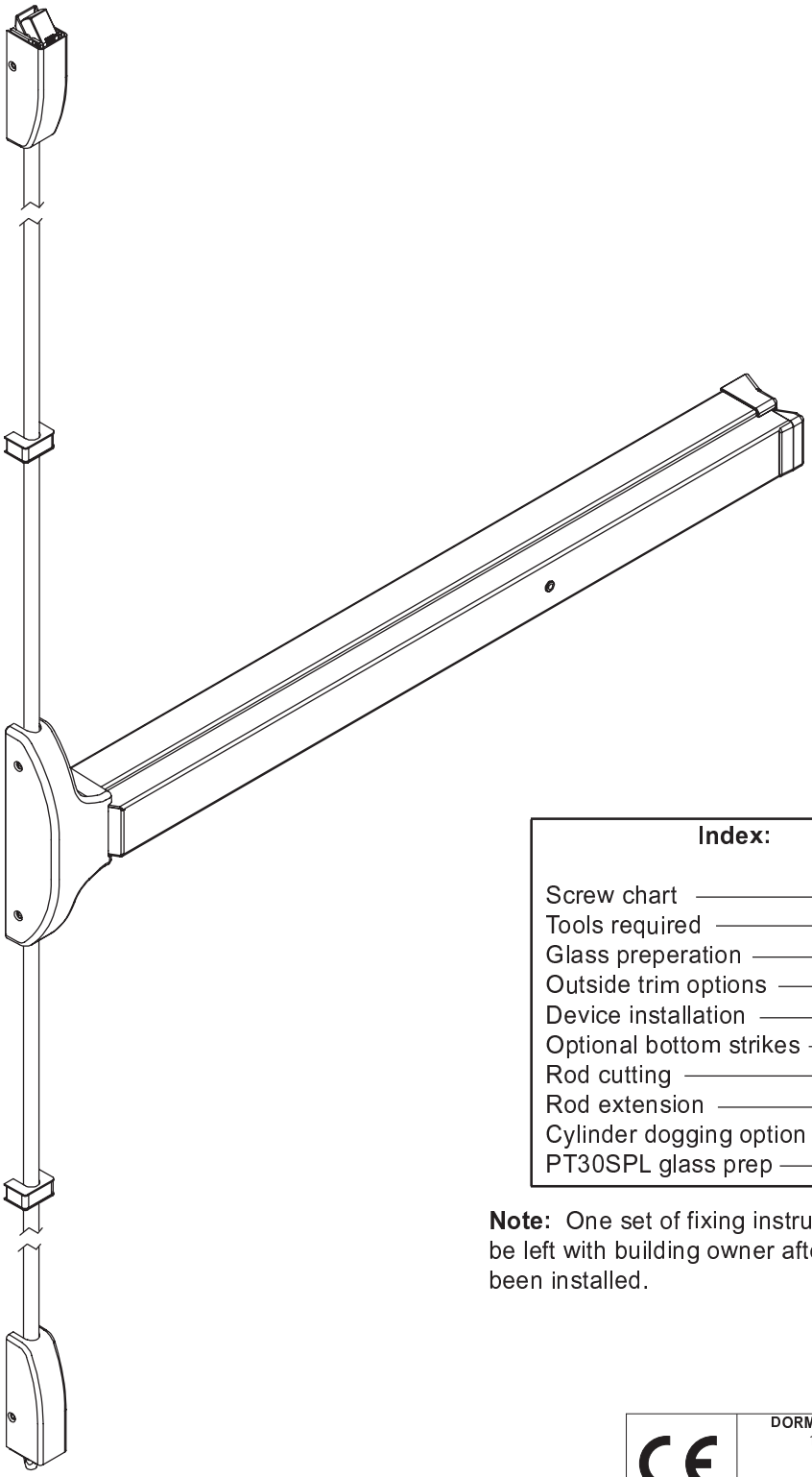
950xxxx I9800TGD-1 11/2011

9800FLTGD (TEMPERED GLASS DOOR) SERIES PANIC BOLT



Index:

Note: One set of fixing instructions should be left with building owner after device has been installed.

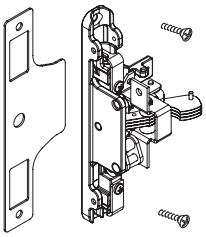
EN 1125 CLASSIFICATION NUMBER FOR THIS PRODUCT

3	7	6	0	1	3	2	2	B	A

CE
9800FL AAA028
2011

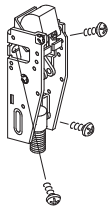
DORMA Architectural Hardware
1003 West Broadway
Steeleville, IL 62288
BS EN 1125 : 2008
European Norm Standard for Panic Exit Devices Operated By A Horizontal Bar.
Product Classification 3,7,6,0,1,3,2,2,B,A
Certification Body Ref Nr : 1121

SCREW CHART

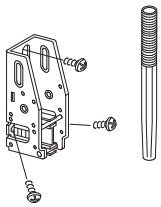


(2) 1/4-20 x 1 1/2" (38mm) F.H.P.M.S. (12-15mm glass) — Chassis Mounting
(2) 1/4-20 x 1 1/4" (32mm) F.H.P.M.S. (10-12mm glass)

(2) 10-32 x 3/8" (10mm) R.H.P.M.S. — End Cap Bracket

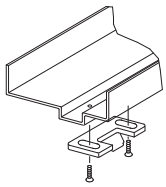


(3) 10-32 x 3/8" (10mm) P.H.P.M.S. — Bolt To Door

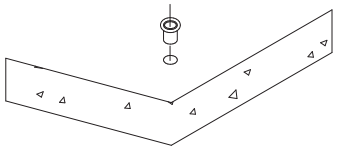


(3) 10-32 x 3/8" (10mm) P.H.P.M.S. — Bolt To Door

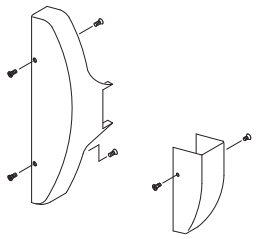
(2) 8-32 x 1/2" (13mm) R.H.P.M.S. — Rod Retaining Clip Mount



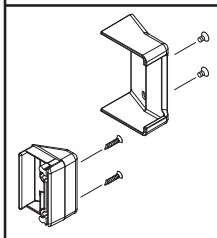
(2) M5 O.H.P.M.S. (Metal) — #AD426 Keep Pack
(2) #12 x 25 F.H.P.T.S. (Wood) — #AD426 Keep Pack



#AD439 Bottom Keep (Cement or Grout In Place)

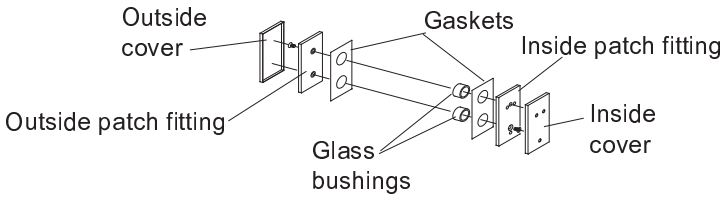


(10) 8-32 x 1/4" (6mm) F.H.P.M.S. — Chassis Cover, End Cap & Latch Covers

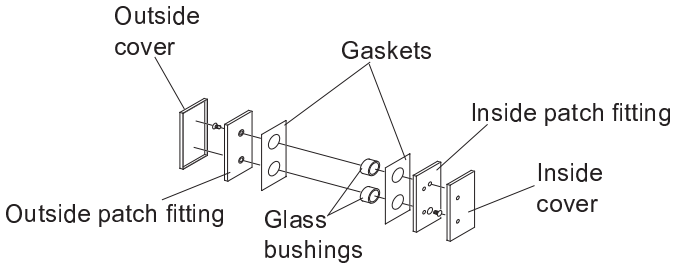


(2) 8-32 x 3/8" (9.5mm) F.H.P.M.S. — End Cap Mounting
(2) #10 x 25 F.H.P.T.S. — End Cover Mounting

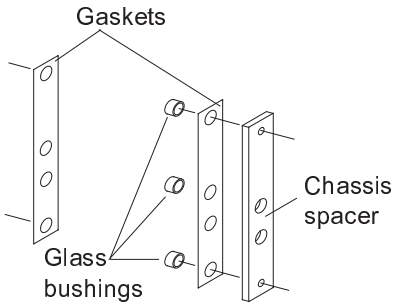
GLASS PATCH FITTING PARTS



Top bolt patch fitting assembly, mounting screws provided with patch fitting.

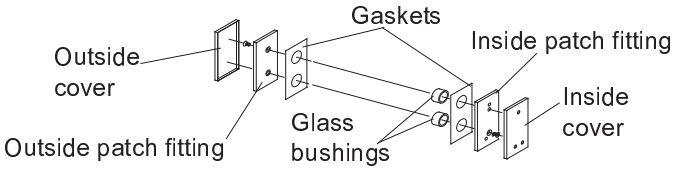


End cap fitting assembly, mounting, screws provided with patch fitting.



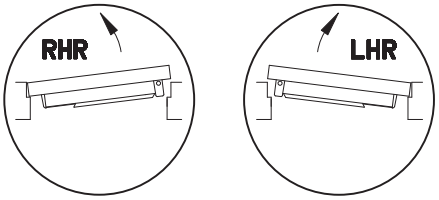
Chassis patch fitting assembly mounting screws provided with chassis assembly outside trim required.

Note: Patch fitting torque of no more then 12Nm for attachment to glass door.



Bottom bolt patch fitting assembly, mounting screws provided with patch fitting.

HANDING OF DOOR



Read the entire instruction sheet prior to installation.
Before Installing Hardware:

1. Verify door width, handing and product with carton label for correct exit device and length. (See Step 1)

2. For hand reversal of chassis see page 6, for outside lever trim see page (5).

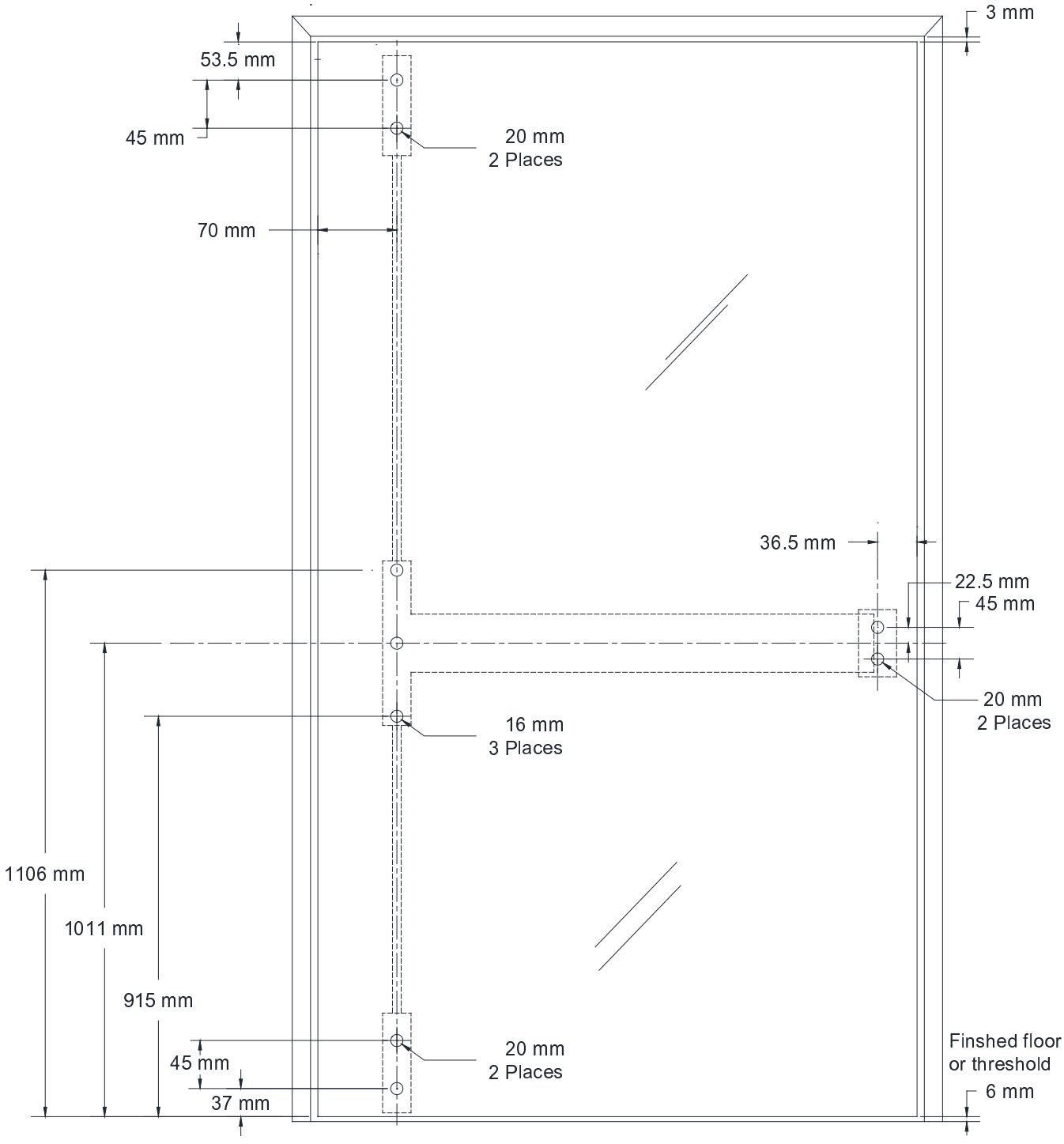
3. For less bottom rod device, delete bottom latch installation steps.

Note: Less bottom rod device is not recommended where security is a primary concern.

SPECIAL TOOLS FOR FIXING

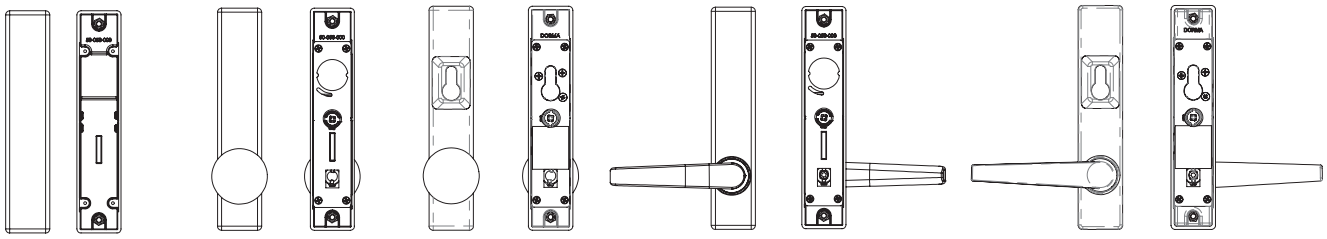
M5 - Tap, M6 - Tap
Drill bits: 3.8mm, 4.2mm, 10mm, 13mm, 25mm & 38mm
5/32" Allen wrench for lever trim.
Cross point screw driver
Hack saw

GLASS PREPARATION



TYPICAL OUTSIDE TRIM INSTRUCTIONS

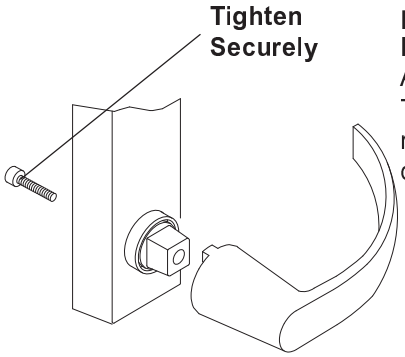
LHRB TRIM SHOWN RHRB OPPOSITE



ZODTTGD ZK23TGD ZK08/09EPTGD ZR23TGD ZR08/09EPTGD

IMPORTANT

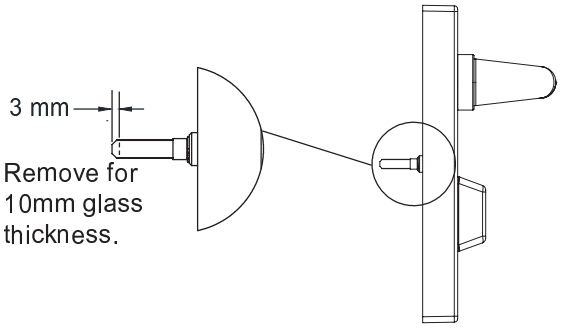
Note: All lever handles except for "clutch" are shipped unattached. To install; **Place handle in desired position and attach with allen screw located in back of trim plate.** 5/32" Allen wrench required.
To change hand on "clutch" trim rotate and "break" lever around to desired hand.



All trims are free wheeling.
(Handle will rotate when locked.)

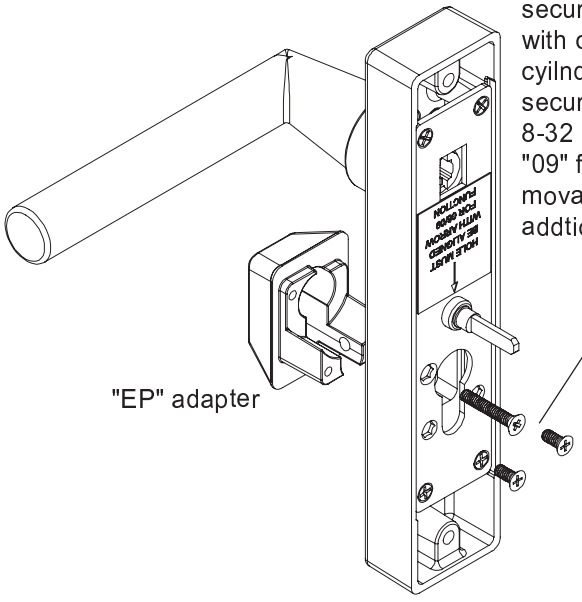
IMPORTANT

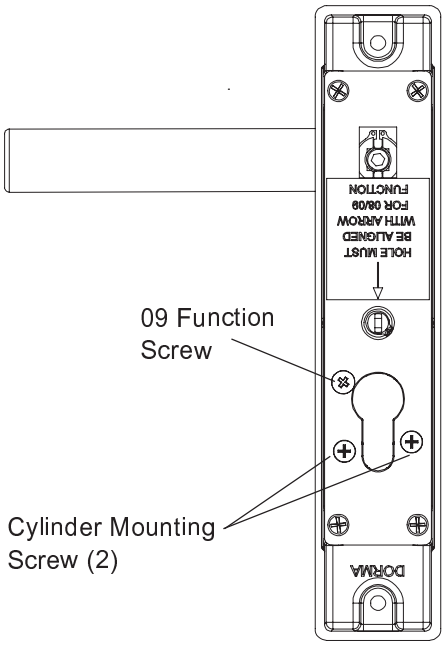
NOTE: Standard tail piece as shipped will fit 13-15mm thick glass. For 10-12 mm glass it will have to be shortened by approximately 3mm. See below.



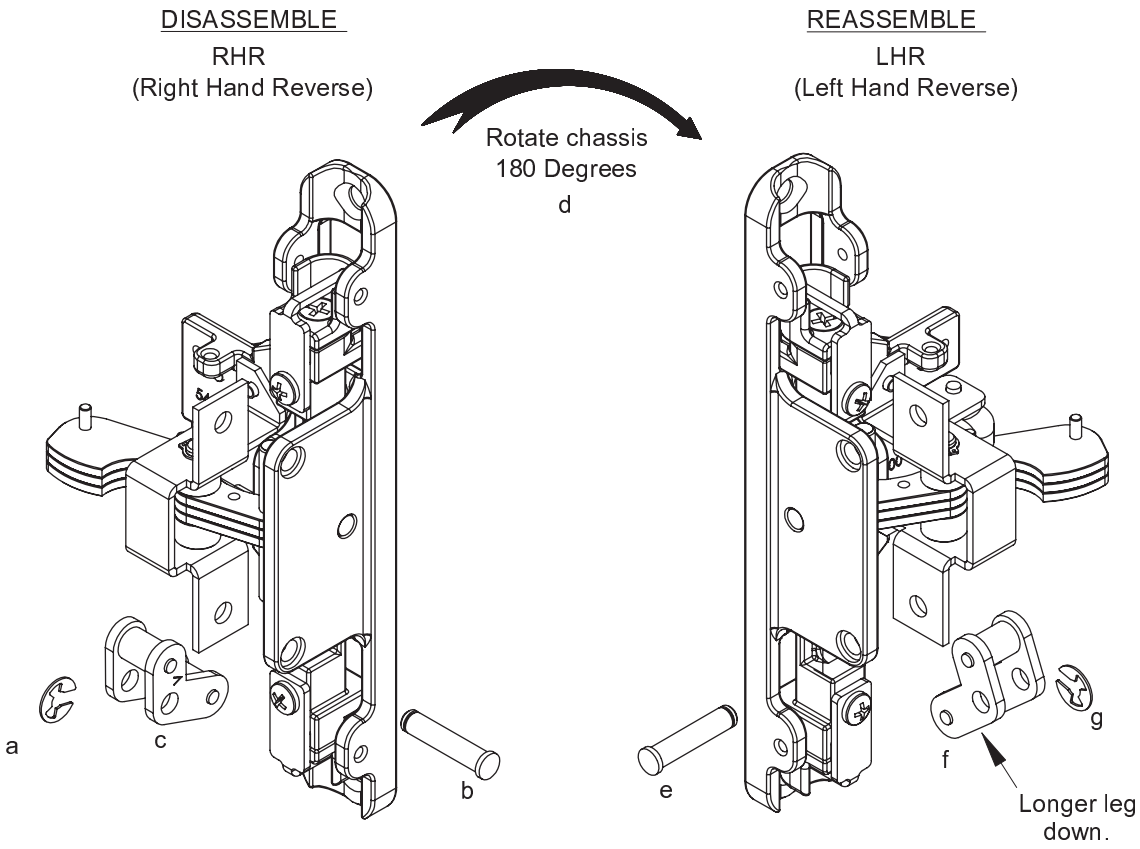
Fixing of "EP" cylinder

Insert "EP" cylinder into adapter, secure with set screw supplied with cylinder. Insert adapter/ cyilnder assembly thru trim and secure assembly with (2) 8-32 screws as shown. For "09" function (key only re-movable when locked) insert addtional 8-32 screw as shown.

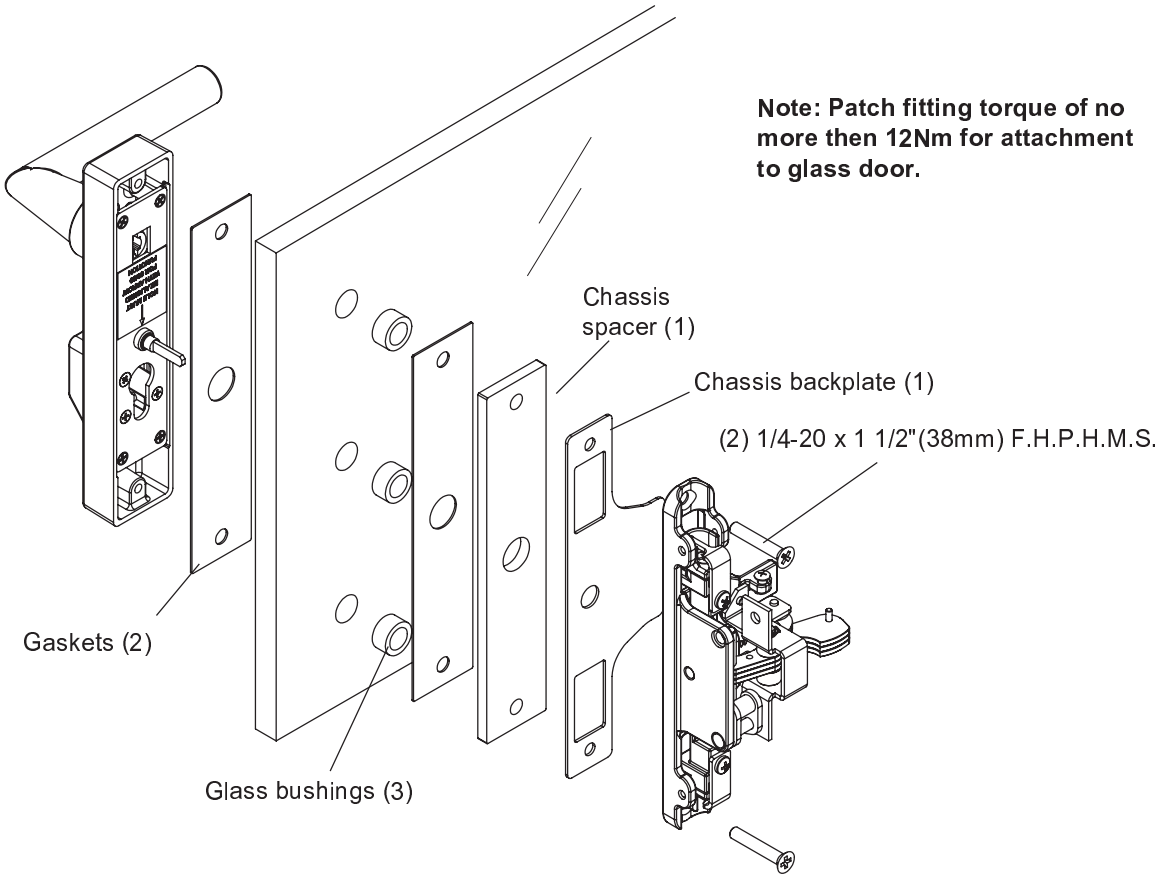




HANDING REVERSAL



1 Once handing of door has been verified with chassis assembly, install chassis and outside trim to push side of door using bushings, gaskets and spacer as shown below, secure with screws provided.



Note: Patch fitting torque of no more then 12Nm for attachment to glass door.

2 Prepare to install touch bar and rail on door.

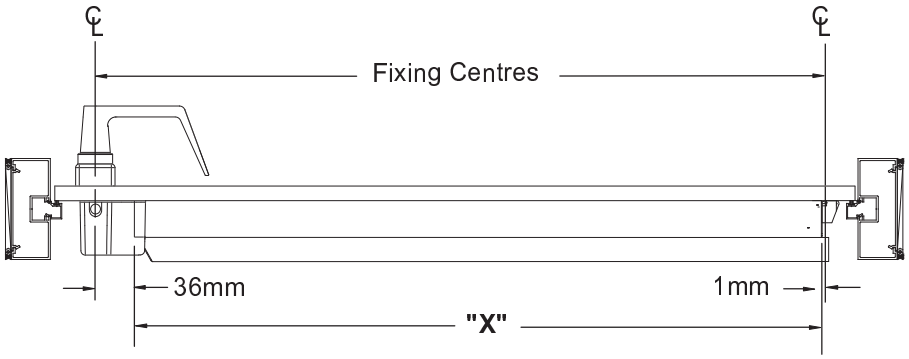
NOTE: Verify strikes, stile width, any trim and stop height prior to making any cuts. Cutting is required for glass door applications.

Size AA:
Fits 1220mm door opening with minor cutting.
Can be cut to fit a 838mm minimum door opening.
Size BB:
Fits 915mm door opening with minor cutting.
Can be cut to fit a 686mm minimum door opening.
Size CC:
Fits 915mm door opening with minor cutting.
Using a shorter touch pad then the standard "BB" size allows it to be cut to 610mm door opening.

Standard factory rail length.
A = 1105mm
B = 800mm
C = 800mm
D = 800mm

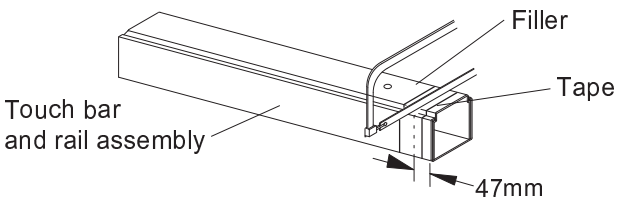
Verify device length with box label; "AA", "BB" or "CC", ie. 9800FLTGD BB

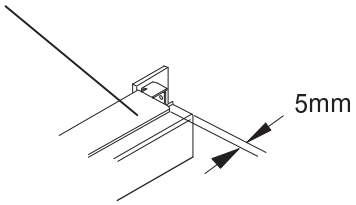
Example:



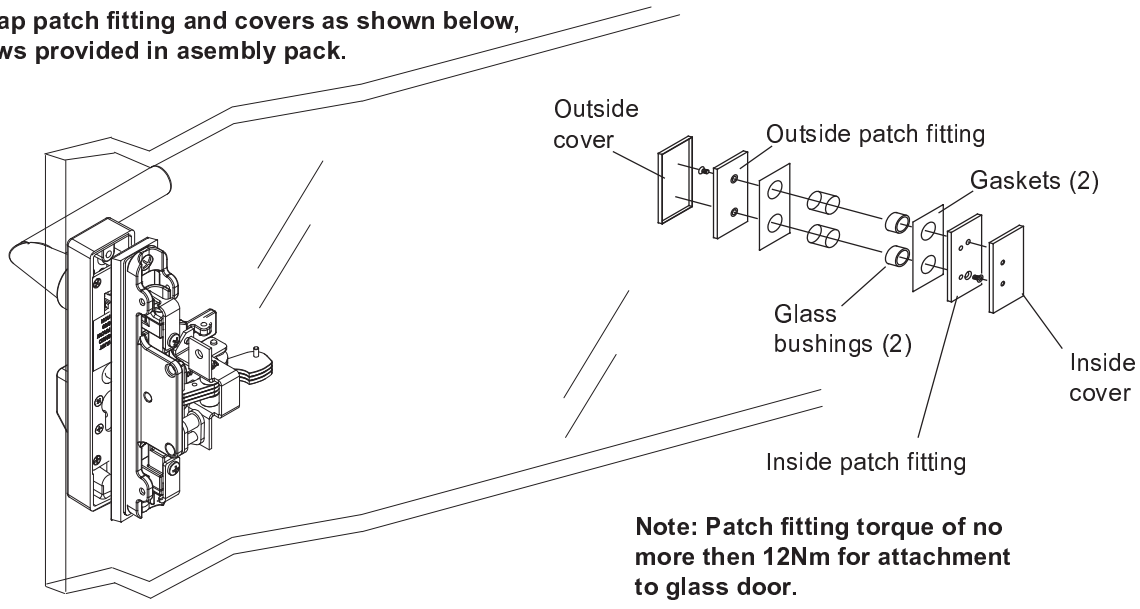
Cutting length "X" = Fixing centre - 37mm

Note: Glass door applications will require cutting of the standard length **"FL"** touch bar and rail assembly. Depress touch bar as shown, tape and cut to length as shown. Touch bar should be approximately 5mm longer then rail once it is released to upward position.





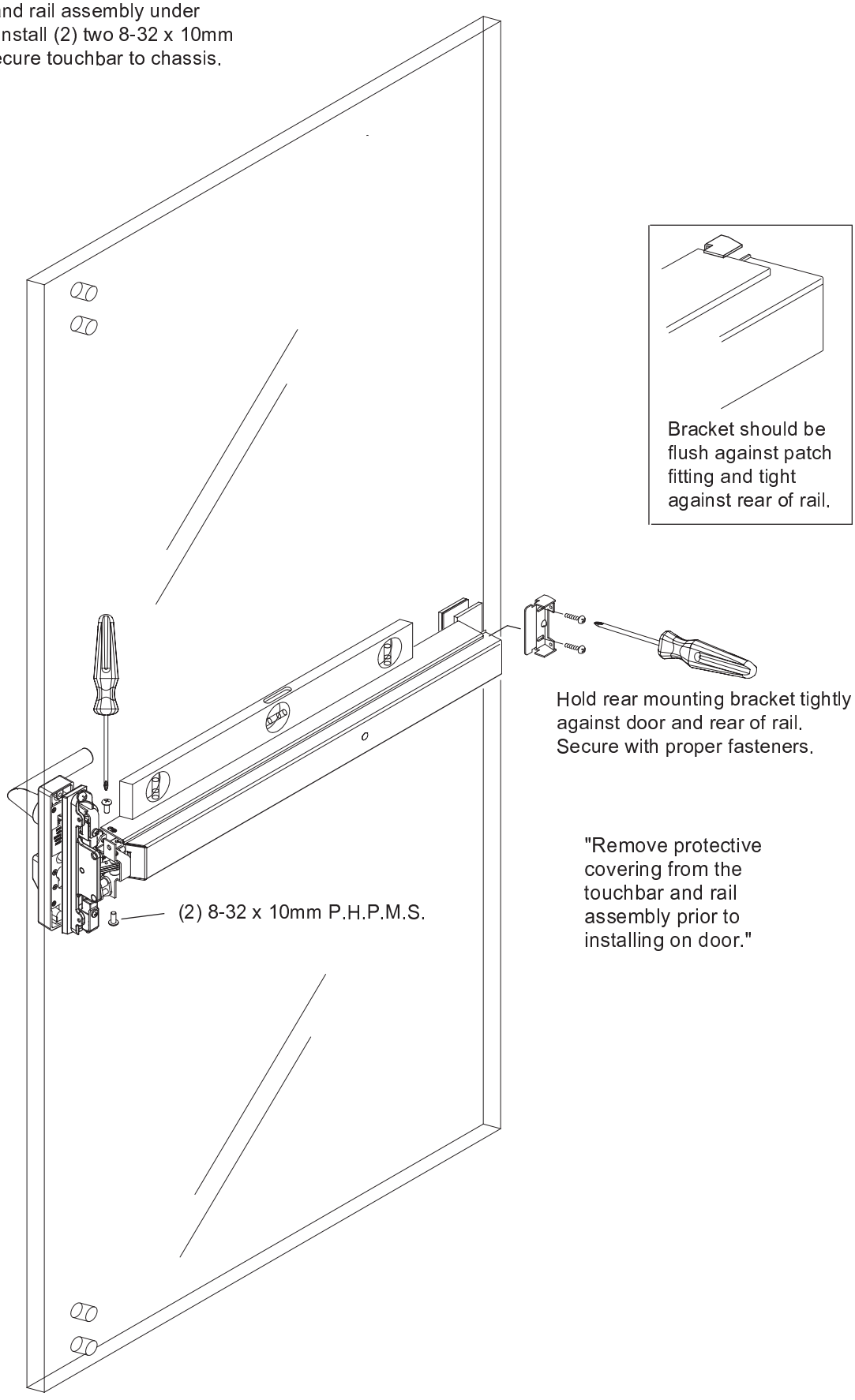
3 Install rear end cap patch fitting and covers as shown below, secure with screws provided in asembly pack.



Note: Patch fitting torque of no more then 12Nm for attachment to glass door.

4 **Install touch bar and rail assembly and end cap to door.**

Remove two 8-32 screws from chassis, slide touch bar and rail assembly under rear of chassis. Install (2) two 8-32 x 10mm P.H.P.M.S. to secure touchbar to chassis.



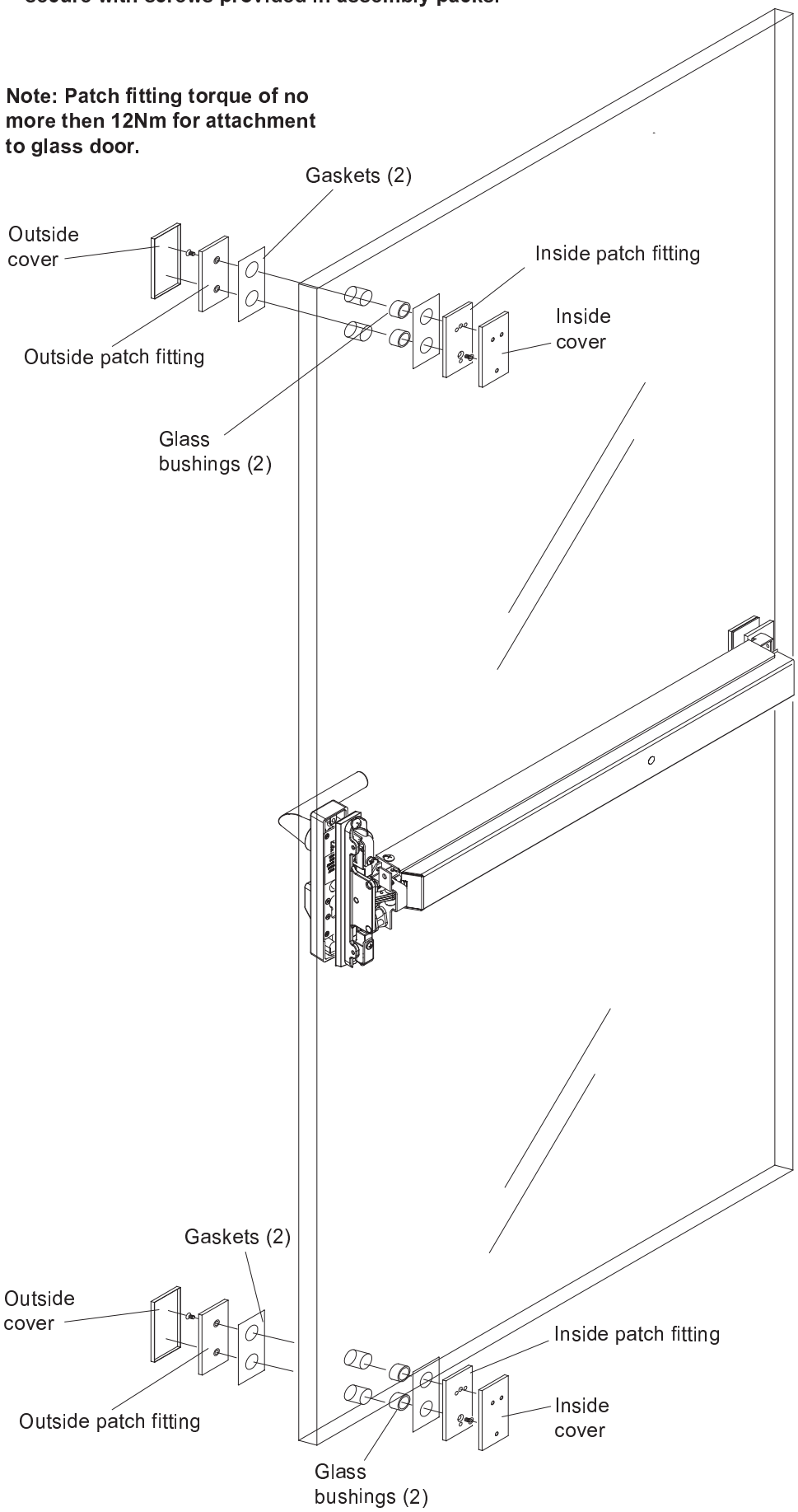
Bracket should be flush against patch fitting and tight against rear of rail.

Hold rear mounting bracket tightly against door and rear of rail. Secure with proper fasteners.

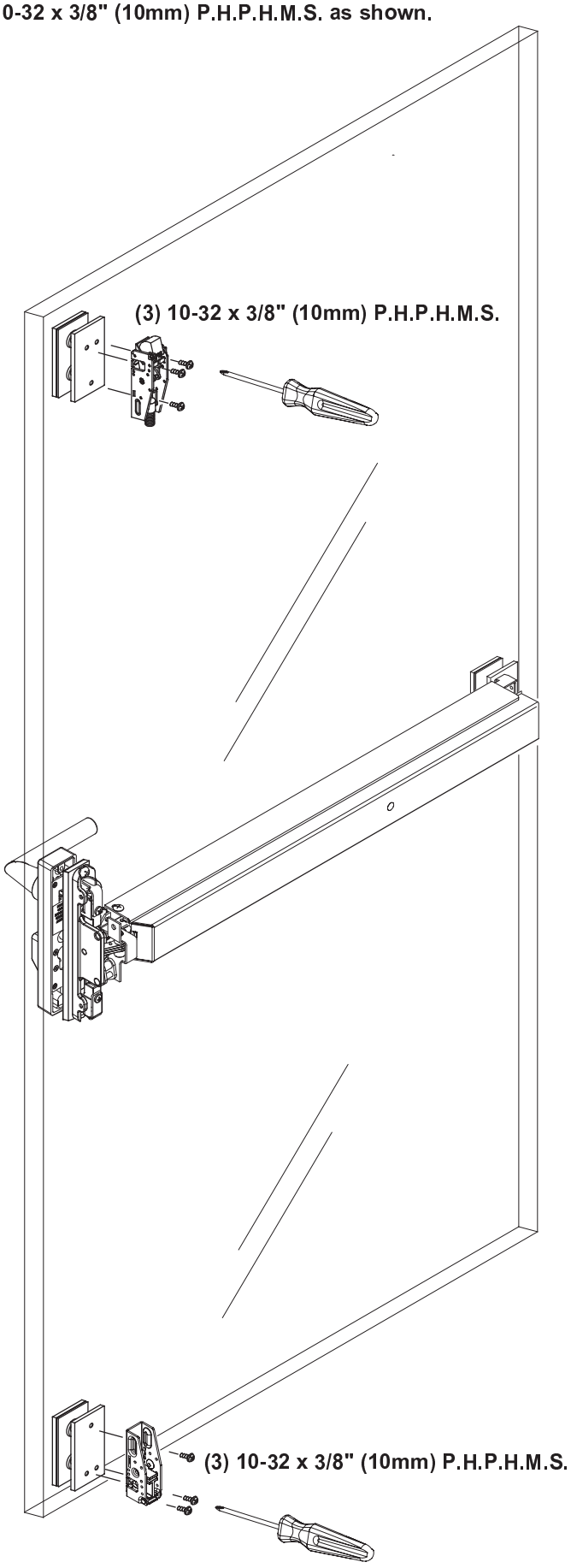
"Remove protective covering from the touchbar and rail assembly prior to installing on door."

5 **Install top and bottom patch fitting assemblies to door as shown below, secure with screws provided in assembly packs.**

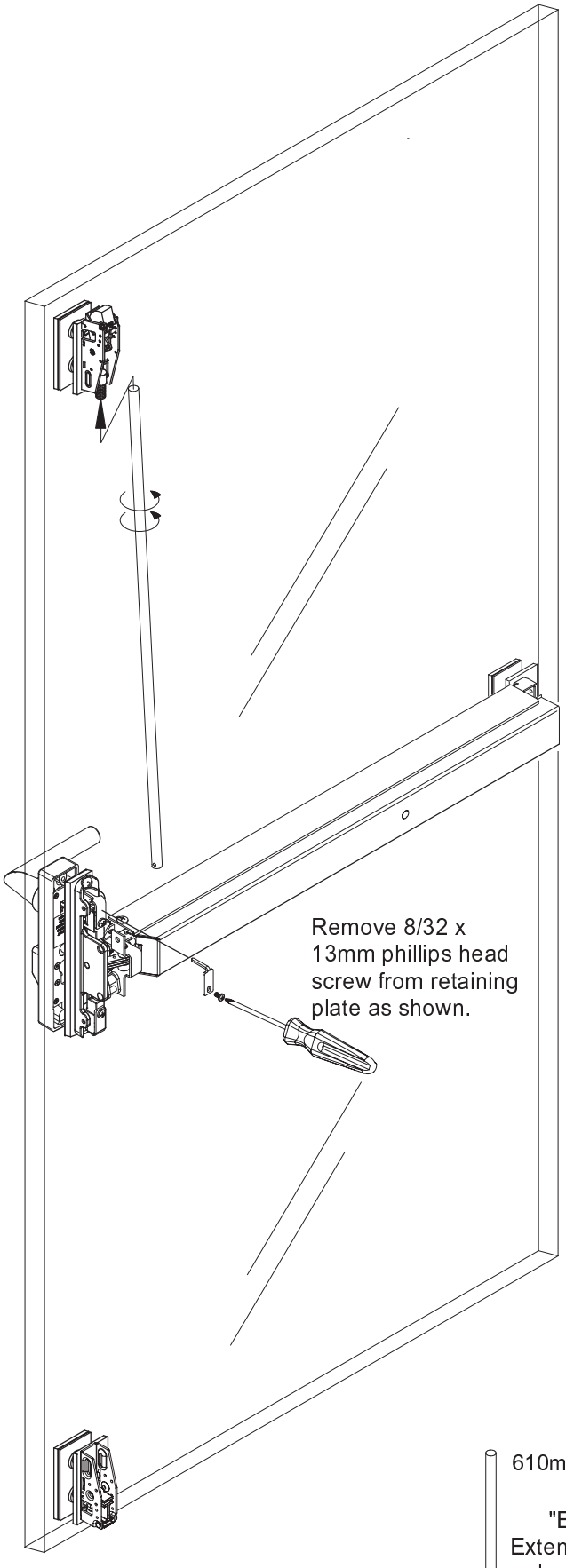
Note: Patch fitting torque of no more then 12Nm for attachment to glass door.



6 **Install top latch assembly and bottom slide bolt assembly to patch fittings on door. Secure with (3) 10-32 x 3/8" (10mm) P.H.P.H.M.S. as shown.**



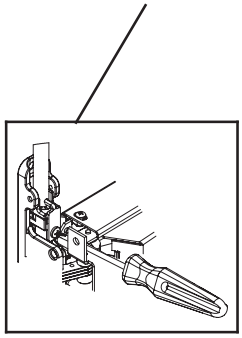
7 **Install top rod and adjust top latch assembly.**



Rods shipped cut to length for 2134mm door opening. Optional 2438mm door opening available, (must be requested at time of ordering). For doors over 2438mm and up to 3048mm request "ETR" package at time of ordering. For top rod length other than "standard" see chart below. Order 2438mm option and cut to length.

Depress tripping lever and ensure that top latch is fully extended and in dead locked position. Bolt should not be able to be depressed. Bell-crank of chassis should be completly down in home position.

Thread top rod onto adjusting bolt until hole in bottom of rod aligns with hole in rear of top portion of bellcrank, bottom of rod should sit on top of bell crank. **Insert leg of retaining plate through hole in rod and hole in bellcrank, install 8-32 x 1/2" (13mm) screw and tighten securely.**



NOTE:
If horizontal reference line is moved from the recommended mounting height, new rods may have to be ordered.

If cutting is required "Do Not Cut Threaded End". (See Chart) below, and cutting instructions on page15.

Use supplied drill jig and 4.3mm drill bit if new hole is required.

2134mm
Standard Top Rod
895mm

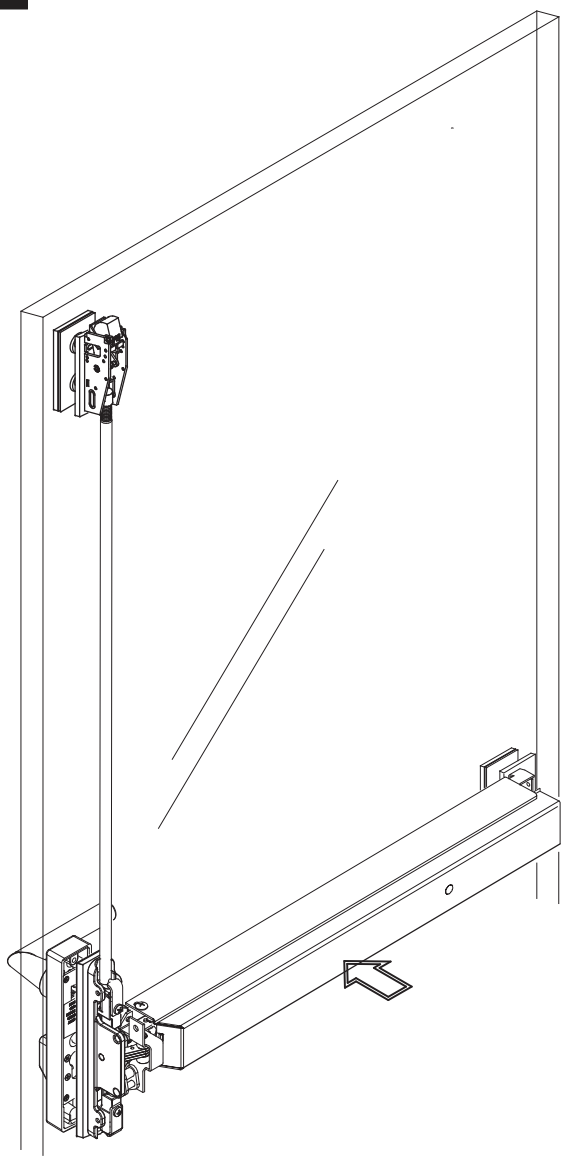
2438mm
Optional Top Rod
1200mm

610mm

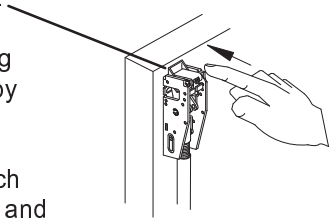
"ETR"
Extended top
rod extension.
"Do not cut."

DOOR HEIGHT	TOP ROD LENGTH
2032mm	794mm
2083mm	845mm
2134mm	895mm
2184mm	946mm
2235mm	997mm
2286mm	1048mm
2337mm	1099mm
2388mm	1149mm
2438mm	1200mm

8 Check for proper function of device and top latch assembly.

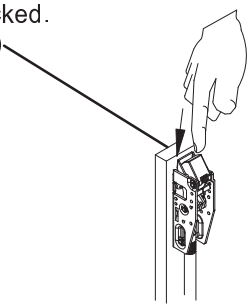


Depress touch bar slowly, top latch bolt should retract fully. Hold bar depressed, push in and hold top tripping lever. Latch bolt should be flush or slightly depress in top latch case.



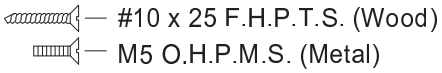
If this is found, release touch bar and tripping lever top latch bolt should remain captured by tripping lever.

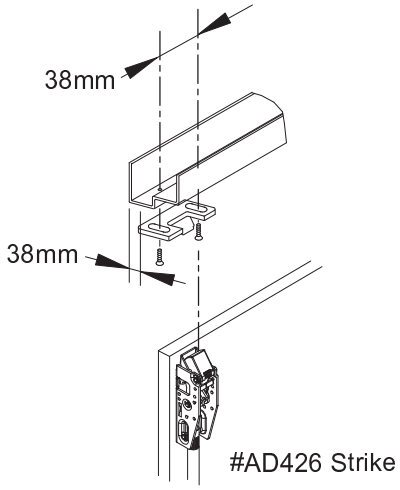
Push in on tripping lever and release top latch bolt, bellcrank should drop completely down and top latch should be fully extended and dead locked. **(You should not be able to push the bolt in.)**



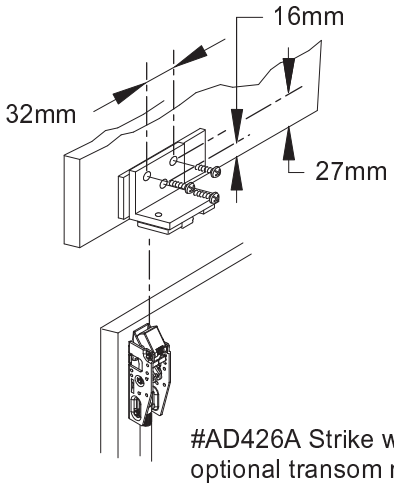
If top bolt does not retract fully or can be pushed in, adjustment of top rod is required: Remove 8-32 screw and retaining plate; rotate rod left (clock-wise) to lengthen, half turns at a time. Re-install retaining plate and screw; check for dead lock after each turn.

9 Install top keep. See spotting templates located in rear of booklet if not already done. Check for proper alignment and operation with top latch after installation.



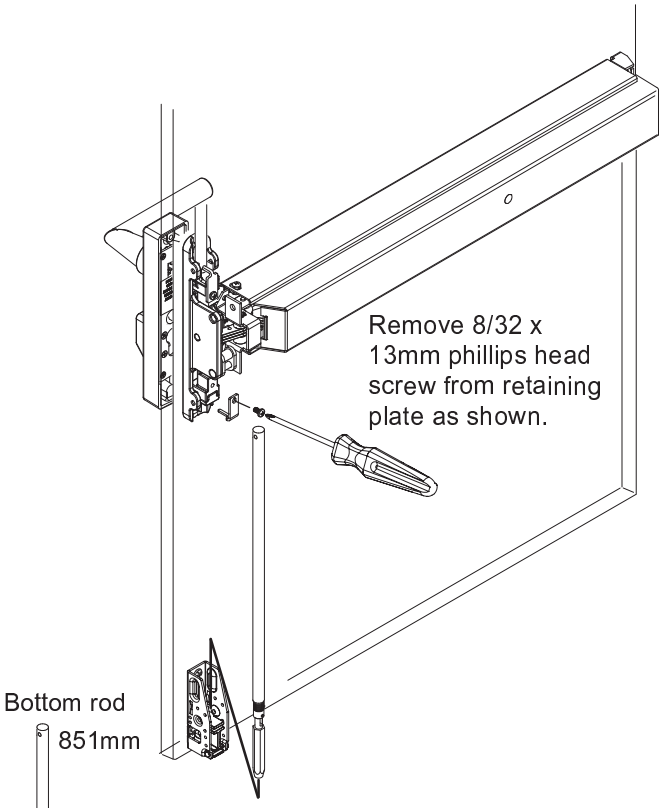


#AD426 Strike



#AD426A Strike with optional transom mount

10 Installation of bottom slide bolt or latch assembly.

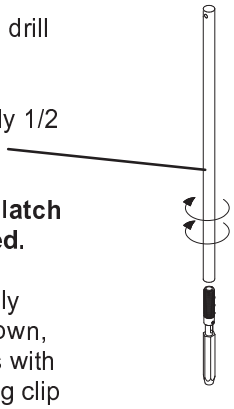


NOTE:
If horizontal reference line is moved from the recommended mounting height, new rods may have to be ordered.

If cutting is required "**Do Not Cut Threaded End**".

Use supplied drill jig and 4.3mm drill bit if new hole is required.

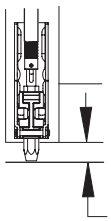
Thread bottom rod approximately 1/2 way on to slide bolt assembly.

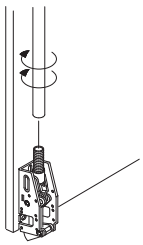


With bell crank down and top latch fully extended and dead locked.

Insert rod and slide bolt assembly in to bottom latch bracket as shown, rotate rod until hole in rod aligns with hole in bell crank. Insert retaining clip and secure with 8-32 x 13mm screw.

Check to see that there is approximately 16mm of bolt hanging down and that bolt moves up and down freely in latch case.

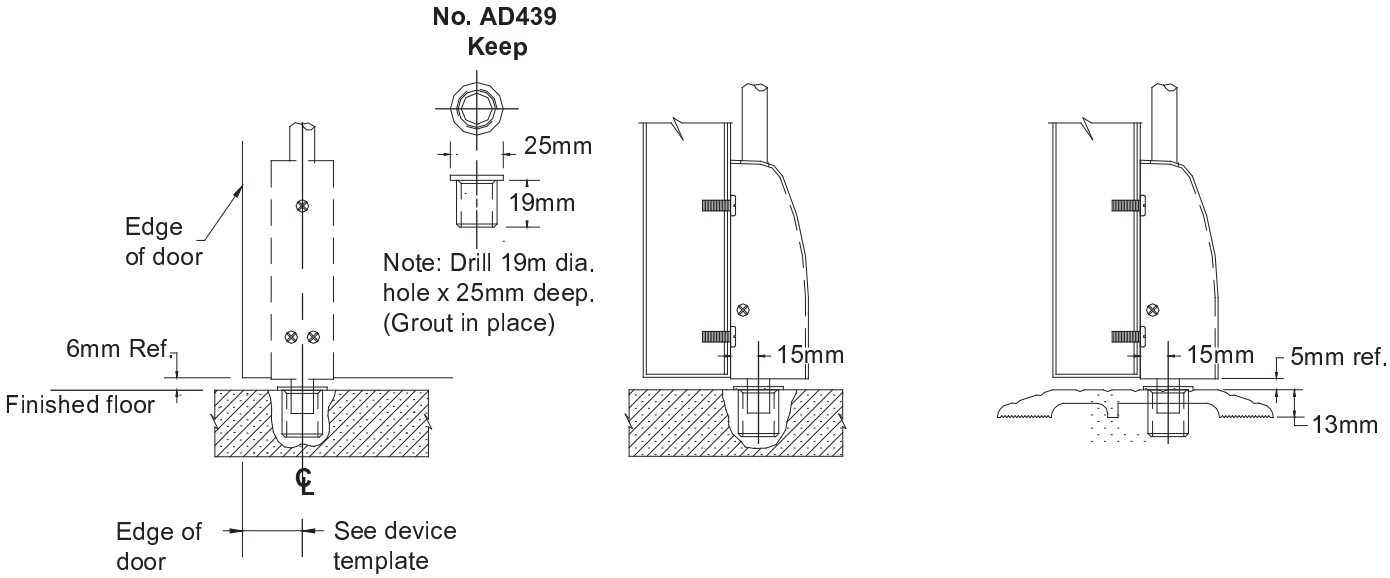




With bell crank down and top latch fully extended and dead locked.

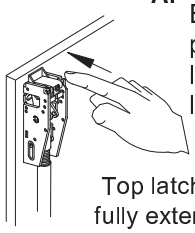
For optional pullman latch: Thread rod approximately 1/2 way on to adjusting bolt, tilt rod upward, rotate rod clock-wise to shorten, counter clock-wise lengthen until hole in rod aligns with hole in bell crank. Bolt should be dead locked when down just as top bolt. Adjust rod until dead lock is achieved.

11 Installation of standard bottom keep. For additional keep installations see page 15.

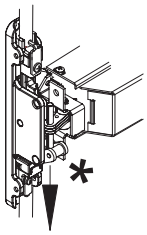


12 Verification of rod adjustments.

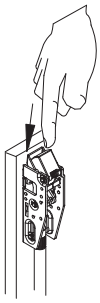
A. Block open door, push inward on tripping lever and release top latch bolt as shown.



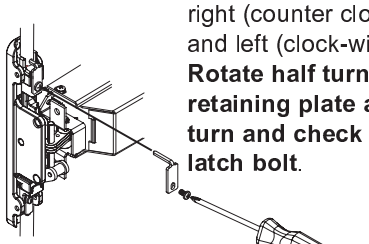
Top latch should be fully extend and dead latched as shown and bell crank should drop completely down.

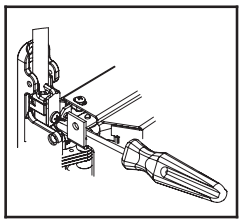


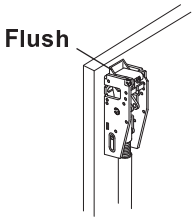
B. Check for dead lock by attempting to push downward on top latch bolt **(it should not push in). "Only"** if it can be pushed in adjust rods per step below.



C. To adjust: Remove 8-32 screw, remove retaining plate, rotate top rod right (counter clock-wise) to shorten and left (clock-wise) to lengthen. **Rotate half turns at time, re-install retaining plate and screw after each turn and check for dead lock of top latch bolt**.

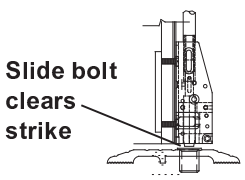






D. Depress and hold touch bar. **Push in on tripping lever and hold depressed,** check position of top latch bolt. It should be flush to slightly depressed in top latch bracket.

E. Release tripping lever and touch bar, top latch should remain in retracted position



F. With top latch held retracted by tripping lever, check bottom slide bolt to ensure it clears the strike, threshold, and floor by unblocking and swinging door. **If adjustment is required; follow same steps as in step C above for top rod until proper clearance is achieved.**

G. Close door and check that top and bottom latch bolts align and engage in top and bottom strikes.

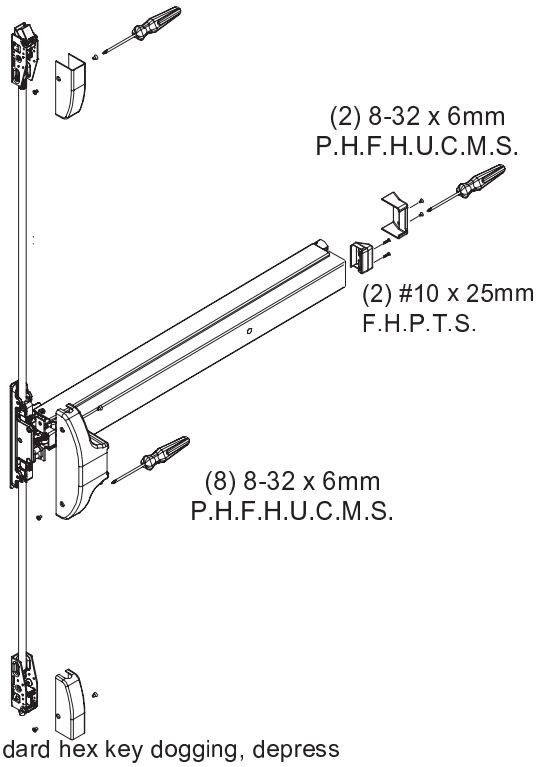
H. After rods are fully adjusted ensure that top and bottom rod retaining plate screws are tight.

I. Check device operation by opening and closing door several times from **inside**. Check and operate outside trim if installed.

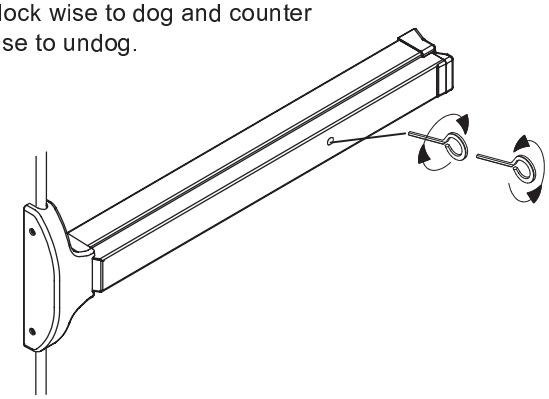
Repeat rod adjustment procedure if:

Top latch is not held retracted Bottom slide bolt does not clear strike or floor. Latches do not work properly with outside trim

J. Install end cap, center case and latch covers.

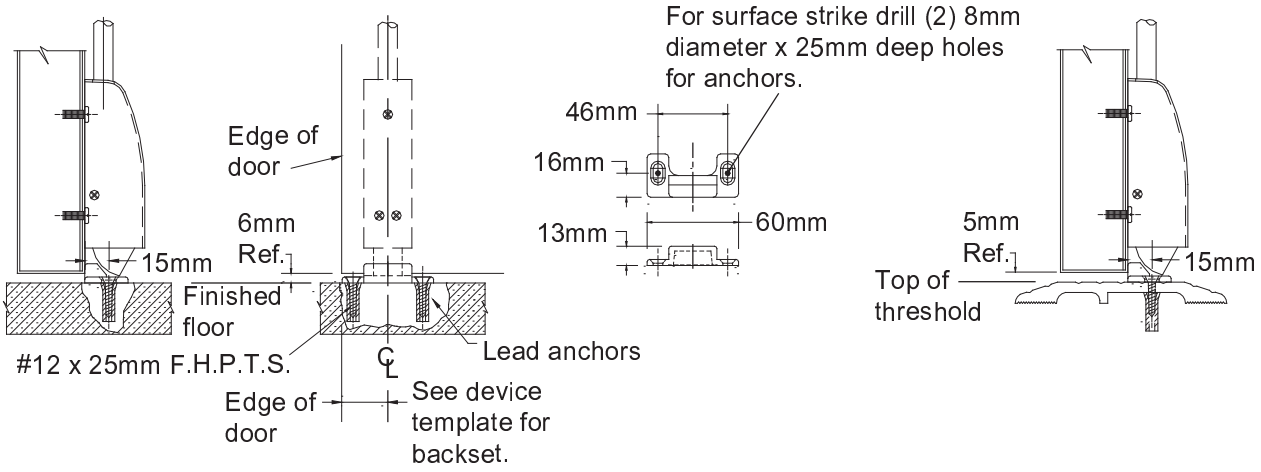


K. Standard hex key dogging, depress touch bar insert supplied hex key and rotate clock wise to dog and counter clock wise to undog.

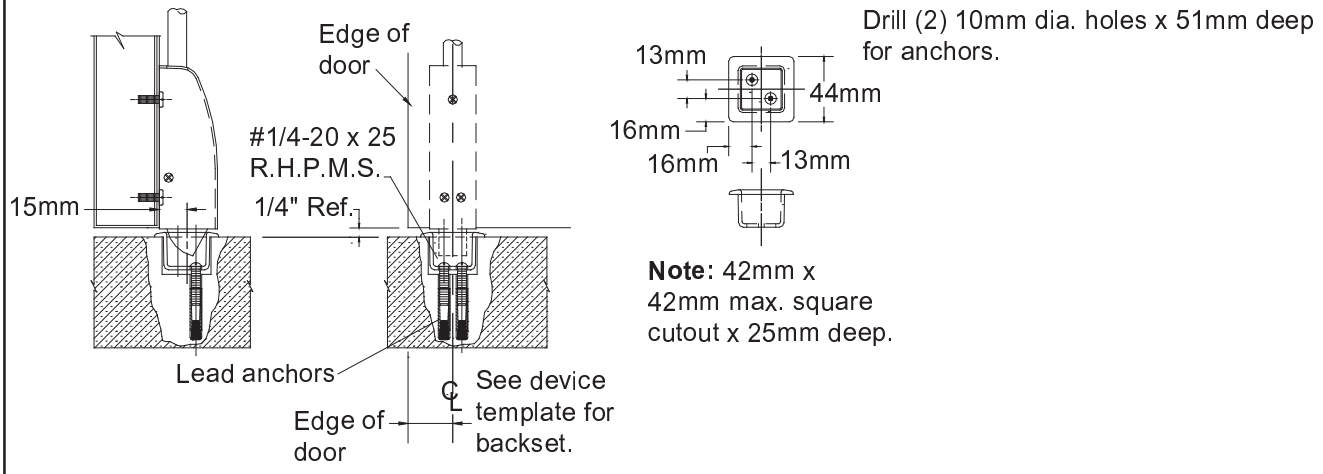


OPTIONAL: BOTTOM KEEP PREPARATION

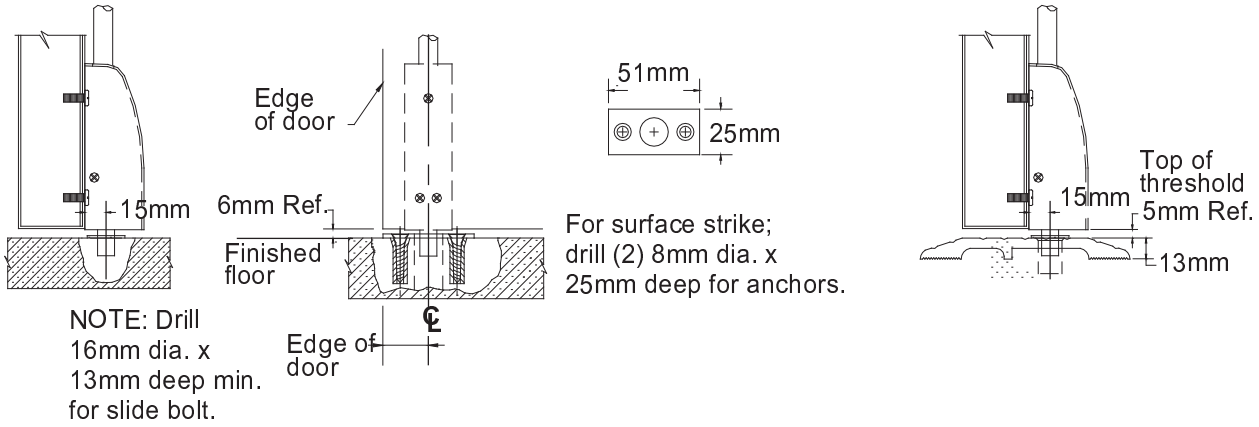
#AD416 Keep



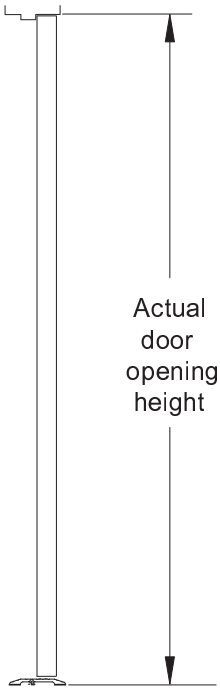
#AD431 Keep



#AD340 Strike

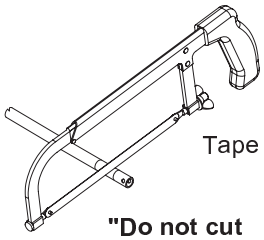


ROD CUTTING

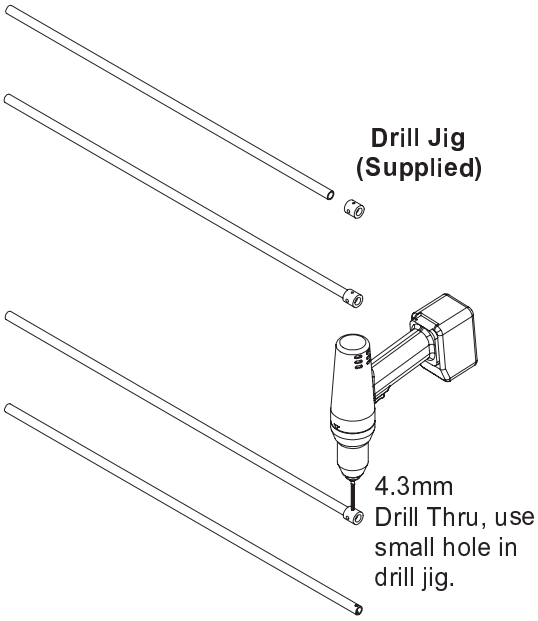


NOTE: Rods shipped standard from factory for 2134mm seven foot door opening. Optional rod pack for 2438mm eight foot openings available **"must be noted at time of order".**
For doors under 2134mm seven foot subtract difference from bottom of top rod, cut per details and redrill hole for retaining plate.
For doors over 2134mm seven foot but under 2743mm nine foot a 610mm two foot rod extension "ETR" is available. Thread top rod and rod extension together, deduct difference, cut from bottom of top rod and redrill hole for retaining plate. **"Do not cut rod extension"**.
For doors over 2438mm eight foot but under 3048mm ten foot the 610mm two foot rod extension "ETR" is added to the 2438mm eight foot rod pack. Thread top rod and rod extension together, deduct difference, cut from bottom of top rod and redrill hole for retaining plate. **"Do not cut rod extension"**.

NOTE:
If horizontal reference line is moved from the recommended 1024mm height, new rods will have to be ordered.



"Do not cut threaded end"



INSTALLING ROD EXTENSION

For "ETR" (Extended Top Rod) devices.
***Do not cut extension piece!**

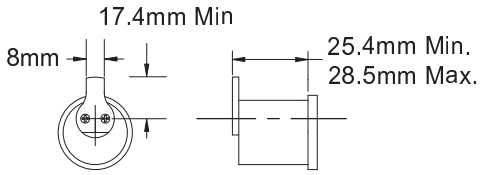
Connecting link

Thread rods together securely. "Loc-tite may be used for added security".

Standard top rod

OPTIONS: Cylinder dogging

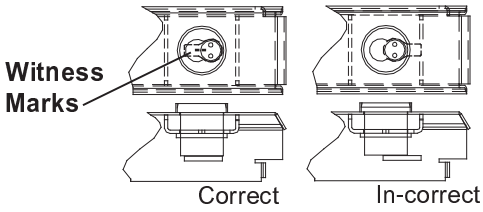
Cylinder specifications and cams;



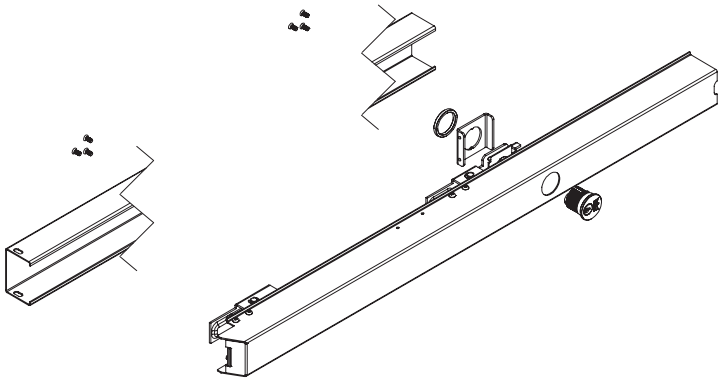
Useable Cams

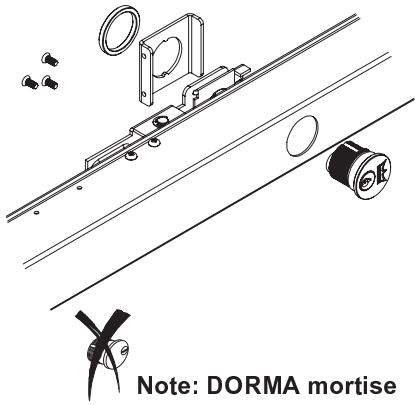
Arrow	001	Ilco/Unican	SC1
Assa	Std. (Yale)	Lori	SC1 4200-82-2002 Std.
Best	C136	Sargent	13-0664 or 13-0660
Corbin	A02	Schlage	001
Falcon	12667-3	Yale	2160

Note: When using IC core cylinders, ensure that cam is in proper position prior to installing the new core.



Cylinder dogging option on full length touch bar and rail; (See cam specifications above.)



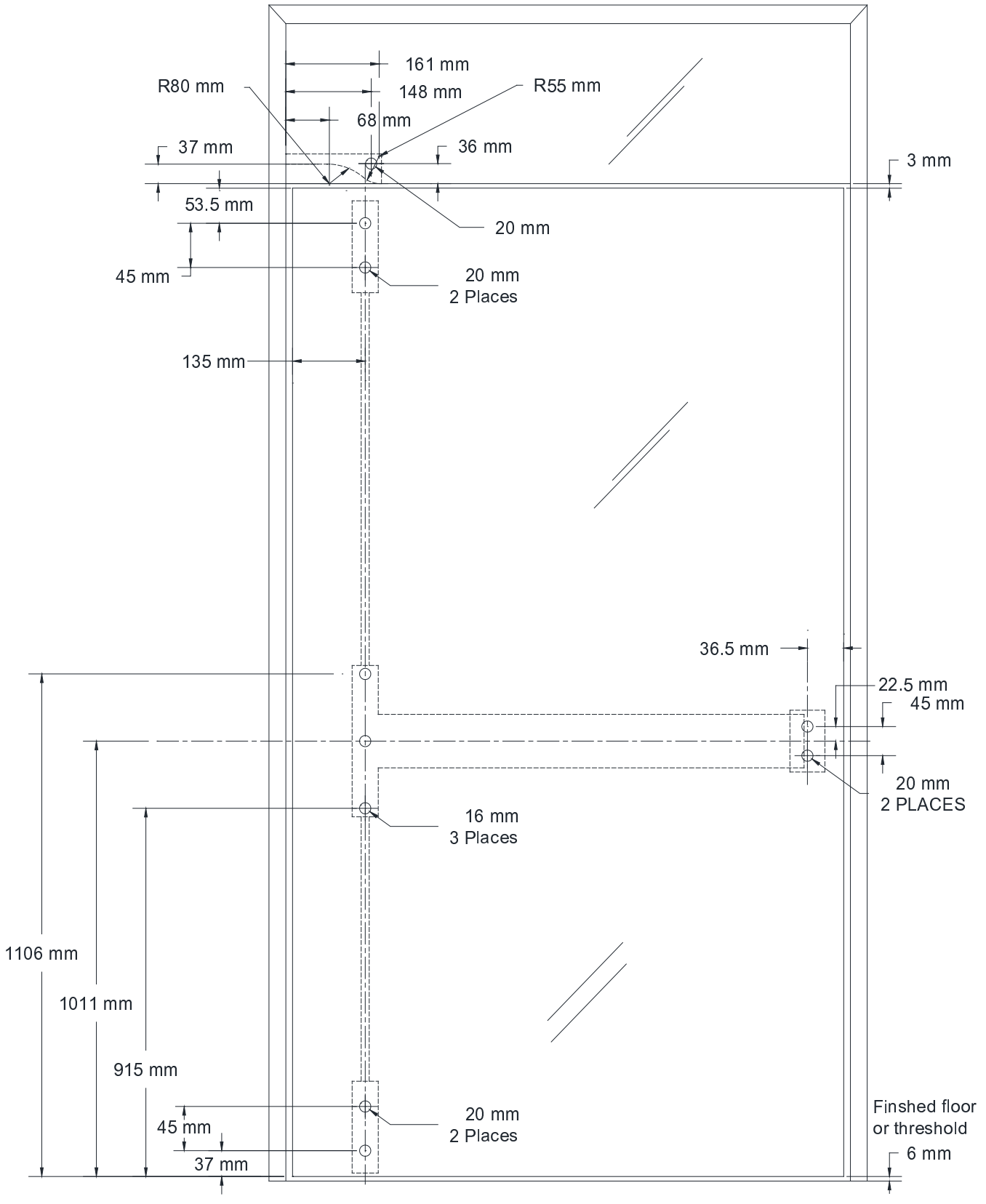


Note: DORMA mortise cylinder supplied. To use other manufacture cylinders, "L" less cylinder is available.

To change cylinder:

1. Remove end cap, end cover & end cap mounting bracket.
2. Remove cover from chassis and two chassis to touch bar mounting screws.
3. Remove (6) touch bar to rail mounting screw from underside of rail.
4. Flip rear arm assembly outward from underside of touch bar.
5. Remove cylinder nut on underside of touch bar.
6. Remove cylinder and mounting plate.
6. Insert new cylinder facing as shown in detail.
7. Install mounting bracket and cylinder nut.
8. Flip rear arm assembly back under touch bar.
9. Re-install touch bar to rail with (6) screws.
10. Install touch bar & rail back on to chassis with (2) screws.
11. Re-install end cap mounting bracket.
12. Re-install end cap, end cover & chassis cover.

GLASS PREPARATION WITH PT30SPL



DORMA 9800FLTGD SURFACE PANIC BOLT

FIXING INSTRUCTIONS

This device is intended for use on single and/ or double outward opening panic type doors.
Category of projection = Category 2
Field of door application = Category A
Maximum of 5mm door distortion allowed to ensure safe exit.
Maximum of a 1000N pulling force achieved against the fixing screws.

WARNING
The safety features of this product are essential to its compliance with EN 1125 (2008). No modification of any kind, other than those described in these instructions, is permitted.

Panic devices manufactured in accordance with EN 1125 : (2008) will provide a high degree of safety and reasonable security provided they are fitted to doors and frames of equal quality and in good condition. The doors must be correctly hung and free from binding or any distortion. This device is not recommended for wood hollow core doors.

IMPORTANT
This equipment must be installed by a competent fitter. If these fixing instructions are not followed, then no responsibility for malfunction will be accepted by the manufacturer, and warrantee claims may be considered invalid.
These fixing instructions must be passed to the user after installation has been completed.

EN 1125 CLASSIFICATION NUMBER FOR THIS PRODUCT

3	7	6	0	1	3	2	2	B	A

DOOR SIZES
This product is suitable for doors up to
Size A 838mm to 1220mm wide, 2500mm high.
Size B 686mm to 915mm wide, 2500mm high.
Size C 610mm to 915mm wide, 2500mm high.
(Doors above 2500mm fall outside the scope of EN 1125)
200Kg door mass maximum.