

BENCHMARKTM MC

12V MAX CORDLESS ROTARY TOOL KIT



5 Year Limited Warranty
3 Year Limited Warranty on Battery and Charger



JD5659

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

Maximum initial battery voltage (measured without a load)
is 12 volts. Normal voltage is 10.8 volts.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

PRODUCT SPECIFICATIONS

12V MAX CORDLESS ROTARY TOOL KIT	
RPM	0–25,000 RPM (no load)
Collets	1/8"(3.2 mm) & 3/32"(2.4 mm) & 1/16"(1.6mm)
Battery	12 V, 2.5 Ah Lithium-ion
Battery charger	120-minute diagnostic, Class 2
Charger input	120 V AC, 60 Hz
Charger output	12 V DC, 1.5 A (maximum)
Weight	0.9LBS (0.42 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

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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.

This instruction manual includes the following: General Safety Rules / Specific Safety Rules and Symbols Functional / Description / Assembly / Operation Maintenance / Accessories

EYE, EAR & LUNG PROTECTION

SYMBOL	MEANING
<p> DANGER</p>  	<p>ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA Z94.3 or ANSI SAFETY STANDARD Z87.1</p> <p>FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection.</p> <p>Non-compliant eyewear can cause serious injury if broken during the operation of a power tool.</p>
<p> WARNING</p> 	<p>Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.</p>
<p> WARNING</p> 	<p>WEAR A DUST MASK THAT IS DESIGNED TO BE USED WHEN OPERATING A POWER TOOL IN A DUSTY ENVIRONMENT.</p> <p>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:</p> <ul style="list-style-type: none"> • Lead from lead-based paints • Crystalline silica from bricks, cement, and other masonry products • Arsenic and chromium from chemically treated lumber. <p>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.</p>
<p> WARNING</p> 	<p>To avoid electrical hazards, fire hazards or damage to the tool, use proper circuit protection.</p> <p>This tool is wired at the factory for 120 Volts AC operation. It must be connected to a 120 Volts AC, 15 Amps circuit that is protected by a time-delayed fuse or circuit breaker. To avoid shock or fire, replace power cord immediately if it is worn, cut or damaged in any way.</p>

GENERAL SAFETY RULES

 **WARNING:** Read all safety warnings and all 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) 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.

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 etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

Hold power tools by insulated gripping surfaces when performing an operation where cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.

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.

SPECIFIC SAFETY RULES FOR ROTARY TOOL

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.

Operations such as cutting-off are not recommended to be performed with this power tool. Operations for which the power tool was not designed may create a hazard and cause personal injury.

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.

The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their RATED SPEED can break and fly apart.

The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately guarded or controlled.

The arbor size of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool. Accessories with arbor holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.

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 accessories will normally break apart during this test time.

Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

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.

SPECIFIC SAFETY RULES

Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.

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.

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.

Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

Do not operate the power tool near flammable materials. Sparks could ignite these materials.

Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

DANGER: Always remove the battery when changing accessories. Do not use accessories which are not specifically designed and recommended by the tool manufacturer.

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

BATTERY & CHARGER SAFETY

⚠️ WARNING: If tool no longer charges properly or is damaged, the tool and battery must not be discarded as household trash, burnt or thrown into water. The tool and 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.

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

Charge the battery only with the charger supplied with this cordless rotary tool.

Do not use the charger to charge any batteries other than the cordless rotary tool battery. Other batteries may explode.

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 bathtubs. 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.

Do not abuse the cord. To reduce the risk of damage to the electric cord or plug, never carry the charger by the cord or yank the cord to unplug the charger.

Always grasp the plug and pull to disconnect. Always keep the cord away from heat, oil and sharp edges.









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.

SYMBOLS

⚠ WARNING: Some of the following symbols may appear on the rotary tool. Study these symbols and learn their meaning. Proper interpretation of these symbols will allow for more efficient and safer operation of this tool.

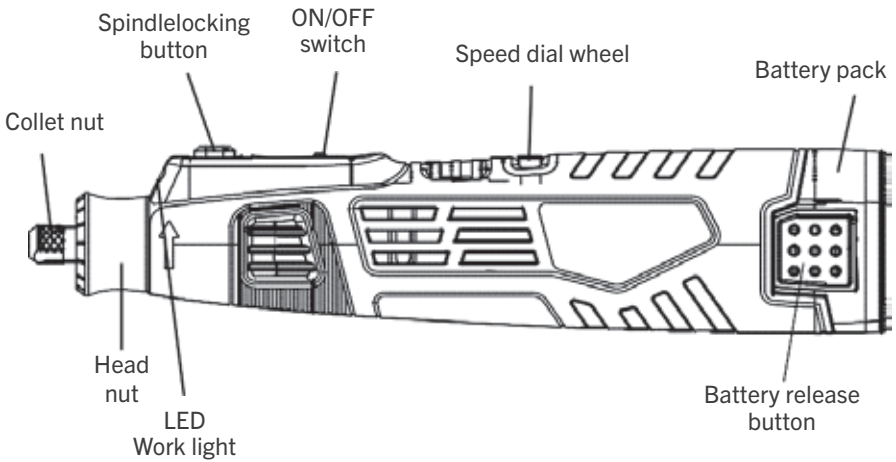
V	Volts		Direct current
A	Amperes	n_0	No load speed
Hz	Hertz		Alternating or direct current
W	Watts		Class II construction
kW	Kilowatts		Splash-proof construction
μF	Microfarads		Watertight construction
L	Litres		Protective grounding at terminal, Class I tools
kg	Kilograms	.../min	Revolutions or reciprocations per minute
H	Hours	\emptyset	Diameter
N/cm ²	Newtons per square centimetre	0	Off position
Pa	Pascals		Directional arrow
Min	Minutes		Warning symbol
s	Seconds		
\sim or AC	Alternating current		
3 \sim	Three-phase alternating current		
3n \sim	Three-phase alternating current with neutral		



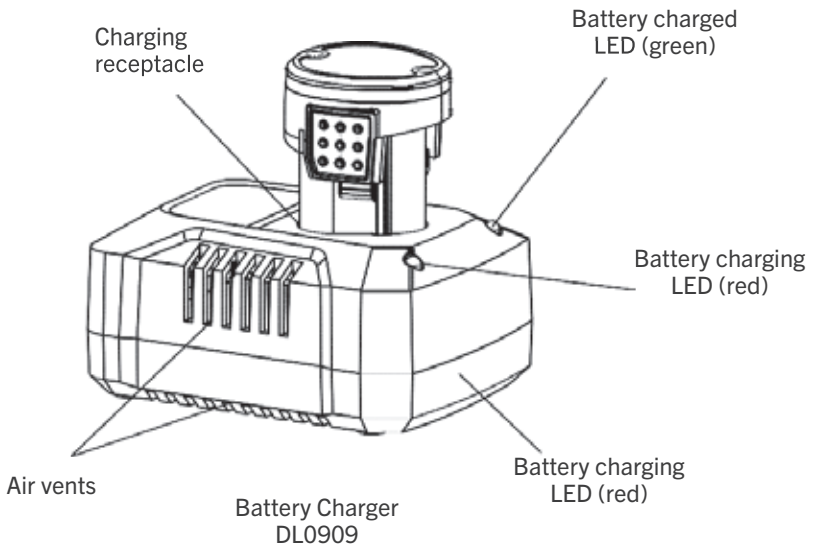
JD5659

This symbol designates that this tool is listed with U.S. and Canadian requirements by cTUVus Testing Laboratories, Inc. UL60745-1, UL60745-2-23, CAN/CSA-C22.2 No.60745-1, CAN/CSA-C22.2 No.60745-2-23.

KNOW YOUR BENCHMARK 12V MAX CORDLESS ROTARY TOOL KIT



Battery
JDB512412



ACCESSORIES AND CONTENTS

AVAILABLE ACCESSORIES

⚠️ WARNING: Use only accessories that are recommended for this cordless rotary tool. Follow the instructions that accompany the accessories. The use of any other accessories may result in injury to the operator or damage to the tool.

Before using any accessory, carefully read the instructions or the owner's manual for the accessory.

Grinding stones
 Cut-off wheels
 Polishing wheels
 Wire brushes
 Bristle brushes
 Sanding drums
 Cutting bits
 Drill bits
 Dressing stones

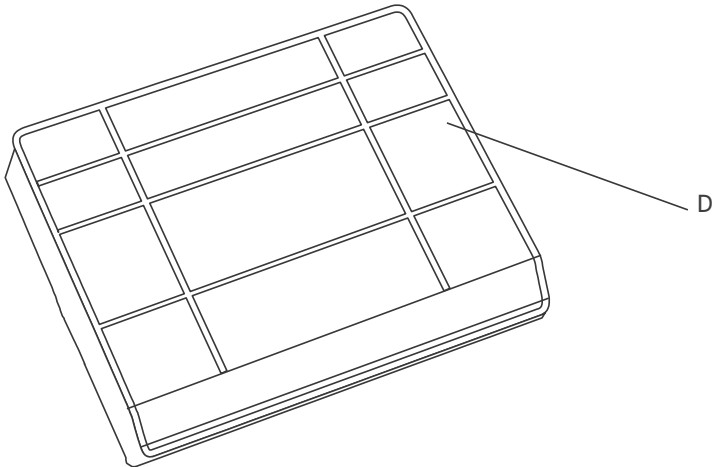
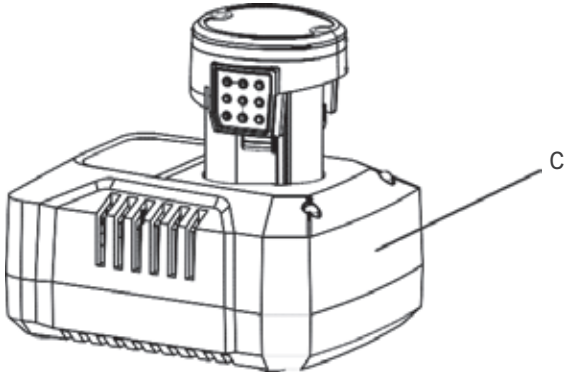
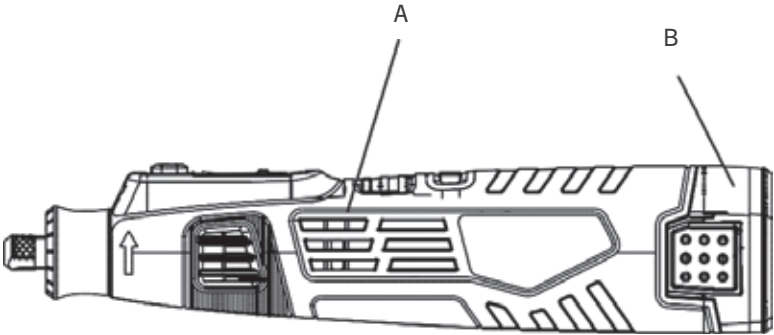
⚠️ WARNING: If any part is missing or damaged, do not attempt to charge the battery or operate the tool until the missing or damaged part is replaced.

CONTENTS







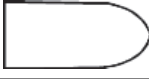










Carefully unpack the cordless rotary tool. Compare the contents against the "ROTARY TOOL COMPONENTS" chart below.






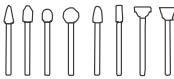


ROTARY TOOL COMPONENTS		
KEY	DESCRIPTION	QTY
A	Rotary tool	1
B	Battery	1
C	Battery charger	1
D	General purpose accessory set (see Page 14 & 15 for contents)	1
	Plastic accessory case	1
	Instruction manual	1

CONTENTS



ACCESSORY CASE CONTENTS

Part	Part Name	Part size	Qty
	Brass brush	1/4" Axial	1
	Bristle brush	7/8" Radial	1
	Brass brush	7/8" Axial	1
	Bristle brush	1/4" Axial	1
	Felt polishing wheel	1/2"	3
	Felt polishing wheel	1"	3
	Felt polishing tip	tip 3/8"	3
	Mandrel for felt wheel	1/8"	1
	Sanding band	1/2"	18
	Drum sander with 1/8" shank	1/2" Diameter	1
	Diamond ball	5/64" Taper	1
	Diamond bit cylinder	Cylinder	1
	Diamond taper	5/64" Taper	1
	Collets	1/8"	1
	Collets	3/32"	1
	Collets	1/16"	1
	Screw mandrel	1/8"	1

Part	Part Name	Part size	Qty
	Screw mandrel	3/32"	1
	Heavy duty cut-off wheel	15/16" x 0.031 Thick	23
	Collet wrench		1
	Dressing stone	3/8" x 3/8" x 1"	1
	Sanding disc	3/4" Circular	31
	Various grinding stones	Assorted	10
	Collet nut		1
	Multi-Purpose Bit	1/8" Cylinder	3

ASSEMBLY AND OPERATION

CHARGING THE BATTERY PACK

⚠ WARNING: Use only the diagnostic charger supplied with the tool to charge the 12 V Li-ion battery supplied with the tool. Charging any other batteries with this charger may damage the charger, and possibly cause serious injury.

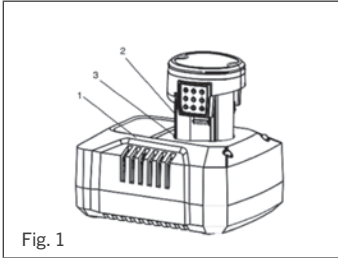


Fig. 1

1. To charge the battery, place the charger (1) in a dry location near a 120 V AC, 60 Hz electrical outlet (Fig. 1).

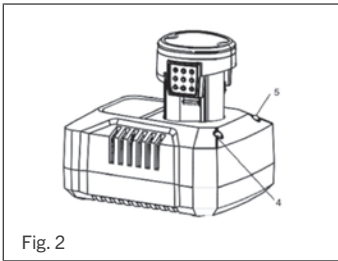


Fig. 2

2. Place the battery stem (2) into the matching cavity (3) in the top of the charger (Fig. 1).

NOTE: Make sure the battery is pressed fully onto the charger as far as it will go.

3. Plug the battery charger into the 120 V AC, 60 Hz wall receptacle.

NOTE: 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 (4) and the green LED (5) on the top of the charger will indicate the charging status (Fig. 2).

CHARGER LED FUNCTIONS (FIG. 3)







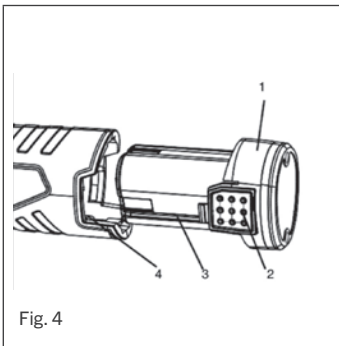
RED LIGHT	GREEN LIGHT	FUNCTION	
	— On		
--- Flashing		Battery charging	
	--- Flashing	Trickle charging	
— On		Defective battery	
— On	— On	Defective Battery (when battery is within normal charging temperature range)	
— On	— On	Too hot or too cold	

Fig 3

INSTALLING A BATTERY IN THE ROTARY TOOL



1. Remove the discharged battery (1) from the tool by pressing on the battery release button (2) on the bottom of the battery (Fig. 4).
2. Pull the battery out of the tool handle.
3. Slide the fully charged battery into the matching cavity in the tool handle where the discharged battery has been removed.

NOTE: Make sure the two keys (3) in the battery stem align with the matching key ways (4) in the handle. The battery release button will “click” into place when the battery is fully installed.

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

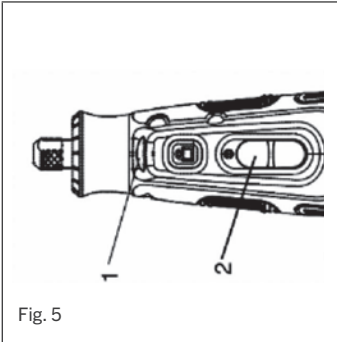
LED WORKLIGHT

Fig. 5

1. To turn the worklight (1) ON, push the ON/OFF button forward (2) (Fig. 5).
2. To turn the worklight OFF, push the ON/OFF switch back (2) Fig.5.

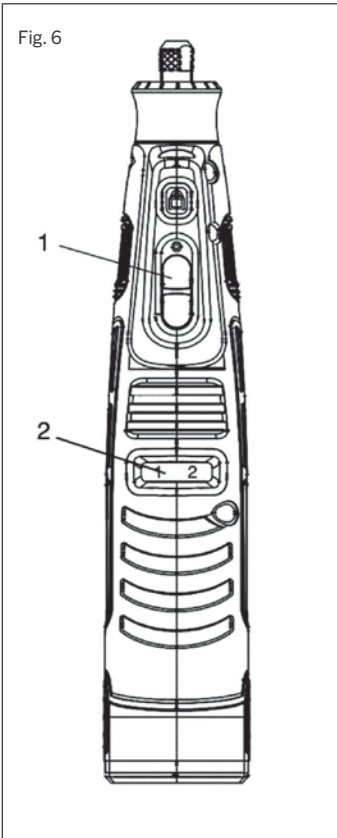
ON/OFF SWITCH

Fig. 6

The ON/OFF switch controls both the worklight (Fig. 6) and the motor of the tool.

1. To turn the rotary tool ON, push the ON/OFF switch forward (1) (Fig. 6).
2. When the worklight comes ON, turn the speed dial wheel, the rotary tool will start.

CHANGING SPEEDS

1. To increase the tool speed, turn the speed dial wheel Clockwise (2)
2. To reduce the tool speed, turn the speed dial wheel counter-clockwise (2) the tool will decrease in speed.
3. To turn the tool OFF, push the ON/OFF switch back.

CHANGING THE COLLET

Some accessories require the use of different sized collets. Collet sizes can be 1/16" (1.6 mm), 3/32" (2.4 mm) and 1/8" (3.2 mm). It is important to ensure that the collet size matches the accessory.

NOTE: This tool includes three of the most used collets: 1/16" (1.6mm), 3/32" (2.4 mm) and 1/8" (3.2 mm).

⚠ WARNING: Using a collet that is too large for the accessory will result in the accessory possibly being thrown from the tool causing serious injury.

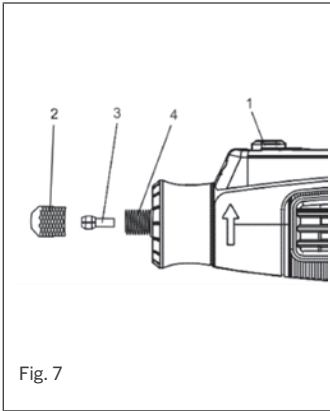


Fig. 7

1. Turn the tool switch OFF.
2. Depress the spindle lock button (1) and slowly turn the collet nut (2) until the spindle lock button locks the spindle (Fig. 7).
3. While holding the spindle lock button down, turn the collet nut counter clockwise until it is removed.
4. Remove the collet (3) by pulling it out of the spindle (4).
5. Insert the replacement collet into the spindle and replace the collet nut by turning it clockwise while holding the spindle lock button down.

NOTE: Do not tighten the collet nut without an accessory installed in the collet. You will damage the collet.

INSTALLING ACCESSORIES

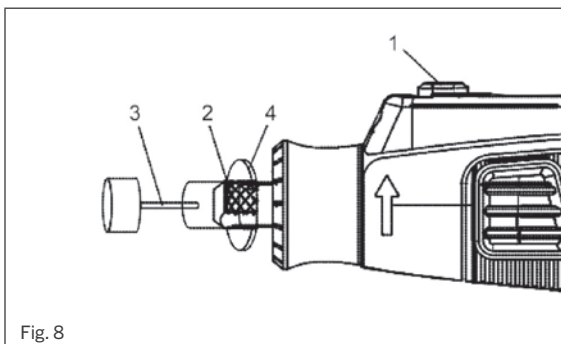


Fig. 8

1. Turn the switch OFF.
2. Depress the spindle lock button (1) and slowly turn the collet nut (2) until the spindle lock button locks the spindle (Fig. 8).
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 small wrench (4) supplied. Over tightening will cause damage to the tool.

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



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", "BATTERY AND CHARGER

SAFETY" and "SYMBOLS" before using this rotary tool.

Every time you use the rotary tool you should verify the following:

- 1. The accessory is in good condition and not damaged in any way.**
- 2. The workpiece is properly secured.**
- 3. Safety glasses are being worn.**

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

SELECTING PROPER SPEEDS

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

OPERATION	SPEED
Cutting metal	Medium / high
Sanding wood	Medium / high
Cutting hard metal	Medium / high
Engraving metal	Medium
De-burring	Medium
Drilling holes	Medium
Removing rust	Slow / medium
Sharpening	Slow / medium
Polishing	Slow

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.**

LITHIUM-ION BATTERY PERFORMANCE

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 **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.**

Lithium-ion rechargeable batteries generally, provide superior performance to nickel-cadmium batteries when used in power tools.

- Faster charges
- Longer battery life
- More power
- Lighter weight

Lithium-ion batteries perform best and deliver peak output power at room temperature (20° C or 68° F). When operated in lower temperatures, the battery output will be reduced, and it will NOT function below -20° C (-4° F).

The output power will increase as the heat generated by the battery during use increases the internal temperature of the battery. The result is increased power as the tool is used.

LITHIUM-ION BATTERY MAINTENANCE

Lithium-ion batteries share many characteristics with Nickel-Cadmium batteries.

The major characteristic that is NOT shared with Nickel-Cadmium batteries is that 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.

BATTERY PACK REMOVAL AND PREPARATION FOR RECYCLING

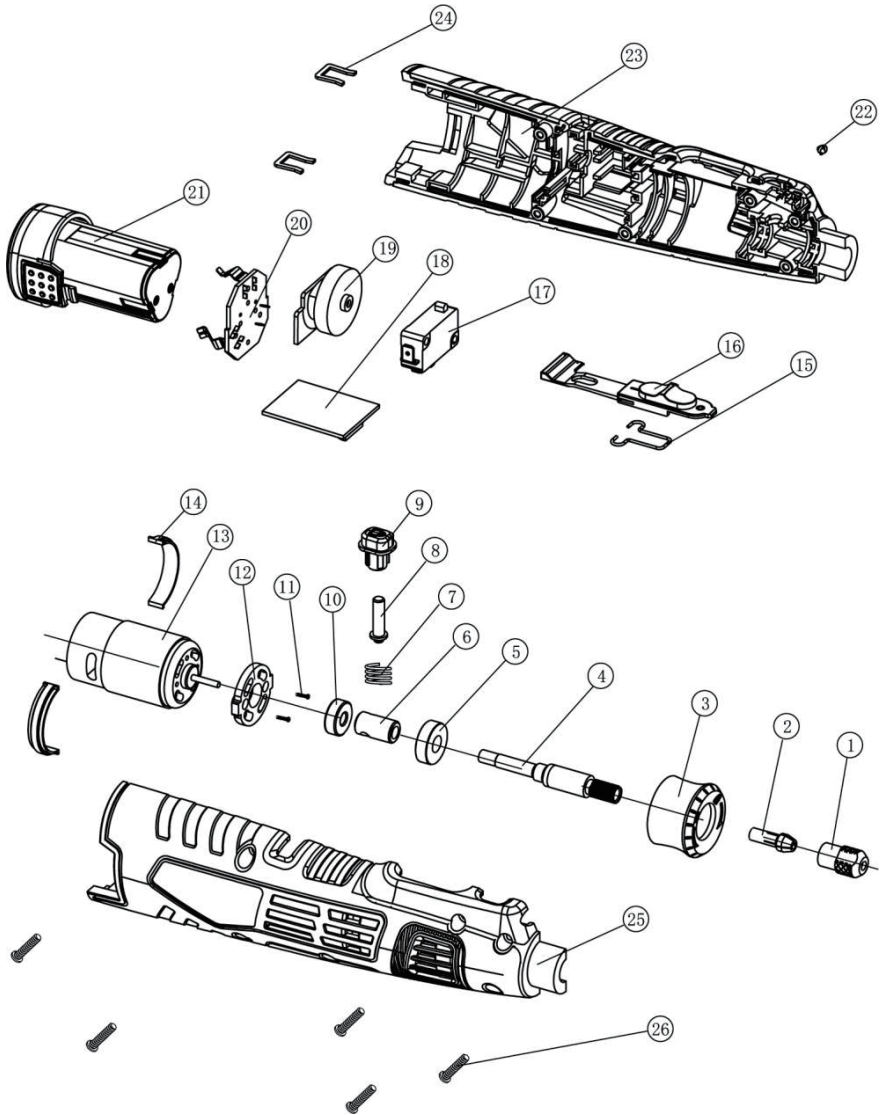
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EXPLODED VIEW



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 rotary tool. Any attempt to repair or replace electrical parts on this welder 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: 9am to 5pm EST.

Always order by key number.

Key #	Part #	Part Name	Quantity
1	2040190009	Collet Nut	1
2	2040280014	Collet	1
3	1160030084	Nut	1
4	2040290114	Output Shaft	1
5	4010010143	Bearing 697	1
6	2040310070	Lock Cap	1
7	2050060284	Spindle Lock Spring	1
8	2040160236	Lock Pin	1
9	3120020174	Button	1
10	4010010013	Bearing 605	1
11	4020010055	Screw	2
12	3150090065	Flange	1
13	1039020007	Motor	1
14	3140060079	Crash pad	2
15	2050080219	Steel wire	1
16	3120110077	Speed Control assembly	1
17	1062010038	On-O Button	1
18	1130030105	Control PCB	1
19	1130010302	PCB	1
20	1180060039	Battery Contacts Assembly	1
21	1070060048	Battery	1
22	3160060024	LED Light Cover	1
23	3010180010	Housing I	1
24	2030090032	Clip	2
25	3010180010	Housing II	1
26	4030010031	Screw	5

WARRANTY

BENCHMARK WARRANTY FOR 12V MAX CORDLESS ROTARY TOOL KIT

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.

12V MAX CORDLESS ROTARY TOOL KIT



5 Year Limited Warranty

3 Year Limited Warranty on Battery and Charger

BENCHMARK™
MC

BENCHMARK TOOLS CANADA

ST. JACOBS, ONTARIO N0B 2N0

© 01 / 2021 Home Hardware Stores Limited

CUSTOMER SERVICE/TECH SUPPORT

1-866-349-8665

1280-004

Made in China



* This Benchmark™ 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.



JD5659

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

Maximum initial battery voltage (measured without a load)
is 12 volts. Normal voltage is 10.8 volts.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**