

# 19.2V CORDLESS IMPACT WRENCH (VARIABLE SPEED)

Model 97925 99676

# SET UP AND OPERATING INSTRUCTIONS



Distributed exclusively by Harbor Freight Tools®

3491 Mission Oaks Blvd., Camarillo, CA 93011

Visit our website at: http://www.harborfreight.com



Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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For technical questions or replacement parts, please call 1-800-444-3353. REV 11h

#### SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

# IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

ADANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**A**WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**A**CAUTION

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

**CAUTION** 

CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

#### **GENERAL SAFETY RULES**



WARNING Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your battery-operated (cordless) power tool.

#### **SAVE THESE INSTRUCTIONS**

#### 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 a power tool. Distractions can cause you to lose control.

#### 2. Electrical safety

- a. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b. 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.
- 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. Damaged or entangled cords increase the risk of electric shock.
- e. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f. If operating a power tool in a damp location is unavoidable, use a Ground Fault Circuit Interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

#### 3. **Personal safety**

a. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

- b. **Use safety equipment. Always wear ANSI-approved eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, 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 power tool may result in personal injury.
- e. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- g. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust-related hazards.

#### 4. Power tool use and care

- a. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b. 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.
- c. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e. Maintain power tools. 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.
- f. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

#### 5. Battery tool use and care

- a. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- c. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- d. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

#### 6. Service

a. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

# **Vibration Safety**

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

- 1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
- 2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
- 3. Wear suitable gloves to reduce the vibration effects on the user.
- 4. Use tools with the lowest vibration when there is a choice between different processes.
- 5. Include vibration-free periods each day of work.
- 6. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.

7. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

# **Drill and Impact Drill Safety Warnings**

- 1. Wear ear protectors with impact drills. Exposure to noise can cause hearing loss.
- 2. **Use auxiliary handles supplied with the tool.** Loss of control can cause personal injury.
- 3. Hold power tools by insulated gripping surfaces when performing an operation where the cutting 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.
- 4. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
- 5. Avoid unintentional starting. Prepare to begin work before turning on the tool.
- 6. Do not lay the tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
- 7. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
- 8. Do not leave the tool unattended when it is plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.



The battery charger gets hot during use. The charger's heat can build up to unsafe levels and create a fire hazard if it does not receive adequate ventilation, due to an electrical fault, or if it is used in a hot environment.

Do not place the charger on a flammable surface. Do not obstruct any vents on the charger. Especially avoid placing the charger on carpets and rugs; they are not only flammable, but they also obstruct vents under the charger. Place the charger on a stable, solid, nonflammable surface (such as a stable metal workbench or concrete floor) at least 1 foot away from all flammable objects, such as drapes or walls. Keep a fire extinguisher and a smoke detector in the area. Frequently monitor the charger and battery during use.

- 10. This product is not a toy. Keep it out of reach of children.
- 11. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:
  - Avoid operating alone.
  - Do not use with power switch locked on.

- Properly maintain and inspect to avoid electrical shock.
- Any power cord must be properly grounded. Ground Fault Circuit Interrupter (GFCI) should also be implemented it prevents sustained electrical shock.
- 12. Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
  - Lead from lead-based paints
  - Crystalline silica from bricks and cement or other masonry products
  - Arsenic and chromium from chemically treated lumber

Your 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 those dust masks that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, et seq.)

- 13. WARNING: Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, et seq.)
- 14. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.



# SAVE THESE INSTRUCTIONS.

## **GROUNDING**



Improperly connecting the grounding wire can result in electric shock.

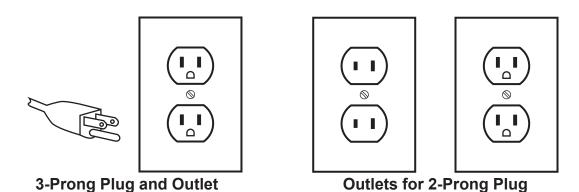


TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION:

Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

# **Grounded Tools: Tools with Three Prong Plugs**

- 1. Tools marked with "Grounding Required" have a three wire cord and three prong grounding plug. The plug must be connected to a properly grounded outlet. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock. (See 3-Prong Plug and Outlet.)
- 2. The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the tool's grounding system and must never be attached to an electrically "live" terminal. (See 3-Prong Plug and Outlet.)
- 3. The tool must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the preceding illustration. (See 3-Prong Plug and Outlet.)



# **Double Insulated Tools: Tools with Two Prong Plugs**

- 1. Tools marked "Double Insulated" do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code. (See Outlets for 2-Prong Plug.)
- 2. Double insulated tools may be used in either of the 120 volt outlets shown in the preceding illustration. (See Outlets for 2-Prong Plug.)

## **Extension Cords**

- 1. **Grounded** tools require a three wire extension cord. **Double Insulated** tools can use either a two or three wire extension cord.
- 2. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage.

  (See Table A.) The smaller the gauge number of the wire, the greater the capac-

- ity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. (See Table A.)
- 3. When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required. (See Table A.)
- If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. (See Table A.)
- 5. If you are using an extension cord outdoors, make sure it is marked with the suffix "W-A" ("W" in Canada) to indicate it is acceptable for outdoor use.
- 6. Make sure the extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
- 7. Protect the extension cords from sharp objects, excessive heat, and damp or wet areas.

RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS* (120/240 VOLT)					
NAMEPLATE AMPERES	EXTENSION CORD LENGTH				
(at full load)	25 Feet	50 Feet	75 Feet	100 Feet	150 Feet
0 – 2.0	18	18	18	18	16
2.1 – 3.4	18	18	18	16	14
3.5 - 5.0	18	18	16	14	12
5.1 – 7.0	18	16	14	12	12
7.1 – 12.0	18	14	12	10	-
12.1 – 16.0	14	12	10	-	-
16.1 – 20.0	12	10	-	-	-
TABLE A	* Based on limit	ing the line volta	ge drop to five vo	olts at 150% of the	e rated amperes.

# **Symbology**

	Double Insulated	V~	Volts Alternating Current
<b>P</b> ®	Canadian Standards Association	A	Amperes
(UL)	Underwriters Laboratories, Inc.	Ina yyyy/min	No Load Revolutions per Minute (RPM)

#### **SPECIFICATIONS**

Drive Size	97925:1/2" 99676: 3/8"
Charger Input	120 V~, 60 Hz, 80W
Charge Time	97925: 1 Hour
Speed	97925: 0-2,000 RPM 99676: 0-2,500
Maximum Torque	97925: 350 ft-lb 99676: 200 ft-lb
Battery Cell Type	19.2 V, NiCd, 2.0 Ah

#### **UNPACKING**

When unpacking, check to make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

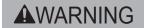
#### **List of contents**

Description	Qty
Impact Wrench	1
Charger	1
Battery	1
Blow Mold Case	1

# **SET UP INSTRUCTIONS**



Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.



TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Turn the Power Switch of the tool to its "OFF" position and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

**Note:** For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

## **Tool Features**

1. Always make sure the Trigger of the Impact Wrench is not depressed, the Forward/ Reverse Switch is in the center, locked position, the Battery is removed from the

Impact Wrench, and the Charger is unplugged from an electrical outlet prior to making any adjustments to the tool.

<u>Trigger:</u> Squeeze the Trigger to turn the Impact Wrench on and release pressure on the Trigger to turn the Impact Wrench off.

<u>Forward/Reverse Switch:</u> The Forward/Reverse Switch allows you to change the rotational direction of the Impact Wrench. For a clockwise rotation, move the Forward/Reverse Button to the left. For a counterclockwise rotation, move the Forward/Reverse Button to the right. To avoid damage to the Impact Wrench, always wait until the tool completely stops before changing rotational directions.

1/2" or 3/4" Drive Impact Head: The Impact Head features a spring and ball to securely hold a socket.

**Battery:** The power source for the Impact Wrench is a rechargeable, 19.2 VDC Battery. Make sure to follow all safety precautions when working with the Battery.

<u>Charger:</u> The Charger is powered by plugging the Power Plug into a 120 volt, grounded, electrical outlet. NEVER attempt to power the Charger with any other electrical source other than a 120 volt, grounded electrical outlet.





#### FIGURE A

# Charging

- 1. The Battery must be charged prior to the first use of the Impact Wrench.
- 2. After first use, the Battery should only be recharged when the performance of the Impact Wrench begins to diminish. Severe heat is destructive to batteries; the more heat generated, the faster the battery will lose power. A battery that gets too hot can be permanently damaged. Never discharge the battery by continuing to

REV 09b

- pull the Trigger after the tool's performance begins to diminish. Stop the tool, recharge the battery, and use the fresh battery for optimal performance
- 3. Do not recharge the Battery longer than 2 hours, as damage to the Battery and/or Impact Wrench could occur.
- 4. Depress the buttons on both sides of the Battery and pull away from the Impact Wrench. Insert the Battery into the socket of the Charger. The Battery will only fit into the charger one way. Plug the Charger into the nearest 120 volt, grounded, electrical outlet.
- Verify that the RED Charging Indicator Light comes on. If it does not illuminate, check the power connection or try a different electrical outlet. Charge the Battery for the appropriate amount of time (see Specifications chart). NOTE: When the Battery is fully charged the RED Charging Indicator Light will turn off, and the GREEN Charged Light will illuminate.
- 6. While charging, the Battery and Charger may become warm to the touch. This is normal and does not indicate a problem.
- 7. Once the Battery is fully charged, disconnect the Charger from the electrical outlet. Remove the Battery from the Charger, and insert the Battery into the handle of the Impact Wrench.

**NOTE:** Allow the battery to cool down to room temperature before using or recharging.

**NOTE**: To prevent accidents, move the Forward/Reverse switch to its "locked" center position after use. Clean, then store the tool indoors out of children's reach.

## **OPERATING INSTRUCTIONS**



Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

## **General operating instructions**

- 1. Before installing an impact socket, make sure the Battery is removed from the Impact Wrench to avoid accidental starting. Then, firmly insert the Socket onto the Impact Head of the tool. (See Figure A.)
- 2. Always fix the workpiece securely in place, using a vise or clamps (not included).
- 3. Insert the fully charged Battery into the handle of the Impact Wrench.
- 4. Use the Forward/Reverse Switch to select the desired turning rotation of the Impact Wrench.

- 5. Insert the socket onto the nut that is to be loosened/tightened.
- 6. Hold the Impact Wrench firmly with both hands, as torque from the Motor will cause the tool to twist. Squeeze the Trigger to turn on the Impact Wrench.
- 7. When finished, release the Trigger to stop the Impact Wrench. Then, remove the Battery and socket from the tool.
- 8. Make sure to store the Impact Wrench in a dry, clean location out of reach of children and other unauthorized people.

#### MAINTENANCE AND SERVICING

**▲**WARNING

Risk of serious personal injury from accidental starting or electric shock. Turn the Forward/Reverse Switch to the center, locked position and disconnect the Battery before performing any inspection, maintenance, or cleaning procedures.

Damaged equipment can fail, causing serious personal injury. Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

## **Cleaning and Maintenance**

- **BEFORE EACH USE**, inspect the general condition of the tool. Check for loose 1. screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring on the charger, and any other condition that may affect its safe operation.
- 2. **AFTER USE,** clean external surfaces of the tool with a clean cloth.
- 3. WARNING! If the battery charger cord is damaged, it must be replaced only by a qualified service technician.
- Dispose of the rechargeable NiCd battery according to State, Local and Federal 4. regulations. Contact a local recycling center for disposal directions.

#### **Replacing the Carbon Brushes**

- 1. It may become necessary at sometime to replace or clean the two Carbon Brushes when the Motor performance decreases, or stops working completely.
- 2. Remove the two Brush Holder Caps, then the two Carbon Brushes, keeping track of the orientation and location of each.
- 3. If either Carbon Brush is worn more than halfway, replace both Carbon Brushes. However, if the Carbon Brushes are just dirty, they may be cleaned by rubbing them with a pencil eraser. If cleaning used brushes, install them in the same holders and orientation as when they were removed.

- When installing the Carbon Brushes, make sure the carbon portion of the Carbon Brushes contact the Motor's Rotor and that the springs face away from the Motor. Also, make sure the springs operate freely.
- After replacement or cleaning, replace the two Brush Holder Caps. 5.

**NOTE:** New Carbon Brushes tend to arc or spark until they wear and conform to the Motor's Rotor.

# **Troubleshooting**

Problem	Possible Causes	Possible Solutions
Trigger Switch locked in place.	Forward/Reverse Switch is in center position.	Move button to the left or right for forward or reverse operation.
Impact Wrench operates slowly or without force.	Battery weak.	Recharge Battery completely.
Impact Wrench does not turn on.	Battery completely discharged.	Recharge Battery completely.
Battery will not hold charge.	Battery dead.	Replace with new Battery.

#### PLEASE READ THE FOLLOWING CAREFULLY

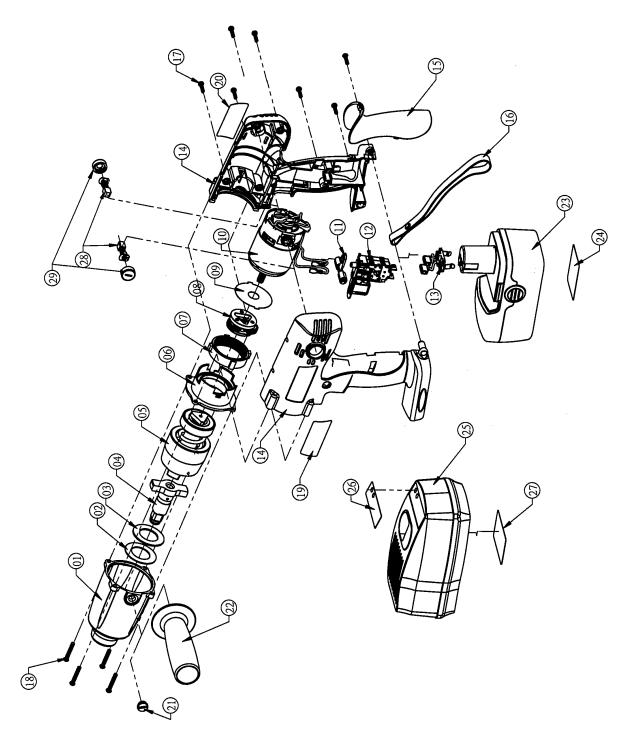
THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/ OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

# 97925 PARTS LIST

Part	Description	Qty
01	Front Cover Assembly	1
02	Rubber Washer	1
03	Washer	1
04	Front Impact Assembly	1
05	Rear Impact Assembly	1
06	Gear Ring Housing	1
07	Gear Ring	1
08	Planetary Gears	1
09	Washer	1
10	Motor Assembly	1
11	Forward/Reverse Switch	1
12	Trigger	1
13	Battery Connector Rod	1
14	Main Housing (Left & Right)	1
15	Soft Grip	1

Part	Description	Qty
16	Belt	1
17	Housing Screw	7
18	Front Cover Screw	4
19	Label (Left)	1
20	Label (Right)	1
21	M10 x 6L Screw (Extra)	1
22	Side Handle (Extra)	1
23	Battery Pack	1
24	Battery Pack Label	1
25	Charger	1
26	Charger Upper Label	1
27	Charger Lower Label	1
28	Interchangeable Carbon Brush	2
29	Brush Holder Cap	2

# 97925 ASSEMBLY DIAGRAM



# Record Product's Serial Number Here:

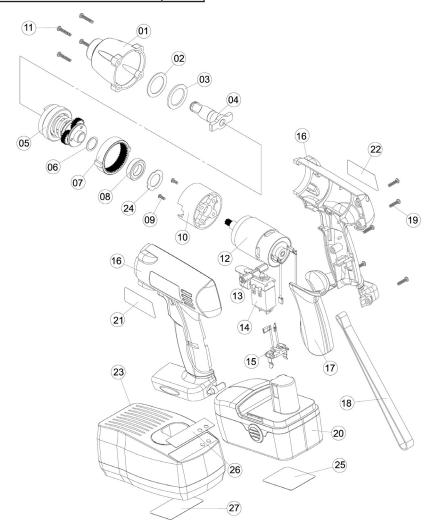
**Note:** If product has no serial number, record month and year of purchase instead.

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

# 99676 PARTS LIST & DIAGRAM

Part	Description	Qty
01	Front Cover Assembly	1
02	Rubber Washer	1
03	Washer	1
04	Front Impact Assembly	1
05	Rear Impact Assembly	1
06	Washer	1
07	Gear Ring	1
08	Bearing	1
09	Screw	2
10	Gear Ring Housing	1
11	Front Cover Screw	4
12	Motor Assembly	1
13	Forward/Reverse Switch	1
14	Trigger	1

Part	Description	Qty
15	Battery Connector Assembly	1
16	Main Housing	1
17	Grip	1
18	Belt	1
19	Housing Screw	5
20	Battery Pack	1
21	Left Label	1
22	Right Label	1
23	Charger	1
24	Washer	1
25	Battery Pack Label	1
26	Charger Upper Label	1
27	Charger Lower Label	1



#### **90 DAY WARRANTY**

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. This warranty is expressly in lieu of all other warranties, express or implied, including the warranties of merchantability and fitness.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

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

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