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3M 33443

3M Cubitron II File Belt 33443 Instruction Manual

Model: 33443 | Brand: 3M

INTRODUCTION

This instruction manual provides essential information for the safe and effective use of the 3M Cubitron II File Belt, Model 33443. This product is designed for industrial and occupational applications, specifically for grinding, weld blending, deburring, and other tough metal finishing jobs. The Cubitron II technology ensures a fast, efficient cut and extended durability.

Important Safety Notice: This product is intended for industrial/occupational use only and is not for consumer sale or use. Always follow applicable health and safety regulations and standards.

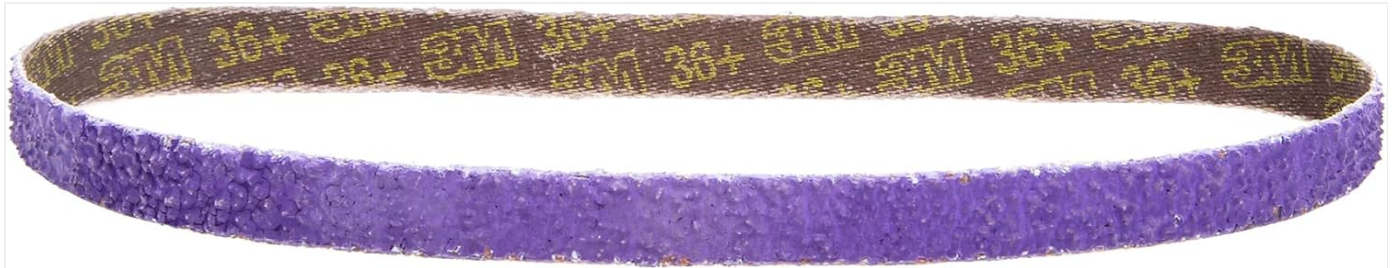


Image 1: The 3M Cubitron II File Belt, Model 33443, featuring its distinctive purple abrasive surface.

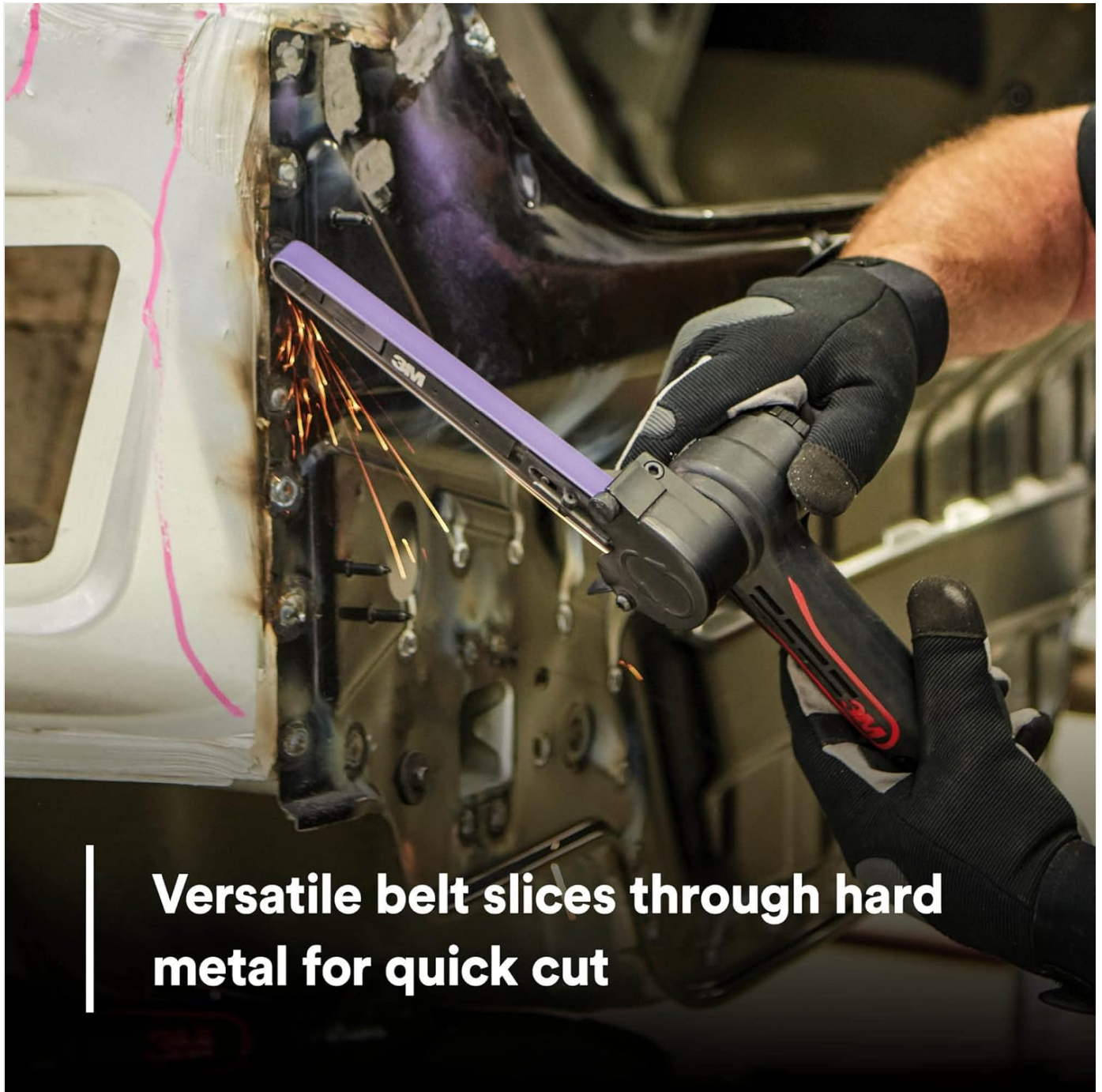
SETUP AND INSTALLATION

The 3M Cubitron II File Belt is designed for use with compatible 3M File Belt Sanders. Proper installation is crucial for safety and optimal performance.

- Ensure Power Tool is Off:** Before attempting to install or remove the file belt, always ensure the file belt sander is disconnected from its power source to prevent accidental startup.
- Identify Belt Direction:** Some file belts may have a directional arrow. If present, ensure the belt is installed so that the arrow points in the direction of the tool's rotation. The Cubitron II File Belt is generally bi-directional.
- Release Tension:** Locate the belt tension release mechanism on your 3M File Belt Sander. Engage this mechanism to loosen the tension on the existing belt or to allow for new belt installation.
- Position the Belt:** Slide the 3M Cubitron II File Belt onto the drive and idler wheels of the sander. Ensure it is centered and seated correctly on both wheels.
- Apply Tension:** Disengage the belt tension release mechanism to apply proper tension to the new belt. The belt

should be taut but not overly tight, allowing for smooth rotation without slipping.

6. **Test Rotation:** Manually rotate the belt a few times to confirm it tracks correctly and does not rub against any part of the tool housing.



Versatile belt slices through hard metal for quick cut

Image 2: Proper installation of the file belt onto a compatible 3M File Belt Sander.

OPERATING INSTRUCTIONS

The 3M Cubitron II File Belt is engineered for aggressive material removal and efficient finishing. Follow these guidelines for optimal performance and safety.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, hearing protection, gloves, and a dust mask or respirator, when operating power tools with abrasive belts.
- **Secure Workpiece:** Ensure the workpiece is securely clamped or held to prevent movement during operation.
- **Start Tool Safely:** Turn on the file belt sander before making contact with the workpiece. Allow the belt to reach full operating speed.

- **Apply Light Pressure:** The Cubitron II abrasive technology is highly efficient. Apply light, consistent pressure to the workpiece. Excessive pressure can reduce belt life and may lead to overheating or gouging.
- **Maintain Movement:** Keep the sander moving across the workpiece to ensure even material removal and prevent localized heat buildup.
- **Applications:** This belt is ideal for tasks such as spot weld removal, grinding, deburring, and blending on various metals. Its precision-shaped grain slices through hard metal quickly.
- **Inspect Regularly:** Periodically inspect the belt for wear, damage, or clogging. Replace the belt if it shows signs of significant wear or damage.



Image 3: The 3M Cubitron II File Belt effectively removing material from a metal surface.

MAINTENANCE AND STORAGE

Proper maintenance and storage will extend the life and performance of your 3M Cubitron II File Belts.

- **Cleaning:** For light clogging, a rubber abrasive cleaning stick can be used to remove accumulated material from the

belt surface while the tool is running at a safe speed. Do not use metal objects.

- **Inspection:** Before each use, inspect the belt for tears, fraying, or excessive wear. A worn belt will be less effective and may break during use.
- **Storage:** Store file belts in a cool, dry place away from direct sunlight and humidity. Belts should be stored flat or hung to prevent kinking or deformation.
- **Disposal:** Dispose of worn or damaged belts according to local regulations for industrial waste.



Image 4: The heavy-duty construction of the 3M Cubitron II File Belt ensures reliable and consistent performance.

TROUBLESHOOTING

Refer to this section for common issues and their resolutions.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Belt wears out quickly	Excessive pressure; incorrect grit for application; belt misalignment; improper storage.	Reduce pressure; select appropriate grit; ensure proper belt alignment; store belts correctly.
Ineffective cutting/poor finish	Belt is clogged with material; belt is worn; incorrect grit for application.	Clean belt with abrasive cleaning stick; replace worn belt; use a coarser grit for heavy removal or finer for finishing.
Belt slips or comes off	Insufficient belt tension; belt misalignment; worn drive/idler wheels.	Adjust belt tension; realign belt; inspect and replace worn wheels on the sander.
Excessive heat generation	Excessive pressure; prolonged contact in one area; dull belt.	Reduce pressure; keep belt moving across workpiece; replace dull belt.

PRODUCT SPECIFICATIONS

Key specifications for the 3M Cubitron II File Belt, Model 33443.

Attribute	Detail
Brand	3M
Model Number	33443
Grit Type	36+ Grit
Dimensions	1/2 inch x 18 inch (12.7 mm x 457.2 mm)
Construction	Resin Bonded, Cubitron II Precision-Shaped Grain
Application	Grinding, weld blending, deburring, spot weld removal on metal
Item Weight	5.1 ounces (approximate for a pack)
Pack Quantity	10 belts per carton

SUPPORT AND FURTHER INFORMATION

For additional product information, technical assistance, or specific application guidance, please consult your on-site safety professional, industrial hygienist, or other subject matter expert.

You can also visit the official 3M website for more details on their industrial and occupational productswww.3M.com.

Proposition 65 Warning: This product may expose you to chemicals which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

