#### **PRODUCT SPECIFICATIONS**

8V MAX CORDLESS ROTARY TOOL KIT	
RPM	5-Speed (5,000. 10,000, 15,000, 20,000 and 25,000) RPM no load
Collet	1/8" (3.2 mm) & 3/32" (2.4 mm)
Battery	8 V, 2.5Ah Lithium-Ion
Battery Charger	Up to 90 minutes, Class 2
Charger Input	120 V AC, 60 Hz
Charger Output	9.1 V DC, 1.0 A (maximum)
Weight	2lbs. (0.9 kg)

#### 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

#### **GENERAL SAFETY INSTRUCTIONS**

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.

#### **EYE. EAR & LUNG PROTECTION**

#### SYMBOL MEANING

ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA Z94.3 or ANSI SAFETY STANDARD Z87.1 FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection. The usage of a safety standard compliant face shield placed over proper safety glasses or goggles can reduce the risk of facial injury.

Non-compliant evewear can cause serious injury if broken during the operation of a power tool.

A WARNING

A DANGER

P

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 POWER TOOL IN A DUSTY ENVIRONMENT.

- 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.

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.

#### 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 a ground fault circuit interrupter (GFCI) reduces the risk of electric shock

#### 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.

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.

#### **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.

Remove 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.

#### **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.

#### SPECIFIC SAFETY RULES

#### Safety Warnings Common for Grinding, Sanding, Wire Brushing or Polishing Operations

This power tool is intended to function as a grinder, sander, wire brush or polisher. Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

WARNING: This tool is NOT a toy. Do not allow young children to operate the tool, as misuse can result in serious injury.

/! WARNING: Know your rotary tool. Do read and understand this Instruction Manual. Learn the tool's applications and limitations, as well as the specific potential hazards related to of electric shock, fire, or serious injury



(not glasses) that comply with ANSI safety standard Z87.1. Everyday glasses have only impact resistant lenses. They ARE NOT safety glasses.

#### WARNING: Glasses or goggles not in compliance with ANSI Z87.1 could cause serious injury when they break.

Always wear safety goggles, hearing protection and a dust mask. Use only in wellventilated areas. Using personal safety devices and working in a safe environment reduces the risk of injury.

Always make sure the work surface is free of nails and other foreign objects. Cutting into a nail can cause the blade and the tool to jump and damage the blade.

Never hold the workpiece in one hand and the tool in the other hand when grinding.

#### /!\DANGER: Do not operate the power tool near flammable materials; sparks could ignite these materials.

ANGER: Always remove the battery when changing accessories. Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.

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

Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.

#### **BATTERY & CHARGER SAFETY**

**WARNING:** If the lithium-ion battery no longer charges properly or is damaged, the battery must not be discarded as household trash, burnt or thrown into water. The battery must be disposed of as hazardous waste in accordance with all

municipal requirements. Do not incinerate a discarded battery. It can explode in a fire. Charge the battery only with the 8V Li-ion charger supplied for this 8V Li-ion rotary tool. Batteries other than the 8V Li-ion battery supplied for this 8V Li-ion rotary tool. Other batteries may explode.

Do not use the charger in wet or damp conditions. It is intended for indoor use only. 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 operate the 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 impact, 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.

For best results, charge the battery when the temperature of the battery and the work area is at or above 0° C (32° F) and below 45° C (113° F).

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

#### CHARGING THE BATTERY

#### / WARNING: Use only the specified 8V Li-ion charger and 8V Li-ion battery with this tool. Using any other charger or battery may damage the charger or the

battery, and possibly cause serious injury.

- 1. To charge the battery, place the charger (1) in a dry location near a 120 V AC, 60 Hz electrical outlet (Fig. 1).
- 2. Plug the battery charger into the 120 V AC. 60 Hz wall receptacle. The green LED (4) will turn ON.
- 3. Place the battery stem (2) into the matching cavity (3) in the top of the charging base. NOTES:
- a) Make sure the battery is pressed fully onto the charging base as far as it will go.
- b) Do NOT charge batteries when the work area or the battery temperature is at or below 0°C (32° F) or above 45°C (113° F).

When the battery charger is plugged into a "live" receptacle, the battery charger will begin charging the battery. The red LED (5) will turn ON indicating the battery is being charged.

When the battery is fully charged, the red LED will turn OFF and the green LED will turn ON. NOTE: A completely discharged battery will take approximately up to 90 minutes to become fully charged.

Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged

Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation. Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control

#### **INSTALLING A BATTERY IN THE TOOL**

- 1. Remove the discharged battery (1) from the tool (2) by pressing on the battery release buttons (3) on the sides of the battery (Fig. 2).
- 2. Slide the fully charged battery into the matching cavity in the tool handle where the
- 3. Insert the fully charged battery into the tool "click" into place when the battery is fully

**NOTE:** The battery can only be inserted into the handle one way. If it will not slide into the handle, rotate the battery 180°.

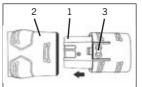
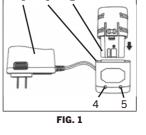


FIG. 2



Always wear eye protection. Any power tool can throw foreign objects into your eyes and cause permanent eye damage. ALWAYS wear safety goggles

accessories will normally break apart during this test time.

WARNING: Do not immerse the battery pack in water. Sudden cooling could cause the hot battery to explode or leak

#### LED WORK LIGHT

The three LED worklights (1) will automatically turn ON when the tool is started. They will turn OFF when the switch is turned OFF (Fig. 3).

#### **ON/OFF SWITCH**

To turn the tool ON, press the ON/OFF switch (1) once (Fig. 4). To turn the tool OFF, press the ON/ OFF switch again.

NOTE: When the tool is turned ON, the tool will start at medium speed (approx. 15, 000 RPM).

#### SPEEDCONTROL BUTTONS

To change the tool speed, press the "+" button (2) to increase the speed (Fig. 5). Press the "-" button (3) to reduce the tool speed. NOTE: The numbers beside the speed indicator LED's (4) indicate the tool speed in thousands of RPM (IE: 15 = 15,000 RPM).

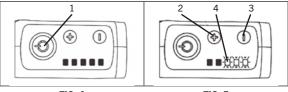


FIG. 4



#### INSTALLING ACCESSORIES

1. Turn the switch OFF.

- 2. Depress the spindle lock button (1) and slowly turn the collet nut (2) until the (Fig.
- 3. While holding the spindle lock button down, turn the collet nut counter clockwise until the collet is loose inside the collet nut

4. Insert the accessory shank (3) into the collet.

NOTES: a) Make sure the correct collet is used for the accessory. If the collet is too large, replace the collet with the next smaller size. b) Insert the accessory shank at least 3/4" into the collet.

5. Press the spindle lock button and engage it in the spindle. While holding the spindle lock button down, hand-tighten the collet by turning it clockwise

NOTE: Do not use pliers to tighten the collet nut. Use the wrench (4) provided. Over tightening will cause damage to the tool.

6. Pull on the accessory to ensure it is securely held in place by the collet.

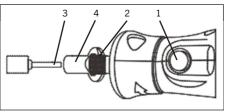


FIG. 6

#### **SELECTING PROPER SPEEDS**

Different speeds are required depending upon the type of operation being performed. The following chart outlines those basic speeds:

OPERATION	SPEED	OPERATION	SPEED
Cutting Metal	Medium / High	Drilling Holes	Medium
Sanding Wood	Medium / High	Removing Rust	Slow / Medium
Cutting Hard Metal	Medium / High	Sharpening	Slow / Medium
Engraving Metal	Medium	Polishing	Slow
De-Burring	Medium		

/!\WARNING: For safety reasons, the operator must read the sections of this Owner's Manual entitled "GENERAL SAFETY WARNINGS", "POWER **TOOL SAFETY". "SPECIFIC SAFETY RULES". "EXTENSION CORD** SAFETY" and "SYMBOLS" before using this circular saw.

Verify the following every time the circular saw is used:

1. The blade is tight and sharp.

2. All adjustments are tight.

**NOTE:** See the reverse side of this page for: Maintenance. Accessories included. Parts explosion drawing, Parts listing & Warranty.

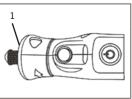


FIG. 3

3. The workpiece is properly secured.

4. Safety glasses and hearing protection are being worn.

Failure to adhere to these safety rules can greatly increase the chances of serious injury.

#### MAINTENANCE

**GENERAL** 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.

**WARNING:** When cleaning the tool with compressed air, always wear safety goggles. Flying debris can cause serious eye damage.

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.

#### LITHIUM-ION BATTERY MAINTENANCE

Lithium-ion batteries do not have a "memory" and do not require to be completely discharged periodically. It is recommended that you charge your Lithium-ion batteries after each use so they will be fully charged when needed.

NOTE:A fully charged battery will lose about 2% of its charge per month during storage.

#### BATTERY PACK REMOVAL AND PREPARATION FOR RECYCLING

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

The batteries supplied with 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 add to the pollution 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 body 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.

#### **ACCESSORIES INCLUDED**

ILLUSTRATION	DESCRIPTION	SIZE/SHAPE	QTY
	Brass Brush	1/4" Axial	1
	Brass Brush	7/8" AXIAL	1
	Bristle Brush	7/8" Radial	1
	Bristle Brush	1/4" Axial	1
	Felt Polishing Wheel	1/2"	3
$\odot$	Felt Polishing Wheel	1"	3
	Felt Polishing Tip	3/8"	3
207	Mandrel for Felt Wheel	1/8"	1
0	Sanding Band	1/2"	18
$= \square$	Drum Sander with 1/8" Shank	1/2" Diameter	1
	Diamond Ball	5/64" Ball	1
Den	Diamond Bit Cylinder	Cylinder	1
T22	Diamond Taper	5/64" Taper	1
	Multi-Purpose Bit	1/8" Cylinder	3
ILLUSTRATION	DESCRIPTION	SIZE/SHAPE	QTY
	Collet	1/8"	1
	Collet	3/32"	1

	Collet	1/16"	1
	Screw Mandrel	1/8"	1
	Screw Mandrel	3/32"	1
$\overline{}$	Heavy Duty Cut-Off Wheel	15/16" x 0.031 Thick	23
~~ <u> </u>	Collet Wrench		1
	Dressing Stone	3/8" x 3/8" x 1"	1
$(\cdot)$	Sanding Disc	3/4" Circular	31
	Various Grinding Stones	Assorted	10
	Collet nut		1

**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 tool.

Any attempt to repair or replace electrical parts on this tool 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.

#### PARTS LIST

Always order by PART NUMBER, not by key number.

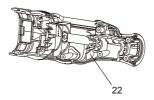
KEY #	PART #	PART NAME	QTY
1	3160060093	LED Light Cover	1
2	1130040074	LED PCB	1
3	2040190021	Collet Nut	1
4	2040280002	Collet	1
5	4010010006	Bearing 687	1
6	2040290108	Output Shaft	1
7	4010010041	Bearing 688	1
8	2040160086	Spindle Lock Pin	1
9	2050060113	Spindle Lock Spring	1
10	3120020168	Lock Cap	1
11	3140060027	Motor Positioning Ring	2
12	1039020003	Motor	1
13	1180060032	Battery Contacts Assembly	1
14	1290030002	Battery	1
15	3110010232	Speed Control Cover	1
16	3160070016	Speed Control assembly	1
17	3120010115	On-Off Button	1
18	3120020149	Speed Control Button +	1
19	3120020150	Speed Control Button -	1
20	1130030053	PCB	1
21	4030010020	Screw ST2.9X6	1
22	3010180008	Housing	1
23	4030010034	Screw ST2.9X12	2
24	4030010028	Screw ST2.9X16	4
25	2030090032	Flat U Clamps	2

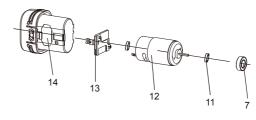
#### WARRANTY

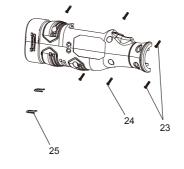
If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. 3-year warranty for the battery and charger. This warranty does not include expendable parts including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

#### **EXPLODED VIEW**







## 8V MAX CORDLESS ROTARY TOOL KIT



## BENCHMARK

### 1280-003

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WEAR CSA APPROVED EYE PROTECTION Made in China

WEAR A FACE MASK

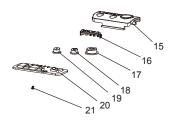


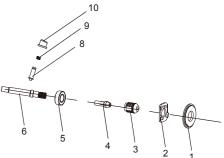
\* This Benchmark<sup>™</sup> product carries a five (5) year LIMITED warranty against defects in workmanship and materials. The charger and batteries carry a three (3) year LIMITED warranty. See Owner's Manual for full details.



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

> WEAR EAR PROTECTION





# BENCHMARK

## 8V MAX CORDLESS ROTARY TOOL KIT

