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OPERATING MANUAL



FSG175 FENCE STAPLE GUN



To reduce the risk of possible injury, read the instructions before using the tool. Do not use the tool if you don't understand the instructions. Do not use tools without warning and/or danger labels.

Keep the manual in a safe place for future reference.

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1. GENERAL WARNING

GENERAL SAFETY WARNING

-  Always wear approved safety glasses with side shields or other approved front and side eye protection, when handling, operating or servicing the tool. It is employer's responsibility to enforce user and all other nearby personnel at worksite to wear eye protection when the tool is operated. Failure to wear complete eye protection can result in serious injury. 
-  Wear hearing protection at the job site. Constant or repeated unprotected exposure to noise may cause permanent hearing loss. 
-  Wear approved head protection whenever working in an area where overhead work or the operation of other fastening tools may pose a potential overhead hazard. Head protection should also be worn when working around scaffolding, elevated work platforms, ladders, or any other work platform that is elevated and poses a risk of injury from falling items or the operation of hand and power tools. Failure to wear approved head protection can result in serious head injury. 
-  Beware of the danger of entangled clothing and hair. Do not dress loose clothing and jewelry at work. Keep your hair, clothing and gloves away from moving parts of the tool.
-  Keep your finger AWAY from the trigger when the tool is not in use. This will prevent accidental firing of the tool.
-  This tool is not designed to be used in an explosive atmosphere. The tool can generate sparks and the exhaust can also cause possible danger to ignite highly flammable fuel or gas. Do not use the tool in this kind of environment. Do not smoke while using or handling the tool and fuel cell.
- The fuel cell contains high pressure liquefied gas. Keep it away from sparks, fire, high temperatures and explosive environments. Do not puncture the bottle or attempt to open the fuel cell. When the fuel is used up, do not burn the cell. Follow the recycle instructions.
- Do not store the tool in temperatures above 120°F (50°C). High temperature can result in explosion or fire and the release of flammable gas. When not in use, keep the tool away from high temperature sources, like direct sun light.
- The tool needs to be used in a well ventilated area. Do not inhale the exhaust gasses or fume, because these are a potential health risk.

- Keep body balance when operating the tool, do not over reach.
- Keep the tool, fuel, charger and battery out of the reach of children. The tool is dangerous in the hand of untrained persons.

TOOL SAFETY WARNING

-  Do not modify or repair the tool in any method other than the original design. The tool may function unexpectedly after the modification and result dangerous.
- Never point the nozzle of the tool to anyone including yourself. This tool will be dangerous if not used with care. Always assume the tool is loaded with fasteners and fuel.
- Never drive fasteners in extremely hard materials or directly on top of other fasteners. The tool may recoil or the fastener can ricochet away from the work piece, causing injury to the operators or bystanders.
- Use only lubrication liquid specified in this manual to perform the lubrication. The use of other lubrication may damage the tool and lead to malfunctioning that can injure the operators or bystanders.
- Keep the tool in clean condition, wipe off grease or oil after work. Do not use any solvent based cleaner to clean the tool. It is possible the solvent will deteriorate the rubber or plastic components of the tool. A greasy handle and tool body may cause accidental drop of the tool and injury to nearby persons.
-  Always use fasteners of the type and dimensions specified for this tool model. The use of incorrect or improperly sized fasteners can cause jamming, cutting or separation of the fastener head, and/or loss of fastener control during driving, and result in risk of injury from flying fasteners or fastener debris.
- Do not use the tool to perform other jobs than the designated function. Especially not use the tool as a hammer, impact on the tool will increase the risk of a cracked body and accidental discharge of fasteners.
- Remove the fuel cell and battery before performing maintenance, repair, cleaning and jam clearing.
- Load the fastener at last to prevent unexpected danger of loading fuel cell and battery.
- Never use the tool if the trigger and safety or springs are damaged in any way.
- When fastening electrical cables, make sure the cables are not connected to the power supply. Hold the tool only by insulated gripping surfaces. Use only fasteners designed for electrical cable installations. Inspect that the fastener has not damaged the insulation of the electrical cables. A fastener that damages the insulation of electric cables can lead to electric shock and fire hazards.

FUEL SAFETY WARNING

- Use only the fuel cells recommended by the manufacturer. Read the Safety Data Sheet to understand more about your fuel cell contents.
- Recycle the empty fuel cell according to the local law. Do not attempt to recharge the fuel cell. Don't burn the empty fuel cell.
- Do not expose the fuel cell or tools loaded with a fuel cell to direct sun light. Prevent exposure to temperatures higher than 120°F(50°C). Overheating the fuel cell can result in explosion or fire.
- Do not puncture or attempt to open the fuel cell. The fuel cell contains flammable gas even if it appears empty.
- The content of the fuel cell is extremely flammable, keep it away from all possible sources of ignition.

BATTERY SAFETY WARNING

- Use only batteries that are supplied by the manufacturer.
- Recycle the battery according to local law. Do not burn the battery or attempt to puncture or crush the battery.
- Do not immerse the battery into water or other fluids. Do not expose the battery to rain or snow.
- Do not expose the battery or tools loaded with a battery to direct sun light. Prevent exposure to temperatures higher than 120°F(50°C). Overheating the battery can result in explosion or fire.
- Do not allow direct contact of the battery nodes with metal or conductive material.
- Charge the batteries every 3 months, even if the tool is not used.

CHARGER SAFETY WARNING

- Do not use the charger in an explosive atmosphere. The electrical device is not designed for use in such environment.
- Do not charge the battery outdoors or in temperatures below 40°F (5°C).
- Do not puncture or attempt to open the battery case or cells.
- Do not immerse the charger into water or other fluids. Do not expose the charger to rain or snow.
- Do not use the charger if the cord is damaged or the charger is defect.
- Unplug the charger by pulling the adaptor unit, not by pulling the cord.
- Do not cover the charger with anything.
- Do not use a step up transformer or engine generator as power source of the charger.
- Charge a new battery for at least 6 hours before using it for the first time.

2. OPERATION INSTRUCTION

LOAD AND UNLOAD THE FUEL CELL

- Open the fuel cell door by pulling the door and rotate.
- Insert the fuel cell into the chamber. Align the fuel cell nozzle with the fuel stem on the tool.
- Close the fuel cell door.



LOAD AND UNLOAD THE FASTENER

- Connect to battery and fuel cell before you load the fasteners. The tool can cycle once when connected to the battery. If you load the fastener before the battery is connected, the fastener may be shot accidentally.
- Point the nozzle away from any personnel and keep your finger away from the trigger when loading the fastener.
- To load the staples, pull the pusher to the rear until it is locked to the magazine.
- Insert the staple strips in the magazine.
- Release the pusher.
- To unload the fastener from the tool, pull the pusher to the rear locking position. Take the staples out of the magazine.



DEPTH OF DRIVE ADJUSTMENT

- This tool is equipped with tool free depth of drive adjustment. Test the depth of drive on a scrap piece before you start your work.
- Turn the knob to adjust the depth of drive.
- Repeat above procedure until you find the desired setting.



ACTUATION SYSTEM

- This tool is equipped with a full sequential trigger system.
- To actuate the tool, depress the safety against the work piece, and then pull the trigger.
- To actuate the tool again, you will need to release the safety fully and release the trigger before you can repeat above procedure.
- Make sure you are driving against the work piece before you pull the trigger.

JAM CLEARING

- In the case of staple jam, disconnect the power source (fuel cell and battery) before you perform any action.
- Use a screw driver to insert into the drive channel.
- Hit the screw driver with a hammer to push back the driver blade and release the jam.
- Remove the jammed staple with needle nose pliers or a similar type of tool. Do not use your hand to remove the staple.
- If you failed to remove the jammed staple in this way, remove the magazine by loosening the connecting bolt. Remove the jammed staple with needle nose pliers. Re-assemble the magazine before further use.



CHARGE THE BATTERY AND LED ON TOOL AND CHARGER

- The tool is supplied with two batteries. It will take 2 hours before a battery is fully charged.
- There will be no LED light when the charger is connected to the power supply but no battery is on the charger.
- The LED on the charger will turn red when it is charging a battery.
- The other LED will turn green when the battery is fully charged.
- In the case of battery failure, the red and green LED will blink in sequence.
- When the tool is connected to a charged battery, the LED indicator on the tool will turn green.
- If the tool is running out of battery, the LED indicator will turn red. When the LED indicator turns red, stop using the tool and replace the battery.

3. MAINTENANCE INSTRUCTION

WARNING: disconnect the power source (fuel cell and battery) before performing any maintenance

GENERAL MAINTENANCE

Keep the tool in clean condition at all times. Wipe off grease or oil with a dry clean cloth to prevent accidental tool drop. Avoid using a solvent base cleaner to clean the tool, certain solvent will damage or weaken the composite parts of the tool. Clean the intake filter regularly to keep the tool in full efficiency.

LUBRICATION AND CLEANING

- This tool should not need extra lubrication since the fuel already contains some lubrication oil.
- The combustion chamber and cylinder can be cleaned by applying automobile carburetor cleaner. You will need to remove the 2 screws on the handle and 4 screws on the top cap to expose the internal component of the cylinder.

COLD WEATHER

This tool is not designed to be used in cold winter. The cold weather will decrease the combustion efficiency and also the battery performance. Use the tool only at temperatures above 19°F (-7°C).

4. TROUBLE SHOOTING

SYMPTOM	PROBABLE CAUSE AND SOLUTION
<p>Red LED indicator light is on and the tool does not operate.</p>	<ul style="list-style-type: none"> ● Battery charge might be too low. ● Replace battery with a fully charged one.
<p>Tool operates normally but does not drive the staples to flush.</p>	<ul style="list-style-type: none"> ● Adjust the depth of drive setting to deepest. ● Clean the cylinder with proper cleaner. ● Check fuel cell and replace if required. ● Depress the safety and hold for one minute before activating the trigger. If the tool did not fire, there might be a seal leaking in the combustion chamber.
<p>Fan does not run and the indicator light is red.</p>	<ul style="list-style-type: none"> ● The battery is out. Replace the battery with a fully charged one. ● The battery contact is dirty or oily. Clean the battery contact with a clean cloth. ● If all above did not work, send to service center near you.
<p>Battery does not accept charge or the charger gets hot when charging.</p>	<ul style="list-style-type: none"> ● Replace the battery. If this action corrects the problem, the battery is damaged or exhausted. ● Replace the charger if the battery works fine on the tool but cannot be charged on charger.
<p>Charger gets hot, makes noise or starts to smoke</p>	<ul style="list-style-type: none"> ● The charger is damaged and should not be used any more. Unplug the charger immediately and replace it with a new one.
<p>Work contact element is not fully depressed and the tool cannot be used.</p>	<ul style="list-style-type: none"> ● The work contact element is bent or the track of the safety mechanism is sticky because of dirt build up. Clean the safety track. Repair or replace the work contact element.

SYMPTOM	PROBABLE CAUSE AND SOLUTION
<p>Tool does not cycle, the indicator LED is green and the fan runs.</p>	<ul style="list-style-type: none"> ● Run out of fuel, load a new fuel cell. ● Spark wire is loose, check the spark wire by removing the cap. ● Spark plug is dirty. Clean the spark plug. ● If all above did not work, send to service center near you.
<p>Tool operates normally, but no staple is driven.</p>	<ul style="list-style-type: none"> ● Wrong type of staples was used. Change to the correct dimensions. ● The cylinder needs cleaning. ● Staple is jammed, clean the jammed staple before use. ● The pusher did not engage properly with the staple strip. Adjust to full engagement.
<p>Combustion chamber is not returning to start position.</p>	<ul style="list-style-type: none"> ● The work contact element is bending or dirty. Check the work contact element and repair or replace it. Clean the safety track.
<p>Driver did not return to initial position, misfire frequency is higher than usual.</p>	<ul style="list-style-type: none"> ● Check and replace fuel cell. ● Clean the tool with proper cleaning fluid. ● Check for piston O-ring wear status. ● The tool may be over heated. Clean or replace the intake air filter.
<p>Tool appears to be losing power.</p>	<ul style="list-style-type: none"> ● Check fuel cell. ● Clean or replace air intake filter. ● Check spark plug wire. ● Clean the tool with proper cleaning fluid.
<p style="text-align: center;">For other problems: contact Kencove at 1-800-KENCOVE.</p>	

