

## Yale 105023040002201

# Yale 500 Series Safety Cylinder 105023040002201 Instruction Manual

Model: 105023040002201

Brand: Yale

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## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Yale 500 Series Safety Cylinder, model 105023040002201. Please read these instructions carefully before proceeding to ensure proper function and security.

## 2. PRODUCT OVERVIEW

The Yale 500 Series Safety Cylinder is a robust locking mechanism designed for enhanced door security. It features a nickel-plated finish and is constructed from durable brass.

### 2.1 Key Features

- **Type:** Euro Profile Cylinder
- **Material:** Brass
- **Finish:** Nickel-plated
- **Lock Type:** Key Lock
- **Security:** Features anti-pick pins for enhanced resistance against manipulation.
- **Dimensions:** 30 x 40 mm

### 2.2 Included Components

- 1 x Yale 500 Series Safety Cylinder
- Keys (quantity may vary)
- Wrenches (for installation)

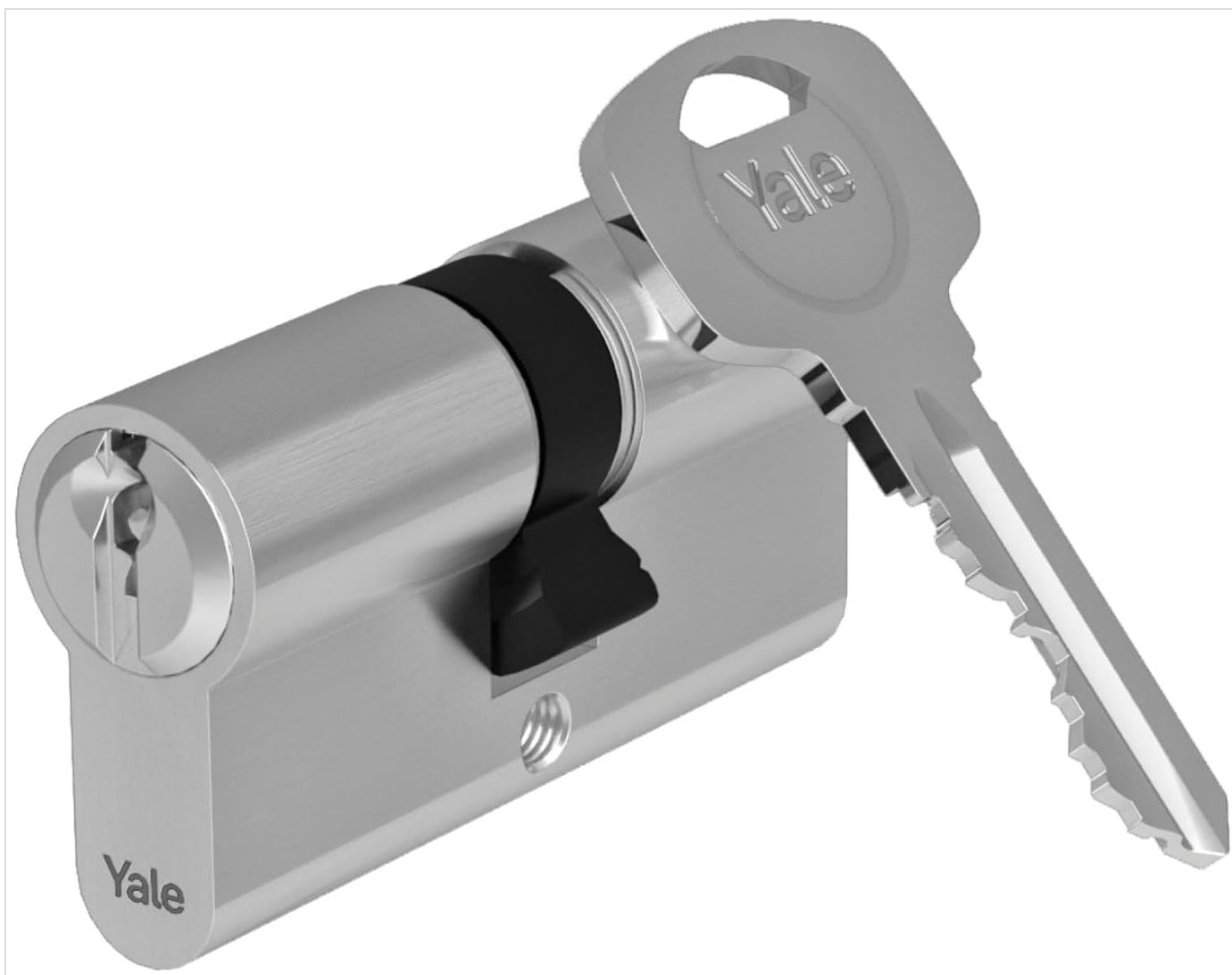


Figure 1: Yale 500 Series Safety Cylinder with key. This image shows the nickel-plated cylinder with a single key inserted into the keyway, ready for operation.



Figure 2: Yale 500 Series Safety Cylinder with multiple keys. The cylinder is shown alongside a set of three identical keys, highlighting the complete package.



Figure 3: Internal mechanism of the 500 Series cylinder. This cutaway view illustrates the internal pin tumblers, specifically pointing out the 'Anti pick' pins designed to resist lock picking attempts.

# Double Euro Profile Cylinder



Figure 4: Double Euro Profile Cylinder. This image displays the cylinder with a key inserted, emphasizing its double-sided Euro profile design, allowing key operation from both sides.

## 3. SETUP AND INSTALLATION

Proper measurement and installation are crucial for the security and functionality of your Yale cylinder. Follow these steps carefully.

### 3.1 How to Measure Your Door Cylinder

Before replacing your cylinder, accurately measure the existing one to ensure compatibility. Measurements are taken from the center of the fixing screw hole to each end of the cylinder.

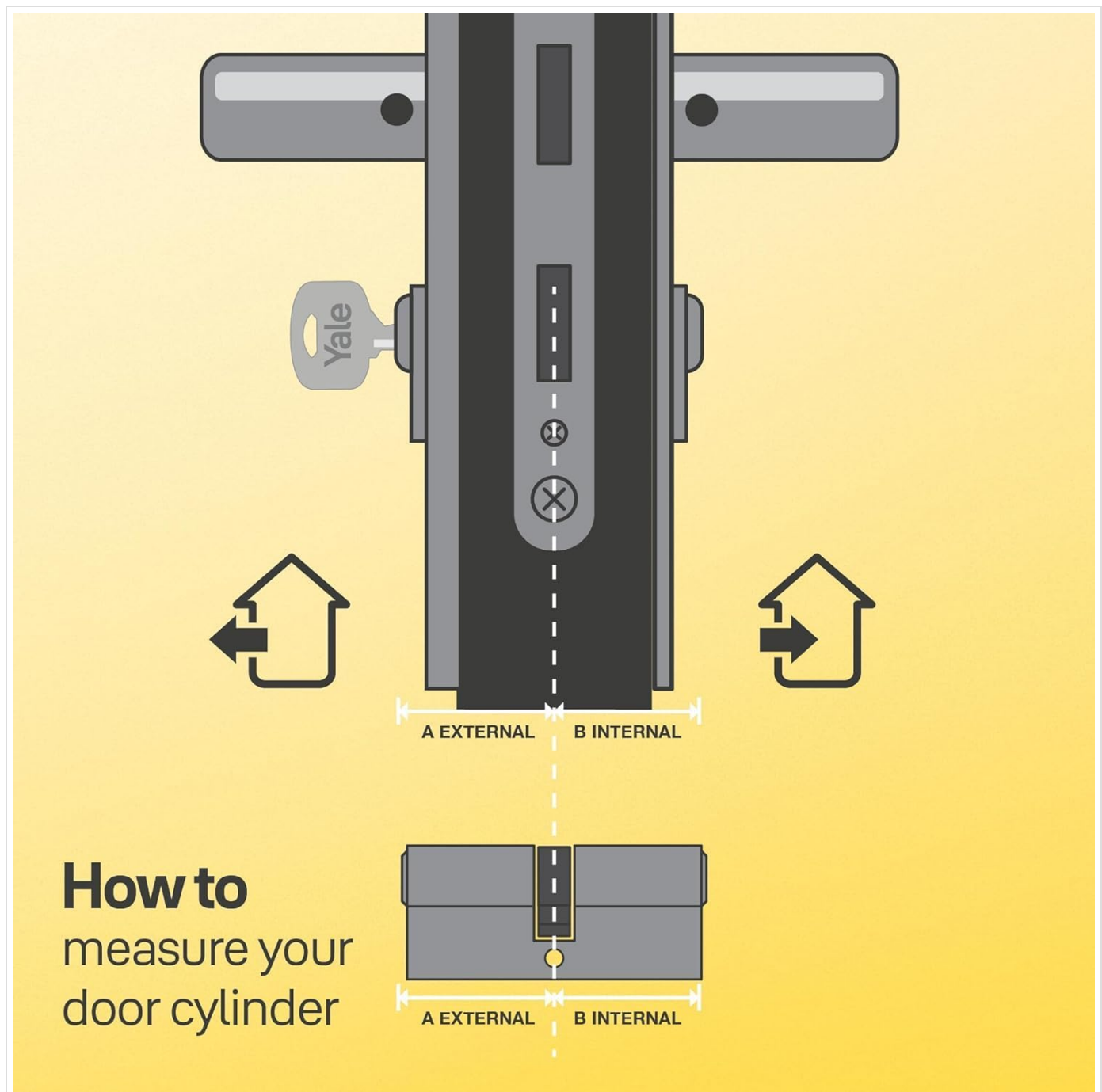


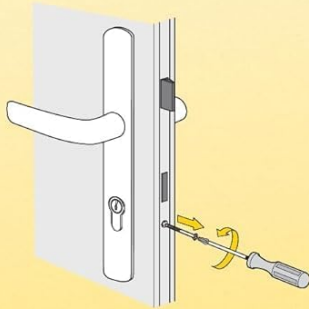
Figure 5: Guide for measuring a door cylinder. This diagram illustrates how to measure the external (A) and internal (B) dimensions of a door cylinder from the central fixing screw.

1. Open the door and locate the fixing screw on the side of the door, typically below the latch.
2. Measure from the center of this screw hole to the outside edge of the cylinder (Dimension A - External).
3. Measure from the center of the screw hole to the inside edge of the cylinder (Dimension B - Internal).
4. Ensure your new Yale cylinder matches these dimensions (e.g., 30 x 40 mm).

### 3.2 How to Change Your Door Cylinder

Follow these steps to replace an existing door cylinder with your new Yale 500 Series Safety Cylinder.

# How to change your door cylinder



## Step 1.

Remove (but keep safe) the screw to release the cylinder.



## Step 2.

Remove the old cylinder. Use the key to align the cam with the cylinder housing in order to pull out the cylinder



## Step 3.

Insert the new Yale cylinder and turn the key to check alignment



## Step 4.

Check if the key turns and the lock operates correctly.



## Step 5.

Replace the screw to secure the cylinder

Figure 6: Step-by-step guide to changing a door cylinder. This visual guide demonstrates the five key steps involved in removing an old cylinder and installing a new Yale cylinder.

1. **Step 1: Remove the fixing screw.** Locate and remove the screw on the side of the door that secures the cylinder. Keep this screw safe.
2. **Step 2: Remove the old cylinder.** Insert a key into the old cylinder and turn it slightly (approximately 15-20 degrees) to align the cam with the cylinder housing. This will allow the cylinder to slide out.
3. **Step 3: Insert the new Yale cylinder.** Insert a key into the new Yale cylinder and turn it slightly to align the cam. Slide the new cylinder into the door. Ensure it sits flush.
4. **Step 4: Check alignment and operation.** With the key still in the new cylinder, turn it to check that the lock operates smoothly and the cam rotates correctly.
5. **Step 5: Replace the fixing screw.** Secure the new cylinder by re-inserting and tightening the fixing screw removed in Step 1. Do not overtighten.

## 4. OPERATING INSTRUCTIONS

The Yale 500 Series Safety Cylinder operates as a standard key lock.

- **Locking:** Insert the key fully into the keyway and turn it clockwise until the bolt is extended and the door is securely locked. Remove the key.
- **Unlocking:** Insert the key fully into the keyway and turn it counter-clockwise until the bolt is retracted and the door can be opened. Remove the key.

Ensure the key is fully inserted before turning to prevent damage to the key or cylinder mechanism.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and smooth operation of your cylinder.

- **Cleaning:** Wipe the exterior of the cylinder with a soft, dry cloth. Avoid abrasive cleaners or solvents.
- **Lubrication:** If the key becomes stiff or difficult to turn, apply a small amount of graphite-based lubricant or a specialized lock lubricant into the keyway. Do not use oil-based lubricants as they can attract dirt and cause blockages.
- **Key Care:** Avoid bending or damaging the keys. Store spare keys in a safe place.

6. TROUBLESHOOTING

If you encounter issues with your Yale 500 Series Safety Cylinder, refer to the following common problems and solutions.

| Problem                                   | Possible Cause                                                         | Solution                                                                                                                                            |
|-------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Key is difficult to insert or turn        | Dirt/debris in keyway, worn key, lack of lubrication                   | Clean keyway with compressed air. Apply graphite lubricant. Check if key is bent or damaged; try a spare key.                                       |
| Cylinder does not turn after installation | Cam not aligned, fixing screw overtightened, incorrect cylinder size   | Ensure key is fully inserted and turned slightly to align cam. Loosen fixing screw slightly. Verify cylinder dimensions are correct.                |
| Door does not lock/unlock properly        | Misalignment of door/frame, issue with door mechanism, faulty cylinder | Check door and frame alignment. Inspect the door's internal locking mechanism. If issues persist, contact a professional locksmith or Yale support. |

7. SPECIFICATIONS

| Feature                         | Detail                      |
|---------------------------------|-----------------------------|
| Brand                           | Yale                        |
| Model Name                      | 500 Series Safety Cylinder  |
| Part Number / Item Model Number | 105023040002201             |
| Lock Type                       | Key Lock                    |
| Material                        | Brass                       |
| Finish Type                     | Polished, Nickel-plated     |
| Size                            | 30 x 40 mm                  |
| Product Dimensions (L x W x H)  | 1.1 x 0.59 x 0.75 inches    |
| Item Weight                     | 0.24 Kilograms (8.5 ounces) |

| Feature             | Detail                              |
|---------------------|-------------------------------------|
| Special Feature     | Unlock key, Anti-pick pins          |
| Recommended Uses    | Door                                |
| Included Components | 1 x Euro Profile Cylinder, wrenches |

## 8. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation provided with your purchase or visit the official Yale website. If you require technical assistance or have questions not covered in this manual, please contact Yale customer support.  
**Yale Official Website:** [www.yalehome.com](http://www.yalehome.com)

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**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question