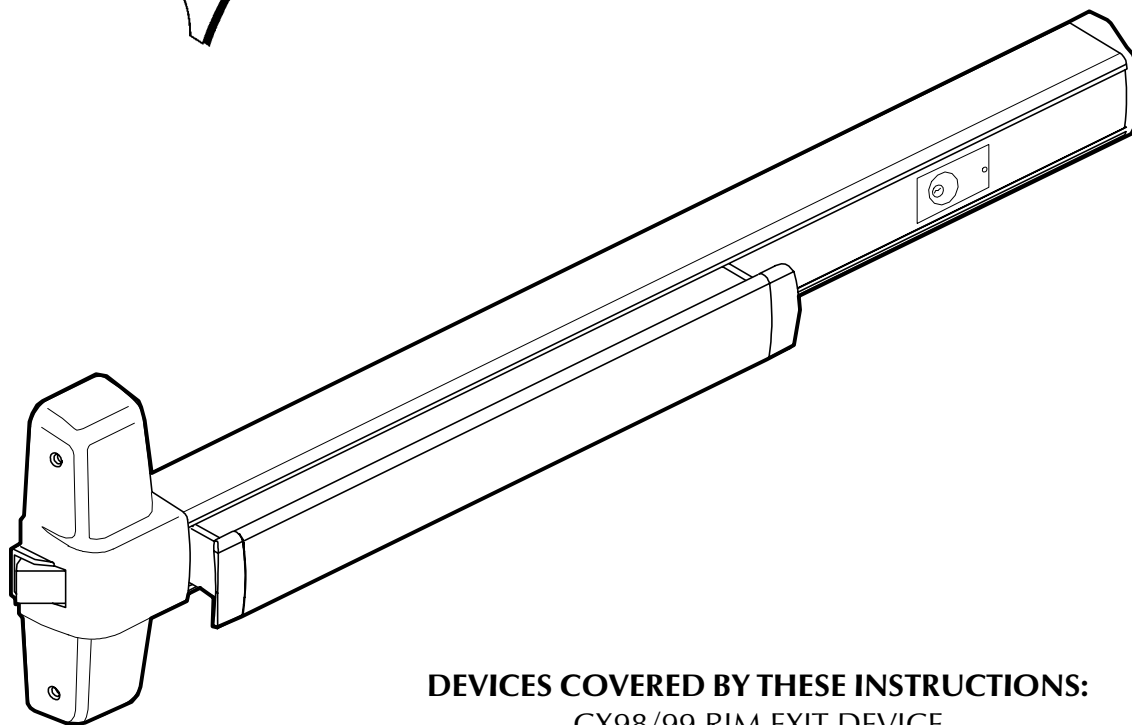


VON DUPRIN®

INSTALLATION INSTRUCTIONS

CX98/99 SERIES RIM DEVICE



DEVICES COVERED BY THESE INSTRUCTIONS:

- CX98/99 RIM EXIT DEVICE
- CX98/99-F RIM EXIT DEVICE

SPECIAL TOOLS NEEDED:

- 5/64" HEX WRENCH
- #10-24 TAP
- DRILL BITS: #25, 1/8", 1/4",
5/16", 13/32"

INDEX:

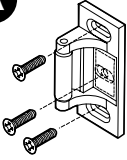
- SCREW CHART 2
- DEVICE INSTALLATION 46
- PREPARATION CHART 7
- OPTIONAL EQUIPMENT 8
- CUT DEVICE 9

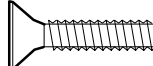
THIS PRODUCT IS COVERED BY THE
FOLLOWING PATENT NUMBERS:

3,767,238 4,427,223
3,854,763 4,437,693
4,167,280 4,466,643
4,741,563

SCREW CHART

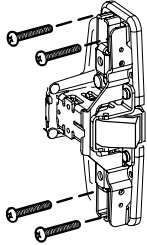
A



 #10-24 X 3/4" ————— METAL FRAME

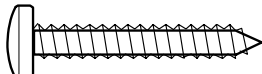
 #10 X 1-1/4" WOOD SCREW ————— WOOD FRAME

B



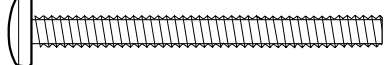
 #10-24 X 1" ————— SURFACE MOUNT OR
SEXBOLTS (1-3/4" DOOR)

 #10-24 X 1-1/2" ————— SEXBOLTS (2-1/4" DOOR)

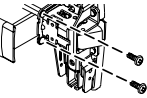
 #10 X 1-1/4" WOOD SCREW ————— SURFACE MOUNT (WOOD)

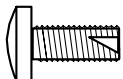
- PACKAGED WITH TRIM -

 #10-24 X 1-3/8" ————— 990 TRIMS (1-3/4" DOOR)

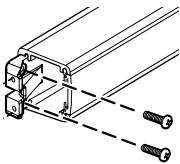
 #10-24 X 1-7/8" ————— 990 TRIMS (2-1/4" DOOR)

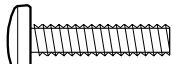
C



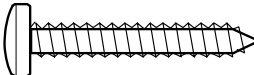
 #12-24 X 1/2" T/CUT ————— MECHANISM CASE SCREW

D

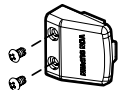


 #10-24 X 3/4" ————— SURFACE MOUNT OR
SEXBOLTS (1-3/4" DOOR)

 #10-24 X 1-1/8" ————— SEXBOLTS 2-1/4" DOOR

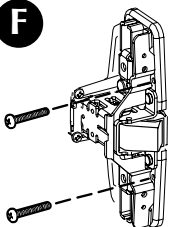
 #10 X 1 1/4" WOOD SCREW ————— SURFACE MOUNT (WOOD)

E



 #10-16 X 3/8" THREAD CUTTING ————— END CAP SCREW

F

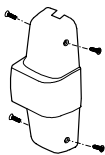



 #10-24 X 1" ————— SURFACE MOUNT OR
SEXBOLTS (1-3/4" DOOR)

 #10-24 X 1-1/2" ————— SEXBOLTS (2-1/4" DOOR)

 #10 X 1 1/2" WOOD SCREW ————— SURFACE MOUNT (WOOD)

G



 #8-18 X 3/8" THREAD CUTTING ————— COVER SCREW

NOTE TO OWNER

THIS PRODUCT IS NOT INTENDED TO DETAIN OR PREVENT EXIT, BUT TO DELAY EGRESS FOR NOT MORE THAN 15 SECONDS IN ACCORDANCE WITH NFPA 101 REQUIREMENTS FOR "SPECIAL LOCKING ARRANGEMENTS".

⚠ WARNING

THE SIGNAL SWITCH INSIDE THE DEVICE IS PRE-SET AT THE FACTORY. TAMPERING WITH THIS SWITCH CAN CAUSE THE BASIC EXIT FEATURES OF THIS DEVICE TO FAIL IN AN EMERGENCY.

⚠ CAUTION

THERE ARE NO USER SERVICEABLE PARTS IN THE ELECTRONIC MODULE OR IN THE DELAY MECHANISM. CONSULT FACTORY FOR REPAIR OF THESE COMPONENTS.

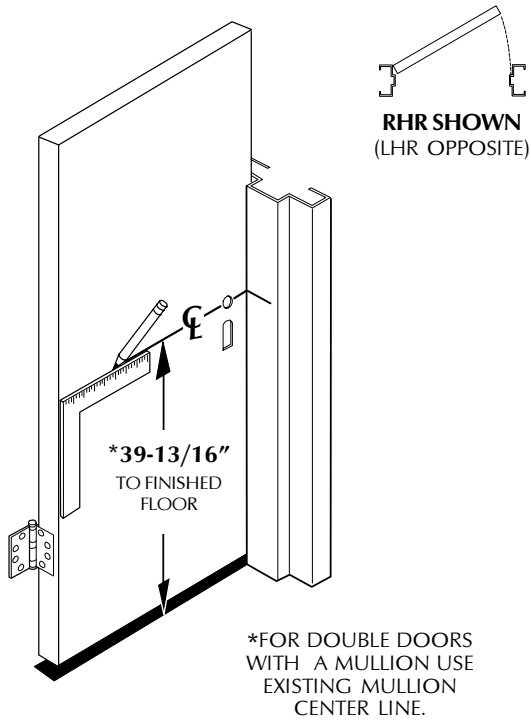
ATTENTION!

1. THE ELECTRONIC DELAY MODULE IS LOCATED IN A SEPARATE BOX AND MUST BE INSTALLED BY AN ELECTRICIAN.
2. CHECK DOOR SIZE CAREFULLY BEFORE CUTTING DEVICE AND COVER. REFER TO BACK PAGE OF INSTRUCTION FOR DIMENSIONS.
3. FIRE DEVICES ON WOOD/COMPOSITE DOORS REQUIRE THE USE OF #825 SEX BOLTS WHEN OUTSIDE TRIM IS USED (SEE STEP 9).
4. USE ALL SIX MOUNTING SCREWS TO SECURE CENTER CASE TO DOOR (SEE "PREPARATION CHART" ON PAGE 6).
5. DEVICE SHOULD BE TESTED PERIODICALLY FOR PROPER FUNCTION AND MOVING PARTS SHOULD BE LUBRICATED SEMIANNUALLY.

****GIVE THESE INSTRUCTIONS TO BUILDING OWNER****

1

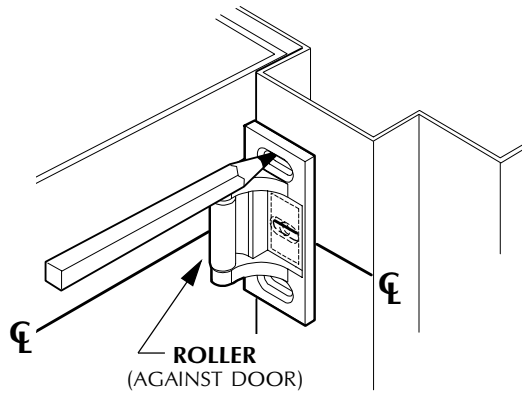
DRAW HORIZONTAL DEVICE AND STRIKE CENTER LINE (C).



2

ALIGN STRIKE ON C AND MARK THE TWO SLOTTED HOLES.

299/299F STRIKE

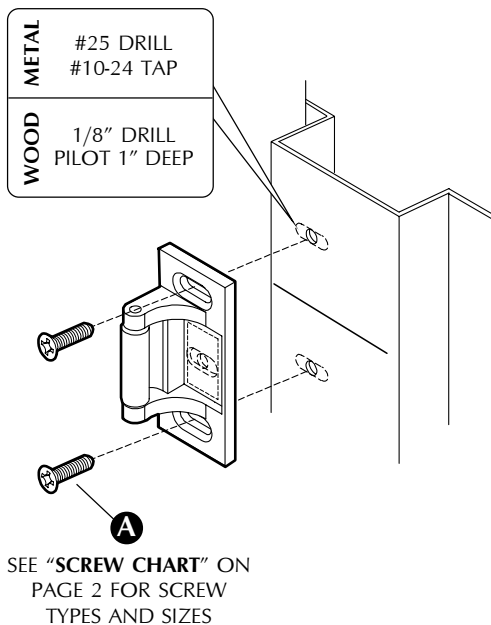


FOR 499F STRIKE SEE BACK COVER OF THIS INSTRUCTION.

3

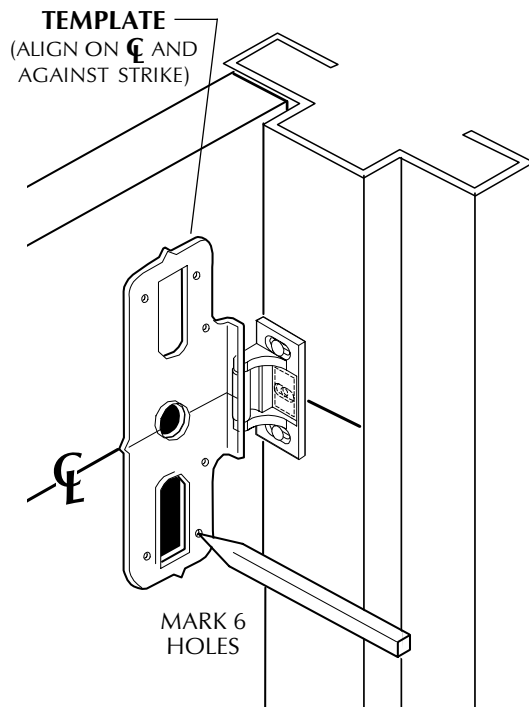
PREPARE 2 HOLES AND INSTALL A SCREW THRU EACH SLOT.

299/299F STRIKE



4

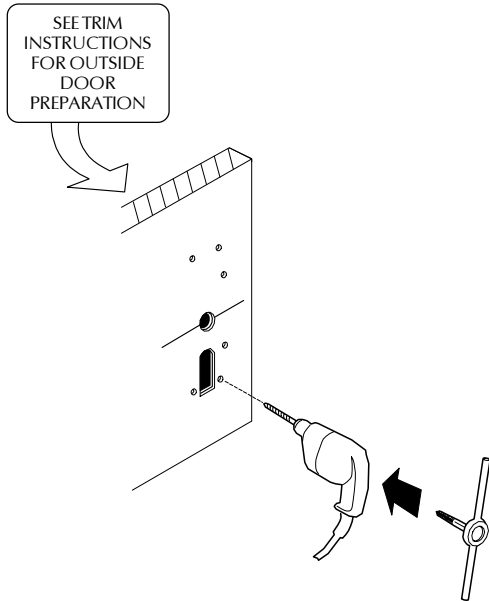
POSITION TEMPLATE AGAINST STRIKE AND ON C AND MARK MOUNTING HOLES.



5

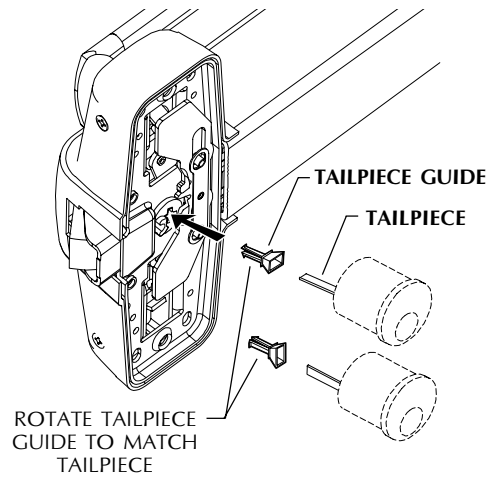
PREPARE DOOR FOR DEVICE AND TRIM.

SEE "PREPARATION CHART" ON PAGE 6 FOR DRILL, TAP, AND CUT-OUT INFORMATION

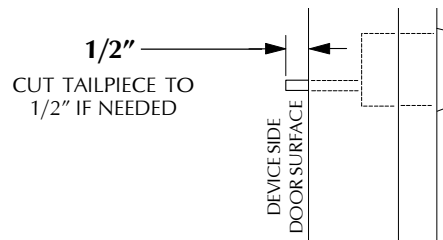


6

IF USING AN OUTSIDE LOCKING CYLINDER, INSTALL TAILPIECE GUIDE.

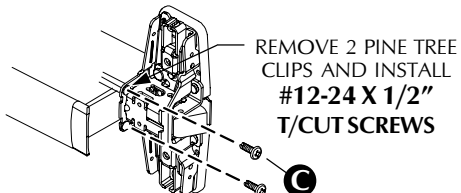
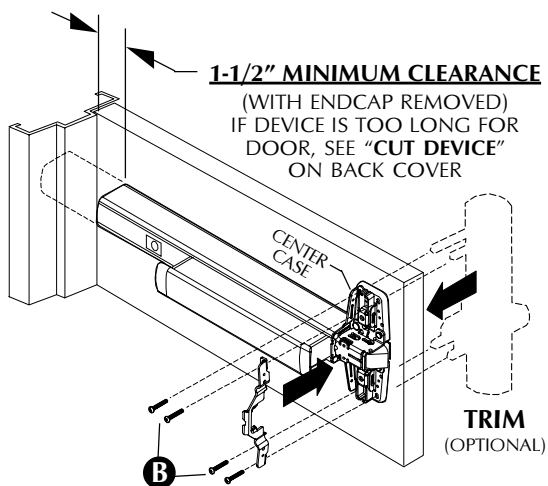


CYLINDER TAILPIECE LENGTH



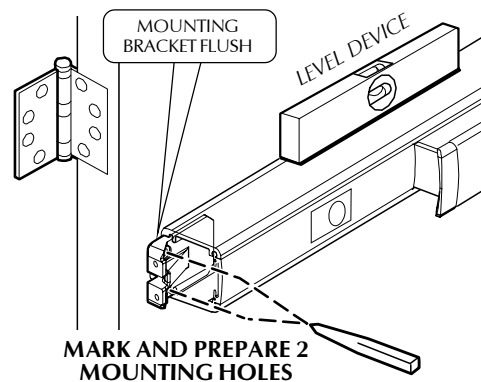
7

INSTALL TRIM (IF USING) AND SECURE DEVICE CENTER CASE TO DOOR.

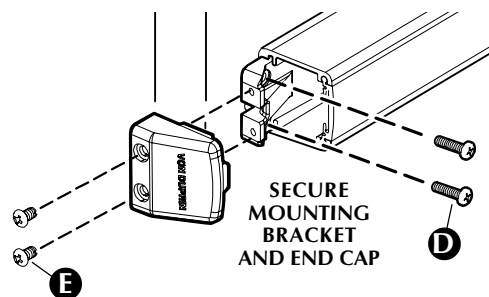


8

INSTALL MOUNTING BRACKET AND END CAP.

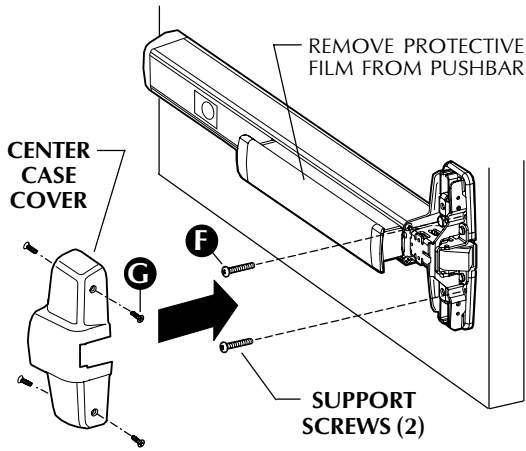


SEE "PREPARATION CHART" ON PAGE 6 FOR PREPARATION

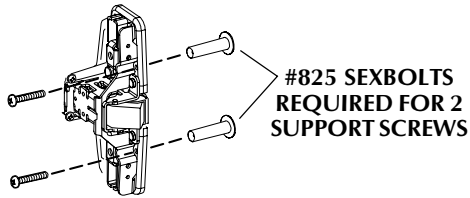


9

**INSTALL 2 SUPPORT SCREWS,
AND CENTER CASE COVER.**



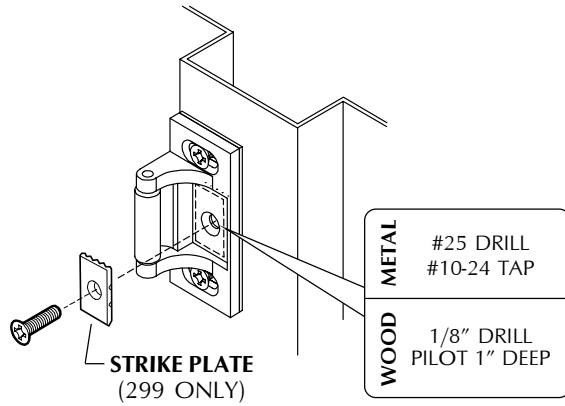
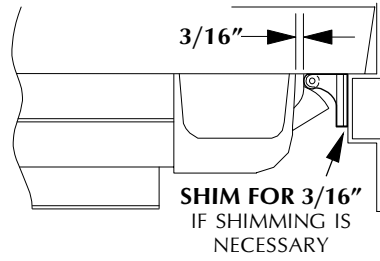
**FOR 98F/99F (FIRE RATED) DEVICES
ON WOOD OR COMPOSITE DOOR:**



10

ADJUST AND SECURE STRIKE.

299/299F STRIKE



PREPARATION CHART

SEE INSTRUCTIONS ON PAGES 4-5 BEFORE USING PREPARATION CHART

*END CAP BRKT. - 2 HOLES

SURFACE MOUNT		SEX BOLTS	
METAL	#25 DRILL #10-24 TAP	METAL	#1/4" DRILL (DEVICE SIDE) 13/32" DRILL (TRIM SIDE)
WOOD	1/8" DRILL PILOT 1" DEEP	WOOD	13/32" DRILL THRU

*PREPARE HOLES AFTER LOCK SIDE OF DEVICE IS MOUNTED AND HINGE SIDE OF DEVICE IS LEVELED

CENTER CASE - 4 HOLES

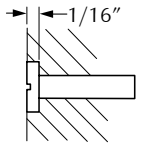
SURFACE MOUNT		SEX BOLTS OR 990 SERIES TRIM	
METAL	#25 DRILL #10-24 TAP	METAL	#1/4" DRILL (DEVICE SIDE) 13/32" DRILL (TRIM SIDE)
WOOD	1/8" DRILL PILOT 1" DEEP	WOOD	13/32" DRILL THRU

CENTER CASE - 2 HOLES


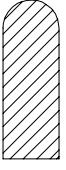
SURFACE MOUNT		#425 SEX BOLTS	
METAL	#25 DRILL #10-24 TAP	METAL	1/4" DRILL (DEVICE SIDE) 13/32" DRILL (TRIM SIDE)
WOOD	1/8" DRILL PILOT 1" DEEP	WOOD	13/32" DRILL THRU

FOR 98-F/99-F (FIRE) WOOD DOOR

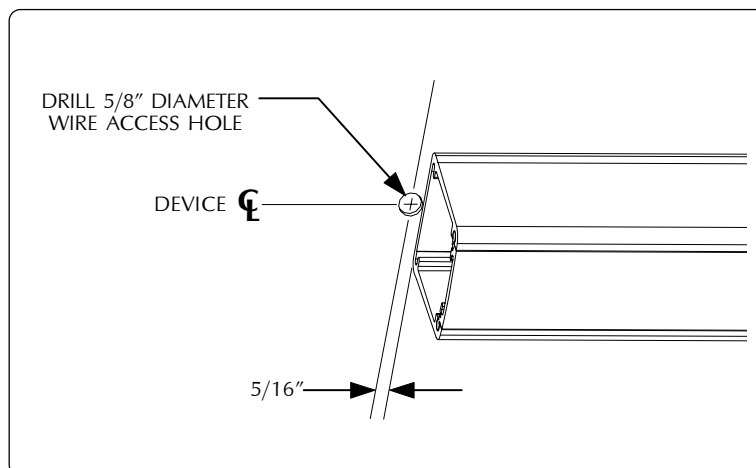
#825 SEX BOLTS (2) REQUIRED

WOOD OR COMPOSITE	3/8" DRILL THRU	
	5/8" SPADE DRILL 1/16" DEEP OUTSIDE	

STANDARD DOOR CUT-OUTS

	OUTSIDE CYLINDER APPLICATIONS: MARK WITH TEMPLATE AND CUT OUT: METAL DOOR (CUT DEVICE SIDE) WOOD DOOR (CUT THRU)
	FOR TRIM APPLICATIONS WITH WORKING LEVER, THUMBPIECE, OR KNOB: MARK WITH TEMPLATE AND CUT OUT: METAL DOOR (CUT DEVICE SIDE) WOOD DOOR (CUT THRU)

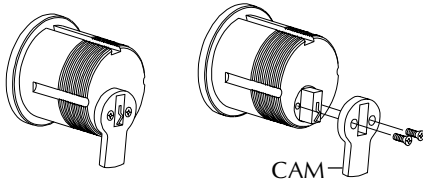
CHEXIT WIRING ACCESS HOLE



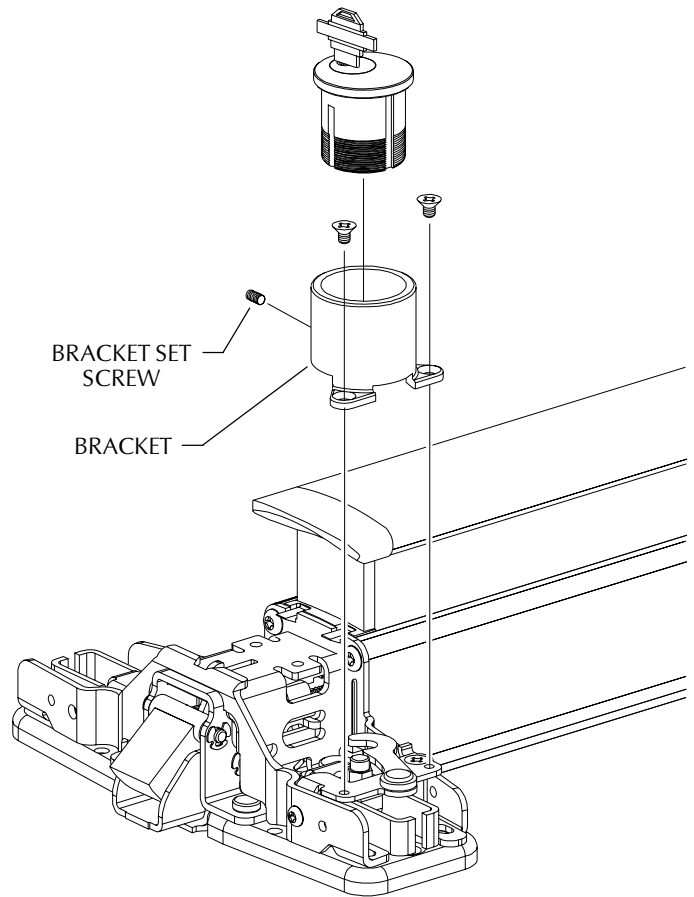
OPTIONAL EQUIPMENT

CD (CYLINDER DOGGING)

1. MAKE SURE CYLINDER CAM IS POSITIONED AS SHOWN WITH KEY REMOVED. IF NOT POSITIONED AS SHOWN REMOVE CYLINDER CAM AND REVERSE.



2. REMOVE CENTER CASE COVER FROM DEVICE.
3. ORIENT CYLINDER AS SHOWN AT RIGHT AND INSERT CYLINDER INTO BRACKET.
4. TIGHTEN BRACKET SET SCREW WITH A 1/16" HEX WRENCH.
5. SECURE CYLINDER BRACKET TO CENTER CASE.

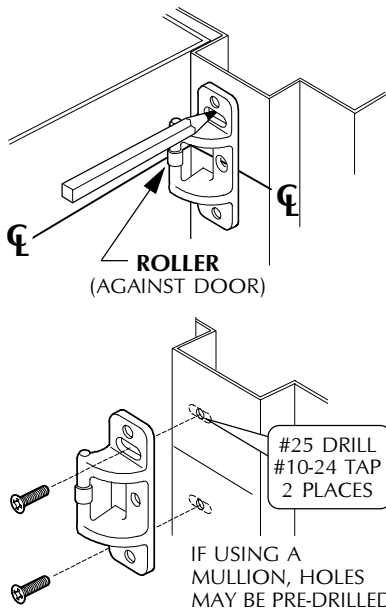


TO DOG RHR DEVICE, DEPRESS PUSHBAR, INSERT KEY, AND TURN KEY 180 DEGREES COUNTERCLOCKWISE.
TO DOG LHR DEVICE, TURN KEY CLOCKWISE.

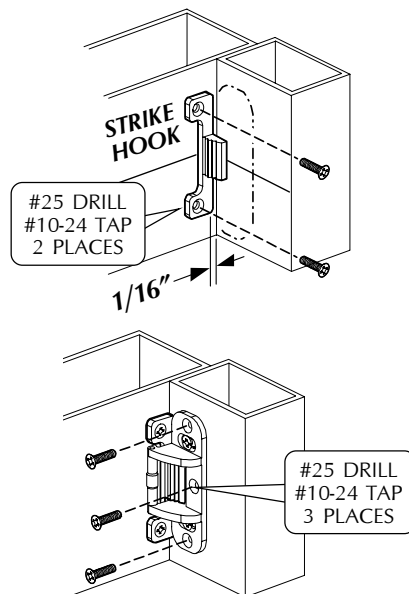
TO UNDOG RHR DEVICE, INSERT KEY AND TURN KEY 180 CLOCKWISE. **TO UNDOG LHR DEVICE**, TURN KEY COUNTERCLOCKWISE.

499F STRIKE INSTALLATION

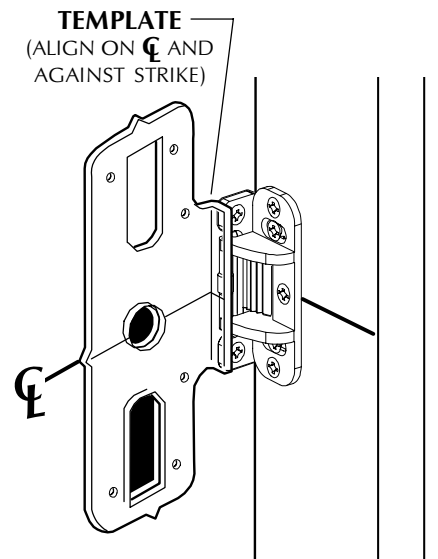
- 1 PREPARE AND INSTALL SCREWS THROUGH 2 STRIKE SLOTS.



- 2 INSTALL STRIKE HOOK AND ADDITIONAL STRIKE SCREWS.

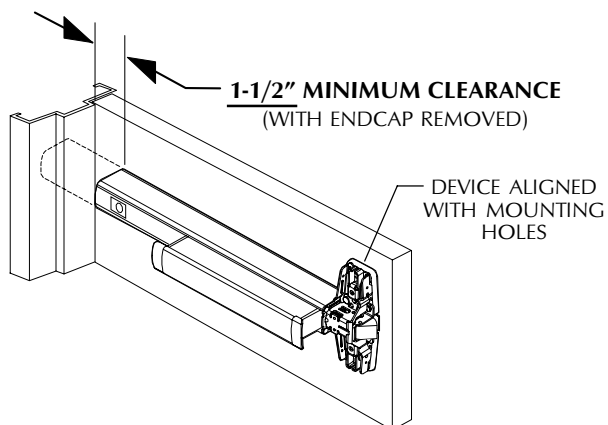


- 3 TEMPLATE ALIGNS AS SHOWN.



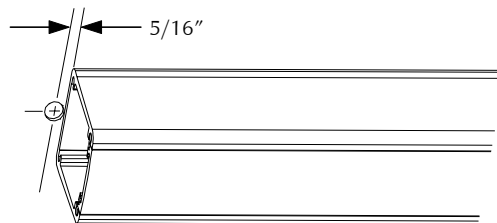
CUT DEVICE

1 MEASURE AMOUNT TO CUT OFF DEVICE.

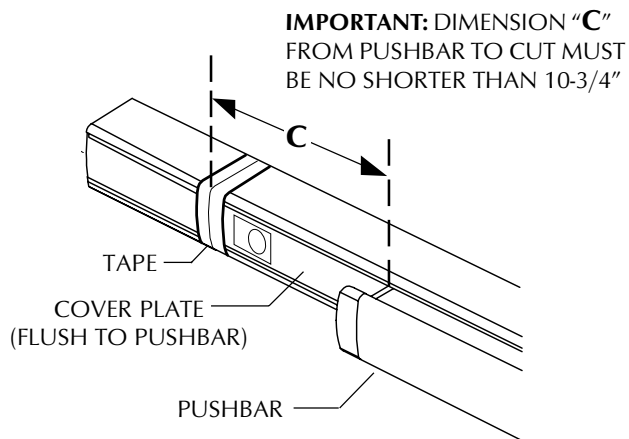


2 CHECK DOOR FOR WIRE ACCESS HOLE.

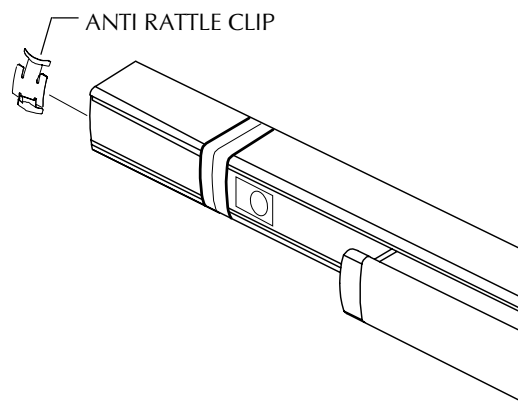
IF 5/8" DIAMETER WIRE ACCESS HOLE HAS BEEN PREDRILLED IN DOOR, MARK DEVICE TO BE CUT 5/16" FROM CENTER OF HOLE. IF ACCESS HOLE IS NOT ALREADY PRESENT, GO TO STEP 3.



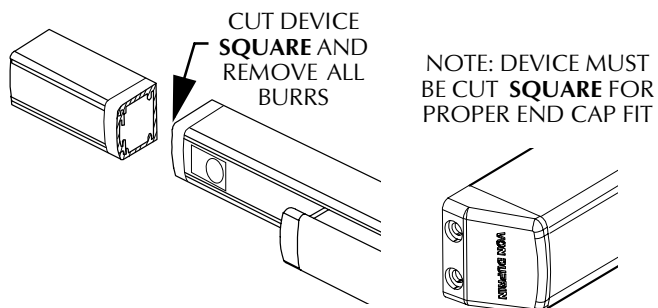
3 TAPE AND MARK AREA BEING CUT.



4 REMOVE ANTI RATTLE CLIP.



5 CUT DEVICE SQUARE.



6 SLIDE ANTI RATTLE CLIP INTO DEVICE.

