

**900
WATT**

SHIELD®
since 1964

DUAL ACTION POLISHER



OWNERS MANUAL



Read All instructions before using this Dual Action Polisher.

It's the owner/and or operators responsibility to study all WARNINGS, operating and maintenance instructions contained on the product label and instruction manual prior to operation of this random orbital buffer. The owner/operator shall retain product instructions for future reference.

The owner/and or operator are responsible for the maintenance, maintaining all decals or warning labels while in use, maintaining the unit in good working order. If the owner and/or operator are not fluent in English, the product warnings and instructions shall be read and discussed with the operator's native language by the owner / purchaser or his designee. Make sure that the operator comprehends it contents. Safety information shall be emphasized and understood prior to usage. The random orbital buffer shall be inspected per the operating instructions.

Users of this random orbital buffer must fully understand these instructions. Each person operating this random orbital buffer must also be of sound mind and body and must not be under the influence of any substance that might impair their vision, dexterity or judgment.

IMPORTANT SAFETY INFORMATION



Please read carefully, understand and follow all safety information in this manual prior to and during use of this tool. Keep these instructions handy for future reference.

EXPLANATION OF SIGNAL WORD CONSEQUENCES



WARNING: Indicates a potentially hazardous situation which, if not avoided, may result in death or serious injury and/or property damage.



CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury and/or property damage.



**“Class II”
Construction**



**WARNING -
Hazardous Voltage**



**Do Not Discard In
Household Waste**



**Wear
Gloves**



**Wear Proper
Eye Protection**



**Wear Respiratory
Protection**




**Read And Follow
Use Instructions**



**Wear Proper
Hearing Protection**

GENERAL POWER TOOL SAFETY WARNINGS

 **Warning:** Read safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or other serious injury.

1. Work Area Safety

- a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- c) Keep children and bystanders away while operating power tool. Distractions can cause you to lose control.

2. Electrical Safety

- a) The power tool's plug must match the outlet. Never modify the plug in any way. Proper, unmodified plugs and matching outlets will reduce risk of electric shock.
- b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.
- e) When operating power tool outdoors, use an extension cord suitable for outdoor use.
- f) Avoid operating a power tool in a damp location.

3. Personal Safety

- a) Stay alert, watch what you are doing and use common sense when operating power tool. Do not use power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tool may result in serious personal injury.
- b) Use personal protective equipment. Always wear eye protection. Use of protective equipment such as a dust mask, gloves or hearing protection under appropriate conditions will reduce personal injuries.
- c) Prevent unintentional starting. Ensure the switch is in the "Off" position before connecting to power source, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch "On" invites accidents.
- d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the tool may result in personal injury.
- e) Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. For additional control, use available D-Handle. Maintain firm grip with two hands for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kickback forces if necessary precautions are taken. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

4. Power Tool Usage Safety

- a) This power tool intended to function as a buffer/polisher. Do NOT perform operations such as grinding, sanding, wire brushing or cutting-off with this power tool. Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions may result in electric shock, fire and/or serious injury.
- b) Do not use accessories which are not specifically designed and recommended by SHIELD. Just because the accessory can be attached to the power tool does not assure safe operation.
- c) Do not use damaged pads and accessories on power tool. Compromised accessories can fail and cause injury.
- d) Disconnect the power tool plug from the power source before making any adjustments, changing accessories or storing the power tool. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- e) Hold power tool by insulated gripping surfaces when performing an operation where the spinning accessory may contact hidden wiring or its own cord. A spinning accessory contacting an energized wire may make exposed metal parts of power tool live and shock the operator.
- f) Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- g) Never lay the power tool down until the spinning accessory has come to a complete stop. It may grab the surface and pull the power tool out of your control.
- h) Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing and pull the accessory into your body.
- i) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

5. Specifications

Motor:	900 watts	Pad Size:	Fits 5.5" & 6" polishing pads
Power Supply:	220V 50Hz	Orbit Size:	15 mm
Orbits/Minute:	4 800 RPM	Weight:	2,43 kg

 **CAUTION!** Prior to each use, it is recommended to use supplied Allen wrench to ensure Allen bolt is secured.

6. Power Tool Set-Up


Installing New Backing Plate

 **CAUTION: Ensure power tool is unplugged from power source.**

- With tool resting on its back, align backing plate hub with tool output shaft.
- Carefully line up the squared edge of the backing plate with the squared edge of the orbital shaft.
- Insert Allen bolt and carefully thread into output shaft. Do not cross-thread!
- Tighten bolt with supplied Allen wrench. With bolt bottomed out, securely tighten with a quarter turn.

Installing Buffing Pad and Usage Recommendations

- a) Inspect pad (microfiber or foam) prior to installation.

- b)  **CAUTION:** DO NOT use torn or worn out pads.
- c) Unplug power tool prior to buffing pad installation.
- d) Center pad on backing plate and press firmly around pad.
- e) Never run machine when pad is not resting on the vehicle's surface
- f) Frequent cleaning of buffing pad is essential to reduce product build up, which can potentially lead to excessive pad weight and a subsequent increase in vibration.


Pad Maintenance


- a) Clean pad immediately after use. Do not allow polish or compound residue to dry on the pad.
- b) Remove Pad from the machine
- c) Spray a mild All-purpose Cleaner onto the pad surface. Do not spray onto or rub the Velcro mounting (underside of the pad) as this will damage the Velcro that attaches the pad to the backing plate.
- d) Using cool water from a bucket rub the pad surface with a well soaked terry towel to remove the residue.
- e) Continue washing and adding water until the pad is clean.
- f) To further ensure that all residue has been removed rinse the pad thoroughly, confirm to see that water coming off the pad is clean.
- g) Squeeze to remove excess water and allow to dry on its side in a well ventilated area, preferably in the sun.

PROPER USAGE

7. Starting and Stopping The Power Tool

Note: Prior to application it recommend that all plastic and meal trim on vehicle be taped off using Professional Masking Tape protection from incidental engagement with backing plate and/or pad.

 **CAUTION:** Disconnect tool from power source. It is recommended that the supplied Allen key wrench is used to ensure the backing plate Allen bolt is secure prior to each use

 **CAUTION:** Make certain the Variable Trigger Throttle is in the "Off" position and the power source is the same as specified on the tool's nameplate.

- a) Connect the tool to the power source.
- b) Select the appropriate speed. The tool's maximum speed is adjusted by turning the Variable Speed Dial, Maximum Speed will limited to the speed shown on the Variable Speed Dial. When the Variable Trigger Throttle is actuated the sweep of the trigger increases the speed of the machine incrementally from zero to the preset maximum.
- c) For paint correction a speed setting of #3 or #4 is recommended. For application of waxes and sealants a speed setting of #2 or #3 is recommended. The #1 setting sets the maximum speed at 1,800 orbits per minute.
- d) Hold the power tool in front and away from your body. Be sure the pad is resting on the vehicle surface before starting the power tool.
- e) Pull the Variable Trigger Throttle to start the motor. The more you pull the trigger the faster the motor will run. Release the Variable Trigger Throttle to stop motor.

- f) The Trigger Lock Button, located on the left side of the handle, holds the Variable Trigger Throttle in the “On” position when it is depressed while the Variable Trigger Throttle is pulled.
- g) To release the Trigger Lock Button, pull the Variable Trigger Throttle to its limit and disengage the Trigger Lock Button by pushing it.

⚠ CAUTION: The tool will continue to rotate briefly after it is turned off.



8. Service and Care

⚠ CAUTION: Always disconnect tool from supply prior to maintenance.

- a) Regularly clean the tool’s air vents. The motor’s fan will draw dust and residues inside the housing and excessive accumulated residue may reduce the tool’s cooling capacity, shortening tool life. Periodically blow out all air passages with dry compressed air. Wear safety glasses while using compressed air.
- b) Clean plastic and rubber parts using SP9 or warm water and a soft, damp cloth. Never use solvents or detergents to clean plastic parts.
- c) Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool’s operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- d) Have power tool serviced by a qualified repair shop using only identical replacement parts. This will ensure the safety of the power tool is maintained.

Failure To Start

- a) Should your tool fail to start, check to make sure the prongs on the cord plug are making good contact within the outlet. Also check for blown fuses or open circuit breakers in the line.
- b) If power tool persists in not starting, unplug and inspect motor brushes for excessive wear. Replace if necessary.
- c) Inspect power cord for cuts or shorts. Should excessive wear be identified, contact SHIELD for replacement cords and/or service.

How to replace the Carbon Brush



Remove all 4 outer screws



Slide brush tensioner spring to one side. **IMPORTANT** Do not allow the brush tensioner spring to touch the commutator

Remove the carbon brush from the brush hood



Remove the terminal



Replace the terminal of the new carbon brush



Insert the carbon brush into the brush hood



Reposition the brush tensioner spring

D-Handle

This handle may offer additional user control and comfort. It features energy dampening rubber grips and silicone energy dampening bushings. Remove black plug inserts from Side-Handle Mounts and screw handle into place.

Installing D-Handle

- a) Remove both threaded black caps on opposing sides by turning counter clockwise using a wide flat bladed screwdriver.
- b) Firmly grasp both sides of D-Handle attachment and slide over Side-Handle Mounts.
- c) Carefully thread supplied Allen bolts using supplied Allen wrench. Prior to tightening, select desired handle position.
- d) Tighten Allen bolts with supplied Allen wrench.

10. Product Use

All statements, usage recommendations, and technical information contained in this manual are based on tests or development that SHIELD has deemed reliable. However, many factors beyond SHIELD's control can affect the use and performance of this SHIELD product in a certain application, including conditions under which the SHIELD product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely in the user's knowledge and control, it is critical that the user evaluate the SHIELD product to determine whether it is suitable for a particular purpose and the user's method of application.

11. Warranty

- **SHIELD Lifetime Guarantee** - SHIELD will repair or replace any defective tool, without charge, due to faulty materials or workmanship for the working life of the tool, subject to certain exclusions below.
- **Two Year Comprehensive Warranty** - SHIELD will facilitate replacement of worn parts caused by normal use, without charge, anytime during the two years from date of purchase.
- The Two Year Comprehensive Warranty is void should your tool experience damage caused by failure to follow the recommended maintenance, misuse, alteration or abuse.
- SHIELD Lifetime Guarantee does not cover damage caused by failure to follow recommended maintenance, misuse, alteration or abuse. Normal wear and tear is not considered a defect, therefore part failure which may occur as the result of ordinary use is excluded from coverage.
- SHIELD is not responsible for any incidental or consequential damages.
- Replacement Parts - Tools have a life expectancy, particularly when they are subjected to the rigors of a professional environment. There are components which simply do not last forever. We maintain a complete assortment of replacement parts including: cords, brushes, rotors, body components, counter balance assemblies, etc. Contact your dealer or SHIELD Customer Service for more details.

Disclaimer

Limitation of Liability. In no event shall the monetary liability of company exceed amounts that have actually been paid to company. Company shall not be liable for consequential, indirect, special, or incidental damages under any circumstances, even if advised in advance of the possibility of such damages.

Answers To Your Questions

To order additional SHIELD products, or for a complete selection of SHIELD products, please call us at 011 421 7111, email us at info@shieldchem.co.za, or go to www.shielddetailing.co.za.