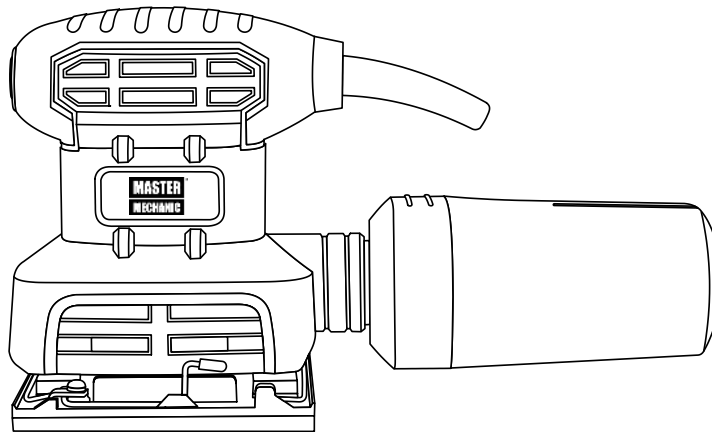


2 AMP 1/4 SHEET PALM SANDER

134465

Owner's Manual



PRODUCT SPECIFICATIONS

Rating:	120V, 60Hz, AC
Amperes:	2 AMP
Oscillation speed:	13,000 OPM (no load)
Sanding pad size:	1/4 sheet
Weight:	3 lb 6 oz (1.53 kg)

Need Assistance?

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

- Technical questions
- Replacement parts
- Parts missing from package

Manufactured For and Distributed By
True Value® Company, Chicago, IL
©2011 True Value Company
Made in China

TABLE OF CONTENTS

Product specifications	1
Table of contents	2
General safety warnings	3–4
Eye, ear & lung protection	3–4
Electrical safety	4
Power tool safety	5–6
General safety rules	5
Work area	5
Electrical safety	5
Personal safety	5–6
Power tool use and care.....	6
Service	6
Specific safety rules	7
Extension cord safety	8
Symbols	9
Know your sander	10
Available accessories	10
Contents	11
Assembly and operating	12–17
Installing the dust box assembly	12
Removing & cleaning the dust box assembly	12
Installing sandpaper	13–14
ON/OFF switch	14
Sandpaper selection	15–16
Sanding	16–17
Maintenance	18
Exploded view	19
Parts list	20–21
Warranty	22

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



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.

SAVE THESE INSTRUCTIONS FOR REFERENCE

GENERAL SAFETY WARNINGS



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 AMP 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.

POWER TOOL SAFETY

PERSONAL SAFETY – cont'd

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 jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry 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.

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.

SAVE THESE INSTRUCTIONS FOR REFERENCE

SPECIFIC SAFETY RULES

⚠ WARNING: Know your 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 vise 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 dust duct bag.

SAVE THESE INSTRUCTIONS FOR REFERENCE

EXTENSION CORD SAFETY

⚠ 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.

Make sure any extension cord used with this tool is in good condition. When using an extension cord, be sure to use one of heavy enough gauge 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 at right 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 15 AMP time delayed 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.










**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' (30 m)	150' (45 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 sander. Study these symbols and learn their meaning. Proper interpretation of these symbols will allow for more efficient and safer operation of this tool.

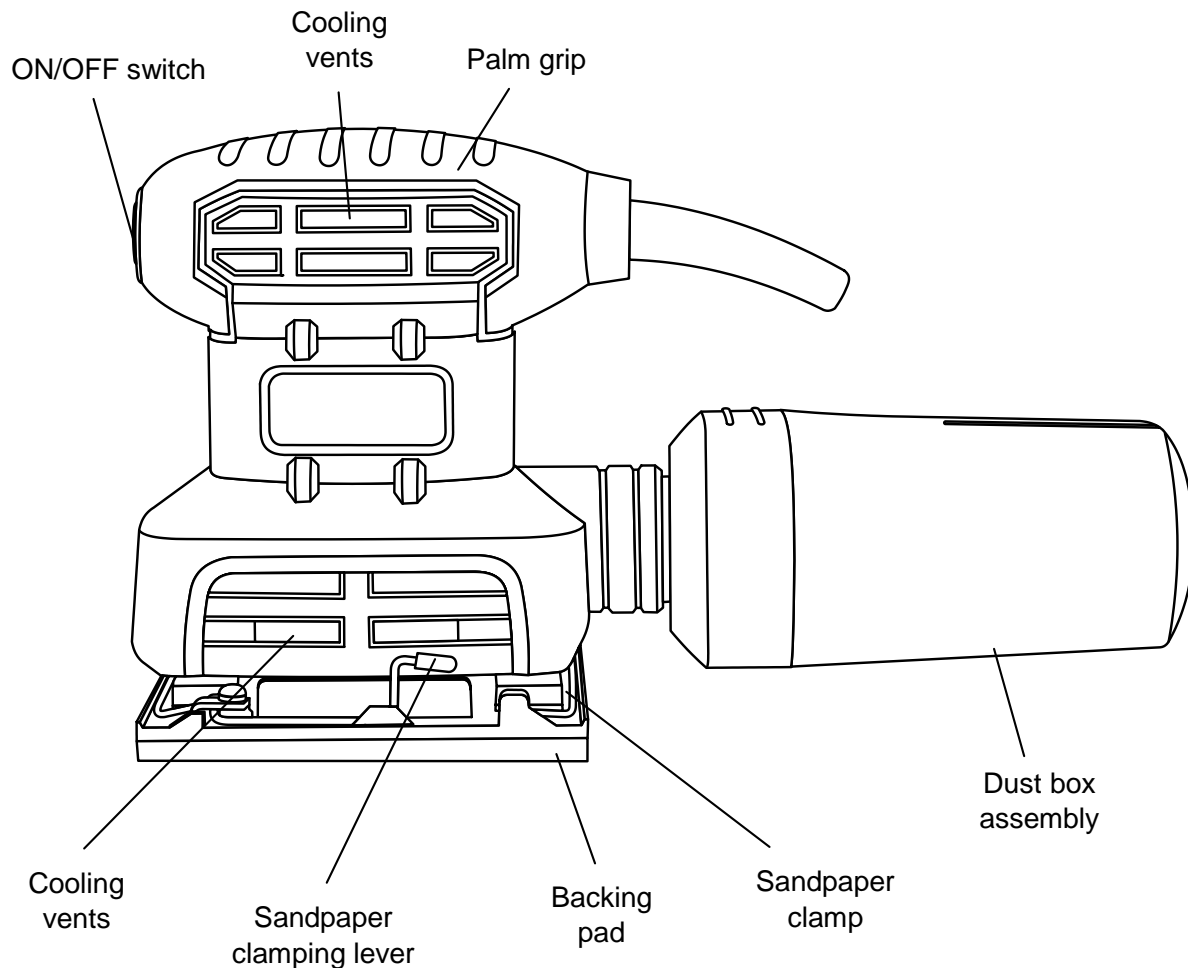
V	Volts
A	Amperes
Hz	Hertz
W	Watts
kW	Kilowatts
μF	Microfarads
L	Liters
kg	Kilograms
H	Hours
N/cm²	Newtons per square centimeter
Pa	Pascals
OPM	Oscillations per minute
Min	Minutes
S	Seconds
 or a.c.	Alternating current
	Three-phase alternating current
	Three-phase alternating current with neutral

	Direct current
n₀	No load speed
	Alternating or direct current
	Class II construction
	Splash-proof construction
	Watertight construction
	Protective grounding at grounding terminal, Class I tools
.../min	Revolutions or reciprocations per minute
∅	Diameter
0	Off position
	Arrow
	Warning symbol
	Wear your safety glasses



This symbol designates that this tool is listed with U.S. requirements by ETL Testing Laboratories, Inc. Conforms to UL Std. 60745-1 and 60745-2-4.

KNOW YOUR SANDER



ACCESSORIES

AVAILABLE ACCESSORIES

⚠ WARNING: Use only sandpaper that is recommended for this sander. Follow the instructions that accompany the accessories. The use of improper accessories may result in injury to the operator or damage to the sander.

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

- Sandpaper

⚠ WARNING: If any part is missing or damaged, do not plug the sander into the power source until the missing or damaged part is replaced.

CONTENTS

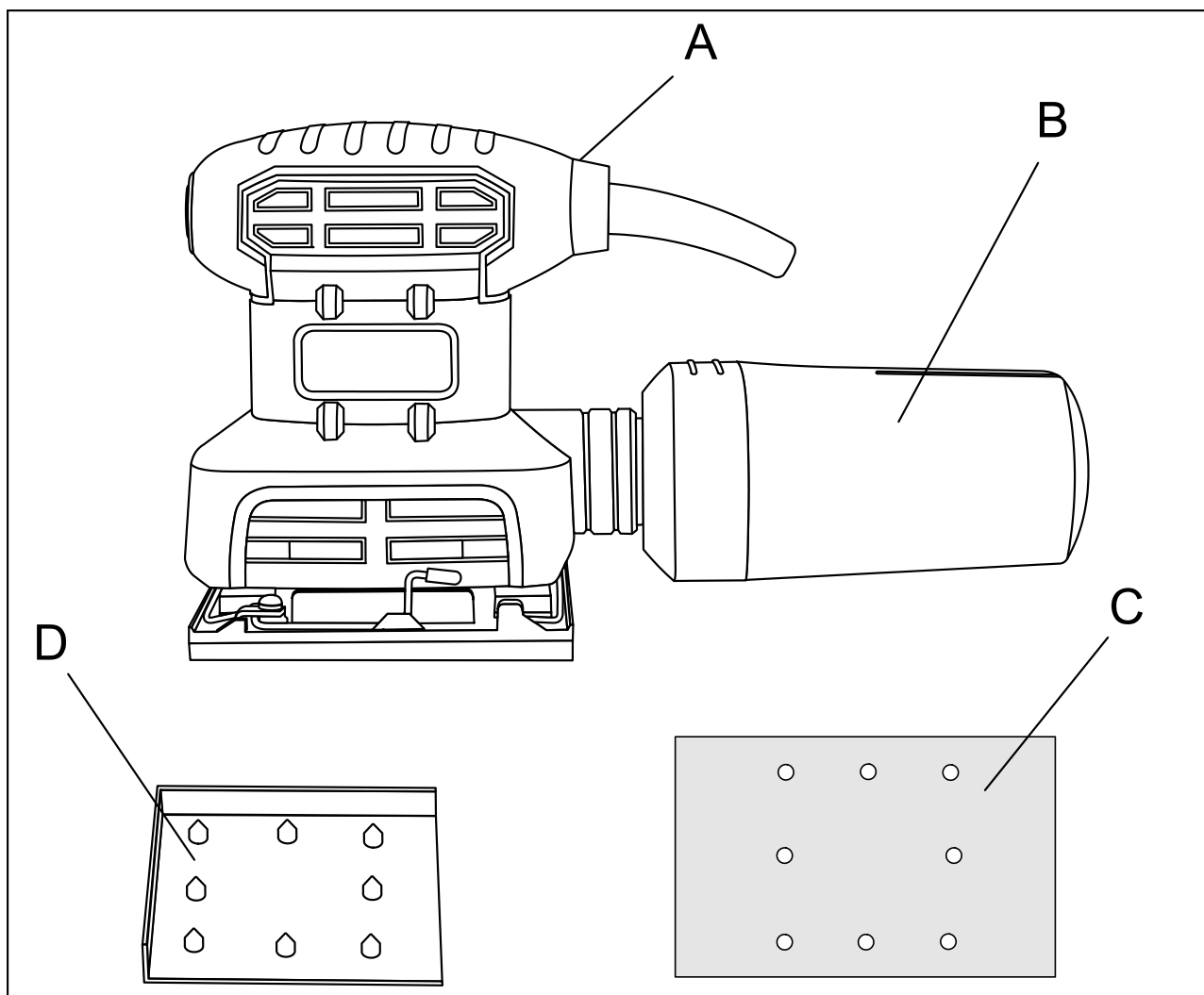
CONTENTS

Carefully unpack the sander. Compare the contents against the "SANDER COMPONENTS" chart at right.

NOTE: See illustration of the sander below.

! WARNING: To avoid fire or toxic reaction, never use gasoline, naphtha, acetone, lacquer thinner or similar highly volatile solvents to clean the tool.

SANDER COMPONENTS		
KEY	DESCRIPTION	QTY
A	Sander	1
B	Dust box assembly	1
C	Sandpaper	
	▪ 60 grit	8
	▪ 80 grit	8
	▪ 120 grit	4
D	Sandpaper hole punch	1
	Owner's Manual	1



ASSEMBLY AND OPERATING

INSTALLING THE DUST BOX ASSEMBLY

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

NOTE: Make sure the tabs (3) insert into the matching slots (4) in the dust chute.

2. Rotate the dust chute sleeve CLOCKWISE approximately 15° to lock it into place.

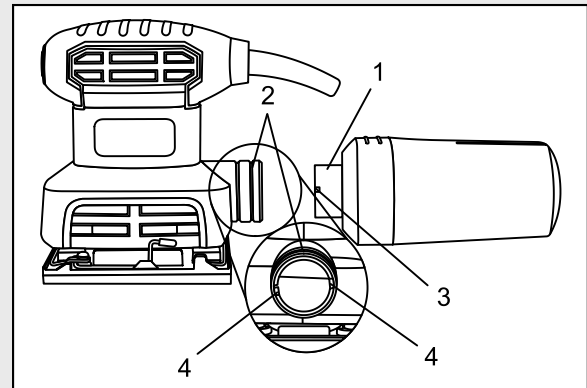


Fig. 1

REMOVING & CLEANING THE DUST BOX ASSEMBLY

The dust box assembly should be removed periodically and emptied to prevent excessive dust build up and to maintain the effectiveness of the dust box.

1. Remove the dust box assembly (1) from the dust chute by rotating it COUNTER CLOCKWISE approximately 15° and pulling it out of the dust chute (Fig. 2).
2. Carefully shake the dust box assembly with the end cap opening (2) pointing downward to remove the sanding dust.

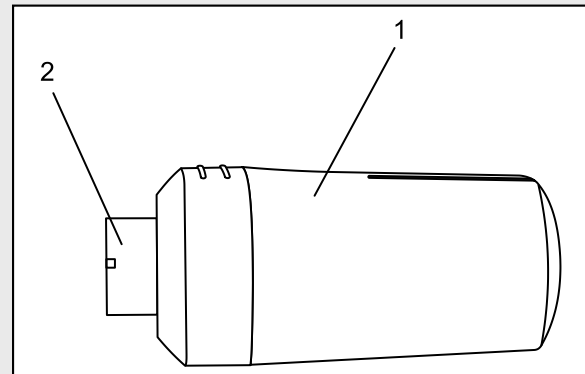


Fig. 2

NOTE: It is best to perform this function outdoors over a trash can to prevent sanding dust from escaping into the work area.

3. Once the sanding dust is removed from the dust box assembly, reinstall the dust box assembly as noted in Fig. 1.

ASSEMBLY AND OPERATING

INSTALLING SANDPAPER

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

1. Lift up and outward on the front and rear sandpaper clamp levers (1) at the front and rear of the backing pad (2) (Fig. 3).
2. Insert one end of the 1/4 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 backing pad and insert it into the open rear sandpaper clamp (5) (Fig. 4).

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.

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.

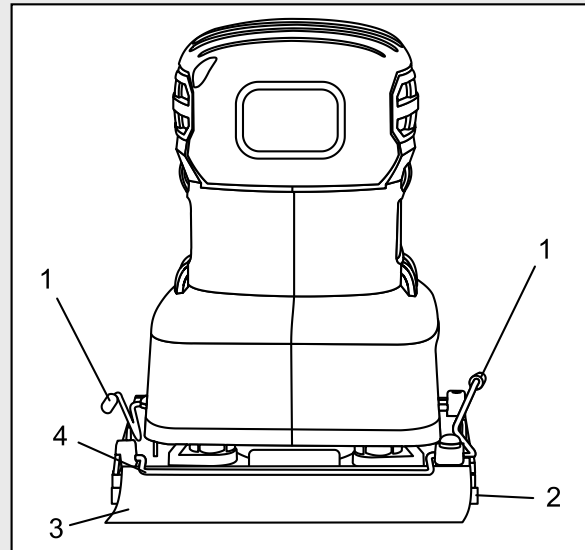


Fig. 3

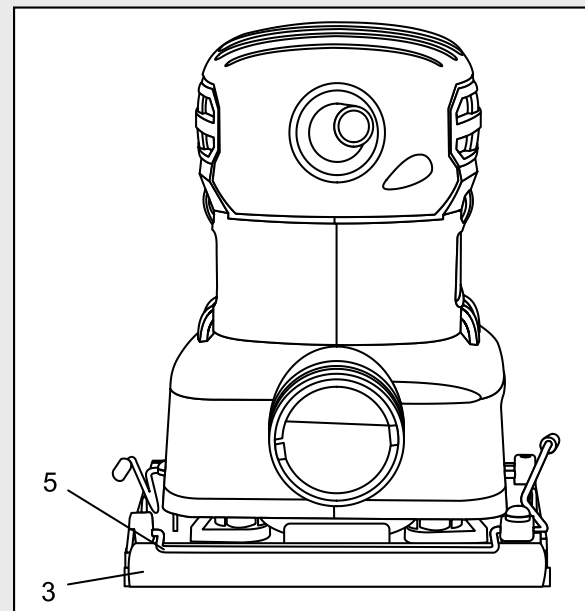


Fig. 4

ASSEMBLY AND OPERATING

PUNCHING HOLES IN SANDPAPER – cont'd

1. Install the sandpaper as shown in Fig. 3 & 4.
2. Place the hole punch (1) on a sturdy flat surface (Fig. 5).
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 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.

ON/OFF SWITCH

To turn the switch ON, press the left hand side of the ON/OFF switch (1) (Fig. 6). To turn the switch OFF, press the right hand side of the ON/OFF switch (2).

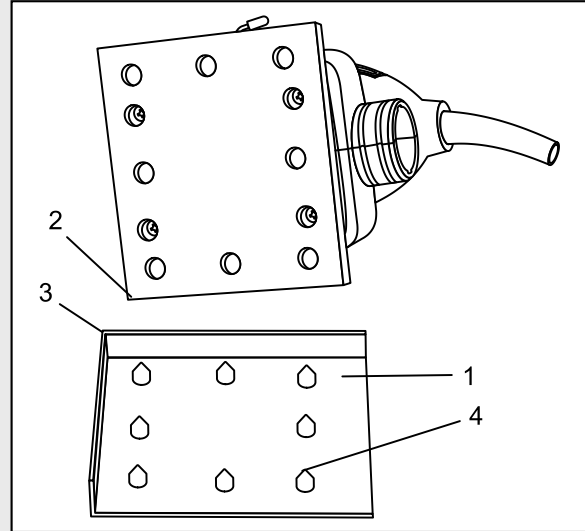


Fig. 5

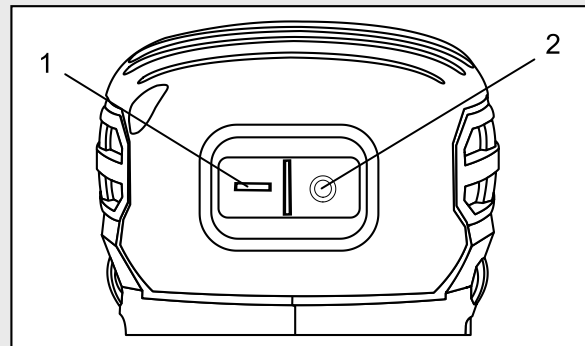


Fig. 6

ASSEMBLY AND OPERATING

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 sander.

Verify the following every time the sander is used:

1. Sandpaper is in good condition and properly installed on the sander.
2. The workpiece is properly secured and free from any foreign objects.
3. Safety glasses, safety goggles, or face shield is being worn.
4. Hearing protection and dust mask are being worn.

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

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.**

ASSEMBLY AND OPERATING

SANDPAPER SELECTION – cont'd

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.

SANDING

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

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 right hand side of the ON/OFF switch. Move the sander slowly over the workpiece making successive passes in parallel lines, circles or crosswise movements. Because the orbital motion of the sanding pad moves in tiny circles, it is not necessary to move the sander with the grain or in the same direction for successive passes (Fig. 7).

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

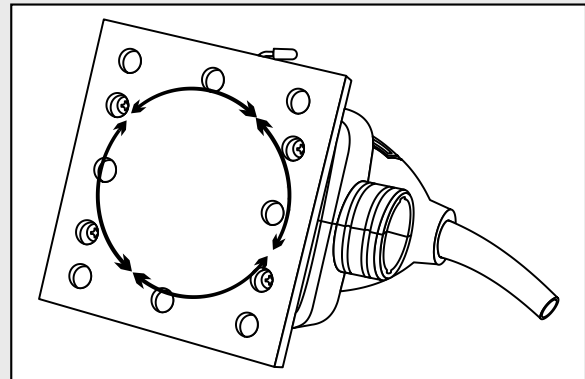


Fig. 7

ASSEMBLY AND OPERATING

SANDING – cont'd

⚠ 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.

NOTE: Hold the sander using the pad grip on top of the sander. Be careful NOT to cover the cooling vents with your hand. Covering the cooling vents could cause the motor to be damaged by overheating.

DO NOT FORCE THE SANDER. The weight of the sander usually provides adequate pressure. Let the sander and sandpaper do the work. Applying added pressure will slow the motor, increase the wear on the sandpaper and greatly reduce the sander speed. Excessive pressure will overload the motor causing possible damage from the motor overheating. It will also create an inferior finish on sanded work. Any finish or resin on wood will soften from the frictional heat, causing sandpaper to become clogged 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 the 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. 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.

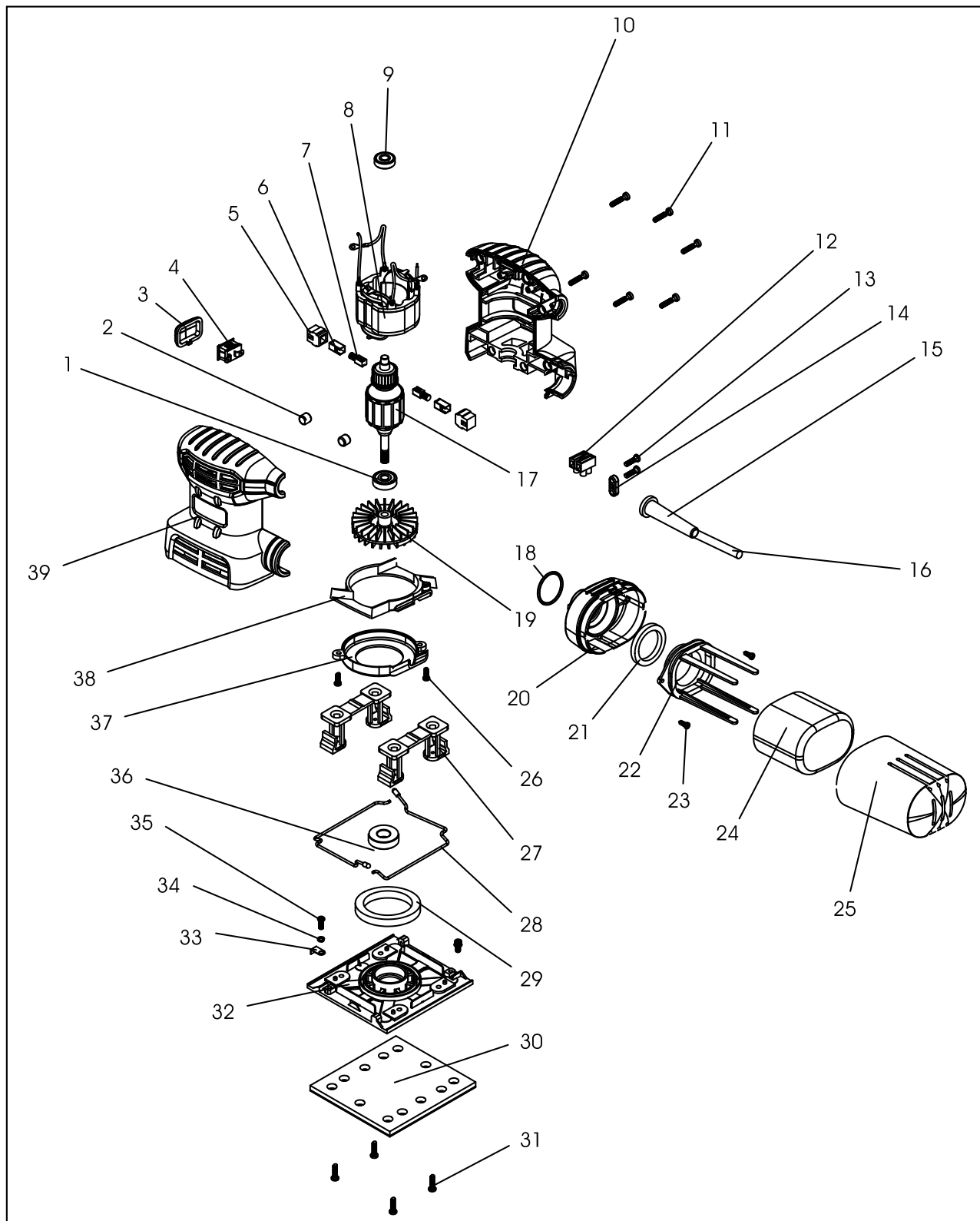
It has been found that electric tools are subjected to accelerated wear and possible premature failure when they are used on fiberglass boats and sports cars, wallboard, spackling compounds or plaster. The chips and grindings from these materials are highly abrasive to electric tool parts such as bearings, 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 it out 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 tool are lubricated with a sufficient amount of high-grade lubricant for the life of the unit under normal conditions. Therefore, no further lubrication is required.

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.

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

Always order by PART NUMBER, not by key number.

Key #	Part #	Part Name	Quantity
1	4010010035	Bearing 627	1
2	3140060001	Rubber cup	2
3	3140080029	Switch cover	1
4	1061150016	Switch	1
5	3150060005	Brush holder support	2
6	2030070001	Brush holder	2
7	1230010063	Carbon brush	2
8	1020080021	Stator	1
9	4010010034	Bearing 607	1
10	3011080019	Right housing	1
11	4030010106	Screw ST3.9x19	6
12	1250010002	Terminal block	1
13	4030010099	Screw ST3.9x14	2
14	3150020001	Cord clamp	1
15	3140010007	Cord guard	1
16	1190030028	Cord set	1
17	1010080021	Rotor	1
18	3140020023	O ring	1
19	2020100007	Aluminum fan	1
20	3180030020	Dust box cover	1

PARTS LIST

Key #	Part #	Part Name	Quantity
21	3190020034	Seal ring	1
22	3180060017	Dust bag support	1
23	4030010026	Screw ST3.9x9	2
24	6150030002	Dust bag	1
25	3180020028	Dust box	1
26	4030010099	Screw ST3.9x14	2
27	3150110018	Support bar	2
28	1160040006	Paper clamping wire	2
29	3190010031	Felt seal	1
30	1150020021	Sponge pad	1
31	4030010182	Screw ST3.9x14	4
32	2020120010	Base plate	1
33	2030160015	Clamping plate	2
34	4040030001	Spring washer	2
35	4000010001	Screw M4x8	2
36	4010010055	Bearing 6001	1
37	3180050018	Dust shroud	1
38	3160090070	Dust shroud cover	1
39	3011080019	Left housing	1

3-Year Limited Warranty:

This product is warranted for 3 years against any defects in material and workmanship. If defective the product will be repaired or replaced free of charge. Simply provide proof of purchase and return the tool to your place of purchase. Normal wear or damage due to abuse, mishandling, or unauthorized repairs is not covered. This warranty does not apply to accessories. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

For technical and product support or parts please call 1-866-FIXTOOL (1-866-349-8665) Monday – Friday from 9am to 5pm Eastern Standard Time.