Yale®

HEAVY-DUTY GRADE 1 KEY-IN-KNOB LOCKSET

5400 SERIES

CATALOG

An ASSA ABLOY Group brand

ASSA ABLOY

TIME-TESTED QUALITY

INTRODUCTION

When demanding the highest standard of product performance in even the toughest industrial applications, look no further than the Yale® 5400 Series Heavy-Duty Grade 1 cylindrical locksets.

Yale's high-quality key-in-knob locksets have withstood the test of time by offering the finest cylindrical lock mechanisms available. Even today, 5400 Series locksets are assembled with superbly engineered components and constructed with high-grade materials for long-lasting reliability.

Manufactured for the industrial, commercial and institutional markets, 5400 Series locksets feature security, dependability and versatility in attractive designs and finishes that fulfill all decorative requirements and blend with any architectural décor.

UNDERWRITERS LABORATORIES (U.L.)

Yale 5400 Series locksets have been listed by Underwriters Laboratories, Inc. for use on fire doors having a rating up to and including 3 hours. These locksets are available with 1/2" (13mm), 5/8" (16mm), or 3/4" (19mm) throw latchbolts for use in all classes of locations when applied to hollow-metal, metal-clad (Kalamein) composite (with steel and other coverings) and wood-type fire doors.

In general these locksets with 1/2" (25mm) throw latchbolts are intended for use on single-swing doors not exceeding 4 feet in width and 8 feet in height. Locksets with 1/2" (25mm), 5/8" (16mm), or 3/4" (19mm) throw latchbolt are intended for use on the active leaf of a pair of doors not exceeding 8 feet (2.44m) in either dimension.

It is advisable to check local code authorities, the "Building Material Directory" published by UL, and the door manufacturer for specific hardware requirements. Underwriters Laboratories does not list locks with rabbeted fronts or hold-back feature on the latchbolt.

AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)

ANSI A115 Specifications for Door and Frame Preparation
5400 Series Locksets conform to ANSI specification A115.2, which covers hollow metal doors and frames for cylindrical locks.

ANSI A156.2 Standards for Cylindrical Locksets and Latches
5400 Series Locksets conform to ANSI specification A156.2, Series 4000, Grade 1.

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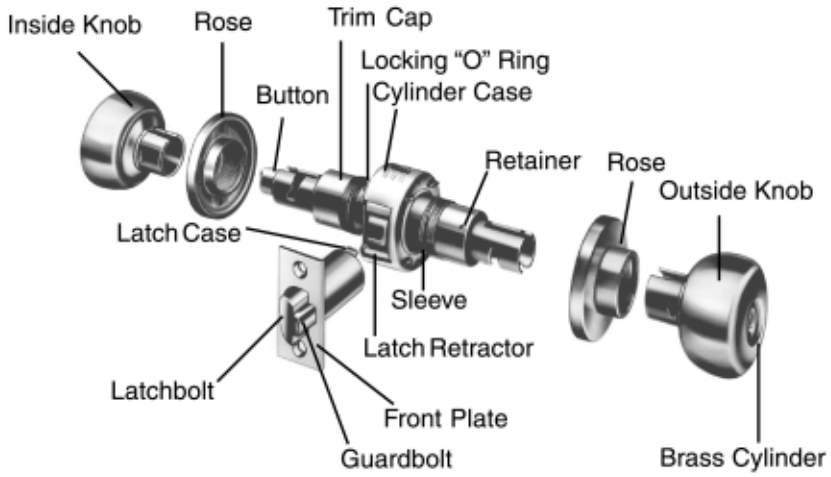
FINISHES

ANSI Code	Finish
605	Bright Brass, clear coated
606	Satin Brass, clear coated
611	Bright Bronze, clear coated
612	Satin Bronze, clear coated
613	Satin Bronze, oxidized and oil rubbed
625	Bright Chrome Plated
626	Satin Chrome Plated
629	Bright Stainless Steel
630	Satin Stainless Steel

Split Finishes: When locksets with different trim finishes on each side are required, specify outside finish first and suffix by inside trim. Example, LF5401 x 605 x 625. The front and strike are finished to match inside trim unless otherwise specified.

CONSTRUCTION FEATURES



QUALITY CONSTRUCTION

5400 Lockset

- Constructed of heavy-gauge cold-rolled steel
- All parts zinc plated and dichromated for maximum corrosion resistance
- Recommended for use under normal climactic and environmental conditions

CASE

2-1/16" (52mm) diameter. All functions furnished in one standard size lock case.

LATCHBOLT

1/2" (13mm) throw, deadlocking or plain, supplied standard. Optional 5/8" (16mm) and 3/4" (19mm) throw, deadlocking or plain, available to order. All latch units are interchangeable.

INSTALLATION

Uniform, regardless of function or trim style. The latch unit requires a 1" (25mm) hole in edge of door and the lockset requires 2-1/8" (54mm) hole through the door.

REVERSIBILITY

For either right or left-hand doors swinging in or out.

DOOR THICKNESS

Adjustable for doors 1-3/8" (35mm) to 2" (51mm). Can be supplied by special order for doors over 2" (51mm) up to 2-1/4" (57mm) by using special roses. These roses are limited to certain designs and must be specified on the order if other than standard 1-3/8" (35mm) to 2" (51mm) thickness.

CONSTRUCTION FEATURES

GUARDBOLT

Deadlocks the latchbolt of locking functions to resist attempts to slip the latchbolt with a thin piece of material like a plastic credit card.

STRIKE

1-1/4" (32mm) curved lip with wrought box supplied standard. Optional 1" (25mm), 1-1/2" (38mm), 1-3/4" (44mm) and 2" (51mm) curved lips with wrought boxes available to order.

KNOBS

Selection of 3 knob designs fulfills most decorative requirements. All knobs are forged and reinforced or solid.

FRONT PLATE

Wrought brass, bronze or stainless steel. Standard bevel 1/8" in 2". Flat or rabbeted to order.

Note: Latch front must be flush with door edge.

SCREWS FOR FRONT

Phillips flat head No. 8-8-32 x 3/4" (19mm) combo screw, for both wood and metal doors.

LEAD-SHIELDED LOCKSETS

These are intended to reduce emission of harmful rays through the door. Two 1/8" thick lead backup washers under each rose are furnished. Lead plug inserts are supplied in the knob spindles where lockset function permits. For maximum protection, plain knob operation is recommended on at least one side and preferably on both sides. To order, specify "Lead Shielded."

BACKSET

2-3/4" (70mm) standard.
3-3/4" (95mm), extension links for 5" (127mm) , 6" (152mm), 7" (178mm), 8" (203mm), 18" (457mm), 19" (483mm), and up to 42" (1.06m) backset are available.

SCREWS FOR STRIKES

Screws for Strikes: Phillips flat head No. 8-8-32 x 3/4" (19mm) [except, 497 and 497B which require Phillips flat head No. 12-12-24 x 1" (25mm) combo screw for both wood and metal frames].

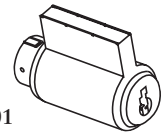
CYLINDERS

CYLINDER OPTIONS

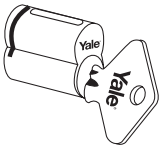
The following selection guide indicates the correct key-in-lever cylinder for each locking segment.

Lockset Series: 5400		Types of Cylinder Mechanisms							
		Conventional		Patented Keyway		Security		High Security	
Cylinder Types	**Fixed Core**	**6-pin**	**7-pin**	**6-pin**	**7-pin**	**6-pin**	**7-pin**	**6-pin**	**7-pin**
	Key-In-Knob	1801	1801A	K400	K400	5801	5801A	N/A	N/A
	Interchangeable Core								
	LFIC	1210	1220	K800	K800	5210	5220	N/A	N/A
	SFIC	N/A	N/A	K600	K600	N/A	N/A	N/A	N/A

Refer to Yale® KeyMark® and/or Cylinders and Keys Catalog sections for all details and how to order examples.



1801



1210

Yale KeyMark® PATENTED KEYWAY CYLINDERS

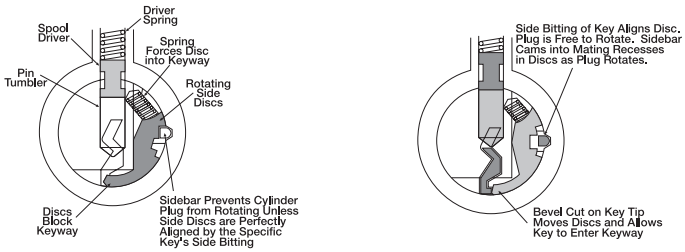
For those applications requiring patented key control, Yale's KeyMark® line of patented keyway cylinders provides the ultimate protection against unauthorized key duplication. *Yale* KeyMark's utility-patented Security Leg® keyway features increased resistance against picking and impressioning and can easily retrofit into existing systems. For further details and availability, refer to the separate *Yale KeyMark* catalog.

SECURITY CYLINDERS

The patented Yale® Security Cylinder (Patent No. 4638651) contains two independent locking mechanisms. The first is a traditional 6 or 7-pin tumbler mechanism with spool drivers for greatly increased picking resistance.

The second is an innovative 5-tumbler rotating disc mechanism with sidebar engagement. The rotating discs are spring loaded and block the bottom of the keyway.

Illustration



COMPETITORS' INTERCHANGEABLE CORE CYLINDERS

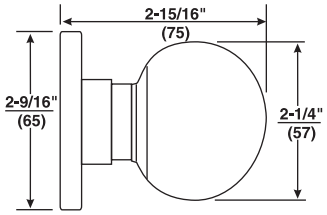
Interchangeable Core System	Prefix	Ordering Example
Best®*	B (i.e. B-CA)	B-CA5407 x 626

*Available in Carolina (CA) design only.

KNOB DESIGNS

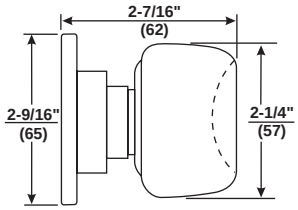
CAROLINA CA

CA Knob: Heavy cold forged, reinforced
CO Rose: Heavy cold forged, reinforced
Material: Brass, Bronze, Stainless Steel



BRANDYWINE BR

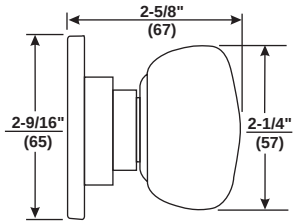
BR Knob: Heavy cold forged, reinforced
CO Rose: Heavy cold forged, reinforced
Material: Brass, Bronze, Stainless Steel



KNOB DESIGNS

LITCHFIELD LF

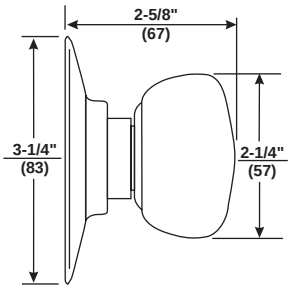
LF Knob: Heavy cold forged, reinforced
CO Rose: Heavy cold forged, reinforced
Material: Brass, Bronze, Stainless Steel



OPTIONAL MAYFAIR ROSE*

MF Rose: Heavy cold forged, reinforced
Note: See design chart on page 15 for complete details.

*Available with all knob designs. Litchfield knob shown.

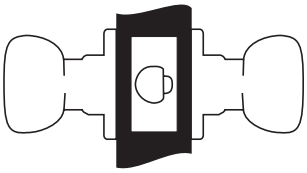


Dimensions are shown in inches (millimeters).

LOCKSET FUNCTIONS

5401
F75

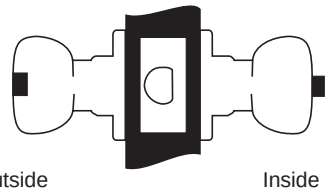
Passage or Closet Latch
- For doors that do not require locking.
- Either knob operates latchbolt at all times.



Outside Inside

5402
F76

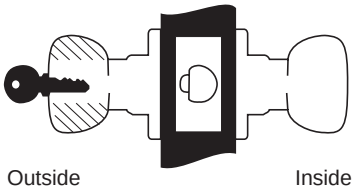
Privacy Bedroom or Bath Lock
- For lavatory or other privacy doors.
- Either knob operates latchbolt unless outside knob is locked by push-button inside.
- Button automatically released when inside knob is turned or door is closed.
- A coin inserted and turned in emergency slot will unlock door from outside.
- Inside knob always active.



Outside Inside

5405
F86

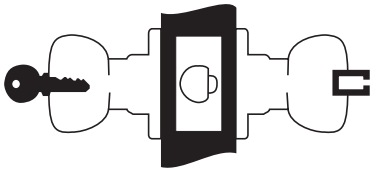
Storeroom or Closet Lock
- For use on storeroom, utility, exit doors.
- Deadlocking latchbolt.
- Latchbolt operated by knob inside, key in outside knob.
- Outside knob always rigid.
- Inside knob always active.



Outside Inside

5406
F92

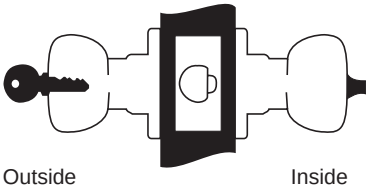
Service Station Lock
- Deadlocking latchbolt.
- Either knob operates latchbolt.
- Push-button locks outside knob.
- Push-button automatically releases when inside knob is turned, door is closed, or key is rotated in outside knob (except when slotted push-button is rotated 90° clockwise to retain outside knob in lock position).
- Lock opened by key in outside knob, inside knob always active.



Outside Inside

5407
F109

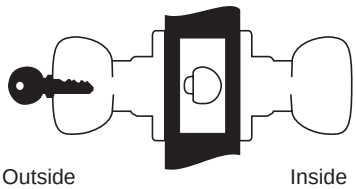
Entrance, Storeroom or Corridor Lock
- For entrance, general home or office doors.
- Deadlocking latchbolt.
- Either knob operates latchbolt (except when outside knob is locked from inside).
- Pushing turn button in inside knob locks outside knob (automatically releases when inside knob is turned or key is rotated in locked outside knob).
- Outside knob may be retained in locked position by pushing and rotating turn button 90° clockwise to a horizontal position; not released until turn button is manually returned to the vertical position.
- Latchbolt is operated by key in outside knob or by rotating inside knob.
- Inside knob always active.



Outside Inside

5408
F84

Classroom Lock
- For classroom or utility room doors.
- Deadlocking latchbolt.
- Either knob operates latchbolt (except when outside knob is locked by key).
- Inside knob is always active.
- Key releases outside knob.

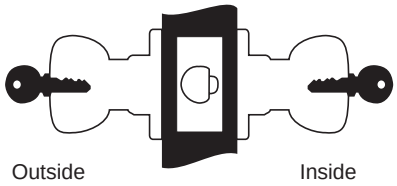


Outside Inside

LOCKSET FUNCTIONS

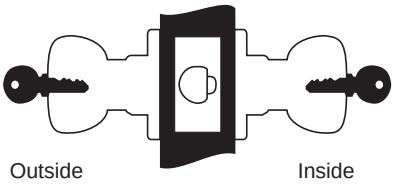
5417
F88

Apartment, Exit or Public Toilet Lock
- For office or apartment building entrance doors or lavatory doors.
- Deadlocking latchbolt.
- Either knob operates latchbolt (except when outside knob is locked from inside).
- Key in outside knob operates latchbolt.
- Inside knob always active.



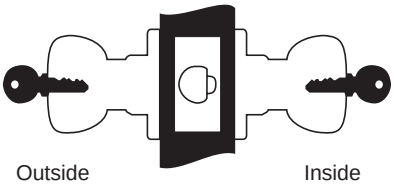
5419
F91

Store Door Lock
- For store entrance or communicating doors.
- Deadlocking latchbolt.
- Either knob operates latchbolt (except when both knobs are locked simultaneously by key in either knob).



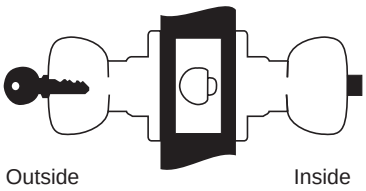
5421
F80

Communicating Lock
- For communicating or store entrance doors.
- Deadlocking latchbolt.
- Either knob operates latchbolt (except when key in either knob locks or unlocks the knob independently of the other).
- Should be used only on offices or rooms with multiple entry.



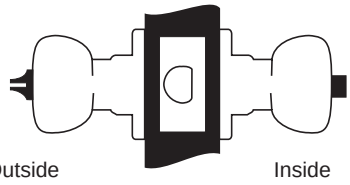
5422
F90

Dormitory Lock
- Deadlocking latchbolt.
- Either knob operates latchbolt (except when outside knob is locked by inside push-button or key in outside knob).
- Inside knob always active.
- When locked by button, the button automatically releases when inside knob is turned or door is closed.
- When locked by key, the automatic release is made inoperative and must be manually unlocked by key.



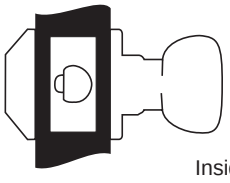
5425

Privacy Lock
- For lavatory or other privacy doors.
- Either knob operates latchbolt (except when outside knob is locked by inside push-button).
- Button automatically releases by turning inside knob or closing door.
- Door can be unlocked, when necessary, by operating outside turn button.
- No emergency key required.
- Inside knob always active.



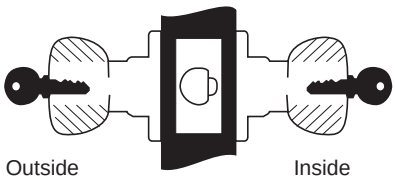
5428

Exit Latch
- For twin communicating or exit door where one-side operation is required.
- For use when space is limited between door and switch panel.
- Deadlocking latchbolt.
- One knob operation.
- Blank rose.
- Should be used where rooms have more than one entrance.



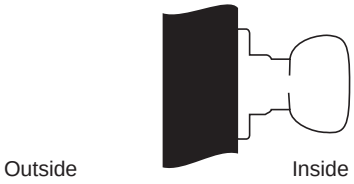
5430
F87

Utility, Asylum or Institutional Lock
- Latchbolt operated by key in knob from either side.
- Deadlocking latchbolt.
- Both knobs always rigid.



455

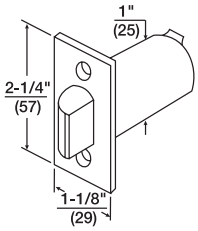
Dummy Trim
- For non-operational knobs used for decorative trim.



LATCHBOLTS

PLAIN LATCHBOLTS

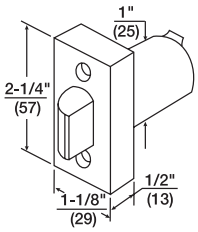
List No. 693 Supplied standard with all 5400 Series locksets without locking function. Standard latchbolt has a 2-1/4" (57mm) x 1-1/8" (29mm) beveled front with a 2-3/4" (70mm) backset and a 1/2" (13mm) bolt throw. Optional latchbolts with a greater backset/ throw available to special order.



List Number	Front*	Backset	Throw
693	Beveled	2-3/4"	1/2"
3693	Beveled	3-3/4"	1/2"
478	Beveled	2-3/4"	5/8"
3478	Beveled	3-3/4"	5/8"
478A	Beveled	2-3/4"	3/4"
3478	Beveled	3-3/4"	3/4"

PLAIN RABBETED LATCHBOLT

Optional plain latchbolt for 5400 Series locksets when installed on rabbeted doors and frames. Latchbolt has 2-1/4" (57mm) x 1-1/8" (29mm) x 1/2" (13mm) rabbet front with a 2-3/4" (70mm) backset and a 1/2" (13mm) bolt throw.



List Number	Front*	Backset	Throw
693-1/2	1/2" Rabbeted	2-3/4"	1/2"

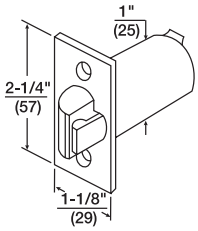
Note: When 5400 Series locksets are required for vertical latching, specify downset application on the order.

***Latchbolt front must be flush with the edge of the door. To order a latchbolt with a flat front, prefix the latchbolt list number with the letter "F", i.e. LF5407 x F494.**

LATCHBOLTS

DEADLOCKING LATCHBOLTS

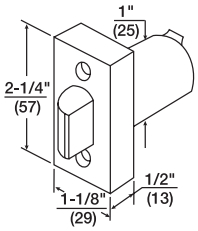
Deadlocking latchbolt List No. 694 supplied standard with all 5400 Series locksets with locking function. List No. 694 deadlocking latchbolt has a 2-1/4" (57mm) x 1-1/8" (29mm) beveled front with a 2-3/4" (70mm) backset and a 1/2" (13mm) bolt throw. Optional latchbolts with a greater backset/ throw available to special order.



List Number	Front*	Backset	Throw
694	Beveled	2-3/4"	1/2"
3694	Beveled	3-3/4"	1/2"
480	Beveled	2-3/4"	5/8"
3480	Beveled	3-3/4"	5/8"
480A	Beveled	2-3/4"	3/4"
3480	Beveled	3-3/4"	3/4"

DEADLOCKING RABBETED LATCHBOLT

Optional deadlocking latchbolt for 5400 Series locksets when installed on rabbeted doors and frames. Latchbolt has a 2-1/4" (57mm) x 1-1/8" (29mm) x 1/2" (13mm) rabbet front with a 2-3/4" (70mm) backset and a 1/2" (13mm) bolt throw.



List Number	Front*	Backset	Throw
694-1/2	1/2" Rabbeted	2-3/4"	1/2"

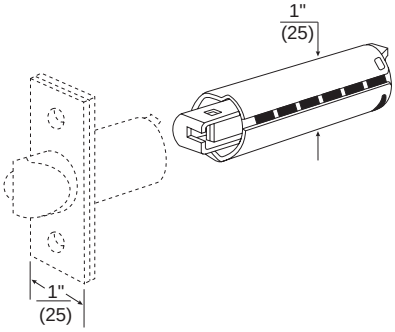
Note: When 5400 Series locksets are required for vertical latching, specify downset application on the order.

***Latchbolt front must be flush with the edge of the door. To order a latchbolt with a flat front, prefix the latchbolt list number with the letter "F", i.e. LF5407 x F494.**

LATCHBOLTS

BACKSET EXTENSION LINKS

All 5400 Series locksets are supplied with standard latchbolts of 2-3/4" (70mm) backset; optional latchbolts with a 3-3/4" (95mm) backset are available to special order. Extension links are also available for attachment to 2-3/4" (70mm) or 3-3/4" (95mm) backset latchbolts to extend the backset to the desired length.



Desired Backset	Latchbolt Backset	Order Extension List No.
5" (127mm)	2-3/4" (70mm)	481DL
6" (152mm)	2-3/4" (70mm)	481
7" (178mm)	2-3/4" (70mm)	482
8" (203mm)	2-3/4" (70mm)	482
18" (46cm)	2-3/4" (70mm)	484
19" (48cm)	3-3/4" (95mm)	484

Attaching Screws
For all latchbolts except rabbeted
#8-8-32 x 3/4" (19mm) Phillips flat head combination wood and machine screws
Brass - P/N 81-2022-0416*
Bronze - P/N 81-2032-0416*

For Rabbeted Latchbolts
Wood doors - #8 x 1-1/4" (32mm) Phillips flat head wood screws
Brass - P/N 81-1022-0424*
Bronze - P/N 81-1032-0424*

Hollow Metal Doors
#8 - 32 x 1" (25mm) Phillips flat head machine screw
Brass - P/N 81-0022-0420*
Bronze - P/N 81-0032-0420*

*Specify finish required.

Note: When 5400 Series locksets are required for vertical latching, specify downset applications on the order. Latchbolt front must be flush with the edge of the door. To order a latchbolt with a flat front, prefix the latchbolt list number with the letter "F", i.e. LF5507 x F593, LF5507 x F594M.

Other extension links up to 42" (1.06m) backset are available to special order.

INSTRUCTION PLATES

These instruction plates are available at no charge when required and ordered with locksets. They are not regularly packed with locksets.

Plates are 2" (51mm) x 1-1/8" (29mm) with satin letters in natural aluminum on black anodized background.

PLATE N-1821

Use with:
5402/5502 (Privacy)
5503 (Patio)
5406/5506 (Service Station)
5425/5525 (Privacy)

TO LOCK
PRESS THE BUTTON
TO UNLOCK
TURN THE KNOB
Yale® N 1821

PLATE N-1822

Use with:
5520 (Hotel/Motel)

OUTSIDE KNOB
ALWAYS LOCKED
PRESS BUTTON TO
SHUT OUT ALL KEYS
Yale® N 1822

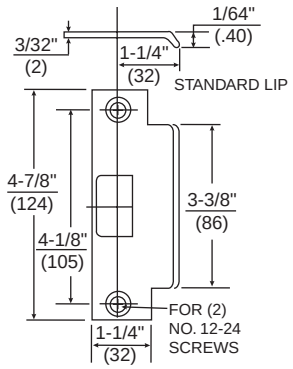
PLATE N-1823

Use with:
5422/5522 (Dormitory)

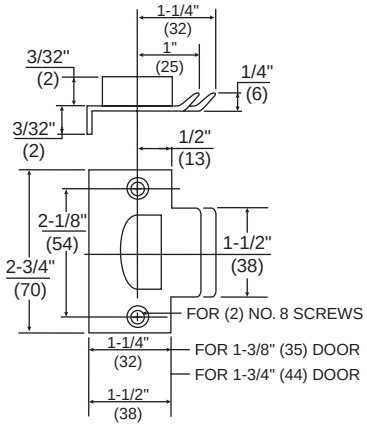
TO LOCK PRESS BUTTON TO
UNLOCK TURN KNOB
WHEN LEAVING ROOM LOCK
DOOR WITH KEY
FROM OUTSIDE
Yale® N 1823

STRIKES

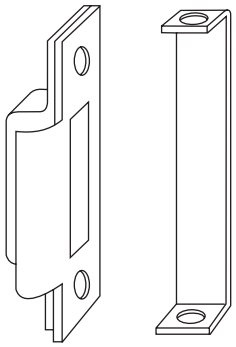
Yale® 5400 locksets are supplied with a standard strike or a variety of optional strikes. All strikes are located on the same vertical and horizontal center lines as the latchbolt. Some strikes are available in special lip lengths to accommodate varying thickness of doors and frames. To determine the proper length of the lip, measure from the center line of the strike to the edge of the jamb, accounting for any interfering trim (i.e. wood molding) and then add 1/4" (6mm) for curved lip. **All strikes are reversible.** Strikes are fabricated of either brass, bronze or stainless steel, depending on the lockset trim finish. **When ordering strikes separately, specify the finish required.**



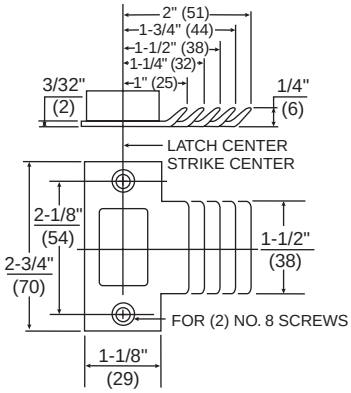
List No. 497 Standard Strike
Strike for door and frames with ANSI A115.2 preparations.
Available to special order.



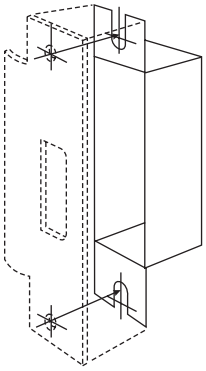
List No.431 Optional Protected Back Strike



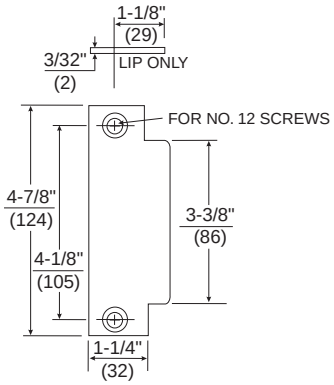
List No. 495-1/2 Standard Rabbeted Strike
1/2" x 1-1/4" (32mm) lip supplied standard with all 5400/5500 locksets when ordered with rabbeted latchbolts.



List No. 495 Optional Strike



List No. 202 Optional Wrought Strike Box for ANSI Strike



List No. 497B Optional ANSI Blank Filler Plate
Installed in frame with standard ANSI A115.2 preparation to cover the preparation when a lockset is not installed in the door.

Attaching screws (not regularly supplied when strike ordered separately).
For List Nos. 495, 495M, 495-1/2" (13mm) and 431 strikes - #8-8-32 x 3/4" (19mm) Phillips flat head combination wood and machine screw P/N-81-201209416
For List No. 497 Strikes and 497B Plate - #12-12-24 x 1" (25mm) Phillips flat head combination wood and machine screw P/N-81-2012-0620.

Note: When ordering strike plates or attaching screws individually, specify the finish required; i.e. 497 202, 612; #81-2012-0620 x 612.

KNOB AND ROSE COMPONENTS

5400 Knob*
For all knob designs except as noted. Prefix number with design symbol, i.e. CA450
450 Plain
450F Plain (Rigid)
450P For Button
450K For Cylinder (6-pin)
*457K For Cylinder (7-pin)
450KF For Cylinder (Fixed 6-pin)
457KF For Cylinder (Fixed-7 pin)
***Available in BR and CA designs only.**

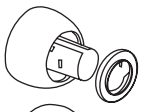
5400 Roses*
For all rose designs. Prefix number with design symbol, i.e. C0451
451 Outside; for 1-3/8" to 2" doors.
452 Outside; for doors over 2" to 2-1/4" (for CO only).
453 inside; for 1-3/8" to 2" doors.
454 inside; for doors over 2" to 2-1/4".

Blank Rose (Brass or Bronze only)
458 Outside (5428)
For 1-3/8" to 1-3/4" Doors Other: 370A Pair of rose extension units used with 2-9/16" diameter roses for lockset application on 1-1/4" to 1-3/8" doors

Blank Rose (Brass or Bronze only)
558 Outside (5528)
For 1-3/8" to 1-3/4" Doors

Removable Core Knobs
CA/BR450R For Removable Core (6-pin)
CA/BR450RF For Removable Core Cylinder (Fixed 6-pin)
BR450T For Removable Core Cylinder (7-pin)
BR450TF For Removable Core Cylinder (Fixed 7-pin)

Knob Caps*
For all knob designs except Carolina (CA).
#14-5401-0028



For Carolina (CA)
#14-5404-2615

Trim Caps*
For all knob designs except CA, for 5400 trim.
#14-5401 -2001 Brass
#14-5401-3001 Bronze
#14-5401-7000 Stainless Steel for CA design 14-5401-14/3614/7614

Locking "O" Ring
For the inside sleeve of all locksets.
#99-9999-3665.

***Specify finish required, i.e. #14-54013001 x 612.**

HOW TO ORDER/SPECIFICATION

From this outline select the List Number for the Yale® 5400 Series locksets you require.

Description	Design	List No.	Hand	Latch	Strike	Cylinder	Door Thickness	Supplementary Specifications	Keying Level	Finish
See page 2.	See Below.	See pages 8-9.	RH, LH, RHR, LHR	See page 10-12.	See page 13.	See page 5.	See page 3.	Lead-lined flat front specific keying. Special rose and spacer plates. 7-pin cylinder. Extension links, strike lip, length, etc. (Specify by list number where available, see index for page references.)	Highest Keying Level: "Level One" - KA or KD "Level Two" - MK "Level Three" - GM "Level Four" - GGM	See page 2.

PACKAGING

Yale 5400 Series locksets are completely assembled at the factory. Each box has a strike, paper template, combination wood and machine screws and easy-to-follow instructions. Cylinder functions are supplied with two keys and furnished right hand unless otherwise specified. Each case contains spanner wrenches for use in installing locksets. There are ten unit cartons to a master carton or case.

DESIGN

Design	Design Symbol	Knob	Rose
Brandyfair	BF	BR	MF
Brandywine	BR	BR	CO
Carolina	CA	CA	CO
Carofair	CF	CA	MF
Litchfield	LF	LF	CO
Mayfair	MF	LF	MF

SAMPLE SPECIFICATION

All locksets shall be 5400 Series Grade 1 Key-in-Knob cylindrical locksets as manufactured by Yale Commercial Locks and Hardware.

Lockset mechanisms are to be constructed of heavy-gauge cold-rolled steel, zinc dichromated plated to protect against rust and corrosion. Locksets shall be adjustable to fit doors between 1-3/8" (35mm) to 2" (51mm) thick.

Locksets shall be available either with lock and trim made entirely of stainless steel (except cylinders) or lockset mechanism is constructed of stainless steel as listed above, knobs are steel zinc plated with dichromated liners and shanks, roses are brass or bronze supplied with stainless steel liners.
Locksets shall be reversible for either right hand or left hand doors and be easily installed with out the use of any special tools. They shall be installed in a 2-1/8" face bore and a 1" hole in the edge of the door. Knobs and roses shall be heavy cold forged reinforced.

Outside knob on keyed locksets shall be removable only when the designated key is in the cylinder.

Locksets shall have the capability of accepting 6 or 7-pin standard component cylinder, interchangeable core and security cylinders to provide expansion capacity for large masterkey systems.

Latchbolts shall be stainless steel and have a standard 1/2" throw; 5/8" and 3/4" throw are available as required.

Locksets shall carry a 1-year mechanical warranty.

Locksets shall comply with the following certification:
UL up to and including 3 hours fire rating
ANSI A156.2 series 4000 Grade 1
ANSI A115.2 preparation

online literature and templates

For the latest information on Yale Commercial Lock and Hardware products, visit our website at www.yalelocks.com.

Click on the "Literature" button to find:

- Catalogs
- Parts manuals
- Templates
- Specifications
- Installation instructions

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Yale-Corbin Canada Ltd.

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Tel: 1-800-461-3007 • *Fax:* 1-800-461-8989 • www.yalecorbin.on.ca

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