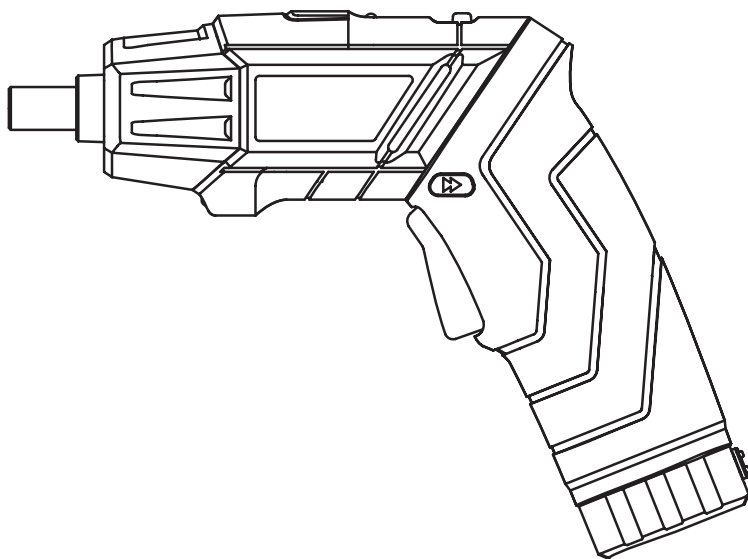


model no. 054-2516-4

Mastercraft[®] MD

2-IN-1

CORDLESS PIVOTING SCREWDRIVER/FLASHLIGHT KIT



IMPORTANT:

Please read this manual carefully before running this cordless screwdriver and save it for reference.

INSTRUCTION MANUAL

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NOTE:

If any parts are missing or damaged, or if you have any questions, please call our toll-free helpline at 1-800-689-9928.

**SAVE THESE INSTRUCTIONS**

This manual contains important safety and operating instructions. Read all instructions and follow them with use of this product.

TECHNICAL SPECIFICATIONS

Charger input voltage	100 - 240 V 50/60 Hz AC
Rated input current	0.2 A
Charger output voltage	8 V DC
Output current	0.25 A 2 W MAX
Battery	4 V max* (1.3 Ah) lithium-ion
No-load speed	180 RPM
Max torque	2.6 ft-lb (3.5 Nm)
Hex chuck	1/4" (6.4 mm)
AC charging adaptor	3–5 hours
Machine weight	13 oz (0.38 kg)

* Maximum battery voltage without workload; with workload nominal voltage is 3.6V.

WORK AREA SAFETY

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

ELECTRICAL SAFETY

- **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.
- **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.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **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.
- **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.
- **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.



WARNING!

Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.



WARNING!

This product may contain lead, phthalates or other chemicals known to cause cancer, birth defects and other reproductive harm. Please wash your hands after use.



WARNING!

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term power tool in the warnings refers to your electric (corded) power tool or battery-operated (cordless) power tool.

PERSONAL SAFETY

- **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.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **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.
- **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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- **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.

POWER TOOL USE AND CARE

- **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.
- **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.
- **Disconnect the plug from the power source and/or the battery pack 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.
- **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.
- **Maintain power tools. 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.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories and tool bits in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** Use of the power tool for operations other than those intended could be hazardous.

BATTERY TOOL USE AND CARE

- **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.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.

- **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.
- **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.

SERVICE

- **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.

SAFETY WARNINGS FOR SCREWING INTO WALLS

- **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 exposed metal parts of the power tool “live” and could give the operator an electric shock.
- **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body leaves it unstable and may lead to loss of control.

GENERAL SAFETY WARNINGS FOR BATTERY PACK

- **WARNING:** Risk of fire and burns. Do not disassemble, heat above 100°C (212°F), or incinerate. Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight.
- Dispose of used battery promptly. When disposing of secondary cells or batteries, keep cells or batteries of different electrochemical systems separate from each other.
- Keep battery out of reach of children and in original package until ready to use.
- Never put batteries in mouth. If swallowed, contact your physician or local poison control centre.
- **CAUTION** – The battery used in this device may present a risk of fire or chemical burn if mistreated.
- **WARNING:** Do not use a visibly damaged battery pack or appliance as applicable.
- **WARNING:** Do not modify or attempt to repair the appliance or the battery pack as applicable.
- **BATTERY MUST BE RECYCLED.**
- Do not short-circuit a cell or battery. Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by conductive materials.
- Do not subject cells or batteries to mechanical shock.
- Keep cells and batteries clean and dry. Wipe the cell or battery terminals with a clean dry cloth if they become dirty.
- Do not maintain secondary cells and batteries on charge when not in use.
- Retain the original cell and battery literature for future reference.
- Do not use any charger other than that specifically provided for use with the equipment. Always use the correct charger and refer to the manufacturer's instructions or equipment manual for proper charging instructions.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to battery pack, picking up, or carrying the appliance. Carrying the appliance with your finger on the switch or energizing an appliance that has the switch on invites accidents.

SYMBOLS



To reduce the risk of injury, user must read instruction manual



WARNING



Wear ear protection



Wear eye protection



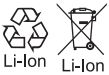
Wear dust mask



Do not expose to rain or water



Do not burn



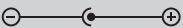
Li-ion battery. Separate collection, and battery must be recycled



For indoor use only



Read the operator's manual

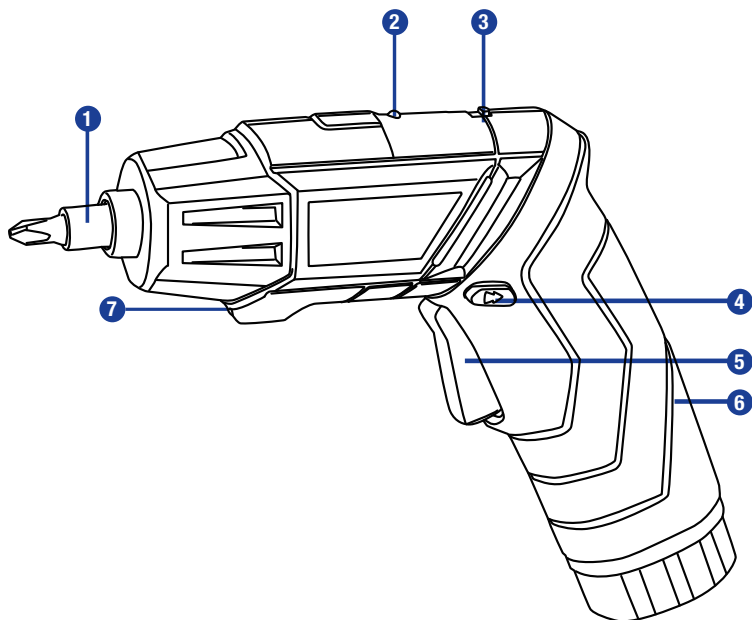


The output plug is with positive centre pole and negative outer pole

KEY PARTS DIAGRAM

No.	Description
1	Hex chuck
2	Charging indicator
3	Adjust handle lock switch
4	Forward/reverse rotation switch

No.	Description
5	On/off switch
6	Soft handle
7	Sight light



ACCESSORIES

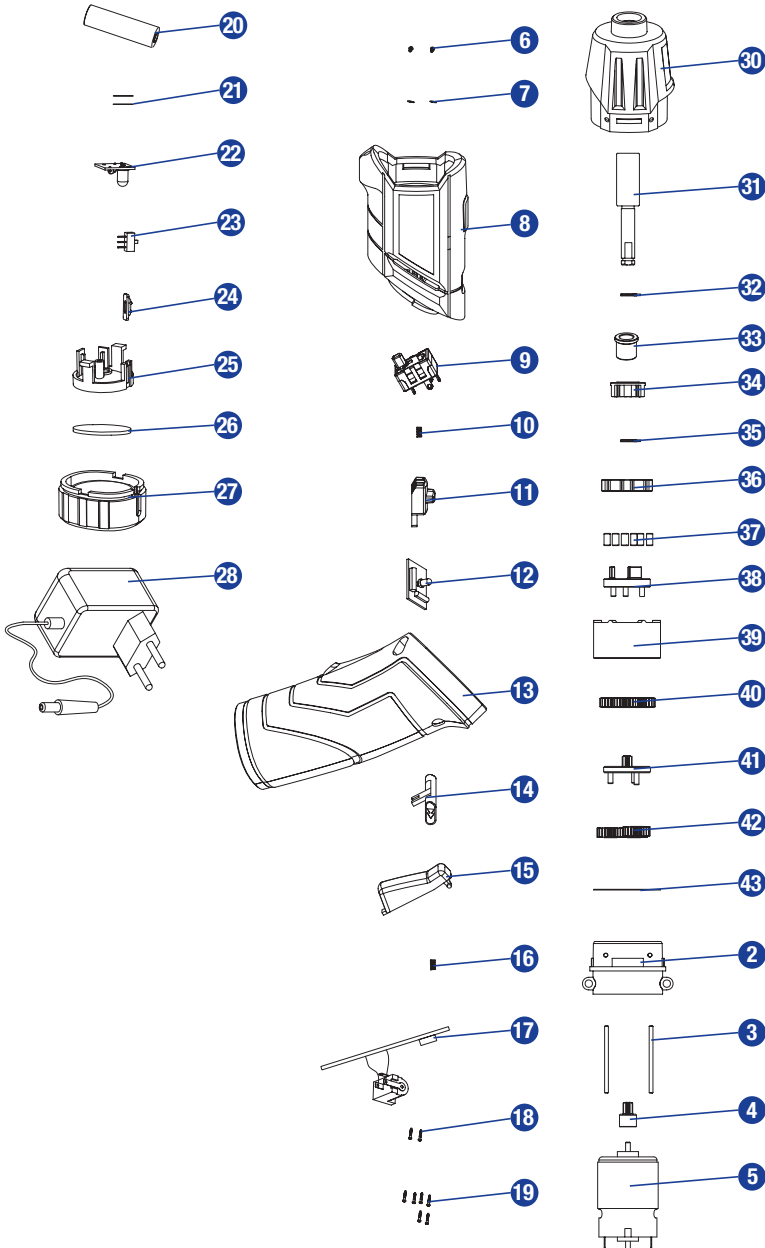
CRV slot bits,	3
CRV cross-head bits	4
Square recessed bits	2
CRV hex bits	6
CRV torx bits	5
60 mm CRV magnetic bit holder	1
Charger	1

We recommend that you purchase your accessories from the same store that sold you the tool. Use good-quality accessories marked with a well-known brand name. Choose the type according to the work you intend to undertake. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

PARTS LIST

No.	Description	Qty.
2	Motor connector	1
3	Pin	2
4	Motor gear	1
5	Motor	1
6	Screw	2
7	Washer	2
8	Front housing	2
9	Switch	1
10	Spring	1
11	Button	1
12	Led light	1
13	Rear housing	1
14	Forward and reverse switch	1
15	Trigger	1
16	Spring	1
17	Pcb	1
18	Screw	2
19	Screw	6
20	Cell	1
21	Ni piece	1
22	Led light	1
23	LED switch	1

No.	Description	Qty.
24	Trigger	1
25	Glisten bowl	1
26	Broad	1
27	Lampshade	1
28	3-5 hr charger	1
30	Gear box	1
31	Spindle	1
32	Washer	2
33	Bearing	1
34	Rotary plate	1
35	Retaining ring	1
36	Fixing ring	1
37	Pin	6
38	Planet frame	1
39	Inner gear	1
40	Planet gear	3
41	Planet frame	1
42	Planet gear	3
43	Washer	1



INTENDED USE

The power tool is intended for driving in and loosening screws.

CHARGING THE BATTERY

The battery charger supplied is matched to the Li-ion battery installed in the machine. Do not use another battery charger.

The Li-ion battery is protected against deep discharging. When the battery is empty, the screwdriver will turn off. In a warm environment or after heavy use, the battery pack may become too hot to permit charging. Allow time for the battery to cool down before recharging.

IMPORTANT NOTES FOR CHARGING THE BATTERY

The battery in your new screwdriver is not charged when it leaves the plant. Therefore it must be charged before using for the first time.

NOTE: If the battery pack is hot, allow it to cool to ambient temperature before connecting to the charger.

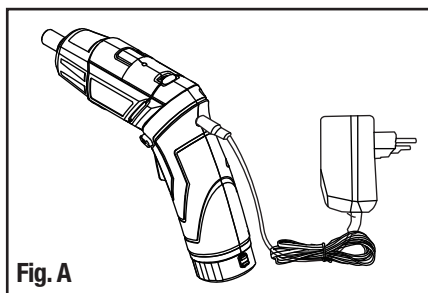
To prevent damage to the battery pack, charge the battery to at least a half-charge before storing.

If the tool will not be used for long periods of time, charge the battery every 3-6 months.

CHARGING (See Fig. A)

To charge your screwdriver, follow the steps below. Plug charger plug into a suitable mains socket and plug the output cord of the charger into the socket of the screwdriver. The charging indicator (2) will illuminate at this time.

After charging 3 to 5 hours, the battery will be fully charged. When fully charged, the red light will switch off. Unplug the charger plug from the wall socket and the screwdriver is ready to use.



NOTE: Before using the tool, read the instruction book carefully.



WARNING!

To reduce the risk of injury, do not let the sharp side of the accessory face back toward the user's hand.

OPERATION INSTRUCTIONS

Inspect the screwdriver before using to ensure all parts are running smoothly and there are no abnormal sounds or sparks. Before driving fasteners, check behind walls for wires, other electrical hazards or plumbing. Clear the work area of all parts and debris that may cause injury by flying objects. Securely fix the object to be fastened in a vice or otherwise clamp to avoid injury. Do not attempt to hold workpiece by hand.

FITTING AND REMOVING BITS (See Fig. B)

To use any one of the short bits, insert the bit into the bit holder and push the holder into the chuck as far as possible. To remove the bit, simply pull it out of the bit holder.

NOTE: Always use a bit holder when fitting the short bits.

FORWARD/REVERSE SWITCH (See Fig. C)

The screwdriver has forward/reverse function, press the forward/reverse rotation switch (4) from the left for reverse, and press the forward/reverse rotation switch from the right for forward.

Warning: Never change the direction of rotation when the chuck is rotating. Wait until it has stopped.

ADJUSTABLE HANDLE (See Fig. D, E)

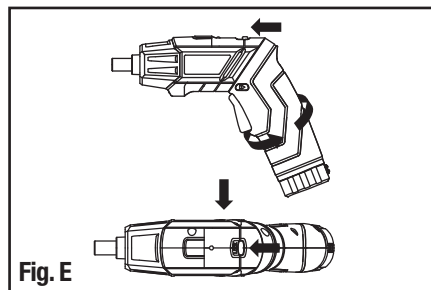
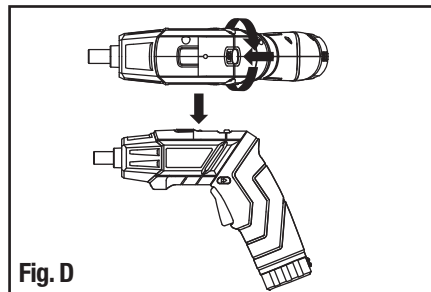
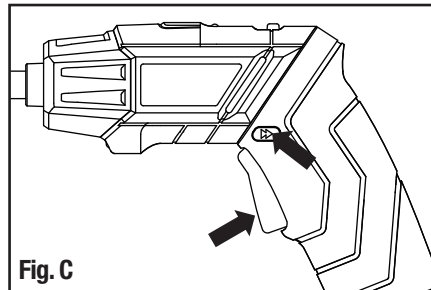
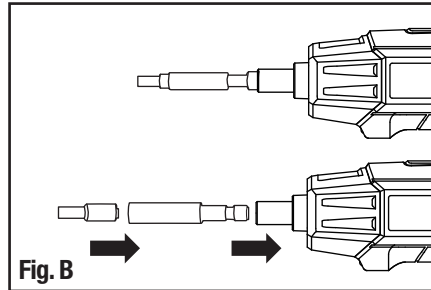
This machine can use as straight grip or pistol grip. Push adjust handle lock switch (3) forward and hold to adjust the handle to the desired position. Release the switch and adjust handle lock switch will recover itself, and then you can use the machine.

SWITCH LOCK

The on/off switch trigger can be locked in off position. This helps to reduce the possibility of accidental starting when not in use. To lock the switch, place the forward and reverse rotation selector in the centre position by pushing it on either side of the body.

USING THE SIGHT LIGHT

The sight light allows you to keep a clear view under less-illuminated circumstances. To turn on the light simply press the on/off switch. When you release the on/off switch, the light will be turn off.

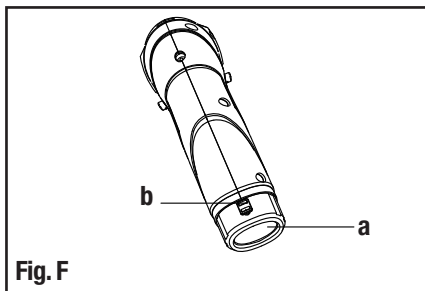


ON/OFF SWITCH OF THE FLASHLIGHT (See**Fig. F)**

There is a flashlight in the end of the machine. The flashligh produces a light beam that emerges from the lamp head (a).

To start the flashlight, push the switch (b) to “on” position.

To turn off, push the switch (b) to “off” position.

**DISPOSAL OF AN EXHAUSTED BATTERY****PACK**

Li

To preserve natural resources, please recycle or dispose of the battery pack properly. This battery pack contains lithium batteries. Consult your local waste authority for information regarding available recycling and/or disposal options. Discharge your battery pack by operating your machine, then remove the battery pack from the machine housing and cover the battery pack connections with heavy-duty adhesive tape to prevent short circuit and energy discharge. Do not attempt to open or remove any of the components.

PROTECTION AGAINST DEEP DISCHARGING

The Li-ion battery is protected against deep discharging by the “Discharging Protection System”. When the battery is empty, the machine is switched off by means of a protective circuit: the inserted tool no longer rotates.

MAINTAIN TOOLS WITH CARE

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.

Your power tool requires no additional lubrication or maintenance. There are no user-serviceable parts in your power tool. Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth. Always store your power tool in a dry place. Keep the motor ventilation slots clean. Keep all working controls free of dust. Periodically clear dust and chips from guard and base to ensure proper performance.

Occasionally you may see sparks through the ventilation slots. This is normal and will not damage your power tool. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly-qualified persons in order to avoid a hazard.

This Mastercraft product is guaranteed for a period of 3 years from the date of original retail purchase against defects in workmanship and materials, except for the following components:

- a) Component A: Batteries, chargers and carrying case, which are guaranteed for a period of 2 years from the date of original retail purchase against defects in workmanship and materials;
- b) Component B: Accessories, which are guaranteed for a period of 1-year from the date of original retail purchase against defects in workmanship and materials.

Subject to the conditions and limitations described below, this product, if returned to us with proof of purchase within the stated warranty period and if covered under this warranty, will be repaired or replaced (with the same model, or one of equal value or specification), at our option. We will bear the cost of any repair or replacement and any costs of labour relating thereto.



These warranties are subject to the following conditions and limitations:

- a) a bill of sale verifying the purchase and purchase date must be provided;
- b) this warranty will not apply to any product or part thereof which is worn or broken or which has become inoperative due to abuse, misuse, accidental damage, neglect or lack of proper installation, operation or maintenance (as outlined in the applicable owner's manual or operating instructions) or which is being used for industrial, professional, commercial or rental purposes;
- c) this warranty will not apply to normal wear and tear or to expendable parts or accessories that may be supplied with the product that are expected to become inoperative or unusable after a seasonable period of use;
- d) this warranty will not apply to routine maintenance and consumable items such as, but not limited to, fuel, lubricants, vacuum bags, blades, belts, sandpaper, bits, fluids, tune-ups or adjustments;
- e) this warranty will not apply where damage is caused by repairs made or attempted by others (i.e. persons not authorized by the manufacturer);
- f) this warranty will not apply to any product that was sold to the original purchaser as a reconditioned or refurbished product (unless otherwise specified in writing);
- g) this warranty will not apply to any product or part thereof if any part from another manufacturer is installed therein or any repairs or alterations have been made or attempted by unauthorized persons;
- h) this warranty will not apply to normal deterioration of the exterior finish, such as, but not limited to, scratches, dents, paint chips, or to any corrosion or discolouring by heat, abrasive and chemical cleaners; and
- i) this warranty will not apply to component parts sold by and identified as the product of another company, which shall be covered under the product manufacturer's warranty, if any.

Additional Limitations

This warranty applies only to the original purchaser and may not be transferred. Neither the retailer nor the manufacturer shall be liable for any other expense, loss or damage, including, without limitation, any indirect, incidental, consequential or exemplary damages arising in connection with the sale, use or inability to use this product.

Notice to Consumer

This warranty gives you specific legal rights, and you may have other rights, which may vary from province to province. The provisions contained in this warranty are not intended to limit, modify, take away from, disclaim or exclude any statutory warranties set forth in any applicable provincial or federal legislation.

Made in china

Imported by Mastercraft Canada Toronto, Canada M4S 2B8

