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STEELMAN®

20V CORDLESS 1/2" DRIVE BRUSHLESS DRILL OPERATOR'S MANUAL



⚠ 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 desired 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 residual current device (RCD) protected supply. Use of an RCD 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.
9. Recommended for the operator to wear hearing protection.

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.

DRILL SAFETY WARNINGS

1. Wear ear protectors when impact drilling. Exposure to noise can cause hearing loss.
2. Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.

3. Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a “live” wire may make the exposed metal parts of the power tool “live” and could give the operator an electric shock.


SCREWDRIVER SAFETY WARNINGS

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.

SPECIAL SAFETY INSTRUCTION FOR BATTERY PACKET AND CHARGER

If under extreme conditions any electrolyte should escape from the battery, it's essential to avoid contact with skin. If electrolyte does come into contact with your skin, rinse it off with water. In the event of electrolyte contact with your eyes, it's essential to consult a doctor.

1. This appliance is not intended for use by the persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
2. Children should be supervised to ensure they do not play with the appliance.
3. Before the use of the charger and battery packet, read the instruction manual for it carefully.
4. During the charge process, the current used should corresponding to the current of the battery charger.
5. Never let moisture, rain or splashed water reach the charging location.
6. The ambient temperature must not exceed 40° C. Never expose the device to direct insulation.
7. Storage-battery packet, which are defective or damaged or can no longer be recharged must be disposed of as hazardous waste. Hand them over at a special collection point. Never harm our environment. Do not throw away unusable storage-battery packet away into domestic waster, into fire or into water.
8. If the electrical cable is damaged, the wire may only be replaced by the supplier or by his repair workshop. Have repairs carried out only by an authorized specialist only.
9. Use only storage-battery packet, which have been produced by the original manufacturer.
10. Always keep the surface of the charger free from dust and dirt
11. Insert the battery packet into the charger. Follow the guidelines provided concerning polarity.
12. Always remove battery packet before working on the machine.
13. When the battery packet is outside the drill, cover the contacts to avoid short circuits (e.g. from tools).
14. Do not throw batteries into water or fire, risk of explosion!
15. Protect the battery packet from impacts, and do not open it.
16. Never discharge the battery packet completely and recharge occasionally if not used for a prolonged period.

 **RESIDUAL RISKS:** Even when the tools are used as prescribed, it is not possible to eliminate all residual risk factors.

The following hazards may arise in connection with the tool's construction and design:

1. Damage to lungs if an effective dust mask is not worn.
2. Damage to hearing if effective hearing protection is not worn.
3. Health defects resulting from vibration emission if the power tool is being used over longer period of time or not adequately managed and properly maintained.

WARNING: This machine produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of series of fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this machine.

SPECIFICATIONS

| | |
|---|----------------------------|
| MODEL | WM-BL18LiC |
| RATED VOLTAGE | 20 V Max |
| NO-LOAD SPEED | 0-500 min-1 / 0-2000 min-1 |
| RANGE OF DRILL BIT SIZES | 2-13 mm |
| DECLARATION OF THE NOISE EMISSION VALUES ACCORDING TO EN 60745 (considered uncertainty 3 dB) | |
| SOUND PRESSURE LEVEL | 85 dB(A) |
| SOUND POWER LEVEL | 96 dB(A) |
| DECLARATION OF THE VIBRATION EMISSION ACCORDING TO EN 60745 (considered uncertainty 1.5 m/s²) | |
| IMPACT DRILLING INTO CONCRETE (M/S²) | 9.138 |
| DRILLING INTO METAL (M/S²) | 1.900 |
| SCREWDRIVER WITHOUT DRILL MODE (M/S²) | 0.673 |

PRODUCT FEATURES

| # | DESCRIPTION |
|---|------------------------------------|
| 1 | Speed Selector |
| 2 | Keyless Chuck |
| 3 | Torque Selector |
| 4 | Mode Selector |
| 5 | LED Light |
| 6 | On / Off Switch with Speed Control |
| 7 | Left / Right Switch |
| 8 | Handle |
| 9 | Battery Pack |



CHARGING

1. Put the battery pack in the charger stand. Make sure it is placed correctly (+ and -).
2. Plug in the socket-outlet (230-240V~).
3. When the green indicator light lights up and the red indicator light is blinking, this means the battery pack is now being charged. Normally it will take 3-5 hours to fully charge the battery. When the red indicator stops blinking, this means the battery is fully charged.
4. Unplug the plug after charging.

⚠ CAUTION: Fully charge battery before first use. The battery will reach full capacity after being charged and discharged several time. Avoid short periods of charging. Only charge battery pack when fully empty. Adaptor, charger and battery pack will be warm when charging; this is normal.

OPERATION

⚠ WARNING: Wear hearing protection while operating the power tool. The declared vibrational total value has been measured in accordance with the standard test method and may be used for comparing one tool with another. The declared vibrational total value may also be used in a preliminary assessment of exposure.

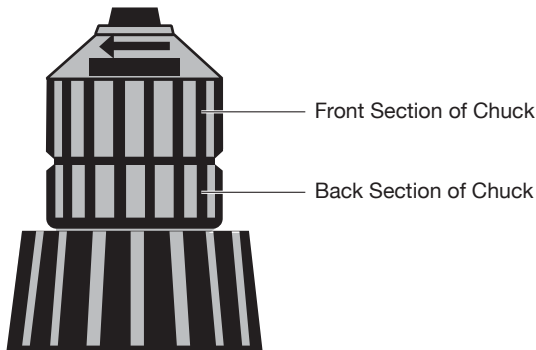
⚠ WARNING: The vibrational emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tools is used.

There is the need to identify safety measure to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

INSERTING DRILL BITS / SCREWDRIVER BITS (FIG. 1)

1. To insert a drill bit / screwdriver bit, hold the back section of the chuck and rotate the front section of the chuck.
2. Insert the drill bit / screwdriver bit into the chuck (as far as possible).
3. For screwdriver bits use an adapter.
4. Select the correct screwdriver bit to avoid damaging the screw.
5. Firmly tighten the chuck by hand and check if the drill bit / screwdriver bit is seated firmly in the chuck.





FIG. 1



ON / OFF SWITCH

1. To switch on the tool, press the on/off switch.
2. To switch off the tool, press the on/off switch.

LEFT / RIGHT SWITCH

1.  /  Shown on the left / right switch.
2. Set left / right switch to  or 
3. Change direction of rotation only when the machine is not in operation.

⚠ CAUTION: Operating the machine with a low speed for a long time will increase the risk that the motor will be overheated. To prevent overheating, let the motor cool down regularly (Stop using the machine for 15 minutes).

VARIABLE SPEED

- Lower speed: switch Speed convert button to position “1”.
- Higher speed: switch Speed convert button to position “2”.

TORQUE SETTING

- The torque setting will help you regulate the driving power when using a screwdriver bit. This will help to prevent damage to the work piece and / or screw.
- For drilling set the torque selector the position indicated by the drill bit symbol.
ADVICE: Always start with the lowest torque setting and increase if necessary.

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.

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.



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