SARGENT®

7800/8200
Mortise Locks
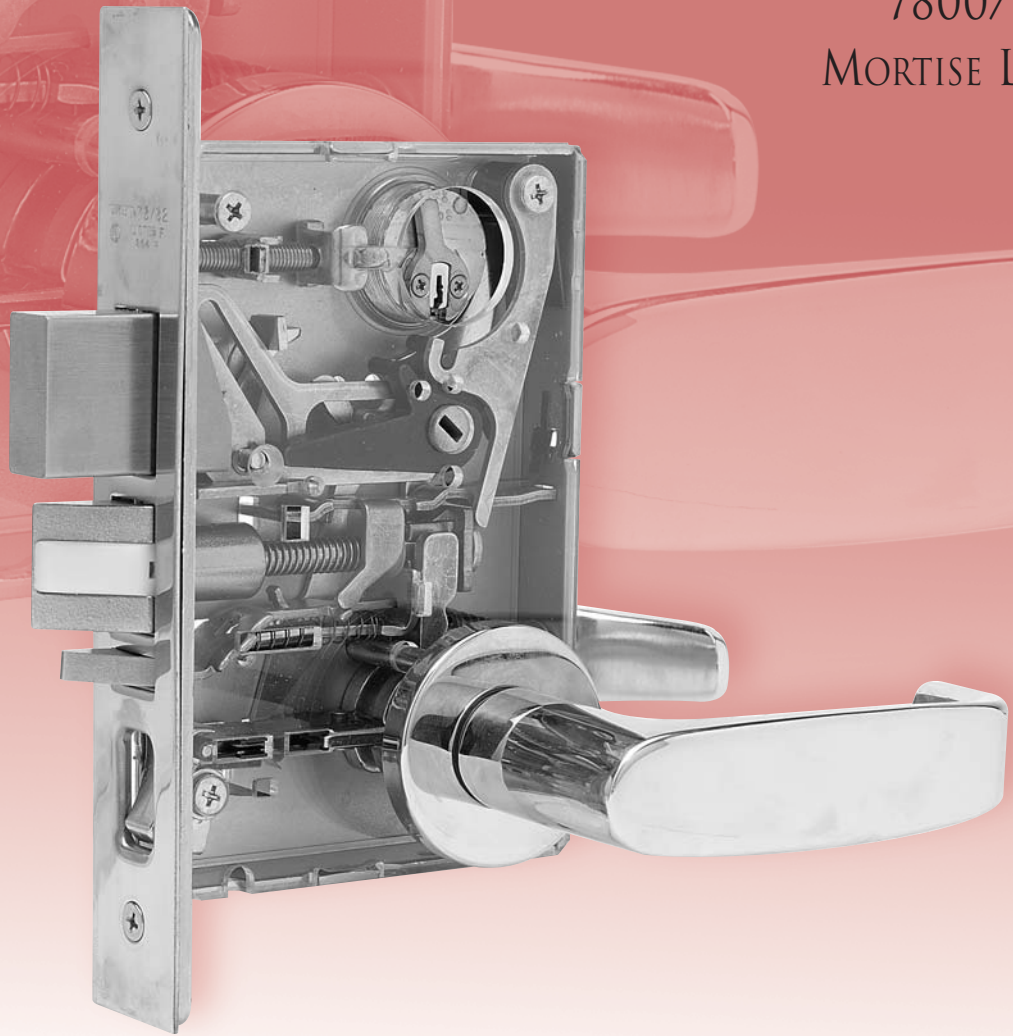
ASSA ABLOY

Table of Contents

SARGuard
Patent Pending

SARGuard Coating

- New finish coating available on all SARGENT product lines, utilizes a silver-based antimicrobial compound from AgION Technologies
- As an integral part of the finish coating, SARGuard lasts for the life of the hardware
- SARGuard coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. It is effective against a broad spectrum of bacteria.
- Non-toxic and completely safe. The Agion antimicrobial compound is EPA and NSF approved and FDA listed for use in medical and food preparation equipment.
- Applications: Anywhere there is need for a clean environment (hospitals, laboratories, schools, medical centers, daycare, food processing etc.)

AgION

The AgION antimicrobial is not intended as a substitute for good hygiene. Coated products must still be cleaned to insure the surfaces will be free of destructive microbes. SARGENT makes no representations or warranties, express or implied, as to the efficacy of the AgION antimicrobial. A copy of the AgION warranty is available upon request.

On The Cover

- 8205 LNB LHRB

Specifications

For Doors	1-3⁄4" (44mm) thick standard. For doors over 1-3⁄4" (44mm), specify door thickness and panels (if any)
Backset	2-3⁄4" (70mm) only
Case	12 gauge heavy duty wrought steel, zinc dichromate plated. Thickness 7/64" (3mm) (.109")
Outside Front Plate	Brass, bronze or stainless steel. 8" (203mm) x 1-1⁄4" (31mm), ANSI Standard A115.1. Adjustable at any angle from flat to beveled 1⁄8" (3mm) in 2" (51mm)
Springs	High carbon steel
Hubs for Knobs	Sintered iron copper infiltrated
Hubs for Levers	Cold forged steel
Hubs for Institutional	Stainless steel (3- prefix)
Latchbolt	Stainless steel 3⁄4" (19mm) projection one-piece, anti-friction reversible latchbolt
Guardbolt	Stainless steel, non-handed
Deadbolt	Stainless steel, with hardened steel rollers standard 1" (25mm) projection
Hand	Specify hand on order; easily field reversible (if no hand is specified RH will be provided)
Strike	Brass, bronze or stainless steel; ANSI Standard A115.1; curved lip, non-handed (strike box optional)
Keys	Two, nickel silver (control key or emergency key must be ordered when required)
Cylinder	Brass, size #41 standard. Available with SARGENT Signature, V-10, XC and KESO Security Systems
Masterkeying	Can be masterkeyed or grand masterkeyed. Construction keying available
Finishes	3, 4, 9, 10, 10B, 10BL, 20D, 26, 26D, 32, 32D
Classroom Security	38, 39, 40, 41 Functions (All mortise trim designs available except KE/LE 3 & 4 and PT trim or FE trim with 41 function)
Stile	4-1/2" (114mm) minimum stile for 7800/8200, 4-3/4" (121mm) minimum stile for electrical function locks
Door Prep	ANSI A115.1 modified per template, see template for 7800/8200 lockbody & trim
Warranty	5 year limited warranty, 2 year limited warranty on electrified locks

Certification Compliance

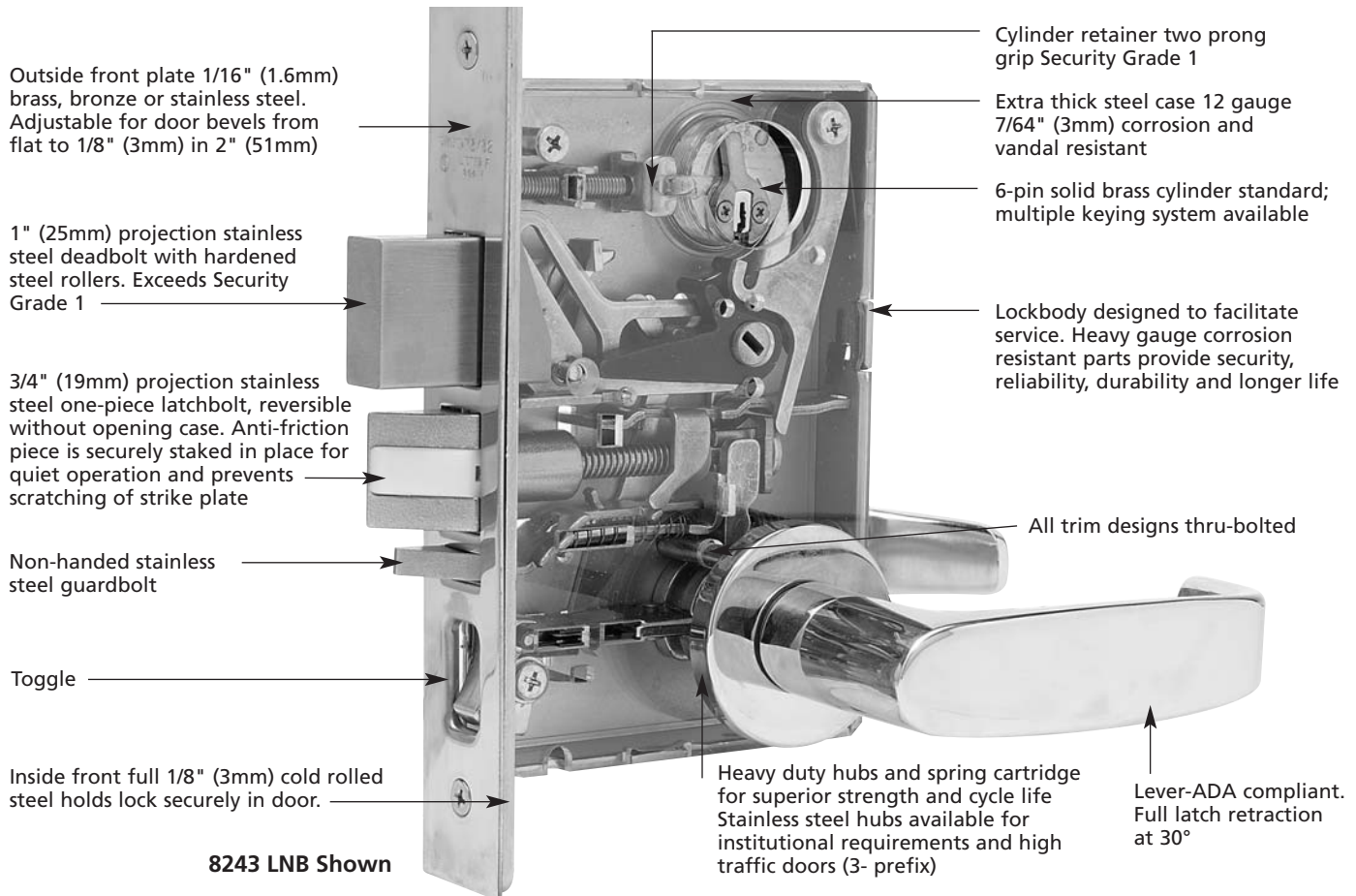|		
ANSI/BHMA		ANSI Meets A156.13 Operational Grade 1 Series 1000 and Security Grade 1 with all standard trims. ANSI/ASTM F476-84 Grade 40 with concealed mortise cylinder
Note		Removable and SFIC Cylinders do not meet Security Grade 1 requirements.
ADA	♿	Meets A117.1 Accessibility Code. Meets BOMA International 4.13.8 Complies with American Disability Act; Consult local authorities
UL		UL and UL Listed to Canadian safety standards for A label (3 hour fire door) and lesser class doors, stamped letter F and UL symbol on armored front indicate listing
Positive Pressure		Meets positive pressure requirements UL 10C and UBC 7-2 (1997)
California		California State Reference Code (Formerly Title 19, California State Fire Marshal Standard) All levers with returns comply; levers return to within 1/2" (13mm) of door face
Hurricane Codes		Consult factory for details
USA		Complies with Buy American Act

SARGENT Mortise Locks are designed and constructed with high quality components to provide high security, performance and durability. These locks represent over a century of innovation and experience in manufacturing hardware and are the industry's benchmark for mortise locks: Strong - Durable - Flexible – Innovative and Secure

Outside front plate 1/16" (1.6mm) brass, bronze or stainless steel. Adjustable for door bevels from flat to 1/8" (3mm) in 2" (51mm)

1" (25mm) projection stainless steel deadbolt with hardened steel rollers. Exceeds Security Grade 1

3/4" (19mm) projection stainless steel one-piece latchbolt, reversible without opening case. Anti-friction piece is securely staked in place for quiet operation and prevents scratching of strike plate

Non-handed stainless steel guardbolt

Toggle

Inside front full 1/8" (3mm) cold rolled steel holds lock securely in door.

Cylinder retainer two prong grip Security Grade 1

Extra thick steel case 12 gauge 7/64" (3mm) corrosion and vandal resistant

6-pin solid brass cylinder standard; multiple keying system available

Lockbody designed to facilitate service. Heavy gauge corrosion resistant parts provide security, reliability, durability and longer life

All trim designs thru-bolted

Heavy duty hubs and spring cartridge for superior strength and cycle life Stainless steel hubs available for institutional requirements and high traffic doors (3- prefix)

Lever-ADA compliant. Full latch retraction at 30°

8243 LNB Shown

Features

Strength
- Exceeds ANSI A156.13, Series 1000, Operational Grade 1 and Security Grade 1 with all standard trims
- 12 gauge (.109) steel case and cap
- 1/8" (3mm) cold-rolled steel inside front holds lock securely in door
- Heavy duty wrought steel hubs and high carbon steel spring cartridge provide superior strength and cycle life
- 3/4" (19mm) stainless steel throw latch. One piece construction to offer 1" (25mm) total bearing surface against the strike
- Stainless steel hubs available for institutional applications
- 1" (25mm) throw stainless steel deadbolt with 2 hardened steel rollers

Durability
- Exceeds 2 X the ANSI/BHMA A156.13 Grade 1 standard for cycle testing
- 5 Year mechanical warranty. No service required to maintain warranty

Security
- Classroom and hospital security functions available
- Multiple security trim options available: Free-wheeling, security escutcheon and anti-vandal pull trim (Patent Pending)
- Patented Security key systems (V-10, Signature, Keso, XC)

Flexibility
- Fast and easy installation. Lock is easily re-handed without removing parts or opening the lock case. U. S. Patent No. 5,678,870
- Aesthetic design. Many escutcheon and lever designs available to match a wide range of styles
- 11 Standard architectural grade finishes
- 32 Standard functions and 4 electrical functions. The most in the industry for a broad range of applications
- Versatile. Offered for door thicknesses ranging from 1-3/8" to 6" (35mm to 152mm)
- Security. Available with vandalism deterrent trim and/ or secure fastener options for high abuse conditions
- Available with push/pull trim. Perfect for hospital applications

Innovation
- Easy operation. Only 30° of lever rotation required to retract latchbolt
- Lever springs contained inside of the lock case for easier installation
- Unique spring design. Provides longer lock life, no lever sag and simple installation

8200 Mortise Locks
Coastal Series™
Decorative Levers, Roses, Escutcheons & Turns

SARGENT
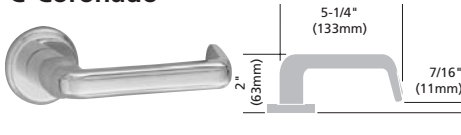1-800-727-5477
www.sargentlock.com

Features

- Elegant trim designs that meet your design needs with the highest quality mortise lock construction
- Levers that curve and contour to the hand for a comfortable grip
- All levers meet ADA guidelines
- Coronado lever meets California's State Fire Marshal Standard
- All Coastal Series™ levers are interchangeable with all Coastal Series™ rose and escutcheon designs

- All levers – solid cast brass
- Escutcheons - solid forged brass
- Roses - machined brass
- Finishes available 3, 4, 9, 10, 10B, 10BL, 20D, 26, 26D
- 5 year limited warranty

Note: 184 emergency release also available in traditional and contemporary designs.

Roses, Escutcheons & Turns

TE Traditional Escutcheon
2" (51mm) 5/16" (8mm) 7-7/8" (200mm)

TR Traditional Rose
2-3/16" (56mm) 5/16" (8mm)

130T Traditional Turn
2-1/8" (54mm) 13/16" (20mm)

S Sanibel™
5" (127mm) 2-1/2" (63mm) 3-7/16" (87mm)

- Shown with contemporary rose CR
- Must specify hand when ordering

C Coronado™
5-1/4" (133mm) 2" (63mm) 7/16" (11mm)

- Shown with traditional rose TR

R Rockport™
4-3/4" (121mm) 2-3/4" (70mm) 1-7/8" (47mm)
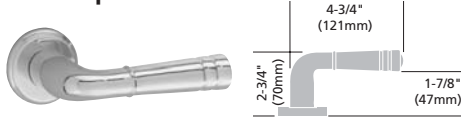
- Shown with traditional rose TR

Y Yarmouth™
5" (127mm) 2-5/8" (67mm) 1-7/8" (47mm)
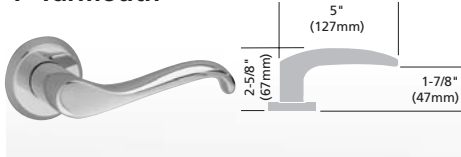
- Shown with contemporary rose CR
- Must specify hand when ordering

G Gulfport™
5" (127mm) 2-15/16" (74mm) 1-15/16" (50mm)

- Shown with contemporary rose CR
- Must specify hand when ordering

CE Contemporary Escutcheon
2" (51mm) 5/16" (8mm) 7-7/8" (200mm)
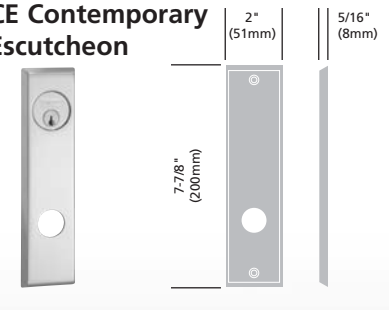
CR Contemporary Rose
2-3/16" (56mm) 5/16" (8mm)
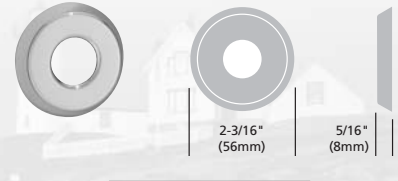
130C Contemporary Turn
2-1/4" (57mm) 13/16" (20mm)
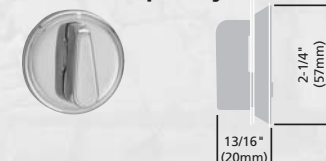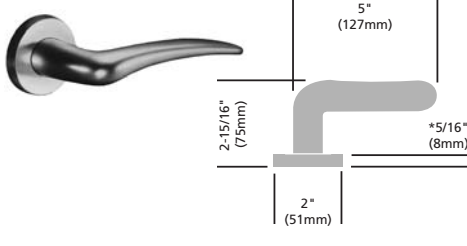
- Levers A, B, E, F, L, P – Forged or cast
- Levers J and W – Solid
- L and LN rose – Heavy wrought
- All lever designs can be used with all standard rose and escutcheon designs (LN designs shown), not interchangeable with Coastal Series™ designs
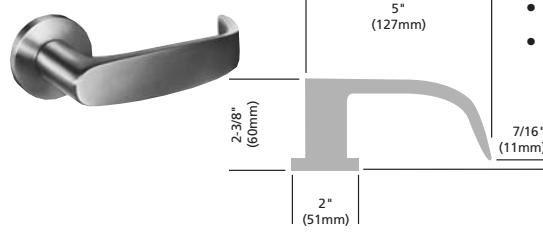
Custom or Specialty Trims (levers, escutcheons and roses) by other manufacturers, must meet all lever mounting dimensional requirements as specified on Instruction Sheet A5759.
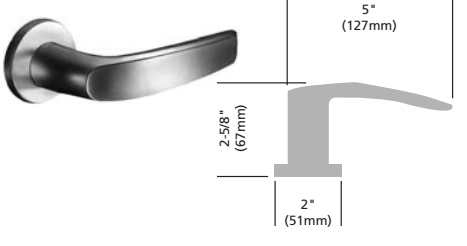
LNA Design

5" (127mm)
2-15/16" (75mm)
*5/16" (8mm)
2" (51mm)

- Rose: LN
- Lever: A
- Must specify hand when ordering

LNL Design

5" (127mm)
2-3/8" (60mm)
7/16" (11mm)
2" (51mm)

- Rose: LN
- Lever: L

LNB Design

5" (127mm)
2-5/8" (67mm)
2" (51mm)

- Rose: LN
- Lever: B

LNP Design

5-1/2" (140mm)
2-1/2" (67mm)
5/16" (8mm)
2" (51mm)
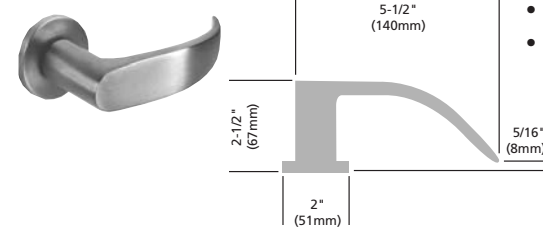
- Rose: LN
- Lever: P

LNE Design

4-1/2" (114mm)
2-1/2" (64mm)
2" (51mm)
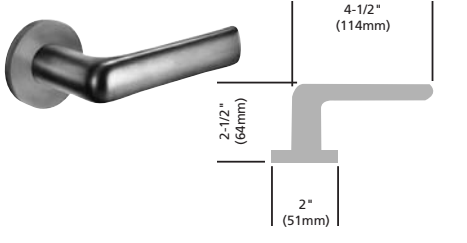
- Rose: LN
- Lever: E

LNW Design

4-1/2" (114mm)
2-1/2" (64mm)
2" (51mm)
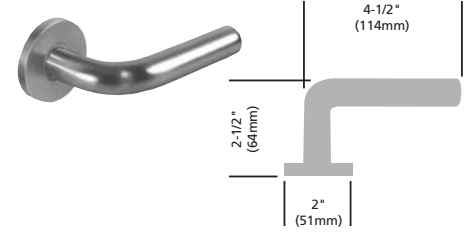
- Rose: LN
- Lever: W

LNF Design

4-1/2" (114mm)
2-3/4" (67mm)
2" (51mm)
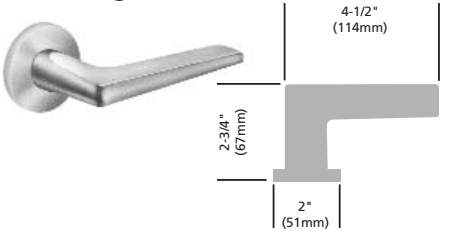
- Rose: LN
- Lever: F

L Rose

3-1/2" (89mm)
5/16" (8mm)

LNJ Design

5-1/4" (133mm)
2-13/16" (71mm)
5/16" (8mm)
2" (51mm)
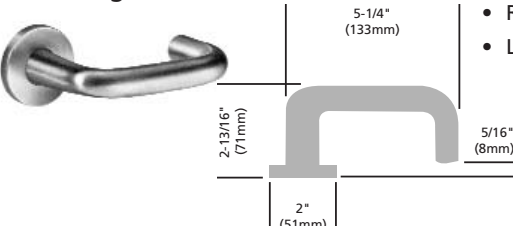
- Rose: LN
- Lever: J

* Same measurement for all LN Rose Designs

- All lever designs can be used with standard rose and escutcheon designs
- Levers A, B, E, F, L, P - Forged or cast
- Levers J and W - Solid
- Lever designs C, J, L and P have lever returns within 1/2" (13mm) or less of door face and meet ADA Compliance for national codes
- Cylinders will protrude from each escutcheon face on double cylinder functions only

LE1L/LE2L Design

- LE: Escutcheon
- L: Lever

7-5/8" (194mm)
1-3/4" (44mm)
₵ of cylinder
6-7/8" (175mm)
3-7/8" (98mm)

- Forged escutcheon
- LE1- (2) Exposed screws inside
- LE2- (2) Concealed screws inside

LE3B/LE4B Design

- LE: Escutcheon
- B: Lever

7-5/8" (194mm)
1-5/8" (41mm)
₵ of cylinder
6-7/8" (175mm)
3-7/8" (98mm)

- Forged escutcheon
- LE3- (2) Exposed screws inside
- LE4- (2) Concealed screws inside
- Not available on double cylinder functions

LW1L Design

- LW1: Escutcheon
- L: Lever

8" (203mm)
2" (51mm)
₵ of cylinder
6-7/8" (175mm)
3-7/8" (98mm)

- Wrought escutcheon
- (2) Exposed screws inside

WTL Design

- WT: Escutcheon
- L: Lever

2-1/2" (65mm)
6-9/16" (170mm)
7-3/8" (187mm)
1-17/32" (39mm)
₵ of cylinder
7-3/8" (187mm)
3-7/8" (98mm)

- Heavy wrought escutcheon
- Surface mounted both inside and outside
- (4) Exposed screws both inside and outside

LSL Design

- LS: Escutcheon
- L: Lever

3/8" (10mm)
₵ of cylinder
7-3/4" (197mm)
3-7/8" (98mm)
6-11/16" (170mm)
2-1/2" (64mm)
2-1/2" (64mm)

Outside   Inside

- Forged escutcheon
- Security Trim
- (4) Spanner security screws are exposed on inside trim standard

8200 Mortise Locks
Freewheeling Trim Design – FE
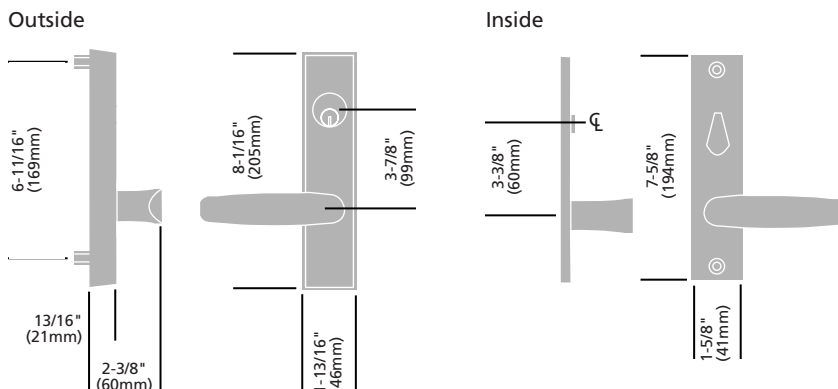# ADA and Handicap Warning

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Inside **Outside**

8225 FEL shown

Outside

6-11/16" (169mm)

13/16" (21mm)

2-3/8" (60mm)

8-1/16" (205mm)

3-7/8" (99mm)

1-13/16" (46mm)

Inside

3-3/8" (60mm)

7-5/8" (194mm)

1-5/8" (41mm)

Maximum projection varies by lever design
Largest projection is "A" lever – 3-9/16" (90mm)

Features

The Freewheeling Mortise Trim is designed for areas that are susceptible to vandalism, including schools, universities, public buildings, back doors of businesses and any exterior doors where excessive or abusive force might be applied to the lever handle trim.

This design allows the outside lever handle to swing freely, down to 70°, in the "locked" mode. This eliminates resetting the trim after vandalism attempts because the lever automatically returns to its original position.

- For 1-3/4" (44mm) doors standard. For 2" (51mm) and 2-1/4" (57mm) thick doors, must specify door thickness on order.
- Vandal resistant trim
- Meets or exceeds ANSI A156.13 Series 1000 Grade 1 Operational and Security. Removable and SFIC cylinders do not meet Security Grade 1.

- Forged brass outside escutcheon trim provides added protection against vandalism
- Stainless steel lever bushing protects against wear
- Stainless steel lugs and thru-bolted trim design for proper alignment and increased security
- Retrofits 8200 mortise lock with same function, excluding 8205, 8216 and 8236 functions. These three functions can be achieved by functions 8285, 8286 and 8287 respectively.
- Functions available – 04, 05(as 85), 16(as 86), 17, 24, 25, 26, 31, 35, 36(as 87), 37, 38, 39, 40, *50, 65, 66, 85, 86, 87, 71, 73
- Levers A, B, E, F, J, L, P, W available

- Lever designs J, L and P have lever returns within 1/2" (13mm) or less of door and meet ADA Compliance for national codes
- Cylinder will protrude from escutcheon face on double cylinder functions only
- Cylinder sizes #46 outside, #41 inside standard on 1-3/4" (44mm) doors
- Specify hand, easily field rehanded
- Patented design – U.S. Patent No. 5,992,195
- Prefixes available: 3-, 10-, 10-UL-, 11-, 21-, 23-, 36-, 37- 60- 63-, 64-, 74-, 75-, 76-, 77-, 82-, SG-, VA-, VC- and VS-
  Some prefixes not available on thicker doors
- * Standard cylinder provided when ordering 50 function

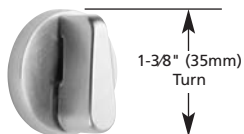## ADA and Handicap Warning

Lever Return to Door

- Lever designs C, J, L and P
- Lever returns within 1/2" (13mm) of door face or less
- Meets ADA Compliance for national codes

Standard Thumb Turn

1-3/8" (35mm) Turn

- Meets ADA Compliance for national codes
- Order as: 130KA, 130KP or 130W x finish

LB – Thumb Turn

2" (51mm) Turn

- Meets the tougher local ADA requirements
- 40% larger than standard thumb turn
- Order as: 130LB x finish

Tactile Handicapped Warning

- Milled Lever
- 1/16" (2mm) wide milled grooves
- **A Lever** – 4 each grooves on bottom surface of lever
- **B, E, J, L, P and W Levers** – 4 each grooves on backside surface of lever
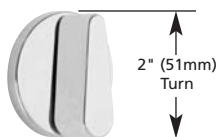- **F Lever** – 4 each grooves on top and bottom surface of lever
- B Lever shown

Tactile Handicapped Warning

- Knurled knob
- Knobs are NOT ADA compliant

Keys

- Large bow keys are available
- Standard key bows can have attachments added to increase the grip area
- Keys are NOT ADA compliant

7800/8200 Mortise Locks
7800 Push/Pull Trim – PT
# 7800/8200 Anti-Vandal Trim – AV

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7800 Push/Pull Trim – PT

The Push/Pull design known for its ease of operation, is coupled with the strength and integrity of a mortise lock to provide greater versatility. The trim, commonly used in hospitals and health care facilities, can now service conference rooms, handicapped restrooms, laboratories and pharmaceutical facilities that require more durability and security features than a cylindrical lock can provide.

Push down
Pull up

Push up
Pull up

Push up
Pull down

Push down
Pull down
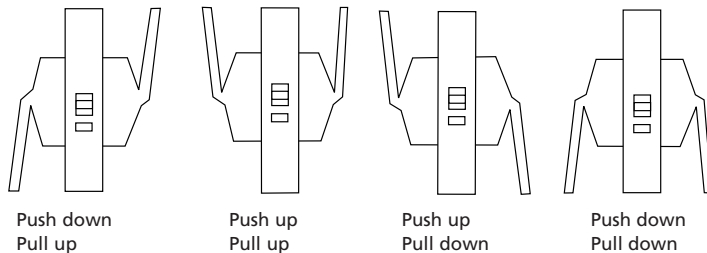
*Consult factory on instructions to modify existing lockbodies.
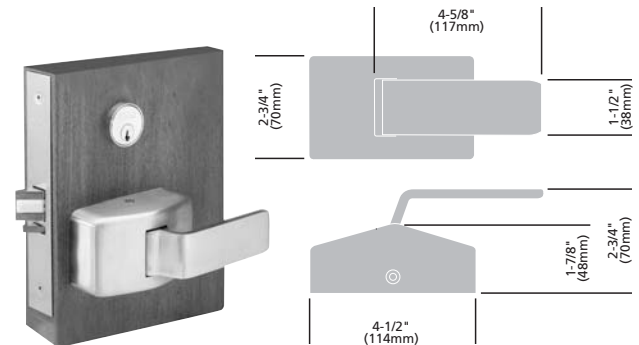
7837 PT
Horizontal Mount Shown

• Spindle centered in escutcheon

Features

- Paddle trim orientation can be mounted in vertical (up or down) and horizontal positions as a standard product
- Down or horizontal paddle orientation is required for cylinder applications
- Horizontal paddle orientation is required for functions having thumbturns
- Stile requirement – minimum of 5" (125mm)
- Door thickness 1-3/4" (44mm) to 2" (51mm) standard with adaptable spindle
- Easy installation
- Handing is easily field reversible
- Thru-bolted trim for stability

- 6 Lobe security (Torx®) type screws standard for escutcheon trim only – Spanner Security screws optional as 37-prefix
- Engraving on paddle – consult factory
- Functions available: 04, 15, 16, 17, 24, 26, 37, 43, 45, 50, 65
- Lead lining is available as option (Lockbody only)
- Anti-loosening adapter plates
- Escutcheon is zinc diecast or heavy wrought stainless steel
- Paddle is zinc diecast or stainless steel
- U.S. Patent No. 6,398,274
- Finishes: 3, 4, 9, 10, 10B, 10BL, 20D, 32, 32D

7800/8200 Anti-Vandal Trim – AV

Designed for exterior doors that require extra security or resistance to vandalism. AV anti-vandal trim plates have an extended lip on the active side of the door to provide extra protection for the latch, deadbolt and guardbolt. A matte plastic coated grip edge provides a comfortable pull that feels good over wide temperature ranges. Fully thru-bolted without exposed exterior fasteners for a clean look and increased security.

Features

- Heavy duty 12 gauge stainless steel in 32D finish
- Thru-bolted through mortise lock body and door for added strength
- Handed – Specify RHRB or LHRB
- ADA Compliant
- Patent Pending
- Available for all inside trims except LS/KS, FE and PT
- Functions available: 03, 04, 06, 17, 20, 21, 22, 23, 31, 50, 91 and 92
- For inactive door available without protective lip

RHRB shown
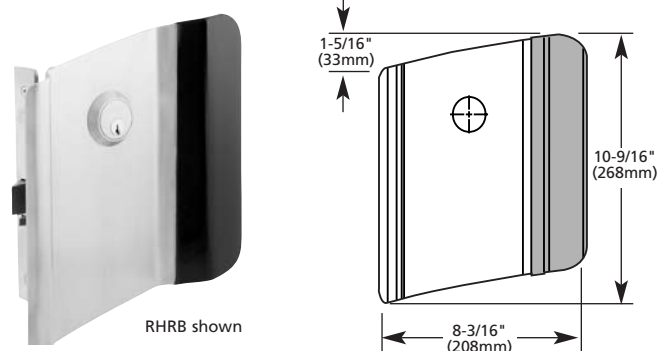
667 AV Kit

Retrofit kits for 7800, 8200 & 9200 mortise locks

• 1SB rosette supplied standard

Part Number	Hand	Functions
667-1	RHRB	04, 06, 17, 31, 50, 91 & 92
667-2	LHRB	04, 06, 17, 31, 50, 91 & 92
667-3	RHRB	03, 20, 21, 22 & 23
667-4	LHRB	03, 20, 21, 22 & 23
667-5	RHRB	Inactive door, without lip
667-6	LHRB	Inactive door, without lip

• Knobs B and C wrought

OC Design

2-7/8" (73mm)
1/4" (6mm)
2-3/4" (70mm)
2-1/4" (57mm)

• O: Rose
• C: Knob

LB Design

3-1/4" (79mm)
1/4" (6mm)
3-1/2" (90mm)
2-1/8" (54mm)

• L: Rose
• B: Knob

EB Design

3-1/4" (79mm)
1/4" (6mm)
3-1/6" (78mm)
2-1/8" (54mm)

• E: Rose
• B: Knob

KE1B/KE2B Design

1-5/8" (41mm)
℄ of cylinder
7-5/8" (194mm)
3-7/8" (98mm)
2-1/8" (53mm)

• KE1: Escutcheon
• B: Knob
• Forged escutcheon
• KE1- (2) Exposed screws inside
• KE2- (2) Concealed screws inside

KE3B/KE4B Design

1-5/8" (41mm)
℄ of cylinder
7-5/8" (194mm)
3-7/8" (98mm)
2-1/8" (53mm)

• KE3: Escutcheon
• B: Knob
• Forged escutcheon
• KE3- (2) Exposed screws inside
• KE4- (2) Concealed screws inside
• Not available on double cylinder functions

KW1B Design

2" (51mm)
℄ of cylinder
8" (203mm)
3-7/8" (98mm)
2-7/8" (73mm)

• KW1: Escutcheon
• B: Knob
• Wrought escutcheon
• (2) Exposed screws inside

WTC Design
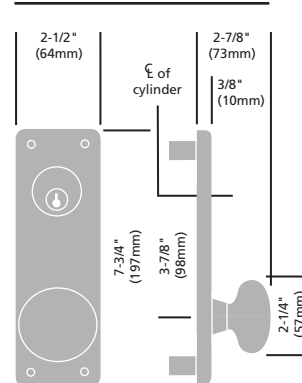
2-1/2" (65mm)
℄ of cylinder
7-3/8" (187mm)
3-7/8" (98mm)
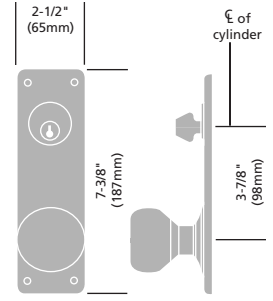
• WT: Escutcheon
• C: Knob
• Heavy wrought escutcheon and knob
• Surface mounted
• (4) Exposed screws inside and outside
• 1673 (screwless) Knob also available on WT escutcheon
• Screw locations match prior MRL trim
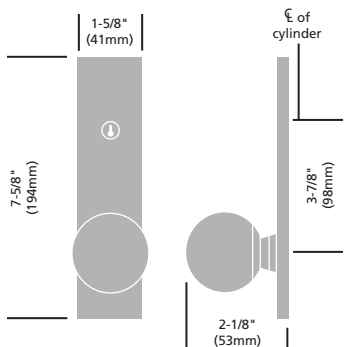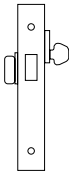
KS 1485 Design

2-1/2" (64mm)
℄ of cylinder
2-7/8" (73mm)
3/8" (10mm)
7-3/4" (197mm)
3-7/8" (98mm)
2-1/4" (57mm)

Outside

Inside

• KS: Escutcheon
• 1485 Knob only
• Forged escutcheon and knob
• (4) Spanner screws are exposed on inside trim
• Consult factory for 70, 71, 72 and 73 function availability as a special
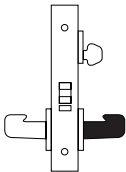• All functions will have escutcheons both sides

03 Classroom Deadlock

8203

- Deadbolt operated from outside by key
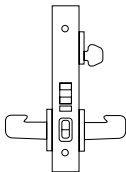- Thumb turn lever inside retracts deadbolt only, but will not project it
- ANSI F29

*‡04 Storeroom or Service

8204, 7804

- Guardbolt deadlocks latchbolt
- Latchbolt retracted by trim inside or key outside
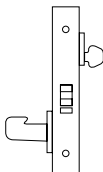- Outside trim rigid at all times
- ANSI F07

05 Office

8205, 7805

- Guardbolt deadlocks latchbolt
- Latchbolt retracted by either trim unless outside trim is locked by toggle in lock front
- Key outside retracts latchbolt when outside trim is locked
- Locking and unlocking toggle must be done manually
- ANSI F04

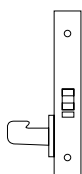## 06 Storeroom or Service

8206, 7806

- Guardbolt deadlocks latchbolt
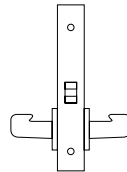- Latchbolt retracted by trim inside or key outside

13 Exit Latch

8213, 7813

- Guardbolt deadlocks latchbolt
- Latchbolt retracted by trim inside
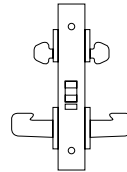- No outside trim, except on FS, LS designs

‡15 Passage

8215, 7815

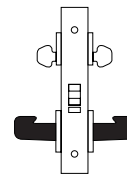- Latchbolt retracted by either inside or outside trim
- ANSI F01

‡16 Public Entrance

8216, 7816

- Guardbolt deadlocks latch bolt
- Latchbolt retracted by either trim unless outside trim is locked by key inside
- Key outside only retracts latchbolt when outside trim is locked, but cannot unlock the lever
- Inside trim always operable
- ANSI F09

*‡17 Utility

8217, 7817

- Guardbolt deadlocks latchbolt
- Both trim rigid at all times
- Latchbolt retracted by key either side

✦20 Deadlock
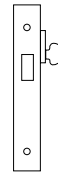
8220

- Deadbolt operated from outside by key only
- No inside operation
- ANSI F18

21 Deadlock

8221

- Deadbolt operated from outside by key
- Deadbolt operated from inside by thumb turn lever
- ANSI F17

If shaded, knob or lever rigid at all times

*8200 Available with Freewheeling Trim

‡7800 Available with Push/Pull Trim

✦22 Deadlock

8222

- Deadbolt operated from either side by key
- **ANSI F16**

23 Classroom Deadlock

8223

- Deadbolt operated from either side by key
- Thumb turn lever inside retracts deadbolt only, but will not project it

*‡24 Storeroom

8224, 7824

- Latchbolt retracted by either trim
- Deadbolt operated from outside by key, inside by thumb turn lever
- When deadbolt is projected, outside trim is automatically locked
- Operating inside trim retracts latchbolt. Deadbolt retracted by thumb turn
- **ANSI F21**

*25 Dormitory

8225, 7825

- Latchbolt retracted by either trim
- Deadbolt operated from outside by key, inside by thumb turn lever
- When deadbolt is projected, outside trim is automatically locked
- Operating inside trim automatically retracts latchbolt and deadbolt unlocking outside trim
- **ANSI F13**

*‡26 Storeroom

8226, 7826

- Latchbolt retracted by either trim
- Deadbolt operated from either side by key
- Inside and outside trim do not retract deadbolt
- **ANSI F14**

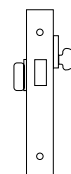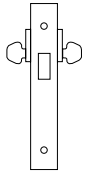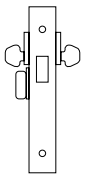## ✦*31 Utility

8231, 7831

- Guardbolt deadlocks latchbolt
- Latchbolt retracted by key outside
- Outside trim rigid at all times
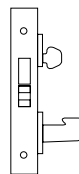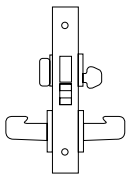- No inside trim, except on KS, LS design

✦*35 Storeroom

8235, 7835

- Deadbolt operated from outside by key
- Latchbolt retracted by outside trim except when deadbolt is projected, outside trim is automatically locked
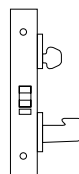
✦36 Closet

8236, 7836

- Guardbolt deadlocks latch bolt
- Latchbolt retracted by outside trim
- Key outside lock or unlocks outside trim

*‡37 Classroom

8237, 7837

- Guardbolt deadlocks latchbolt
- Latchbolt retracted by either trim unless outside trim is locked by key
- Key outside locks or unlocks outside trim
- Inside trim always operative
- Latchbolt can be retracted by key
- **ANSI F05**

*38 Classroom Security

8238, 7838

- Guardbolt deadlocks latchbolt
- Latchbolt retracted by either trim unless outside trim is locked by key
- Key on either side locks or unlocks outside trim
- Latchbolt can be retracted by key when outside trim is locked
- Inside trim always able to retract latchbolt, but outside trim remains locked
- **ANSI F32**

If shaded, knob or lever rigid at all times

*8200 Available with Freewheeling Trim

‡7800 Available with Push/Pull Trim

✦**CAUTION**: Not recommended for use on any door used for Life Safety egress

*39 Classroom Security
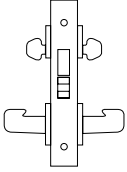
8239, 7839

- Latchbolt retracted by either trim unless outside trim is locked by key
- Deadbolt operated by key on either side
- When deadbolt is projected, outside trim is automatically locked
- Key retraction of deadbolt unlocks outside trim
- Operating inside trim automatically retracts latchbolt, and deadbolt, and unlocks outside trim
- **ANSI F33**

*40 Classroom Security

8240, 7840

- Guardbolt deadlocks latchbolt
- Latchbolt retracted by either trim unless outside trim is locked by key
- Deadbolt operated by key on either side
- When deadbolt is projected, outside trim is automatically locked
- Key retraction of deadbolt unlocks outside trim
- Operating inside trim automatically retracts latchbolt and deadbolt, and unlocks outside trim
- **ANSI F34**

41 Classroom Security

8241, 7841

- Guardbolt deadlocks latchbolt
- Latchbolt retracted by either trim unless outside trim is locked by key
- Deadbolt operated by key on either side
- When deadbolt is projected, outside trim is automatically locked
- Operating inside trim automatically retracts latchbolt and deadbolt, outside trim remains locked
- Key retraction of latchbolt either side unlocks outside trim

‡43 Dwelling Entrance

8243, 7843

- Guardbolt deadlocks latchbolt
- Latchbolt retracted by either trim unless outside trim is locked by toggle in lock front
- Deadbolt operated by key outside, thumb turn lever inside
- Key outside retracts both latchbolt and deadbolt
- When deadbolt is projected, outside trim is automatically locked
- Operating inside trim automatically retracts latchbolt and deadbolt with outside trim remaining locked
- **ANSI F20**

‡45 Dwelling Entrance

8245, 7845

- Latchbolt retracted by either trim unless outside trim is locked by toggle in lock front
- Deadbolt operated by key outside, thumb turn lever inside
- Key outside retracts both latchbolt and deadbolt
- When deadbolt is projected, outside trim is automatically locked
- Operating inside lever automatically retracts latchbolt and deadbolt with outside trim remaining locked
- **ANSI F12**

*‡ 50 Hotel

8250, 7850

- Guardbolt deadlocks latchbolt
- Latchbolt retracted by key outside or trim inside
- Outside trim always rigid
- Projecting deadbolt from inside by thumb turn or emergency key outside when door is closed, shuts out all keys except emergency key
- Inside trim retracts latchbolt and deadbolt simultaneously and allows all key operation of latchbolt
- Not available with certain key systems – see prefix page
- 2-3/4" (70mm) door thickness maximum
- **ANSI F15**

*‡ 65 Bathroom
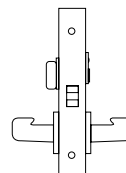
8265, 7865

- Latchbolt retracted by either trim
- Thumb turn lever lock/unlocks outside lever
- Operating inside (trim) automatically retracts latchbolt unlocking outside trim
- Operating outside emergency release with emergency key or flat blade screwdriver unlocks outside trim
- Closing door will automatically unlock the outside lever
- **ANSI F22**

*8200 Available with Freewheeling Trim

‡7800 Available with Push/Pull Trim

✦**CAUTION**: Not recommended for use on any door used for Life Safety egress

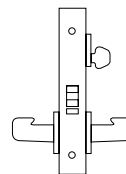If shaded, knob or lever rigid at all times

*66 Bathroom/Privacy

8266, 7866
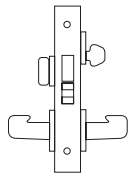
- Latchbolt retracted by either trim
- Deadbolt operated from outside by emergency release, inside by thumb turn lever
- When deadbolt is projected, outside trim is automatically locked
- Operating inside trim automatically retracts latchbolt and deadbolt unlocking outside trim
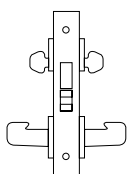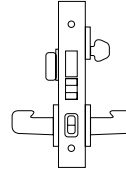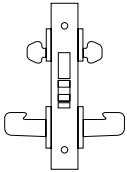- Operating outside emergency release with emergency key unlocks outside trim
- **ANSI F19**

70, 71, 72, 73 Electrical

**8270, 8271, 8272, 8273
7870, 7871, 7872, 7873**

- Guardbolt deadlocks latchbolt
- Key retracts latchbolt when trim is locked electrically
- Power off-unlocks outside trim (70)
- Power off-locks outside trim (71)
- Power off-unlocks inside and outside trim (72)
- Power off-locks inside and outside trim (73)
- 24DVC regulated or 24VAC rectified (must not exceed 26.2 volts)
- See Electrical Product Systems Manual for additional information

Inside cylinder only provided on 72 and 73 functions

Knob trim will rotate in only one direction, away from latchbolt, these functions only

*85 Office

8285

- **Freewheeling function only**
- Guardbolt deadlocks latchbolt
- Latchbolt retracted by either trim unless outside trim is locked by toggle in lock front
- Key outside retracts latchbolt when outside trim is locked
- **ANSI F04**

*86 Public Entrance

8286

- **Freewheeling function only**
- Guardbolt deadlocks latchbolt
- Latchbolt retracted by either trim unless outside lever is locked by key inside
- Key outside retracts latchbolt when outside trim is locked
- **ANSI F09**

✦*87 Closet

8287

- **Freewheeling function only**
- Guardbolt deadlocks latchbolt
- Latchbolt retracted by outside trim
- Key outside locks or unlocks outside trim
- No inside cylinder or trim

91 and 92 All Purpose

8291, 8292, 7892
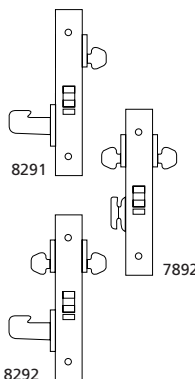
- Guardbolt deadlocks latchbolt
- Latchbolt retracted by key outside and trim inside
- Inside trim always operative
- Hold back operation is with inside key on 7892/8292 function, and outside key on 8291. Set latchbolt in retracted position by first rotating key, then depress lever (8200) or turn 126 T-turn (7800) to set latchbolt in the old-back position
- When latchbolt is in retracted position the lever remains depressed and turn remains rotated for indication of an unlocked door
- These functions are not UL listed

8291
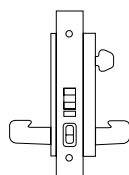
7892

8292

93 and 94 Dummy Trim

8293, 8294, 7893, 7894
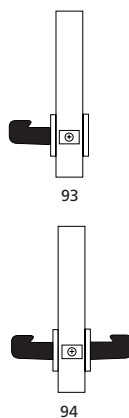
- Trim only used as door pull
- 93 function provides blank rose plate on outside of door
- Trim attached by plug in edge of door, one solid piece spindle, and two thru-bolts
- See template for door prep
- Not available with 1-prefix

93

94

* 8200 Available with Freewheeling Trim
‡ 7800 Available with Push/Pull Trim

If shaded, knob or lever rigid at all times

All strikes: Brass, bronze or stainless steel.
All locks are packed standard with a universal non-handed curved lip ANSI 4-7/8" (124mm) strike.
See chart below for part number and lip lengths.

Curved Lip Strike

Door Thickness	Part No.	Lip Length
1-3/8" - 1-1/2" (35mm) (38mm)	82-0109	1-1/8" (29mm)
1-5/8" - 1-3/4" (41mm) (44mm)	82-0110 (Std)	1-1/4" (32mm)
1-7/8" - 2" (48mm) (51mm)	82-0111	1-3/8" (35mm)
2-1/8" - 2-1/2" (54mm) (64mm)	82-0112	1-5/8" (41mm)
2-5/8" - 3" (67mm) (76mm)	82-0113	1-7/8" (48mm)
3-1/8" - 3-1/2" (79mm) (89mm)	82-0114	2-1/8" (54mm)
3-3/8" - 4" (86mm) (101mm)	82-0115	2-3/8" (61mm)
4-1/8" - 4-1/2" (105mm) (114mm)	82-0116	2-5/8" (67mm)
4-5/8" - 5" (117mm) (127mm)	82-0117	2-7/8" (73mm)

687 Open Back Strike
- **Strike handed by <u>active</u> leaf**

Door Thickness	Part No. RHRB	Part No. LHRB
1-3/4" (44mm)	82-0332	82-0333
2" (51mm)	82-0334	82-0335
2-1/4" (57mm)	82-0336	82-0337
2-1/2" (64mm)	82-0338	82-0339
2-3/4" (70mm)	82-0340	82-0341
3" (76mm)	82-0342	82-0343

- To order strikes separately, give strike part number and finish
- Strikes ordered separately are furnished with machine screws
- Order strike box 77-1141 separately

Outside Front Plate

1-1/4" (32mm)	1-1/16" (27mm)	Functions
82-0080	82-0235	15, 65
82-0081	82-0236	04, 06, 13, 16, 17, 31, 36, 37, 38
82-0081	–	86, 87
82-0082	82-0237	03, 20, 21, 22, 23
82-0083	82-0238	24, 25, 26, 35, 39, 66
82-0084	82-0239	40, 41, 50
82-0085	82-0240	05, 85
82-0086	82-0241	45
82-0087	82-0242	43
82-0088	82-0587	91, 92
82-0578	82-0588	70, 71, 72, 73
82-0578	–	78, 79
82-0579	–	76, 77

Curved Lip Strike (Standard)

11/16" (17mm)
4-7/8" (124mm)
2-3/4" (70mm)
3/32" (2mm) Thick
1-1/4" (32mm) Lip Length

687 Open Back Strike

1/8" (3mm) Thick
4-7/8" (124mm)
1-1/4" (32mm)
1-3/4" (45mm)

- Specify as part number when ordering with complete lockset
- Not available for deadbolt functions

Outside Front Plate

1-1/4" (32mm) or 1-1/16" (27mm)
8" (203mm)
7-1/4" (184mm)
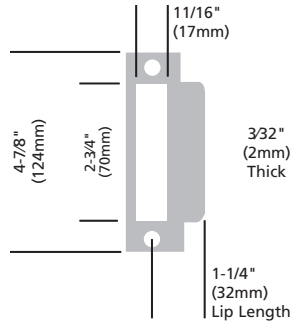
78-0034 Deadbolt Strike

11/16" (17mm)
1-1/32" (26mm)
1-1/2" (38mm)
4-7/8" (124mm)
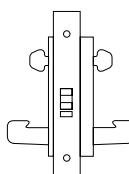3/32" (2mm) Thick
1-1/4" (32mm)
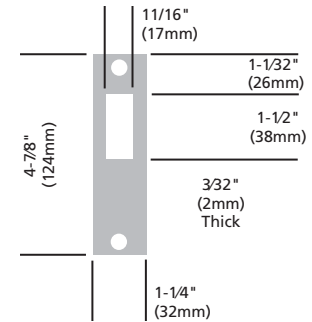
- Provided standard with deadlock functions 03, 20, 21, 22, 23

23- Prefix 82-0349 Flat Lip Strike

1-1/4" (32mm)
4-7/8" (124mm)
2-3/4" (70mm)
3/32" (2mm) Thick
1-1/8" (29mm) Lip Length
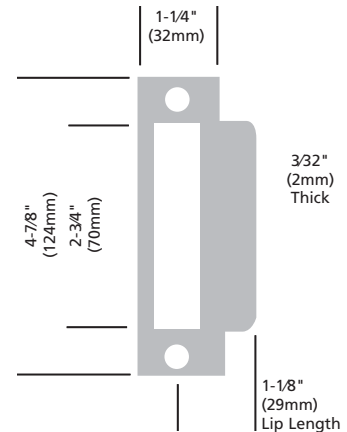
- For use on pairs of doors.

Note: 7/8" (22mm) lip also available on flat lip strike (82-0229)

77-1141 Wrought Strike Box
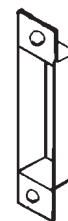
- For both curved and flat lip strikes
- Optional
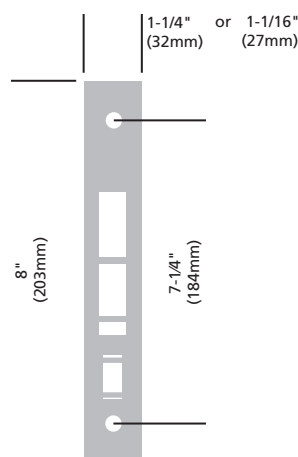
7800/8200 Mortise Locks
Electromechanical and Monitoring
49- Prefix Lock Status Indicators
50- Prefix Secured Indicator Rose

SARGENT

1-800-727-5477

www.sargentlock.com

Electrical Functions:

8270, 7870
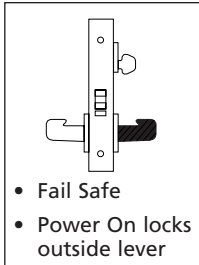
- Fail Safe
- Power On locks outside lever

8271, 7871
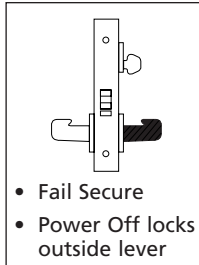
- Fail Secure
- Power Off locks outside lever

8272, 7872
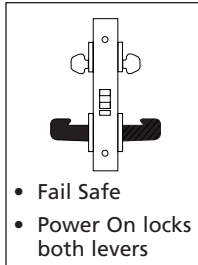
- Fail Safe
- Power On locks both levers

8273, 7873
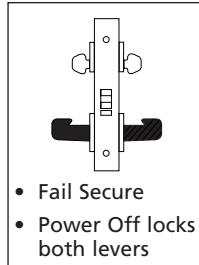
- Fail Secure
- Power Off locks both levers

Applications: Security and restricted access areas in schools, computer rooms, offices, banks, equipment rooms, laboratories, pharmaceuticals and hospitals. Also used with fire and alarm controls in buildings and stair tower doors.

- See Function Page 12 for full description of lock operation

Electrical Requirements:

Voltage: 24VDC Regulated, 24VAC full wave rectified, unfiltered max. 26.2V

Current: .25 Amps

Operating Temp.:
Max. 151°F (66°C), Min –31°F (-35°C)

Warning:

- **Do not** connect locks in a series circuit with higher voltage rated power supply
- **Do not** connect locks with a circuit sharing an additional electromagnetic device as the lock may be damaged
- Transient voltage must be suppressed at the source or before connecting with the lock
- Varistor rated at 35 volts (peak) may be used for transient voltage protection

SARGENT Power Supplies

- 3510 Power Supply, for up to a maximum of 7 locks – 24VDC, 1.8 Amp regulated and filtered. UL Listed Class II
- 3530 Power Supply, for up to a maximum of 8 locks – 24VDC, 2 Amp regulated and filtered. UL Listed
- 3560 Power Supply, for up to a maximum of 28 locks – 24VDC, 7.2 Amp regulated and filtered. UL Listed

Monitor Switch Prefixes for 8200 Mechanical Mortise Locks

8200 electromechanical mortise lever locks are available with internal switches for independently monitoring inside/outside lever rotation (RX-), latchbolt position (LX-) and deadbolt position (DX-).

- SPDT type C switches, rated 2 Amp. at 24 VDC
- RX- Request to Exit or Enter
– Two switches mounted internally in lockbody that provide independent monitoring of inside and outside lever rotation

– Available for the following function: 04, 70, 71, 72 or 73
– Not available for the following prefixes: 1-, 3P, 74- or DX-
– Not available for the following trims: LS or FE
- LX- Latchbolt Monitor
– Single switch mounted internally in lockbody that indicates latchbolt retraction

– Available for all non deadbolt functions: 04, 05, 06, 13, 15, 16, 17, 31, 36, 37, 38, 65, 85, 86, 87, 91, 92
– Not available with DX- or NY prefixes
- DX- Deadbolt Monitor
– Single switch mounted internally in lockbody that indicates deadbolt retraction
– Not available for the following prefixes: 3P-, 75-, RX-, or LX

Lock Status and Secured Rose Indicators

49- Prefix Visual Status Indicator

- Designed to work with the Classroom Security functions
- Red/White indicator plate standard, field replaceable OCC/VAC plate included
- Mounts on inside of door

185C

- 7800 Functions and roses available:
  — 37 Function: E, L and O roses
- 8200 Functions and roses available:
  — 37 Function: CR, L, LN and TR
  — 26, 38, 39, 40 and 41 Functions: LN
- As retrofit, order 185C x finish

49- Prefix Occupancy Indicator with Emergency Release

- Ideal for restrooms or conference rooms where easy determination of use needs to be made
- OCC/VAC indicator plate standard, field replaceable Red/White plate included

185P

- Mounts on outside of door
- Emergency coin operated release standard
- 7800 Functions and roses available:
  — 65 and 66 Functions: E, L and O roses
- As retrofit, order 185P x finish

50- Prefix Secured Indicator Rose

- Non-handed with lever and mounting posts field reversible
- VAC/OCC indicator plate standard, field replaceable Red/White plate included
- Mounts on outside of door
- Available for the following functions: 24, 25, 26, 37, 38, 39, 40, 41, 43, 45 & 50
- Patent pending design
- For retrofit, order 185S x suffix x finish:

Suffix	Door Thickness
-1	1-3/8" (35mm)
-2	1-3/4" (44mm)
-3	2" (51mm)
-4	2-1/4" (57mm)

130KB - Use with 8200 Rose Trim

- 1-1/2" (38mm) round brass, bronze or stainless steel plate

130W - Use with 7800 Rose Trim

- 1-1/2" (38mm) round brass, bronze or stainless steel plate

130KA - Use with E Rose

- 1-1/2" (38mm) square brass, bronze or stainless steel plate

130LB - Use with 8200 Rose Trim

- 40% larger than standard thumb turn
- 2" (51mm) round brass, bronze, or stainless steel plate
- Furnished with flat spindle

No. 677 Rabbeted Door Kits
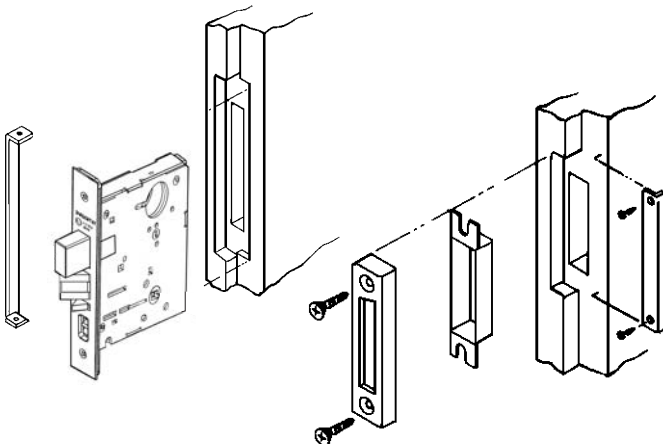
Kit adapts 7800 and 8200 locks for rabbeted doors. Kit No. 677 consists of rabbeted strip and strike. Kit furnished standard for 1-3⁄4" (44mm) to 2" (51mm) doors. Specify 2-677 when using 2-1⁄4" (57mm) thick doors. Finishes: 3, 4, 9, 10, 10B, 10BL, 20D, 26, 26D

126 T-Turn (7892 function only)

2-3/16" (56mm) Rose
2-3/8 (61mm) Turn

- Brass or bronze
- Finishes: 3, 4, 9, 10, 10B, 10BL, 20D, 26, 26D
- Surface mounted with three screws
- Order as "SSTT" trim with 7892 function

Emergency Key 14-0057

- Carbon steel
- For bathroom/privacy function only

184W Emergency Release

- 1-1/2" (38mm) round brass, bronze or stainless steel plate

184KB Emergency Release

- 1-1/2" (38mm) round brass, bronze or stainless steel plate

184KA Emergency Release

- 1-1/2" (38mm) square brass, bronze or stainless steel plate

40 Series Type

- Cylinder body: solid brass
- Cap: Brass, bronze or stainless steel

1-5/16" (33mm)

15/32" (12mm)

1/8" (3mm)
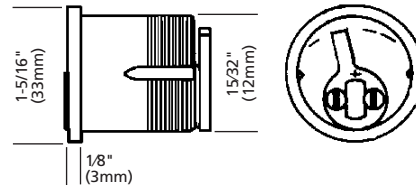
7850/8250 Function Hotel Cylinder

- When door is locked by deadbolt, only emergency key is able to unlock
- Must request emergency key separately (14-0036 x keying info)

10- Prefix Signature Series

- The system offers the building owner full control over duplication of keys. Highly pick resistant cylinders
- 10-63 Prefix- Signature cylinder in removable core
- 10- UL Prefix- Signature cylinder that meets UL437 requirements for security

78- Prefix Exposed Barrel

- Standard for use only with SARGENT Escutcheon Trims KE3, KE4, LE3, LE4
- See function table for cam required
- Not available in 50 function
- Plug finishes: 4, 15 (similar to 26 finish)

VA- Prefix SARGENT V-10

- Patented high security cylinder protects against unauthorized key duplication
- Master keying capabilities up to 160,000 changes
- UL Listed
- VC Prefix- V-10 interchangeable
- VS Prefix- V-10 standard unassembled
- VSVC Prefix- V-10 interchangeable unassembled

124 Series Mortise Cylinder Turn Lever

- Turn lever: Brass, bronze or aluminum
- Cap: Brass, bronze or stainless steel
- Must be ordered separately

82- Prefix KESO

- The system offers the building owner full control over duplication of keys
- Highly pick resistant cylinders
- Expanded levels of masterkeying
- 83- Prefix- Keso removable core
- 84- Prefix- Keso construction core
- For existing systems only

35- Prefix Adjustable Front

- No cylinder ring or rosette is required
- Spring action front adjust 1/16" (3mm) to assure proper mounting of cylinder
- Available with three different cap heights. Can be used with most trim except escutcheon designs

11- Prefix XC Key System

- Patented system works with existing SARGENT keyway adding increased security
- 11-73 Prefix SFIC

For complete cylinder information, see Cylinders & Components, Signature, Keso, XC or V-10 catalogs

51- Prefix Old Style Removable Core

- Available for **existing systems only** Permanent Removable Cores
- Control key used to remove core, must request control key separately

60- or 70- Prefix Plastic Construction Core

- For doors that do not require key locking during the construction period
- Operate with coin or flat screw driver
- For use with removable (60- Prefix) or interchangeable (70- Prefix) core

63- Prefix Removable Core

- Allows immediate removal of the core. Virtually unlimited key changes
- For disposable core see 60- prefix
- 64- Prefix- removable construction core
- Control key used to remove core, must request control key separately

7300B Interchangeable Core
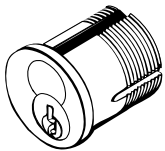
- Small Format Interchangeable Core
- SARGENT Interchangeable Core cylinders and Master Key Systems are available for increased security through quick changing of keying. It is unnecessary to remove a cylinder from a door to rekey the opening
- SARGENT 7300B Interchangeable Cores are available in SARGENT 4A and 4B keyways as well as the following standard competitor keyways: A, B, C, D, E, F, G, H, J, K, L, M
- For disposable core see 70- prefix
- 65-73 Prefix- 6 Pin Small Format Interchangeable Cores-uncombinated
- 65-73-7P Prefix- 7 Pin Small Format Interchangeable Cores-uncombinated
- 70- Prefix- Small Format Interchangeable disposable core
- 72- Prefix- Small Format Interchangeable construction core
- 73- Prefix- 6 Pin Small Format Interchangeable core, SARGENT 4A, 4B only for new systems
- 73-7P Prefix- 7 Pin Small Format Interchangeable core, SARGENT 4A, 4B only for new systems
- Control key used to remove core, must request control key separately

21- Prefix Lost Ball Construction System

- The SARGENT construction keying system protects the building owner by providing temporary masterkeying during the construction period

1KB Rosette with 8200 Rose Trim

- Used with mortise cylinders and No. 90 blocking rings when cylinders project from door
- Furnished standard with 8200 rose design mortise trim
- Brass, bronze or stainless steel
- 1-1/2" (38mm) diameter, includes compression spring
- Projection from door:
  1KB-1 5/16" (8mm)
  1KB-2 7/16" (11mm)
  1KB-3 9/16" (14mm)
- Finishes: 3, 4, 10, 10B, 10BL, 20D, 26, 26D, 32, 32D

No. 97 Rosette with 7800 Rose Trim

- Standard for cylinders ordered separately from hardware
- Standard for 7800 knob trim
- Brass, bronze or stainless steel
- 1-11/16" diameter (43mm), 9/32" (7mm) projection, includes compression spring
- Finishes: 3, 4, 10, 10B, 10BL, 20D, 26, 26D, 32, 32D

No. 90 Blocking Ring

- Used with 1KB rosettes as spacer when mortise cylinder projects from face of door
- Brass, bronze or stainless steel
- 1-3/8" (35mm) diameter; 1/16" (1.6mm) to 3/8" (9mm) projection in 1/16" (1.6mm) increments. Specify size when ordering.
- Finishes: 3, 4, 10, 10B, 10BL, 20D, 26, 26D, 32, 32D

81-0495 Cylinder Retaining Cap

- Required for double cylinder functions on FE, KS and LS Eschutcheon *only*
- Steel or stainless steel
- 1-15/32" (37mm) diameter
- 9/16" (14mm) projection
- Finishes: 3, 4, 9, 10, 10B, 10BL, 20D, 26, 26D, 32, 32D

For complete cylinder information, see Cylinders & Components, Signature, Keso, XC or V-10 catalogs.

7800/8200 Mortise Locks
Cylinder Rosette
and Blocking Ring Requirements

SARGENT
1-800-727-5477
www.sargentlock.com

Escutcheon Trim

Design	KE 1/2 or LE 1/2			KW1 or LW1			KE 3/4 or LE 3/4 (Exposed Barrel) 78-40 Cylinder						KS or LS						WT					
Cylinder Application	Single Cylinder			Double Cylinder			Single Cylinder			Double Cylinder			Single Cylinder			Double Cylinder			Single Cylinder			Double Cylinder		
Door Thickness	1-3/8 (35)	1-3/4 (44)	2-1/4 (57)	1-3/8 (35)	1-3/4 (44)	2-1/4 (57)	1-3/8 (35)	1-3/4 (44)	2-1/4 (57)	1-3/8 (35)	1-3/4 (44)	2-1/4 (57)	1-3/8 (35)	1-3/4 (44)	2-1/4 (57)	1-3/8 (35)	1-3/4 (44)	2-1/4 (57)	1-3/8 (35)	1-3/4 (44)	2-1/4 (57)	1-3/8 (35)	1-3/4 (44)	2-1/4 (57)
41 Size Cylinder 5 or 6 Pin	B H	C	—	B H J	B H	—	NA	C	C	NA	NA	C	NA	C	—	NA	—	—	C	C	—	J	C	—
42 Size Cylinder 5, 6, or 7 Pin	B K	B H	C	B J K	B K	C	NA	—	C	NA	NA	—	NA	C	C	NA	M	—	H	C	—	H J	H	—
43 Size Cylinder 5, 6, or 7 Pin	B L	B J	C	B J L	B L	B H	NA	—	C	NA	NA	—	NA	—	C	NA	—	M	K	G	C	J K	K	C

Rose Trim

Cylinder Application	695 L, LN (8200)						676 E, L, O (7800)					
	Single Cylinder			Double Cylinder			Single Cylinder			Double Cylinder		
Door Thickness	1-3/8 (35)	1-3/4 (44)	2-1/4 (57)	1-3/8 (35)	1-3/4 (44)	2-1/4 (57)	1-3/8 (35)	1-3/4 (44)	2-1/4 (57)	1-3/8 (35)	1-3/4 (44)	2-1/4 (57)
41 Size Cylinder 5 or 6 Pin	E H	D	—	F H J	E H	—	A H	A	—	A H J	A H	—
42 Size Cylinder 5, 6, or 7 Pin	F K	D G	D	F J K	F K	D	A K	A G	A	A J K	A K	A
43 Size Cylinder 5, 6, or 7 Pin	F L	E J	D	F J L	F L	E H	A L	A J	A	A J L	A L	A H

NOTE
41 size cylinders include: Conventional, Signature, Signature UL, XC
42 size cylinders include: 50 function cylinders, SARGENT removable core, KESO removable core, ASSA V-10 removable core, Signature removable core
43 size cylinder include: Small Format Interchangeable Core

How To Find Your Rosette and Blocking Ring Requirements when ordered separately

Rosettes and ring requirements are coded by letters A through M in the table to the right and depicted in chart above.

For example: A #41 cylinder for a 1-3/8" (35mm) door using KE1 escutcheon trim for a single cylinder application would require (B) a No. 97-02 spring and (H) Part # 90-1/8" Blocking Ring.

A. Part # 97 Rosette (includes spring)
B. Part # 97-02 Spring only
C. No Spring, rosette or blocking ring required
D. 1KB-1 Rosette (includes spring)
E. 1KB-2 Rosette (includes spring)
F. 1KB-3 Rosette (includes spring)

G. Part # 90-1/16" (2mm) Blocking Ring
H. Part # 90-1/8" (3mm) Blocking Ring
J. Part # 90-3/16" (5mm) Blocking Ring
K. Part # 90-1/4" (6mm) Blocking Ring
L. Part # 90-3/8" (10mm) Blocking Ring
M. Part # 81-0495 Cylinder Retaining Cap

Cylinder Cams For Mortise Locks

SARGENT Conventional Cylinders
• Standard

SARGENT Removable Core Cylinders
• 60- Prefix

13-0664 Standard SARGENT cam except 50 function. Outside cam for 16 & 92 functions

13-0665 92 & 16 function inside cam

13-2045 50 Hotel function

13-0542 Standard SARGENT cam except 50 function. Outside cam for 16 & 92 functions

13-0806 92 & 16 function inside cam

13-1320 50 Hotel function

For cylinders other than conventional and removable core, see Cylinders & Components catalog for correct cam information

Prefix Designation And Description

*1▲	1-1/16" (27mm) wide front for 1-3/8" (35mm) doors (93 + 94 function only available as a special) (not available in KS, LS trim)
*3	Stainless steel hubs (2) for institutional specification
*• 10▲	Signature System (6"(152mm) door thickness max.)
*• 10UL▲	Signature Systems meeting UL437 (Security Grade 1) (3-1/4" (82mm) door thickness max)
+11▲	SARGENT XC Key System
*• 21▲	SARGENT Construction Key System (lost ball) standard on all new systems (3-1/4" (82mm) door thickness max.)
*• 22▲	SARGENT Construction Key System (split key). For pre-established split key systems only (2" (51mm) door thickness max.)
*• 23	Flat Lip 4-7/8" (124mm) ANSI Strike
*31	For doors 1-7/8" (48mm) to 6" (152mm) thick or panel one side with 40 series cylinder-see cylinder prefix limitations. Must specify: A: Total thickness of door with no panel x lock centered on door. Panel location (inside or outside of door) Or B: Total thickness of door only x panel thickness (with adhesive). Panel location (inside or outside of door)
• 35	Adjustable front cylinder not available with removable core cylinders (1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm) door thickness only)
* 36 **	6 Lobe head security screws (Torx type) (not available on LE3 or LE4 escutcheon's small set screw)
*• 37 **	Spanner head security screw (not available on LE3 or LE4 escutcheon's small set screw)
49	Visual & Occupancy Indicators
50	Secured Indictator rose for doors 1-5/8" (41mm) to 2-1/4" (57mm) thick
• 51	Old style removable core cylinders (existing systems only) (3-1/4" (82mm) door thickness max.)
52	Old style construction cores cylinders (existing systems only) (3-1/4" (82mm) door thickness max.)
*• 60	Disposable construction core (3-1/4" (82mm) door thickness max.)
*• 63	SARGENT removable core cylinder (3-1/4" (82mm) door thickness max.) Control key request separately
*• 64	SARGENT removable construction core cylinder (3-1/4" (82mm) door thickness max.) Control key request separately
• 65-73▲	Small format Interchangeable Cores – 6 pin uncombinated (2-1/2" (63mm) door thickness max.)
65-73P▲	Small format Interchangeable Cores – 7 pin uncombinated (2-1/2" (63mm) door thickness max.)
68	Lever outside x knob inside
• 69	Lever inside x knob outside
• 70	Small format Interchangeable Core, plastic disposable core provided (2-1/2" (63mm) door thickness max.)
• 72	Small format Interchangeable Core with construction core provided (2-1/2" (63mm) door thickness max.) Control key request separately
• 73	Small format 6 Pin Interchangeable Core SARGENT 4A, 4B keyway only. (2-1/2" (63mm) door thickness max.) Control key request separately
73-7P▲	Small format 7 Pin Interchangeable Core SARGENT 4A, 4B keyway only. (2-1/2" (63mm) door thickness max.) Control key request separately
*• 74	Lead lined case, and/or rose. Rose specify inside, outside or both. Not available for escutcheons
75	Inside and outside trim. Milled levers or knurled knobs (7800 "B" and "C" knobs only)
* 76	Inside trim only. Milled levers or knurled knobs (7800 "B" and "C" knobs only)
* 77	Outside trim only. Milled levers or knurled knobs (7800 "B" and "C" knobs only)
*• 82	Keso security cylinder (For existing systems only) (3-1/4" (82mm) door thickness max.)
• 83▲	Keso security system removable core cylinders (For existing systems only) (3-1/4" (82mm) door thickness max.)
84▲	Keso security removable construction core cylinder (For existing systems only) (3-1/4" (82mm) door thickness max.)
AV	Anti-vandal Pull trim
• DX	Deadbolt Monitoring (Not available with 3P, 75, LX, or RX prefixes or any non-deadbolt function)
LB	Larger size ADA turn
LX	Latchbolt monitor switch, available for all non-deadbolt functions
• RX	Request to exit (04, 70, 71, 72, 73, functions only). Monitors the activation of the inside and outside lever independently
SC▲	Lock furnished in Schlage "C" Keyway Number 41 cylinder only, 0 bitted (2" (51mm) door thickness max.)
SE▲	Lock furnished in Schlage "E" Keyway (Specify), Number 41 cylinder only, 0 bitted (2" (51mm) door thickness max.)
SG	SARGuard - An antimicrobial clear powder coat
*• VA▲	SARGENT V-10 standard cylinder (3-3/4" (95mm) door thickness max.)
*• VC▲	SARGENT V-10 Interchangeable core (2-1/4" (57mm) door thickness max.)
• VS▲	SARGENT V-10 cylinder unassembled (3-3/4" (95mm) door thickness max.)
VCVS▲	SARGENT V-10 Interchangeable core cylinder unassembled (2-1/4" (57mm) door thickness max.)

* Prefixes available with Freewheeling Trim (Consult factory if thicker than 1-3/4 (44mm) thick door)
** See screw chart on back page
• Prefixes available with Push/Pull trim
▲ Prefixes not available with standard 50 function lockout cylinder
+ Prefix not available with 10-, 22-, 60-, 64-, SC- or SE- prefixes

NOTES: **All interchangeable core and removable core cylinders do not meet Security Grade 1 requirements.**

All door thickness limitations are for locks centered in the door only

Split finishes available (Order: outside finish/inside finish) If inside and outside trim designs differ please specify (Order: outside trim/inside trim)

6 Lobe & Spanner Bit packs

Part Number	Descriptions
82-3855	6 Lobe Bit Pack 6 bits (sizes- T8, T9, T10, T15, T20, T25, T27) 9/32" Driver
82-3856	Spanner Bit Pack 5 bits (sizes- 6, 8, 10, 12, 14) 1/4" Driver

Packaging

8205 x LNL	approx. 6.1 lbs. (2.7kg)/box	6 boxes/case
8205 x WTL	approx. 7.2 lbs. (3.1kg)/box	6 boxes/case

How to Order

Specify	Note	Example
Quantity	Numbered Ordered	**1 Qty**
Prefix	Additional Feature	1 Qty. **21-**
Prefix	Additional Feature	1 Qty. 21-**75-**
Lock Function	See Functions	1 Qty. 21-75-**8205**
Trim Design	Rose x Lever	1 Qty. 21-75-8205 **LNL**
Finish	See Finishes	1 Qty. 21-75-8205 LNL **26D**
Additional Information	Item/Heading Number, Door Number, Keyset Information	1 Qty. 21-75-8205 LNL 26D **x Item 01 x DRL201 x Keyset AA3**

Finishes

US Finish	Description	ANSI/BHMA
*• 3	Polished brass, clear coated	605
*• 4	Satin brass, clear coated	606
*• 9	Polished bronze, clear coated	611
*• 10	Satin bronze, clear coated	612
*• 10B	Oxidized bronze, oil rubbed	613
* 10BL	Oxidized satin, bronze, clear coated	—
* 20D	Statuary dark bronze, clear coated	—
* 26	Polished chrome	625
* 26D	Satin chrome	626
• 32	Polished stainless steel	629
• 32D	Satin stainless steel	630

Door Handing
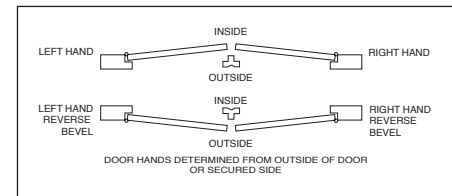
* Finishes available with 8200 Coastal Series™ Trim and 8200 Freewheeling Trim

• Finishes available with 7800 Push/Pull Trim

36- or 37- Prefix Security Screw Chart

Trim Designs	Functions																																				
	3	4	5	6	13	15	16	17	20	21	22	23	24	25	26	31	35	36	37	38	39	40	41	43	45	50	65	66	70	71	72	73	85	86	87	91	92	93	94
E, L, LN, O Roses	5	6	5	5	5	5	5	5	4	5	4	5	6	6	5	5	5	5	5	5	5	5	5	6	6	6	7	7	–	–	–	–	–	–	–	5	5	4	4
PT - Push/Pull	–	6	–	–	–	5	5	5	–	–	–	–	6	–	5	–	–	–	5	5	5	5	5	6	6	6	7	7	–	–	–	–	–	–	–	–	–	–	–
LE/KE (1&3) & LW1/KW1	6	7	7	7	7	7	7	7	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	–	–	–	7	7	6	6
LE/KE (2&4)	4	5	5	5	5	5	–	–	4	4	–	–	5	5	–	5	5	5	5	–	–	–	5	5	–	5	5	5	5	–	–	–	–	–	–	5	5	4	4
FE - Freewheeling	–	7	–	–	–	–	7	–	–	–	–	–	7	7	7	7	7	–	7	7	7	7	7	–	–	–	7	7	7	–	–	–	7	7	7	–	–	–	–
LS/KS	8	9	9	9	9	9	9	9	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	–	–	–	9	9	8	8
WT	12	13	13	13	9	13	13	13	8	12	12	13	13	13	13	13	9	9	13	13	13	13	13	13	13	13	13	13	13	13	13	13	–	–	–	13	13	12	12

Quantities are per lock x function x trim design.

Please note: Two small set screws on LE/KE (3 & 4) that hold inside escutcheon scalp onto casting and the screw on the edge of door for 93 & 94 functions are not available in security type screws, but are available and listed above.
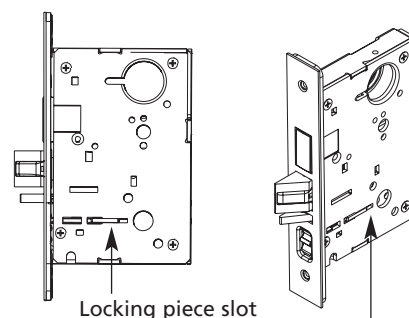
–Trim design is not available with this function.

2.1 HEAVY DUTY MORTISE LOCKSETS

A. Heavy duty mortise locks shall be 7800/8200 Series as manufactured by SARGENT Manufacturing Company, New Haven, CT.

B. Locks shall meet or exceed the requirements of ANSI/BHMA A156.13 Series 1000, Operational Grade 1, and Security Grade 1 with all standard trims.

C. Locks shall be easily re-handed without opening the lock body.

D. Locks shall comply with UL10C and UBC 7-2 positive pressure requirements.

E. Locks required for fire doors shall be listed by Underwriters Laboratories for ratings of A label (3 hours) and less, for doors up to 4'0" (1.2m) x 8'0" (2.4m) and pairs of doors 8'0" (2.4m) x 8'0" (2.4m).

F. Construction:

   1. Lock functions shall be manufactured in a single-sized case formed from 12 gauge steel minimum.

   2. Lock cases shall be closed on all sides and back.

   3. Locks shall have field adjustable, beveled, armored front, with a .125 inch (3mm) thickness minimum.

   4. Locks shall have a one piece, 3/4" inch (19mm) throw anti-friction stainless steel latchbolt.

   5. Deadbolts, where specified, shall be full one inch (25mm) throw made of stainless steel and have two hardened steel roller inserts.

   6. Where required by the Federal Bureau of Prisons, locks can be furnished optionally with stainless steel hubs.

G. Locks shall have a 2-3/4 inch (70mm) backset, standard.

H. Strikes shall be non-handed with a curved lip.

I. To ensure proper alignment, trim, knobs or levers, shall be thru-bolted and fully interchangeable between rose and escutcheon.

J. Locks shall have brass 6-pin cylinder, standard.

K. Locks shall have a five year limited warranty.

Changing Lock Hand (standard) U.S. Patent No. 5,678,870

To change hand of <u>locking piece</u>
1. Turn lockbody to side NOT marked with red locking piece.
2. Insert blade type screwdriver into locking piece slot.
3. Push locking piece toward front of lock body and rotate 180° until RED shows.
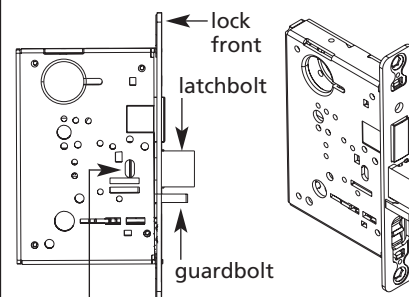4. RED indicates locked (outside) side.

Locking piece slot

Red color indicates locked side of door or hold back side (91 and 92 Functions)

To change hand of <u>latchbolt and guardbolt:</u>
1. Insert blade type screwdriver into oval slot behind latchbolt.
2. Push latchbolt out until back of bolt clears lockbody front.
3. Rotate latchbolt 180° until the latchbolt drops back into the lockbody.

lock front
latchbolt
guardbolt

Oval slot; insert screwdriver here

ESSEX™
THE TOTAL OPENINGS PEOPLE

THE TOTAL OPENINGS PEOPLE