

# 24 VOLT CORDLESS IMPACT WRENCH

Item Number W50042

## OWNER'S MANUAL



### **▲WARNING**

*It is the owner and/or operators' responsibility to study all WARNINGS, operating, and maintenance instructions contained on the product label and instruction manual prior to operation of this product. The owner/operator shall retain product instructions for future reference.*

*The owner and/or operator are responsible for maintenance, maintaining all decals or warning labels and while in use, maintaining the unit in good working order. If the owner and/or operator are not fluent in English, the product warnings and instructions shall be read and discussed with the operators' native language by the purchaser/owner or his designee. Make sure that the operator comprehends its contents. Safety information shall be emphasized and understood prior to usage. The product shall be inspected per the operating instructions.*

*Users of this product must fully understand these instructions. Each person operating this product must also be of sound mind and body and must not be under the influence of any substance that might impair their vision, dexterity or judgment.*

*Protect yourself and others by observing all safety information.*

*Failure to comply with instructions could result in personal injury and/or property damage!*

*If you encounter any problems or difficulties, please contact our customer service department at: 1-800-426-1262 between 6:30 a.m. and 4:30 p.m. Pacific time.*

# SAFETY GUIDELINES / DEFINITIONS

This instruction manual is intended for your benefit. Please read and follow the safety, installation, maintenance and troubleshooting steps described within to ensure your safety and satisfaction. The contents of this instruction manual are based upon the latest product information available at the time of publication. The manufacturer reserves the right to make product changes at any time without notice.

**▲ WARNING:** Read and understand this entire instruction manual before attempting to assemble, install, operate or maintain this product. Failure to comply with the instructions may result in serious personal injury and/or property damage!

The following signal words are used to emphasize safety warnings that must be followed when using this product:

**▲ DANGER** Indicates an imminently hazardous situation that, if not avoided, WILL result in death or serious injury.

**▲ WARNING** Indicates a potentially hazardous situation that, if not avoided, COULD result in death or serious injury.

**▲ CAUTION** Indicates a potentially hazardous situation that, if not avoided, MAY result in minor or moderate injury.

**▲ NOTICE** Indicates important information, which if not followed, MAY cause damage to equipment.

# UNPACKING AND INSPECTION

After opening the carton, unpack your new product and related parts & accessories. Please inspect it carefully for any damage that may have occurred during transit. Please check it against the photograph on carton. If any parts are missing, please call customer service at 1-800-426-1262 between 6 a.m. and 5 p.m. Pacific time.

**▲ WARNING** DO NOT operate this product if damaged during shipment, handling or misuse. Do not operate the product until the parts have been replaced or the fault rectified. Failure to do so may result in serious personal injury or property damage. All damaged parts must be repaired or replaced as needed prior to operating this product. Check to see that all nuts, bolts and fittings are secure before putting this product into service. If you have any questions, or require assistance with damaged or missing parts, please contact our factory customer service department at: 1-800-426-1262.

Please have the serial number, model number, and date of purchase available for reference when calling.

# SPECIFICATIONS

Voltage .....	24 Volt
Drive Size .....	1/2 in.
Impacts/Min. ....	0 - 4,000 BPM
Max Torque .....	240 ft./lbs.
Charger Input .....	120 Volts AC 60HZ
Charging Time .....	3-5 hrs.
Battery Type .....	Nickel Cadmium

**Specifications are subject to change without notice.**

# IMPORTANT SAFETY INFORMATION

**▲ WARNING**  
**READ, UNDERSTAND AND FOLLOW ALL INSTRUCTIONS AND WARNINGS BEFORE OPERATING THIS PRODUCT. FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE AND WILL VOID WARRANTY.**

1. Always use common sense and pay particular attention to all the DANGER, WARNING, CAUTION and NOTICE statements of this manual. The safety instructions provided are not intended to cover all possible conditions and practices that may occur when operating, maintaining and cleaning power tools.
2. Observe work area conditions. Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lighted. Do not

use electrically powered tools in the presence of flammable gases or liquids. Do not bring combustible materials near the tools. Power tools create sparks, which may ignite the dust or fumes. Keep work area clean and well lit. Cluttered work areas invite accidents.

3. Use personal protective equipment. Wear ANSI approved safety goggles. Protective equipment such as dusk mask, non-skid safety shoes, hard hat, heavy duty work gloves or hearing protection used for

# IMPORTANT SAFETY INFORMATION

- appropriate conditions will reduce personal injuries.
- Keep bystanders, children and visitors away while operating this product. Distractions can cause you to lose control.
  - Stay alert. Watch what you are doing, and use common sense when operating this product. Do not use this product while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating this product may result in serious personal injury. Keep proper footing and balance at all times. Do not reach over or across running machines, hoses, cords, etc.
  - 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.
  - Inspect before every use; do not use if parts are loose or damaged.
  - Do not alter this product in any way.
  - Use the right tool for the job. Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. Don't use a tool whose performance is not adequate for your work. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
  - Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
  - Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
  - Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
  - 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.
  - 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.
  - 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.
  - Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
  - Before using battery pack, please read carefully all instructions and cautionary markings on battery pack, battery charger and product using battery. Do not incinerate the battery pack even if it is severely damaged or is completely worn out. The battery pack can explode.
  - Do not carry battery packs in aprons, pockets, or tool boxes, product kit boxes, drawers, etc. with loose metal objects. Battery pack terminals could be short-circuited causing damage to the battery pack, severe burns or fire.
  - The battery pack is Nickel-Cadmium (Ni-Cad) and is considered to be a toxic material by the Environmental Protection Agency. Before disposing of damaged or worn out Ni-Cad battery packs, check with your State Environmental Protection Agency to find out about special restrictions on the disposal of these battery packs.
  - The battery is not fully charged. Before first use, the battery pack requires 8-10 hours charge time to be fully charged. Subsequent recharging needs 3-5 hours for the battery to be fully charged.
  - Always switch to a fresh battery when tool performance begins to diminish. Severe heat is most destructive to a battery; the more heat generated, the faster the battery loses power. A battery that gets too hot can have a shortened life.
  - Never over-discharge a battery by using the tool even after tool performance has decreased. Do not attempt to discharge a tool's battery by continuing to pull on the tool trigger. When tool performance begins to diminish, stop the tool and recharge the battery for optimal performance.
  - Ensure the switch is in the off position before inserting battery pack. Charge battery pack at ambient temperatures between 50° F -104° F. Store tool and battery pack in locations where temperatures will not exceed 120°F. This is important to prevent serious damage to the battery cells.
  - A battery operated tool with integral batteries or a separate battery pack must be recharged only with the specified charger for the battery. A charger that may be suitable for one type of battery may create a risk of fire when used with another battery. Use battery operated tool only with specifically designated battery pack. Use of any other batteries may create risk of fire.
  - 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.
  - 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.
  - Prevent accidental starting. Ensure 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

# IMPORTANT SAFETY INFORMATION

- or energizing power tools that have the switch "ON" invites accidents.
- 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.
  - When using the Cordless Impact Wrench, always maintain a firm grip on the tool with both hands.
  - Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring. Contact with a "live" wire will also make exposed metal parts of the tool "live" and shock the operator.
  - Do not grasp the tool or place your hands too close to the spinning chuck or drill bit. Your hand may be lacerated or may cause injury. Secure the material being worked on. Never hold it in your hand or across your legs. Unstable support can cause loss of control and injury.
  - Position yourself to avoid being caught between the tool or side handle and walls or posts. Should the socket or bit become bound in the work, the reaction torque of the tool could crush your hand or leg.
  - Check to see that keys and adjusting wrenches are removed from the Cordless Impact Wrench before switching the tool "ON". Keys or wrenches can flyaway at high velocity striking you or a bystander.
  - 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. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of shock or injury.
  - Disconnect the plug from the power source and/or
- the battery pack from the power tool before making any adjustments or changing accessories. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- 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.
  - Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
  - 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.
  - Store idle equipment. When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children and other untrained persons. Switch off all unused electrical tools when stored. Disconnect battery from unit. Tools are dangerous in the hands of untrained users.

**WARNING:** 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.

**WARNING:** This product and its packaging contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

# CONTROLS AND COMPONENTS

- Battery Pack
- Release Buttons on Each Side
- Charger
- LED Charging Indicator
- 1/2 in. Drive Anvil
- Gear Enclosure
- Forward/Reversing and Trigger Lock Lever
- Variable Speed Controlled Trigger Switch
- Comfort Grip
- 120V AC adapter



# SYMBOL DEFINITIONS

**IMPORTANT:** 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.

Symbol	Name	Explanation
V	Volts	Voltage (Potential)
A	Amperes	Current
Hz	Hertz	Frequency (Cycles per Second)
W	Watt	Power
Kg	Kilograms	Weight
	Alternating Current	Type of Current
	Direct Current	Type of Current
	Alternating or Direct Current	Type of Current
	Earthing Terminal	Grounding Terminal
	Class II Construction	Denotes Double Insulation
min	Minutes	Time
s	Seconds	Time
∅	Diameter	Size of Drill Bits, Grinding Wheels, etc.
n <sub>0</sub>	No load speed	No-load Rotational Speed
.../min	Revolutions per Minute	Revolutions, Surface Speed, Strokes, etc. per Minute
1,2,3,...	Ring Selector Settings	Speed, Torque or Position Settings

# BATTERY PACK USAGE AND CHARGING OPERATIONS

## BATTERY PACK INSTALLATION

TO REMOVE BATTERY PACK:

1. Press release button on front side of the Cordless Impact Wrench to release the battery pack.
2. Pull battery pack free of Cordless Impact Wrench.

TO ATTACH BATTERY PACK:

1. Align the raised portion of the battery pack with the groove in the battery compartment of the Cordless Impact Wrench.
2. Press the battery pack into place. Make sure the latch is securely fastened. Do not use the Cordless Impact Wrench if the battery pack is not seated properly.



Figure 1

## BATTERY PACK CHARGING OPERATIONS

**▲ NOTICE** The charger will not automatically turn “OFF” when the battery pack is fully charged. The charging indicator light will remain “ON” until the charger is disconnected from the electrical outlet. Remove battery pack from charger and disconnect charger from power after 5 hours of

charging operation. Overcharging can overheat battery cells and cause permanent damage to the battery pack and charger kit.

1. Make sure the trigger on the Cordless Impact Wrench is in the “OFF” position and remove the battery pack from the Cordless Impact Wrench.

# BATTERY PACK USAGE AND CHARGING OPERATIONS

2. Plug 120V AC Adapter into household outlet and into side of battery charger. The Red indicator light will come "ON".
3. Insert battery pack into battery charger. The Green indicator light will come "ON" indicating that battery is being charged.
4. After 3 - 5 hours of charging, remove the battery pack from charger and reattach battery pack onto Cordless Impact Wrench, making certain latches fasten securely. Cordless Impact Wrench will not operate properly if the battery pack is not seated properly.



**▲ NOTICE** Continuous use of your tool causes the battery pack to become hot. Let a hot battery pack cool down for approximately 30 minutes before attempting to recharge.

## OPERATION

**▲ WARNING** Be aware that this tool is always in an operating condition because it does not have to be plugged into an electrical outlet. Always lock the Trigger Switch and remove the battery pack before changing accessories.

### INSTALLING ACCESSORIES

**▲ CAUTION** When removing the socket or bit from the tool, avoid contact with skin and use proper protective gloves when grasping the socket, bit or accessory. Accessories may be hot after prolonged use.

1. To installing a socket, press the socket on until it locks securely in place.
2. To remove a socket, pull the socket while slightly rotating.

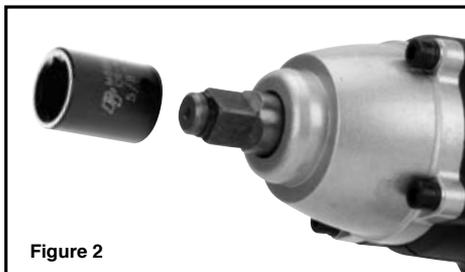


Figure 2

### OPERATING THE IMPACT WRENCH

**▲ WARNING** Never tape the trigger switch down to provide continuous high speed. The tool may fail under such conditions causing fire or personal injury.

#### VARIABLE SPEED TRIGGER SWITCH:

- The speed of the Cordless Impact Wrench depends on the amount of pressure you put on the trigger.
- The more pressure you apply, the faster the Cordless Impact Wrench will go.
- Release the pressure and the Cordless Impact Wrench will slow down.



## OPERATION

FORWARD / REVERSE AND TRIGGER LOCK LEVER:

**▲ NOTICE** Be sure the trigger is released when changing the position of the lever. Always store the tool in the “LOCKED/OFF” position. Always check the direction of the Cordless Impact Wrench’s rotation before use.

- To select forward Cordless Impact Wrench rotation, press the trigger lock from left to right flat against the Cordless Impact Wrench body.
- To select reverse, press the trigger lock lever in the opposite direction.
- The center position locks the tool.



## CARE & MAINTENANCE

**▲ WARNING** Always remove the battery pack before attempting cleaning or maintenance.

**▲ NOTICE** This Cordless Impact Wrench is lubricated before it leaves the factory. This lubrication should last for the life of the tool. No further lubrication is required.

Use only mild soap and a damp cloth to clean the tool. Never let any liquid get inside the casing. Never immerse any part of the tool in a liquid. Always keep the ventilation openings clear.

Always clean the battery pack using only a dry cloth. Do not use liquids.

Always unplug the charger before cleaning it.

Regularly clean the ventilation slots in your tool and charger using only a soft brush or dry cloth. Never open the Cordless Impact Wrench case, battery pack or charger. Do not attempt to repair the Cordless Impact Wrench, battery pack or charger yourself. Opening any of these parts will void your warranty.

## ACCESSORIES

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.

Always attach grounded (3-prong) extension cords to grounded (3-hole) outlets. If you must use an extension cord, be sure that the gauge is large enough to carry the amount of current necessary for your power tool. If not, your tool may experience a loss of power, excessive voltage drop or overheating. The smaller the gauge number, the heavier the cord (see table below).

RECOMMENDED SIZES OF EXTENSION CORDS FOR 120 VOLT AC 60 HZ TOOLS					
CURRENT RATINGS IN AMPS		CONDUCTOR SIZE IN A.W.G.			
MORE THAN	MORE THAN	25 ft.	50 ft.	100 ft.	150 ft.
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	NOT RECOMMENDED	

## 1 YEAR LIMITED WARRANTY

PERFORMANCE TOOL® extends only the following warranties, and only to original retail purchasers. These warranties give specific legal rights. Except where prohibited by local law, the law of the State of Washington governs all warranties and all exclusions and limitations of warranties and remedies. There may be other rights which vary from state to state.

PERFORMANCE TOOL® warrants the product to be free from defects in materials and workmanship under normal use and service. A defective product may be returned for a free replacement within 90 days from the date of purchase, provided that product is returned to place of purchase immediately after discovery of defect. After 90 days and up to one year from date of purchase, PERFORMANCE TOOL® will replace at no charge any parts which our examination shall disclose to be defective and under warranty. These warranties shall be valid only when a sales receipt showing the date of purchase accompanies the defective product or defective part(s) being returned. For part(s) after 90 days, please remit your request, postage prepaid to:

PERFORMANCE TOOL, P.O. Box 88259 Tukwila, WA 98138

These warranties exclude blades, bits, punches, dies, bulbs, fuses, hoses, and other consumables which must be replaced under normal use and service. These warranties shall not apply to any product or part which is used for a purpose for which it is not designed, or which has been repaired or altered in any way so as to affect adversely its performance or reliability, nor shall these warranties apply to any product or part which has been subject to misuse, neglect, accident or wear and tear incident to normal use and service.

PERFORMANCE TOOL® does not authorize any other person to make any warranty or to assume any liability in connection with its products.

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