108SD14K

STEELMAN®

10.8V CORDLESS SCREWDRIVER KIT

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.
7. Hold power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring or its own cord. Fasteners contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an 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. To ensure the designed operational integrity of power tools, do not remove installed cover or screws.
2. Use your tool at lower input than specified on the nameplate, otherwise, the finish may be spoiled and working efficiency reduced by motor overload.
3. Do not wipe plastic parts with solvent. Solvent such as gasoline, thinner, benzene, carbon tetrachloride, alcohol, ammonia and oil containing chloric annex may damage and crack plastic parts. Wipe plastic parts with a soft cloth lightly dampened with soap water.
4. Use clamps or other practical ways to secure and support the work piece to a stable platform. Holding the work by hand or against your body is unstable and may lead to a loss of control.
5. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may create a risk of injury when used on another tool.

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 CHARGER AND BATTERY PACK

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. To reduce risk of injury, charge only specific type rechargeable battery packs. Other types of battery packs may burst causing personal injury and damage.
2. Before using charger, read all instructions and cautionary markings on battery packs and chargers.
3. Do not expose charger to rain or snow.
4. To reduce the risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
5. Use of an attachment not recommended or sold by the charger manufacturer may result in a risk of fire, electric shock, or injury to persons.
6. Make sure cord is located so that it will not be stepped on, tripped on, tripped over, or otherwise subjected to damage or stress.
7. Do not operate charger with damaged cord or plug. Replace them immediately.
8. Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way, take it to qualified center.

9. To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.
10. Do not disassemble charger or battery pack, take it to a qualified service center while repair is required. Incorrect reassembling may result in a risk of electric shock or fire.
11. Do not charge battery pack when temperature is below 32°F (0°C) or above 104°F (40°C).
12. Do not attempt to use a set-up transformer, an engine generator or DC power receptacle.
13. Do not allow anything to cover or clog the charger vents.
14. Always cover the battery pack terminals with the battery pack cover when the battery pack is not in use.
15. Do not short the battery pack.
16. Do not touch the terminals with any conductive material.
17. Avoid storing battery pack in a container with other metal objects such as nails, coins, etc.
18. Do not expose battery pack to water or rain. A battery pack short can use large current flow overheating, possible burns and even a breakdown.
19. Do not store the machine and battery pack in locations where the temperature may reach or exceed 122°F (50°C).
20. Do not incinerate the battery pack even if it is severely damaged or completely worn out. The battery pack can explode in a fire.
21. Be careful not to drop, shake or strike battery pack.
22. Do not charge inside a box or container of any kind. The battery pack must be placed in a well ventilated area during charging.
23. Do not leave batteries unused for extended period of time. Recharge the battery every 3-6 months and bring Li-Ion battery to 40-80% charge level before storage.
24. Li-Ion batteries are sensitive to high temperature and should be kept in a cool and dry location. Do not store or use in direct light exposure. Ideal temperature for operation and storage is below 77°F (25°C).
25. For extension of the battery lifetime, the lithium-ion battery is designed with the protection function to stop the output. In the cases described below, when using this product, even if you are pulling the switch, the motor may stop. This is not malfunction but the result of the protection function.
    - When the battery power remaining runs out, the motor stops.
    - If the tool is overloaded, the motor may stop. In this case, release the switch of the tool and eliminate the causes of overloading. After that you can use it again.
    - If the battery is overheated under overload work, the battery power may stop. In this case stop using the battery and let the battery cool. After that you can use it again.
26. This product is designed with low voltage protection, which prevents the tool from over discharging and prolongs battery's lifespan.

SPECIFIC SAFETY RULES / SYMBOLS	
♻	Recycle
	Do not throw away
a.c.	Alternating Current
W	Watts
mm	Millimeter
kg-cm	Kilograms - Centimeter
RPM	Revolutions / Reciprocations Per Minute
⧈	Class II Tool
V	Volts
Hz	Hertz
kg	Kilograms
d.c	Direct Current
ft. lb.	Foot-Pound

CHARGING TIME		
CHARGER / **BATTERY PACK**		**MODEL #:** 108LC70
10.8 V	1.5 Ah	60 min
	2.0 Ah	70 min
	2.5 Ah	80 min
Minutes Auto Cut-Off Charging Time (approximately)		

The charging time may vary from the battery life and room temperature.

SPECIFICATIONS	
MODEL	108SD14K
RATED VOLTAGE	10.8V d.c.
NO-LOAD SPEED	Low: 0~360 RPM High: 0~1550 RPM
MAX TORQUE	240 kg-cm / 23.5 Nm / 17 ft. lb.
TOOL WEIGHT	1.5 lbs (0.68 kg)
BATTERY WEIGHT	0.41 lbs (0.19 kg)
CAPACITY	1/4" (6.35 mm)
VIBRATION	9.48 ft/s^2 (2.89 m/s^2)
NOISE	84.5 dB

PRODUCT FEATURES	
#	**DESCRIPTION**
1	Bit Holder
2	LED
3	Main Switch
4	Battery Pack
5	Torque Adjustment Ring
6	High / Low Speed Rod
7	Forward / Reverse Rod
8	Battery Locking Tabs

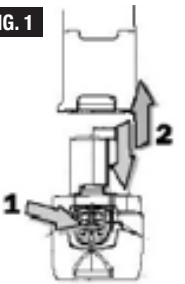


BATTERY AND CHARGING

REMOVING OR INSTALLING BATTERY PACK (FIG. 1)

1. Always switch off the machine before inserting or removing of the battery pack.
2. To remove the battery pack, push the button on the battery pack and pull the tool unit from the battery pack in the direction. (See Fig. 1)
3. To insert the battery pack, align the tool unit slides with the battery pack sliding groove and push the tool unit into place. The tool unit can be slid into the battery pack in two directions.
4. Do not force the battery pack into the tool unit.
   If the battery pack does not slide in easily, it is not being inserted correctly.

FIG. 1

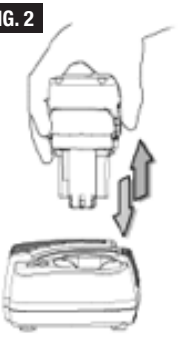


CHARGING THE BATTERY PACK (FIG. 2)

5. Plug the fast charger into the power source.
6. Slide the battery pack into the charger as the arrow direction shown on the charger.
7. Your new battery pack is not charged and needs to be charged before use.
8. Push the battery pack into place and make sure the red light on the charger is “ON”. The battery pack is now starting the charging cycle. (See Fig. 2)
9. After the charging cycle finished, the light will turn to green. The battery pack is now ready for use.
10. Always use the specified charger to charge the battery. When the battery pack is inserted into the charger correctly, the red light will come on and charging will begin.
11. When you charge a new battery pack or a battery pack which has not been used for a long period, it may not accept a full charge. This is a normal condition and does not indicate a problem. You can recharge the battery pack fully after discharging it completely a couple of times.
12. Unplug the charger from the power source after finishing the charge.
13. Please remove the battery from the unplugged charger for storage.

BATTERY CHARGER LIGHT MEANINGS	
	Power On (Green light flashes slowly)
	Battery Low (Red light stays illuminated)
80%	Battery Charged 80% (Green light flashes rapidly)
	Battery Charged 100% (Green light stays illuminated)
	Battery Pack Temperature is Too Hot or Too Cold (Red light flashes slowly)
	Battery Pack Malfunction (Red and Green lights stay illuminated)

FIG. 2



ADDITIONAL BATTERY WARNINGS

1. Charger should be plugged into a 100-240V a.c. outlet only.
2. If the battery pack is too hot or too cold, the charger will not fast charge the battery pack and the red indicator light will be “blinking”. When the battery pack temperature returns between 32ºF (0ºC) and 122ºF (50ºC), the charger will automatically begin charging.
3. If both red and green indicator lights are “ON” the battery pack either does not comply or is defective. Please contact your retailer.
4. Do not charge the battery pack in the rain, snow or high temperature environment.
5. Do not charge battery pack when environment temperature is below 32ºF (0ºC) or above 104ºF (40ºC).
6. If battery pack is below 32ºF (0ºC), before charging bring into warm indoors and keep the battery pack in the room for one hour to warm up before using the battery pack.
7. Remove the plug after finishing the charge.
8. The charger should be cooled at least one hour after continuous charging of three times.
9. Do not use generator for charging the battery pack.

OPERATION

TORQUE SETTINGS (FIG. 3)

1. There are total of 10 sections plus 1 drill of torque settings on the tool. Adjust the proper setting to the job.
2. For drilling application, use the maximum torque setting.
3. Adjust the torque ring to select the  sign for the maximum torque position if you would like to drill.

FIG. 3



INSTALLING OR REMOVING BITS (FIG. 4-5)

1. Always be sure that the machine is switched off and the battery pack is removed before installing or removing the bit.
2. To install the bit, pull the retainer in the direction of the arrow and insert the bit into the retainer as far as it will go. Then release the retainer to secure the bit.

   NOTE: (See Fig. 4) If the bit is not inserted deep enough into the retainer, the retainer will not return to its original position and the bit will not be secured. In this case, try-inserting the bit according to the instructions above.
3. To remove the bit, pull the retainer in the direction of the arrow and pull the bit out firmly.
4. For reversing the machine, (See Fig. 5) use the forward / reverse bar on the drive unit. The directions of the rotation are also shown on the face of the bar.
5. Always check the direction of rotation before operation.

6. Use the forward / reverse bar only after the machine comes to a complete stop. Changing the direction of rotation before the machine stops may damage the machine.
7. Hold the machine firmly and place the point of driver bit in the screw head. Apply forward pressure to the machine to the extent that the bit will not slip off the screw and turn the machine on to start operation.
    - Use the proper bit for the proper application.
    - Hold the machine pointed straight at the screw. If you tighten the screw for a time longer than it needs, the screw or the driver bit may be overstressed, stripped, damaged, etc. Before starting your job, always perform a test operation to determine the proper tightening time for your screw. When tightening a standard screw in a steel plate, the proper tightening torque can be obtained in an extremely short time.
    - When the battery pack is discharged almost completely, voltage will drop and the tightening torque will be reduced.
    - Driver bit or socket bit: Failure to use the correct size driver bit or socket bit will cause a reduction in the tightening torque.
    - For driving a bolt: Even though the torque coefficient and the class of bolt are the same, the proper tightening torque will differ according to the diameter of the bolt.
8. The manner of holding the machine or the material of driving position to be tightened will affect the torque. Operating the machine at low speed will cause a reduction in the tightening torque.

FIG. 4

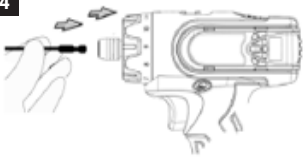


FIG. 4



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. 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



90 DAY | LIMITED WARRANTY

This STEELMAN® product is backed by a 90 Day 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®

03.25.2022

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