

## AOBEN 3705

# AOBEN Biscuit Cutter Plate Joiner Model 3705 Instruction Manual

Brand: AOBEN | Model: 3705

This manual provides essential information for the safe operation, maintenance, and setup of your AOBEN Biscuit Cutter Plate Joiner. Please read thoroughly before use.

## 1. INTRODUCTION

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The AOBEN 8.5 Amp Biscuit Cutter Plate Joiner is designed for creating strong, precise joints in various wood materials. It features an 8.5 Amp motor, a 4-inch tungsten carbide-tipped blade, adjustable angle settings, and an integrated dust collection system. This tool is suitable for joints in solid wood, plywood, chipboard, fiberboard, Plexiglas, and artificial marble, for material thicknesses from 8 mm (5/16 in.) and above.



Figure 1.1: The AOBEN Biscuit Cutter Plate Joiner, its carrying case, and a selection of wood biscuits.

## 2. IMPORTANT SAFETY INSTRUCTIONS

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Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- Read all instructions before operating the tool.
- Wear appropriate personal protective equipment, including eye protection, hearing protection, and a dust mask.
- Ensure the workpiece is securely clamped before cutting.
- Disconnect the tool from the power source before making any adjustments, changing accessories, or performing maintenance.
- Keep hands clear of the cutting blade.
- Do not operate the tool in damp or wet conditions.
- Keep the work area clean and well-lit.
- Use only accessories specified for this tool.

## 3. PACKAGE CONTENTS

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Verify that all items are present upon unpacking:

- AOBEN Biscuit Cutter Plate Joiner (Model 3705)
- 4-inch Tungsten Carbide Tipped Blade (pre-installed)
- Dust Bag
- No. 0 Wood Biscuits (30 Pcs)

- No. 10 Wood Biscuits (30 Pcs)
- No. 20 Wood Biscuits (50 Pcs)
- Carrying Case



Figure 3.1: An assortment of No. 0, No. 10, and No. 20 wood biscuits.



Figure 3.2: The carrying case for the AOBEN Biscuit Cutter, with dimensions 18.90 in x 7.09 in x 7.09 in.

#### 4. PRODUCT OVERVIEW

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Familiarize yourself with the components of your biscuit joiner.



Figure 4.1: An annotated image highlighting key components: Dust Collection Bag, D-Handle, Height Adjustment, Adjustable Fence, Plate, and Fence & Angle Scale.

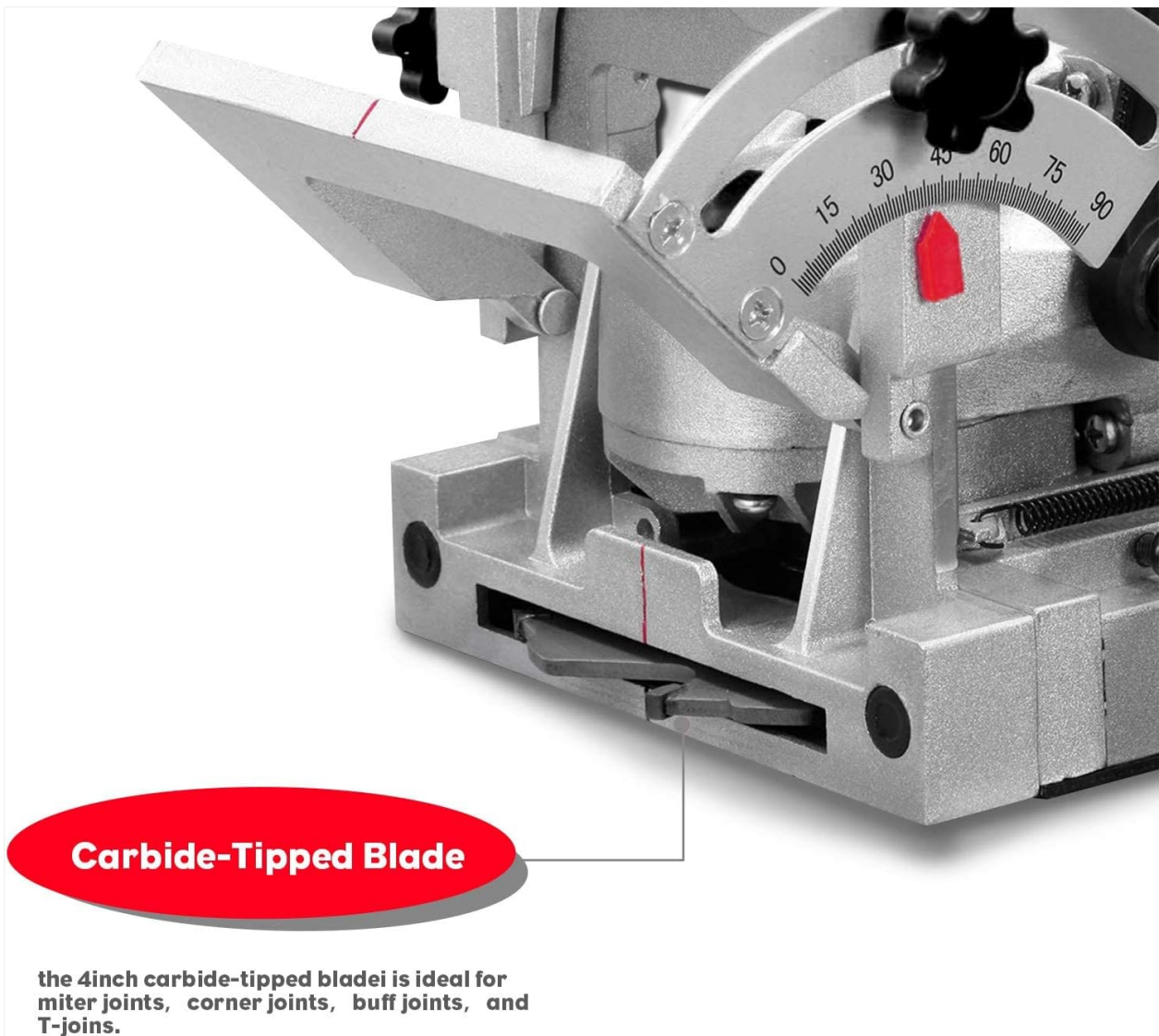
## 5. SETUP

### 5.1 Attaching the Dust Bag

The dust bag connects to the joiner with a simple push-on connection. Ensure it is securely attached before operation to collect debris and maintain a clear workspace.

### 5.2 Blade Installation/Inspection

The 4-inch tungsten carbide-tipped blade is typically pre-installed. Before first use and periodically thereafter, inspect the blade for sharpness and damage. Refer to the maintenance section for blade replacement instructions.



**the 4inch carbide-tipped blade is ideal for miter joints, corner joints, buff joints, and T-joints.**

Figure 5.1: A detailed view of the 4-inch carbide-tipped blade, indicating its suitability for various joint types.

## 6. OPERATION

### 6.1 Adjusting Cutting Depth

The biscuit joiner features pre-set stops for common biscuit sizes: No. 0, No. 10, and No. 20. An additional 'M' (Manual) setting allows for custom depth adjustments.

1. Locate the depth adjustment knob.
2. Rotate the knob to select the desired biscuit size (0, 10, 20) or the 'M' setting for manual depth.
3. For the 'M' setting, further fine-tune the depth using the adjustment screw if available, or by testing on scrap material.



Figure 6.1: An image illustrating the Height Knob for quick height adjustments, the 4 Depth Settings (0, 10, 20, M), and the Angle Knob for setting fence angles.

## 6.2 Adjusting Cutting Angle

The adjustable tilt fence can be locked in position from 0° to 90°.

1. Loosen the angle knob.
2. Tilt the fence to the desired angle, aligning with the angle scale.
3. Tighten the angle knob to secure the fence in place.
4. For precise miter cuts, it is recommended to verify the angle with a separate protractor.



Figure 6.2: A detailed view of the Angle Knob, demonstrating how the fence tilt adjusts up to 45 degrees.

### 6.3 Types of Joints

This biscuit joiner is suitable for various joint types:

- **Corner Joint:** Joining two pieces at a 90-degree angle.
- **Miter Joint:** Joining two pieces at an angle, typically 45 degrees, to form a corner.
- **Frame Joint:** Used for constructing frames.
- **Center Wall Joint:** For joining panels in the middle.
- **Butt Joint:** Simple edge-to-edge joining, with biscuits providing alignment and strength.



Figure 6.3: The AO BEN Biscuit Cutter Plate Joiner in operation, cutting a slot into a wooden workpiece, with wood shavings visible.

## 7. MAINTENANCE

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### 7.1 Dust Bag Emptying

The dust collection bag fills quickly. Regularly empty the bag to maintain effective dust collection and prevent clogging. A full bag can reduce visibility and create a mess.

### 7.2 Blade Care

Keep the blade clean and sharp. A dull blade can cause splintering and strain the motor. Replace worn or damaged blades promptly.

### 7.3 General Cleaning

After each use, clean the tool with a dry cloth. Remove any sawdust or debris from the fence, plate, and adjustment mechanisms to ensure smooth operation. Do not use solvents or harsh chemicals.

### 7.4 Motor Brush Inspection

This tool includes spare motor brushes. Periodically inspect the motor brushes for wear. Refer to the tool's internal diagrams (if available) for brush access and replacement.

## 8. TROUBLESHOOTING

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- **Tool does not start:**
  - Check power connection.
  - Ensure the power switch is in the "ON" position.
  - Inspect the power cord for damage.
- **Cuts are not accurate:**
  - Verify fence and angle settings are securely locked.
  - Ensure the workpiece is clamped firmly.
  - Check the blade for sharpness and damage.
  - Calibrate angle settings with a protractor if necessary.
- **Excessive dust:**
  - Empty the dust collection bag.
  - Ensure the dust bag is properly attached.
  - Check for blockages in the dust collection port.
- **Tool vibrates excessively:**
  - Check if the blade is securely installed and not damaged.
  - Ensure all fasteners are tight.

## 9. SPECIFICATIONS

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Feature	Detail
Brand	AOBEN
Model Number	3705
Power Source	AC
Amperage	8.5A
Blade Diameter	4 inches
Cutting Speed	11,000 RPM
Groove Width	5/32 inches
Adjustable Angle	0° to 90°
Weight	7.6 lbs
Dimensions (Tool)	17" x 14" x 5" inches
Included Components	Biscuit Cutter Plate Joiner, Dust Bag, Biscuits

First Available Date	May 6, 2024
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## **10. WARRANTY AND SUPPORT**

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For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official AOBEN website. Keep your purchase receipt as proof of purchase.