



THE BOSS™

AIR MICRO ROTARY

THE POWER TO ACHIEVE PERFECTION



User's Manual and Care Instructions

THE BOSS AIR Micro Rotary Polisher



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



THE BOSS™

THE POWER TO ACHIEVE PERFECTION



As lifelong car lovers, we're always seeking tools for a flawless finish. That's why we design our own. THE BOSS is the next generation of paint perfection from Griot's Garage. With a powerful rotary action, it does more work per revolution for faster, more effective paint correcting and finishing. Drawing on our heritage of high-performance tool design, every detail of THE BOSS is designed to maximize performance, control, and comfort. Enjoy perfection.

Richard
Richard Griot

IMPORTANT SAFETY INFORMATION



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

INTENDED USE

The Griot's Garage THE BOSS AIR Micro Rotary Polisher is designed to be used as a polisher. It is designed to be used with Griot's Garage backing plates, appropriate Griot's Garage Best Of Show System™ (BOSS) Foam or Microfiber pads, and with appropriate BOSS Correcting, Perfecting, and Finishing liquids for beautifying all types of painted surfaces. Do not use pads that have a maximum speed rating less than the tool's specified maximum speed rating. Only accessories specifically recommended by Griot's Garage should be used with this tool. The Griot's Garage THE BOSS AIR Micro Rotary Polisher is not a sander, grinder, or cut-off tool. Use in any unapproved manner or with inappropriate accessories could lead to unsafe operating conditions. Do not operate tool in water or in an excessively wet environment.

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.



Wear Proper Eye Protection



Wear Respiratory Protection



Do Not Discard In Household Waste



Read And Follow Use Instructions



Wear Gloves



Wear Proper Hearing Protection

GENERAL AIR TOOL SAFETY WARNINGS

⚠ Warning: Please read, understand, and follow all safety information contained in these instructions prior to the use of this tool. Failure to follow the warnings and instructions may result in serious injury. The term “power tool” in the warnings refers to your Griot’s Garage THE BOSS™ AIR Micro Rotary Polisher. Retain these instructions for future reference.

⚠ Warning: Do not operate tool in water or in an excessively wet environment.

⚠ Warning: Do not use disc pads that have a Max RPM less than the tool’s Max RPM rating.

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 may 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. Personal Safety

- a) Practice safety requirements. Work alert, have proper attire, and do not operate tools under the influence of alcohol or drugs.
- b) Operators and other personnel must always wear protection for eyes, ears, and respiratory protection when in the work area or while operating this product. Follow your employer’s safety policy for PPE’s and/or ANSI Z87.1 or local/national standards for eye-wear and other personal protective equipment requirements.
- c) Wear protective apparel, taking into consideration the type of work being done.
- d) Never exceed marked maximum input pressure (90psi / .62Mpa / 6.2Bars).
- e) Stay alert, watch what you are doing, and use common sense when operating power tool. A moment of inattention while operating power tool may result in serious personal injury.
- f) 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.
- g) Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces.

3. Power Tool Usage Safety

To reduce the risk associated with pneumatic pressure and other mechanical hazards:

- a) This power tool is 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 serious injury.
- b) Do not use accessories which are not specifically designed and recommended

- by Griot's Garage. Just because the accessory can be attached to the power tool does not assure safe operation.
- c) Do not use damaged buffing pads and accessories on power tool. Compromised accessories can fail and cause injury.
 - d) Disconnect the power tool from air 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) 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.
 - f) 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.
 - g) Keep hands, hair and clothing away from the working end of the tool.
 - h) Do not touch the rotating parts during operation for any reason.
 - i) Never operate this tool without all guards or safety features in place and in proper working order.
 - j) Be aware that incorrectly installed hoses and fittings might unexpectedly come loose at any time and create a whipping/impact hazard.
 - k) If you notice any abnormal noise or vibration when operating the product, immediately discontinue its use and inspect for worn or damaged backup pad. Replace any damaged parts. If abnormal noise or vibration still exists, return for service or repair. Refer to warranty instructions.

POWER TOOL SET-UP

4. Installing The Rotary Backing Plate:

- a) Disconnect air line from buffer.
- b) Place supplied wrench on output shaft.
- c) With compression washer installed, align threaded hub of backing plate to THE BOSS™ female hub.
- d) Turn the backing plate clockwise by hand, tighten firmly.

5. Removing & Mounting Buffing/Disc Pad

- a) Disconnect air line from buffer.
- b) Peel the old buffing pad from the backing plate, by lifting an edge and pulling firmly upward.
- c) Inspect the hook material on the disc pad for damage or debris clogging the hooks. Clean any debris or buffing compound from the backing plate surface.
- d) Attach a new buffing pad to the backing plate, being careful to center it as well as possible.
- e) Apply hand pressure to engage the hook and loops to firmly seat the buffing pad.

6. Setting Tool Speed

Set maximum speed (RPM) by applying an appropriate flat-blade screwdriver to speed control on top of tool handle. Set screwdriver aside, turn machine on to verify appropriate speed using a non-surface tachometer. Never exceed more than 2,500 rpm free-spin. Set speed control prior to use, as conditions may vary.

⚠ Warning: Disconnect air line from buffer.

⚠ Warning: An inadequately tightened backing plate could cause the threaded spindle to break causing damage to the tool and work-piece and possible injury to the operator or bystanders.

6. Power Tool Specifications

Type	Air Micro Rotary Polisher
Motion	Rotary – Direct Drive
Pad Size	2" (51mm) or 3" (76mm) Included
Spindle Mounting Hole Size	5/16" - 24 Female
hp (W)	.3 (224)
Free Speed RPM	0 - 3,500 +/-10%
RPM Max	3,850 RPM
Air Consumption, Free Speed	3 cfm x 7.122 = 21.37 scfm
Max Air Flow @ 90 PSIG	3CFM(L/Min.): 21.37 scfm (84.9 L/min)
Recommended air pressure	6.2 bar (90 psi)
Hose I.D. Size Inches (mm)	3/8" (10mm)
Rotor Material	SNCM21
Weight	2.2 lbs. / 1kg
Dimensions	263mm (L) x 65mm (W) x 40mm (T)
*Noise Level dBA Pressure	78.1 dB(A) LpA / 89.1 dB(A) LwA
**Vibration Level m/s ²	<2.5 m/s ²

* Declared noise levels; measurements carried out in accordance with standard EN ISO15744:2008.

** Declared vibration levels in accordance with EN 28927-3, the uncertainty, K=0.6 m/s².

IMPORTANT NOTE: The noise and vibration values stated in the table are from laboratory testing in conformity with stated codes and standards and are not sufficient risk evaluation for all exposure scenarios. The actual exposure values and amount of risk or harm experienced to an individual is unique to each situation and depends upon the surrounding environment, the way in which the individual works, the particular material being worked, work station design, as well as upon the exposure time and the physical condition of the user. Griot's Garage cannot be held responsible for the consequences of using declared values instead of actual exposure values for any individual risk assessment.

EC DECLARATION OF CONFORMITY

We, Griot's Garage Inc. 3333 South 38th St. Tacoma, WA 98409 declare under our sole responsibility that the product to which this declaration relates, is in conformity with the requirements of Machinery Directive of 2006 on the approximation of the laws of the Member States relating to machinery (2006/42/EC).

Type: SG-0435F RIGHT ANGLE BUFFER

And comply with the provisions set out in the following European Standard:

1. ISO 12100: 2010 (Risk Assessment & Risk Reduction)
2. ISO 11148-8: 2010 (Safety Requirements)
3. EN 28927-3: 2009 (Vibration level)
4. ISO15744:2008 (Noise level)

For EC Declaration of Conformity, please contact Griot's Garage Customer Service at 1-800-345-5789.

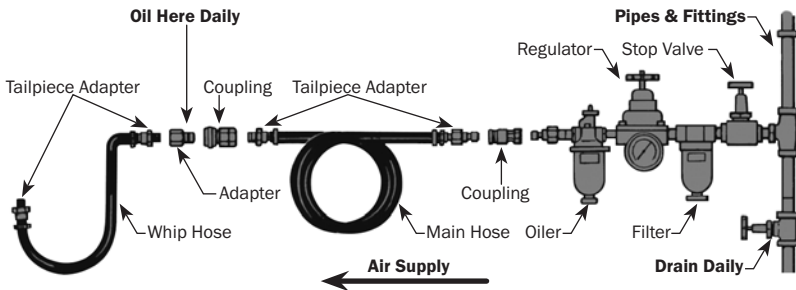
7. Operating & Maintenance Instructions

Prior to tool operation

The tool is intended to be operated as a hand held tool. It is always recommended that while using the tool, operators stand on a solid floor, in a secure position with a firm grip and footing. Be aware that the tool can develop a torque reaction. See the section “SAFETY PRECAUTIONS.”

⚠ Please Note: Use a clean lubricated air supply that will give a measured air pressure at the tool of 6.2 bar (90 psig) when the tool is running with the lever fully depressed. It is recommended to use an approved 10 mm (3/8 in) x 15.24m (50 ft) maximum length air line.

Connect the tool to the air supply as shown in Figure 1. Do not connect the tool to the air line system without an easily accessible air shut off valve. It is strongly recommended that an air filter, regulator, and lubricator (FRL) be used as shown in Figure 1 as this will supply clean, lubricated air at the correct pressure to the tool. In any case where the supply pressure exceeds the marked maximum of the tool, appropriate air pressure regulators should be used while operating this tool.



It is recommended that the air pressure at the tool be 6.2 bar (90 psig) while the tool is running so the maximum RPM is not exceeded. The tool can be run at lower pressures but should never be run higher than 6.2 bar (90 psig). If run at lower pressure the performance of the tool is reduced.

Maintenance

⚠ Caution: Always disconnect tool from air supply prior to maintenance.

- Before using Griot's Garage THE BOSS™ AIR Micro Rotary Polisher, it is recommended to add four to five drops of air tool oil into the air inlet opening and 1-2 drops following every 3-4 hours of use.
- Clean plastic and rubber parts with a soft, damp cloth. NEVER use solvents to clean plastic parts. Griot's Garage Interior Cleaner is an effective solution.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

8. Frequently Asked Questions

- Q:** What is the optimal speed setting for my THE BOSS™ AIR Micro Rotary Polisher?
- A:** For optimal paint correction or defect removal it is best to use a non-contact tachometer to measure Rotations Per Minute – RPM. It is best not to exceed 2,500 rpm- free-spin. Set speed control on top of handle using a flat screwdriver to set the optimum/maximum speed.
- Q:** What is the minimum required compressor capacity?
- A:** Select an air compressor which will deliver adequate air pressure to supply 3cfm @ 90psi. Ensure your compressor is equipped with an air regulator to ensure safe operation. Never run tool without an air regulator.
- Q:** What paint care liquids will deliver paint perfection?
- A:** BOSS Creams were originally developed for orbital use. Due to the small rotary footprint, they perform excellently with THE BOSS AIR Micro Rotary Polisher. Always select the least invasive method and test a 1'x1' area. Assess the results, make appropriate adjustments to your pad and liquid choice to ensure you achieve your goals. Should more correction be required, repeat by making more passes then reassess. If correction has still not been attained use the most aggressive pad before moving up to a more aggressive polish/compound.
- Q:** What buffing pads are recommended?
- A:** THE BOSS AIR Micro Rotary Polisher performs excellently with all Griot's Garage 3" and 4" Foam Buffing Pads. Select BOSS 3" Foam Pads for most aggressive polishing action. BOSS Microfiber pads featuring tuned-foam interface may be used, but will require frequent cleaning with a Pad Conditioner Brush and/or compressed air via a regulatory approved air nozzle.
- Q:** What is the best method of cleaning microfiber and foam pads?
- A:** Following each buffing cycle, clean pad by running against a Pad Conditioner Brush at low speed. Should compressed air be available, blow the pads out following each panel you work on. At the conclusion of the session, rinse pads under warm water and spray with Microfiber & Foam Pad Cleaner. Knead pad to induce foaming. Allow to dwell for 10 minutes, then rinse thoroughly. Allow to air dry and store in cool, dry place.
- Q:** What backing plate size is compatible with THE BOSS AIR Micro Rotary Polisher?
- A:** The tool comes with both a 2" and 3" Rotary Backing Plate. The 3" is more appropriate for sail panels, bumpers, mirrors, etc. The 2" is ideal for more compact areas which require precision correction.
- Q:** What type of air hose is recommended?
- A:** We recommend Griot's Garage Professional Air Hose, 50-foot (Maximum length). It features a field repairable 3/8" diameter hose and top-quality anodized aluminum 1/4" NPT fittings. The hose's ultra-lightweight, tough hybrid polymer construction obediently coils up for easy storage. (Release all air pressure prior to winding for best results.)
- Q:** What are the recommended maintenance requirements of my THE BOSS AIR Micro Rotary Polisher?
- A:** Before using THE BOSS AIR Micro Rotary Polisher, it is recommended to add 4 - 5 drops of air tool oil in the air inlet opening and one or two drops following every 3 - 4 hours of use. An automatic inline tool oiler is recommended.

9. THE BOSS™ AIR Micro Rotary Polisher Accessories



3" BOSS Pads

BMF3 BOSS 3" Microfiber Pads
B110F3 BOSS 3" FAST Correcting Foam Pads
B120F3 BOSS 3" Correcting Foam Pads
B130F3 BOSS 3" Perfecting Foam Pads
B140F3 BOSS 3" Finishing Foam Pads



3" Foam Pads

11241 3" Orange Foam Correcting Pads, Set of 3
11274 3" Black Foam Finishing Pads, Set of 3
11263 3" Red Foam Waxing Pads, Set of 3



4" Foam Pads

11266 4" Orange Foam Correcting Pads, Set of 3
11275 4" Black Foam Finishing Pads, Set of 3
11281 4" Red Foam Waxing Pads, Set of 3



BR3BP 3" BOSS AIR
Rotary Backing Plate



BR2BP 2" BOSS AIR
Rotary Backing Plate

Product Use

All statements, usage recommendations, and technical information contained in this manual are based on tests or development that Griot's Garage has deemed reliable. However, many factors beyond Griot's Garage's control can affect the use and performance of this Griot's Garage product in a certain application, including conditions under which the Griot's Garage 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 Griot's Garage product to determine whether it is suitable for a particular purpose and the user's method of application.

Warranty

- **Griot's Garage Lifetime Guarantee** - Griot's Garage 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.
- **Six Month Satisfaction Guarantee** - We want you to enjoy our quality product and have fun with it! If you're not 100% satisfied for any reason within six months of purchase, return it to point of sale with proof of purchase for a full refund or credit.
- **Two Year Comprehensive Warranty** - With online warranty registration, Griot's Garage will facilitate replacement of worn parts caused by normal use, without charge, anytime during the two years from date of purchase. We will repair it or replace it, or credit purchase price if we are able to do neither.

Exclusions

- The Two Year Comprehensive Warranty is void should your tool experience damage caused by failure to follow the recommended maintenance, misuse, alteration or abuse.
- Griot's Garage 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.
- Griot's Garage is not responsible for any incidental or consequential damages.

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 BOSS Best Of Show System products, or for a complete selection of Griot's Garage products, please call us toll-free at 800-345-5789, email us at sales@griotsgarage.com, or go to www.griotsgarage.com/BOSS.

Have fun in your garage!

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