Electric Random Orbital Sander

33630•33631•33635•33636•33637•33638

Technical Data **December, 2020**

3M Part Number	3M Part Descriptor
33630	3M™ Electric Random Orbital Sander 125mm(5mm) 230V/N
33631	3M™ Electric Random Orbital Sander 150mm(5mm) 230V/I
33635	3M™ Electric Random Orbital Sander 150mm(5mm) 230V/N
33636	3M™ Electric Random Orbital Sander 125mm(5mm) 120V/B
33637	3M™ Electric Random Orbital Sander 150mm(5mm) 120V/B
33638	3M™ Electric Random Orbital Sander 150mm(5mm) 230V/F

Product Description

3M™ Electric Random Orbital sander is intended for industrial/professional use only and is not for consumer use or sale, and used by skilled, trained professionals in accordance with the instructions in this manual. This tool is designed to be used with a disc pad and appropriate abrasive for sanding metals, plastics, and other materials. It should only be used for such sanding applications and within marked capacity and ratings. Only accessories specifically recommended by 3M should be used.

Features

- Brushless motor
- Variable speed adjustment
- Low vibration

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Technical Data

Voltage	33630/33631/33635/33638 – 230V 33636/33637 – 120V
Extraction system	Central vacuum
Pad size	33630/33636 – 125mm 33631/33635/33637/33638 – 150mm
Orbit	5mm
Weight	125mm sander - 1.38kg 150mm sander - 1.41kg
Max free speed	10000RPM
Speed control	4 speed variables
Spindle thread	5/16
Mains frequency	50/60Hz
Niose	125mm sander - 72dB 150mm sander - 71dB
Vibration EN 12096	1.77m/sec2
Power	350W
Hose connector	29mm
Height	100mm
Length	125mm sander – 254mm 150mm sander – 265mm

Operating and Maintenance Instruction

PRIOR TO THE OPERATION

The tool is intended to be operated as a handheld tool. It is always recommended that while using the tool, operators stand on a solid floor, in a secure position with a firm grip and footing. Be aware that the sander can develop a torque reaction.

STARTING AND STOPPING SANDER

1. Plug-in the sander's AC power cord to the power source (110-120Va.c. output). The warning "beep" sounds will occur after the plug is securely plug-in to the power source and the LED indicator shows "Solid Red" color at the moment. - see figure 1.
2. Press the power on/off button " Θ " on the button plate to switch on the sander. The LED indicator shows "flash green" color after sander being switched on. - see figure 2.
3. Adjust the speed by pressing "+" or "-" buttons on the button plate. Press "+" is to raise up to higher speed setting, "-" is to lower the speed setting. - see figure 3.
4. Press the lever to start running the tool. Release the Lever to stop the tool.

Operating and Maintenance Instruction Continued

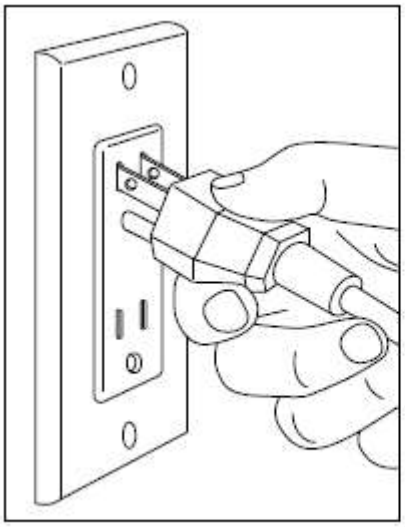


figure 1

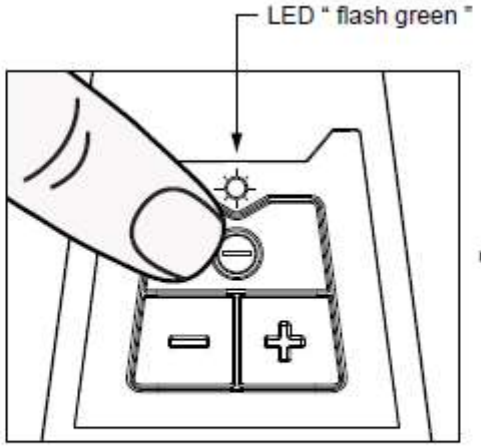


figure 2

MAXIMUM SPEED FUNCTION

The Electric Random Orbital Sander has four preset Maximum Speeds (4,000, 7,000, 9,000 and 10,000/min (RPM)

The Maximum Speed can be changed at any time while the Sander is running or when it is stopped.

Any setting for the Maximum Speed will be stored while the Power is turned "OFF".



MAXIMUM SPEED AND INTERMEDIATE SPEED CONTROL

1. Maximum Speed is adjusted by pressing the "+" or "-" buttons on the buttons plate of the Sander. Each touch will raise or lower the speed to the next setting.
2. Intermediate speeds between Zero (0)/min (RPM) and the set Maximum

Speed can be used with intermediate Lever positions

OVERLOAD PROTECTION SYSTEMS

The Electric Random Orbital Sander has two systems to help protect the motor and circuit board from overloading and overheating.

Operating and Maintenance Instruction Continued

Downforce Overload System

The Sander has the ability to monitor and maintain the preset Maximum Speed as user downforce increases or decreases during use. During periods of overly high user downforce, the Sander will flash the LED on the back of the tool from Green to Red and cause the motor to slow slightly as a warning to the user. Continuous downforce should be no greater than approximately 11 lb. (5Kg). If the user continues with overly high downforce, the Sander will change the LED to solid Red and stop. To restart the sander immediately, released the lever and pressed down again and continue sanding. Repeated overloading will result in frequent motor stops and increased tool temperature.

Temperature Overheat System

The Sander has the ability to monitor temperature of the internal electronic systems, and can shut the tool down when temperature reach damaging levels. During periods that result in high internal temperature, the Sander will shut down if the temperature reaches a damaging level. The Sander will not be able to be restarted until the internal temperature cools to a level safe for the electronic systems. Cooling time depends on local conditions. An initial waiting period of 5 minutes is recommended. Repeated overheating will result in longer cool down times.

ATTACHING DISC PADS

1. Prior to the attachment or removal of a disc pad, ensure the tool power supply is disconnected.
2. Secure the Spindle with the flat wrench provided with the tool, and screw the Disc pad on. Tighten to firm hand-tightness. Do not over tighten.
3. To remove the Disc Pad, insert the flat wrench between the Disc Pad and shroud. Secure the Spindle with the flat wrench and unscrew the Disc pad. - see figure 5.

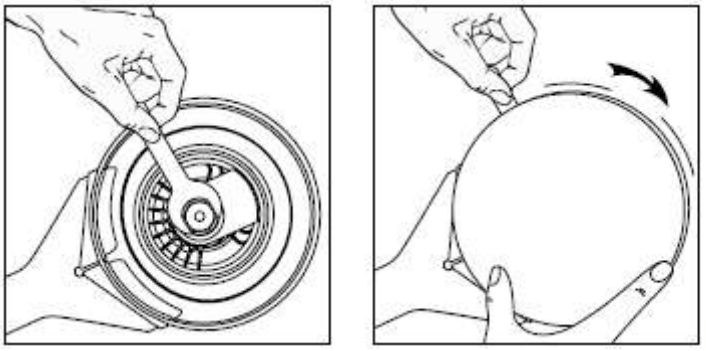


figure 5

CLEANING

1. Periodically blow out all air passages and area above Disk Pad and under shroud with dry compressed air. All plastic parts should be cleaned with a soft damp cloth. NEVER use solvents to clean plastic parts.
2. Wear safety glasses while using compressed air.

For professional use only. Not intended for retail sale.

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General Power Tool Safety Warnings

⚠ **WARNING: Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in serious injury.

Save all warnings and instructions for future reference. The term "power tool" in the warnings refers to your mains-operated (cordless) power tool.

1) Work Area Safety

a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.

b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. may ignite the dust or fumes.

c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) Electrical Safety

a) Power tools plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthe Unmodified plugs and matching outlets will reduce risk of electric shock.

b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is your body is earthed or grounded.

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

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from parts. Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for out shock.

f) If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected risk of electric shock.

3) Personal Safety

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious perso

b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid s protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or b carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on in

d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating p personal injury.

e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpe

f) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected a collection can reduce dust-related hazards.

4) Power Tool Use and Care

a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job bet was designed.

b) 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 s repaired.

c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjust storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of reach of children and do not allow persons unfamiliar with the power tool or these ins tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other conditi tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained p

f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and

g) Use the power tool, accessories and tool bits, etc. in accordance with these instructions, taking into account the w be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5) Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure tha is maintained.

Precautionary Information

An inadequately tightened disc pad could cause the threaded shaft to break causing damage to the tool and work piece and possible injury to the operator or bystanders.

Technical Information

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Warranty, Limited Remedy and Disclaimer

3M Limited Two-Year Warranty

3M warrants this tool will be free of defects in workmanship and materials under normal operating conditions for two (2) years from the date of purchase by the initial end-user customer. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If this tool does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement or repair of the tool or refund of the purchase price. User must operate the tool in accordance with all applicable instructions, safety precautions, and other procedures stated in the operating manual. 3M will have no obligation to refund the purchase price or to repair or replace any tool or part that fails as a result of normal wear, inadequate or improper maintenance, inadequate cleaning, nonlubrication, improper operating environment, improper utilities, operator error or misuse, alteration or modification, mishandling, lack of reasonable care, or any accidental cause. Warranty claims must be made within two (2) years from the date of the end-user customer's purchase.

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