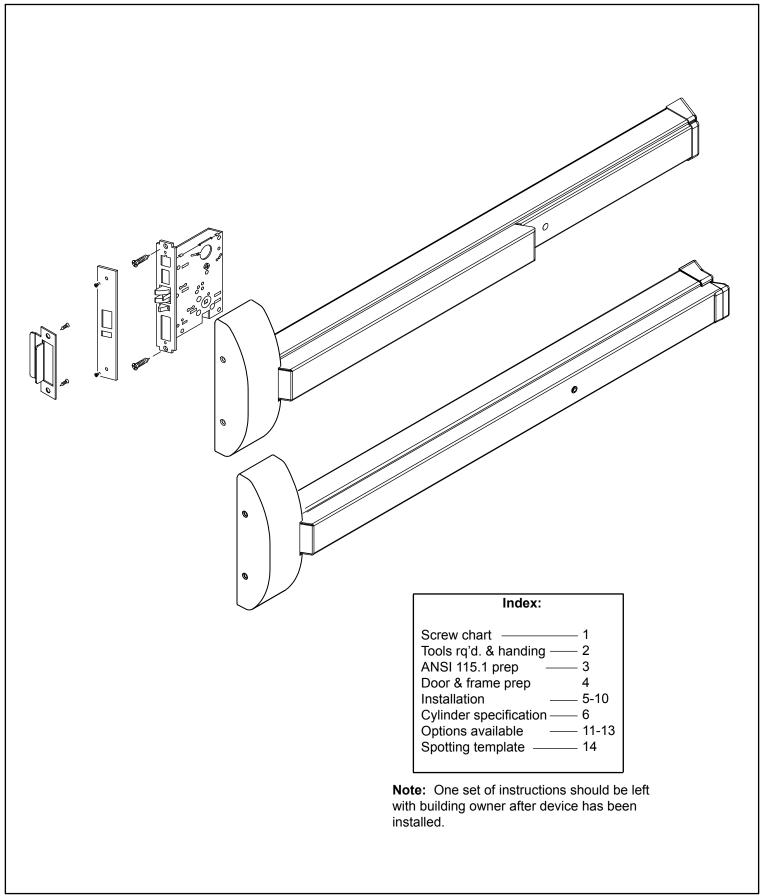
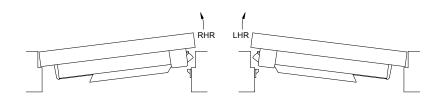
9500/F9500 & 9500FL/F9500FL SERIES MORTISE EXIT DEVICE





SCREW CHART * (4) 12-24 x 1" R.H.P.M.S. (Metal or Thru Bolts) — Chassis Mounting (4) #12 x 1 1/4" R.H.P.T.S. (Wood Door) _____ Chassis Mounting Lifter arm Mounting (1) 10-32 x 5/8" R.H.P.T.S. ____ Note: Lifter arm (Part is handed). (2) 12-24 x 1" R.H.P.M.S. (Metal or Thru Bolts) — End Cap Bracket (2) #12 x 1 1/4" R.H.P.T.S. (Wood Door) — End Cap Bracket (2) 1/4-20 x 1/2" F.H.P.M.S. Lock Body Mounting (2) #12 x 1" F.H.P.T.S. (Wood Door) Lock Body Mounting _____ Face Plate Mounting (2) 8-32 x 1/4" F.H.P.M.S. — (2) 1/4-20 x 1/2" F.H.P.M.S. Strike Mounting (2) #12 x 1" F.H.P.T.S. (Wood Door) — Strike Mounting 465 (4) 8-32 x 1/4" F.H.P.M.S. — Chassis Cover (2) 8-32 x 3/8" T.H.P.M.S. —— End Cap FL" Full length touch bar & rail series. (2) 8-32 x 1/4" F.H.P.M.S. Chassis Cover & End Cap — End Cover Mounting (2) #10 x 1" F.H.P.T.S. — **HC Strike for Hurricane rated devices only** _____ Strike Mounting (2) 1/4-20 x 1/2" F.H.P.M.S. -(2) #12 x 1" F.H.P.T.S. (Wood Door) — Strike Mounting

HANDING OF DOOR

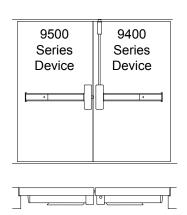


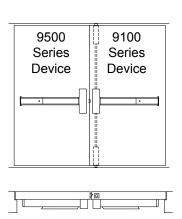




TYPICAL APPLICATIONS







SPECIAL TOOLS FOR INSTALLATION

12-24 Tap

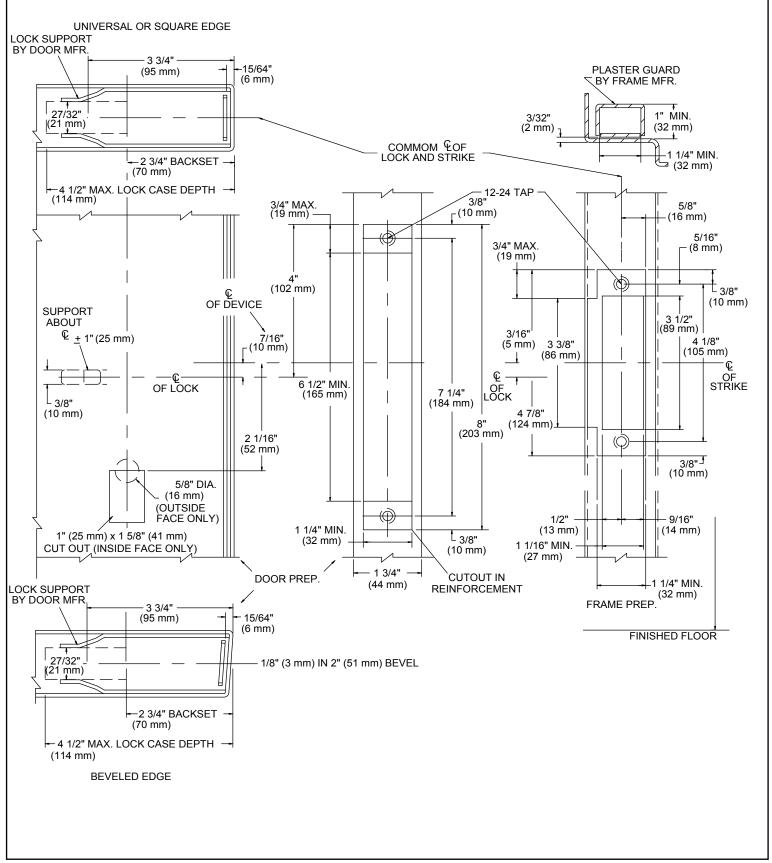
Drill bits: 1/8", #25, #16, #21 & 3/8"

Hole saws: 1", 1 1/4", & 2 1/8" diameter for trim (if required).

Jig saw or router may be required.

Standard ANSI Door & Frame Prep

ANSI 115.1 STANDARD MORTISE LOCK DOOR & FRAME PREP.



Installation

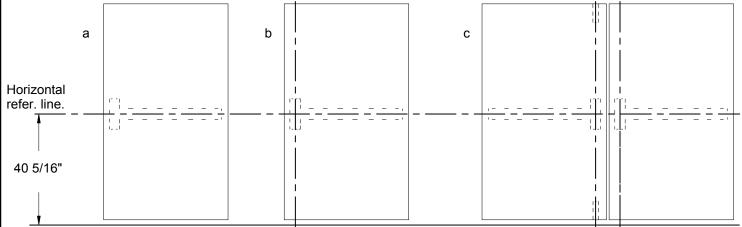
Read the entire instruction sheet prior to installation.

Before Installing Hardware:

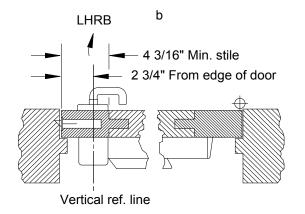
- 1. Door should be fitted and hung.
- 2. Verify door width, with carton label for correct exit device length. (See Step 9)
- 3. For hand reversal of chassis assembly see Step 3.
- 4. For hand reversal of mortise lock body see Step 4.

Note: If device is being installed over glass lite panels, shim kit may be required. Order GK9000.

2 Door preperation



Finished floor or threshold.

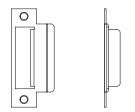


4 3/16" Min. stile
2 3/4" From edge of door

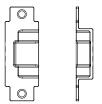
Vertical ref. line

С

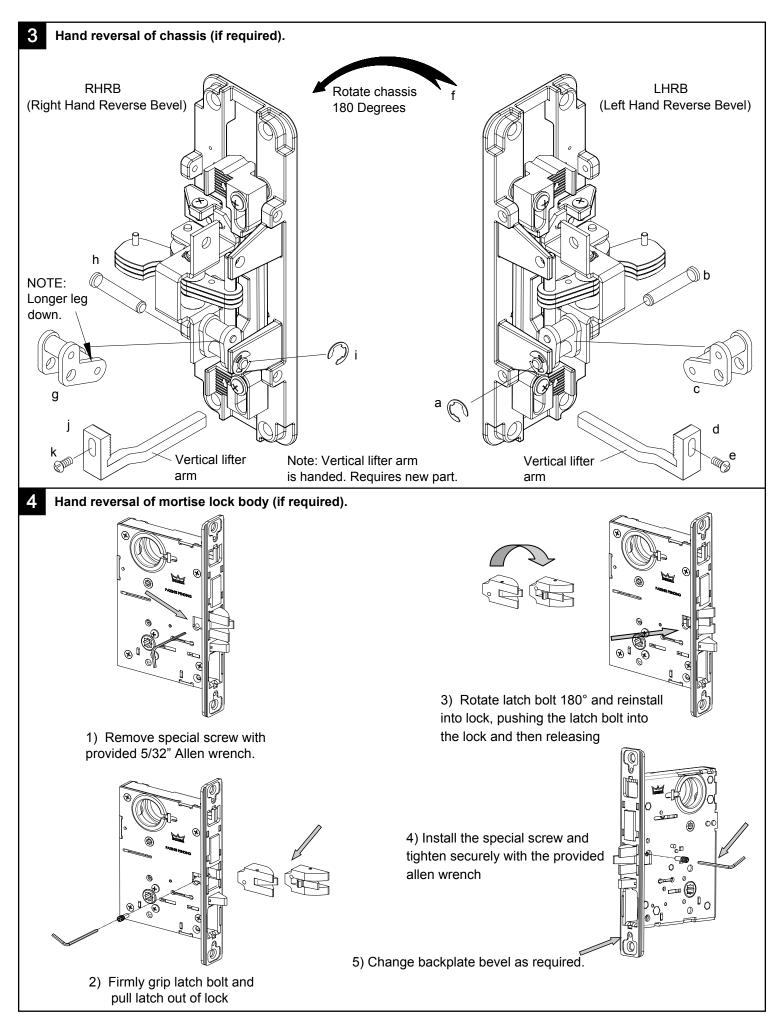
No. 465 Strike standard

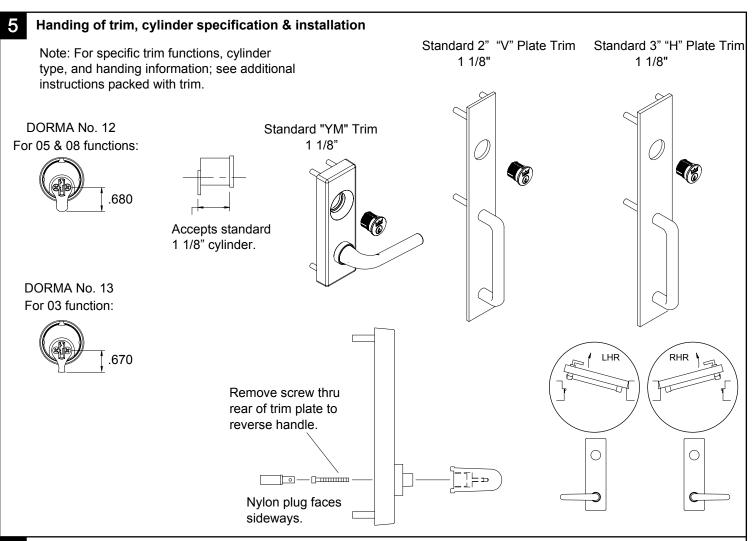


No. 565M Open Back Strike (Non handed)



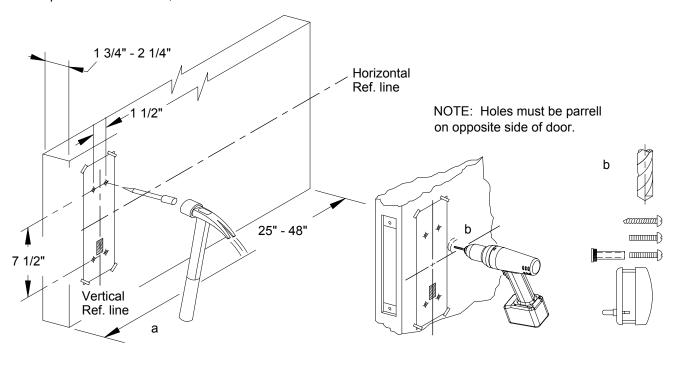
See website or contact DORMA techinical department for correct door prep template.

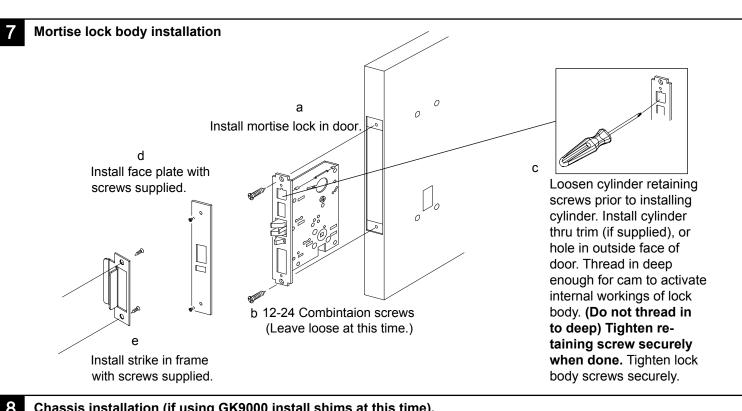


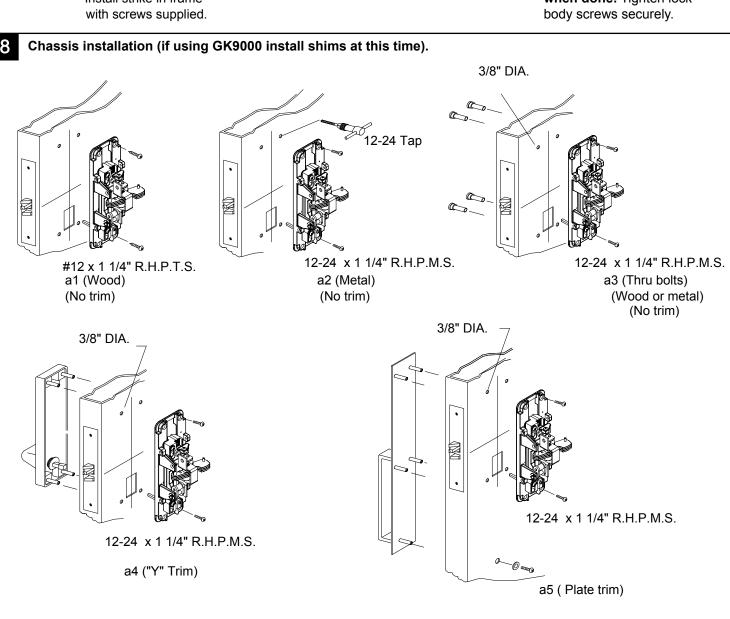


6 Refer to carton label for model and trim description prior to drilling.

Refer to Template T9500, located at rear of instruction booklet for specific hole locations, drill size and screw sizes.







Prepare to install touch and rail on door.

NOTE: All dimensions are based on 5/8" stop height; Verify strikes, stile width, any trim and stop height prior to making any cuts. If cutting is required follow instructions below.

Size A:

Fits 48" door opening without cutting.

Can be cut to fit a 34" minimum door opening.

Size B:

Fits 36" door opening without cutting.

Can be cut to fit a 28" minimum door opening.

Size C:

Fits 36" door opening with out cutting. Using a shorter touch pad then the standard "B" size allows it to be cut to 25" door opening. **Note:** Models with prefix options such as "ES", "DE" etc. may not be cut down to minimums shown to left. Consult factory or catalog for details.

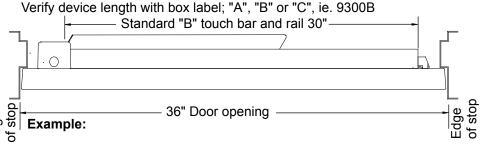
NOTE: If carton label list prefix; "ES", "MS", "LM", "BPA", "BPAR", "DWA", "LM/MS/BP" or "CD" prefix see Options pages at rear.

IMPORTANT

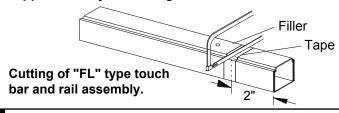
Use caution when cutting touchbar and rail to size on models with "ES", "MS", "LM" or "DWA" prefix options.

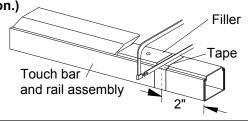
These units contain internal wiring.

For models with prefix options "BPA", BPAR" or "DE" remove filler containing electronics before cutting.



Note: If door opening width is less then standard touch bar will have to be cut down. ie: door opening width 34" subtract 2" from rear of touch bar and rail, tape and cut to length as shown. (Note: On "FL" series depress touch bar as shown, tape and cut to length. Touch bar should be approximately 3/16" longer than rail when released to upward position.)





10 Install touch bar and rail assembly and end cap bracket to door.

Remove two 8-32 screws from chassis, slide touch bar and rail assembly under rear of chassis. Note: If device has prefix "ES" ensure that pins in lever bolt align with slots in actuator located inside nose of touch bar. See instruction sheet IES-7 packed with device. Install (2) two 8-32 x 3/8" P.H.P.M.S. to secure touchbar to chassis.

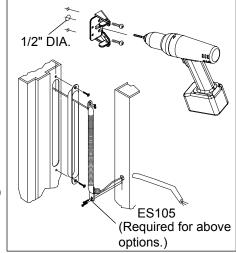
(2) 8-32 x 3/8"

P.H.P.M.S.



Hold rear mounting bracket tightly against door and rear of rail. Mark (2) two holes and drill per chart. Secure with proper fasteners.

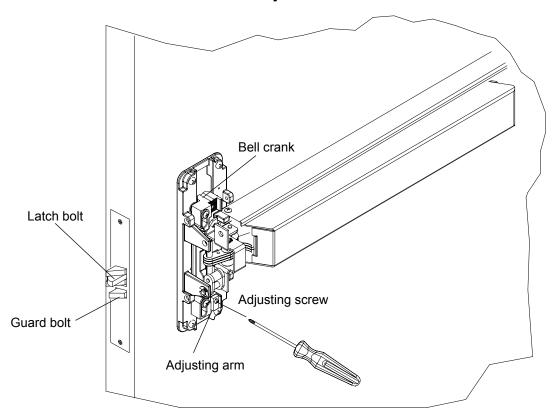
For the following models prefixes: "ES", "MS", "LM" or "DWA" drill an additional 1/2" diameter hole as shown. See options pages at rear for additional information.



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

■■■ — No. 16 Drill - 12-24 Tap (Metal)
■ ■■■ — 3/8" Dia. (Thru bolts)

Metal/thru-bolts - (2) 12-24 x 1" F.H.P.M.S. Wood - (2) #12 x 1 1/4" F.H.P.T.S.



To adjust lock body and chassis for proper function follow steps below: (Door open and blocked) Loosen adjusting screw in adjusting arm, do not remove. Ensure bellcrank is fully down, push up on adjusting arm until it just touches the actuator arm in the lock body, then secure adjusting screw. Depress touch bar slowly while watching latch bolt, with touch bar fully depressed, bellcrank upward, the latch bolt should be fully recessed in edge of door. If not, adjust adjusting arm upward a little more, "arm should not be prematurely retracting the latch."

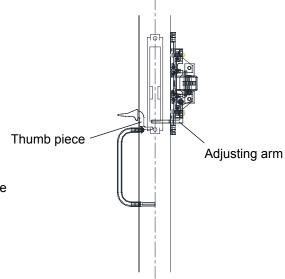
Release touch bar, latch bolt should extend fully. Push inward on guard bolt, then attempt to push inward on latch bolt. Latch bolt should be dead latched and not retract. If latch bolt is not dead latched readjust adjusting arm slightly down ward. Recheck operation above. Check all outside trim functions at this time if installed. Once all of the above functions have been checked and rechecked you may allow door to close.

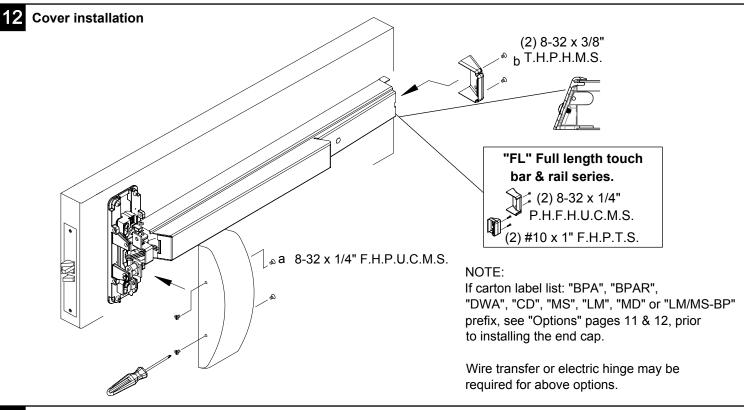
Allow door to close and check for proper strike alignment and engagement of latch bolt.

Note:

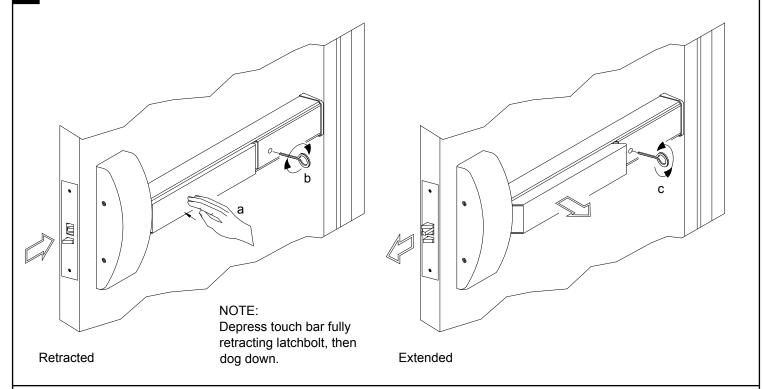
If door is under standard 1 3/4" adjusting arm may require to be cut down to ensure it does not rub on interior face of opposite side of door. For doors over 2 1/4" a special length adjusting arm can be ordered "special" from the factory.

On installations with thumb piece trim ensure that the adjusting arm does not interfere with the thumb piece during normal operation.





13 Standard hex key dogging

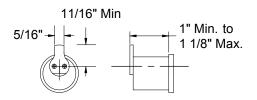


General Maintenance Notes:

The DORMA 9000 Series Exit Devices are designed to give years of trouble free service, however depending on installation, location, climate conditions etc. routine maintenance is recommended in all latch bolt locations. The device should be periodically cleaned and re-lubricated to ensure proper function and operation of all moving parts.

OPTIONS:

"CD" (Cylinder Dogging) Option: Cylinder specifications and cams;



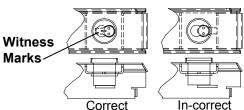
Note: When using IC core cylinders, ensure that cam is in proper position prior to installing the new core.

Useable Cams

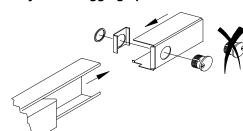
Arrow 001 Ilco/Unican SC1

Std. (Yale) SC1 4200-82-2002 Std. Assa Lori Best C136 Sargent 13-0664 or 13-0660

Corbin Schlage A02 001 Falcon 12667-3 Yale 2160



Cylinder dogging option on standard touch bar and rail;



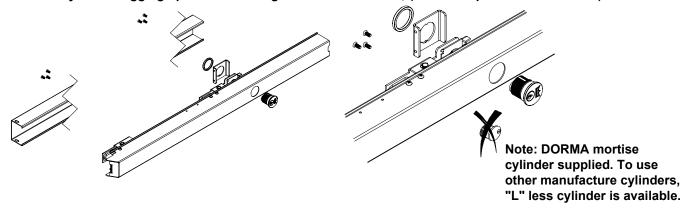
Note: DORMA mortise cylinder supplied. To use other manufacture cylinders, "L" less cylinder is available.

To change cylinder:

- 1. Dog down touch bar.
- 2. Remove end cap and end cap mounting bracket.
- 3. Slide out filler from rear of rail.
- 4. Remove cylinder nut on underside of filler.
- 5. Remove cylinder and mounting plate.

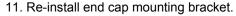
- 6. Insert new cylinder facing as shown in detail.
- 7. Install mounting bracket and cylinder nut.
- 8. Slide filler back into rear of rail.
- 9. Install end cap mounting bracket and end cap.
- 10. Undog touch bar.

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



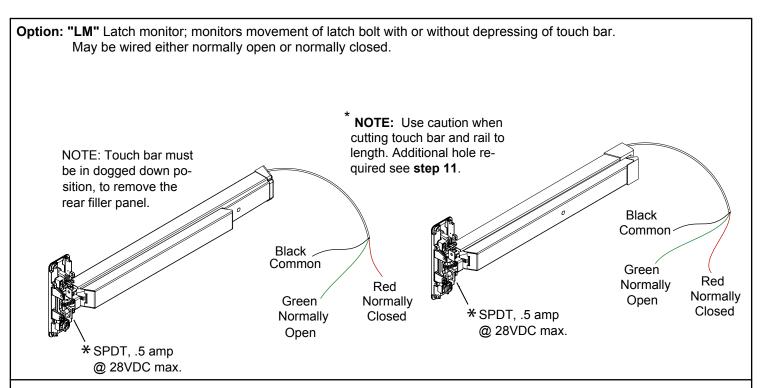
To change cylinder:

- 1. Remove end cap, end cover & end cap mounting bracket.
- 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.



2. Remove cover from chassis and two chassis to touch bar mounting screws. 12. Re-install end cap, end cover & chassis cover.

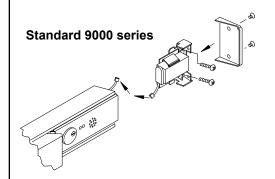




"BPA", "BPAR" & DWA (ALARM) Options; "BPA" Battery powered alarm, sounds continuous until reset. "BPAR" alarm sounds for 4 minutes then will automatically reset. Alarm mode set at factory.

Note: On either the standard 9000 alarm or the 9000"FL" versions caution must be used when cutting touch bar and rail to length due to the wires running inside of the assembly. A standard DORMA cylinder is supplied on both units, to change to a customer supplied cylinder follow steps under "cylinder dogging". Refer to additional instruction sheet packed with device for operational instructions etc.

"DWA" OPTION:



Battery Eliminator White Green (Non-polarized) Connected to outside power source; 12-24V AC/DC supply. ie: Dorma ES-100 etc. Contact Dorma 1-800-523-8483 for other supplies available.

To change battery:

- 1. Prop open door.
- 2. Remove (2) end cap mounting screws.
- 3. Remove (2) end cap mounting bracket screws.
- 4. Remove mounting bracket & replace battery.
- 5. Re-install in reverse order.

Size A:

Fits 48" door opening without cutting.

Can be cut to fit a 37 1/2" minimum door opening.

Size B:

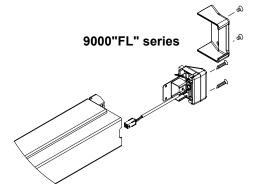
Fits 36" door opening without cutting.

Can be cut to fit a 31 1/2" minimum door opening.

Size C:

Fits 36" door opening with out cutting.

Using a shorter touch pad then the standard "B" size allows it to be cut to 28 1/2" door opening.



To change battery:

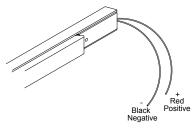
- 1. Prop open door.
- 2. Remove (2) end cover mounting screws.
- 3. Remove (2) end cap screws.
- 4. Remove end cap & replace battery.
- 5. Re-install in reverse order.

Note: Cylilnders are installed at factory, should cylinder be changed, note postion of keyway prior to removal. Cylinder must be installed in same direction for proper operation. Cam of cylinder must break internal photo cell to function. Proper cam also required.

"MD" (MAGNETIC DOGGING) OPTION:

Electrically dogs touch bar when energized by power supply, then depressed. Releases upon interuption of power.

*NOTE: Use caution when cutting touch bar and rail to length.



Requires DORMA PS-610RF power supply, set on 12VDC. Fits standard length touch bar and rail on all 9000 series exit devices. Not available with other options. Maximum holding force of 40-60#. Immediate release upon loss of power.

"DE" (DELAYED EGRESS) OPTION:

Note: Refer to 9000 series installation instructions for templating and installation of device, addtional "Delayed Egress" instructions are shipped in the box. for operation and function of the unit.



85 Decibel Alarm - Standard LED Status Indicator - Standard

Nuisance Alarm - Standard, DIP Switch Settable

Key Switch Control - Standard

Remote Authorized Egress - Standard, DIP Switch Settable

Remote Re-Arm - Standard

Remote Bypass - Standard

Door Position Input - Standard, DIP Switch Settable

Auto Reset or Manual Reset, DIP Switch Settable

Auto - Stanadard (Manual - in CA)

Additional Form "C" Relays For Optional Horn etc.

(Rated 1 amp @ 30 vdc)

Fire Alarm Connection

Paired Doors Connection

"MLR" MOTORIZED LATCH RETRACTION OPTION:

Specifications:

Electrical input requirements:

24Vdc +10% Filtered and regulated power supply;

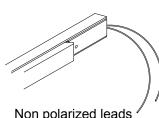
ie: DORMA PS610RF or PS532RF.

The unit may also be powered by the DORMA ED900

operator.

Current: .888A max. inrush, 400mA max. hold

Provides simultaneous electric latch retraction and dogging (depressed touch bar).





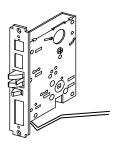
Non polarized leads

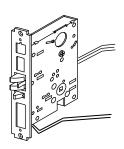
*NOTE: Use caution when cutting touch bar and rail to length.

ELECTRIFIED LOCK BODY OPTIONS:

Fail Safe - LFSF Fail Secure - LFSC

Fail Safe - LFSF (LM) w/ latch monitor Fail Secure - LFSC (LM) w/ lacth monitor





An internally mounted solenoid locks or unlocks the outside trim hub.

Solenoid rating: 24VDC @ .21 amps

LM switch rating: 125VAC 3A or 30VDC 0.5A

Red - N.C.

Black - Common

White - N.O.

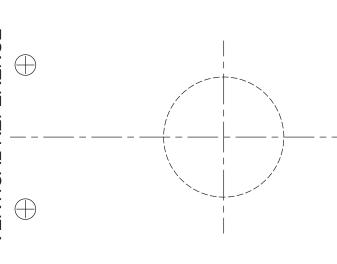
REQUIRES DORMA ES-100 or AD100 POWER SUPPLY.

OPTIONS Option: "MS" Monitor Switch: Monitors movement of touch bar, or can be used to signal an external light, horn etc. Located on the rear arm assembly as shown; Comes standard with (2) two micro switches. Both can be wired normally open or normally closed. On the standard 9000 series it can be added in the field by removing rear filler. On the "FL" series it can be added, however the touch bar must be removed completely from the rail to install switch assembly. Black - Common Green - Normally Open Red - Normally Closed Note: Normal switch position shown, once installed normally SPDT, .5 amp @ 28VDC max. open and closed positions are reversed. *NOTE: Use caution when cutting touch bar and rail to length. Requries additional hole see step 11.

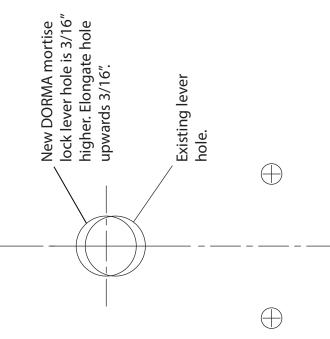
9500 Exit Mortise Retro-fit Instructions



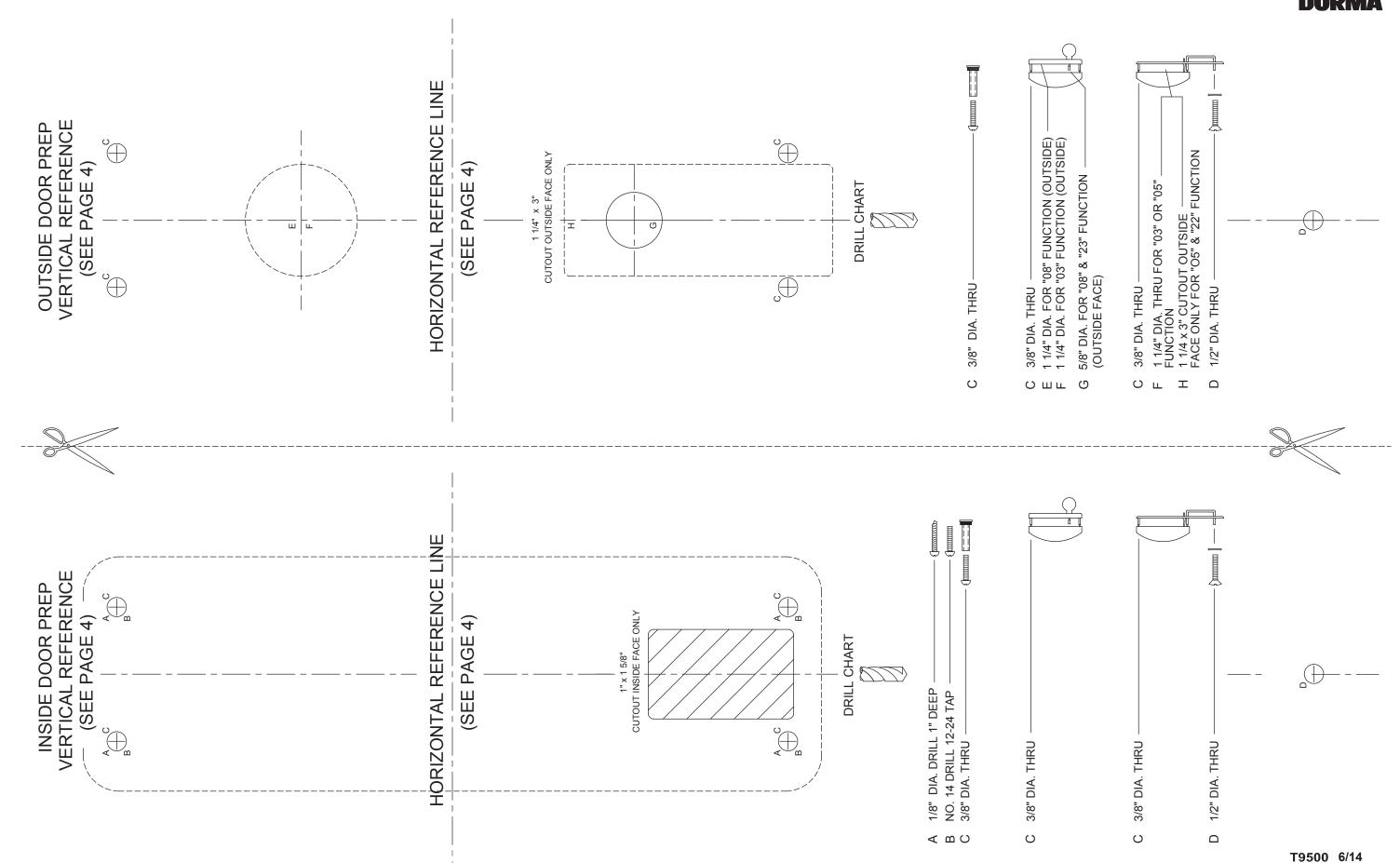
OUTSIDE DOOR PREP VERTICAL REFERENCE



HORIZONTAL REFERENCE LINE



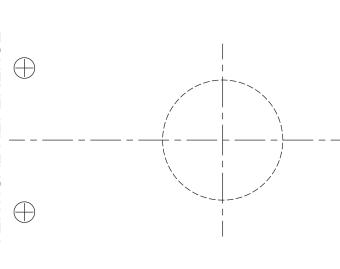




9500 Exit Mortise Retro-fit Instructions



OUTSIDE DOOR PREP VERTICAL REFERENCE



HORIZONTAL REFERENCE LINE

