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SOPHIA DK8705R-Classroom-US32D

Instruction Manual

SOPHIA COMMERCIAL HEAVY DUTY MORTISE LOCKSET

Model: DK8705R-Classroom-US32D

1. PRODUCT OVERVIEW

The SOPHIA Commercial Heavy Duty Mortise Lockset (Model DK8705R-Classroom-US32D) is a robust and reliable door lever lock designed for commercial and residential applications, specifically featuring a classroom function. This lockset is non-handed, ensuring versatility for various door configurations. It meets stringent industry standards, including ANSI/BHMA A156.13 Grade 1 certification and UL listing for up to 3 hours fire rating, making it suitable for high-traffic environments requiring enhanced security and durability.



Figure 1: SOPHIA Commercial Heavy Duty Mortise Lockset (Rose/Classroom Function)

Key Features:

- **Classroom Function:** Latchbolt retracted by either side of the door levers unless outside is locked by key. Auxiliary latch deadlocks latchbolt when door is closed and the inside lever can be opened at any time for emergency egress.
- **High-Quality Construction:** Made from durable Stainless Steel and Aluminum with a Satin Chrome (32D) finish.
- **Versatile Fit:** Designed for 1-3/8" to 1-3/4" (35mm to 44mm) doors, fitting 1-1/2" to 2" thick doors, with a standard 2-3/4" backset. Non-handed design for universal application.
- **Certified Durability:** ANSI/BHMA A156.13 - Grade 1 certified (exceeds 1,000,000 cycles) and UL listed for up to 3 hours fire rating.
- **ADA Compliant:** Meets ADA A117.10 accessible design standards.

- **Robust Components:** Features 304 Stainless steel, machined and threaded hubs, and locking nuts for secure installation.

Product Specifications:

SOPHIA Door Hardware Mortise Lockset DK8705 for Storeroom Function

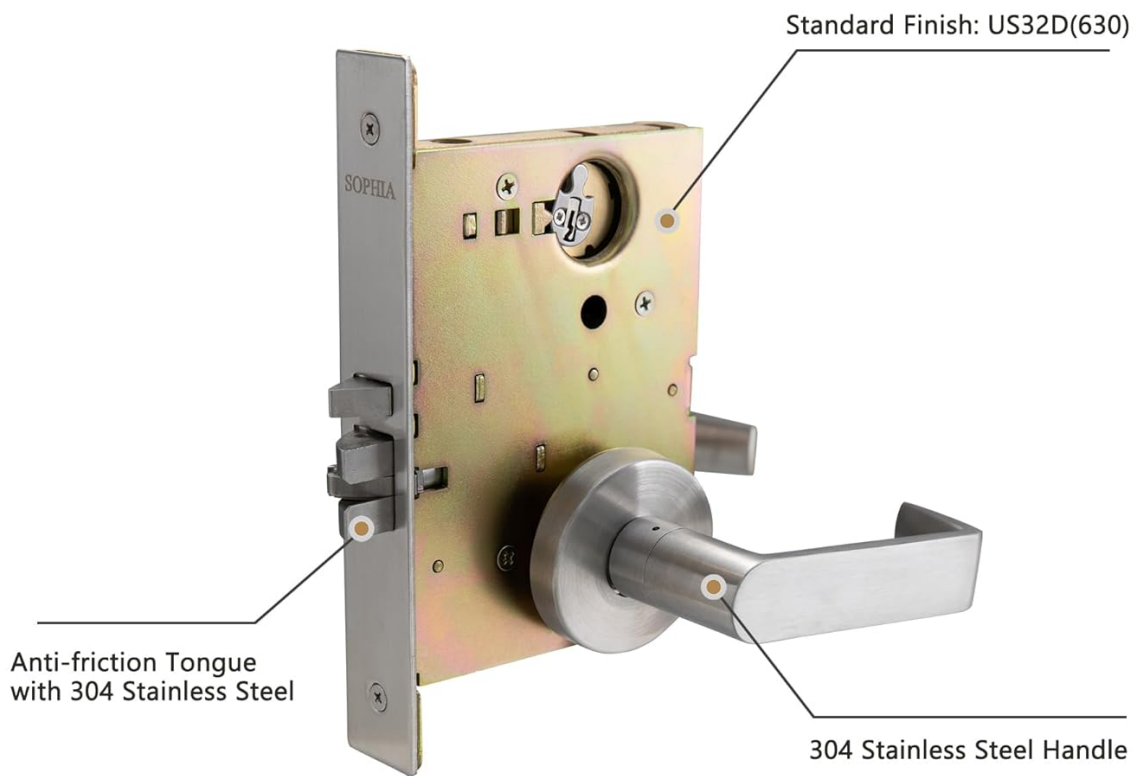


Figure 2: Key components and features of the Mortise Lockset

Specification	Detail
Brand	SOPHIA
Model Number	DK8705R-Classroom-US32D
Material	Stainless Steel, Aluminum
Color	Satin Chrome
Product Dimensions	7.99"L x 4.25"W
Item Weight	6.56 pounds
Lock Type	Deadbolt Lock (Mortise)

Specification	Detail
Hand Orientation	Non-Handed
Certification	ANSI/BHMA A156.13 - Grade 1, UL Listed (3 hours fire rated), ADA A117.10
Backset	2-3/4" (70mm)
Door Thickness	1-3/8" to 1-3/4" (35mm to 44mm), fits 1-1/2" to 2" thick doors
Included Components	Lockset, Screws, Bolts, User-friendly Instructions, ANSI Strike, Reversible Latch Unit, 2 Pre-cut Keys

2. PACKAGE CONTENTS

Carefully unpack the box and verify that all the following components are included. If any parts are missing or damaged, please contact SOPHIA customer support immediately.

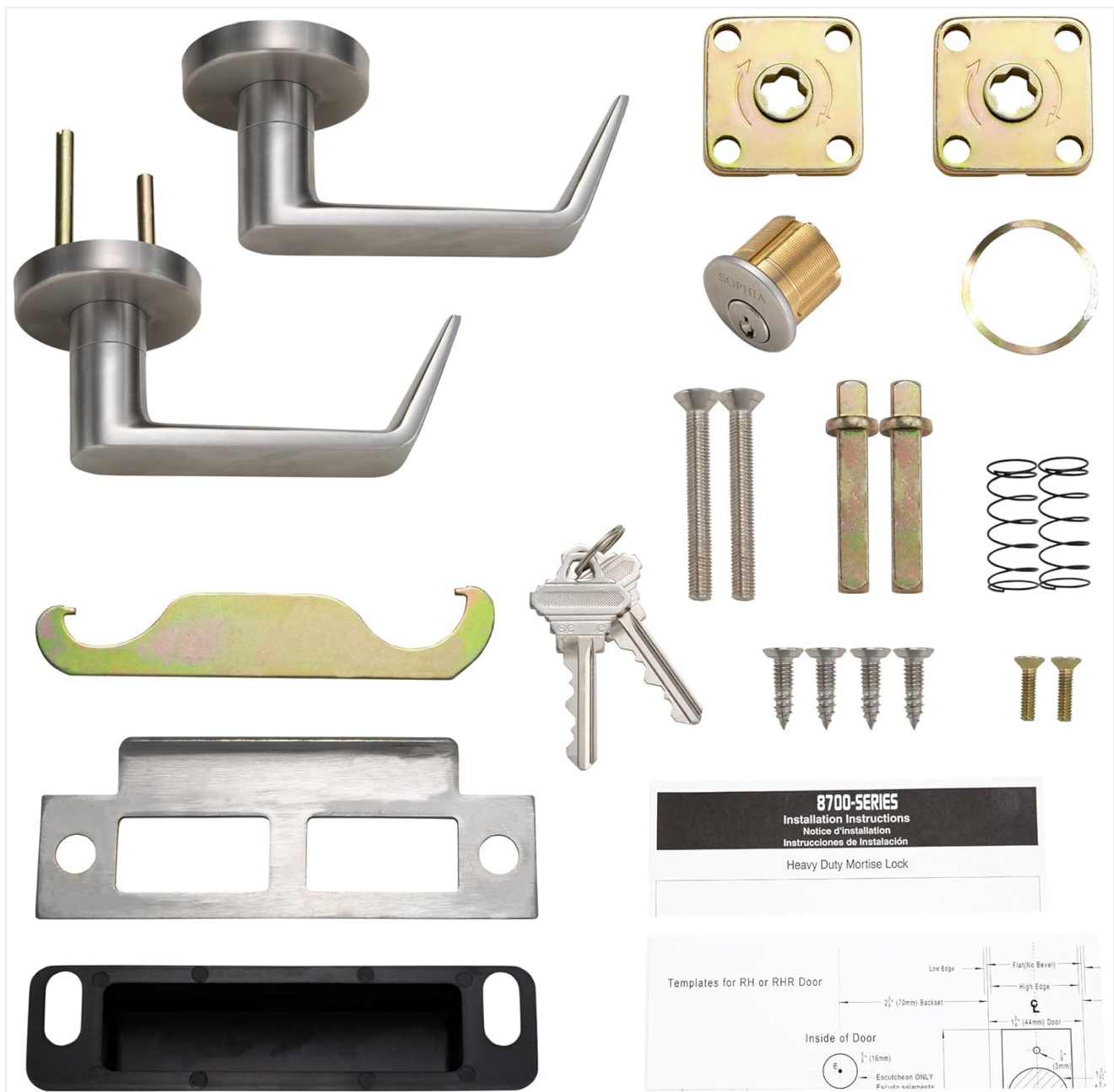


Figure 3: Complete package contents

- 1 x Mortise Lockset Body

- 2 x Door Levers (Interior and Exterior)
- 1 x Escutcheon Plate (Rose style)
- 1 x ANSI Strike Plate
- 1 x Reversible Latch Unit
- 2 x Pre-cut Keys
- Mounting Screws and Bolts
- Installation Template
- User-friendly Instructions (this manual)

3. SAFETY INFORMATION

Please read and understand all safety instructions before attempting to install or operate this product. Failure to follow these instructions may result in injury or damage to the product or property.

- Always wear appropriate personal protective equipment (PPE), such as safety glasses and gloves, during installation.
- Ensure the door is properly supported and secured before beginning installation to prevent accidental movement.
- Use only the tools specified in this manual.
- Keep small parts and packaging materials away from children to prevent choking hazards.
- Do not modify the lockset components. Any modifications may void the warranty and compromise security.
- If you are unsure about any step of the installation process, consult a qualified locksmith or professional installer.

4. INSTALLATION GUIDE

This section provides detailed instructions for installing your SOPHIA Mortise Lockset. For a visual guide, please refer to the official installation video below.



Video 1: Heavy Duty Commercial & Residential Mortise Lockset Installation Guide. This video demonstrates the complete installation process from preparing the door to final assembly and testing.

4.1. Before You Begin

- Ensure your door is prepped for a mortise lockset (161 door prep or regular 2-1/8" bore prep).
- Verify door thickness is within the specified range (1-3/8" to 1-3/4" or 1-1/2" to 2").
- Confirm the backset is 2-3/4" (70mm).

4.2. Tools Required

- Phillips Head Screwdriver
- Measuring Tape
- Pencil
- Drill (if new door prep is needed)
- Chisel (if new door prep is needed)

4.3. Step-by-Step Installation

1. **Install Mortise Lock Body:** Slide the mortise lock body into the prepared mortise pocket on the door edge. Secure it with the provided screws. *(Refer to Video 1, 0:07-0:15)*
2. **Install Cylinder:** Insert the key cylinder into the designated opening on the mortise body. Use the key to ensure it turns smoothly and then secure it. *(Refer to Video 1, 0:16-0:26)*
3. **Assemble Spindle and Spring:** Place the spring and spindle into the square hole of the lever base. Ensure the spring is correctly seated. *(Refer to Video 1, 0:27-0:45)*
4. **Install Exterior Lever Assembly:** Attach the exterior lever assembly, ensuring the spindle engages with the mortise body. Secure it with the long through-bolts. *(Refer to Video 1, 0:46-0:48)*
5. **Assemble Interior Lever Components:** Insert the interior spindle and spring components into the corresponding holes. *(Refer to Video 1, 0:49-1:05)*
6. **Install Interior Lever Assembly:** Attach the interior lever assembly, aligning it with the exterior components and securing it with screws. *(Refer to Video 1, 1:06-1:26)*
7. **Install Strike Plate:** Position the strike plate on the door frame, aligning it with the latch and deadbolt. Secure it with screws. *(Refer to Video 1, 1:27-1:48)*
8. **Test Operation:** Test the lockset's function from both sides of the door. Ensure the levers retract the latch, the key locks and unlocks the outside lever, and the inside lever always allows egress. *(Refer to Video 1, 1:49-1:56)*

5. OPERATING INSTRUCTIONS

5.1. Classroom Function Explained

The SOPHIA Mortise Lockset is configured with a classroom function, which means:

- The latchbolt can always be retracted by the interior lever, allowing for emergency egress at any time.
- The exterior lever retracts the latchbolt unless it has been locked by the key.
- The key operates the exterior lever to lock or unlock it.
- When the door is closed, the auxiliary latch deadlocks the latchbolt, preventing manipulation from the outside.

5.2. Locking and Unlocking

- **To Lock from Exterior:** Insert the key into the exterior cylinder and turn it to engage the locking mechanism. The exterior lever will then be rigid and will not retract the latchbolt.
- **To Unlock from Exterior:** Insert the key into the exterior cylinder and turn it to disengage the locking mechanism. The exterior lever will then retract the latchbolt.
- **From Interior:** The interior lever always retracts the latchbolt, allowing for immediate exit. The interior lever does not control the locking state of the exterior lever.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your SOPHIA Mortise Lockset.

- **Cleaning:** Wipe the lockset surfaces periodically with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the finish.
- **Lubrication:** Apply a small amount of graphite lubricant or a silicone-based spray to the key cylinder and latch mechanism annually to ensure smooth operation. Do not use oil-based lubricants as they can attract dirt.
- **Screw Tightness:** Periodically check all mounting screws and tighten them if necessary to prevent loosening.

due to frequent use.

- **Function Check:** Regularly test the lockset's function (levers, key, deadbolt) to ensure all mechanisms are operating correctly.

7. TROUBLESHOOTING

If you encounter issues with your lockset, refer to the table below for common problems and their solutions.

Problem	Possible Cause	Solution
Outside lever does not lock/unlock with key.	Cylinder not fully engaged or misaligned; internal mechanism issue.	Ensure cylinder is properly installed and secured. Re-check installation steps for cylinder and lever assembly. If issue persists, contact support.
Lever (handle) does not move or retract latch.	Spindle misalignment; internal spring issue; debris in mechanism.	Verify spindle is correctly inserted and aligned. Check for any obstructions. Lubricate the mechanism. If the issue is a broken spring, contact support.
Latchbolt does not extend or retract smoothly.	Misalignment with strike plate; dirt/debris in latch mechanism.	Check strike plate alignment and adjust if necessary. Clean and lubricate the latchbolt mechanism.
Lockset feels loose on the door.	Mounting screws are loose.	Tighten all visible mounting screws on both sides of the lockset.

8. WARRANTY AND SUPPORT

8.1. Warranty Information

All SOPHIA products are guaranteed for 1-5 years. This specific lockset comes with a **1-year Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

8.2. Customer Support

For further assistance, technical support, or warranty inquiries, please visit the official SOPHIA website or contact their customer service department. You can also refer to the SOPHIA store on Amazon for additional resources.

[Visit the SOPHIA Store on Amazon](#)