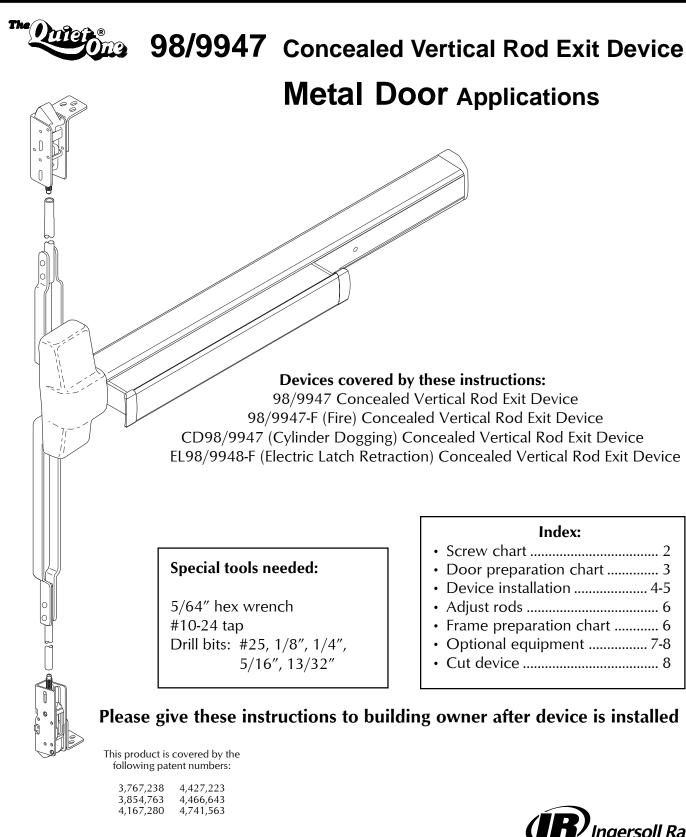


Installation Instructions



Metal Door Applications

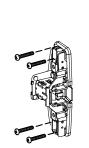
Devices covered by these instructions: 98/9947 Concealed Vertical Rod Exit Device 98/9947-F (Fire) Concealed Vertical Rod Exit Device CD98/9947 (Cylinder Dogging) Concealed Vertical Rod Exit Device EL98/9948-F (Electric Latch Retraction) Concealed Vertical Rod Exit Device

Index:

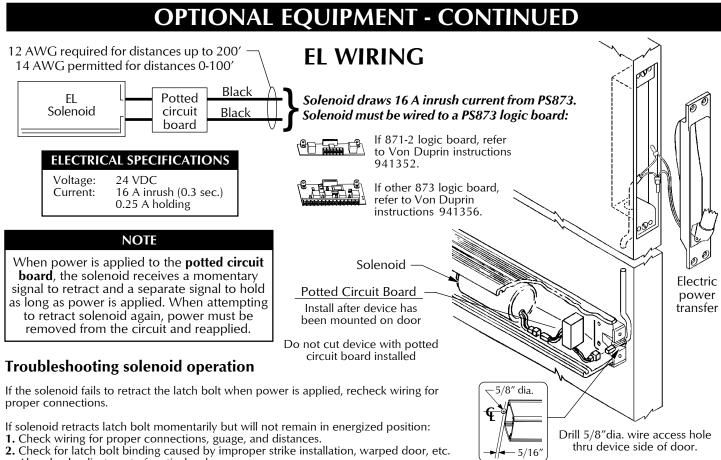
•	Screw chart 2
•	Door preparation chart 3
•	Device installation 4-5
•	Adjust rods 6
•	Frame preparation chart 6
•	Optional equipment7-8
•	Cut device 8



SCREW CHART



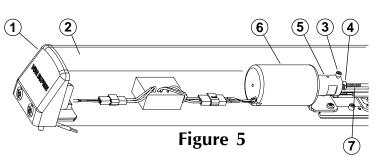
	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Sex bolts (1-3/4" door) ————————————————————————————————————
B	() () () () () () () () () ()	Sex bolts (1-3/4" door)
G ;	#10-16 X 3/8" Thread cutting	——— End cap
D :	#10-32 X 1/4″	Bracket to latch
B	#10-24 X 1/2"	Bracket to door
G	Rod adjusting screw ———	——— Retaining clip
G	() #8-32 X 5/16″	Retaining clip
	#10-24 X 1/2"	338 strike
	#10-24 X 1-1/2"	Ratchet release
	#8-18 x 3/8" Thread cutting —	——— Center case cover



Also check adjustment of vertical rods.

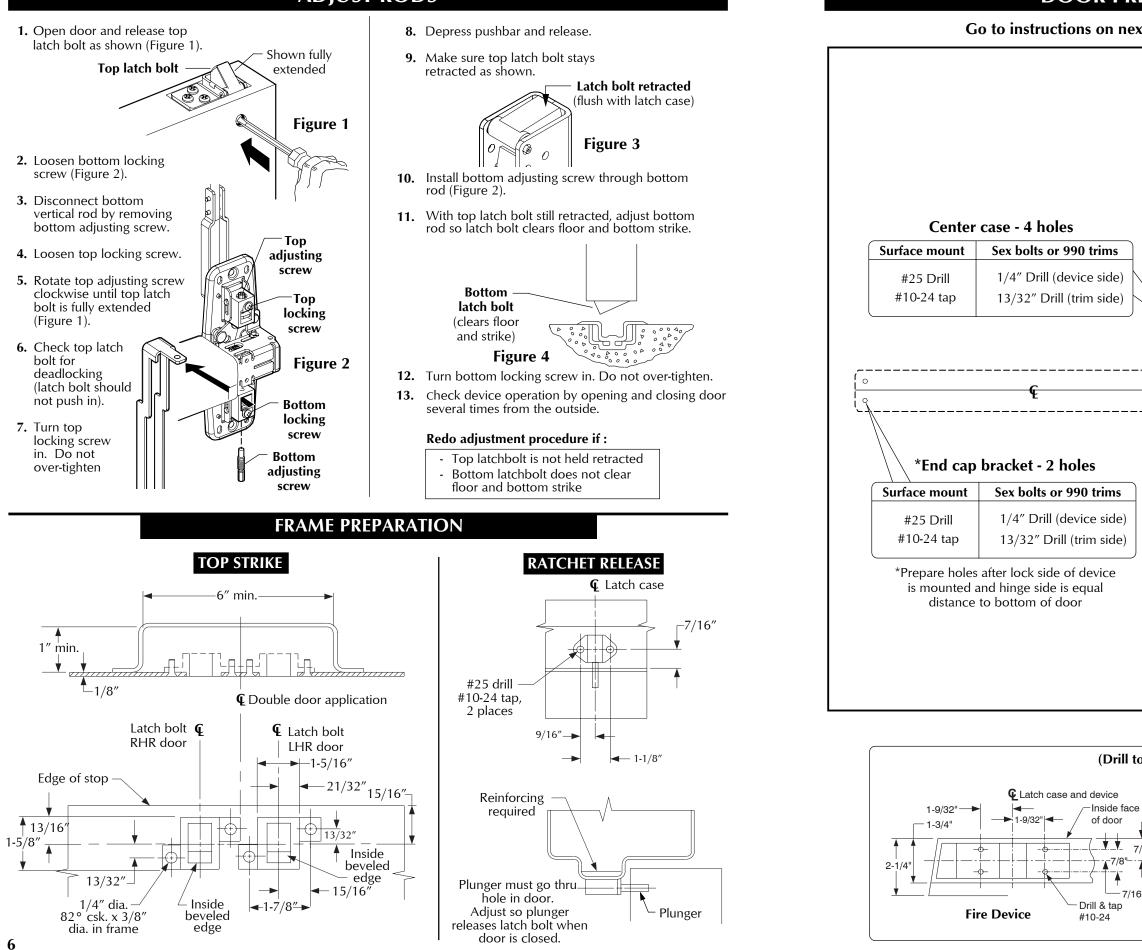
EL ADJUSTMENT PROCEDURE

- **A.** Check for proper function:
- 1. Make sure device is not dogged
- 2. Depress pushbar and make sure latch bolts retracts and extends fully (see page 6 Figures 1 & 3).
- 3. Electrically energize solehoid and hold. 4. Check latch bolt(s) for full retraction (must
- clear strike (see page 6 Figures 1 & 3). 5. Release solenoid and check latch bolt
- extension (see page 6 Figures 1 & 3). 6. Continue to Section B if device does not function electrically.
- **B.** Determine if dogging rod adjustment is too long or short: 1. The dogging rod adjustment is too **long** if latch bolt does not retract and clear strike (see Section C for adjustment).
- 2. The dogging rod adjustment is too **short** if latch bolt does not fully extend **or** latch bolt fully retracts but solenoid releases while energized (see Section D for adiustment).
- C. Adjust solenoid if dogging rod is too long (see Figure 5):
 1. Remove end cap ① and dogging cover ②. **2.** Loosen cap screw ③.
 - 3. Hold plunger (5) depressed in solenoid housing (6). **Note:** Push hard against plunger ⁽⁵⁾ to overcome
 - an internal spring in solenoid housing ©. 4. Turned threaded bushing ④ in to shorten dogging
 - rod ⑦ so latch bolt fully retracts. 5. Tighten cap screw 3.
 - **Note:** Cap screw ③ must be tightened against flat on threaded bushing ④. Apply a few drops of Loc-Tite 222 to threads of cap screw 3.
 - **6.** Replace dogging cover ⁽²⁾ and end cap ⁽¹⁾.
 - 7. Return to Section A to check for proper function.



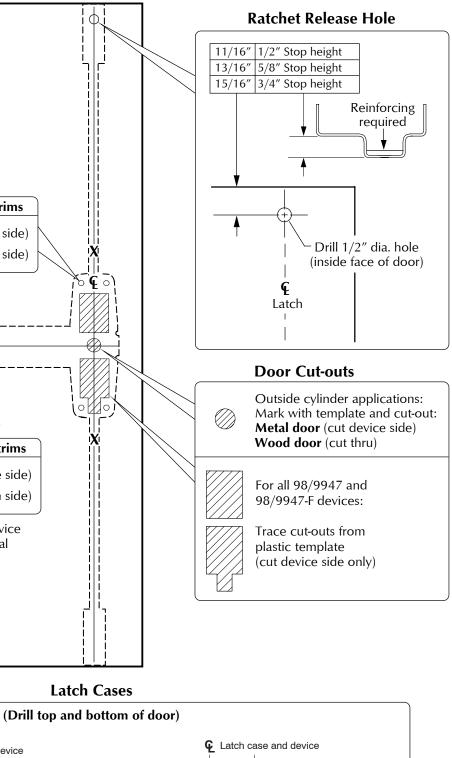
- D. Solenoid adjustment if dogging rod adjustment is too **short** (see Figure 5):
 - 1. Remove end cap ① and dogging cover ②.
- 2. Loosen cap screw ③.
- 3. Hold plunger (5) depressed in solenoid housing (6).
- **4.** Turn threaded bushing ④ out to lengthen dogging rod \bigcirc so plunger \bigcirc just bottoms in solenoid housing \bigcirc and latch bolt is fully retracted. **Note:** Push hard against plunger (5) to overcome an internal spring in solenoid housing 6.
- 5. Tighten cap screw ③. **Note:** Cap screw ③ must be tightened against flat on threaded bushing . Apply a few drops of Loc-Tite 222 to threads of cap screw 3. **6.** Replace dogging cover ⁽²⁾ and end cap ⁽¹⁾.
- 7. Return to Section A to check for proper function.

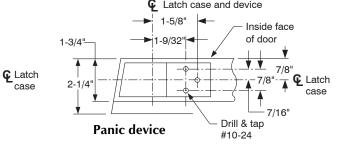
ADJUST RODS



DOOR PREPARATION CHART

Go to instructions on next page before using preparation chart





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