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› [3M](#) /

› [3M Xtract Portable Dust Extractor and Electric Random Orbital Sander Bundle Instruction Manual](#)

3M 88758 Sander + PDE

3M Xtract Portable Dust Extractor and Electric Random Orbital Sander Bundle Instruction Manual

Model: 88758 Sander + PDE

PRODUCT OVERVIEW

The 3M Xtract Portable Dust Extractor and Electric Random Orbital Sander Bundle is designed for efficient and virtually dust-free sanding in industrial environments. This system combines a powerful 9-gallon (35-liter) dust extractor with a 5-inch, 3/16-inch orbit electric random orbital sander. The dust extractor features HEPA filters and automatic filter cleaning, ensuring a cleaner workspace. The sander is built for durability and ergonomic comfort, making it suitable for various applications including metal fabrication, primer sanding, gelcoat sanding, composite sanding, and woodworking.



Figure 1: The 3M Xtract Portable Dust Extractor and Electric Random Orbital Sander Bundle.

SAFETY INFORMATION

Always prioritize safety when operating power tools. Read and understand all instructions before use. Failure to follow these guidelines may result in serious injury or property damage.

- **Eye Protection:** Always wear approved eye protection (safety glasses or goggles) to protect against flying debris.
- **Respiratory Protection:** Despite the dust extraction capabilities, always wear appropriate respiratory protection (e.g., N95 respirator) to prevent inhalation of fine dust particles.

- **Hearing Protection:** Wear hearing protection during extended use to prevent noise-induced hearing loss.
- **Work Area:** Ensure your work area is clean, well-lit, and free from obstructions. Keep bystanders and children away.
- **Electrical Safety:** Ensure the power supply matches the tool's requirements (110V). Do not operate in wet conditions. Inspect cords for damage before each use.
- **Dust Extraction:** Always use the dust extractor or an equivalent central vacuum system with the sander. Operating the sander without proper dust extraction can lead to overheating and premature tool failure, in addition to creating an unsafe environment.
- **Proper Grip:** Maintain a firm grip on the sander during operation.

SETUP

1. Unpacking and Inspection

Carefully remove all components from the packaging. Inspect the dust extractor, sander, and accessories for any signs of damage. If any components are damaged or missing, do not operate the unit and contact 3M customer support.

2. Dust Extractor Setup

1. Ensure the dust extractor is placed on a stable, level surface.
2. Verify that the HEPA filters are correctly installed. The dust extractor includes two HEPA filter cartridges.
3. Attach the poly filter bag inside the dust extractor if not already installed.
4. Connect the conductive hose to the dust extractor's inlet port.



Figure 2: The 3M Xtract Portable Dust Extractor with hose connection points.

3. Sander Setup and Connection

1. Ensure the sander's power cord is unplugged before attaching the dust hose.
2. Attach the 1-inch external threaded vacuum hose (sold separately) to the rear threaded attachment of the sander. This connection is designed for easy and secure attachment/detachment.
3. Securely connect the other end of the vacuum hose to the dust extractor.
4. Attach a 3M Xtract Net Disc to the sander's pad. These discs are engineered to work optimally with the dust extraction system, allowing up to 97% dust extraction.



Figure 3: The 3M Xtract Electric Random Orbital Sander.

OPERATING INSTRUCTIONS

1. Powering On/Off

- Plug the sander's power cord into a 110V outlet.
- The dust extractor features automatic on/off compatibility with both pneumatic and electric sanders. When the sander is turned on, the dust extractor will automatically activate.
- To turn on the sander, press the power button located on the top of the tool.
- To turn off the sander, press the power button again. The dust extractor will automatically shut off shortly after the sander.



Xtract™

Clean Sanding Solutions



Intended use requires dust collection through external and connected vacuum system

Figure 4: The 3M Xtract Sander, emphasizing the need for dust collection.

2. Speed Settings

- The sander offers 7 speed settings, allowing for precise control over material removal.
- Use the '+' and '-' buttons on the sander to adjust the speed. Higher speeds are more aggressive and suitable for rapid material removal, while lower speeds are ideal for fine finishing.

3. Sanding Techniques

- Flat Surfaces:** For flat surfaces, apply even pressure and move the sander in overlapping passes. The precision-balanced motor helps maintain smooth operation.
- Curved or Irregular Surfaces:** The sander's design allows for effective sanding on curved items. Maintain consistent contact with the surface, even at angles, to ensure continuous rotation and optimal sanding performance.
- Dust Extraction:** Always ensure the dust extractor is connected and operating. The system is designed to extract up to 97% of dust when used with 3M Xtract Net Discs, contributing to a cleaner and safer work environment.



Xtract™

Clean Sanding Solutions



Powerful industrial vacuum unit connects to 3M™ Xtract™ Random Orbital Sanders to remove dust from the work surface

Figure 5: A worker utilizing the 3M Xtract sander and dust extractor for efficient material removal.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your 3M Xtract system.

- Filter Cleaning/Replacement:** The dust extractor features automatic filter cleaning. Periodically check the HEPA filters and replace them as needed to maintain optimal dust extraction efficiency.
- General Cleaning:** After each use, wipe down the sander and dust extractor with a clean, dry cloth to remove any accumulated dust or debris. Do not use harsh chemicals or abrasive cleaners.
- Sander Pad Inspection:** Regularly inspect the sander's pad for wear or damage. Replace worn pads to ensure effective sanding and proper disc adhesion.
- Cord Inspection:** Check the power cords for any cuts, fraying, or damage. Replace damaged cords immediately.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Sander not turning on or intermittent power.	Power cord damage, faulty outlet, internal circuitry issue.	Check power cord and outlet. If issue persists, contact 3M support for repair or replacement.
Sander overheating during use.	Lack of proper dust extraction, clogged filters, prolonged heavy use.	Ensure dust extractor is connected and functioning. Clean or replace filters. Allow sander to cool down.
Poor dust extraction.	Clogged filters, full dust bag, hose obstruction, improper disc.	Check and clean/replace HEPA filters. Empty dust bag. Clear any hose obstructions. Ensure 3M Xtract Net Discs are used.
Sander gouging material.	Excessive pressure, incorrect speed setting, uneven surface contact.	Apply lighter, even pressure. Adjust speed setting. Maintain full contact with the surface.

SPECIFICATIONS

Feature	Detail
Product Model	88758 Sander + PDE
Sander Orbit	5 in, 3/16 in Orbit
Sander Voltage	110 Volts
Sander Wattage	350 Watts
Dust Extractor Capacity	9 Gallon / 35 Liter
Filter Type	HEPA Filter
Dust Extractor Features	Automatic Filter Clean, Automatic On/Off with Sander
Sander Features	Ergonomic, Lightweight, Precision-balanced Motor, 7 Speed Settings
Material	Metal (Sander)
Color	Black
Sound Level	70 dB (Dust Extractor)

WARRANTY AND SUPPORT

3M stands behind its products. This product typically comes with a manufacturer's warranty. Based on customer feedback, warranty work is generally guaranteed for 1 year from the date of repair or replacement.

For technical assistance, warranty claims, or to purchase replacement parts and accessories, please contact 3M customer support directly. Refer to the product packaging or the official 3M website for the most current contact information.

You can visit the 3M Store for more information:[3M Industrial Store](#)

