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# E-7500 Mortise Lock SS-7500 Mortise Lock

## VON DUPRIN®

Electrical Wiring

Installation Instructions

### OPERATION:

The E-7500 Mortise Lock has an electric lock solenoid and two monitor switches. The SS-7500 Mortise Lock has only the two monitor switches.

The solenoid is used to electrically lock or unlock the mechanical trim. The fail secure version requires power to unlock the trim. The fail safe version requires power to lock the trim.

The latch bolt monitor switch S1 indicates the auxiliary bolt is depressed (door closed) and the latchbolt is fully extended (Figure 3).

The trim lock switch S2 indicates whether the mechanical trim inputs are locked or unlocked (Figure 3).

The standard unit is available in either non polarized 12 VDC or 24 VDC operation (must be specified). An optional SO kit is required for AC operation. The SO-12 kit converts 12 VAC to 12 VDC. The SO-24 kit converts 24 VAC to 24 VDC. This equipment must be used in accordance with the National Electric Code.

### INSTALLATION:

1. For device or trim preparation, see their directions.
2. Prepare door for mortise lock (see 7500 Mortise Lock instructions).
3. Install SO kit when using 12 or 24 VAC power supply (Figure 1). For wood fire door, locate SO kit in frame.
4. Wire mortise lock as shown. Leave adequate lengths of wire to make all connections before inserting lock in door.
5. Test operation: Applying power to the solenoid of fail secure lock unlocks the trim. Applying power to the solenoid of fail safe lock locks the trim.
6. Install mortise lock.

**SOLENOID POWER REQUIREMENTS**  
 Yellow solenoid wires: 12 VDC, 0.65 A  
 Black solenoid wires: 24 VDC, 0.34 A

**NOTES**  
 DC input to solenoid is nonpolarized  
 For wood fire door locate SO kit in frame

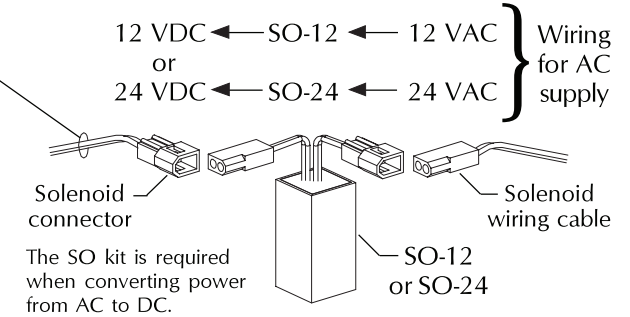
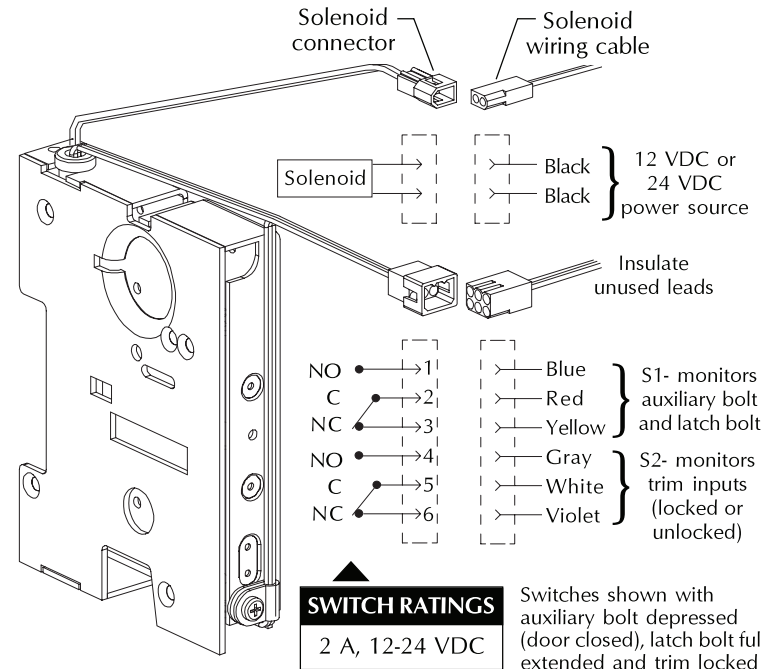


Figure 1



**SWITCH RATINGS**  
 2 A, 12-24 VDC

Switches shown with auxiliary bolt depressed (door closed), latch bolt fully extended and trim locked

Figure 2

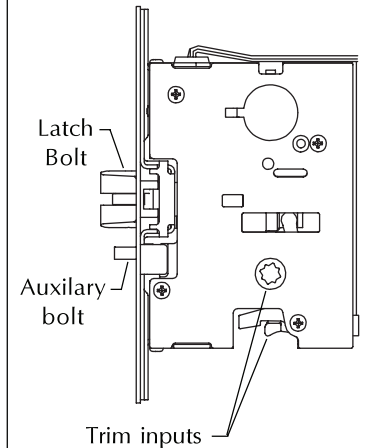


Figure 3

Customer Service

1-877-671-7011 www.allegion.com/us

