

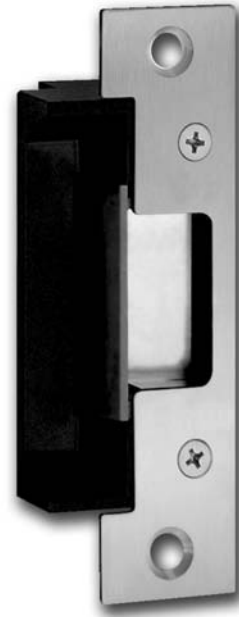


Raising the Standards

22630 North 17th Avenue
Phoenix, Arizona 85027
Technical Support: 800.626.7590
support@hesinnovations.com
www.hesinnovations.com

5000 series strike

Installation Instructions



UL 1034
burglary rated



field selectable
(12 or 24VDC)



field selectable
(fail secure / fail safe)



grade 1



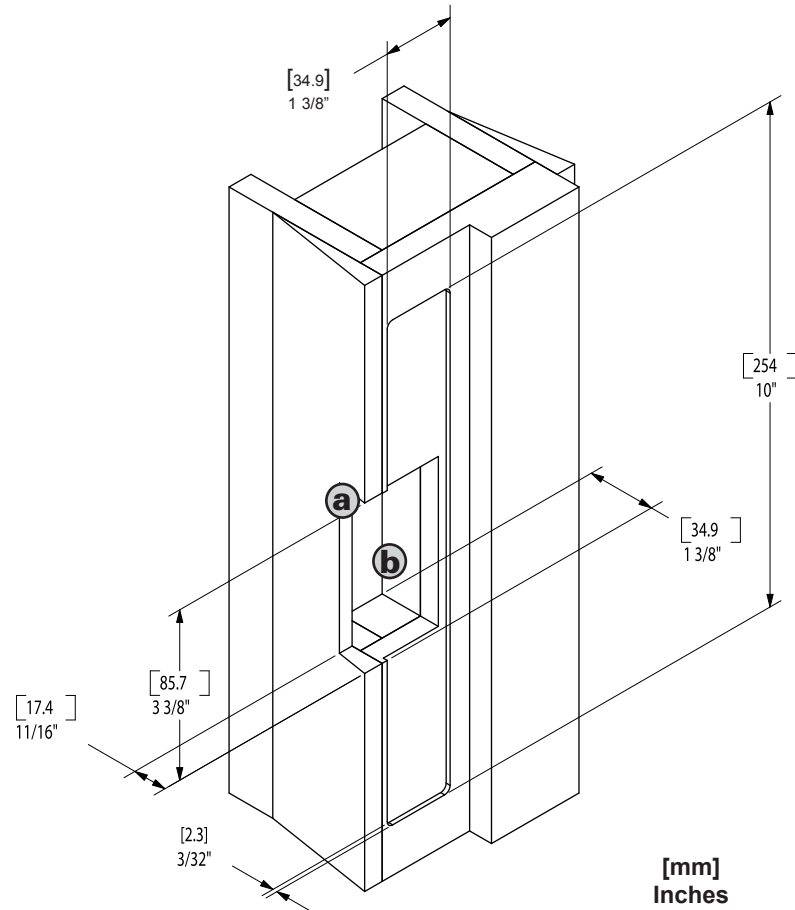
cylindrical locksets



specialty
locksets

504 faceplate option

What should the cutout be?



- a** Cut frame according to the dimensions in the drawing.
- b** Chisel out the recess dimensions within the frame.
- c** For wood applications pre-drill pilot hole for mounting points with a #30 drill bit.

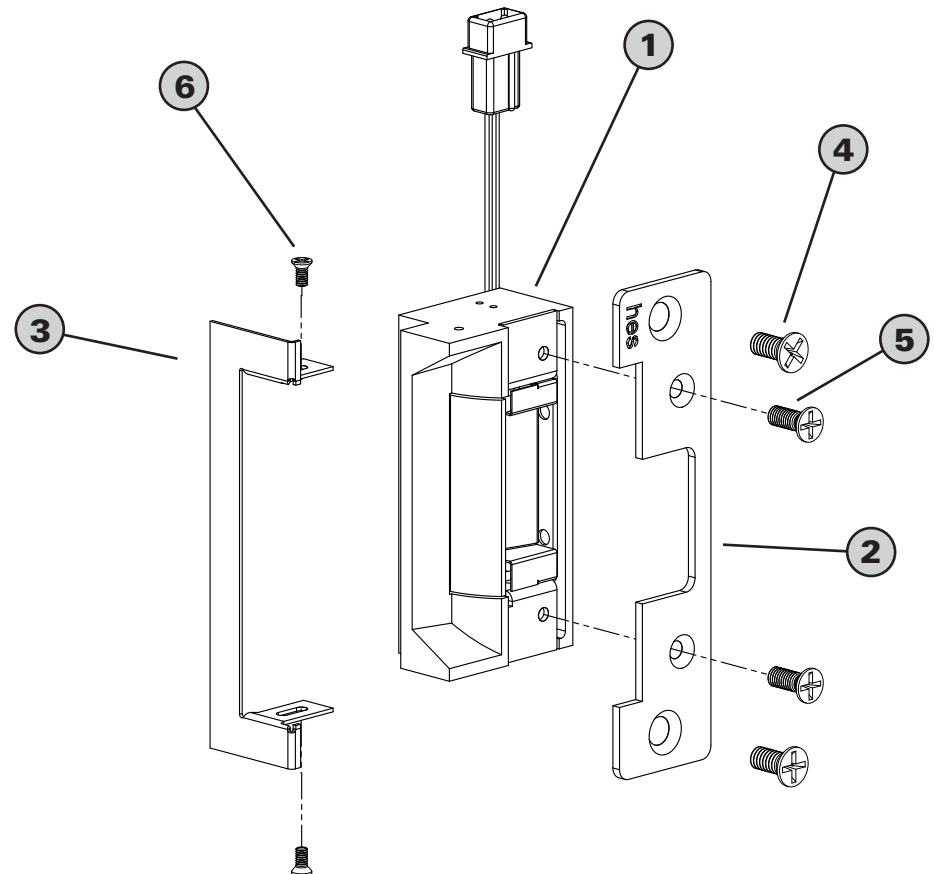


Caution

Before connecting electric strike at the installation site verify input voltage using a multimeter. Any input voltage exceeding 10% of the solenoid rating may cause severe damage to the unit.

What item are you looking for?

- 1** 5000 series strike body
- 2** Faceplate option kit
(sold separately)
- 3** Trim enhancer
- 4** Mounting screws
(sold with faceplate option kit)
- 5** Faceplate screws
(sold with faceplate option kit)
- 6** Trim enhancer screws



Step 1

Electrical ratings for the 5000:

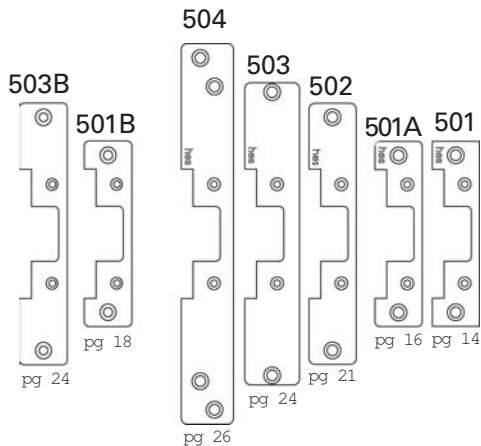
strike wiring configuration	12V - 16V	24V
resistance	50 Ohms	200 Ohms
continuous duty		
	10.8VDC - 13.2VDC .22 Amps - .27 Amps	21.6 VDC - 26.4 VDC .1 Amps - .13 Amps
intermittent duty 10% max duty cycle. (2 minute max on time).		
	10.8 VDC - 17.6 VDC .22 Amps - .35 Amps	21.6 VDC - 26.4 VDC .1 Amps - .13 Amps
	12 VAC - 17.6 VAC .24 Amps - .35 Amps	24 VAC - 26.4 VAC .12 Amps - .13 Amps

Minimum Wire Gauge Requirements	Solenoid Voltage	
	12V - 16V	24V
200 feet or less	18 gauge	20 gauge
200 to 300 feet	16 gauge	18 gauge
300 to 400 feet	14 gauge	16 gauge

Step 2

What faceplate will you be using?

option	door/frame
501	metal
501A	metal
503	flat aluminum
502	flat aluminum/wood
504	wood
501B	aluminum door
503B	aluminum door



Refer to pages 13-26 for faceplate dimensions.

Recommended "For Indoor Use Only."

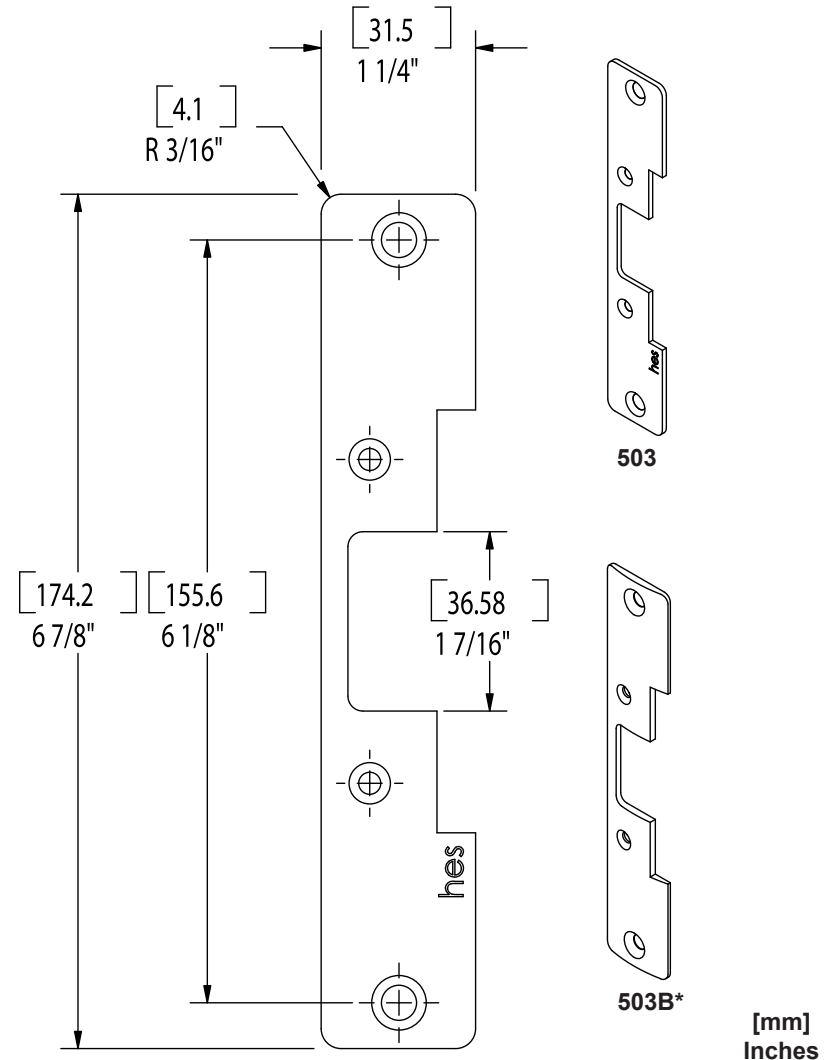


Installer Hint

Veteran installers suggest masking the frame off with tape. This allows you to mark your guides on the tape instead of the frame. Then after you cut the frame you simply need to remove the tape for a clean finish.

503/503B* faceplate option

What are the faceplate dimensions?

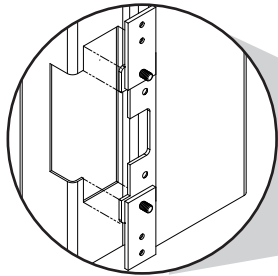


* 503B bevel face R 1/8"

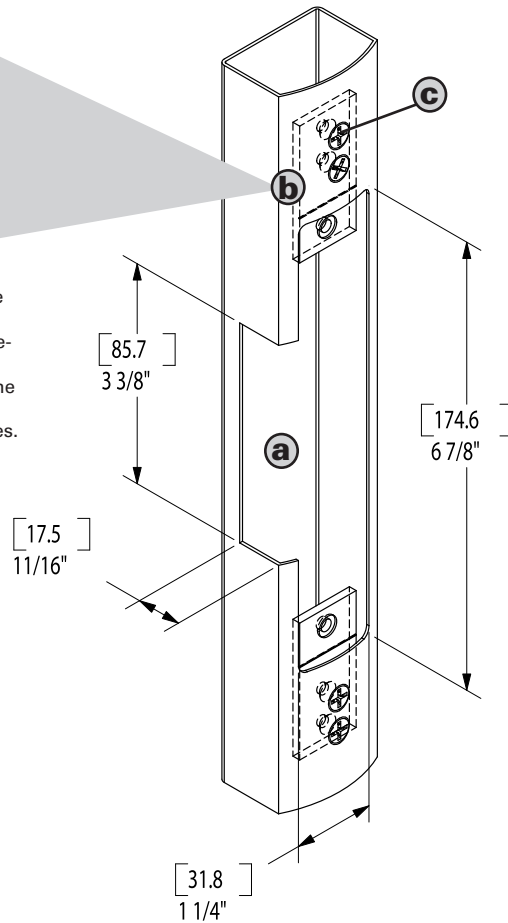
503B faceplate option

What should the cutout be?

beveled aluminum door



*Note: To make it easier to mark the locations for the mounting tabs, attach the mounting tabs to the faceplate, turn the faceplate backwards and insert it into the cutout. Mark the hole locations using the template. Remove the assembly and drill holes.



[mm]
Inches

- a** Cut frame according to the dimensions in the drawing.
- b** Install the mounting tabs to the frame, but do not fully tighten mounting tab screws.*
- c** After you install the strike, securely tighten the mounting tab screws.



Installer Hint

The wires do not need to be stripped, insert wires into the blue wire connector, crimp with pliers, and you are finished.

Step 3

Is your frame already prepared?

If the answer is **yes** continue to step 4.

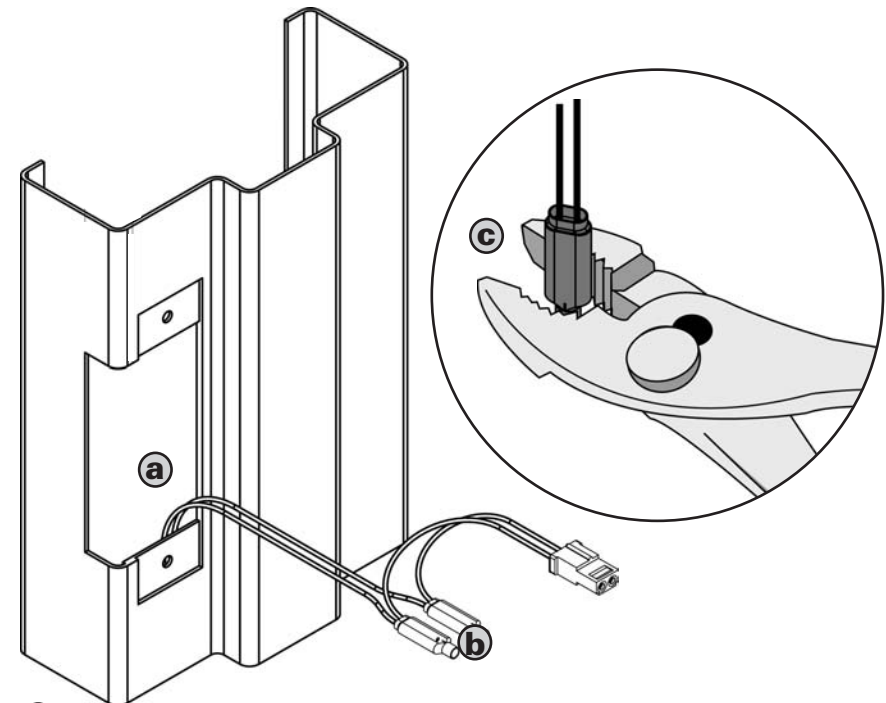
If the answer is **no** see frame prep example pages 11-12.

Step 4

Is a pigtail already attached?

If the answer is **yes** continue to step 5.

If the answer is **no** please follow the instructions below.



- a** Retrieve wires from inside the frame.
- b** Connect the pigtail to the wires inside the frame by using the blue wire connectors.
- c** Crimp connectors with pliers.

Step 5

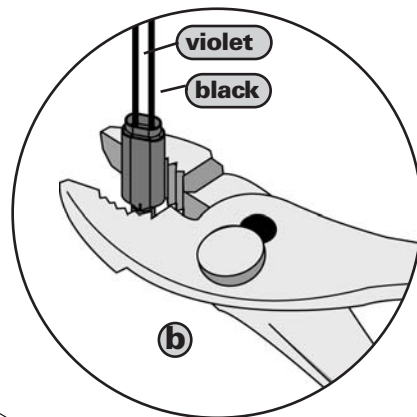
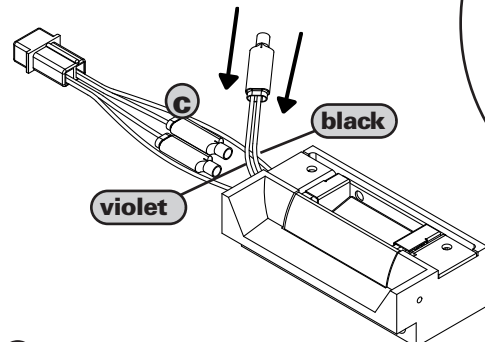
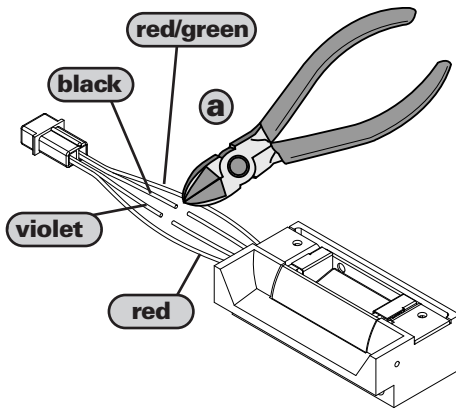
What does the strike wiring configuration need to be?

If the answer is **12 - 16* Volt** continue to step 6.

If the answer is **24 Volt** please follow the instructions below.

*For 16 Volt AC/DC operations, maintain the solenoid wiring configured for 12 - 16 V. Be advised that with a 16 Volt source, the Model 5000 is capable of a 10% Intermittent Duty Cycle (e.g. "On" for 2 seconds followed by "Off" for 20 seconds) with an "On" time not to exceed 2 minutes continuous.

16 Volt AC/DC Capable
(10% Intermittent Duty Cycle)



- a** Cut the violet and black wires.
- b** Insert violet and black wires coming from the strike into one blue wire connector, crimp with pliers.
- c** crimp one blue wire connector on each black and violet wire coming from the connector to prevent a short circuit.

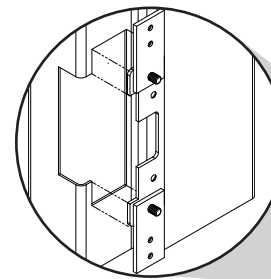


Installer Hint

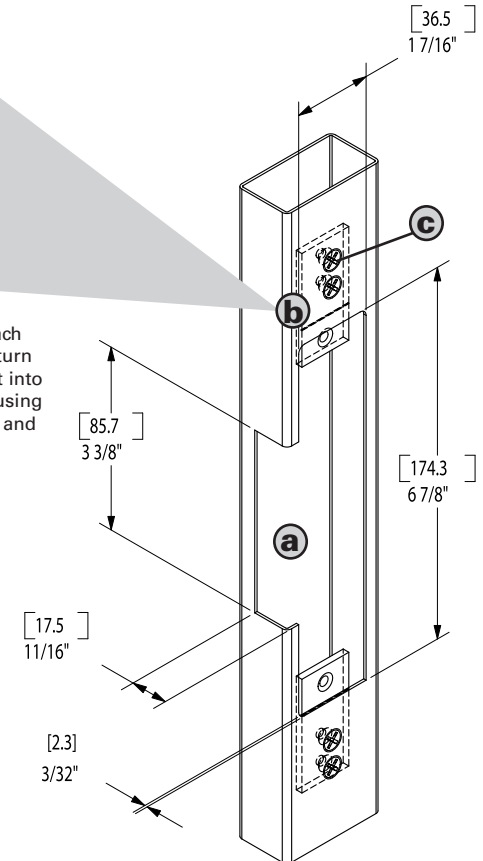
Cutting an aluminum frame with a router or a jigsaw can be very messy and noisy. Spread out a drop cloth in front of your work area to capture the aluminum chips and bring a vacuum to clean up after your installation.

503 faceplate option

What should the cutout be?



*Note: To make it easier to mark the locations for the mounting tabs, attach the mounting tabs to the faceplate, turn the faceplate backwards and insert it into the cutout. Mark the hole locations using the template. Remove the assembly and drill holes.

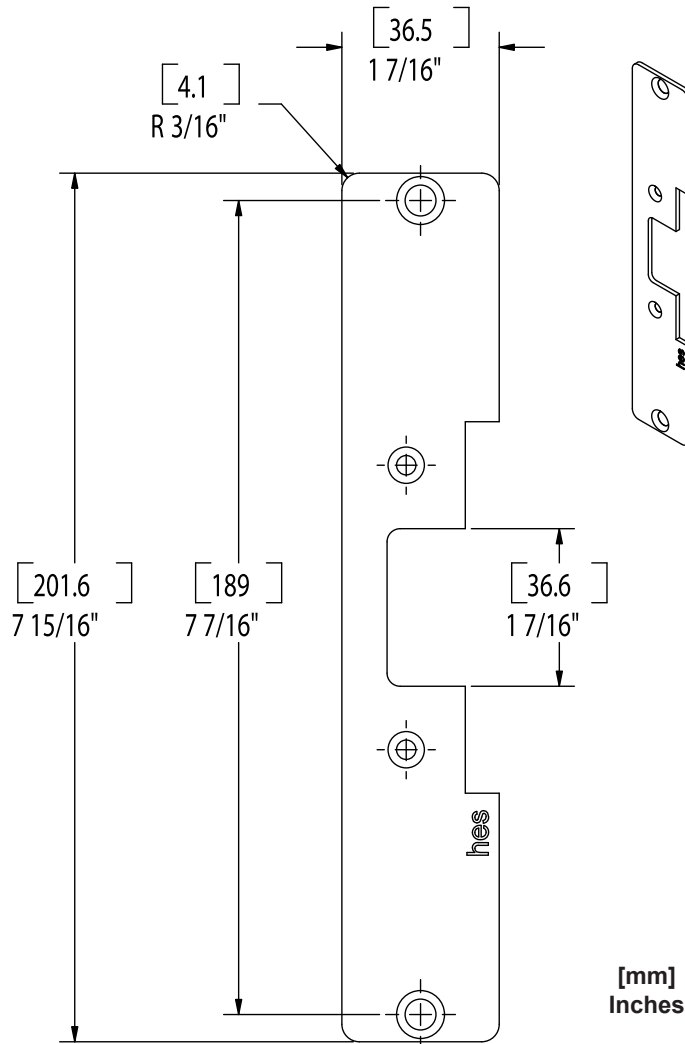


[mm]
Inches

- a** Cut frame according to the dimensions in the drawing.
- b** Install the mounting tabs to the frame, but do not fully tighten mounting tab screws.*
- c** After you install the strike, securely tighten the mounting tab screws.

502 faceplate option

What are the faceplate dimensions?



Installer Hint

When adjusting the screws for field selectability, veteran installers suggest adding a drop of Loctite® to the screws before tightening them into their final position for added durability.

Step 6

Do you use Standard or LBM?

If the answer is **standard** continue to step 7.

If the answer is **LBM** follow the instructions below.

Step 6a

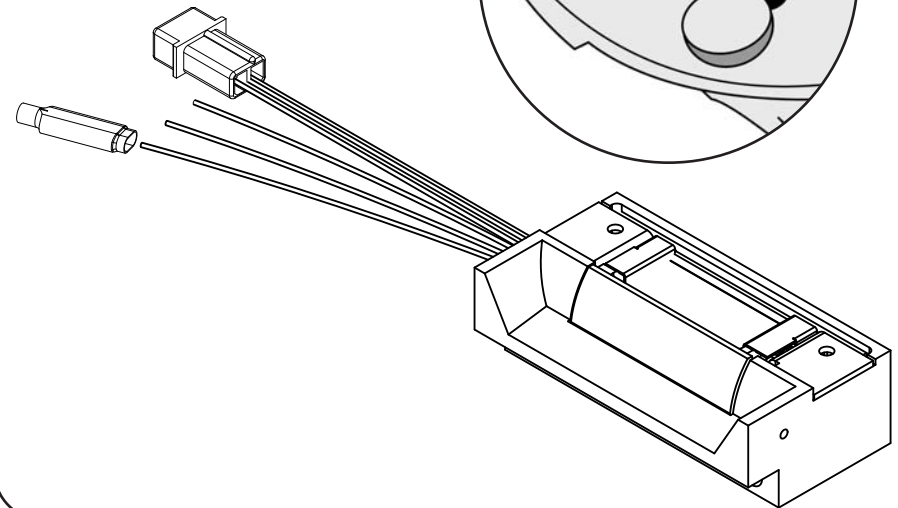
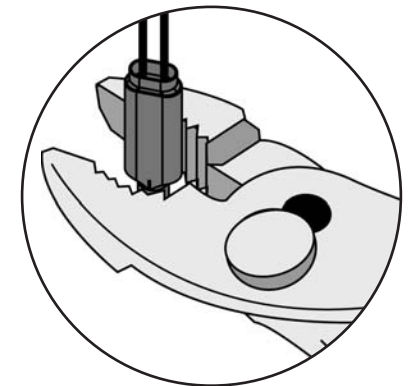
What is LBM?

LBM stands for Latch Bolt Monitoring. The **LBM** option detects that the Latch is captured in the Strike.

wiring diagram

LBM

white	common
orange	normally open
green	normally closed



Step 7

Do you need fail secure or fail safe?

If the answer is **fail secure** follow the instructions under step 7a.
If the answer is **fail safe** follow the instructions under step 7b.

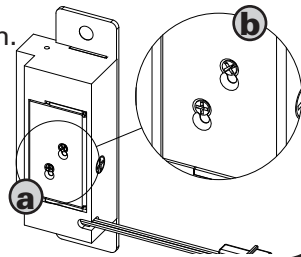
Step 7a

What is fail secure?

Fail secure means if the strike loses power it remains locked.
All HES strikes come standard as **fail secure**.

If you need to convert the strike to fail secure

- a** Loosen screws, but do not remove them.
- b** Move screws into **fail secure** position as shown.
- c** Tighten screws.

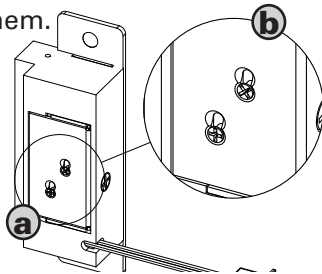


Step 7b

What is fail safe?

Fail safe means if the strike loses power it remains unlocked.
If you need to convert the strike to fail safe

- a** Loosen screws, but do not remove them.
- b** Move screws into **fail safe** position as shown.
- c** Tighten screws.

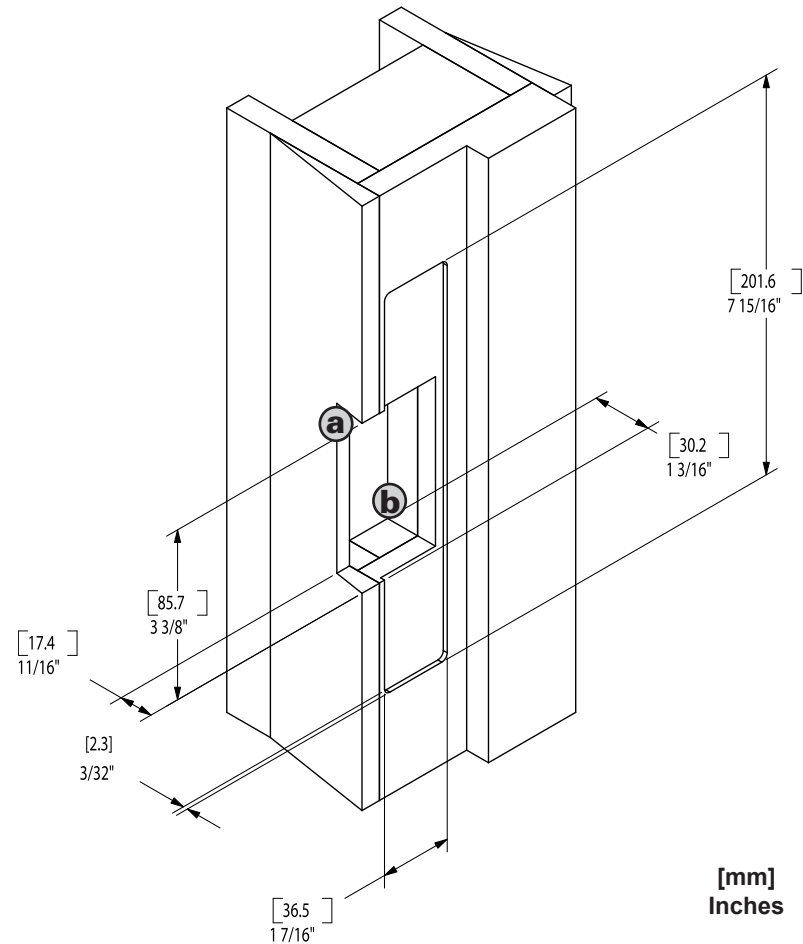


Installer Hint

To obtain the best results when preparing a wood frame for an electric strike installation; cut a 1/4" area around the inside of the template dimensions first with a wood chisel or router for a clean finished edge.

502 faceplate option

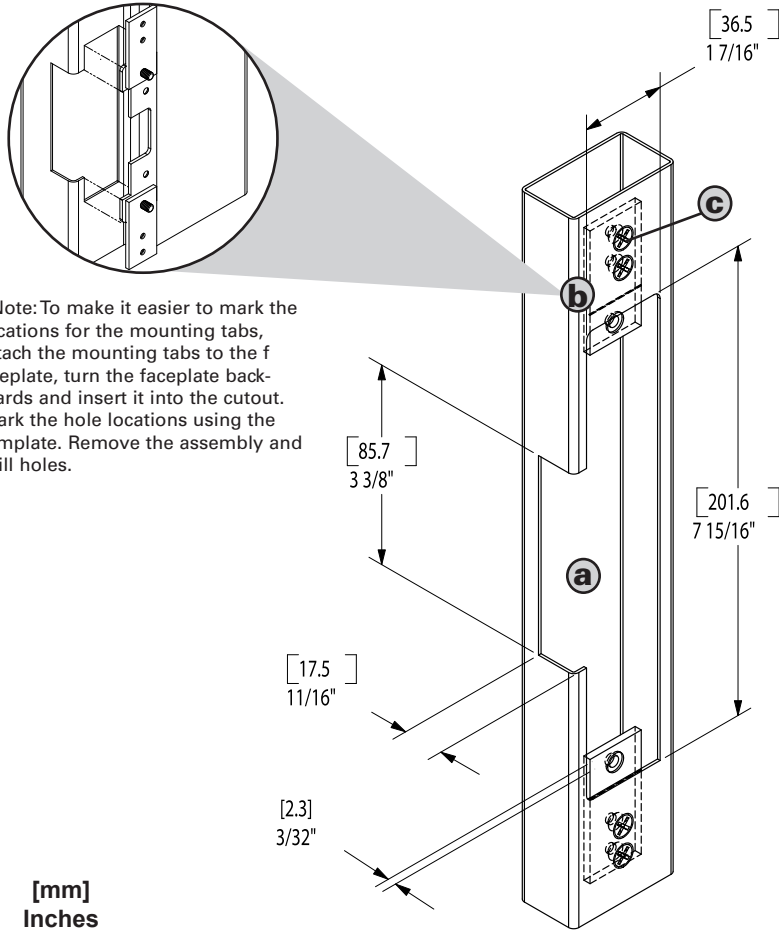
What should the cutout be?



- a** Cut frame according to the dimensions in the drawing.
- b** Chisel out the recess dimensions within the frame.
- c** For wood applications pre-drill pilot hole for mounting points with a #30 drill bit.

502 faceplate option

What should the cutout be?



*Note: To make it easier to mark the locations for the mounting tabs, attach the mounting tabs to the faceplate, turn the faceplate backwards and insert it into the cutout. Mark the hole locations using the template. Remove the assembly and drill holes.

[mm]
Inches

- a** Cut frame according to the dimensions in the drawing.
- b** Install the mounting tabs to the frame, but do not fully tighten mounting tab screws.*
- c** After you install the strike, securely tighten the mounting tab screws.



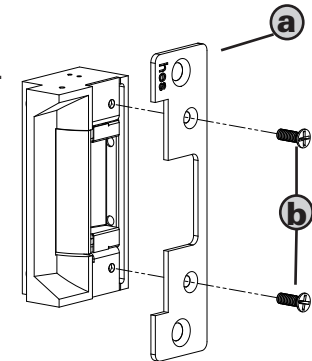
Installer Hint

When using the trim enhancer you will need to make the cutout slightly larger than the actual dimensions given for the strike. This will allow space for the trim enhancer.

Step 8

How do I attach the faceplate?

- a** Place **faceplate** on electric strike body.
- b** Attach the **faceplate** to electric strike body using the **faceplate screws** provided with the **faceplate option kit**.



Step 9

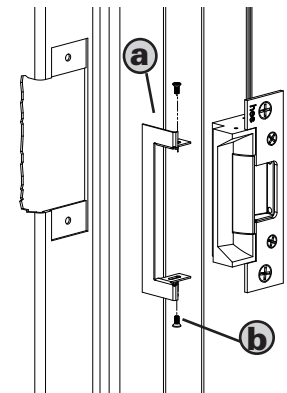
Do you want to use a trim enhancer?

If the answer is **no** continue to step 10.

If the answer is **yes** please follow the instructions below.

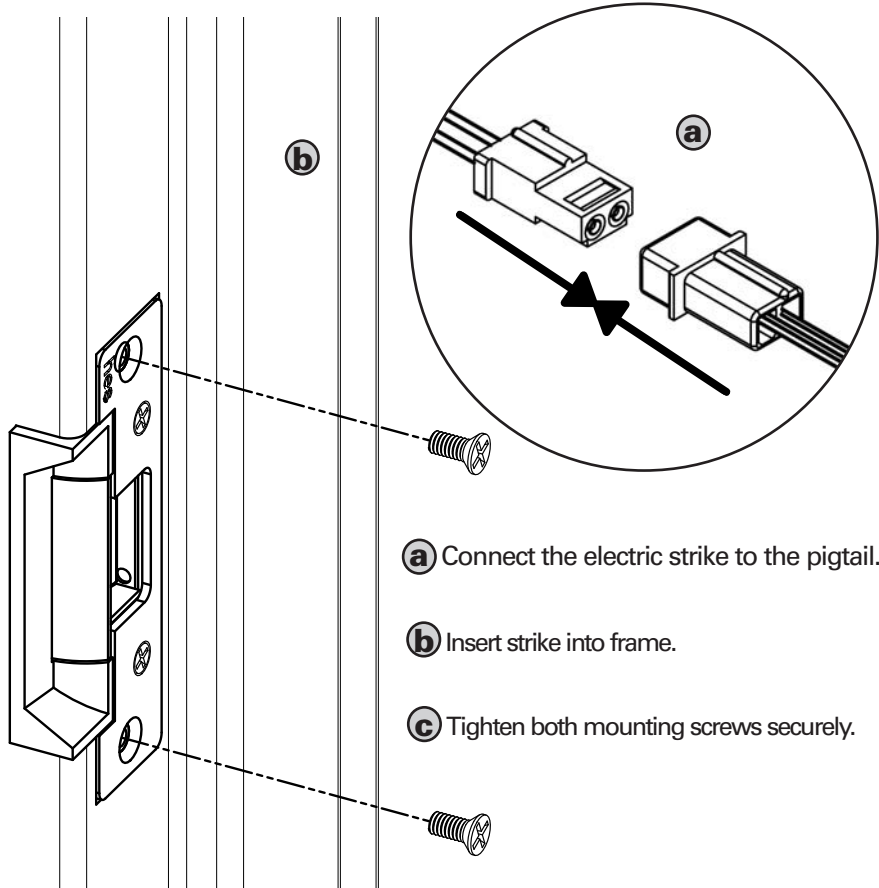
The **trim enhancer** allows the installer to cover up a rough or incorrect sized frame cut.

- a** Place **trim enhancer** on electric strike body.
- b** Attach the **trim enhancer** to electric strike body using the provided **trim enhancer screws**.



Step 10

What are the final steps?

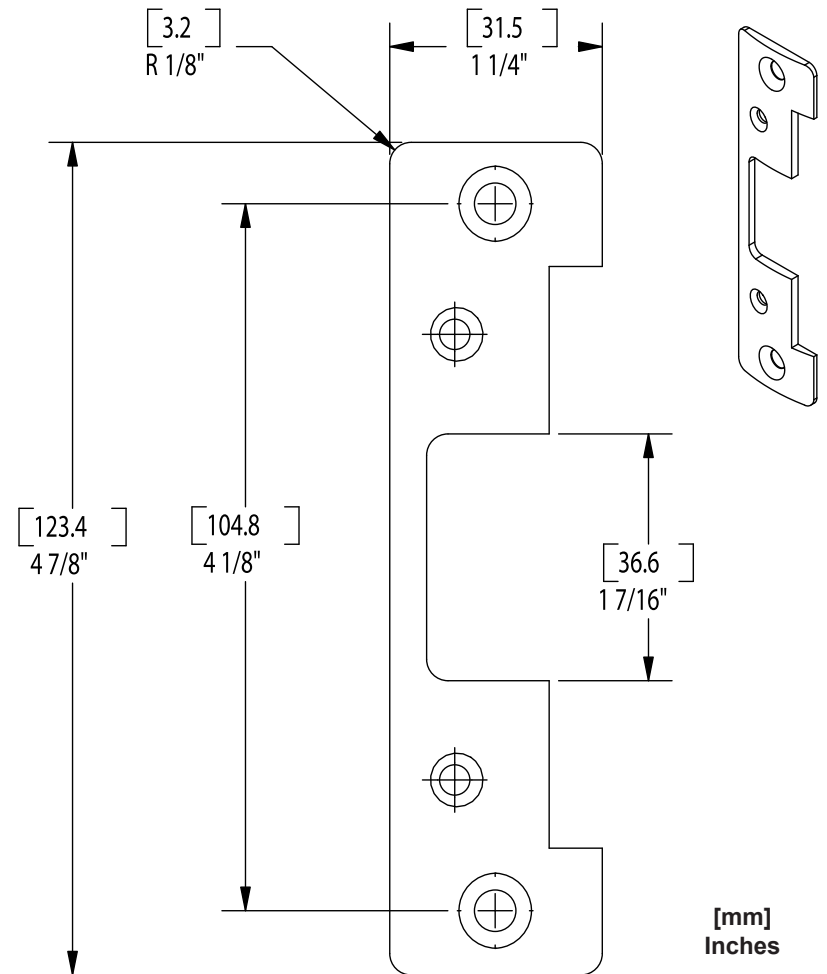


Installer Hint

Veteran installers suggest removing all dust and debris before final installation of the electric strike.

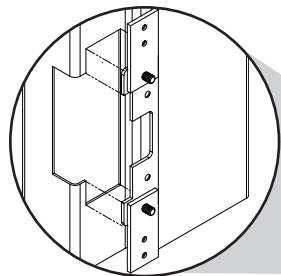
501B faceplate option

What are the faceplate dimensions?



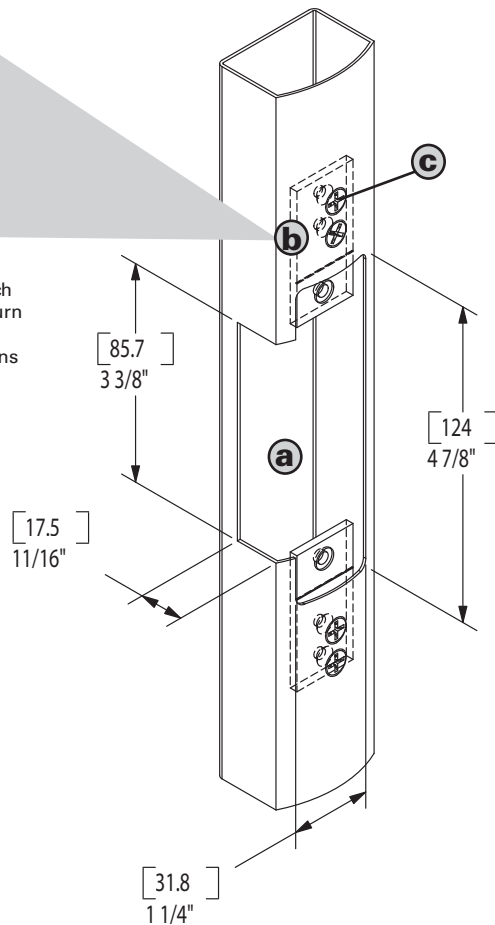
501B faceplate option

What should the cutout be?



beveled aluminum door

*Note: To make it easier to mark the locations for the mounting tabs, attach the mounting tabs to the faceplate, turn the faceplate backwards and insert it into the cutout. Mark the hole locations using the template. Remove the assembly and drill holes.



[mm]
Inches

- a** Cut frame according to the dimensions in the drawing.
- b** Install the mounting tabs to the frame, but do not fully tighten mounting tab screws.*
- c** After you install the strike, securely tighten the mounting tab screws.



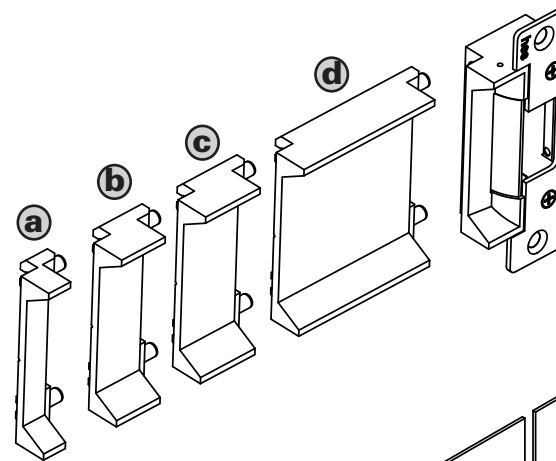
Installer Hint

When using a combination of lip extensions always stack the smallest size to the outside.

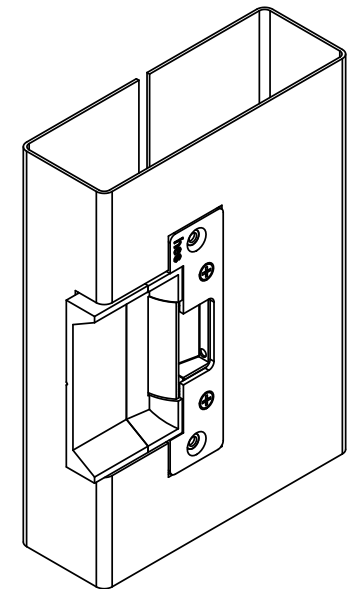
Accessory

Do you require a stackable lip extension?

Stackable lip extensions are press fit and can easily be combined to meet the needs of any jamb width, while retaining the security and finish appearance of the electric strike. To order **stackable lip extensions** please contact our customer support department at 800.626.7590

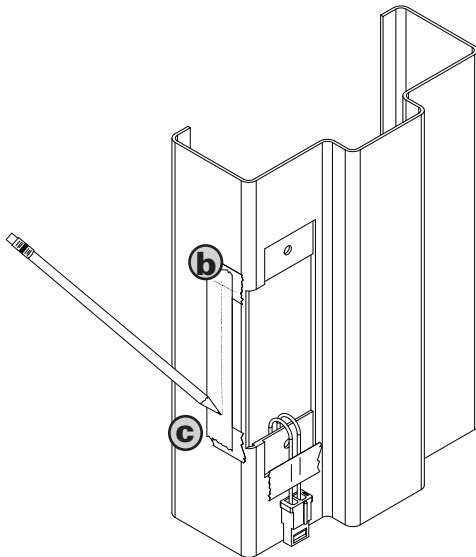
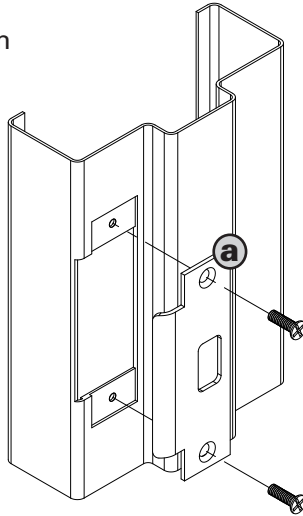


- a** 1/2" - Part Number: 5104-1/2
- b** 1" - Part Number: 5104-1
- c** 1-1/4" - Part Number: 5104-1-1/4
- d** 3" - Part Number: 5104-3



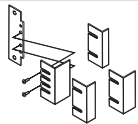
Frame preparation example*

- a** Remove the existing strike plate from the frame by removing the screws.
- b** Mask off the section of the frame to be cut by using masking tape.
- c** Find the cutout dimensions on pages 13-26. Draw your guide lines on the masking tape to show where you will make the needed cuts.



*Note: Frame example with ANSI 4 7/8" x 1 1/4" strike preparation

Want to simplify the process?



HES offers a universal **Metal Template Kit** to simplify the installation procedure. Order the model 154-MTK by calling customer support at 800.626.7590.

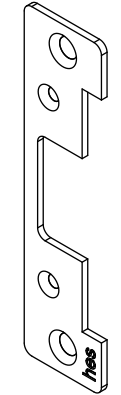
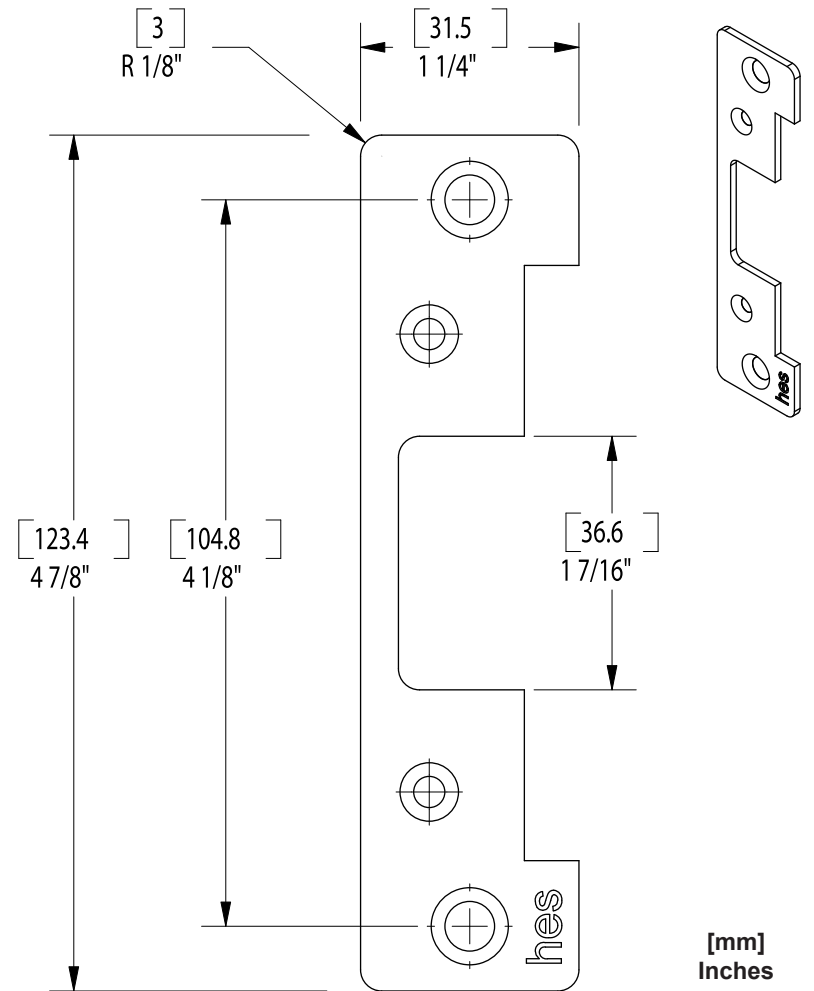


Installer Hint

It is often beneficial to first put masking tape on the door frame where you will be installing the electric strike. The masking tape protects the frame surface from being scratched during the installation process.

501A faceplate option

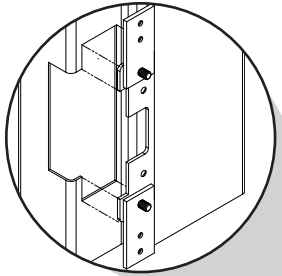
What are the faceplate dimensions?



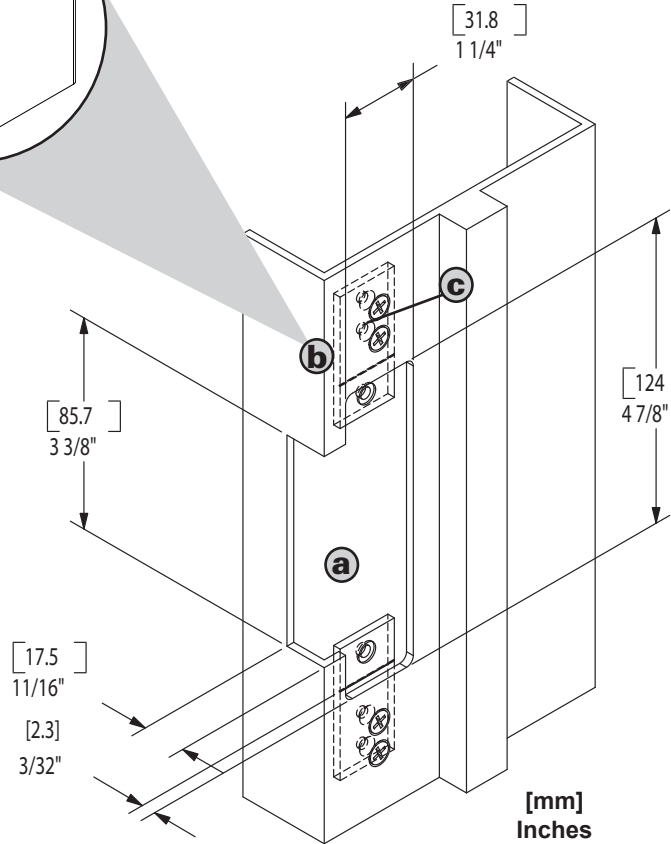
[mm]
Inches

501A faceplate option

What should the cutout be?



*Note: To make it easier to mark the locations for the mounting tabs, attach the mounting tabs to the faceplate, turn the faceplate backwards and insert it into the cutout. Mark the hole locations using the template. Remove the assembly and drill holes.



- a** Cut frame according to the dimensions in the drawing.
- b** Install the mounting tabs to the frame, but do not fully tighten mounting tab screws.*
- c** After you install the strike, securely tighten the mounting tab screws.



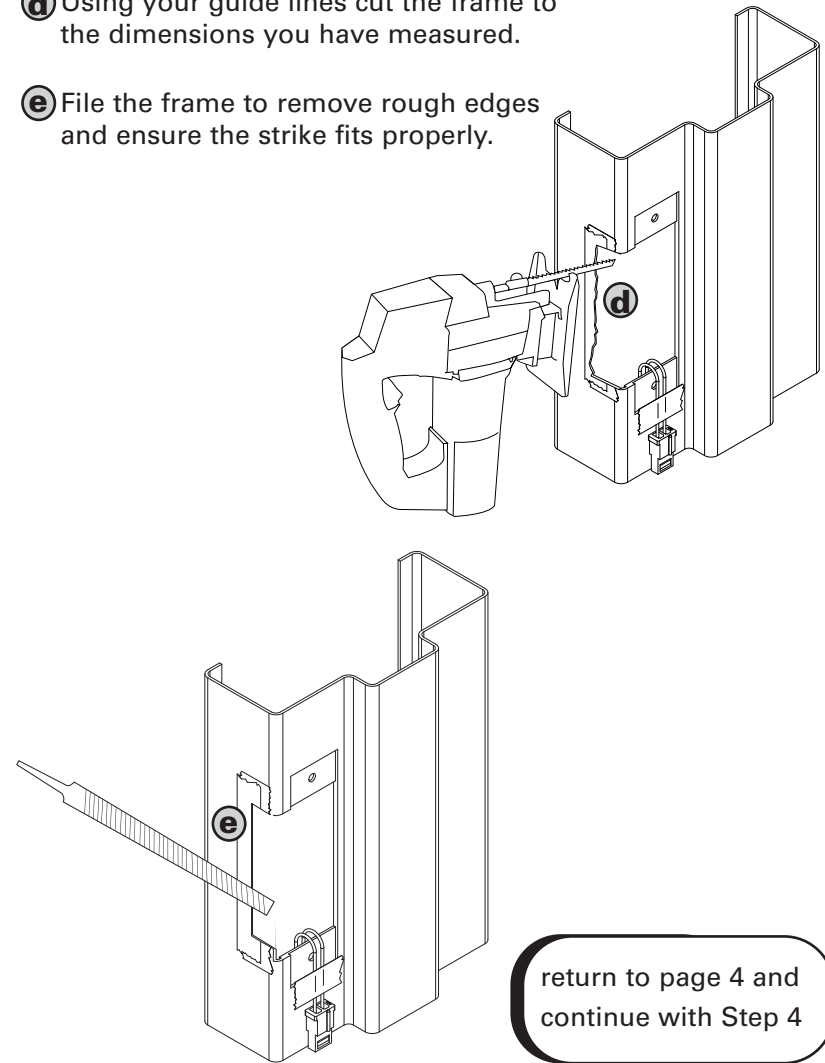
Installer Hint

ALWAYS use eye and ear protection.

Veteran Installers recommend cutting inside the lines and finishing the cutout with a metal file.

Frame preparation example*

- d** Using your guide lines cut the frame to the dimensions you have measured.
- e** File the frame to remove rough edges and ensure the strike fits properly.

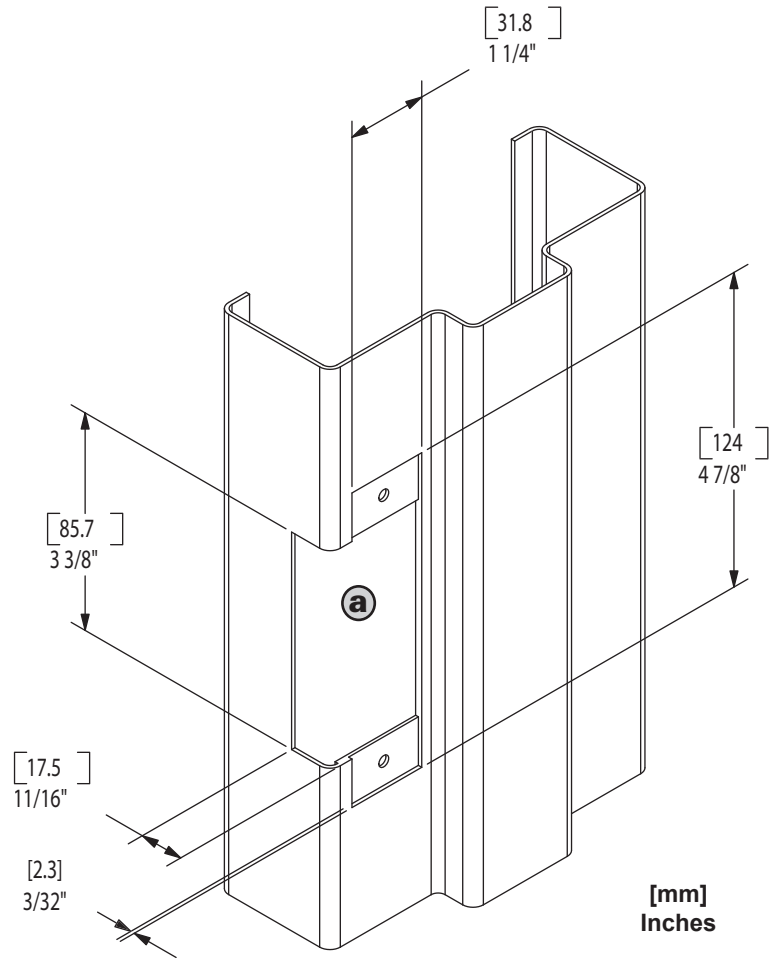


return to page 4 and continue with Step 4

*Note: Frame example with ANSI 4 7/8" x 1 1/4" strike preparation

501 faceplate option

What should the cutout be?



a Cut frame according to the dimensions in the drawing.



Installer Hint

To obtain the best results, always cut well inside the lines and use a metal file to finish off the cutout.

501 faceplate option

What are the faceplate dimensions?

