



# PROFESSIONAL 3" RANDOM ORBITAL

*Spectacular Results That Are Quick & Safe*



## SPECIFICATIONS

Motor:	2 Amps, 240 watts
Power Supply	120 Volts, 60 Hz
Orbits/Minute:	5,000 - 10,000
Pad Size:	3"
Orbit Diameter:	1/8"
Weight:	2.6 lbs.

**THANK YOU FOR CHOOSING THIS QUALITY  
GRIOT'S GARAGE PRODUCT.**

Your new Professional 3" Random Orbital is engineered and manufactured to GRIOT'S GARAGE'S high standard for dependability, ease of operation and operator safety. Properly cared for, it will give you years of trouble-free performance.



*Perfect on chrome!*



*Great for Motorcycle detailing*



*Easily polish or wax smaller areas on your vehicle.*



**CAUTION: CAREFULLY READ THROUGH THIS  
ENTIRE OWNER'S MANUAL BEFORE USING  
YOUR PROFESSIONAL 3" RANDOM ORBITAL.**

Pay close attention to the Useful Information for Safe Operation, Warnings, and Cautions. If you use your Professional 3" Random Orbital properly and only for what it is intended, you will enjoy years of safe, reliable service.

*Have fun in your garage!®*

## USEFUL INFORMATION FOR SAFE OPERATION

The purpose of safety rules is to make you aware of possible dangers. The safety symbols and the explanations with them, require your careful attention and understanding. The warnings do not by themselves eliminate any danger. The instruction or warnings they give are not substitutes for proper accident prevention measures.



**SAFETY ALERT SYMBOL.** Indicates caution or warning. May be used in conjunction with other symbols or pictures.



**WARNING:** Failure to obey a safety warning can result in serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.



**WARNING:** Do not attempt to operate this tool until you have thoroughly read and understood completely, safety rules, etc. contained in this manual. Failure to comply can result in accidents involving fire, electric shock or serious personal injury. Save owners manual and review frequently for continuing safe operation and instructing others who may use this tool.



### **CAUTION: ALWAYS WEAR EYE & EAR PROTECTION WITH ANY POWER TOOL.**

The operation of any tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields.

**KNOW YOUR POWER TOOL.** Read this owners manual carefully. Learn its applications and limitations as well as the specific potential hazards related to this tool.

**GUARD AGAINST ELECTRICAL SHOCK BY PREVENTING BODY CONTACT WITH GROUNDED SURFACES.** For example, but not limited to: pipes, radiators, ranges, refrigerator enclosures.

**KEEP WORK AREA CLEAN.** Cluttered areas, floors and benches invite accidents.

**AVOID DANGEROUS ENVIRONMENTS.** Don't use power tools in damp or wet locations or expose to rain. Keep work area well lit.

**KEEP CHILDREN AND VISITORS AWAY.** Visitors should wear safety glasses and be kept a safe distance from work area. Do not let visitors contact tool or extension cord, especially while in use.

**STORE IDLE TOOLS.** When not in use, tools should be stored in a dry and high or locked cabinet, out of reach of children.

**DON'T FORCE TOOL.** It will do the job better and safer at the rate at which it was designed.

**DRESS PROPERLY** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Also wear protective hair covering to contain long hair.

**PROTECT YOUR LUNGS.** Wear a dust mask if operation is dusty.

**PROTECT YOUR HEARING.** Wear hearing protection during extended periods of operation.

**DON'T OVERREACH.** Keep proper footing and balance at all times. Do not use tool on a ladder or unstable support. Secure tools when working at elevated levels.

**MAINTAIN TOOLS WITH CARE.** Keep tools clean for better and safer performance. Follow instructions for changing accessories.

**NEVER USE IN AN EXPLOSIVE ENVIRONMENT.** Normal sparking of the motor could ignite fumes.

**KEEP HANDLES DRY, CLEAN AND FREE FROM OIL AND GREASE.** Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum based products, or any strong solvents to clean your tool.

**STAY ALERT AND EXERCISE CONTROL.** Watch what you are doing and use common sense. Do not operate tool when you are tired. Do not rush operation of tool.

**CHECK DAMAGED PARTS.** Before further use of the tool, a guard or any other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mount-

ing and any other conditions that may affect its operation. A guard or any other part that is damaged should be properly repaired or replaced by an authorized service center.

**DO NOT USE TOOL IF ON/OFF SWITCH IS DEFECTIVE OR DOES NOT OPERATE CORRECTLY.** Have defective switches replaced by an authorized service center.

**DO NOT OPERATE THIS (OR ANY) TOOL WHILE UNDER THE INFLUENCE OF DRUGS, ALCOHOL OR ANY MEDICATION PACKAGED WITH WARNING LABELS.**

**THE ORBITAL IS NOT MEANT FOR USE BY YOUNG OR INFIRM PERSONS WITHOUT SUPERVISION. YOUNG CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE ORBITAL.**

**GRIOT'S GARAGE IS NOT RESPONSIBLE FOR ANY MISUSE OF THE PROFESSIONAL 3" RANDOM ORBITAL FOR ANY INJURY OR DAMAGE INCURRED TO ANY PERSON OR OBJECT RELATED TO THE PROFESSIONAL RANDOM ORBITAL.**

**PLEASE SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE**

## FEATURES AND CAUTIONS

Your orbital is suitable for polishing and waxing with GRIOT'S GARAGE polishes. It will produce a swirl-free finish. Use it with **BEST OF SHOW® WAX** and **PAINT SEALANT** too!

Before attempting to use your orbital, familiarize yourself with all operating features and safety requirements.

### POWER SWITCH

The power switch is located on the top of the unit. Slide the switch forward to turn the orbital on. Slide it back to turn it off.

### SPEED CONTROL DIAL

The variable speed control dial is located at the back of the unit just above the power cord. To adjust the speed simply rotate the dial to the desired setting. For polishing and paint sealant application speed setting 5 to 6 is recommended. For waxing speed setting 3 to 4 is recommended.

### INSTALLING POLISHING/WAXING PADS

- Inspect polish and/or wax pad before installing. **DO NOT** use torn or worn out pads.
- Unplug your orbital.
- Center pad on backing plate and press firmly around pad.



**WARNING:** Your orbital should never be connected to power supply when you are assembling parts, making adjustments, assembling or replacing pads, cleaning or when not in use.



**CAUTION:** Be careful not to let your hand completely cover air vents.



**WARNING:** Unsecured pad could be thrown towards the operator causing injury.

For ease of operation, your orbital has a loop handle for two-handed operation, which helps to maintain proper control. During operation, always use both hands.

Hold your orbital in front and away from you, keeping it clear of the vehicle. Start your orbital by sliding the switch forward while holding the pad against the surface to be polished or waxed.



## USING YOUR PROFESSIONAL 3" RANDOM ORBITAL

Thank you for choosing this fine product from GRIOT'S GARAGE. Your Professional Professional Random Orbital is perfect for the weekend user or the professional detailer. It was designed with enough torque so it won't bog down and stall like other random orbitals. The ergonomic design allows for greater comfort and control. Enjoy the best!

### BEFORE YOU MACHINE POLISH

Always start off by using GRIOT'S GARAGE Paint Cleaning Clay (Item 11153) before machine polishing and paint pealant application. paint cleaning clay will remove contaminants embedded in the paint that even a machine polish may have trouble removing. This way you aren't relying on the polishes and sealants to clean the paint. Polishes are designed to reduce and remove swirl marks, light scratches and paint blemishes.

### ANALYZE YOUR PAINT BEFORE STARTING

Before polishing, start by analyzing your paint. Look at the swirl marks and scratches in the paint. How deep are they? Do they go into the primer, do they go half way down into the paint, or are they just light surface swirls caused by normal wear and tear? Keep in mind, to remove a swirl mark you must polish the paint in the surrounding area down to the base of the scratch. In many cases, if not all, it is much better to polish out the minor scratches while reducing the visibility of the deep ones. We have certain products that contain special fillers and waxes that do their best to fill in deeper scratches.

### THE SMOOTH FOAM PAD

Our specially developed foam pad, combined with our machine polishes waxes and sealants, allow the paint to remain cool. Cool paint eliminates the fear of burning through your finish. It is important to use a separate pad for

each machine polish, wax or sealant. This way, no contamination occurs between the pads. (You wouldn't want to use a polish pad to apply a final coat of wax!) The pads can be marked on the side with a permanent felt pen to keep them separated.

### OPERATION

Our Professional 3" Random Orbital operates in an orbiting motion while spinning around. (see diagram A) Start by centering the pad on the orbital's hook and loop backing plate. Apply your wax, polish or sealant to the pad as you would spread butter on a piece of bread. Spread it out with the tip of the bottle or your finger over the entire surface. (If you apply the polish to the pad in thin rings, the polish will leave thin "polished" rings over the surface of the paint, while other areas will remain unpolished.)

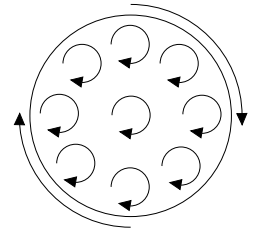


DIAGRAM A

To get comfortable using the GRIOT'S GARAGE Professional Random Orbital, I recommend setting the speed to three and then turn it on as the pad comes in contact with the paint's surface. Increase the speed gradually to four or five so that the backing plate is rotating at approximately one revolution per one or two seconds. The more you lean into the machine, the slower the rotation will be. Try not to lean into the machine until you feel comfortable with this system.

Different polishes and waxes will require different speeds. For example, GRIOT'S GARAGE Machine Polish 1 has more "bite". To remove deep swirl marks, it may be necessary to increase the speed to six. Your final waxes and sealants, on the other hand, may only require speeds three or four.

Make an imaginary square on the panel (normally I start with a  $\frac{1}{4}$  of a hood) and start in the upper left hand corner. Go across to the right (see diagram B) then drop down and go to the left. When you reach the left side, drop down and go to the right. When you can't go across the panel anymore, start going up and down in the same fashion.

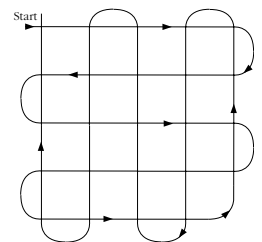


DIAGRAM B

What you are trying to do is distribute the polish, wax or sealant evenly and cover every part of the panel. Keep going in this motion until all of the liquid is evenly distributed and has just about disappeared. I like to pass over an area six to eight times. (Complete the imaginary square three or four times.) Wipe off the excess with a 100% cotton towel, our

100% Cotton Polishing Cloths (Item 14600) or one of our Micro Fiber Cloths and then examine your paint.

### **WHICH POLISH SHOULD YOU START WITH?**

Use our Orange Foam Pads for polishing. Use ultra-fine Machine Polish 4 if you have nearly flawless paint and only light swirls and towel marks. (Like new cars that are delivered from the dealer-ship.) It will eliminate those micro-fine towel marks and swirls, especially in dark paints.

For most surface conditions use GRIOT'S GARAGE Machine Polish 3. It is a polish that will remove many imperfections on the first pass. If you would like to remove even more imperfections, use Machine Polish 3 one more time. You may use Machine Polish 3 as often as you want

Use Machine Polish 2 or 1 to remove deeper scratches and swirl marks. After using Machine Polish 1 & 2, you may see minute scratches. This is normal. Remember, to remove a scratch, you have to get down to the bottom of the scratch, and that means removing paint (microns at a time) in the surrounding area. Your subsequent steps (Polish 1 to 2, then 2 to 3) will remove the minute scratches.

GRIOT'S GARAGE machine polishes are designed to work in steps. If you start out with Machine Polish 1, you must follow up with Machine Polish 2 to remove the minute scratches left behind by Machine Polish 1. After using Machine Polish 2, use Machine Polish 3 to remove the minute scratches left behind by Machine Polish 2. At this point you may want to use Machine Polish 3 again to further enhance the paint.

### **FINISHING UP**

After completing these steps, you have fully polished your paint and it is ready for protection. Now is the time to apply GRIOT'S GARAGE Best Of Show Wax®, Carnauba Wax or our Paint Sealant in the same manner as the polishes. Not much product is needed on the pad, and it is important to work it in evenly, using the same imaginary square technique (see diagram A). You will notice even more swirl marks disappear, the paintwork will be deeper in color, and the gloss will be enhanced. Work the wax or sealant in until you can hardly see any haze. Now buff it out by hand with one of our 100% Cotton Polishing Cloths or our Micro Fiber Cloth for a haze-free finish.

If using Best Of Show Wax® or Carnauba Wax, you may apply a second coat in the same manner for improved depth, color & gloss. When you are done, you will have a flawless finish that lasts longer and looks better than any other machine applied product on the market.

### **FOLLOW UP CARE**

After you have fully polished your paint, you may only need to use Best Of Show Wax® to maintain your paint's impeccable finish throughout the year or once a year with our Paint Sealant. To do this, just use the Paint Cleaning Clay first, follow up with the Best Of Show Wax® or Paint Sealant, and you're done! For fast clean-ups between waxes, try GRIOT'S GARAGE Speed Shine® or Spray-On Wax.

### **CLEANING YOUR FOAM PADS**

Cleaning your foam orbital pads is simple! First wet your pads with lukewarm water. Take some GRIOT'S GARAGE Micro Fiber & Foam Pad Cleaner and put a small amount on the pad. Take your fingers and lather up the pad, then squeeze the pad together, freeing the pad of the compounds and waxes. Rinse thoroughly and wring out. Dry out the pad by standing it up on its side.

### **OTHER TIPS TO HELP YOU**

- Always start with the least abrasive polish and work down. If your paint is in excellent shape, you may only need to use Machine Polish 3 or just Best Of Show Wax® or Paint Sealant. For paint that has been left to the elements for over a year or has mild oxidation, you may want to start off with Machine Polish 2 and then follow up with Machine Polish 3. Only use Machine Polish 1 when you are dissatisfied with the results of 2 & 3 and are trying to remove deep scratches.
- Try not to bear down on the orbital; let the machine and the polishes do the work. Start with a teaspoon of product to moisten the pad initially and then add more as needed to keep the pad moist for subsequent panels. Make sure you fully work the polish in so when it comes to wipe it off it is much easier. As for Best Of Show Wax® and Paint Sealant a little goes a long way.
- Do not use wool pads with this machine. Wool pads (and synthetic wool) should only be used to "knock down" paint after it has been freshly painted. Using a wool pad with the wrong compound can seriously damage otherwise good paint. Also, steer away from cotton pads. Polishing compounds can load up on a cotton pad, causing it, in some cases, to introduce new swirl marks!
- Regardless of what type of paint you have (from ultra-hard urethanes and newer clear coats to softer enamels and other single stage paints), you will be able to remove most any paint imperfection you desire. Our process may

- If any hazing has occurred, mist the surface with clean water and buff out with one of our 100% Cotton Polishing Cloths (Item 14600) or a Micro Fiber Cloth.
- To keep your paint looking sharp between washes, use GRIOT'S GARAGE Speed Shine® (Item 11146) or our Spray-On Wax (Item 11098). It is important to remove tree sap, bird droppings, acid rain and other contaminants as soon as possible.
- After your first experience you will see how easy it is to maintain your paint with the Professional Random Orbital and you will become an expert for your car's particular paint condition.

## **GRIOT'S GARAGE ORBITAL PRODUCTS**

### **GRIOT'S GARAGE MACHINE POLISH 1**

Our most aggressive polish that is still safe for any paint surface. I would not recommend going to a stronger compound than this. Removes moderate oxidation, water spots, deep swirl marks, stains and other paint defects. Use this product only after Machine Polish 2 has been tried. Follow up with Machine Polish 2 and 3 for a show finish.  
11161 Machine Polish 1, 16oz.

### **GRIOT'S GARAGE MACHINE POLISH 2**

A mild polish. Use Machine Polish 2 when Machine Polish 3 can't remove the deeper swirl marks. If you still can't take out heavy swirl marks and other paint imperfections, go on to Machine Polish 1. Removes light oxidation, mild water spots, swirls, stains and other minor paint defects.  
11162 Machine Polish 2, 16oz.

### **GRIOT'S GARAGE MACHINE POLISH 3**

To be used as a final polish after your paint has been cleaned with Paint Cleaning Clay or as a follow up after Machine Polish 2. May be used two, three, or four times in a row for ultra-safe swirl removal. Each time you use it, you will see more and more paint imperfections disappear. Always start with Machine Polish 3. If you can't remove the swirls and other contaminants, go on to Machine Polish 2. Follow up with Best Of Show Wax®, Carnauba Wax, or Paint Sealant.  
11163 Machine Polish 3, 16oz.

### **GRIOT'S GARAGE MACHINE POLISH 4**

Use ultra-fine Machine Polish 4 when you have nearly flawless paint and only have light swirls and towel marks. (Like new cars that are delivered from the dealership.) It will eliminate those micro-fine towel marks and swirls.  
11091 Polish 4 (Finest Polish), 16 oz.

### **GRIOT'S GARAGE BEST OF SHOW WAX®**

A natural, carnauba based liquid wax that offers unmatched depth, color enhancement, ease of use, and the ability to layer up to five coats at a time! May be used by machine or by hand. Lasts at least three to four months. For the finest possible finish, this is the wax to use.  
11171 Best Of Show Wax®, 16oz.

### **GRIOT'S GARAGE CARNAUBA WAX PASTE**

As soon you use our awesome Carnauba Wax Stick, you'll wonder why no one thought of this idea before! Now you can easily spread our Carnauba paste on our Red Wax Pads and use with our Random Orbital machines! Simply turn the knob at the bottom to expose the amount of wax you'll need, rub it across your wax pad and start enjoying the benefits of our paste wax without the hassle of digging it out of a container! An innovative way to use the very finest natural carnauba wax in the world. Works best when applied with our Red Foam Pads by either orbital machine or by hand and buffed with our Micro Fiber Wax Removal Cloths. Enjoy the best in paste wax protection!  
11085 Carnauba Wax Stick, 3.5 oz.

### **GRIOT'S GARAGE PAINT SEALANT**

Paint Sealant provides all the protection you need, yet still gives a high gloss finish that you only have to apply once a year. It's easy to use by hand or random orbital, and even easier to take off with hardly any residue! Paint Sealant has a small amount of polish to clean paint and help remove swirl marks. If you don't have the time to wax your car 3 to 4 times a year, park outside without a cover, drive your car through car washes occasionally, and want maximum protection from acid rain, fallout and bird droppings, then Paint Sealant is the product to use.  
11075 Paint Sealant, 16oz.

### **GRIOT'S GARAGE ONE-STEP SEALANT**

All the benefits of our ultra-durable Paint Sealant with gentle polishes added to remove scratches, oxidation and swirl marks while leaving behind protection for your paint for up to one year. Think of it as Paint Sealant with Machine 3 added for a true One-Step Sealant! The best way to apply it is with our Machine Orbital and Orange Polish Pads. You'll achieve spectacular results, while you remove oxidation, scratches, and swirls. Even when you use it by hand, the results are amazing. Color, depth and clarity plus long term protection in one easy step..  
11075 One-Step Sealant, 16 oz.

### **GRIOT'S GARAGE GLASS POLISH & FINE GLASS POLISH**

Fine Glass Polish is for mild spots that you normally see on your windshield, sunroof and side glass. Spots that are visible but hard to feel with your fingernails. For water spots



that normally occur on shower doors and that you can feel with your fingernails, we've introduced Glass Polish. It has more polishing compounds for heavily calcified deposits. Use either one periodically and your wipers will last longer! With our Machine Orbital you'll be amazed how fast your glass gets clean. For uncoated glass only. Enjoy crystal clear perfection. 11017 Fine Glass Polish, 16 oz.

#### **GRIOT'S GARAGE CHROME POLISH**

Griot's Garage Chrome Polish will not introduce any additional swirl marks or scratches and is easy to apply and take off. In test comparisons, Chrome Polish required the least amount of effort and produced superior results. A safe way to polish your chrome. Easily apply Chrome Polish with our Professional Random Orbital. 11132 Chrome Polish, 8 oz.

#### **GRIOT'S GARAGE PLASTIC POLISH**

To remove mild scratches and restore clarity to plastic windows, use Plastic Polish. I've restored plastic windows in convertible tops that, at first glance, I thought I might have to replace. Plastic Polish will remove minor scratches. Perfect to clean and bring damaged CDs back to life. 11186 Plastic Polish, 8oz.

#### **GRIOT'S GARAGE MINI ORANGE POLISH PADS**

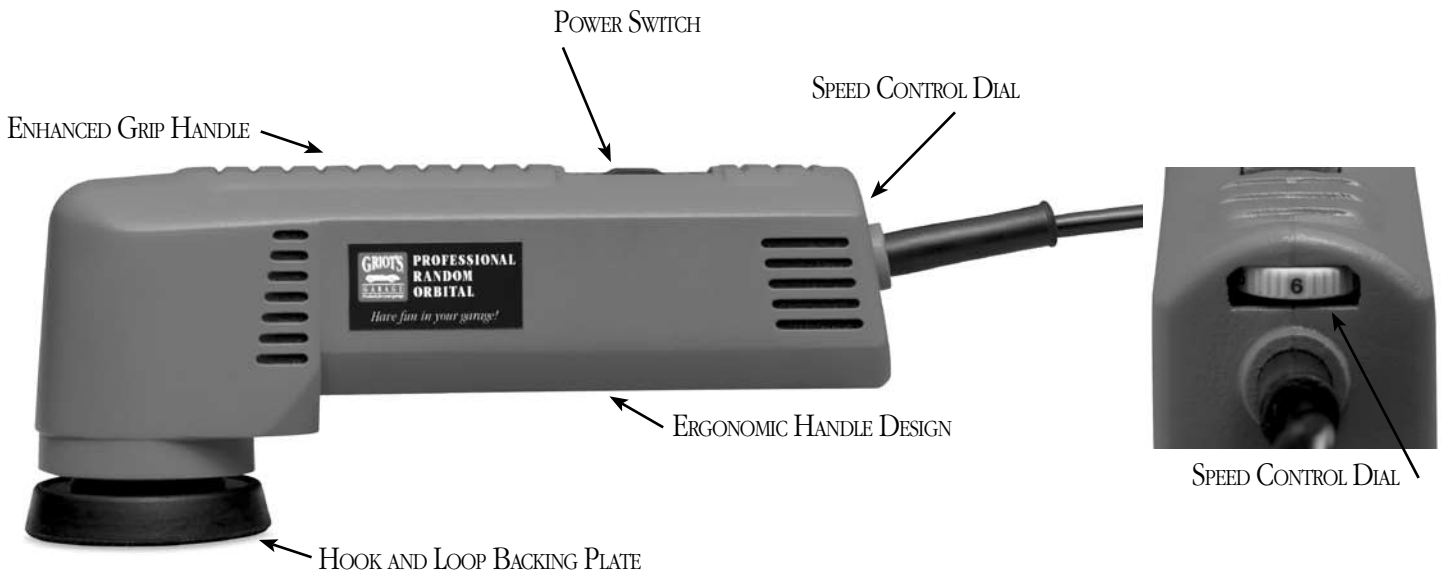
3" diameter pads are perfect for use with the Griot's Garage Professional 3" Random Orbital. They allow you to lean into the machine more to remove deep scratches. Safe for clear coats and all other types of paint. For use with our polishes and One-Step Sealant. 11241 Set of 3 Mini Orange Polish Pads

#### **GRIOT'S GARAGE MINI RED WAX PADS**

3" diameter pads that are softer and gentler for waxing with our Best Of Show Wax®. 11263 Set of 3 Mini Red Wax Pads

#### **GRIOT'S GARAGE MINI METAL & CHROME POLISH PADS**

3" diameter pads designed specifically for use with our Chrome Polish and our Mag Wheel & Aluminum Polish. 10635 Set of 3 Mini White Polish Pads





### ANSWERS TO YOUR QUESTIONS

Should you want to order another GRIOT'S GARAGE Professional 3" Random Orbital, or for a complete selection of quality GRIOT'S GARAGE products, please write or call us toll-free at 800-345-5789. You may order on our website at [www.griotsgarage.com](http://www.griotsgarage.com). Reorder item number 10685.

*Have fun in your garage!\**

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