



THE BOSS™

THE POWER TO ACHIEVE PERFECTION



User's Manual and Care Instructions For THE BOSS G15 & G21 Long-Throw Orbitals



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 long-throw orbit, it does more work per revolution for faster, more effective correction, finishing, and sealing. 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 G15 and G21 Long-Throw Random Orbitals are designed to be used as polishers. They are designed to be used with Griot's Garage backing plates, appropriate Griot's Garage Best Of Show System (BOSS) Foam or Micro Fiber 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 G15 and G21 Long-Throw Random Orbitals are not sanders, grinders, or cut-off tools. Use in any unapproved manner or with inappropriate accessories could lead to unsafe operating conditions.

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



Read And Follow
Use Instructions



Wear Proper Eye
Protection



Wear Respiratory
Protection



Wear Gloves



Wear Proper
Hearing Protection

GENERAL POWER TOOL SAFETY WARNINGS

⚠ Warning: Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or other serious injury. The term “power tool” in the warnings refers to your Griot’s Garage THE BOSS G15 and G21 Long-Throw Random Orbital.

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) If operating power tool in a damp location is unavoidable, use a Ground Fault Circuit Interrupter (GFCI) protected power supply.

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 or Right-Angle Handle accessory, sold separately. 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 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 electric shock, fire, and/or 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 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 the 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. Power Tool Specifications

Type	G15	G21
Orbit	15mm	21mm
Power Output (Watts)	900W	
Power Output (Amperes)	7.5A	
Orbits Per Minute (OPM)	0 - 5,000	
Cord Length	13'	
Tool Length	15 5/8"	
Weight	5.14 lbs.	5.15 lbs.
Electronic Speed Control	Yes	Yes
Variable Speed Trigger	Yes	Yes
Factory Installed Backing Plate	5"	6"

Approved Accessories:

G15-15mm Long-Throw Orbital:

- BOSS 5" Backing Plate-BG5BP (Installed)
- BOSS 6" Backing Plate-BG6BP

G21-21mm Long-Throw Orbital:

- BOSS 6" Backing Plate-BG6BP (Installed)
- BOSS 5" Backing Plate-BG5BP

Secure Backing Plate:

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

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.

The power tool is configured with the backing plate mounted directly to the drive hub. In this configuration, the rubber shroud engages with backing plate to limit pad rotation. This is the safest configuration and recommended for most users.

Washer Modification (Optional)

Should increased defect removal be desired, spacing backing plate away from rubber shroud will induce faster pad rotation. Remove backing plate and insert supplied washer in between backing plate hub and tool output shaft. Ensure backing plate hub is aligned with output shaft. Then follow backing plate installation instructions.



Installing BOSS Buffing Pad And Usage Recommendations

- Inspect pad (micro fiber or foam) prior to installation.
- ⚠ CAUTION:** DO NOT use torn or worn out pads.
- Unplug power tool prior to buffing pad installation.
- Center pad on backing plate and press firmly around pad.
- Never run machine when pad is not resting on the vehicle's surface.
- 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

- Remove pad from machine and pre-rinse with warm water after each use.
- Spray Griot's Garage Micro Fiber and Foam Pad Cleaner on the entire pad face.
- Gently knead the pad until you create a rich lather. This cleaning action frees the pad of any compound or wax residue.
- Rinse thoroughly with warm water and wring out, or machine wash.
- Allow pad to dry completely before use. Store dry pad in the supplied BOSS packaging.

PROPER USAGE

7. Starting And Stopping The Power Tool

Note: Prior to application, it is recommend that all plastic and metal trim on vehicle be taped off using Professional Masking Tape for 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 be 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 #4 or #5 is recommended. For application of waxes and sealants a speed setting of #2 or #3 is recommend. The #1 setting sets the maximum speed at 1,800 orbits per minute. Setting #6 puts the max speed at 5,000 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.

Side-Handle Mounts – Attachment points for optional D-Handle or Right-Angle Handle.

Variable Speed Dial – Controls the maximum speed of the tool.



Trigger Lock Button – Locks trigger so tool runs continuously.

Variable Trigger Throttle – Progressively controls engine speed from zero to the maximum speed setting.

MAINTENANCE

8. Service And Care

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

- a) Regularly clean the power 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 with a soft, damp cloth. NEVER use solvents to clean plastic parts. Griot's Garage Interior Cleaner is an effective solution.
- c) 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.
- d) Have your 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 Griot's Garage for replacement cords and/or service.

Brush Replacement

Brushes are wear items and normal wear is not covered under warranty. The power tool comes with a spare set of replacement brushes.

- a) Remove Brush Side-Port plugs from both sides of tool using a small flathead screwdriver, turning counter-clockwise.
- b) Grasp brass brush pressure plates and retrieve brushes from tool. Discard appropriately.
- c) Install replacement brushes into brush port.
- d) Insert the Brush Side-Port plug and rotate clockwise by hand.
- e) Tighten Brush Side-Port plug using the flathead screwdriver. Do not overtighten!



Lubrication

THE BOSS tool comes pre-lubricated at the backing plate-to-shroud contact point. This area should be lubricated every 100 hours of operation to ensure smooth operation and a long service life. Apply supplied grease to black shroud (highlighted in yellow at right) then follow backing plate installation instructions noted in section 6.



OPTIONAL HANDLE ATTACHMENT ACCESSORIES

THE BOSS features two optional handle configurations available for individual purchase. Disconnect the power tool plug from the power prior to handle attachment installation.

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

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

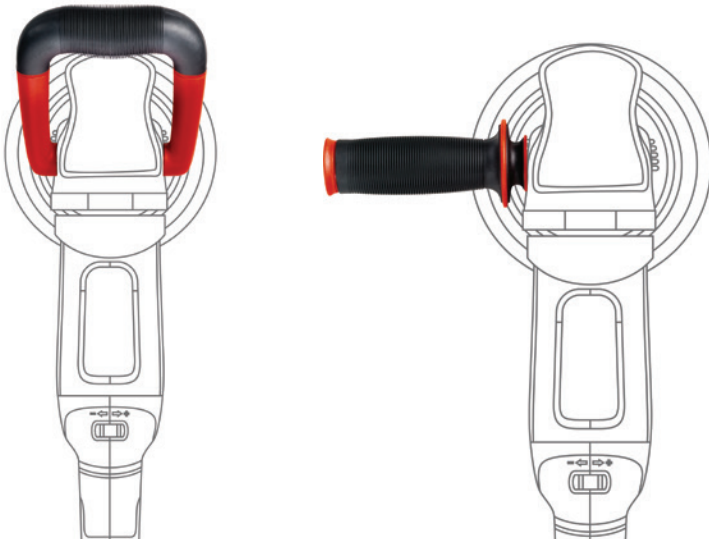
Right-Angle Handle

This handle may be installed on either side of the tool, depending on user preference, for added control and comfort. It features an energy dampening rubber grip.



Installing Right-Angle Handle

- Select handle position and remove black cap by turning counterclockwise using a wide flathead screwdriver.
- Thread Right-Angle Handle attachment into machine and securely tighten.



9. BOSS Accessories

BOSS Buffing Pads and Accessories

BOSS accessories are designed to complement THE BOSS G15 and G21 Long-Throw Random Orbitals. They're engineered to compliment the tool's counterbalance assembly to deliver smooth operation.



5.5" BOSS Pads

(Red/Blk) BOSS Micro Fiber Pad..... BMF5
 (Wht) BOSS FAST Correcting Foam Pad.... B110F5
 (Orng) BOSS Correcting Foam Pad..... B120F5
 (Ylo) BOSS Perfecting Foam Pad..... B130F5
 (Blk) BOSS Finishing Foam Pad B140F5



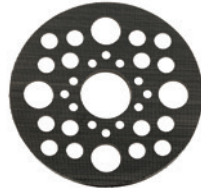
6.5" BOSS Pads

(Red/Blk) BOSS Micro Fiber Pad..... BMF6
 (Wht) BOSS FAST Correcting Foam Pad.... B110F6
 (Orng) BOSS Correcting Foam Pad..... B120F6
 (Ylo) BOSS Perfecting Foam Pad..... B130F6
 (Blk) BOSS Finishing Foam Pad B140F6



5.5" Innerflex Pad (Reduces Aggressiveness)

BOSS Innerflex Pad BIP5



6.5" Innerflex Pad (Reduces Aggressiveness)

BOSS Innerflex Pad BIP6



5" Backing Plate

BOSS 5" Backing Plate BG5BP



6" Backing Plate

BOSS 6" Backing Plate BG6BP



D-Handle Attachment

BOSS D-Handle BGDH



Right-Angle Handle Attachment

BOSS Right-Angle Handle BGRAH

10. 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.

11. 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 either repair it or replace it or credit your 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.
- 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 Griot's Garage Customer Service for more details. A parts diagram is available for download at griotsgarage.com.

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.

Have fun in your garage!®

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