



# TORNADOR® BLACK PNEUMATIC CLEANING TOOL

Thank you for selecting this quality Griot's Garage product. Your **TORNADOR® BLACK PNEUMATIC CLEANING TOOL** has been engineered and manufactured to meet Griot's Garage's high standards for dependability, ease of operation, and operator safety. When properly cared for, it will give you years of trouble-free performance.

## PLEASE READ ALL INSTRUCTIONS & SAVE FOR FUTURE REFERENCE

Carefully read through this entire owner's manual before using your **TORNADOR® BLACK PNEUMATIC CLEANING TOOL**. Pay close attention to the Safety Requirements, Useful Directions, Air Requirements, Warnings, and Care & Maintenance sections. If you use your Cleaning Tool properly and only for what it is intended, you will enjoy years of safe, reliable service.

## USEFUL DIRECTIONS

Always test a small inconspicuous area to ensure chemical being used will not alter the appearance of the material you are cleaning.

## CLEANING FABRIC

1. Remove large debris and vacuum area to be cleaned.
2. With air hose disconnected, remove sprayer/lid from supply cup. Add Griot's Garage Interior Cleaner to reservoir. Secure sprayer/lid to reservoir and connect air supply.
3. Turn liquid valve to vertical position; using a smooth overlapping motion, spray area to be cleaned from the bottom up. Allow the Interior Cleaner to dwell on the surface 10-15 seconds. For severe contamination, gently scrub fabric with Griot's Garage Ergo Wave Foam Scrubber or Nylon Carpet & Upholstery Brush.
4. Follow with an application of air only, by turning valve to horizontal position. Begin with smooth overlapping motion followed with a wipe, using Griot's Garage Micro Fiber Interior Cloth.

## CLEANING DASHBOARD AND HARD SURFACES (FOR USE ON PLASTIC, VINYL & LEATHER)

1. Recommended air pressure set @ 78 psi.
2. With air hose disconnected, remove sprayer/lid from supply cup. Add Griot's Garage Interior Cleaner to reservoir. Secure sprayer/lid to reservoir and connect air supply.
3. Protect sensitive components with a towel to prevent inadvertent exposure. (Electrical components, monitors & clear plastics)
4. Turn liquid valve to vertical position, using a smooth overlapping motion, spray area to be cleaned. Follow with an application of air only, by turning valve to horizontal position. Afterward, wipe down using a Griot's Garage Micro Fiber Interior Cloth.

## WHEEL CARE

1. Clean one wheel at a time. Pre-rinse cool wheel with strong spray of water. (Wheel must not be hot.)
2. Set air pressure set @ 78 psi.
3. With air hose disconnected, remove sprayer/lid from supply cup. Add Griot's Garage Heavy-Duty Wheel Cleaner or Wheel Cleaner to clean reservoir. Secure sprayer/lid to reservoir and connect air supply.
4. Turn liquid valve to vertical position; using a smooth overlapping motion, spray area to be cleaned from the bottom up. Allow the Heavy-Duty Wheel Cleaner or Wheel Cleaner to dwell on the surface for a minute. For severe contamination, gently scrub wheel with Griot's Garage Ergo Wave Foam Scrubber, Three-Finger Detail Mitt, Long-Reach Brushes, or Micro Fiber Wand. Rinse wheel with clean water until runoff is clear.

## ENGINE CLEANING

1. Ensure vehicle is not running. Make sure engine bay is warm to the touch. Pre-rinse with high pressure water.
2. Set air pressure @ 78 psi.
3. With air hose disconnected, remove sprayer/lid from supply cup. Add Griot's Garage Engine Cleaner to clean reservoir. Secure sprayer/lid to reservoir and connect air supply.
4. Turn liquid valve to vertical position; using a smooth overlapping motion, spray area to be cleaned. Move tool closer to surface to blast away harsh contaminants and further from surface for light contaminant or delicate areas. For severe contamination gently scrub surface with Griot's Garage Ergo Wave Foam Scrubber, Boar's Hair Detailing Brush, Micro Fiber Wheel Wands, Bendable Wheel Brush, or other tool. Rinse surface with water or wipe dry with clean micro fiber cloth.

## CARE & MAINTENANCE

- Avoid dropping the gun on the floor, disconnect from airline when not in use.
- Turn liquid valve to the horizontal position following use to avoid leakage.
- Tighten the jar while holding the lid to avoid loosening or stripping gun assembly.
- Tornador® Black performs best with pH neutral - moderately alkaline formulas. Use of low pH acidic cleaners or high pH cleaners & degreasers is not recommended.
- Maintain the cleaning cone by removing and soaking in warm water.
- Avoid excessive air pressure, using maximum pressure of 90 psi. Exceeding 90 psi may cause premature wear on the cone and assembly.

NOTE: After each use, place nozzle 2-3 inches in a bucket of soapy water while compressing the trigger once or twice to quickly remove common dirt buildup in the cone. This will prevent premature wear.

## TROUBLESHOOTING

### Problem:

- Tip will not oscillate
- Tip moves slowly
- Tip drips fluid
- Will not dispense liquid

### Solution:

- Check for low air pressure
- Check for dirt build-up and clean
- Keep liquid valve in the horizontal position when not in use
- Check pickup tube for debris and rinse out

## SAFETY REQUIREMENTS

### **WARNING:**

- The Tornador® Black can generate considerable noise from air pressure. Please wear hearing protection at all times.
- When using the Tornador® Black, small pieces of debris can become airborne. Wear eye protection to prevent injury.
- The Tornador® Black nebulizes the cleaning liquid. Wear appropriate respiratory protection to prevent inhalation.
- Use in well-ventilated area.
- Do not exceed 90 psi. Utilize an in-line pressure regulator when necessary.
- Do not use with acidic, flammable, or combustible products.
- Do not point cleaning tool at face or body.
- Avoid breathing dust or handling debris that can be harmful to your health.
- Use caution when other people are in your work area.
- Disconnect the tool from the air supply when not in use, before changing accessories, or when performing routine maintenance.
- Always check the tool for leaking hoses, loose fittings, or damaged parts.
- Should a tool malfunction be observed, discontinue use and contact your supplier.
- We recommend that you never clean any safety related components with the Tornador® Black, i.e., safety belts, electrical or electronic modules.
- **KEEP OUT OF THE REACH OF CHILDREN!**

## AIR REQUIREMENTS

The Tornador® Black requires a minimum air pressure of 78 to 90 psi, constant, for optimum performance. DO NOT EXCEED 90 psi. **NOTE:** Constant air supply may vary depending on compressor size and capabilities. Always make sure tank and air lines are free from oil and water contamination.

Limitation of Liability: Except where prohibited by law, Griot's Garage will not be liable for any loss or damage arising from the Griot's Garage product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted.

## ANSWERS TO YOUR QUESTIONS

Should you have any comments or questions about the use of your **TORNADOR® BLACK PNEUMATIC CLEANING TOOL** (90562), our Customer Service Department can be reached by phone at 800-345-5789 or by email at [info@griotsgarage.com](mailto:info@griotsgarage.com). For a complete selection of products or to receive a free Griot's Garage Handbook, please call us or visit us at [www.griotsgarage.com](http://www.griotsgarage.com).

*Have fun in your garage!®*

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