

RIM EXIT DEVICE & ALARM (250 SERIES)

FORM NO. FM64

**Corbin
Russwin**

Corbin Russwin
Architectural Hardware
P.O. Box 25288
Charlotte, NC 28229-8010

**"EL" AND "ELD" SERIES (ALSO WITH PREFIX "LA")
REVERSIBLE FOR USE WITH LOW PROFILE EXIT DEVICES
29, 277, 372**

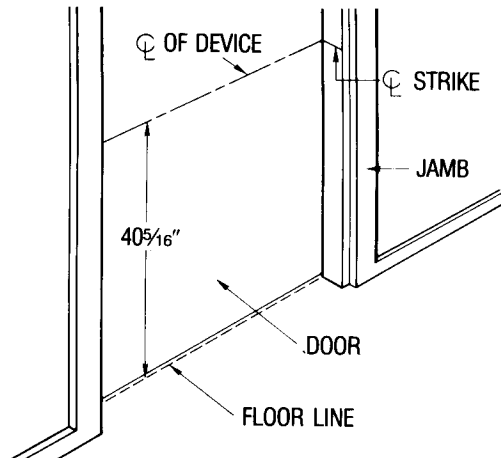
INSTALLATION INSTRUCTIONS FOR WOOD AND METAL DOORS

IMPORTANT NOTICE:

Exit Devices must be securely fastened to properly reinforced doors with fasteners which will not loosen or pull out. Add reinforcement when necessary.

1. MARK CENTER LINE

Establish the center line of the device by drawing a line across the door and stop $40\frac{5}{16}$ " above floor.

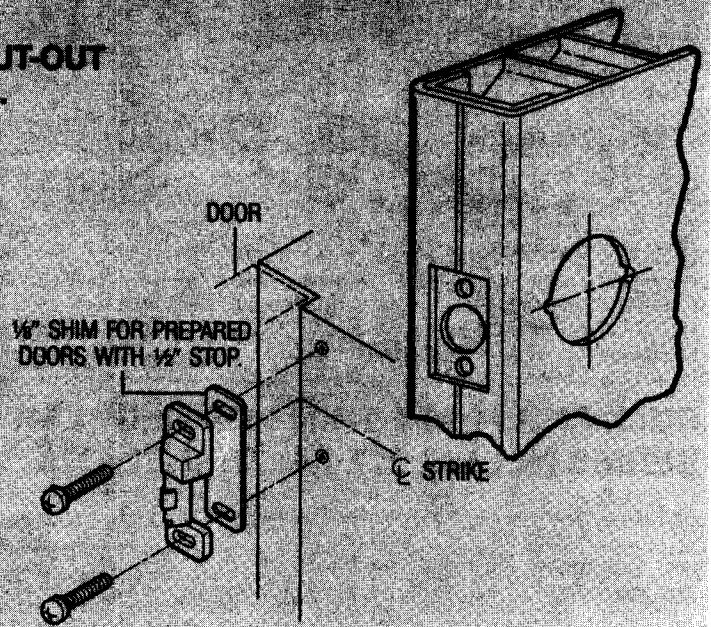


NOTE:

IF YOUR DOOR HAS CYLINDRICAL LOCK CUT-OUT FOR ANSI A115.2 AND A115.3 PREP DOORS.

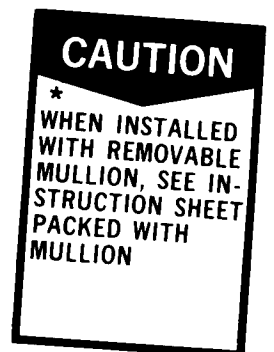
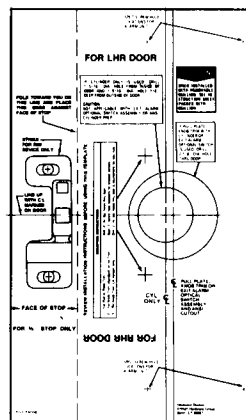
- Extend horizontal and vertical center lines of cut-out as shown at right.
- If frame has $\frac{5}{8}$ " stop, align center lines on Template with center lines on Door. Spot and drill Template holes as described on Template and follow steps three thru six.
- If frame has $\frac{1}{2}$ " stop, align center lines on Template with center lines on door and spot mounting holes for LATCH ASSEMBLY AND ALARM ONLY. Then MOVE Template up against stop and spot mounting holes for Strike. Drill two mounting holes. Now follow steps three thru six. Note special Shim shown at right, which is mounted beneath Strike.

SHIM FURNISHED ONLY WHEN ORDERED



2. *SPOT AND DRILL TEMPLATE HOLES

Using Template furnished, spot and drill mounting holes for Trim (if furnished), Device, Alarm and Strike.

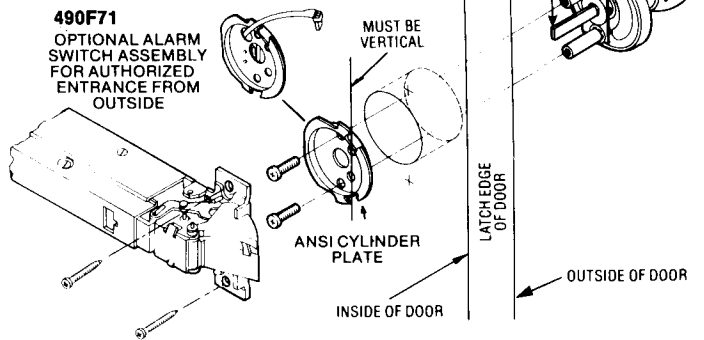


3. INSTALL TRIM AND STRIKE

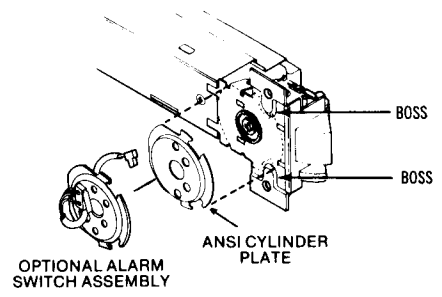
CAUTION: REFER TO TEMPLATE PACKED WITH TRIM BEFORE PROCEEDING WITH STEP 3.

KNOB TRIM FOR REGULAR DEVICES

KNOB TRIM FOR REGULAR DEVICES SERIES 29, 277, 372

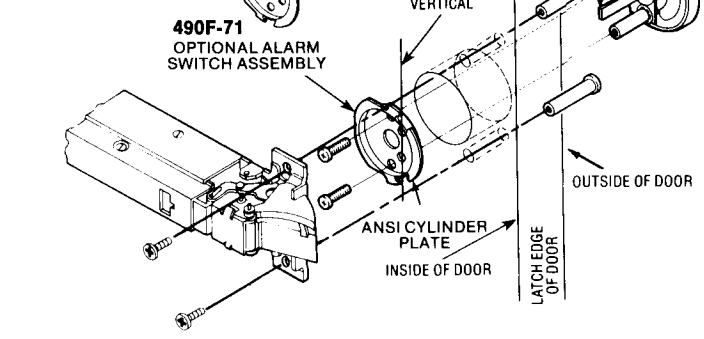


VIEW REVERSED TO SHOW PROPER MATING POSITION WHEN INSTALLED.



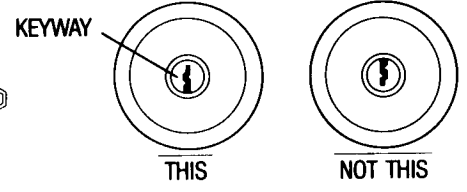
CAUTION: WHEN USING THE ANSI CYLINDER PLATE BE SURE THE BOSSES ON THE LATCH ASSEMBLY FIT INTO THE CUTOUTS ON THE CYLINDER PLATE SO THAT THE LATCH ASSEMBLY LAYS FLAT ON THE DOOR.

KNOB TRIM FOR FIRE RATED DEVICES "LA" PREFIX

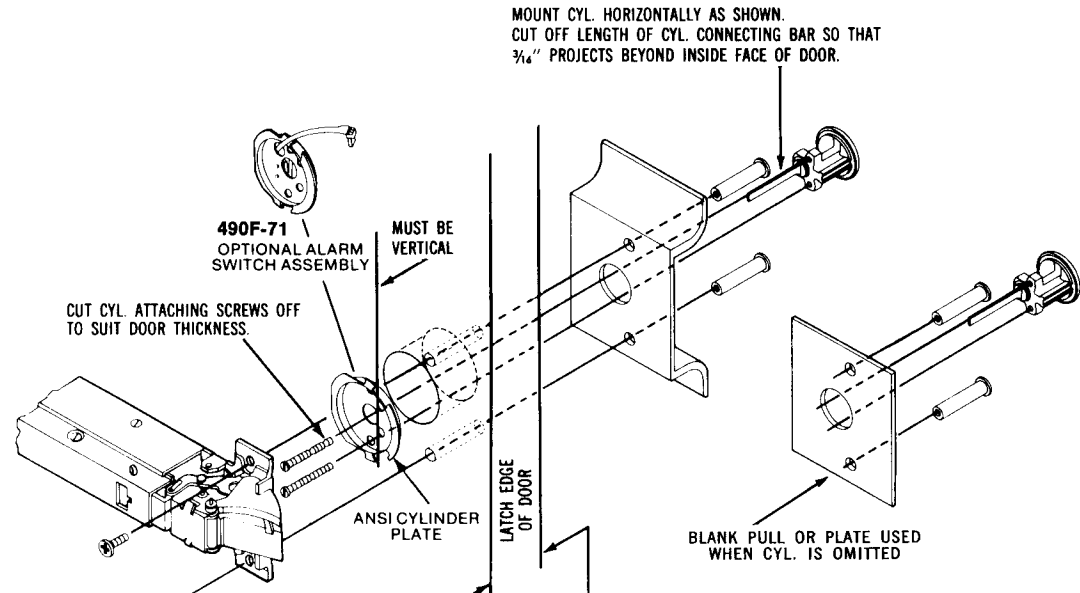


TO ELIMINATE INTERFERENCE WITH ROSE, SINK HEAD OF SEX NUTS FLUSH WITH DOOR.

MOUNT KEYWAY IN KNOB VERTICALLY AS SHOWN



PULL AND PLATE TRIM FOR REGULAR AND FIRE RATED DEVICES SERIES 29, LA29, 277, LA277, 372, LA372.

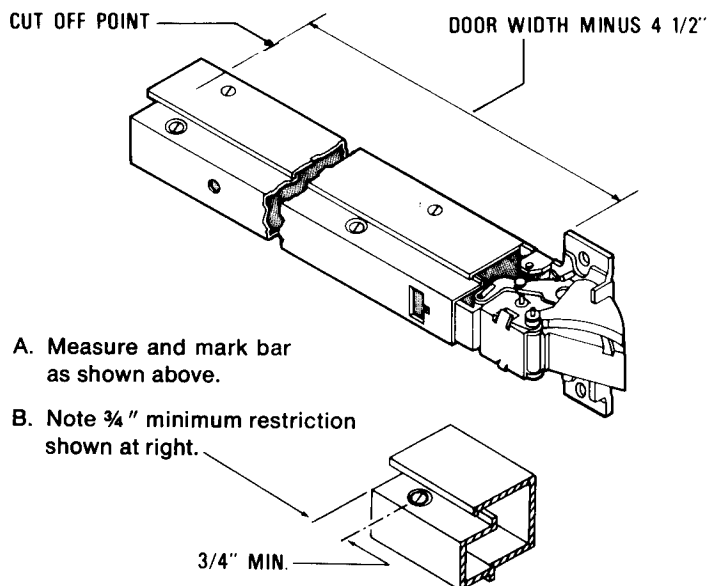


MOUNT CYL. HORIZONTALLY AS SHOWN. CUT OFF LENGTH OF CYL. CONNECTING BAR SO THAT 3/16" PROJECTS BEYOND INSIDE FACE OF DOOR.

BLANK PULL OR PLATE USED WHEN CYL. IS OMITTED

4. CUTTING PUSH BAR

IF BAR DOES NOT REQUIRE CUTTING, PROCEED TO STEP FIVE.

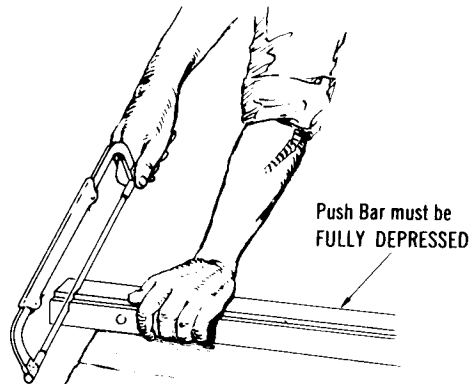


A. Measure and mark bar as shown above.

B. Note $\frac{3}{4}$ " minimum restriction shown at right.

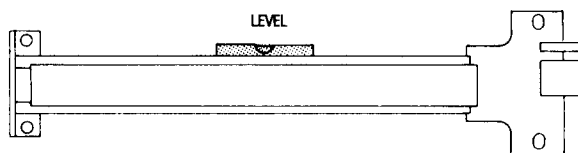
3/4" MIN.

C. Fully depress Bar and cut off square on mark.



5. MOUNT DEVICE

Attach Latch to Door but do not tighten Screws. Assemble Rear Mounting Bracket to Push Bar (see nesting arrangement in exploded view). Use Rear Mounting Bracket as a template to spot holes for Mounting Screws. Push Bar should be level. Drill screw holes and attach Rear Mounting Bracket to door. Secure Latch Screws and attach Front and Rear Covers.



IF ALARM IS BEING USED DO NOT INSTALL THIS COVER. SEE STEP 6.

TEST PUSH BAR

NO TRIM SERIES:

Latch bolt is retracted by the push bar inside.

KNOB TRIM SERIES:

Latch bolt is retracted by the push bar inside and the key or knob outside.

To lock knob: Insert key in cylinder and turn counter clockwise as far as key will turn. Then return key to its vertical position and withdraw key.

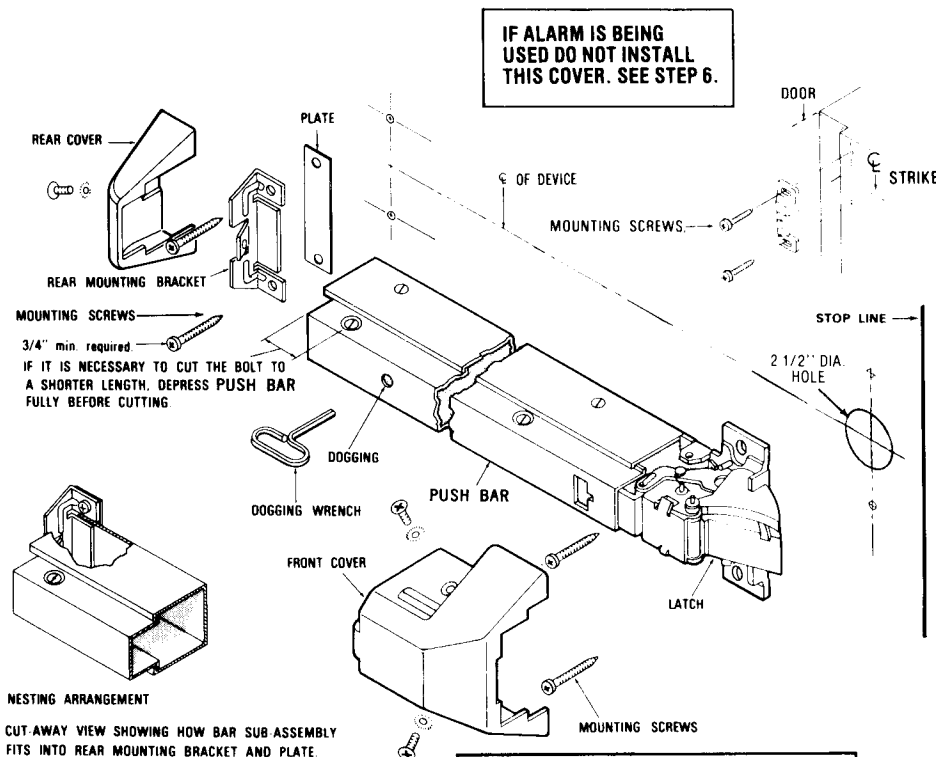
To unlock knob: Insert key in cylinder and turn clockwise as far as key will turn (the latch will retract during this procedure) Then return key to its vertical position and withdraw key.

PLATE OR PULL TRIM SERIES:

Latch bolt is retracted by the push bar inside and the key outside. Turning the key in either direction will retract the latch. Return key to the horizontal position to remove key and project latch.

TEST DOGGING OPERATION

Dogging (if furnished): Depress push bar. Insert dogging wrench and turn clockwise 90°. The push bar will remain depressed and the latch will remain retracted.

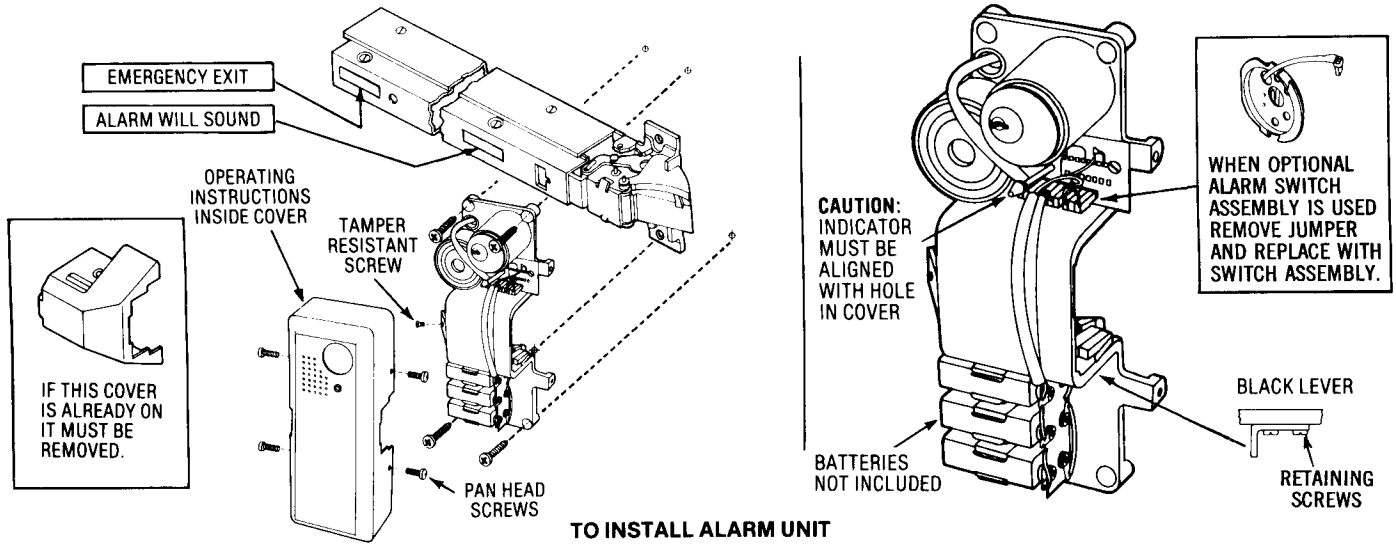


NESTING ARRANGEMENT

CUT-AWAY VIEW SHOWING HOW BAR SUB-ASSEMBLY FITS INTO REAR MOUNTING BRACKET AND PLATE

SEX NUTS & BOLTS REGULARLY FURNISHED ON "LA" VERSION—OPTIONAL ON

6. MOUNT EXIT ALARM



TO INSTALL ALARM UNIT

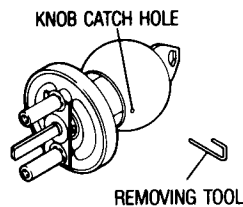
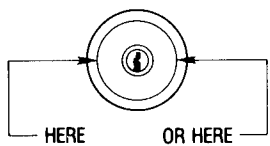
- Remove four 5/8" Pan Head Cover Screws and one Tamper Resistant Screw. Remove Cover.
- Place Alarm Unit on Latch. Position alignment bosses against Latch Frame. Secure with four Mounting Screws.
- Install one, two, or three 9 volt alkaline batteries NEDA #1604A or equivalent. **Batteries not furnished.** Note: Unit will operate on one battery. Additional batteries will allow Alarm to sound for a longer time. (Max. 72 hrs. with 3 batteries).
- Use Key to arm unit. The Red Indicator should light up to show that power is available and the 20 Second Delay is activated. When Indicator Light goes out unit is armed.
- Test unit by depressing Pushbar. Alarm should sound. If Alarm sounds and Latch Bolt and Strike Engagement and Release are satisfactory shut Alarm off with the Keyed Alarm Switch.
- If Latch Bolt and Strike Engagement are not satisfactory Alarm Sensitivity can be adjusted so as to detect various degrees of Latch Retraction and Push Bar Depression and also to compensate for minimum Latchbolt and Strike Engagement. To adjust Alarm Switch, loosen two Retaining Screws and move the black Lever on the Switch **toward** Strike to increase sensitivity and **away** from the Strike to decrease sensitivity. Tighten Retaining Screws.
- Retest as in Step E.
- Retract Latch Bolt by dogging down (or depressing) Push Bar. Secure Alarm Cover by installing four Pan Head 5/8" Cover Screws and one Tamper Resistant Screw. For added security, use two 1" Pan Head Screws provided in place of the 5/8" Cover Screws on Strike Side of Cover.

TO REMOVE AND REINSTALL CYLINDER IN KNOB:

Remove Knob:

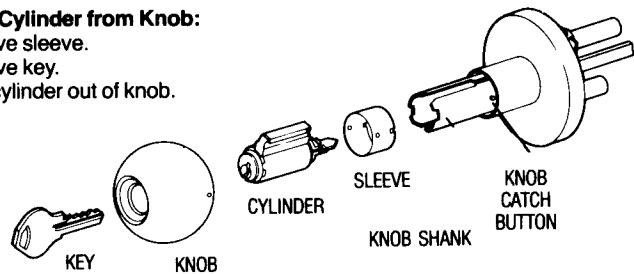
- Insert key in cylinder and turn 90° clockwise.
- Insert knob removing tool into the hole in the knob and depress the knob catch button.
- While knob catch button is depressed pull knob off.

(The knob catch button will be in one of these positions)



Remove Cylinder from Knob:

- Remove sleeve.
- Remove key.
- Slide cylinder out of knob.



SCREW CHART

ITEM	QUANTITY	FASTENER
Front plate assembly and rear bracket	4	#12-24x3/4" Lg. pan head machine screws or #12x1 1/4" Lg. pan head tapping screws type "A".
Strike	2	#12-24x3/4" Lg. pan head machine screws or #12x1 1/4" Lg. pan head tapping screws type "A".
Alarm	4	#12x1 1/4" Lg. pan head tapping screws type "A".
	4	#12 Lock washers.
	4	#8-32x5/8" Lg. pan head machine screw.
	2	#8-32x1" Lg. pan head machine screws (optional - for added security).
	1	#5-40x1/4" Lg. flat head machine screw.

Drill sizes for screws and sex nuts cannot be recommended because various factors, such as type of door and frame construction, thickness and type of metal, etc., can affect the final hole diameter and resulting holding strength of the fastener.

*Sex nuts P/N 376F37 are regularly furnished with "LA" type exit devices. They are optional for all other exit devices and, depending on trim, may be furnished for rear bracket only.