Installation Instructions

FE5400S(A) Series 3 Point Exit Devices

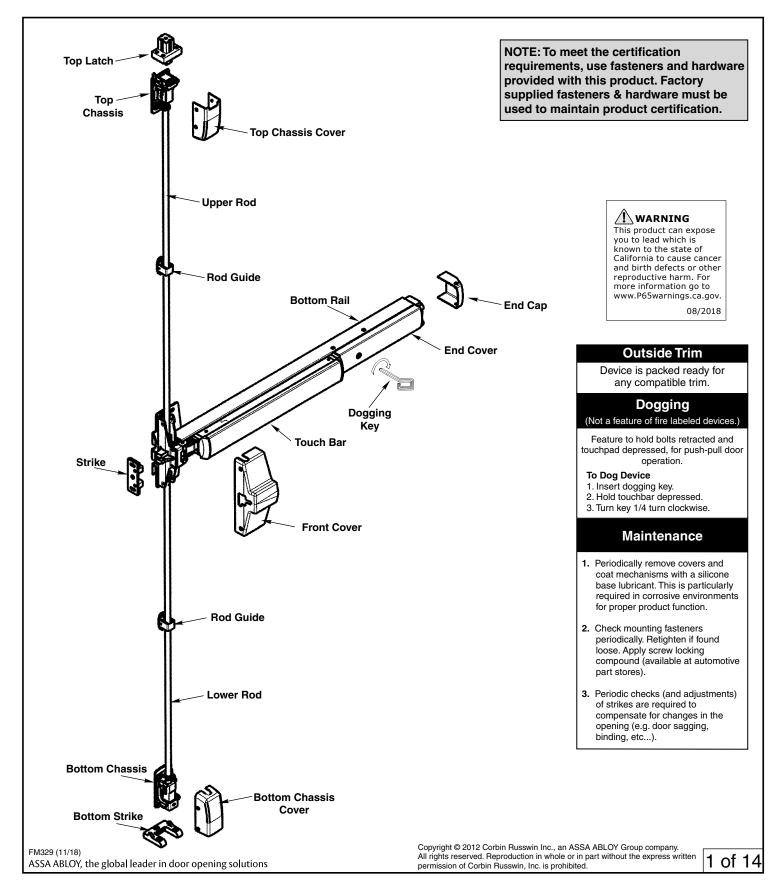
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General Information

This device is intended to be part of an integrated door, frame and hardware assembly ULapproved for both FEMA 361 and ICC 500 guidelines for out swing doors. This instruction sheet will take you through the necessary steps to install this device.



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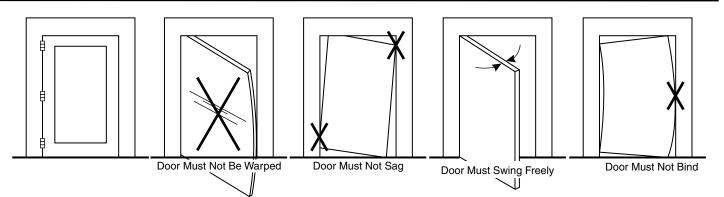
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Step 1: Check Before Starting

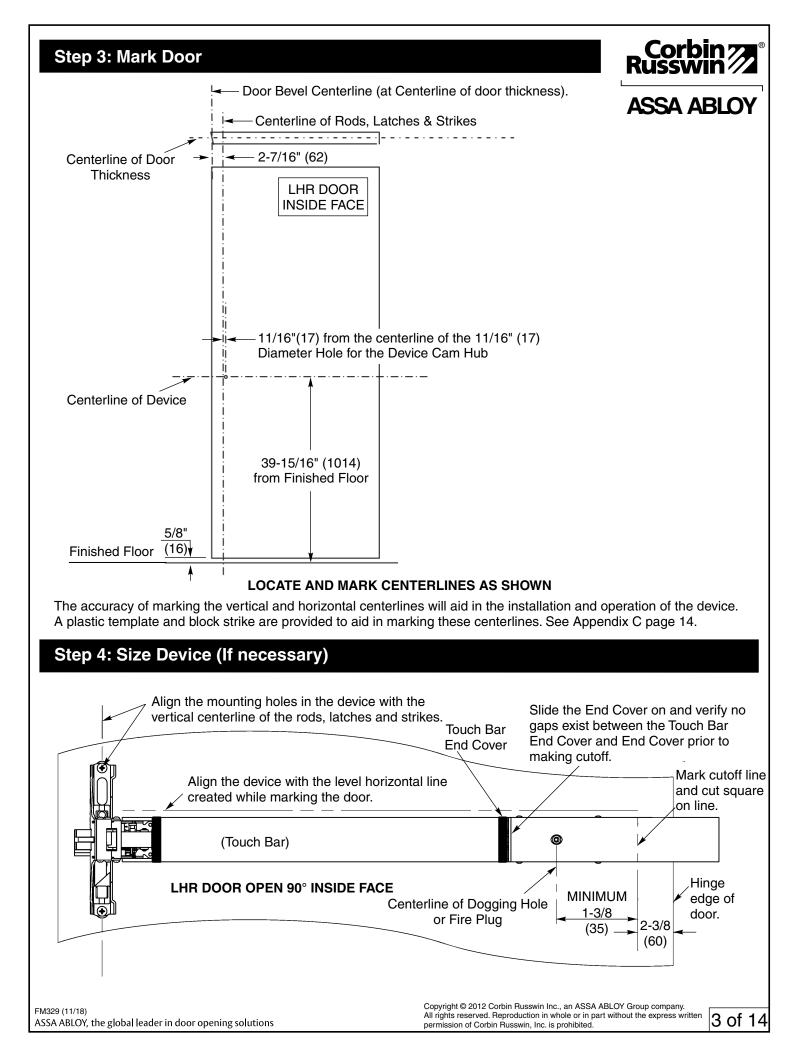


Check to assure that the Top and Bottom latch openings in the frame align with the vertical centerline location for the top and bottom chassis centerline location (refer to page 3 "Mark Door", and Appendix B).

Step 2: Tools Required

Measuring Tape - Power Drill – Level – Square – Center Punch or Center Drill - Hacksaw or any power cutter (to cut rail if necessary) – Screwdrivers (Phillips #2 and #3), Allen Head Hex Wrenches (5/32", 1/8"), Drills (3/8", 1/4", 5/16", 7/16"), Drills and Taps (13/64" or #7 Drill and 1/4"-20 Tap), (11/64" or #16 Drill and #12-24 Tap), (5/32" or #25 Drill and #10-24 Tap).

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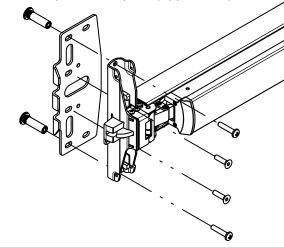
Step 5: Install Device

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When preparing to install device, be prepared to prop the door open during the installation process.

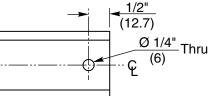
Refer to Appendix A to assure all the holes are in the correct location. Insert two sexnuts into the door from the outside. Align the interlock bracket and device as shown and hand tighten top and bottom 1/4 -20 by 1-1/4" long pan head screws. Hand tighten two 1/4 - 20 by 1" flat head screws into the door. This will require moving the slide to allow the screws to be inserted into the holes with the countersinks. These screws should not be tightened at this time since the interlock bracket will require finer adjustment in step 6.

With the latchhead loosely in place, level the device and mark the position of the 3 holes for the hinge end of the device. Prepare the door per the template (Appendix A).



in the field, a 1/4" (6) diameter thru hole will need to be drilled so that the center sexnut and fastener can be used to secure the end of the device to the door.

End Clamp



NOTE: If the device has been sized

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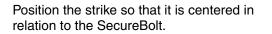
Insert 3 sexnuts into the door from the outside, place the end clamp into the space between the rail and carrier, align the end clamp shim and the end clamp of the device then insert and hand tighten the 3 pan head screws to hold the end clamp and shim of the device to the door.

If device is furnished with the trim, If furnished Figure 1 Figure 2 the two sexnuts for the latchhead will with trim, (2) Screws and * Trim must be un-locked. not be used. The outside trim studs washers bolt trim (Tailpiece fully extended) assure that Α to door using will be used to thru bolt the device to the spindle à ®в **Device Mounting** holes "B". the trim. If trim is furnished, it will be from the trim Surface Tailpiece (T) supplied with two more 1/4 -20 by 1-(See Note) is engaged engages with 1/4" oval head screws that will be with the hub cross hole of required for thru bolting the trim. on the cam slot. 5/16Hold These will be used in the two slots of Cut per Fig. 2. latchhead. (8) ®в the interlock bracket that are not Cut Line Device is bolted under the latchhead. Refer to the to trim using LHR Door trim template for hole placement for NOTE : Measure from device seat holes "A" (closest Shown to door lock edge). (door face or shim surface) the 2 additional holes required. **FASTENERS:** 1.556 1-1/4" #1/4-20 Sexnut 7/16" dia. #1/4-20 Pan Head Machine - Phillips #1/4-20 Flat Head Machine - Socket Copyright © 2012 Corbin Russwin Inc., an ASSA ABLOY Group company. FM329 (11/18) All rights reserved. Reproduction in whole or in part without the express written permission of Corbin Russwin, Inc. is prohibited.

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Step 6: Install Device Strike

To install the device strike (Fig. A), check to assure the device is level.



Add spacers so that you will achieve the clearance shown in (Fig. B) on the next page, as well as allow the 3 interlock bracket tabs to engage the strike.

> Add strike block for single door application only.

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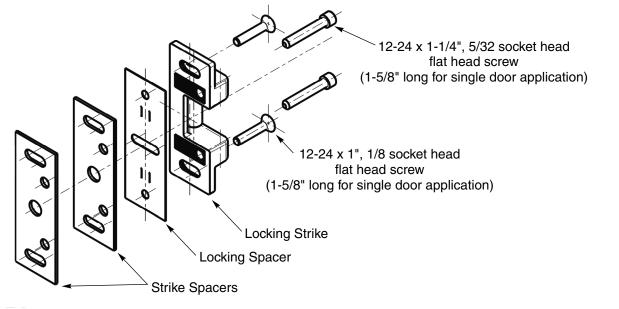
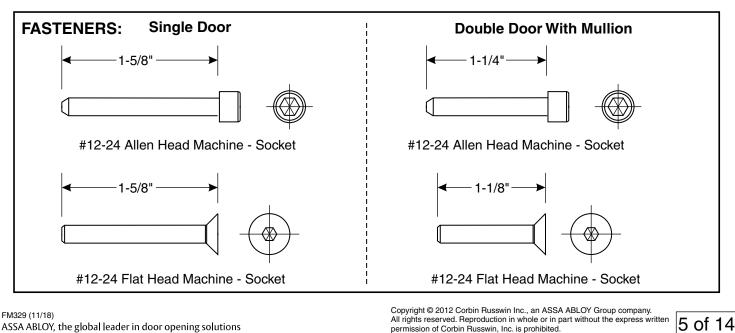


Fig A



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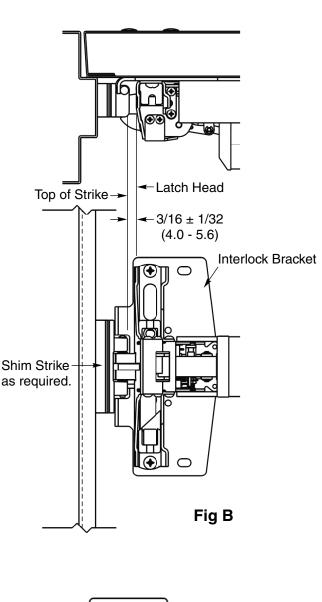
Step 6: Install Device Strike (continued)

The interlock bracket does have some side to side adjustability that will allow a final adjustment after clearance between the strike and latch head is achieved. This adjustability will require the 4 latch head fasteners to be loosened allowing the interlock bracket to slide into the proper engagement with the strike. Mark the door frame to establish the vertical position of the strike. Its centerline should be on the same centerline as the device.

With the door in the closed position, adjust the strike's position so that when the door is closed, the SecureBolt will be just touching the roller of the strike. This will allow the Securebolt to retract freely when the door is closed. Using the top and bottom slots of the strike (Fig C) center your punch in the middle of the slot and mark the two locations for the 12-24 x 1" Flat Head screws for the strike. Drill and tap these two locations. DO NOT DRILL AND TAP the other two screw locations at this time. Recheck the alignment to the centerline of the device.

Reassemble the strike assembly and finger tighten the flat head screws using a 1/8" allen wrench so that final adjustments can be made. Check to assure you have the proper clearance between the strike and the latch head, the interlock bracket is engaged with the strike and the SecureBolt is not pressing against the roller of the strike. When you have made all these adjustments you may tighten the mounting screws so that the device is securely fastened to the door. Retract the SecureBolt, open the door. Using the strike as a drill guide drill thru the Locking spacer and let your drill mark the two locations for the 12-24 x 1-1/4" 5/32 Socket Head Cap Screws. Remove the strike assembly and drill and tap these two locations. Reassemble the strike assembly and secure it to the frame. Recheck the clearances to assure no further adjustments need to be made.

Check the operation of the device to assure that the strike is aligned properly with the device.



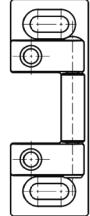


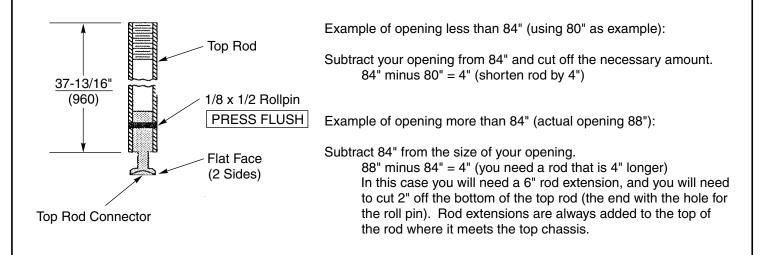
Fig C

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Step 7: Prepare Top Rod

Product comes with the top rod for a 7 foot (84") high opening. If your opening is less, the top rod will need to be shortened. If your opening is more, than an extension will be required and adjustment may or may not be necessary.

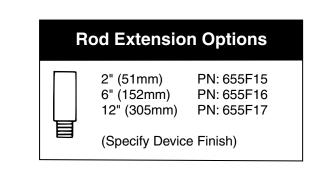


To Lengthen Rods

- Use Rod Extension(s) to extend Rod to length needed or longer (2", 6", or 12" Rod Extensions available).
- Cut excess length from the end of the top rod with the rollpin hole.

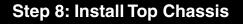
To Cut Top Rods

- Cut from end with pin hole. NEVER CUT THREADED END.
- Press Jig until it bottoms over Rod.
- Drill 1/8" dia. hole thru, 3/8" (10) from the end of the shortened top rod. Use jug provided to assure accurate distance.



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Prepare the top of the door per the door template Appendix A. Check alignment of the top latch location in the frame to assure it lines up with the Top Chassis pusher.

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Pusher

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Flush

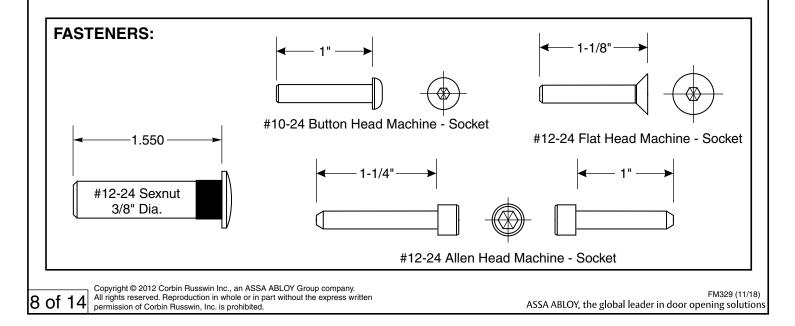
Insert two 3/8" dia. sexnut into the holes on the outside of the door. \mathbb{Q}

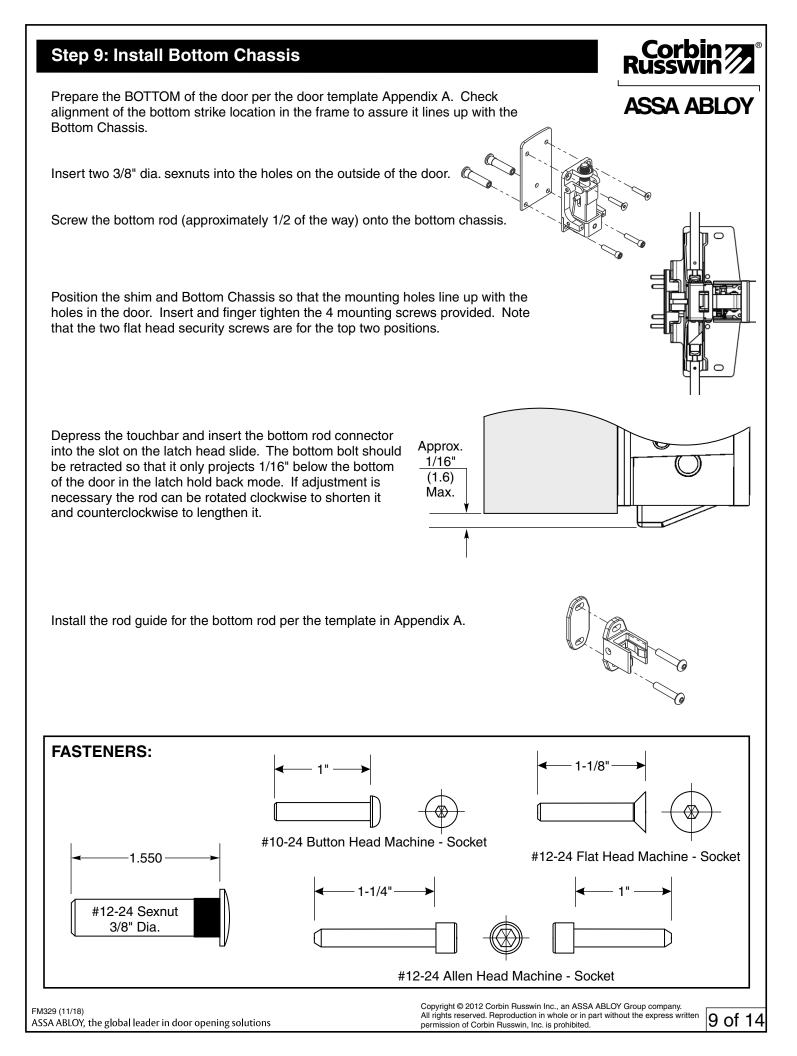
Screw the upper rod (approximately 1/2 of the way) onto the top chassis.

Position the shim and Top Chassis so that the mounting holes line up with the holes in the door. Insert and finger tighten the 4 mounting screws provided. Note that the two flat head security screws are for the lower positions.

Depress the touchbar and slide the top rod connector into the slot on the latch head slide. With the touchbar depressed the top slide pusher should be flush with the top reinforcement. If adjustment is necessary the rod can be rotated clockwise to shorten it and counterclockwise to lengthen it.

Install the rod guide for the upper rod per the template in Appendix A.



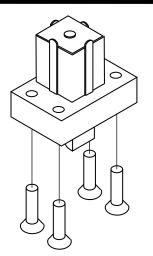


Step 10: Install Top Latch

Check the alignment of the top latch location on the frame to assure it will line up properly with Top Chassis on door. The pusher in the top chassis is designed to push the top latch up when the touchbar is depressed.

Install the top latch to the frame using the 4, 1/4-20 by 1" Flat Head Allen Socket Head (5/32" Hex Key) Cap Screws provided. The 5/32 hex key has been provided with the device.

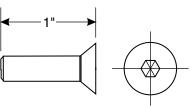
If the frame has not been prepared for installation refer to Appendix B page 13 for preparing the frame.





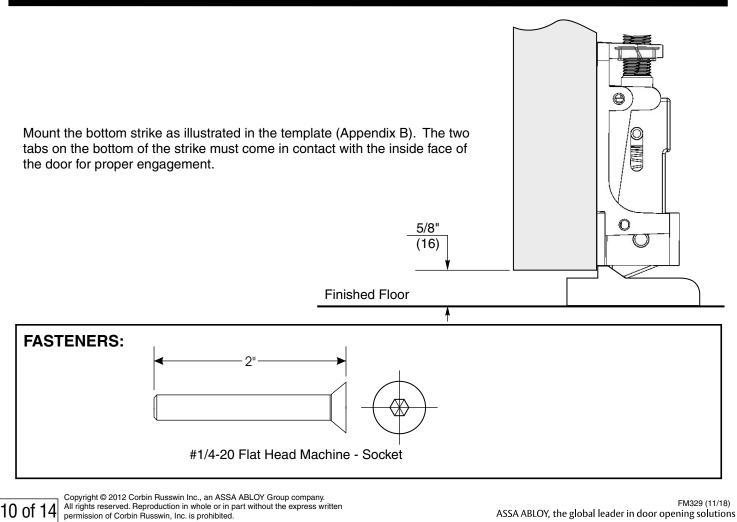
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FASTENERS:



#1/4-20 Flat Head Machine - Allen Socket Head

Step 11: Install Bottom Strike



Step 12: Install Covers

Check to assure all latches are working properly before the covers are installed.

To install the end cover, position the bar cap into the side facing the touchbar and place the end cover's lower edge into position on the rail. Rotate the upper edge on the end cover up and snap it into the rail. The holes for the end cover will line up with the fastener holes in the rail. Secure the end cover with (4) #8 by 1/2" fasteners provided. (2 on top and 2 on bottom.)

Place the end cap into position on the end of the rail and secure with the three #8 by 1/4" long fasteners provided.

Place the front cover over the latch head assembly and secure with the two #8 by 1/4" long fasteners provided.

Place the top chassis cover over the Top Chassis and secure with the four #8-32 by 5/16" long fasteners provided.

Place the Bottom Chassis Cover over the Bottom Chassis and secure with the four #8-32 by 5/16" long fasteners provided.

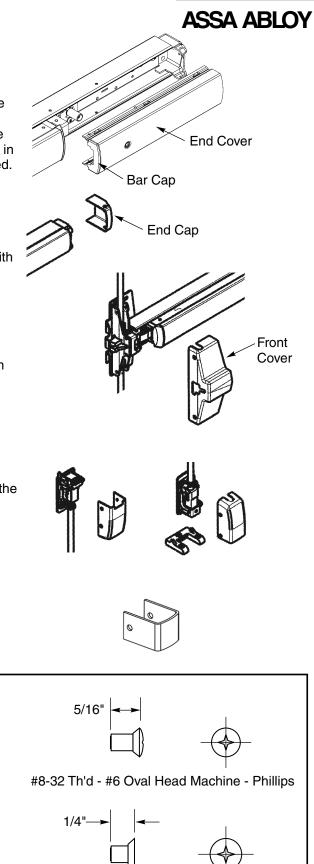
Place the top and bottom Rod Guide Covers over the Rod Guides and fasten each cover with #6 by 3/8" long fasteners provided.

FASTENERS:





#6 Truss Head Tapping - Phillips - Type A



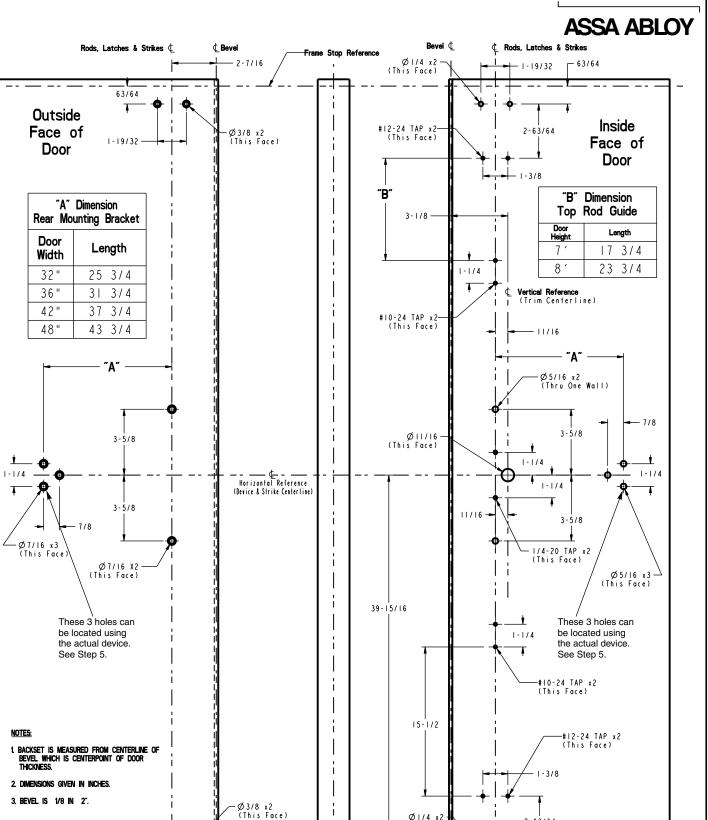
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#8-32 Flat Head Undercut Machine - Phillips

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Appendix A - Door Template



Ø1/4 x2

(This Face)

5/8

⊈ Centerline Of Door Thickness

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1-19/32 -

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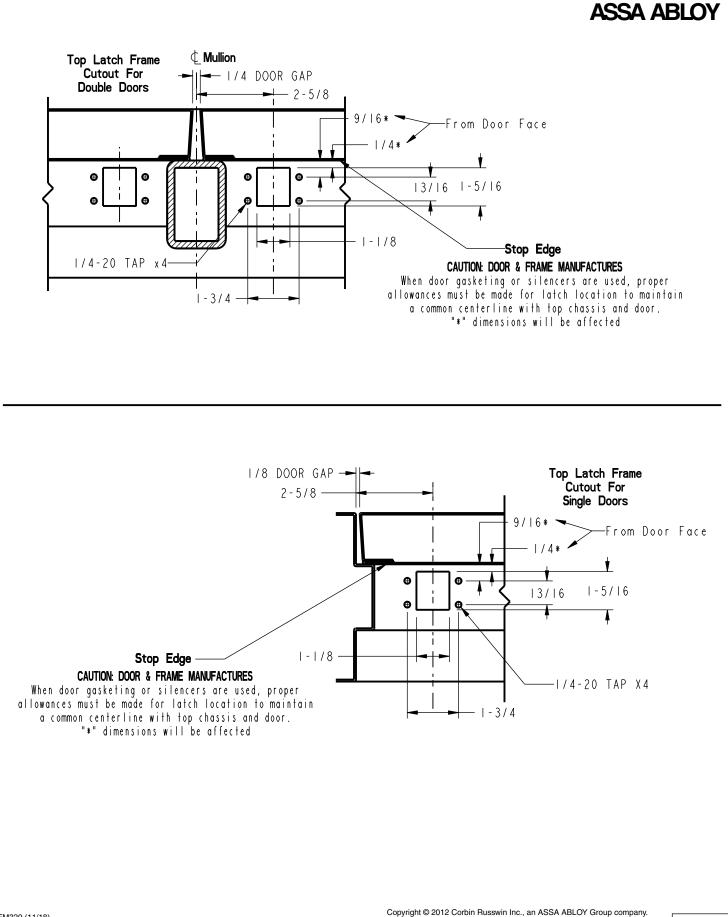
Finished Floor

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- 1-19/32

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Appendix B - Top Frame Template



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Appendix C - Plastic Template

A plastic template has been provided with the exit device that can be used to accurately mark the vertical centerline that will be used to locate the vertical rods, top and bottom latches and the rim device to the door.

Centerline Rods, Latches & Strikes LHR G For single door installations use the block strike and plastic template as shown to accurately mark the vertical centerline. For double door installations remove the block strike and use only the plastic template. Block Strike (single door applications only) Horizontal Centerline **Plastic Template** for Device and Strike яня C After marking the vertical centerline swing the door to

After marking the vertical centerline swing the door to the closed position and visually check to assure that the vertical centerline of the rods, latches & strikes will align with the center of the cut out for the top latch in the frame.

Centerline of 11/16" diameter hole for the device cam hub.

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