

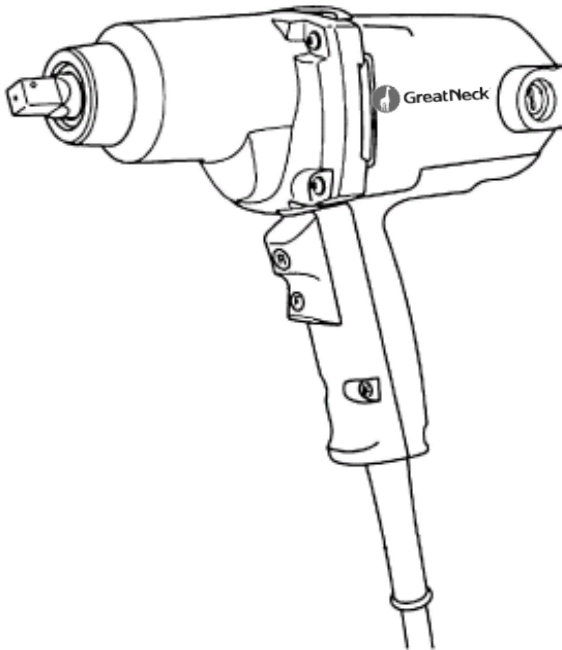


GreatNeck[®]

Item # 25599

7.5 A IMPACT WRENCH KIT

Owner's Manual



CAUTION:

Before using this impact wrench or any of its accessories, read this manual and follow all Safety Rules and Operating Instructions.

- **General Safety Rules**
- **Specific Safety Rules and Symbols**
- **Functional Description**
- **Assembly**
- **Operation**
- **Maintenance**
- **Accessories**

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WARRANTY

One Year Limited Warranty

For one year from the date of purchase of this GreatNeck® product you find any defect in material or workmanship, through normal usage, either return it to the place of purchase, or send it to GreatNeck® Tools for repair or replacement at our discretion. In order to obtain this service send your tool and proof of purchase, transportation pre-paid, to **GreatNeck® Tools, Q.A. Dept, 3580 E. Raines Rd. #3, Memphis, TN 38118**. This warranty gives you specific legal 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.

TOLL FREE HELPLINE: 1-866-458-2472

Distributed by GreatNeck Tools LLC, Mineola, NY 11501

Rev 1 03/08

PRODUCT SPECIFICATIONS

Rating	120 V, 60 Hz, AC
Amperes	7.5 Amperes
Maximum torque:	240 ft lbs (312 Nm)
Blows per minute (BPM)	2700
Square drive	½"
Net weight	7 lb 3 oz. (3.3 kg)

POWER TOOL SAFETY

⚠ WARNING: Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks, cement and other masonry products
- Arsenic and chromium from chemically-treated lumber

Your level of risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area and work with approved safety equipment such as dust masks that are specially designed to filter out microscopic particles.

⚠ WARNING: To avoid electrical hazards, fire hazards or damage to the impact wrench, use proper circuit protection.

This impact wrench is wired at the factory for 110–120 V operation. It must be connected to a 110–120 V 15 Amp time delayed fuse or circuit breaker. To avoid shock or fire, replace power cord immediately if it is worn, cut or damaged in any way.

ALWAYS WEAR EYE PROTECTION




Any power tool can throw foreign objects into your eyes which could cause permanent eye damage. ALWAYS wear safety goggles (not glasses) that comply with ANSI safety standard Z87.1. Everyday glasses have only impact resistant lenses. They ARE NOT safety glasses.

⚠ WARNING: Glasses or goggles not in compliance with ANSI Z87.1 could cause serious injury when they break.

POWER TOOL SAFETY

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.

WORK AREA

Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.

Do not operate power tools in potentially explosive environments, such as in the presence of flammable liquids, gas or dust. Power tools create sparks which may ignite the dust or fumes.

Keep bystanders, children and visitors away while operating the tool. Distractions can cause you to lose control.

ELECTRICAL SAFETY

Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized plug 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 alter the plug in any way. Double insulation eliminates the need for the three-prong grounded power cord and grounded power supply system.

Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. **There is increased risk of electric shock if your body is grounded.**

Do not expose power tools to rain or wet conditions. Water entering the power tool will increase the risk of electric shock.

Do not abuse the cord. Never use the cord to carry the tool or pull the plug 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.

When operating a power tool outdoors, use an outdoor extension cord marked “W-A” or “W”. These cords are rated for outdoor use and reduce the risk of electric shock.

PERSONAL SAFETY

Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use the 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.

Dress properly. Do not wear loose clothing or jewellery.

Contain long hair. Keep your hair, clothing and gloves away from moving parts. Loose clothing, jewellery or long hair can be caught in moving parts.

Avoid accidental starting. Be sure the 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.

SAVE THESE INSTRUCTIONS FOR REFERENCE

POWER TOOL SAFETY

PERSONAL SAFETY – cont'd

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.

Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.

Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat or hearing protection must be used for appropriate conditions.

TOOL USE AND CARE

Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.

Do not force the tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it was designed.

Do not use the tool if the power switch does not turn it ON or OFF. Any tool that cannot be controlled with the switch is dangerous and must be repaired.

Disconnect the plug from the power source before making any adjustments, changing accessories or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.

Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.

Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

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.

SERVICE

Tool service must be performed only by qualified personnel. Service or maintenance performed by unqualified personnel could result in risk of injury.

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.

SAVE THESE INSTRUCTIONS FOR REFERENCE

SPECIFIC SAFETY RULES

⚠ WARNING: Know your impact wrench. Read the Owner's Manual carefully. Learn the tool's applications and limitations, as well as the specific potential hazards related to this tool. Following this rule will reduce the risk of electric shock, fire or serious injury.

Always wear eye protection. Any power tool can throw foreign objects into your eyes which could cause permanent eye damage. ALWAYS wear safety goggles (not glasses) that comply with ANSI safety standard Z87.1. Everyday glasses have only impact resistant lenses. They ARE NOT safety glasses.



⚠ WARNING: Glasses or goggles not in compliance with ANSI Z87.1 could cause serious injury when they break.

Always use hearing protection when operating the impact wrench.

Use only impact sockets and accessories that are designed for use with an impact wrench. Do not use chrome plated sockets and accessories. Chrome plated sockets and accessories are designed for hand use only and MUST NOT be used with an impact wrench. They may shatter and possibly cause serious injury.

Before each use, check the impact sockets and accessories for excessive wear or cracks. Worn or damaged sockets or accessories may shatter and possibly cause serious injury. Worn accessories may allow the socket to come off during operation of the impact wrench.

Never use the impact wrench as a torque wrench. Always use a torque wrench to adjust the fastener to the specified torque.

Keep the impact wrench handle and body clean and free of oil and grease. Always use a clean dry cloth when cleaning. Do not use solvents, brake fluid, gasoline or other petroleum products to clean the tool. They will damage the tool.

Do not wear neckties or loose clothing.

When wearing gloves, they must be tight fitting and slip resistant type. Leather gloves offer the best protection.

Always use two hands when operating the impact wrench. Use one hand on the handle and the other on the front of the tool body.

Never place your hand so it is touching the socket or accessory when the tool is turned ON. Your hand could be seriously injured.

Always remove the plug from the power source before installing or removing any socket or accessory.

Be ready for components to shift when removing any fastener. The speed of the fastener removal could cause unexpected shifting of the components.

SAVE THESE INSTRUCTIONS FOR REFERENCE

EXTENSION CORD SAFETY



WARNING: Keep the extension cord clear of the working area. Position the cord so it will not get caught on the workpiece, tools or any other obstructions while you are working with the power tool.

Make sure any extension cord used with this tool is in good condition. When using an extension cord, be sure to use one of heavy enough gauge to carry the current the tool will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.

The table on the right shows the correct size to use according to cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number the heavier the cord.

Be sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it. Protect your extension cord from sharp objects, excessive heat and damp or wet areas.

Use a separate electrical circuit for your power tools. This circuit must not be less than 14 gauge wire and should be protected with either a 15 Amp time delayed fuse or circuit breaker. Before connecting the power tool to the power source, make sure the switch is in the OFF position and the power source is the same as indicated on the nameplate. Running at lower voltage will damage the motor.

MINIMUM GAUGE (AWG) EXTENSION CORDS (120 V use only)					
Ampere Rating		Total length in feet			
More Than	Not More Than	25'	50'	100'	150'
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Applicable	










SYMBOLS

⚠ WARNING: Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

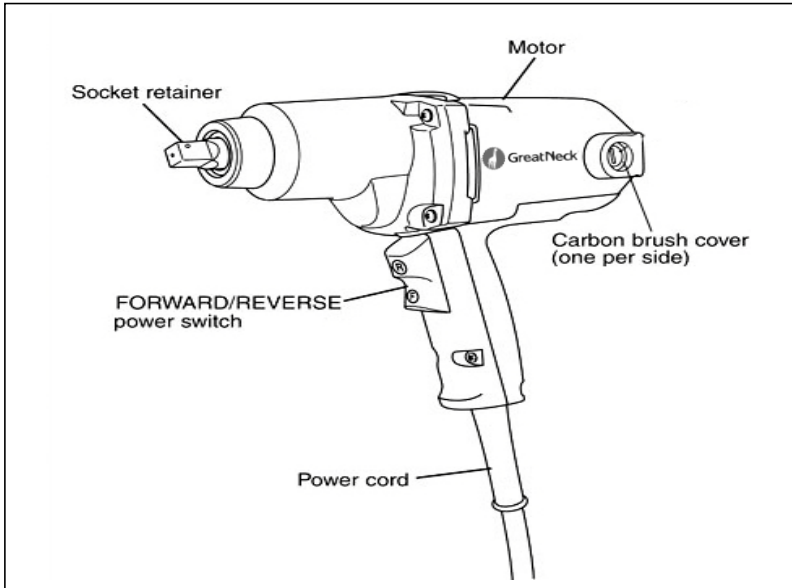


This symbol designates that this tool is listed with both Canadian and U.S. requirements by Underwriters Laboratories.

V	volts
A	amperes
Hz	hertz
W	watt
KW	kilowatts
μF	microfarads
L	litres
Kg	kilograms
H	hours
N/cm²	newtons per square centimeter
Pa	pascals
Min	minutes
S	seconds
	alternating current
	three-phase alternating current

	three-phase alternating current with neutral
	direct current
n_o	no load speed
	alternating or direct current
	class II construction
	splash proof construction
	watertight construction
	protective earthing at earthing terminal, Class I tools
.../min	revolutions or reciprocations per minute
Ø	diameter
0	off position
	arrow
	warning symbol

KNOW YOUR IMPACT WRENCH



ACCESSORIES & CARTON CONTENTS

AVAILABLE ACCESSORIES

⚠ WARNING: Use only accessories recommended for this impact wrench. Follow instructions that accompany accessories. Use of improper accessories may cause injury to the operator or damage to the tool.

Do not use any accessory unless you have completely read the instructions or Owner's Manual for that accessory.

- Impact sockets
- Impact extensions

CARTON CONTENTS

⚠ WARNING: If any part is missing or damaged, do not plug the tool into the power source until the missing or damaged part is replaced.

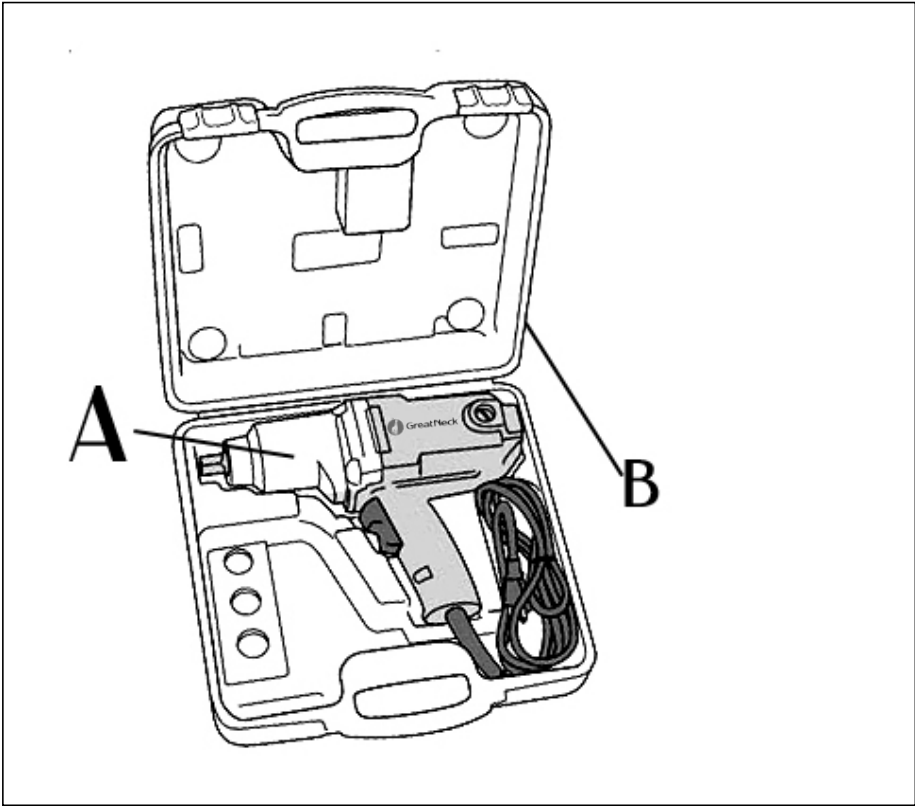
Carefully unpack the impact wrench. Compare against the "IMPACT WRENCH COMPONENTS" chart below.

NOTE: See product diagram on Page 10.

⚠ WARNING: To avoid fire or toxic reaction, never use gasoline, naphtha, acetone, lacquer thinner or similar highly volatile solvents to clean the tool.

IMPACT WRENCH COMPONENTS		
KEY	DESCRIPTION	QTY
A	Impact wrench	1
B	Carrying case	1
	Owner's manual	1

CARTON CONTENTS



ASSEMBLY AND OPERATION

INSTALL SOCKET

⚠ WARNING: Use only impact sockets and accessories that are designed for use with an impact wrench. Do not use chrome plated sockets and accessories. Chrome plated sockets and accessories are designed for hand use only and **MUST NOT** be used with an impact wrench. They may shatter and possibly cause serious injury.

To install a socket, press the square portion of the socket (1) onto the square drive (2) of the impact wrench (see Fig. 1). **NOTE:** Slide the socket fully onto the square drive so the socket retainer (3) will hold the socket firmly in place.

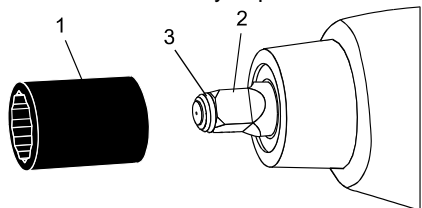


Fig. 1

ASSEMBLY AND OPERATION

FORWARD/REVERSE SWITCH

This impact wrench is equipped with a rocker style forward/reverse switch (1) (see Fig. 2).

1. To operate the impact wrench in the forward direction, press and hold the bottom part of the switch (2). This direction of rotation will **tighten** the fastener.
2. To operate the impact wrench in the reverse direction, press and hold the top part of the switch (3). This direction of rotation will **loosen** the fastener.

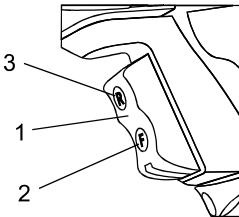


Fig. 2

⚠ WARNING

Have you read “POWER TOOL SAFETY”, “SPECIFIC SAFETY RULES”, EXTENSION CORD SAFETY” and “SYMBOLS” on pages 3, 4, 5, 6, 7 & 8 of this Manual? If not, please do it now before you operate this impact wrench. Your safety depends on it!

Every time you use the impact wrench you should verify the following:

1. **Safety glasses, hearing protection and gloves are being worn.**
2. **Socket is the correct size and is “impact wrench” rated.**
3. **Socket is in good condition.**

Failure to adhere to these safety rules can greatly increase the chances of injury.

REMOVING FASTENERS

One of the most common uses for the impact wrench is to remove car wheel nuts for rotating the tires. Car wheel nut removal is used for illustrative purposes.

⚠ DANGER: Before attempting to remove a car wheel, make sure all jacking, wheel blocking and wheel removal safety procedures illustrated in the Owner’s Manual for your car are followed exactly. Failure to follow those safety instructions could result in serious injury or death.

ASSEMBLY AND OPERATION

REMOVING FASTENERS – cont'd

1. Install the correct size of impact socket on the impact wrench as outlined on Page 10.
2. Plug the impact wrench power cord into an appropriate power source.
3. Grasp the impact wrench handle (1) with one hand and the front housing of the impact wrench (2) with the other hand.
4. Place impact socket (3) onto the wheel nut.
NOTE: Make sure the socket is fully engaged with the nut to avoid potentially damaging the socket or the wheel nut.
5. While holding the tool level with the ground and with a firm grasp, pull on the top part of the forward/reverse switch.

When removing fasteners, do not allow the impact wrench to operate more than 15 seconds unless the fastener begins to turn. If the fastener fails to turn within 15 seconds, reverse the direction of rotation and operate the impact wrench in a forward direction on the fastener for a few seconds. Now switch back to reverse direction and remove the fastener. This procedure will usually break loose seized or “frozen” fasteners.



WARNING: Operating the impact wrench for more than 15 seconds at a time on a seized or “frozen” fastener will place severe stress on the impact wrench and cause damage. It may also break the fastener.

MAINTENANCE

GENERAL

⚠ WARNING: When servicing, use only identical replacement parts. Use of any other part may create a hazard or cause product damage.

DO NOT use solvents when cleaning plastic parts. Plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use a clean cloth to remove dirt, dust, oil, grease etc.

⚠ WARNING: Do not at any time allow brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come into contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.

DO NOT abuse power tools. Abusive practices can damage the tool as well as the workpiece.

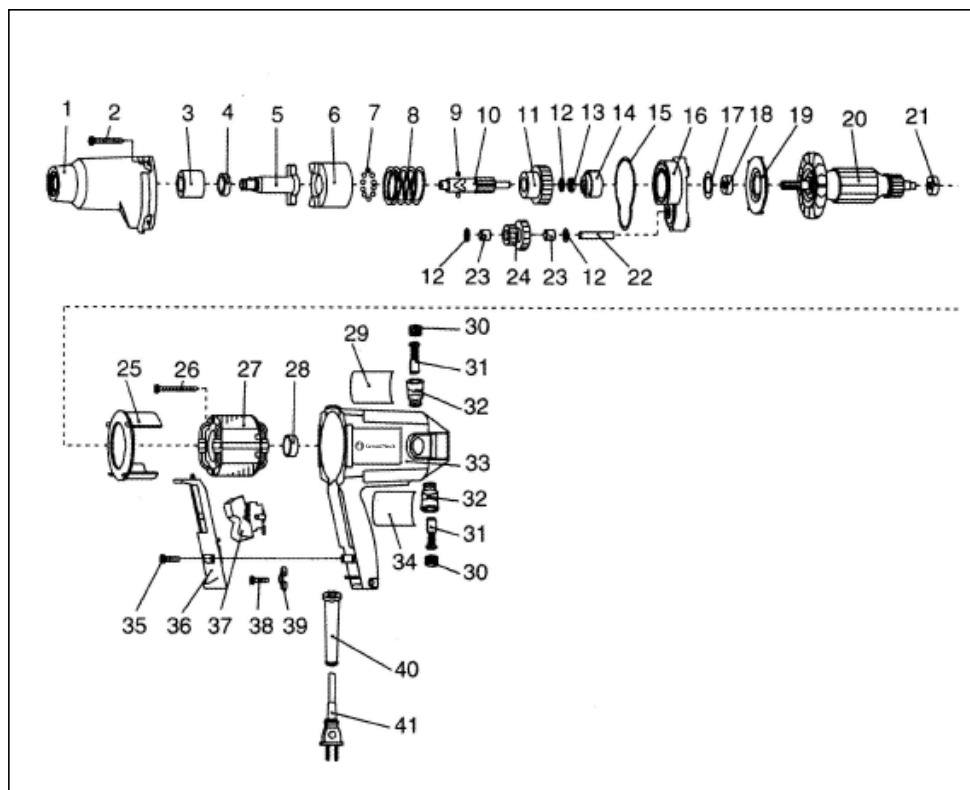
⚠ WARNING: DO NOT attempt to modify tools or create accessories. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury. It will also void the warranty.

LUBRICATION

All of the bearings in this tool are lubricated with a sufficient amount of high-grade lubricant for the life of the unit under normal conditions. Therefore, no further lubrication is required.

PARTS DIAGRAM – MODEL 25599

Use only GreatNeck® Impact Wrench replacement parts. Use of any other part may cause product damage. Any and all servicing of the impact wrench should be performed by a qualified service centre.



PARTS LIST – MODEL 25599

⚠ WARNING: When servicing, use only GreatNeck® replacement parts. Use of any other parts may create a safety hazard or cause damage to the tool.

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

Always order by PART NUMBER, not by key number.

Key #	Part #	Part Name	Quantity
1	25599-1	Gear case	1
2	25599-2	Screw	4
3	25599-3	Bearing & seal	1
4	25599-4	Thrust washer	1
5	25599-5	Anvil assembly	1
6	25599-6	Impactor	1
7	25599-7	Seal ball / ø5	23
8	25599-8	Spring	1
9	25599-9	Steel ball / ø7.14	2
10	25599-10	Drive spindle	1
11	25599-11	Gear	1
12	25599-12	Washer	3
13	25599-13	Impact washer	1
14	25599-14	Bearing	1
15	25599-15	Gasket	1
16	25599-16	Gear case cover	1
17	25599-17	O-ring (ø27.6x2)	1
18	25599-18	Ball bearing / 6001.2Z	1
19	25599-19	Bearing retainer	1
20	25599-20	Armature	1
21	25599-21	Ball bearing / 608.2Z	1
22	25599-22	Spindle	1
23	25599-23	Needle bearing	2
24	25599-24	Gear & pinion	1
25	25599-25	Fan baffle	1
26	25599-26	Screw / ST3.9x55F	1
27	25599-27	Stator	1
28	25599-28	Rubber ring	1
29	25599-29	Trade mark	1
30	25599-30	Brush cap	2

PARTS LIST – MODEL 25599

Key #	Part #	Part Name	Quantity
31	25599-31	Brush assembly	2
32	25599-32	Brush holder	2
33	25599-33	Housing	1
34	25599-34	Name plate	1
35	25599-35	Screw / ST3.9x18F	2
36	25599-36	Handle cover	1
37	25599-37	Switch	1
38	25599-38	Screw / ST3.9x16C	2
39	25599-39	Cord clamp	1
40	25599-40	Cord sheath	1
41	25599-41	Cord	1

Customer Service 1-866-458-2472
www.greatnecktools.com

ALWAYS WEAR SAFETY GOGGLES

GREATNECK TOOLS LLC
MINEOLA, NY 11501
MADE IN CHINA?