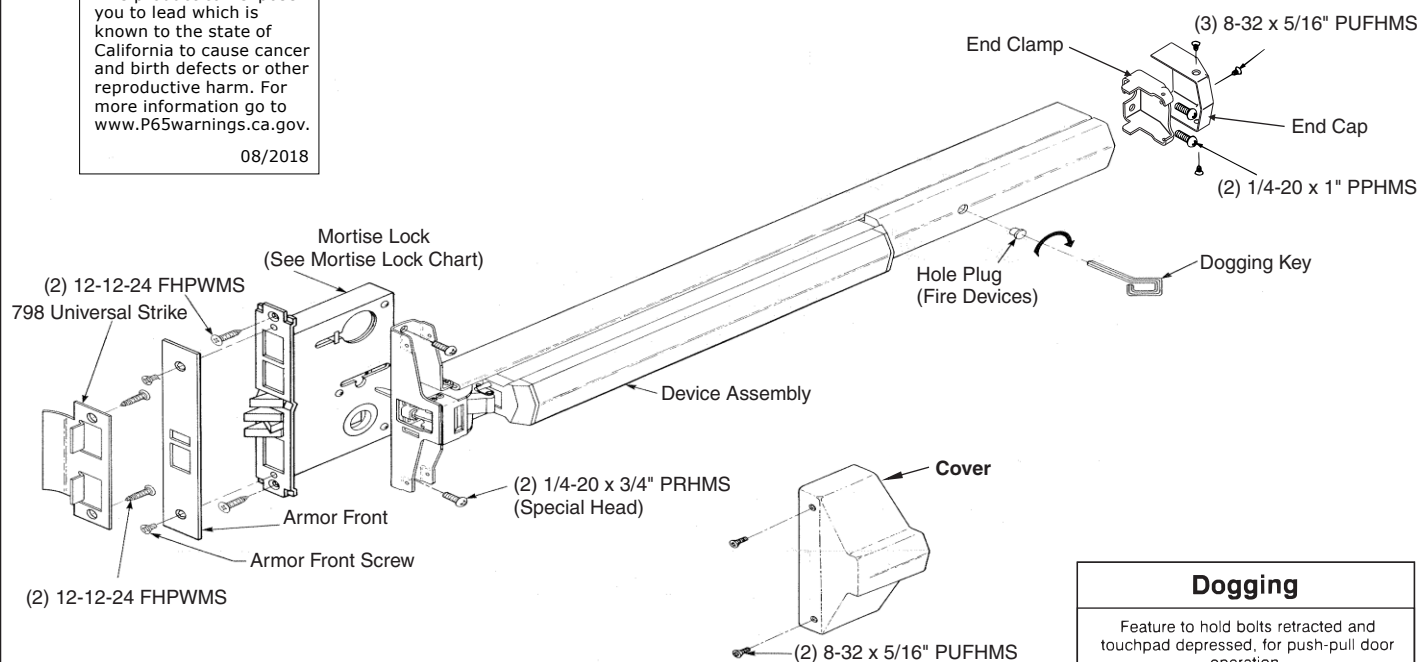**Yale**®

Outside Trim

Device is packed ready for any Yale 650F or 660F Series Trim.

⚠ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

08/2018

(3) 8-32 x 5/16" PUFHMS

End Clamp

End Cap

(2) 1/4-20 x 1" PPHMS

Dogging Key

Hole Plug (Fire Devices)

Device Assembly

Mortise Lock (See Mortise Lock Chart)

(2) 12-12-24 FHPWMS

798 Universal Strike

(2) 1/4-20 x 3/4" PRHMS (Special Head)

Cover

Armor Front

Armor Front Screw

(2) 12-12-24 FHPWMS

(2) 8-32 x 5/16" PUFHMS

Dogging

Feature to hold bolts retracted and touchpad depressed, for push-pull door operation.

To Dog Device

1. Insert dogging key.
2. Hold touchbar depressed.
3. Turn key 1/4 turn clockwise.

Not a feature of fire labeled devices.)

ABBREVIATION	FASTENER DESCRIPTION
PPHMS	PHILLIPS PAN HEAD MACHINE SCREW
PRHMS	PHILLIPS ROUND HEAD MACHINE SCREW
FHPWMS	FLAT HEAD PHILLIPS WOOD/MACHINE SCREW
PUFHMS	PHILLIPS UNDER CUT FLAT HEAD MACHINE SCREW

Mortise Lock Chart

Function	Lock Number	
	Panic Label	Fire Label
Exit Only F02 F03 (Knob)	35K	35KF
F03 (Lever)	35L	35LF
F05	38T	38TF
F06 (Knob)	38K	38KF
F08 (Lever)	38L	38LF

Attention Installer

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Yale Locks & Hardware makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.
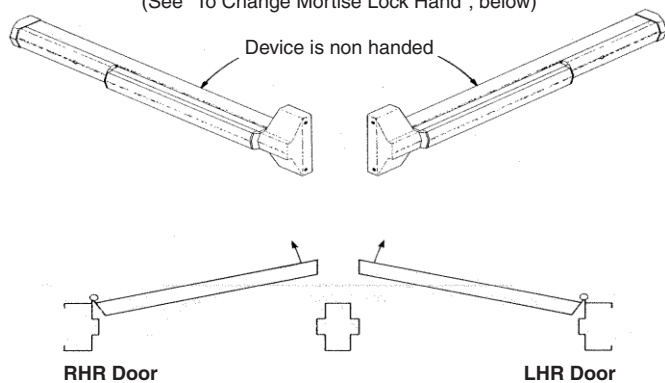
All dimensions are in inches (mm) unless otherwise noted.

# To Change Hand	# Maintenance

For Metal, Composite and Wood Doors Handed Mortise Lock

(See "To Change Mortise Lock Hand", below)

Device is non handed

RHR Door   **LHR Door**

1. Periodically remove covers and coat mechanisms with a silicone base lubricant. This is particularly required in corrosive environments for proper product function.

2. Check mounting fasteners periodically. Retighten if found loose. Apply screw locking compound (available at automotive part stores) or change part fasteners if screws continue to back up.

1/4-20 Sex Nut Option

Recommended for unreinforced doors.

Specify Finish

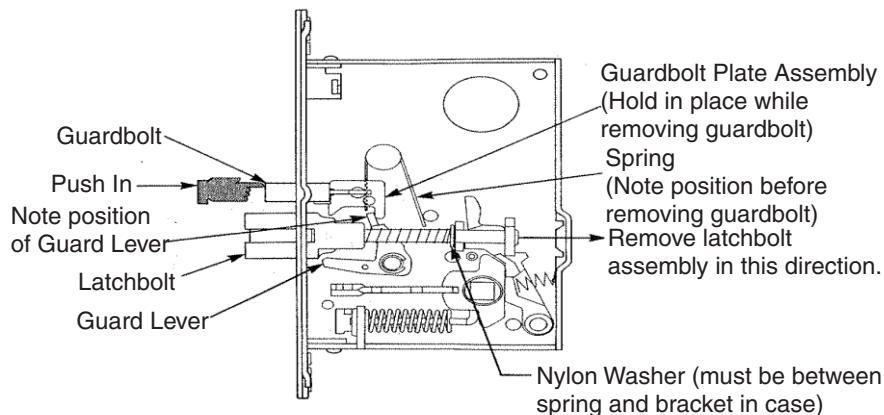| Device	Quantity	Size	Part Number
All (No Trim)	4	1/4-20	66-0001-1745
All (With Trim)	2		

Shim Kit Option

List Number: 723W Black Finish

Kit consists of Latch Head Shim (Device Cover seats on shim) and End Clamp Shim (End Cap seats on shim).

Each shim is 1/8 (3.2) thick. More than two Shim Kits require longer device mounting screws (not included).

To Change Mortise Lock Hand

Typical Lock Body with Cover removed and showing only components relevant to lock handing. Other components vary according to function.

Guardbolt

Push In

Note position of Guard Lever

Latchbolt

Guard Lever

Guardbolt Plate Assembly (Hold in place while removing guardbolt)

Spring (Note position before removing guardbolt)

Remove latchbolt assembly in this direction.

Nylon Washer (must be between spring and bracket in case)

To change lock hand remove, flip latchbolt and guardbolt and reinstall.
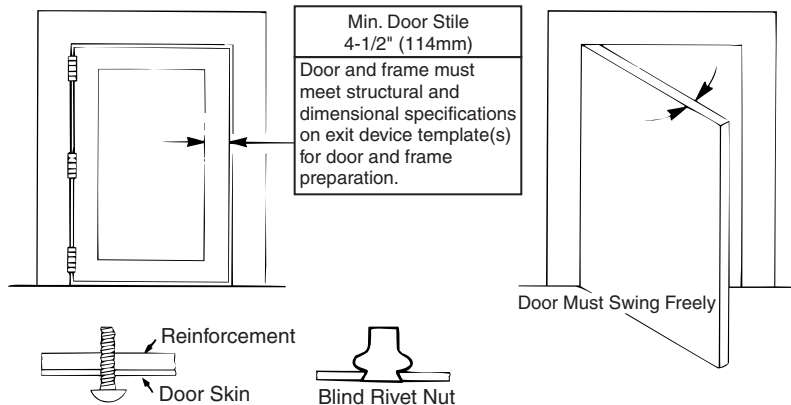
Check Before Starting

Unreinforced Doors or Frames

Doors and Frames with walls having a structural thickness (metal skin plus reinforcement or solid hardwood) to engage less than (3) full screw threads are considered unreinforced.

Unreinforced Doors: Use SNB (sex nuts and bolts).

Unreinforced Frames: Use Blind Rivet Nuts.

Recommended fasteners for unreinforced openings are not necessarily supplied by Yale Security, Inc.
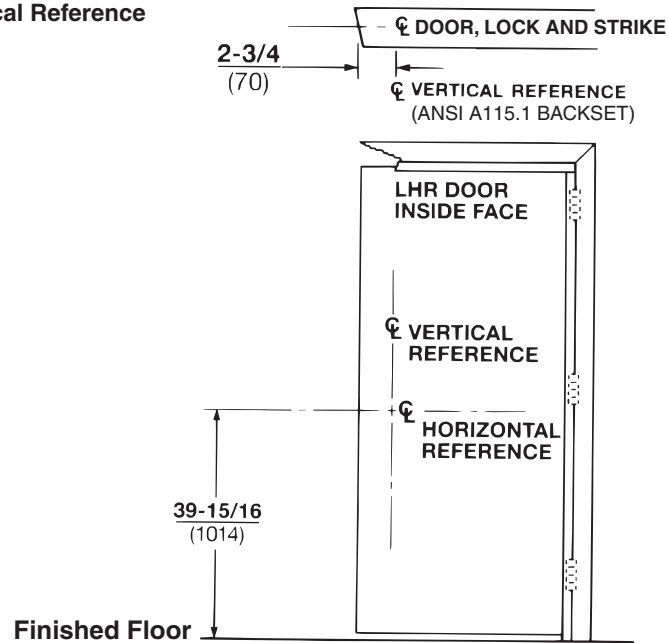
Min. Door Stile 4-1/2" (114mm)

Door and frame must meet structural and dimensional specifications on exit device template(s) for door and frame preparation.

Door Must Swing Freely

Reinforcement

Door Skin

Blind Rivet Nut

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1. Mark Door

Locate and Mark Horizontal and Vertical Reference Centerlines as shown.

LHR door shown preparation is typical for both door hands.

Note: Centerline of Lock (cutout) must match Horizontal Reference centerline.

₡ DOOR, LOCK AND STRIKE

2-3/4
(70)

₡ VERTICAL REFERENCE
(ANSI A115.1 BACKSET)

LHR DOOR
INSIDE FACE

₡ VERTICAL
REFERENCE

₡ HORIZONTAL
REFERENCE

39-15/16
(1014)

Finished Floor

2. Prepare Door & Frame

Factory prepared cutouts with field drilled mounting holes are recommended. If door (lock) and frame (strike) have to be mortised in the field, do it before continuing (follow instructions on Installation Template).

Spot and Prepare Mounting Holes As Follows:
A. Locate and tape Trim Template to door.
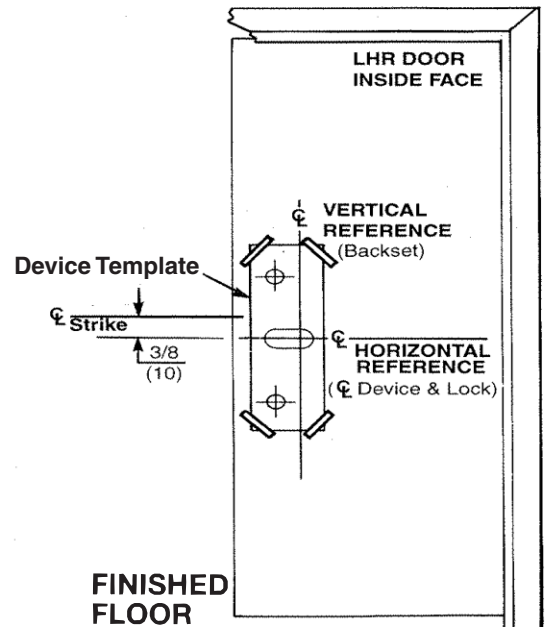   (See instructions packed with Trim.)

B. Locate "Device Template" aligning VERTICAL REFERENCE
   and HORIZONTAL REFERENCE lines on door and template.
   Tape template to door face.
   (1) slot 1/2" (12.7) Dia. x 1" (25.4) on centers thru inside door face and
   (2) Device holes for 1/4-20 Machine Screws*, or for 3/8" (9.5) Dia. Sex
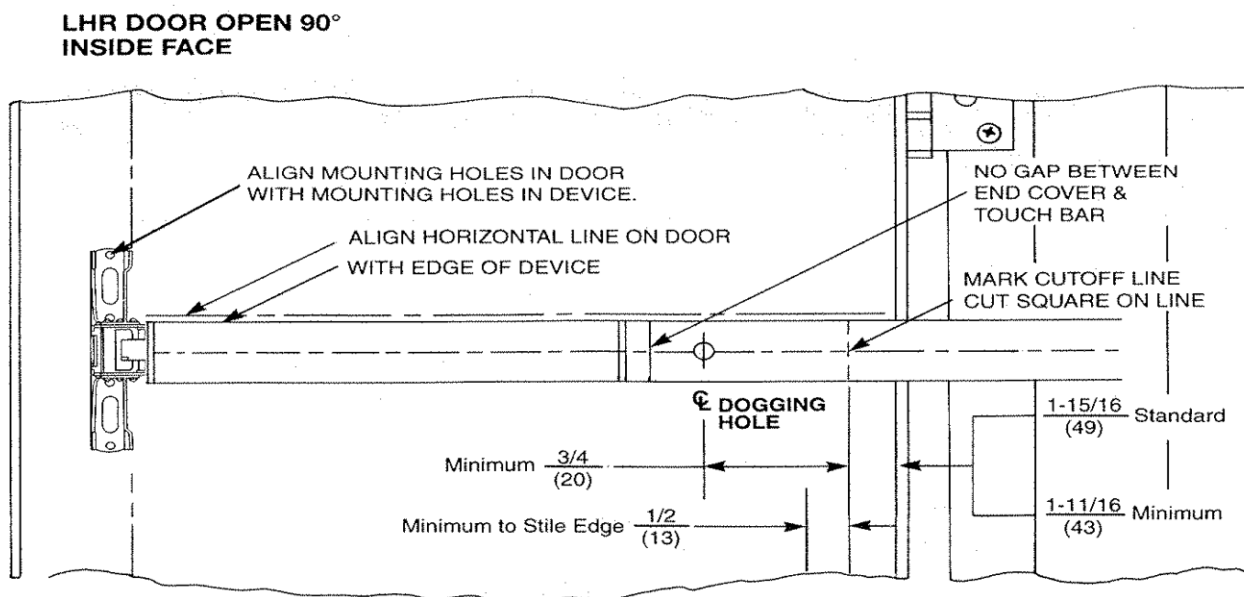   nuts and Bolts.
   (*) Metal reinforced doors only.

C. Insert lock into mortise, adjust front for door edge (beveled or flat)*.
   (2) Lock holes for 12-24 Machine Screws or for #12 Wood Screws.
   (*) NOTE: Lock base front has to be field tightened in place, (two screws,
      each on lock case top and bottom).

D. Seat strike in frame cutout.
   (2) Strike holes for 12-24 Machine Screws, or for #12 Wood Screws.

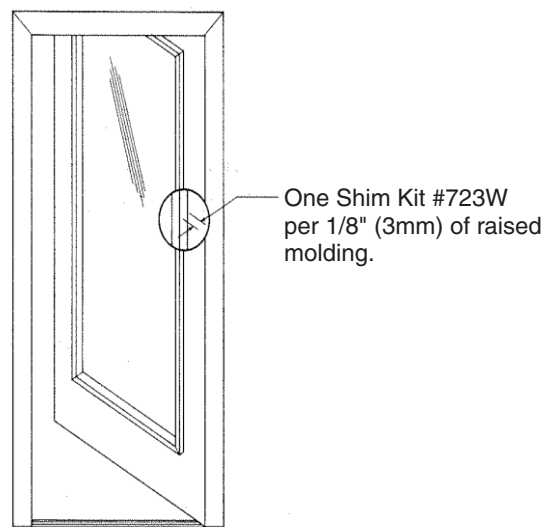LHR DOOR
INSIDE FACE

₡ VERTICAL
REFERENCE
(Backset)

Device Template

₡ Strike

3/8
(10)

₡ HORIZONTAL
REFERENCE
(₡ Device & Lock)

**FINISHED
FLOOR**

3

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3. Size Device

Device must be field cut to size, unless standard opening and device are 36" (0.91m).

**LHR DOOR OPEN 90°
INSIDE FACE**

ALIGN MOUNTING HOLES IN DOOR
WITH MOUNTING HOLES IN DEVICE.

ALIGN HORIZONTAL LINE ON DOOR
WITH EDGE OF DEVICE

NO GAP BETWEEN
END COVER &
TOUCH BAR

MARK CUTOFF LINE
CUT SQUARE ON LINE

℄ DOGGING
HOLE

Minimum $\frac{3/4}{(20)}$

Minimum to Stile Edge $\frac{1/2}{(13)}$

$\frac{1\text{-}15/16}{(49)}$ Standard

$\frac{1\text{-}11/16}{(43)}$ Minimum

4. Clear Raised Door Molding

**Device must seat flush on door surface, or
on shims that keep it parallel to door face.**

One Shim Kit #723W required for each 1/8" (3mm) of device lift needed.
Two Shim Kits Maximum for standard device in 1-3/4" (44) door.
For thicker doors, consult the factory.

One Shim Kit #723W
per 1/8" (3mm) of raised
molding.

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5. Install Components

A. Install Lock
Lock in hand, depress guardbolt. Check that latchbolt is deadlocked.

Check that latchbolt lever (and cylinder lever, hubs, and thumbpiece lever, if relevant) operate the lock freely.

Insert Lock Body into door cavity. Fasten to door edge (2 FHPWMS) Note: Make sure that door reinforcing clips or doorwalls support lock immovable (restricting rocking motion).

B. Install Armor Front
Fit over bolts and fasten to lock base front (2 PUFHMS). Check that bolts retract and extend freely.

C. Install Strike
Seat in place (lip bend away from opening). Fasten to frame (2 FHPWMS).

D. Install Trim
Follow instructions packed with trim.

E. Install Device
Seat Bar in place (Device finger must engage latchbolt lever, thru slot in lock case/cover, as shown in Detail 1). Fasten Device Head (2 PRHMS or SNB).
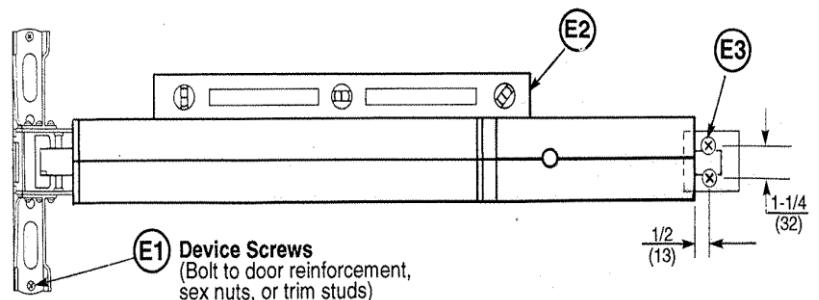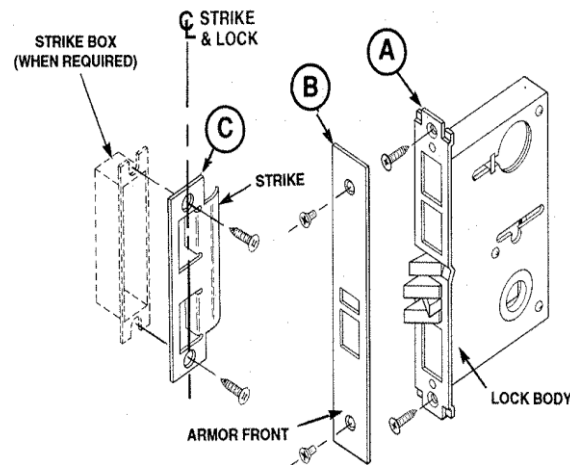
Set Bar level. Locate End Clamp holes.

Prepare end Clamp mounting holes. Fasten End Clamp in place. (2 #1/4-20 PRHMS or 3/8" (9.5) dia SNB)
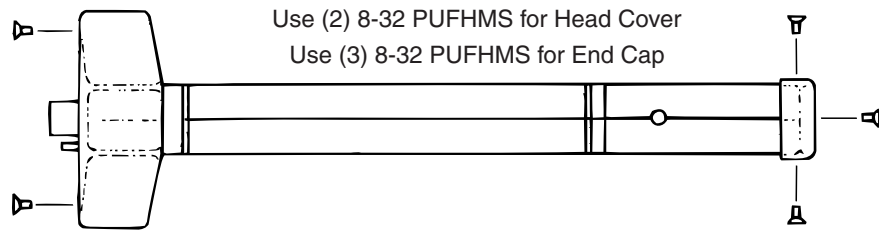
F. Check Operation
1. Depress touchbar (bolt must retract). Release touchbar (bolt must extend).
2. Actuate trim (bolt must retract). Release trim actuator (bolt must extend).
3. (NOT FOR FIRE DEVICES). Depress touchbar, turn dogging key clockwise (bar must remain depressed, bolt must remain retracted). Turn dogging key counterclockwise (bar and bolt must return to extended position).
4. Close door. Latchbolt should fully engage into strike cavity, guardbolt should retract over strike ramp. Door should not rattle.

NOTE: When resulting operation if faulty, check first for visible binding or interference. If there is no apparent reason for the fault, remove item from the door and recheck its operation before assuming that it is defective.

G. Tighten all mounting screws.

STRIKE BOX (WHEN REQUIRED)

C STRIKE & LOCK

STRIKE

ARMOR FRONT

LOCK BODY

E2

E3

1-1/4 (32)

1/2 (13)

E1 **Device Screws**
(Bolt to door reinforcement, sex nuts, or trim studs)

LATCH BOLT LEVER

FINGER

DETAIL 1

5

Use (2) 8-32 PUFHMS for Head Cover
Use (3) 8-32 PUFHMS for End Cap

80-9470-0030-000 (11-18)

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