

# GEMINI LOCKING SYSTEM INSTALLATION INSTRUCTIONS

## ELECTRICAL SPECIFICATIONS

THE GEMINI OPERATOR'S LABEL SPECIFIES THE CORRECT OPERATING VOLTAGE, AC OR DC, AND THE OPERATING CURRENT.

**12 VOLT @ 1.25 AMP / 24 VOLT @ 0.6 AMP / 115 VOLT @ 0.13 AMP**

## FRAME PREPERATION

CHECK DEPTH OF FRAME FOR CLEARANCE AREA. DEPTH AT STRIKE SHOULD BE  $1\frac{7}{8}'' \pm 1/16''$ . IF DEPTH IS NOT AS SPECIFIED DO NOT ATTEMPT TO INSTALL THE GEMINI OPERATOR.

## 302-03-02 MORTAR GUARD

RECOMMENDED FOR ALL VOLTAGES. MUST BE USED ON MORTAR FILLED FRAMES AND IS REQUIRED ON ALL 115 VOLT APPLICATIONS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ANSI/NFPA 70-1996.

## INSTALLATION

**STEP 1:** CUT HOOKUP CABLE OR WIRES APPROXIMATELY 1" BELOW CUTOUT IN FRAME.

**STEP 2:** IF CABLE IS USED STRIP OUTER JACKET BACK APPROXIMATELY 2".

**STEP 3:** STRIP WIRES BACK 1/4" – 3/8" INCH.

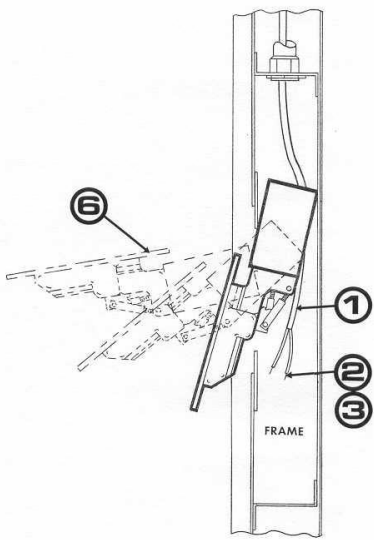
**STEP 4:** CRIMP GEMINI WIRES TO CABLE HOOK-UP WIRE USING STANDARD CRIMP SPLICES. PUSH EXCESS WIRE UP TOWARDS THE TOP OF MORTAR BOX, MAKING SURE WIRES ARE CLEAR OF ALL GEMINI LINKAGE.

**STEP 5:** IF OPTIONAL QUICK CONNECT CABLE IS USED, PASS CONNECTOR THROUGH CONDUIT OF MORTAR BOX UNTIL IT CAN BE REACHED THROUGH THE FRAME PREP OPENING. PLUG THE CONNECTOR ON GEMINI OPERATOR TO MATING CONNECTOR OF CABLE. PUSH EXCESS WIRE UP TOWARDS THE TOP OF MORTAR BOX, MAKING SURE WIRES ARE CLEAR OF ALL GEMINI LINKAGE. TRIM EXCESS CABLE IN CEILING AND TERMINATE TO ELECTRICAL SOURCE.

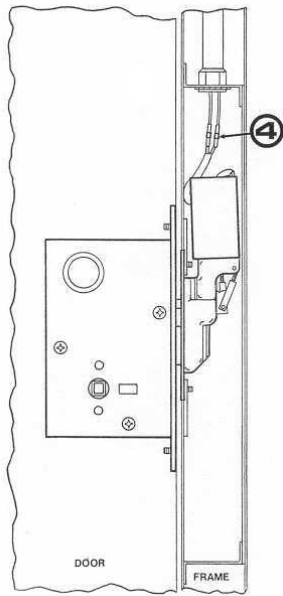
**STEP 6:** INSTALL GEMINI OPERATOR IN FRAME OPENING AS SHOWN. SECURE WITH SCREWS PROVIDED. USE SHORT SCREW ON UPPER MOUNTING POSITION.  
**NOTE:** IF FULL STRIKE IS USED, GEMINI OPERATOR MAY BE PUSHED STRAIGHT INTO FRAME PREP.

**STEP 7:** TO REMOVE FAIL SAFE (POWER LOCK) OPERATORS FROM THE FRAME PLACE A SCREWDRIVER BEHIND THE GEMINI OPERATOR AND MOVE THE PLUNGER FORWARD UNTIL IT IS FLUSH WITH THE STRIKEPLATE. THE OPERATOR MAY THEN BE LOWERED OUT OF THE FRAME PREP.

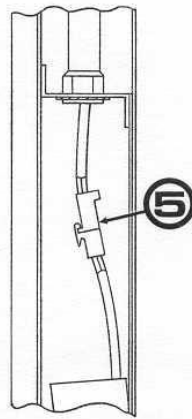




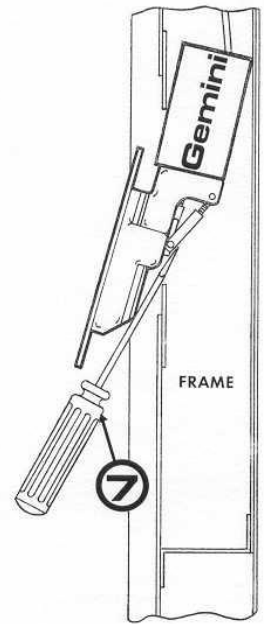
STEPS 1, 2, 3 & 6



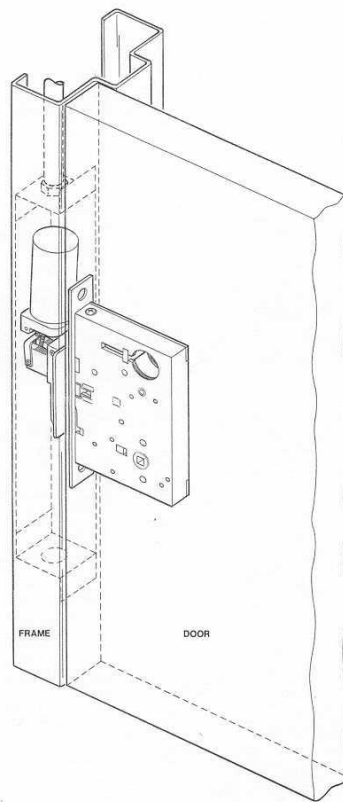
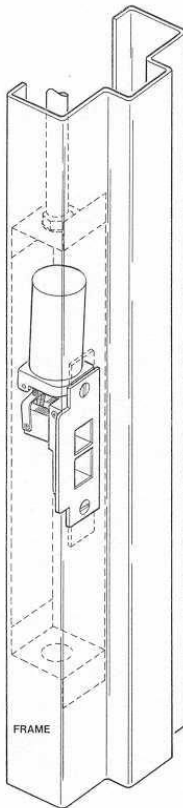
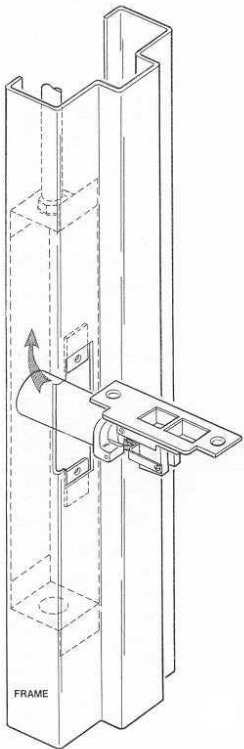
STEP 4



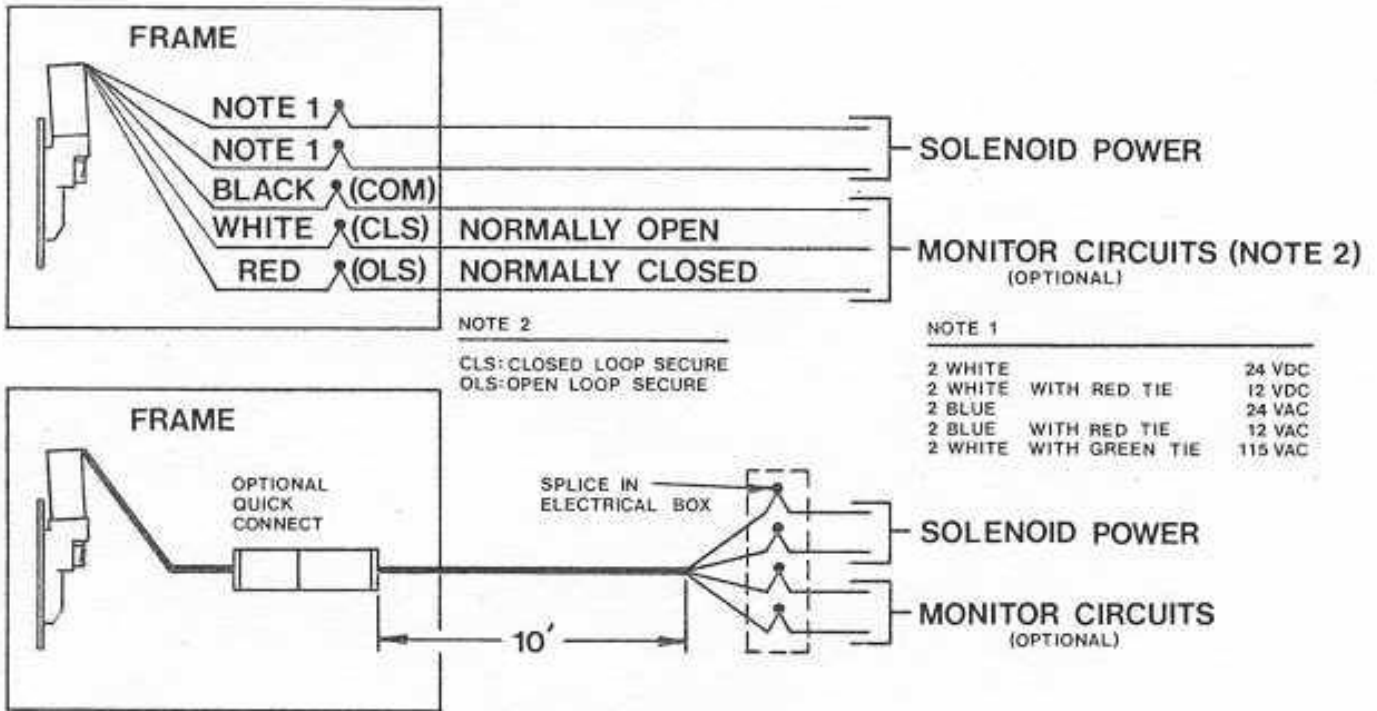
STEP 5



STEP 7



## TYPICAL WIRING DIAGRAM – STANDARD GEMINI



## TYPICAL WIRING DIAGRAM – GEMINI WITH QUICK CONNECT OPTION

### ADJUSTMENT AND TROUBLE SHOOTING

FOR THE GEMINI SYSTEM TO PERFORM PROPERLY, THE MAIN LATCH MUST DROP INTO THE STRIKEPLATE HOLE FREELY. THE AUXILIARY LATCH MUST DROP FREELY INTO THE GEMINI PLUNGER HOLE. IF THE LATCH IS TOO HIGH OR LOW, ADJUSTMENTS TO THE DOOR MUST BE MADE. IF THE MAIN LATCH DOES NOT CLEAR THE STRIKE IN A LATERAL DIRECTION, THE STRIKE OPENING MAY BE FILED SLIGHTLY.

#### **DO NOT FILE THE PLUNGER OPENING IN THE GEMINI OPERATOR!**

IF THE PLUNGER FAILS TO EXTEND ON FAIL SAFE (PL) UNITS OR TO RETRACT ON FAIL SECURE (PUL) UNITS, CHECK WIRING AND CONFIRM THAT GEMINI OPERATOR HAS THE PROPER VOLTAGE  $\pm 10\%$ .

**THE LINKAGE THAT CONNECTS THE PLUNGER TO THE SOLENOID AND HOUSING ARE NOT FIELD ADJUSTABLE. BREAKING SEALS MAY VOID WARRANTY.**



2720 CLARK AVE., ST. LOUIS, MO 63103 (800) 753-5558

REV. 12/2017

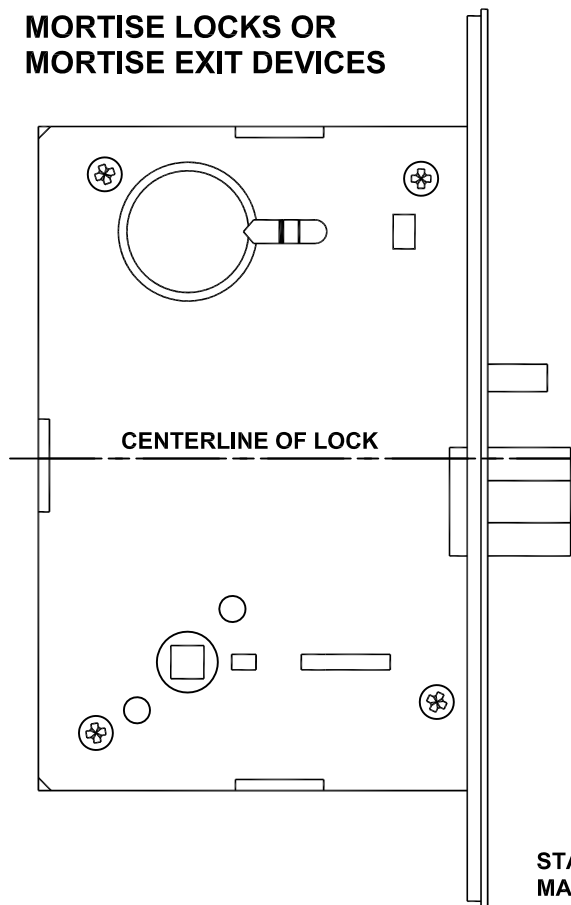
# 8500-FULL

## GEMINI FULL STANDARD FRAME PREPERATION TEMPLATE

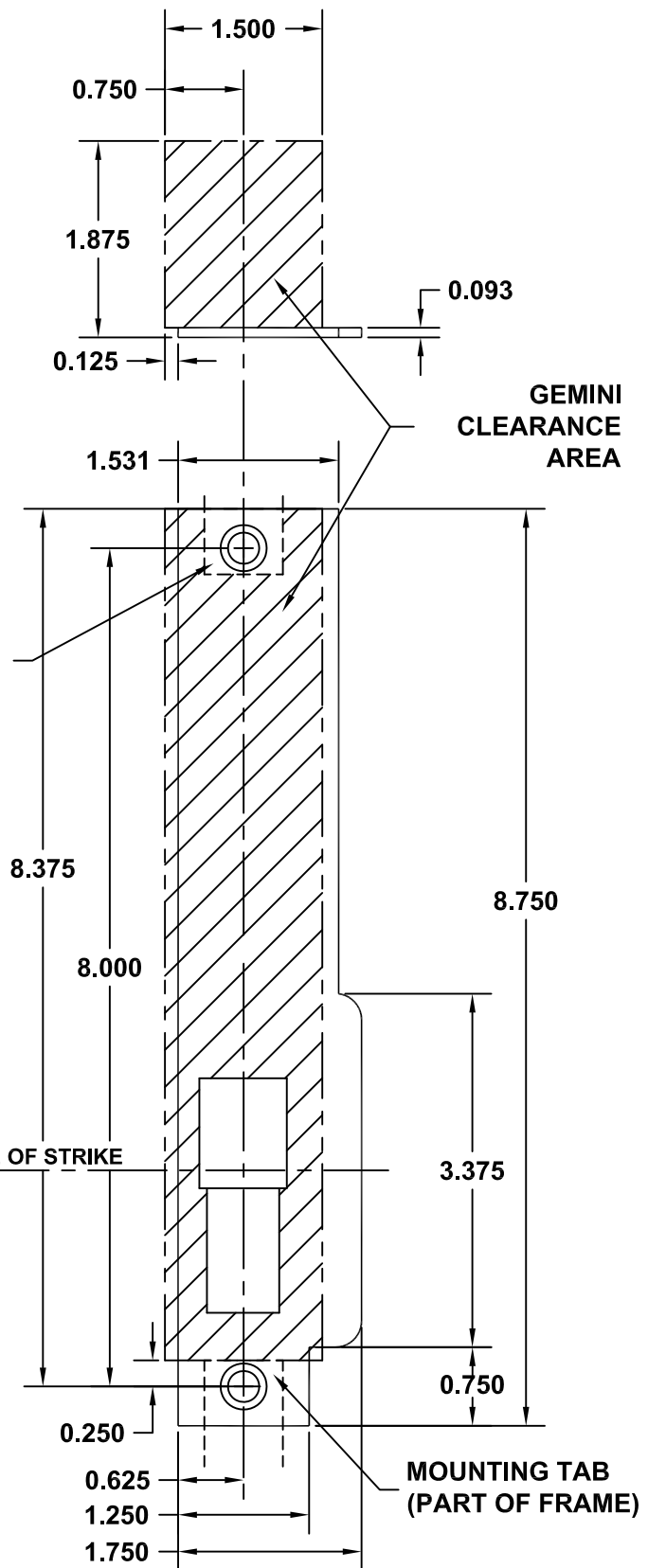
FOR USE WITH NEW AND EXISTING FRAMES  
AND OTHER SPECIAL APPLICATIONS.  
BOTTOM OF STRIKE PLATE CONFORMS TO  
ANSI. PREPARE FRAME TO DIMENSIONS  
SHOWN.

TEMPLATE SHOWN FOR RH/LHR  
OPPOSITE FOR LH/RHR

MORTISE LOCKS OR  
MORTISE EXIT DEVICES



MOUNTING  
TAB (PART  
OF FRAME)



STANDARD ANSI OFFSET 3/8". USE  
MANUFACTURERS ANSI TEMPLATE FOR  
LOCK AND STRIKE LOCATION.

