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› Tesa Assa Abloy 403050AI Mortise Lock for Wooden Doors Instruction Manual

## Tesa Assa Abloy 403050AI

# Tesa Assa Abloy 403050AI Mortise Lock Instruction Manual

Model: 403050AI | Brand: Tesa Assa Abloy

## 1. PRODUCT OVERVIEW

This manual provides instructions for the Tesa Assa Abloy 403050AI Mortise Lock, specifically designed for wooden doors. This lock features an 85 mm wheelbase, with adjustable inlets of 40, 50, 60, or 70 mm, and an 8mm nut for Euro profile TE-5 cylinders. It includes 3 nickel-plated steel keys and is reversible. The design allows for adaptation to various door types and includes a sintered steel handle capable of withstanding temperatures over 900°C. A key feature is the internal panic function, ensuring free egress (except for model 4030E).





**Figure 1:** This image displays the primary components of the Tesa Assa Abloy 403050AI Mortise Lock, showing the main lock mechanism, the faceplate, and the escutcheon for the Euro profile cylinder.

## 2. SAFETY INFORMATION

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- Always wear appropriate personal protective equipment (PPE) such as safety glasses and gloves during installation.
- Ensure the door frame and door are structurally sound before installation.
- Keep small components away from children to prevent choking hazards.
- Do not modify the lock mechanism; this may compromise security and void the warranty.
- Refer to local building codes and regulations for proper installation practices.

### 3. PACKAGE CONTENTS

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Verify that all components are present before beginning installation:

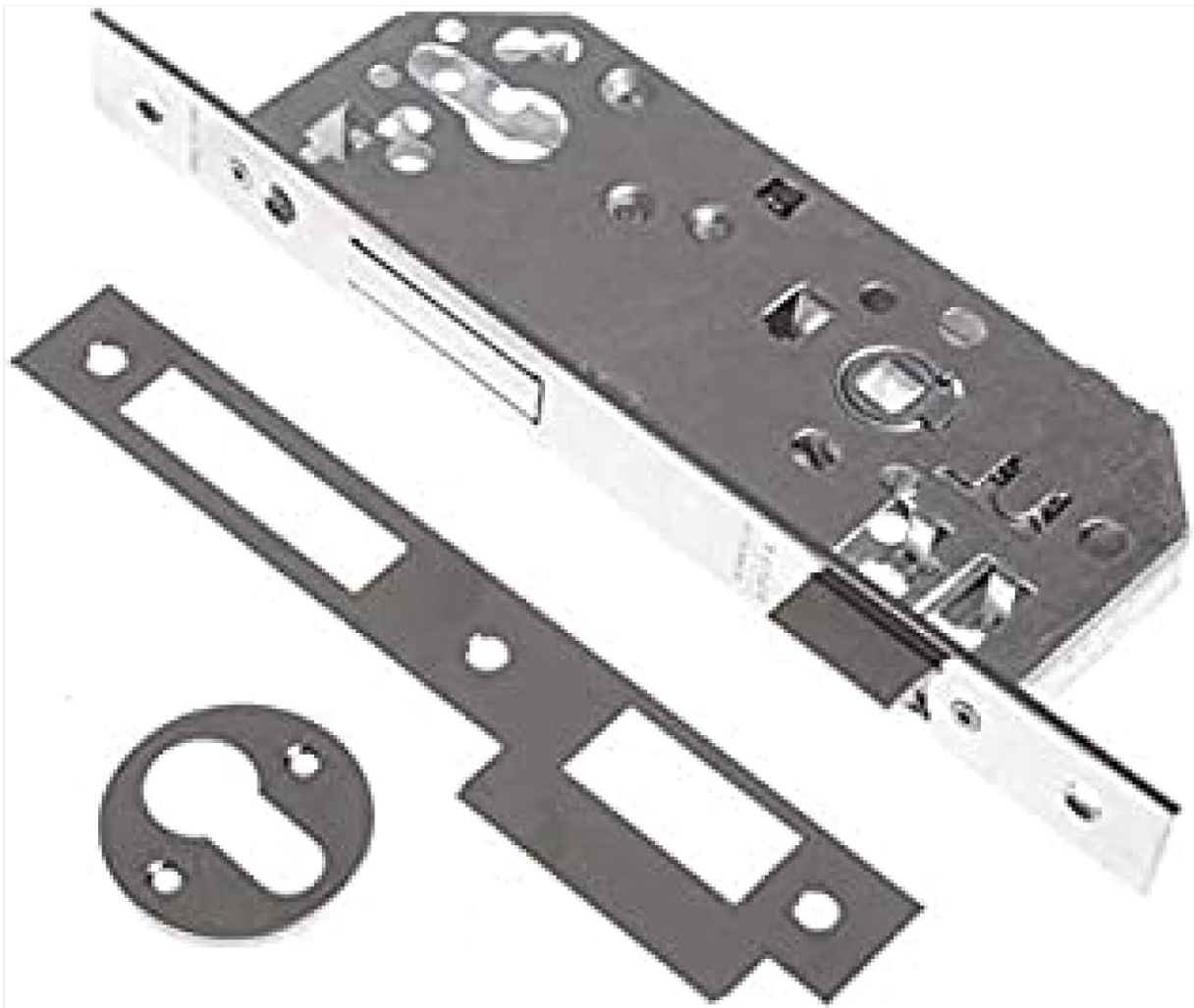
- 1 x Tesa Assa Abloy 403050AI Mortise Lock Body
- 1 x Faceplate
- 1 x Strike Plate
- 3 x Nickel-plated steel keys
- Mounting screws

### 4. SETUP AND INSTALLATION

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**Tools Required:** Drill, chisel, screwdriver, measuring tape, pencil, utility knife.

1. **Prepare the Door:** Mark the lock body position on the door edge and face. Use a template (if available) or carefully measure according to the lock's dimensions to mark holes for the lock body, spindle, and cylinder.
2. **Mortise the Door:** Chisel out the mortise pocket for the lock body. Drill pilot holes for the spindle, cylinder, and mounting screws as marked. Ensure the mortise is deep enough for the lock body to sit flush.
3. **Install the Lock Body:** Insert the mortise lock body into the prepared pocket. Ensure it sits flush with the door edge. Secure the lock body with the provided mounting screws.
4. **Install Cylinder and Spindle:** Insert the Euro profile cylinder and the spindle through their respective holes. Secure the cylinder with its retaining screw, typically located on the edge of the lock body.
5. **Install Strike Plate:** Close the door and mark the position of the latch and deadbolt on the door frame. Chisel out the recess for the strike plate on the door frame, ensuring proper alignment with the latch and deadbolt. Secure the strike plate with screws.
6. **Test Operation:** Test the latch and deadbolt operation with the key from both sides. Ensure smooth engagement and disengagement without binding. Adjust the strike plate or lock body if necessary.



**Figure 2:** This technical drawing provides precise dimensions for the Tesa Assa Abloy 403050AI Mortise Lock, including overall height (175mm), wheelbase (85mm), backset options (40, 50, 60, 70mm), and other critical measurements for accurate installation.

## 5. OPERATING INSTRUCTIONS

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- **Locking:** From either side of the door, insert the key into the cylinder and turn it to extend the deadbolt fully. Remove the key.
- **Unlocking:** From either side of the door, insert the key into the cylinder and turn it to retract the deadbolt fully. Turn the door handle to open the door.
- **Internal Panic Function:** In models featuring the internal panic function (excluding 4030E), the door can be opened from the inside by simply turning the handle, even if the deadbolt is engaged, providing free egress in emergencies.

## 6. MAINTENANCE

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- **Lubrication:** Periodically lubricate the lock cylinder and internal mechanism with a graphite-based lubricant or a silicone spray. Avoid oil-based lubricants as they can attract dust and debris, potentially hindering operation.
- **Cleaning:** Clean the exterior of the lock and faceplate with a soft, damp cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish.
- **Screw Tightness:** Periodically check and tighten all mounting screws on the lock body, faceplate, and strike plate to ensure the lock remains securely fastened and operates correctly.

## 7. TROUBLESHOOTING

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- **Problem:** Key is difficult to turn or gets stuck.  
**Solution:** Lubricate the cylinder with a graphite-based lubricant. Check for any obstructions in the keyway. Ensure the key is not bent or damaged.
- **Problem:** Latch or deadbolt does not retract/extend smoothly.  
**Solution:** Check for proper alignment of the strike plate on the door frame. Ensure mounting screws are not overtightened, which can bind the mechanism. Lubricate the internal mechanism.
- **Problem:** Door rattles when closed.  
**Solution:** Adjust the strike plate position slightly to ensure a snug fit with the latch. Ensure all screws are tightened.

## 8. SPECIFICATIONS

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Feature	Specification
Brand	Tesa Assa Abloy
Model Number	403050AI
Lock Type	Key Lock (Mortise)
Material	Iron
Color	Stainless Steel
Finish Type	Polished
Item Dimensions (L x W x H)	9.53 x 3.74 x 0.98 inches (approx. 242 x 95 x 25 mm)
Item Weight	1 Kilogram
Wheelbase	85 mm
Inlets (Backset Options)	40, 50, 60, 70 mm
Nut Size	8 mm
Special Feature	Security Single Point Push Lock For Doors, Internal Panic Function (except 4030E)
Recommended Use	Wooden Entrance Doors

## 9. WARRANTY AND SUPPORT

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This Tesa Assa Abloy product is covered by the manufacturer's standard warranty. For specific warranty terms, conditions, and duration, please refer to the documentation provided with your purchase or visit the official Tesa Assa Abloy website.

For technical support, troubleshooting assistance, or to make a warranty claim, please contact Tesa Assa Abloy customer service directly. Retain your proof of purchase, such as a receipt or invoice, as it may be required for warranty services.

**Contact Information:** Please refer to the official Tesa Assa Abloy website or product packaging for the most current contact details.

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