

BENCHMARKTM MC

1/4 SHEET PALM SANDER



5 year limited warranty on tool



JD2446U

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



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

PRODUCT SPECIFICATIONS

BENCHMARK 2A 1/4 SHEET SANDER	
Rating:	120V, 60Hz, AC
Amperes:	2 Amp
Speed:	14,000 OPM (no load)
Sanding pad size:	1/4 sheet
Weight:	2.6 lb (1.2 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.

EYE, EAR & LUNG PROTECTION



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 power tool.

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 POWER 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.

ELECTRICAL SAFETY

WARNING:

To avoid electrical hazards, fire hazards or damage to the tool, use proper circuit protection.

This tool is wired at the factory for 120V AC operation. It must be connected to a 120V AC, 15 A 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.

POWER TOOL SAFETY

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.

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 dust extraction and collection, ensure these are connected and properly used. Use of dust collection facilities 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.

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 SHEET SANDERS


WARNING:


Know your ¼ sheet sander. Do not plug in the sander until you have read and understand this Instruction Manual. Learn the tool's applications and limitations, as well as the specific potential hazards related to this tool. Following this rule will reduce the risk of electric shock, fire, or serious injury.





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

 **WARNING:** Always use a dust mask when sanding.

 **WARNING:** Always use hearing protection when sanding, particularly during extended periods of operation.

 **WARNING:** Always unplug the tool from the power source before changing the sandpaper and when cleaning the tool.

Do not wear gloves, neckties or loose clothing.

Secure the workpiece. Use clamps or a vice to hold the work when practical. It is safer than using your hand and it frees both hands to operate the tool.

Do not sand material too small to be securely held.

Make sure there are no nails or foreign objects in the part of the workpiece to be sanded.

Always keep hands out of the path of the sanding pad. Avoid awkward hand positions where a sudden slip could cause your hand to move into the path of the sanding pad.

To avoid injury from accidental starting, always remove the plug from the power source before installing or removing sandpaper or the vacuum adaptor.

GUIDELINES FOR EXTENSION CORDS

Make sure your extension cord is the proper size. When using an extension cord, be sure to use one heavy enough to carry the current the tool will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The table below shows the correct size to use according to cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number the heavier the cord.

Be sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it. Protect your extension cord from sharp objects, excessive heat and damp or wet areas.

Use a separate electrical circuit for your power tools. This circuit must not be less than 14 gauge wire and should be protected with either a 15A time delay fuse or circuit breaker. Before connecting the power tool to the power source, make sure the switch is in the OFF position and the power source is the same as indicated on the nameplate. Running at lower voltage will damage the motor.

⚠️ WARNING: Repair or replace damaged or worn extension cords immediately.

Select the appropriate extension cord gauge and length using the chart below.












When operating a power tool outdoors, use an outdoor extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.

⚠️ WARNING: Keep the extension cord clear of the working area. Position the cord so it will not get caught on the workpiece, tools or any other obstructions while you are working with the power tool.

MINIMUM GAUGE (AWG) EXTENSION CORDS (120V USE ONLY)					
Amperage rating		Total Length			
More than	Not more than	25' (7.5 m)	50' (15 m)	100' (7.5 m)	150' (7.5 m)
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Applicable	

SYMBOLS

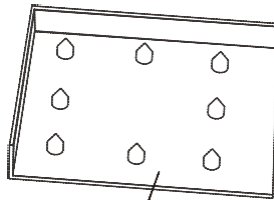
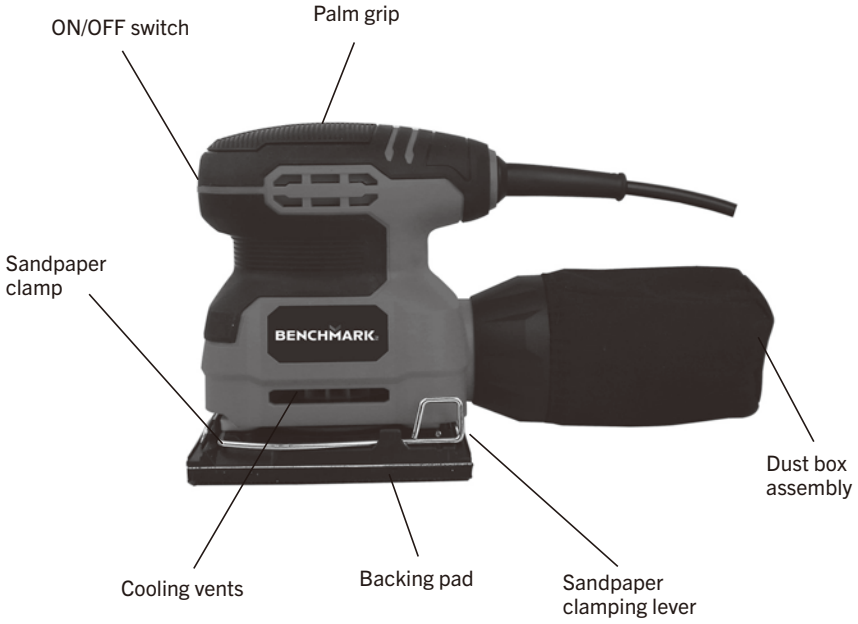
⚠ WARNING: Some of the following symbols may appear on the sheet sander. Study these symbols and learn their meaning. Proper interpretation of these symbols will allow for more efficient and safer operation of this tool.

V	Volts		Three-phase alternating current
A	Amperes		Three-phase alternating current with neutral
Hz	Hertz		direct current
W	Watts	n_0	No load speed
kW	Kilowatts		Alternating or direct current
μF	Microfarads		Class II Construction
L	Liters		Splash-proof construction
kg	Kilograms		Watertight construction
H	Hours		Protective grounding at terminal, Class I tools
N/cm^2	Newtons per square centimetre	.../min	Revolutions or reciprocations per minute
Pa	Pascals	\varnothing	Diameter
OPM	Oscillation per minute	0	Off position
Min	Minutes		Directional Arrow
S	Seconds		Warning symbol
\sim or AC	Alternating current		Wear your safety glasses



This symbol designates that this tool is listed with U.S. and Canadian requirements by cTUVus Testing Laboratories, Inc. UL62841-1, UL62841-2-4; CSA C22.2#62841-1, CSA C22.2#62841-2-4.

KNOW YOUR 1/4 SHEET SANDER



Sandpaper hole punch

ASSEMBLY AND OPERATING

INSTALLING THE DUST BOX ASSEMBLY

1. Insert the dust box assembly sleeve (1) onto the dust chute (2) (Fig. 1).

NOTE: Make sure the locking tabs insert into the matching slots in the rear of the sander housing.

2. Push the dust box assembly sleeve fully onto the dust chute until the locking tabs “snap” into place to hold the dust box firmly onto the sander.

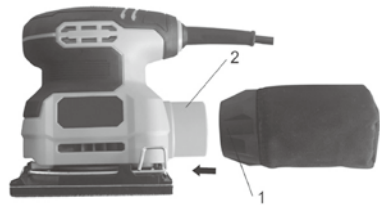


Fig. 1

NOTE: Remove and clean the dust box assembly periodically to remove accumulated dust from the dust box.

CLEANING THE DUST BOX

The dust box will collect much of the sanding dust that is generated during sanding operations. As a result, it must be cleaned out periodically so the dust collection will be efficient.

1. Squeeze the sides of the dust box (1) and pull it away from the rear of the sander (2) (Fig. 2).
2. Pry the top of the dust box (3) away from the bottom of the dust box (4) (Fig. 3).

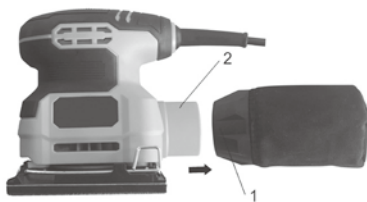


Fig. 2

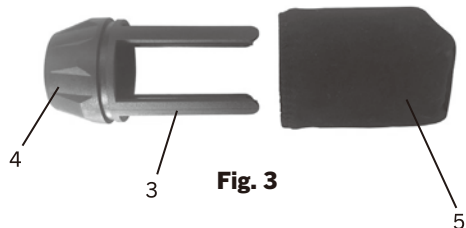


Fig. 3

NOTE: It is best to perform this function either outside or over a trash can, as loose dust will come out of the dust box very easily.

3. Shake all the dust out of the dust box.
4. Use a soft DRY brush to remove the dust from the filter located inside the top of the dust box.
5. Once all the sanding dust is removed from the dust box, press the upper and lower sections together. They will “snap” into place when properly assembled.
6. Reinstall the dust box onto the rear of the sander.

NOTE: The locking tabs (5) will “snap” into place when the dust box is fully pushed onto the rear of the sander.

INSTALLING SANDPAPER

⚠️ WARNING: Unplug the sander from the power source before installing or changing the sandpaper.

NOTE: Cut a standard 9" x 11" sheet of sandpaper into quarters (4½" x 5½").

1. Lift up and outward on the front and rear sandpaper clamp levers (1) at the front and rear of the backing pad (Fig. 4).
2. Insert one end of the ¼ sheet sandpaper (3) with grit side up into the open front sandpaper clamp (4), making sure it is aligned with the backing pad. Lift the sandpaper clamp lever up and inward to lock the sandpaper into the clamp.
3. Wrap the sandpaper sheet (3) over the backing pad (2) and insert it into the open rear sandpaper clamp (5) (Fig. 5).

NOTE: Make sure the sandpaper is pulled tight over the backing pad for proper sanding operation.

4. Lift the sandpaper clamp lever up and inward to lock the sandpaper into the clamp.

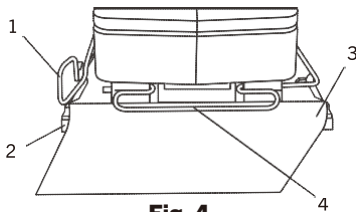


Fig. 4

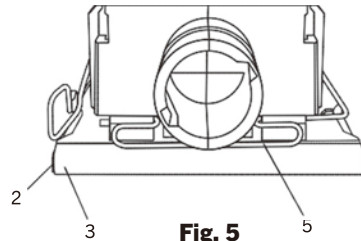


Fig. 5

PUNCHING HOLES IN SANDPAPER

The sandpaper must have 8 holes punched in it to allow the sanding dust to escape from the working surface. The pattern of these holes must match the hole pattern on the sanding pad. If the sandpaper you are using does not have the holes punched, use the hole punch supplied with the tool to pierce the sandpaper in the correct locations.

1. Lift up and outward on the front and rear sandpaper clamp levers (1) at the front and rear of the backing pad (Fig. 4).

Install the sandpaper as shown in Fig. 4 & 5.

2. Place the hole punch (1) on a sturdy flat surface (Fig. 6).
3. Align the corner of the sanding pad (2) with the corner of the hole punch (3). This will ensure the holes are punched in the correct location.
4. When the sanding pad is correctly aligned on the hole punch, press the sanding pad firmly onto the hole punch.

NOTE: The sharp pegs (4) in the hole punch will pierce the sandpaper in the correct location.

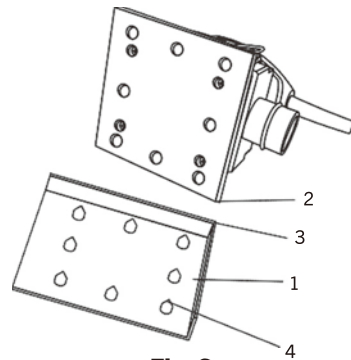


Fig. 6

SANDPAPER SELECTION

Selecting the correct grit and type of sandpaper is extremely important in achieving a high quality sanded finish. Aluminum oxide, silicon carbide and other synthetic abrasives are best for power sanding. **Natural abrasives such as flint and garnet are too soft for economical use in power sanding.**

In general, coarse grit will remove the most material and finer grit will produce the best finish in all sanding operations. The condition of the surface to be sanded will determine which grit will do the best job. If the surface is rough, start with a coarse grit and sand until the surface is uniform. Medium grit may then be used to remove scratches left by the coarser grit. Fine grit should be used for finishing the surface. Always continue sanding with each grit until the surface is uniform.

⚠️ 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", "GUIDELINES FOR EXTENSION CORDS" and "SYMBOLS" before using this sander.

Verify the following every time the sander is used:

1. Sander cord is not damaged.
2. Safety glasses and dust mask are being worn.
3. Hearing protection is being worn.
4. Sandpaper is the correct type for the job.
5. Sandpaper is in good condition and is properly installed.

Failure to observe these safety rules will significantly increase the risk of injury.

⚠️ WARNING: Always wear safety goggles or safety glasses with side shields when operating your sander. Failure to do so could result in foreign objects being thrown into your eyes resulting in possible serious eye damage.

Always wear an appropriate dust mask and hearing protection when using your sander.

ON/OFF SWITCH

To turn the switch ON, press the right hand side of the ON/OFF switch (2) (Fig. 7). To turn the switch OFF, press the left hand side of the ON/OFF switch (1).

SANDING

Clamp or otherwise secure your workpiece to prevent it from moving under the sander while being sanded.

⚠️ WARNING: An unsecured workpiece could be thrown toward the operator causing injury.

Place the sander on the workpiece so that the complete sandpaper surface is in contact with the workpiece. Turn the sander ON by pressing on the side of the ON/OFF switch. Move the sander slowly over workpiece making successive passes in parallel lines, circles or crosswise movements.

Upon completion of the sanding operation, turn the sander OFF by pressing on the opposite side of the ON/OFF switch. Wait until the sanding pad comes to a complete stop before removing it from the workpiece.

⚠️ WARNING: Your sander should only be turned ON when the entire surface of the sanding pad is in contact with the workpiece. Failure to follow this sanding procedure could result in loose sandpaper which could result in possible injury.



Fig. 7

NOTE: Hold the sander using the grip on top of the sander. Be careful NOT to cover the motor cooling vents with your hand. Motor damage may occur from over heating if the cooling vents are covered.

DO NOT FORCE THE SANDER. The weight of the sander usually provides adequate pressure. Let the sander and the sandpaper do the work. Applying added pressure will slow the motor, increase the wear on the sandpaper and greatly reduce the sander speed. Motor damage may occur if excessive downward pressure is applied. It will also create an inferior finish on sanded work. Any finish or resin on wood will soften from the frictional heat, causing the sandpaper to become clogged very quickly. Do not sand in one spot too long as the sander's rapid action may remove too much material, making the surface uneven.

Extended periods of sanding may tend to overheat the motor. If this occurs, turn sander OFF, wait until the sanding pad comes to a complete stop and remove it from the workpiece. Check to make sure your hand has not been covering the cooling vents. Let the motor cool before continuing the sanding operation.

MAINTENANCE

GENERAL

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

DO NOT use solvents when cleaning plastic parts. Most 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 at any time allow brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come in 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 as well as the workpiece.

⚠️ WARNING: DO NOT attempt to modify tools or create accessories not recommended. 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.

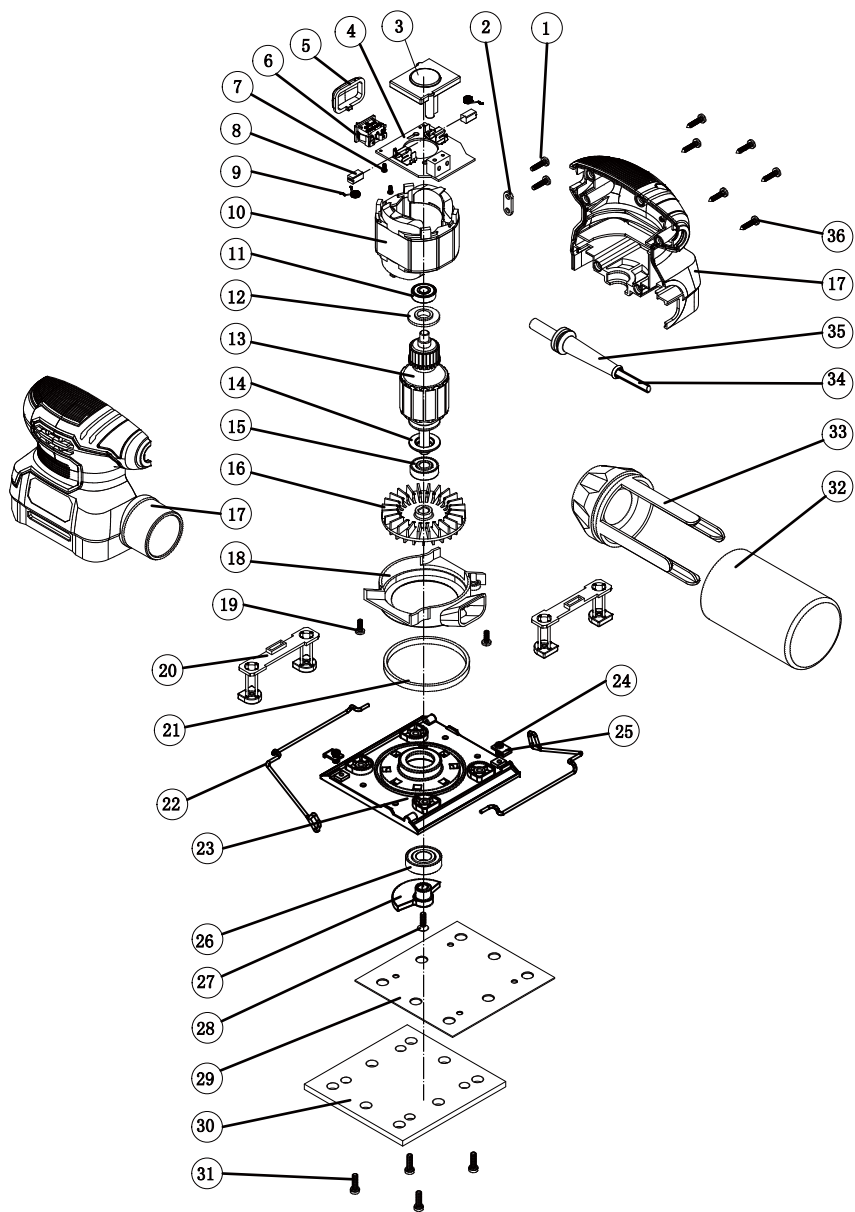
It has been found that electric tools are subjected to accelerated wear and possible premature failure when they are used on fiberglass boats and automotive parts, wallboard, spackling compounds or plaster. The chips and grindings from these materials are highly abrasive to electric tool parts such as bearings, brushes, commutators, etc. Consequently, it is not recommended that this tool be used for extended work on any fiberglass material, wallboard, spackling compounds or plaster. During any use on these materials it is extremely important that the tool is cleaned frequently by blowing the dust out of the tool with an air jet.

⚠️ WARNING: Always wear safety goggles or safety glasses with side shields during all sanding operations. It is critical that you also wear safety goggles or safety glasses with side shields and a dust mask while blowing dust out of the sander with an air jet. Failure to take these safety precautions could result in permanent eye or lung damage.

LUBRICATION

All of the bearings in this sander 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.

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 sander

Always order by PART NUMBER, not by key number.

Key #	Part #	Part Name	Quantity
1	4030010099	TAPPING SCREW	2
2	2030050009	STRAIN RELIEF	1
3	3150210013	SUPPORT	1
4	1130080019	PCB	1
5	3140080029	SWITCH CAP	1
6	1061250001	SWITCH	1
7	4030010026	TAPPING SCREW ST2.9X9	2
8	1230010144	CARBON BRUSH	2
9	2050050052	TORSIONAL SPRING	2
10	1020080049	STATOR	1
11	4010010034	BALL BEARING	1
12	3150130124	INSULATION BARRIER	1
13	1010080051	ROTOR	1
14	4030010179	TAPPING SCREW	1
15	4010010048	BALL SPRING	1
16	3150010136	FAN	1
17	3011080039	HOUSING	1
18	3180050028	DUST COLLECTION BOX COVER	1
19	3150130179	O RING	2
20	3150110038	SUPPORT	2
21	3190010055	WOOL RING	1
22	2050080224	STEEL WIRE	2
23	2020120053	ALUMINUM BASE PLATE	1
24	4020010206	TAPPING SCREW	2
25	2030160015	CLAMP	2
26	4010010055	BEARING	1
27	2010130064	COUNTERBALANCE	1
28	4020020008	TAPPING SCREW	1
29	2020210016	ALUMINUM PLATE	1
30	3190020089	SPONGE PLATE	1

Key #	Part #	Part Name	Quantity
31	4020010005	TAPPING SCREW	4
32	3190110008	DUST BAG	1
33	3180060023	SUPPORT	1
34	1190030016	CORD	1
35	3140010004	CABLE SHEATH	1
36	4030010102	TAPPING SCREW	6

WARRANTY

BENCHMARK 2A 1/4 SHEET SANDER 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.

1/4 SHEET PALM SANDER

1262-301

1/4 SHEET PALM SANDER



5 year limited warranty on tool

BENCHMARK™
MC

BENCHMARK TOOLS CANADA

ST. JACOBS, ONTARIO N0B 2N0

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CUSTOMER SERVICE/TECH SUPPORT

1-866-349-8665

1262-301

Made in China



* This Benchmark™ product carries a five (5) year LIMITED warranty against defects in workmanship and materials. See Owner's Manual for full details.



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