

MS1850S/MS1851S Installation Guide

Maximum Security Storefront Deadlock

PRODUCT OVERVIEW

The Adams Rite MS1850S and MS1851S are maximum security hookbolt deadlocks designed for aluminum storefront doors. These heavy-duty locks provide reliable security for retail, commercial, and institutional applications. The MS1851S variant includes additional security features for maximum protection.

DOOR PREP DIMENSIONS

Specification	Measurement
Mortise Pocket Depth	31/32" (Ø)
Mortise Pocket Height	4-7/8"
Mortise Pocket Width	Standard
Face Plate Width	1"
Face Plate Height	8"
Backset (Standard)	1-1/8" (MS1850S-150)
Backset (Alternative)	31/32" (MS1850S-050)

REQUIRED TOOLS & MATERIALS

Tool/Material	Purpose
Drill Press or Mortising Machine	Bore mortise pocket (31/32")
Spade Bits or Auger Bits	Door face boring
Hacksaw or Reciprocating Saw	Strike preparation
Measuring Tape & Marking Gauge	Accurate dimension layout
Screwdriver Set	Fastening face plate and strike
Brad or Center Punch	Mark boring locations
Sandpaper/Files	Smooth rough edges

INSTALLATION OVERVIEW

Step 1: Door Preparation

Measure and mark the center line for the mortise pocket. Use a template to ensure accurate placement. The standard backset is 1-1/8" from the edge of the door.

Step 2: Mortise Boring

Bore the mortise pocket to 31/32" diameter and 4-7/8" height. Ensure the mortise is square and to depth. Use a drill press for consistent results.

Step 3: Face Plate Installation

Insert the lock body into the mortise. Install the face plate (1" x 8") flush with the door surface. Use provided screws to secure.

Step 4: Cylinder Installation

Install the deadbolt cylinder (1-1/4" mortise or Adams Rite standard cam) into the lock body. Ensure proper engagement and smooth operation.

Step 5: Strike Preparation

Install the strike on the frame aligned with the bolt. Secure with appropriate fasteners suitable for your frame material (aluminum, wood, or steel).

Step 6: Testing & Adjustment

Test the bolt operation. Verify smooth engagement with the strike. Make any necessary adjustments to bolt alignment.

COMPATIBLE CYLINDERS

Cylinder Type	Description
Adams Rite Standard Cam	Factory default, optimized for MS1850S/MS1851S
1-1/4" Mortise Cylinder	Interchangeable, accepts standard mortise pins

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