



**GreatNeck®**

# **6" ORBITAL POLISHER 80150**

## **OWNER'S MANUAL**



**SAVE THIS MANUAL FOR FUTURE REFERENCE  
INCLUDES:**

- 1 Random orbit polisher
- 1 Terrycloth application bonnet
- 1 Wool polishing bonnet



## CAUTION:

Read rules for safe operation and instructions carefully

## GENERAL SAFETY RULES



### WARNING

Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

## SAVE THESE INSTRUCTIONS.

### 1. Work Area

- 1.1 **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- 1.2 **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.
- 1.3 **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

### 2. Electrical Safety

- 2.1 **Double insulated tools are equipped with a polarized plug (one blade is wider than the other.) This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.** Double insulation  eliminates the need for the three-wire grounded power cord and grounded power supply system.
- 2.2 **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
- 2.3 **Don't expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- 2.4 **Do not abuse the cord. Never use the cord to carry tools or unplug by pulling from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.
- 2.5 **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock.

### 3. Personal Safety

- 3.1 **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- 3.2 **Dress properly. Do not wear loose clothing or jewelry, contain long hair. Keep your hair, clothing and gloves away from moving parts.** Loose clothing, jewelry, or long hair can be caught in moving parts.
- 3.3 **Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
- 3.4 **Remove adjusting keys or wrenches before turning the tool on.** A wrench or key that is left attached to a rotating part of the tool may result in personal injury.
- 3.5 **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situation.
- 3.6 **Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

### 4. Tool Use and Care

- 4.1 **Use clamps or other practical way to secure and support the work piece to a stable platform.** Holding the work by hand against your body is unstable and may lead to loss of control.
- 4.2 **Do not force tool. Use the correct for your application.** The correct tool will do the job better and safe at the rate for which it is designed.
- 4.3 **Do not use tool if the switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- 4.4 **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventative safety measures reduce the risk of accidentally starting the tool.
- 4.5 **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- 4.6 **Maintain tools with care, keep cutting tools sharp and clean.** Properly-maintained tools, with sharp cutting edges are less likely to bind and easier to control.
- 4.7 **Check for misalignment or blinding of moving parts, and any other condition that may affect the tools operation.** If damaged, have the tool

service before using. Many accidents are caused by poorly-maintained tools.

- 4.8 Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may become hazardous when used on another tool.

## **5. Service**

- 5.1 Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in risk of injury.
- 5.2 When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

### **SPECIFIC SAFETY RULES AND/OR SYMBOLS**

- 1. Hold tool by insulated gripping surfaces when performing an operation where the tool may contact hidden wiring or its own cord.** Contact with a “live” wire will make exposed metal parts of the tool “live” and shock the operator.
- 2. Do not run car when using polisher in enclosed areas.**
- 3. Do not put fingers, objects or tools between guard and pad holder while machine is running. Always start and stop polisher against car surface. Otherwise the bonnet could be thrown from the pad.**
- 4. Keep children at a safe distance from the work area.**
- 5. Avoid accidental starting. Keep fingers away from switch when carrying plugged-in polisher. Disconnect tool when not in use or when servicing with replacement parts.**
- 6. Maintain tool with care. Keep handle dry. Clean and keep free from oil and grease. If your polisher needs repair, use only identical replacement parts.**
- 7. When not in use keep tool locked up (or high and dry), and out of the reach of children.**
- 8. Do not force tool. Grip the polisher firmly but without downward pressure. Pressing too hard will slow down the machine’s movement and affect the quality of the work.**
- 9. Do not operate tool if guard is damaged.**

## **SYMBOLS**

Some of the following symbols may be used on this tool. Please study

them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

SYMBOL	NAME	DESIGNATION/EXPLANATION
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
min	Minutes	Time
~	Alternating current	Type of current
==	Direct current	Type or a characteristic of current
n <sub>0</sub>	No load speed	Rotational speed, at no load
□	Class II construction	Double-insulated construction
./min	Revolutions or reciprocation per minute	Revolutions, strokes, surface speed, orbits, etc, per minute

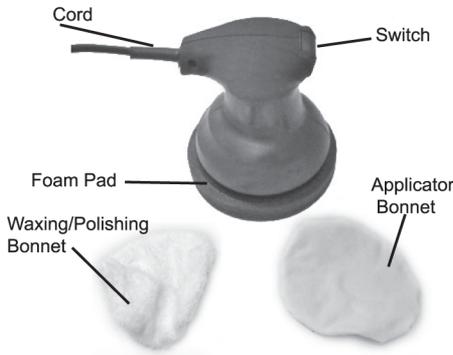
## SPECIFICATIONS

Pad Size.....6" (15 cm)

No Load Speed.....3600(RPM)

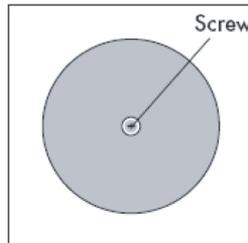
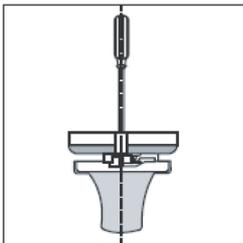
Rated Current.....0.4 A

Voltage.....120 V, 60 Hz



## TO REMOVE PAD

Use a flat bladed screwdriver to remove and install pad. Turn counter clockwise to remove, clockwise to install.



# OPERATION

Always wear safety goggles or glasses with side shields when operating power tools. Failure to do so could result in object thrown into your eyes, resulting in possible serious injury.

## 1. POLISHING/WAXING INSTRUCTIONS (IMPORTANT NOTICE, READ BEFORE USING!)

This tool is for the purpose of waxing/polishing cars, boats, RVs, personal aircraft, hardwood floors and large furniture.

- 1.1 The applicator bonnet provided with this product is to apply wax and related chemicals only. Do not use it to remove wax or buff and polish a waxed surface even if the bonnet has thoroughly washed. Otherwise paint damage may occur. Use the clean synthetic wool polishing bonnet for waxing and polishing only.
- 1.2 Before you begin, make sure your car is clean and dry. Your work area should also be dry.
- 1.3 Your GreatNeck polisher comes with 2 bonnets, one for applying the polish to the surface and the other for waxing the surface.

## 2. FOR WAXING:

- 2.1 Place a clean application bonnet securely on the pad as shown (Fig. 1)
- 2.2 Paste Wax: Spread about a heaping teaspoon of wax evenly over the entire surface of the application bonnet. (Fig. 2) DO NOT apply the polish directly to the surface to be polished. (Most polishes are either in paste or liquid form. Before using polish, read all directions on the appropriate applications and use accordingly.)
- 2.3 Liquid Cleaner/Glaze/Wax: Apply a small circle of Cleaner/Glaze/Wax (about the size of a half-dollar) on the center of the application bonnet, followed by two more rings, each slightly larger than the previous one. (Fig. 3) DO NOT apply directly to the surface to be polished.
- 2.4 After the first application, the bonnet will not absorb as much polish. Use half the polish quantity as stated above.
- 2.5 Always start and stop the polisher on or against the surface to be polished (Fig. 4). Hold the power cord over your shoulder and do flat surfaces first, roof, hood and trunk. Cover areas quickly with broad, sweeping strokes in a criss-cross pattern. DO NOT press down, the polisher's action does the work, NOT pressure!
- 2.6 In hard-to-reach surfaces like under the bumper, around the door handle, etc, apply wax by hand.

- 2.7 The most common error is applying too much Wax or Cleaner/Glaze. If the bonnet absorbs too much chemical, it will not last as long. Polishing will become more difficult and take longer.
- 2.8 If the bonnet continually comes off the pad, you may be using too much Wax or Clean/Glaze.

**3. FOR POLISHING:**

- 3.1 Place a clean polishing bonnet on the pad as shown (Fig. 1).
- 3.2 Remove chemicals (Wax or Cleaner/Glaze) in the same order they were applied.
- 3.3 Use long, sweeping strokes in a criss-cross pattern.
- 3.4 DO NOT press down. Let the polisher do the work.
- 3.5 If wax seems difficult to buff, you may have applied too much wax.
- 3.6 Remove the Polishing bonnet and hand buff all hard-to-reach areas.
- 3.7 NEVER use polishing bonnets for applying Wax or Cleaner/Glaze.



Fig. 1



Fig. 2



Fig. 3



Fig. 4

**MAINTENANCE**

- 1. Bonnets can be machine-washed in cold water with a small amount of detergent on a short wash cycle. Then machine dry at medium heat. However, hand washing and drying is recommended for longer bonnet life.
- 2. To prolong pad life and shape, always store polisher with pad face up.

3. Remove bonnet from the pad when polisher is not in use so pad can dry out and retain its original shape.
4. Badly oxidized paint may require several applications. Do not use abrasive compounds.
5. The most common error is applying too much wax and cleaner/glaze. If pad becomes saturated, polishing will be more difficult and take longer. It may also reduce pad life.
6. If bonnet continually comes off pad, you may have used too much wax, cleaner or glaze.
7. If wax seems difficult to buff, you may have used too much wax.
8. Use only mild soap and a damp sponge to clean polisher. Do not immerse any part in liquid. If polisher needs repair, use only identical replacement parts.

## KNOW YOUR POLISHER

### See Figure 1.

The safe use of this product requires an understanding of the information on the tool and in this operator's manual as well as knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.

### APPLICATOR BONNET

The reusable application bonnet is used for applying waxes, buffing or polishing.

### POLISHING BONNET

The reusable polishing bonnet is for wax removal and final polishing of autos, boats and furniture.

### FOAM PAD

The polisher comes with a rotating base that moves in a random orbital motion. 6" (15 cm) in diameter.

### CORD

The polisher has a 60 cm power cord.

### SWITCH

It is used to turn on/off the polisher.

**Made in China**



## PARTS LIST

**WARNING:** When servicing, use only GreatNeck® replacement parts. Use of any other parts may create a HAZARD or cause damage to your power tool.

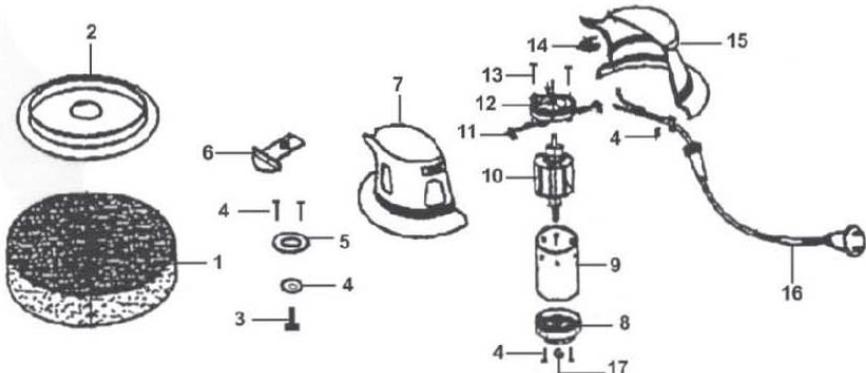
Any attempt to repair or replace electrical parts on this power tool may create a hazard unless repair is performed by a qualified technician.

Always order by PART NUMBER, not by key number.

Key #	Part #	Part Name	Quantity
1	80150-1	Pad	1
2	80150-2	Pad Holder	1
3	80150-3	Bolt (Left Hand Threaded)	1
4	80150-4	Hardware Package (Screws/Washers)	4
5	80150-5	Bearing Set	1
6	80150-6	Counterweight	1
7	80150-7	Right Housing	1
8	80150-8	Motor Plate Assembly	1
9	80150-9	Magnet, Yoke Assembly	1
10	80150-10	Armature	1
11	80150-11	Bridge Rectifier	1
12	80150-12	End Bell Assembly with Brush Set	2
13	80150-13	Motor Thru Bolt	2
14	80150-14	Power Switch	1
15	80150-15	Left Housing	1
16	80150-16	Power Cord	1
17	80150-17	Circlip	1
18	80150-18	Application Bonnet (not shown)	1
19	80150-19	Polishing Bonnet (not shown)	1

## ASSEMBLY DIAGRAM

18. APPLICATION BONNET NOT SHOWN  
19. POLISHING BONNET NOT SHOWN



NOTE: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

## **GREATNECK<sup>®</sup> ONE YEAR LIMITED WARRANTY**

**If within one year from date of purchase, this product fails due to a defect in materials or workmanship, return the product with proof of purchase, postage prepaid to Great Neck Saw Mfrs.Inc., Mineola, NY 11501, for replacement with an item of equal or greater value. This warranty excludes incidental/consequential damages and failures due to misuse, abuse or abnormal wear and tear.**

**This warranty gives you specific rights, and you may also have other rights, which vary from state to state.**

**This product is not guaranteed if used for industrial or commercial purposes.**

**Customer Service 1-866-458-2472**