

BENCHMARKTM MC

14" 40V MAX CORDLESS & BRUSHLESS GARDEN TILLER

Item # 5140-014



LIMITED
5 YEAR*
WARRANTY

Includes 2 (4Ah) batteries & 1 dual charger
5 Year Limited Warranty on tool
3 Year Limited Warranty on battery and charger



ASVRTM0118040

**READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.**

Uses two 20V Max lithium-ion batteries that deliver an initial battery voltage (measured without a workload) of 40 volts. Nominal voltage is 36V.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

PRODUCT SPECIFICATIONS

14" 40V MAX CORDLESS & BRUSHLESS GARDEN TILLER

Voltage	40V (2 x 20V) No Load
No load	180 RPM
Adjustable tilling width	up to 14" (360 mm)
Tilling Depth	Max 7.1" (180mm)
Tines	4 metal
Height Adjustment	3 positions
Tool operating weight	20.5 lbs (9.3 kg)

BATTERY AND CHARGER

Battery voltage	2x20V 4 Ah Li-ion (Maximum charged battery voltage, measured without load, is 20V with a nominal value of 18V)
Dual charger	Up to 120 minutes

REPLACEMENT PARTS AVAILABLE AT HOME HARDWARE

Replacement battery	5350-012 (5Ah)
Replacement charger	5350-024 dual 2.4A charger (charge 2.0Ah to 5.0Ah) 5350-048 dual 4A charger (charge 2.0Ah to 8.0Ah) 5350-022 6A fast charger (charge 2.0Ah to 8.0Ah)

NEED ASSISTANCE?

Call us on our toll-free customer support line:
1-866-349-8665 (Monday through Friday 9am – 5pm Eastern Standard Time)

- Technical questions
- Replacement parts
- Parts missing from package

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GENERAL SAFETY WARNINGS

⚠️ WARNING: Before using this tool or any of its accessories, read this manual and follow all Safety Rules and Operating Instructions. The important precautions, safeguards and instructions appearing in this manual are not meant to cover all possible situations. It must be understood that common sense and caution are factors which cannot be built into the product.

The instruction manual includes the following:

- General Safety Warnings
- Specific Safety Rules and Symbol
- Functional Description
- Assembly
- Operation
- Maintenance

EYE, EAR & LUNG PROTECTION



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA REQUIREMENTS or ANSI SAFETY STANDARD Z87.1

FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection.

⚠️ WARNING! Non-compliant eyewear can cause serious injury if broken during the operation of a garden tool.

ALWAYS WEAR EAR PROTECTION

⚠️ WARNING! Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.

WEAR A DUST MASK THAT IS DESIGNED TO BE USED WHEN OPERATING A GARDEN TOOL IN A DUSTY ENVIRONMENT.

⚠️ WARNING! Dust that is created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals that are known to cause cancer, birth defects, or other genetic abnormalities. These chemicals include: Lead from lead-based paints; Crystalline silica from bricks, cement, and other masonry products; Arsenic and chromium from chemically treated lumber. The level of risk from exposure to these chemicals varies, according to how often this type of work is performed. In order to reduce exposure to these chemicals, work in a well-ventilated area, and use approved safety equipment. such as a dust mask that is specifically designed to filter out microscopic particles.

KNOW YOUR TILLER. READ OPERATOR'S MANUAL CAREFULLY

- Learn its applications and limitations, as well as the specific potential hazards related to this tiller. Know how to stop the unit and disengage the controls quickly.
- Following this rule will reduce the risk of electric shock, fire, or serious injury.
- Do not allow children or untrained individuals to use this unit.
- Powered walk-behind tiller work is strenuous. You must be in good physical condition and mentally alert. If you have any condition that might be aggravated by strenuous work, check with your doctor before operating a powered walk-behind tiller.
- Always wear eye protection with side shields marked to comply with ANSI Z87.1.
- Following this rule will reduce the risk of serious personal injury.
- Use Safety Glasses – Wear a face or dust mask if the operation is dusty. Always wear safety glasses with side shields. Everyday glasses have only impact resistant lenses. They are NOT safety glasses. Following this rule will reduce the risk of eye injury.
- Protect your lungs. Wear a face or dust mask if the operation is dusty.
- Dress Properly – Do not wear loose clothing or jewellery. They can be caught in moving parts. Use of leather gloves and substantial footwear is recommended.
- Wear heavy, long pants, long sleeves, boots, and leather gloves. Do not wear short pants, sandals, or go barefoot. Do not wear jewellery of any kind. Secure long hair above shoulder level to prevent entanglement in moving parts.
- Keep children away - Keep all bystanders, children, and pets at least 50 ft. away.
- Stay alert, watch what you are doing and use common sense when operating a tiller. Do not use tiller while tired, upset, ill, or under the influence of drugs, alcohol, or medication. A moment of inattention while operating tillers may result in serious personal injury.
- Do not operate in poor lighting.
- Keep all parts of your body away from any moving part.
- 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.
- Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- Avoid Dangerous Environments - Don't expose appliance or tiller to rain or wet conditions. Water entering an appliance or tiller will increase the risk of electric shock.
- Do not force tool. Use the correct tool for your application.
- Don't force the tool- It will do the job better and with less likelihood of a risk of injury at the rate for which it was designed.
- Do not operate the equipment while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces.

- Do not overreach - Keep firm footing and balance. Overreaching can result in loss of balance.
- Do not use tool if bail bar does not turn it on or off. Any tool that cannot be controlled with the bail bar is dangerous and must be repaired.
- Disconnect battery pack - Disconnect battery pack from the appliance before storing, servicing, or changing accessories such as tines. Such preventive safety measures reduce the risk of starting the tool accidentally.
- Use only identical manufacturer's replacement parts and accessories. Use of any other parts may create a hazard or cause product damage.
- Check for damaged parts - Before further use of the tool, any part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service dealer.
- Never operate the machine without proper guards, plates, or other safety protective devices in place.
- Keep all fasteners tight to be sure the tiller is in safe working condition.
- Use only the manufacturer's replacement tines. Do not use any other cutting attachment, for example, metal wire, rope etc. Installing any other brand of tines to this tiller can result in serious personal injury.
- Never operate unit without the tines shield in place and in good condition. Maintain a firm grip on both handles while tilling.

IMPORTANT SAFETY WARNINGS

- Following this rule will reduce the risk of serious personal injury.
- Store idle appliances indoors - When not in use, tiller should be stored indoors in a dry, locked place out of the reach of children.
- Inspect area to be tilled. Remove objects (rocks, broken glass, nails, wire, string, etc.) which can be thrown by tines.
- Be extremely careful when tilling in hard ground. The equipment may unexpectedly bounce upward or jump forward if the tines should strike buried obstacles such as large stones, roots, or stumps.
- Keep the air vents clean and free of debris to avoid overheating the motor. Clean after each use.
- Never operate the tiller without good visibility or light.
- Rotating tines can cause severe injury; do not allow hands, feet, or any other part of the body or clothing near the rotating tines or any other moving part. The tines begin to rotate once the safety button depressed and bail bar is pulled. The tines continue to rotate until the bail bar is released.
- Do not operate the machine without wearing adequate outer garments. Avoid loose garments or jewellery that could get caught in moving parts of the machine or its engine.
- Do not put hands or feet near or under tines.
- Always refer to the operator's manual for important details if the tiller is to be stored for an extended period.

- Do not use near underground electric cables, telephone lines, pipes, or hoses. If in doubt, contact your utility or telephone company to locate underground services.
- If the unit strikes a foreign object, stop the motor, disconnect the battery pack, thoroughly inspect the machine for any damage, and repair the damage before restarting and operating the machine.
- If the tiller should start to vibrate abnormally or become noisy, stop the motor and check immediately for the cause. Abnormal noise is generally a warning of trouble.
- Stop the motor and disconnect the battery pack before unclogging the tiller and when making any repairs, adjustments, or inspections.
- Do not overload the machine capacity by tilling too deep in a single pass or at too fast a rate.
- Be aware that the equipment may unexpectedly bounce upward or jump forward if it should strike buried obstacles such as large stones, roots, or stumps.
- After extended periods of use, the tiller gearbox may become hot. To avoid burns, do not touch the gearbox until it has had time to cool down.
- Do not use any attachments or accessories not recommended by the manufacturer of this product.
- Never operate the equipment on a slope.
- Use extreme caution when pulling the machine towards you.
- Start the unit carefully according to instructions from a normal operating position and with feet well away from the tines, do not force tiller. It will do the job better and with less likelihood of a risk of injury at the rate for which it was designed.
- Maintain tiller with care. Keep tines clean for best performance and reduce the risk of injury. Follow instructions for lubrication and changing accessories. Inspect tines periodically and, if damaged, have them replaced. Keep handles dry, clean, and free from grease and lubricant.
- Never use a hose, water, or any liquids to clean or rinse off the tiller. Corrosive liquids, water, fertilizers, and chemicals can enter the tiller and/or battery compartment and damage electronic components and/or the battery pack, which can result in a short circuit, increased risk of fire, and serious personal injury.
- Remove any buildup of dirt and debris on or around the tiller housing and/or underneath the tiller. Wipe the tiller clean with a dry cloth occasionally.
- Check damaged parts. Before further use of this tiller, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this manual.
- If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.
- Stop the unit and disconnect the power source when not in use. Carry the unit with the start key and battery packs removed.
- Store out of the reach of children.
- Do not hang unit so that the bail bar is depressed. Battery tools do not have to be plugged into an electrical outlet; therefore, they are always in operating

condition.

- Be aware of possible hazards when not using your battery tool or when changing accessories. Following this rule will reduce the risk of electric shock, fire, or serious personal injury.
- Do not charge battery tool in rain, or damp or wet location. Following this rule will reduce the risk of electric shock.
- Do not use battery-operated appliance in rain. Remove or disconnect battery before servicing, cleaning or removing material from the gardening appliance. Use this product only with batteries and chargers supplied.
- Do not dispose of the batteries in a fire. The cell may explode. Check with local codes for possible special disposal instructions

SERVICE

Have your power tool or charger serviced by a qualified repair person using only identical replacement parts. **This will ensure that the safety of the power tool is maintained.**

SPECIFIC GARDEN TILLER SAFETY

⚠ WARNING ! NEVER touch rotating tines

Familiarization

- Read the instructions carefully. Be familiar with the controls and the proper use of the garden tiller.
- Never allow children or people unfamiliar with these instructions to use the garden tiller. Local regulations can restrict the age of the operator.
- Never work while people, especially children, or pets are nearby.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

Preparation

- Always wear substantial footwear and long trousers while working. Do not operate the garden tiller when barefoot or wearing open sandals. Avoid wearing clothing that is loose fitting or that has hanging cords or ties.
- Thoroughly inspect the area where the garden tiller is to be used and remove all objects which can be thrown by the garden tiller.
- Before using, always visually inspect to see that the tines, tines bolts and cutting tines assembly are not worn or damaged. Replace worn or damaged tines and bolts in sets to preserve balance. Replace damaged or unreadable labels.

CAUTION! Do not touch rotating tines.

Operation

- Operate the garden tiller in daylight or in good artificial light. Always be sure of your footing on slopes.
- Walk, never run.
- Work across the face of slopes, never up and down.

- Exercise extreme caution when changing direction on slopes.
- Do not till excessively steep slopes.
- Use extreme caution when reversing or pulling the garden tiller towards you.
- Start the garden tiller or switch on the garden tiller carefully according to instructions and with feet well away from the tines.
- Do not put your hands or feet near or under rotating parts.
- Never pick up or carry a garden tiller while the motor is running.
- Never operate the garden tiller with defective guards, or without safety devices. Stop the machine and remove battery. Make sure that all moving parts have come to a complete stop:
 - Whenever you leave the garden tiller.
 - Before clearing blockages or unclogging chute.
 - Before checking, cleaning or working on the garden tiller.
 - After striking a foreign object. Inspect the machine for damage and make repairs before restarting and operating the garden tiller. If the garden tiller starts to vibrate abnormally (check immediately).
 - Inspect for damage.
 - Replace or repair any damaged parts.
 - Check for and tighten any loose parts.

MAINTENANCE AND STORAGE

Keep all nuts, bolts and screws tight to be sure the garden tiller is in safe working condition.

Be careful during adjustment of the garden tiller to prevent entrapment of fingers between moving tines and fixed parts of the garden tiller.

Allow the garden tiller to cool before storing in any enclosure.

When servicing the tines be aware that, even though the power source is switched off, the tines can still be moved.

Replace worn or damaged parts for safety. Use only genuine replacement parts and accessories.

Wear strong work gloves when removing and reassembling the tines.

Do not store batteries in a garage or shed over the winter as it will damage battery life.

BATTERY & CHARGER SAFETY

⚠ WARNING: Only use the diagnostic charger supplied with this kit to charge the 20V Li-ion battery. Charging any other batteries may damage the charger and possibly cause serious injury.

Do not store or carry the battery in a manner in which metal objects could contact the exposed metal end. Do not place the battery in aprons, pockets, drawers, etc. with loose nails, screws, keys etc. The battery could short circuit causing a fire, personal injury or damage to the battery.

Never attempt to open the battery for any reason. If the housing of the battery breaks or cracks, immediately discontinue use and do not recharge.

Do not charge the battery if it is wet or shows any evidence of corrosion.

A small leakage from the battery may occur under extreme usage, charging or temperature conditions. This does not indicate a failure. However, if the outer seal is broken and this leakage gets on your skin, follow these steps:

1. Wash immediately with soap and water.
2. Neutralize with a mild acid such as lemon juice or vinegar.
3. If liquid gets into your eyes, flush immediately with clean water for a minimum of 10 minutes and seek medical attention.

NOTE: The battery liquid is slightly acidic.

Do not incinerate the battery. It can explode in a fire.

Do not use an extension cord. Plug the charger cord directly into an electrical outlet.

Use the charger only in a standard 120V, 60 Hz electrical outlet.

Do not use the charger in wet or damp conditions. It is intended for indoor use only. Do not use the charger near sinks or tubs. Do not immerse the charger in water.

Do not allow the cord to hang over the edge of a table or counter or touch hot surfaces. The charger should be placed away from sinks and hot surfaces.

Do not use the charger to charge any batteries other than the tiller batteries. Other batteries may explode.

Do not operate charger if the cord or plug is damaged. Replace the damaged cord and plug immediately.

Do not operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way. Have a qualified technician examine the charger and repair it if necessary. Do not disassemble the charger.

Do NOT charge the batteries when the work area or the battery temperature is at or below 41°F / 5°C or above 105°F / 40.5°C.

Unplug the charger when not in use and before cleaning or maintenance.

BATTERY PACK RECYCLING

















To preserve our natural resources, please recycle or dispose of batteries properly.












The batteries charged by this charger may contain chemicals and metals that are harmful to the environment. Never dispose of rechargeable batteries in your normal household garbage or in landfill sites as they will add to the pollution of the environment.

SAFETY SYMBOLS

⚠ WARNING: Please read all of the safety and operating instructions carefully before using this tiller. Please pay particular attention to all sections of this User Guide that carry warning symbols and notices. Some of the following symbols may be used on this tool.

	Volts
	Ampere
	Hertz
	Watts
	Kilograms
	per minute
	Millimetre
 or a.c.	Alternating current
	No load speed
	Diameter
	Lock / to tighten or secure
	Unlock / to loosen
	Warning! Danger.
	Read the operator's manual

	Wear hearing protection.
	Wear CSA Approved Eye Protection.
	Wear a face mask.
	Wear protective helmet and eye protection.
	Wear protective gloves.
	Wear protective footwear.
	Do not expose the product to rain or wet conditions.
 	Keep hands and feet away from sharp rotating parts - danger of injury! When cleaning, repairing, or inspecting, make certain the cutting device and all moving parts have stopped.
	Cutting device continues to rotate after the product is switched off. Wait until all machine components have completely stopped before touching the product.

 	<p>Objects thrown by the product could hit the user or other bystanders. Always ensure that other people and pets remain at a safe distance from the product when it is in operation. In general children must not come near the area where the product is in operation.</p>		<p>Inspect the area where the product is to be used and remove all objects which can be thrown by the product. If objects are hidden while operating stop the product and remove the object.</p>
	<p>Keep extension cord away from the tines during operation! Danger of electric shock.</p>		<p>Remove plug from the power source immediately if the power cord is damaged or cut.</p>
 	<p>Disconnect from the mains plug if the cord is damaged or entangled. DO NOT TOUCH THE CORD BEFORE DISCONNECTING THE SUPPLY.</p>		<p>Protection class II (Double insulation)</p>
	<p>Recycle electrical waste products in an environmentally safe way where facilities exist.</p>	 	<p>WEEE symbol. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.</p>



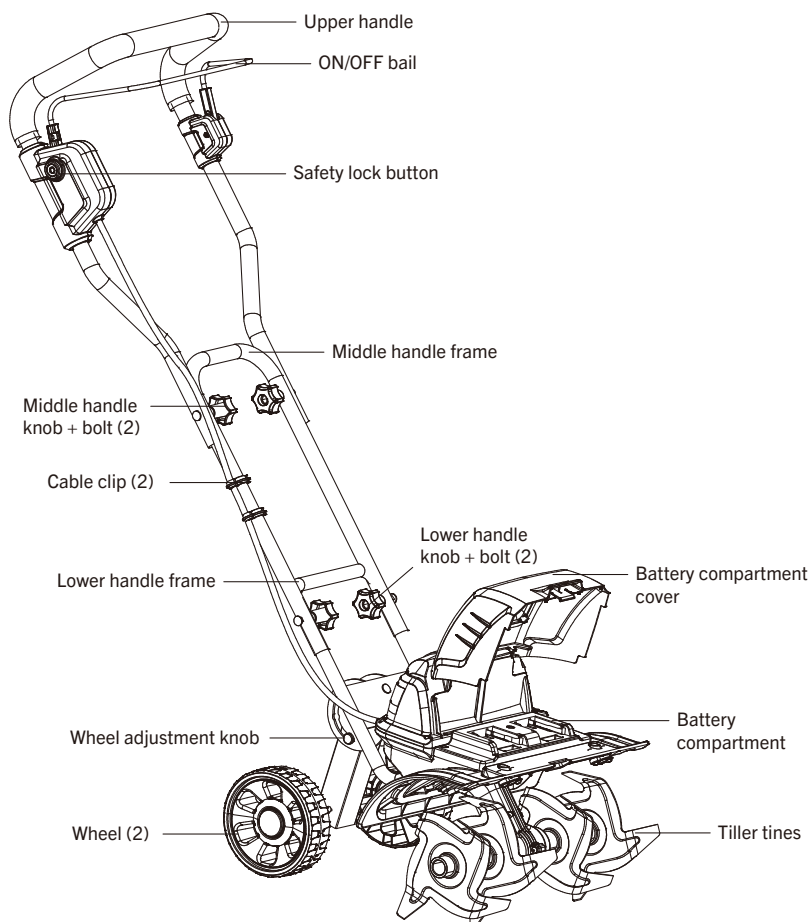
ASYRTM0118040

This symbol designates that this tool is listed with Canadian and U.S requirements by cSUDus Testing Laboratories, Inc.
 UL 82:2017-08
 CAN/CSA-C22.2 No.147-15:2015-05

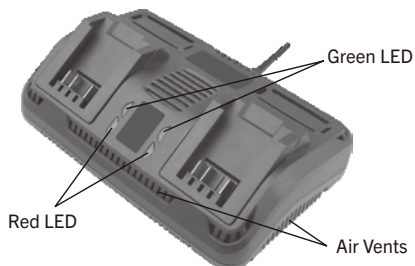
**14" 40V MAX CORDLESS
& BRUSHLESS GARDEN TILLER**

5140-014

**KNOW YOUR 14" 40v MAX CORDLESS
& BRUSHLESS GARDEN TILLER**



Dual Charger 5350-024



4Ah battery JDB5154-
Replacement
5Ah battery 5350-012



ASSEMBLY AND OPERATING

CHECKING THE BATTERY CHARGE STATUS

The level of charge remaining in the battery can be checked by using the battery LED power indicator that is contained on the end of the battery.

NOTE: The battery charge remaining may be checked while the battery is installed in the tool with the ON/OFF switch turned OFF. It may also be checked while the battery is removed from the tool. **DO NOT** check the battery charge remaining while the battery is in the charger.

You will get a false reading and you may also damage the battery status system.

1. Press and hold the battery status button located on the end of the battery
2. One or more of the four LED lights in the LED window will come ON to indicate the amount of charge that is remaining in the battery as follows:



Charge level indicator					
Amount of charge remaining	0-10%	10-25%	25-50%	50-75%	75-100%

3. Release the battery status button to turn the LEDs OFF.

CHARGING THE BATTERY PACK

1. Before using the tool, charge the battery. Place the battery charger (1) in a dry location near a 110–120V 60 Hz electrical outlet (Fig. 1).
2. Plug the battery charger into the outlet and make sure the green LED indicator light (5) comes ON. If it does not, refer to the chart (Fig. 2) to identify the problem.
3. Turn the battery (2) upside down and slide it onto the charger.

NOTE: Make sure the grooves (3) in the sides of the battery slide over the matching tabs on the charger (4) until the battery latch “clicks” into place.

NOTES:

1. When the charger is plugged into the wall receptacle and NO battery is on the charger, the green indicator light (5) will turn ON indicating the charger is “live”.
2. When a discharged battery is installed on the charger, the green indicator light will turn OFF and the red indicator light (6) will turn ON and blink. The red indicator light indicates the battery is being charged.
3. If the red indicator light does not come ON, check to make sure battery pack is slid fully onto the charger and the electrical outlet is working properly.
4. See Fig. 2 below for other indicator light functions.

5. A discharged battery pack should be fully charged in approximately 120 minutes.
6. It is normal for the battery charger to hum and be warm to the touch during operation.
7. If the battery pack does not charge properly, check to make sure the electrical outlet is "live".
8. Do NOT charge batteries when the work area or the battery temperature is at or below 5°C / 41°F or above 40.5°C / 105°F.

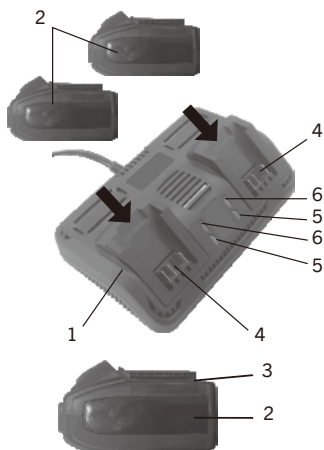


FIG. 1

GREEN LIGHT	RED LIGHT	BATTERY INSERTED INTO CHARGER	SYMBOL	CHARGING STATUS
ON	OFF	NO	NONE	CHARGER CONNECTED TO POWER SUPPLY
OFF	FLASHING	YES		BATTERY BEING CHARGED
ON	OFF	YES		BATTERY FULLY CHARGED
OFF	ON	YES		DEFECTIVE-BATTERY IS CHARGED BUT NOT OPERATIONAL ON TOOL
ON	ON	YES		CHARGING CONDITIONS ARE EITHER TOO HOT OR TOO COLD

FIG. 2

Installing the upper handle

1. Connect the upper handle frame assembly to the middle frame with two of the supplied handle knobs and bolts as shown (Fig.3).

2. Connect the upper handle frame and middle handle frame to the lower handle frame with the remaining two handle knobs and bolts as shown (Fig.4).

NOTE: Make sure that the handle knobs are placed inside the handle frame. Otherwise they will affect the wheel adjustment system.

3. Clip on the cable clips to secure the cable

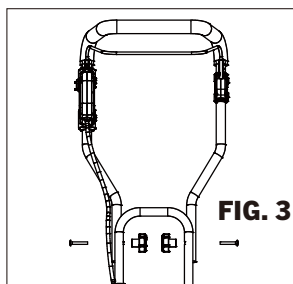


FIG. 3

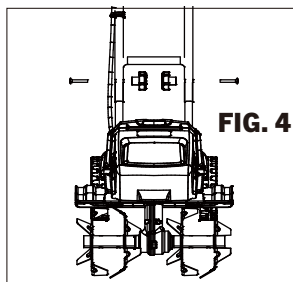


FIG. 4

Operation Intended Use

The 20V X 2 cordless tiller is designed for small gardens and flower beds, this cordless tiller effectively loosens and turns over new soil. It may also be used to mix coarse soil with fertilizer, peat, and compost. This product may not be used to till extremely dry or wet soil.

The use of this product in rain or wet conditions is not recommended.

For safety reasons, it is essential to read the entire instruction manual before first use and to observe all the instructions contained within this manual.

This product is intended for private domestic use only. It is not intended for any commercial trade use. It must not be used for any purposes other than those described.

WARNING:

Always switch the product off and remove the batteries before making any adjustments.

1. The wheels can be adjusted to 3 different positions for better cultivating results (Fig. 5).

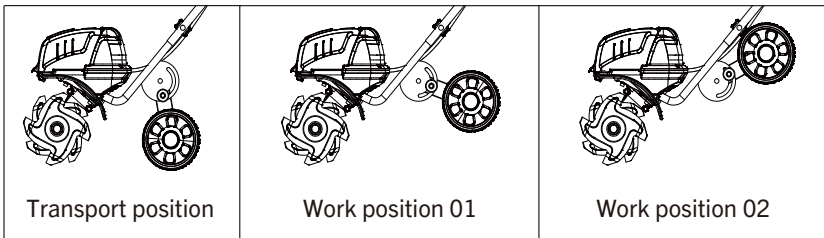


FIG. 5

2. To adjust the wheel position, push the wheel adjustment knob while moving it to the slot for desired position; let go of the knob and make sure it locks into position (Fig. 6).

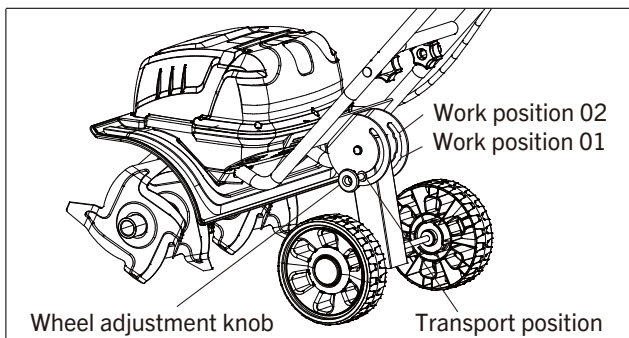


FIG. 6

Starting the Tiller

⚠ WARNING: after the tool has been switched OFF. Do not touch the rotating tines. Contact with hot tines can cause serious injury.

Rotating tines may cause serious injury. The tines will continue to turn for a few seconds.

Components (i.e. motor housing, gear box, etc.) on the machine may cause burns.

Allow the machine to cool before handling.

1. Open the battery compartment cover and slide both batteries in until they click to lock it into position, then close the battery compartment cover (Fig. 7).
2. To turn the tool ON, press and hold the safety lock button while squeezing the ON/OFF bail. Once the tool is running, release the safety lock button (Fig. 8).
3. To switch OFF, release the ON/OFF bail (Fig. 8).

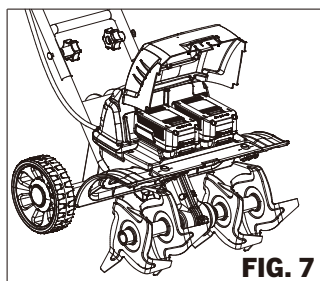


FIG. 7

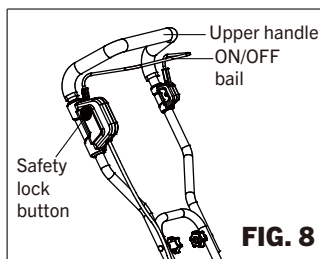


FIG. 8

Operating Tips

- Before each use, check the product, the batteries, and any other accessories for damage. Do not use the product if it is damaged or shows wear.
- Double check that the accessories and attachments are properly fitted.
- Always hold the product by its handles. Keep the handles dry to ensure a secure grip.
- Ensure that the air vents are always unobstructed and clear. Clean them if necessary with a soft brush. Blocked air vents may lead to overheating and damage the product.
- Switch the product off immediately if you are disturbed while working by other people entering the working area. Always let the product come to a complete stop before averting your attention.
- Do not overwork yourself. Take regular breaks to ensure you can concentrate on the task at hand and have full control over the product.

⚠ WARNING:

In some jurisdictions, regulations define restrictions for use of such products, including the times and days when operation is permissible. Ask your community for detailed information and observe these regulations in order to preserve a peaceful neighborhood and avoid violating any local ordinances.

Tilling

- Make sure that the work area is clear of stones, sticks, wire, or other objects that could damage the product or its motor.
- Do not till very wet soil because wet soil tends to stick to the tines, preventing proper tines rotation; it could also cause you to slip and fall.
- Always maintain a firm grip on the product. For better guidance, apply light pressure to the handles.

WARNING:

Do not place hands, feet, or any other part of the body or clothing near the rotating tines or any other moving part. The tines begin to rotate forward once the trigger bail is depressed. The tines continue to rotate until the trigger switch is released. Failure to avoid contact with the rotating tines could cause serious personal injury.

- Do not try to till too deeply or force the product into soil that is extremely hard or resistant.
- Walk the product through the soil at a normal pace and in as straight a line as possible.
- Till in slightly overlapping rows. To till most effectively, follow the pattern indicated in Fig. 9. Start by moving the tiller up and down in vertical lines, then work horizontally from left to right. This will keep the rows even and ensure that all the ground is tilled without missing any spots.
- Pay special attention when changing direction. Apply light pressure to the handle in order to lift the tines and facilitate the turn. Turn the product around using the wheels as a guide. Gradually release pressure on the handle and move the tines back to the ground.

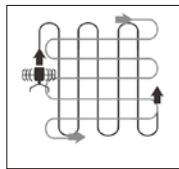


FIG. 9

WARNING:

Stop the motor if the product strikes a foreign object. Switch the product off, remove the batteries, and let it cool completely. Inspect the product thoroughly for damage and have any damage repaired before restarting.

Extensive vibration of the product during operation is an indication of damage. Immediately stop the motor and promptly inspect and repair the tool.

NOTE: This tiller has a built-in overload protection feature that automatically stops the motor if the tiller becomes entangled in a root or if something becomes jammed in the tines of tiller. This feature prevents damage to the tiller and the tines.

To get tiller working again.

1. Remove object from tilling path and restart the tiller.
2. If clearing a jam, remove battery from tiller and then while wearing protective gloves, carefully remove the jam. Re-insert battery and then restart tiller.

AFTER USE

- Switch the product off, remove the batteries, and let it cool completely.
- Check, clean, and store the product as described below.

WARNING:

Always switch the product off, remove the batteries, and let the product cool completely before inspecting, cleaning, or performing any other maintenance task.

- Keep the product clean. Remove any debris after each use and before storage.
- Regular and proper cleaning will help ensure safe use and prolong the life of the product.
- Inspect the product before each use for worn and damaged parts. If you find broken and/or worn parts, do not use the tool.

WARNING:

Only perform the repairs and maintenance work described in this manual. Any other work must be performed by a qualified technician.

General Cleaning

- Clean the product with a dry cloth. Use a brush for areas that are hard to reach.
- Be sure to clean the air vents after every use with a cloth and brush.
- Remove stubborn dirt with high pressure air (max. 44 psi).

NOTE: Do not use chemical, alkaline, abrasive, or other aggressive detergents or disinfectants to clean this product as such substances might damage the tool's surfaces.

- Check for worn or damaged parts. Replace worn parts as necessary.

WARNING:

Wear safety gloves when working on or near the tines. Use appropriate tools (e.g a wooden stick) when necessary; never use your bare hands!

- Keep the underbody and tines clean and free of debris. Use a brush or another implement to remove soil from the working tool.
- All nuts and bolts must be checked periodically for tightness before operation. After prolonged use, especially in sandy soil conditions, the working tool will become worn and lose some of its original shape. Tilling efficiency will be reduced and the working tool should be replaced.
- Have worn or damaged working parts replaced with new ones of the same type by a qualified technician.
- To prolong the life span of the working tool and the product, lubricate the tines after each use.

⚠ WARNING:

Unexpected tines movement may cause personal injury. Before servicing, repairing, or inspecting the unit, turn the motor OFF and remove the batteries. Wait for the tines to completely stop rotating before conducting inspection, cleaning, or maintenance.

Before and after each use, check the product and accessories (or attachments) for wear and damage. When necessary, only use identical replacement parts that are approved by the manufacturer.

⚠ WARNING:

Contact with hot components (e.g. motor housing, gear box, etc.) on the machine may cause burns. Allow the machine to cool off before handling.

IMPORTANT!

- Wear protective gloves when cleaning or maintaining the machine.
- Do not use cleaning fluids or solvents or spray the machine down with water (especially water under pressure) when cleaning the machine.

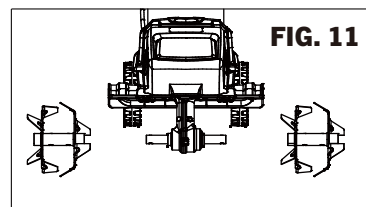
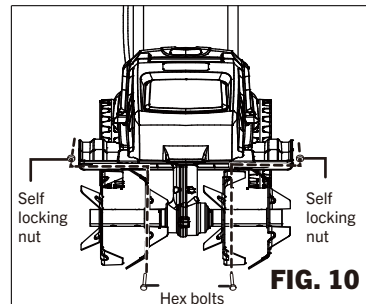
NOTE: After each use, follow these steps to properly clean the unit:

1. Remove soil, dirt, and foliage stuck in the tines, drive shaft, tool surface, and vents with a brush or dry cloth.
2. Spray or rub biodegradable oil onto the tines.
3. Clean soiled grips with a damp cloth. Always inspect the machine for damaged and worn parts after each use. Check that safety features (i.e. labels, guards, etc.) are in place. Check that nuts, bolts, and screws are tight.

Changing the tines

NOTE: The machine is fitted with four tilling tines that can easily be changed in pairs. Both of the steel tines pairs can be fitted on the left or right, as required. Always change both tines pairs at the same time to avoid imbalance and damage to the machine. To replace the tines, follow the steps below:

1. While standing on a flat and stable surface, switch off the unit and remove the batteries.
2. Remove the hex bolts and the self-locking nuts, then remove the steel tines (Fig. 10).
3. Clean the drive shaft with biodegradable oil (Fig. 11).
4. Place the new tines onto the drive shaft so that the holes on the axles line up with the holes on the drive shaft (Fig. 11).



5. Insert the hex bolts through the holes and secure them with the self-locking nuts (Fig. 10).

IMPORTANT: The tines must be set in the correct turning direction. Note the way the old tines came off and replace the new ones exactly the same way.

TRANSPORTATION

- Switch the product off. Ensure that the wheels are set to the transport position (see Fig. 5).
- Always carry the product by its transport handles.
- If you are transporting the tiller in a vehicle, brace it properly to protect it from heavy impact or strong vibrations.
- Secure the product to prevent it from falling over or slipping.

Repair

This product does not contain any parts that can be repaired by the consumer.

Storage

- Examine the cordless tiller thoroughly for worn, loose, or damaged parts.
- Remove the batteries from the cordless tiller before storing.
- Clean the product as described above.
- Store the product and its accessories in a dark, dry, frost-free, and well-ventilated place.
- Always store the product in a place that is inaccessible to children.
- The ideal storage temperature is between 50°F (10°C) and 86°F (30°C).
- We recommend using the original package for storage or covering the product with a suitable cover or enclosure to protect it against dust.

MAINTENANCE

GENERAL

⚠ WARNING: When servicing, use only identical replacement parts. The use of any other part may create a hazard or cause product damage.

DO NOT use solvents when cleaning plastic parts. Plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use a clean cloth to remove dirt, dust, oil, grease etc.

⚠ WARNING: Do not allow brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come into contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.

DO NOT abuse power tools. Abusive practices can damage the tool and the workpiece.

⚠ WARNING: DO NOT attempt to modify tools or create accessories. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury. It will also void the warranty.

LUBRICATION

All of the bearings in this tool are lubricated with a sufficient amount of high-grade lubricant for the life of the unit under normal conditions. Therefore, no further lubrication is required.

BATTERY PACK REMOVAL AND PREPARATION FOR RECYCLING

To preserve our natural resources, please recycle or dispose of batteries properly.

The batteries accompanying this tool may contain chemicals and metals that are harmful to the environment. Never dispose of rechargeable batteries in your normal household garbage or in landfill sites, because they will of the environment.

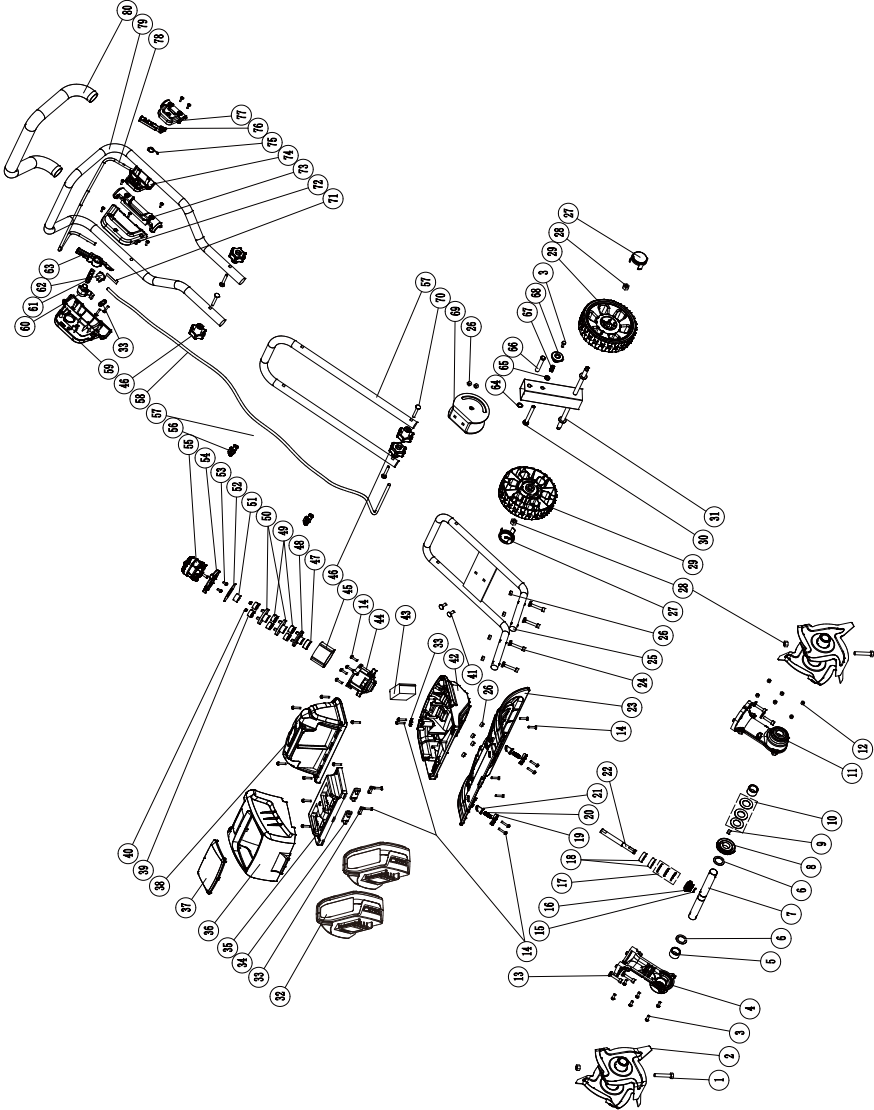
Consult your local waste authority for information regarding available recycling and disposal options.

⚠ WARNING: Upon removal of the battery pack, cover the terminals of the battery pack with electrical tape or heavy-duty adhesive tape. Never touch both terminals with metal objects or parts, because a short circuit may result. Keep away from children. Do not attempt to destroy or disassemble battery pack or remove any of its components. Rechargeable batteries must be recycled or disposed of properly. Failure to comply with these warnings could result in fire and serious injury.

**14" 40V MAX CORDLESS
& BRUSHLESS GARDEN TILLER**

5140-014

EXPLODED VIEW



PARTS LIST

⚠ WARNING: When servicing, use only original equipment replacement parts. The use of any other parts may create a safety hazard or cause damage to the tiller.

Any attempt to repair or replace electrical parts on this Tiller may create a safety hazard unless repairs are performed by a qualified technician. For more information, call the Toll-free Helpline, at 1-866-349-8665 Monday - Friday from 9am to 5pm Eastern Standard Time.

Always order by key number.

Key #	Part #	Part Name	Quantity
1	1	Outer hexagon bolt M8X40	2
2	2	Tines assembly	2
3	3	Screw M5 x 16	7
4	4	Bevel gearbox from right	1
5	5	Axle sleeve	2
6	6	Shaft ring ϕ 20	2
7	7	Output shaft	1
8	8	Big Bevel gear	1
9	9	Round head common flat key (A)	1
10	10	Plane bearing AXK2035	1
11	11	Bevel gearbox left	1
12	12	Locknut M5	6
13	13	Flat pad ϕ 6	8
14	14	Screw ST4 x 16	25
15	15	ϕ 6 Circlip	1
16	16	Small Bevel gear	1
17	17	Plane bearing AXK1024	1
18	18	Bearing 6000	2
19	19	Convex button cover	2
20	20	Spring	2
21	21	Convex button	2
22	22	Transmission shaft	1
23	23	Chassis	1
24	24	Screw M6 x 30	8
25	25	Lower tube	1
26	26	Locknut M6	10
27	27	Small wheel cover	2
28	28	Locknut M8	2

**14" 40V MAX CORDLESS
& BRUSHLESS GARDEN TILLER**

5140-014

Key #	Part #	Part Name	Quantity
29	29	Front wheel hub	2
30	30	Rotation limit axis	1
31	31	Wheel bracket	1
32	1290090042	Battery	2
33	33	Cable clamp plate	4
34	34	Insert holder	2
35	35	Battery holder	1
36	36	Double battery cover	1
37	37	Transparent cover	1
38	38	Battery compartment	1
39	39	First stage planetary gear	1
40	40	Needle bearing K598	4
41	41	Half round head square neck bolt M6 x 16	2
42	42	Base	1
43	43	Brushless controller	1
44	44	Planetary gearbox	1
45	45	Inner gear ring	1
46	46	Knob	4
47	47	Planet carrier locating sleeve	1
48	48	Output planet carrier	1
49	49	Planetary gear	12
50	50	Planet carrier	2
51	51	Motor gear	1
52	52	Isolation film	1
53	53	Screw M4 x 8	2
54	54	Motor seat	1
55	55	Motor	1
56	56	Press button	2
57	57	Middle tube	1
58	58	Switch connecting wire	1
59	59	Switch box right	1
60	60	Switch button	1
61	61	Auxiliary handle spring	1
62	62	Switch	1
63	63	Switch trigger	1
64	64	Shaft ring ϕ 10	1
65	65	Flat pad ϕ 8	1

Key #	Part #	Part Name	Quantity
66	66	Rotating central axis	1
67	67	Spring	1
68	68	Angle adjustment button	1
69	69	Rotating fixed seat	1
70	70	Half round head square neck bolt M6 x 50	4
71	71	Shrapnel	1
72	72	Switch box left	1
73	73	Switch box press plate	1
74	74	Switch auxiliary bracket right	1
75	75	Reset torsion spring	1
76	76	Switch auxiliary trigger	1
77	77	Switch auxiliary bracket left	1
78	78	Starting pull rod	1
79	79	Upper tube	1
80	80	Sponge grip (600mm)	1

WARRANTY

BENCHMARK 14" 40V MAX CORDLESS & BRUSHLESS GARDEN TILLER

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. 3 years for the battery and the charger. This warranty does not include expendable parts including but not limited to tines, brushes, belts, light bulbs.

This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Benchmark product is used for commercial or rental purposes, this warranty does not apply.

14" 40V MAX CORDLESS & BRUSHLESS GARDEN TILLER



Includes 2 batteries & 1 charger
5 Year Limited Warranty on tool
3 Year Limited Warranty on battery and charger

BENCHMARKTM_{MC}

BENCHMARK TOOLS CANADA
ST. JACOBS, ONTARIO N0B 2N0
© 2023 Home Hardware Stores Limited

CUSTOMER SERVICE/TECH SUPPORT
1-866-349-8665

5140-014

Made in China



*This BenchmarkTM product carries a five (5) year LIMITED warranty against defects in workmanship and materials. The charger and batteries carry a three (3) year LIMITED warranty. See Owner's Manual for full details.



READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.

Uses two 20V Max lithium-ion batteries that deliver an initial battery voltage (measured without a workload) of 40 volts. Nominal voltage is 36V.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**