</u> <u>Contact an authorized Bona® dealer</u>
Scatched Work Surface	<u>Faulty abrasive</u> <u>Disc surfaces dirty, faulty or worn</u> <u>Incorrect wheel adjustment</u>	<u>Replace the abrasive</u> <u>Clean/replace the discs</u> <u>Correct the wheel position</u>
Insufficient Dust Collection	<u>Dust bag more than 1/3 full</u> <u>Dust bag dirty or with blocked pores</u> <u>Vacuum ducts and/or obstructed pipes</u>	<u>Empty the bag</u> <u>Shake out the dirt and wash the bag</u> <u>Clean air ducts</u>
Motor Does Not Start	<u>Faulty switch</u> <u>Insufficient voltage for connections</u> <u>Faulty motor</u> <u>No power supply voltage</u>	<u>Contact an authorized Bona® dealer</u> <u>Contact an authorized Bona® dealer</u> <u>Contact an authorized Bona® dealer</u> <u>Check power supply and connections</u>
Scorching on Work Surface	<u>Worn abrasive</u> <u>Excessive pressure on discs</u> <u>Abrasive too fine</u>	<u>Replace the abrasive</u> <u>Decrease sanding pressure</u> <u>Use abrasive with larger grain</u>

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