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# STEELMAN®

## 20V CORDLESS 1/2" DRIVE BRUSHLESS IMPACT WRENCH OPERATOR'S MANUAL



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**⚠ CAUTION:** To reduce the risk of injury, user must read and understand this operator's manual. Save these instructions for future reference.

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## SAFETY AND WARNINGS


### GENERAL POWER TOOL SAFETY WARNINGS

Reference this manual for all safety warnings and precautions, operating and maintenance procedures, parts list and diagrams. Keep your invoice with this manual and write your invoice number on the inside of the front cover. Keep the manual and invoice in a safe, dry place for future reference.

This power tool is intended to be used for drilling holes and tightening or unscrewing screws. This power tool may not be used to do other things out of the described scope.

The term "power tool" in the warning refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

 **CAUTION:** To reduce the risk of injury, user must read and understand operator's manual. Save these instructions for future reference.

 **WARNING:** Be sure to read and understand all safety instructions in this manual, including all safety alert symbols such as "danger", "warning", and "caution" before using this cart. Failure to follow all instructions listed below may result in serious personal injury.

### WORK AREA SAFETY

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
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.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

### ELECTRICAL SAFETY

1. 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.

2. 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.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
4. 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.
5. 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.
6. If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of an GFCI reduces the risk of electric shock.

## **PERSONAL SAFETY**

1. 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.
2. Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
3. 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.
4. 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.
5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
6. Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
7. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
8. Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

## **POWER TOOL USE AND CARE**

1. 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.
2. 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.
3. Disconnect the plug from the power source and / or remove the battery pack, if detachable, 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.
4. 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.

5. Maintain power tools and accessories. 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.
6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. 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.
8. Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

## **BATTERY TOOL USE AND CARE**

1. 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.
2. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
3. 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.
4. 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.
5. Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in explosion or risk of injury.
6. Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 265°F (130°C) may cause explosion.
7. Follow all charging instructions and do not charge the battery pack or tool outside the Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

## **SERVICE**

1. 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.
2. Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.

## **SPECIFIC SAFETY RULES FOR IMPACT WRENCHES**

1. Hold power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring. Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
2. Wear ear protectors when impact drilling. Exposure to noise can cause hearing loss.
3. Use only sockets and other accessories specifically designed for use on impact wrenches and drivers. Other sockets and accessories might shatter or break causing injury.

4. Maintain labels and nameplates. These carry important information. If unreadable or missing, contact a Steelman® service facility for a free replacement.

**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 paint
- crystalline silica from bricks and cement and other masonry products, and
- 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.

### SPECIFICATIONS

<b>VOLTAGE</b>	20 V
<b>BATTERY (LI-ION)</b>	4.0 Ah
<b>NO-LOAD SPEED</b>	0-900/0-1400/0-1750 rpm
<b>MAX TORQUE</b>	1000 N.m
<b>BLOWS PER MINUTE</b>	0-1000/0-1800/0-2100 bpm
<b>CHUCK SIZE</b>	1/2" square-ring
<b>CHARGING TIME</b>	1.5 hour

### PRODUCT FEATURES

#	DESCRIPTION
1	1/2" Square Drive Anvil with Pin Detent
2	Control Switch
3	Trigger
4	3-Mode Drive Control
5	LED Light
9	Handle



## ASSEMBLY

**WARNING:** Recharge only with the charger specified for the battery. For specific charging instructions, read the operator's manual supplied with your charger and battery.

### REMOVING / INSERTING THE BATTERY

**WARNING:** Always remove battery pack before changing or removing accessories. To insert the battery, slide the pack into the body of the tool. Make sure it latches securely into place.

**WARNING:** Only use accessories specifically recommended for this tool. Others may be hazardous. Use only sockets and other accessories specifically designed for use on impact wrenches and drivers. Other sockets and accessories might shatter or break, causing injury.

### ATTACHING AND REMOVING ACCESSORIES 1/2" IMPACT WRENCH WITH PIN DETENT

1. Use only the appropriate size Square Drive Sockets.
2. To attach a socket, align the hole in the accessory with the detent pin on the anvil. Hold the detent pin in while pushing the socket onto the anvil. The detent pin will snap into place in the hole to secure the socket.
3. To remove the socket, insert a nail or other thin object into the hole in the accessory and press in the detent pin. Pull the accessory off the anvil.

### 1/2" IMPACT WRENCH WITH FRICTION RING

1. Use only the appropriate size Square Drive Sockets.
2. To attach a socket, align the accessory with the anvil and push it firmly over the retaining ring.
3. To remove the accessory, pull the accessory off the anvil.

## OPERATION

**WARNING:** Always remove battery pack before changing or removing accessories. Only use accessories specifically recommended for this tool. Others may be hazardous. To reduce the risk of injury, wear safety goggles or glasses with side shields.

### USING THE CONTROL SWITCH (FIG. 1)


The control switch may be set to three positions: forward, reverse, and lock. Due to a lockout mechanism, the control switch can only be adjusted when the ON / OFF switch is not pressed. Always allow the motor to come to a complete stop before using the control switch.


**FIG. 1**



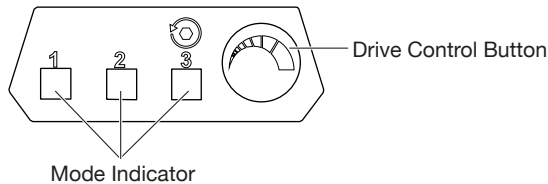
1. For forward (clockwise) rotation, push the control switch in the direction shown. Check the direction of rotation before use.
2. For reverse (counterclockwise) rotation, push the control switch in the direction shown. Check the direction of rotation before use.
3. To lock the trigger, push the control switch to the center position. The trigger will not work when the control switch is in the locked position. Always remove the battery pack before performing maintenance or changing accessories. Always lock the trigger or remove the battery pack before storing the tool and any time the tool is not in use.


## USING THE CONTROL DRIVE (FIG. 2)



The  button is used to adjust the torque, rotation speed (RPM), and impact speed (IPM) for the application. To select the drive control mode:

1. Push the control switch for forward (clockwise) rotation.
2. Pull and release the trigger to turn on the tool. The current mode indicator is lit.
3. Press  button to cycle through the 3 modes (speeds). When the desired mode indicator is lit, begin work.

**FIG. 2**



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MODE	RPM	IPM
1	0-900	0-1000
2	0-1400	0-1800
3	0-1750	0-2100
	0-1750*	0-2100*

In  mode (red light is on), when run in reverse, the tool will spin at the above RPM and IPM until the nut breaks free from the joint. Then, the tool will stop working. If you want to keep removing the nut from the bolt, press  button, the red light is off, the tool will continue spinning at the above RPM and IPM until you release the trigger.

## STARTING, STOPPING AND CONTROLLING SPEED


These tools may be operated at any speed from 0 to full speed.

1. To start the tool, pull the trigger.  
**NOTE:** An LED is turned on when the trigger is pulled.
2. To vary the driving speed, increase or decrease pressure on the trigger. The further the trigger is pulled, the greater the speed.
3. To stop the tool, release the trigger.

## IMPACTING TECHNIQUES


- The longer a bolt, screw, or nut is impacted, the tighter it will become. To help prevent damaging the fasteners or workpieces, avoid excessive impacting. Be particularly careful when impacting smaller fasteners because they require less impacting to reach optimum torque.
- Practice with various fasteners, noting the length of time required to reach the desired torque. Check the tightness with a hand-torque wrench. If the fasteners are too tight, reduce the impacting time. If they are not tight enough, increase the impacting time.
- Oil, dirt, rust or other matter on the threads or under the head of the fastener affects the degree of tightness. The torque required to loosen a fastener averages 75% to 80% of the tightening torque, depending on the condition of the contacting surfaces.
- On light gasket jobs, run each fastener down to a relatively light torque and use a hand torque wrench for final tightening.

## MAINTENANCE

 **WARNING:** To reduce the risk of injury, always unplug the charger and remove the battery pack from the charger or tool before performing any maintenance. Never disassemble the tool, battery pack or charger. Contact service facility for ALL repairs.

## MAINTAINING TOOL

Keep your tool, battery pack and charger in good repair by adopting a regular maintenance program. Inspect your tool for issues such as undue noise, misalignment or binding of moving parts, breakage of parts, or any other condition that may affect the tool operation. Return the tool, battery pack, and charger to service facility for repair. After six months to one year, depending on use, return the tool, battery pack and charger to service facility for inspection. If the tool does not start or operate at full power with a fully charged battery pack, clean the contacts on the battery pack. If the tool still does not work properly, return the tool, charger and battery pack, to service facility for repairs.

 **WARNING:** To reduce the risk of personal injury and damage, never immerse your tool, battery pack or charger in liquid or allow a liquid to flow inside them.


## CLEANING

Clean dust and debris from vents. Keep handles clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean, since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around tools.

## REPAIRS

For repairs, return the tool, battery pack and charger to the nearest service center.

## ACCESSORIES

 **WARNING:** Use only recommended accessories. Others may be hazardous.



## WARRANTY



# 1 YEAR | LIMITED WARRANTY

This STEELMAN® product is backed by a 1 Year Limited Warranty. This warranty covers manufacturer defects and workmanship. The warranty excludes misuse or abuse and normal wear and tear. Exclusion is not allowed in some states and may not apply. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state.

For questions / comments, technical assistance or repair parts,  
Please call toll free at: 1-855-706-1550 (M-F 6am - 4:30pm PST)

Before sending a unit back for repair, an RMA (return materials authorization) number must be obtained and written on the outer shipping box. Please submit a ticket online at <http://www.steelmantools.com/contacts> to receive an RMA number. We will determine if the unit needs to come in for repairs or replacement. Warranty claims that cannot be processed through the point of purchase and any other product related questions should be addressed directly to JS Products.







# STEELMAN<sup>®</sup>

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