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## JET 708585

# Jet 708585 / MBC-5 5-Piece Chisel and Bit Set

## INSTRUCTION MANUAL

### 1. Introduction

This manual provides comprehensive instructions for the safe and effective use of your JET 708585 / MBC-5 5-Piece Chisel and Bit Set. This set is an essential accessory for the JDP-17MFW and also fits the JMA-582, designed for precision woodworking tasks.

The set includes five pieces: 1/4-inch, 5/16-inch, 3/8-inch, 1/2-inch, and 3/4-inch bits, offering versatility for various applications.

### 2. Important Safety Information

Always follow basic safety precautions when using power tool accessories to reduce the risk of injury. Read all instructions before use.

- Always wear appropriate personal protective equipment, including safety glasses, hearing protection, and gloves.
- Ensure the chisel and bit are securely installed in the mortiser or drill press before operation.
- Keep work area clean and well-lit. Cluttered or dark areas invite accidents.
- Do not force the tool. Allow the tool to work at its intended speed and capacity.
- Disconnect power from the machine before changing accessories or performing maintenance.
- Store chisels and bits in a dry, secure place away from children.

### 3. Package Contents

Your JET 708585 / MBC-5 set includes the following components:

- One (1) 1/4-inch Chisel and Bit
- One (1) 5/16-inch Chisel and Bit
- One (1) 3/8-inch Chisel and Bit
- One (1) 1/2-inch Chisel and Bit
- One (1) 3/4-inch Chisel and Bit



Image: The JET 5-Piece Chisel and Bit Set, showing the various sizes of chisels and bits included in the package.

## 4. Setup

Before using the chisel and bit set, ensure your mortiser or drill press is properly set up and secured according to its own instruction manual.

1. Select the appropriate chisel and bit size for your woodworking task.
2. Ensure the machine is unplugged or powered off.
3. Carefully insert the chisel into the mortiser's chisel holder, ensuring it is seated correctly and aligned.
4. Insert the corresponding drill bit through the chisel and secure it in the drill chuck. Ensure the bit extends slightly beyond the chisel's cutting edge as per your machine's requirements.
5. Tighten all securing mechanisms firmly to prevent movement during operation.
6. Perform a manual test run to ensure proper alignment and clearance before powering on the machine.

## 5. Operating Instructions

Once the chisel and bit are securely installed, you can begin your mortising operation.

- Secure your workpiece firmly to the machine's table using clamps.
- Adjust the depth stop on your mortiser to the desired mortise depth.
- Turn on the machine. Allow the drill bit to reach full speed before engaging the workpiece.
- Slowly and steadily lower the chisel and bit into the workpiece. Do not apply excessive force; let the tool do the work.
- For longer mortises, make successive cuts, overlapping slightly to ensure a clean and continuous mortise.
- Raise the chisel and bit completely out of the workpiece before moving to the next cut or turning off the machine.

## 6. Maintenance

Proper maintenance ensures the longevity and performance of your chisel and bit set.

- **Cleaning:** After each use, clean the chisels and bits to remove wood chips, resin, and dust. A stiff brush or compressed air can be used.
- **Sharpening:** The cutting edges of the chisels and the drill bits will dull over time. Sharpen them

regularly using appropriate sharpening stones or tools designed for woodworking chisels and drill bits. Refer to specialized guides for proper sharpening techniques.

- **Lubrication:** Apply a light coat of machine oil to the metal surfaces of the chisels and bits after cleaning, especially if storing for extended periods, to prevent rust.
- **Storage:** Store the set in its original packaging or a protective case to prevent damage to the cutting edges and to keep them organized.

## 7. Troubleshooting

If you encounter issues with your chisel and bit set, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Rough or chipped cuts	Dull chisel/bit, incorrect feed rate, improper setup.	Sharpen chisel/bit. Reduce feed rate. Re-check setup and alignment.
Excessive heat/smoke	Dull bit, too fast feed rate, incorrect bit for material.	Sharpen bit. Reduce feed rate. Ensure bit is suitable for the wood type.
Chisel/bit getting stuck	Accumulation of chips, dullness, forcing the cut.	Clear chips frequently. Sharpen tools. Apply steady, not forced, pressure.

## 8. Specifications

Key specifications for the JET 708585 / MBC-5 5-Piece Chisel and Bit Set:

Attribute	Value
Product Type	Chisels and Bits
Model Number	708585 / MBC-5
Included Sizes	1/4-inch, 5/16-inch, 3/8-inch, 1/2-inch, 3/4-inch
Compatibility	JDP-17MFW, JMA-582
Overall Length	1.4 inches (approximate)
Overall Width	5 inches (approximate)
Overall Depth	10.5 inches (approximate)
Overall Product Weight	1.7 pounds (approximate)
Manufacturer	JET
UPC	662755107238

## 9. Warranty and Support

JET products are manufactured to high standards and are designed for durability. For specific warranty information, please refer to the warranty card included with your original purchase or visit the official JET

Tools website.

For technical support, replacement parts, or service inquiries, please contact JET customer service.

Contact details can typically be found on the JET Tools website or in your product's original documentation.

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