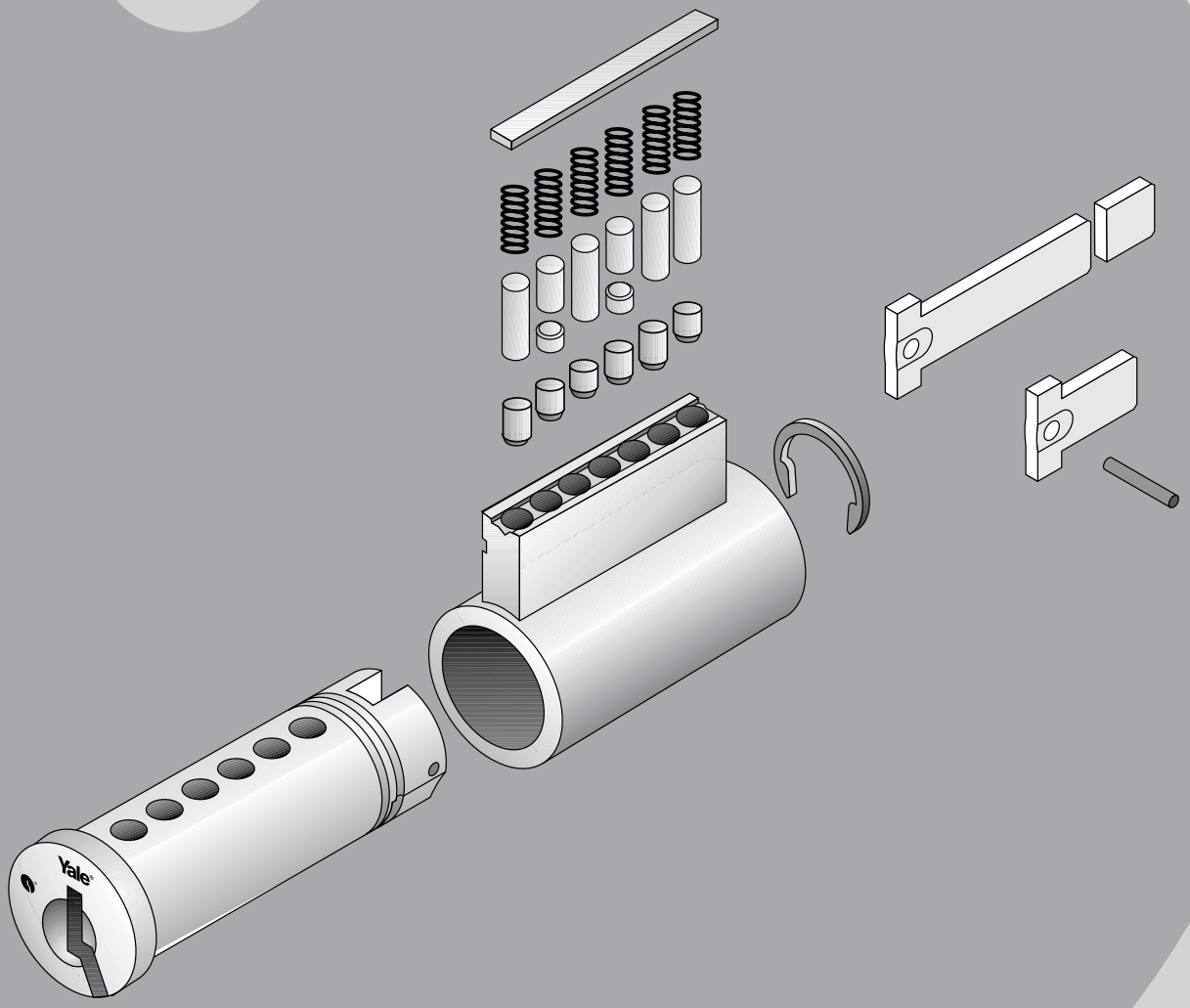

Yale® KeyMark® Service Manual

Protected Keyway Cylinder

An ASSA ABLOY Group brand

ASSA ABLOY

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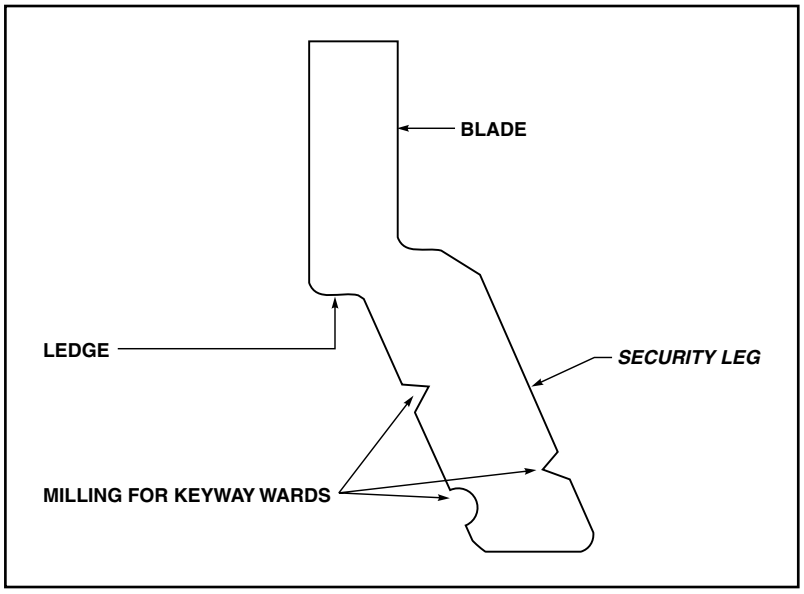
protected keyway

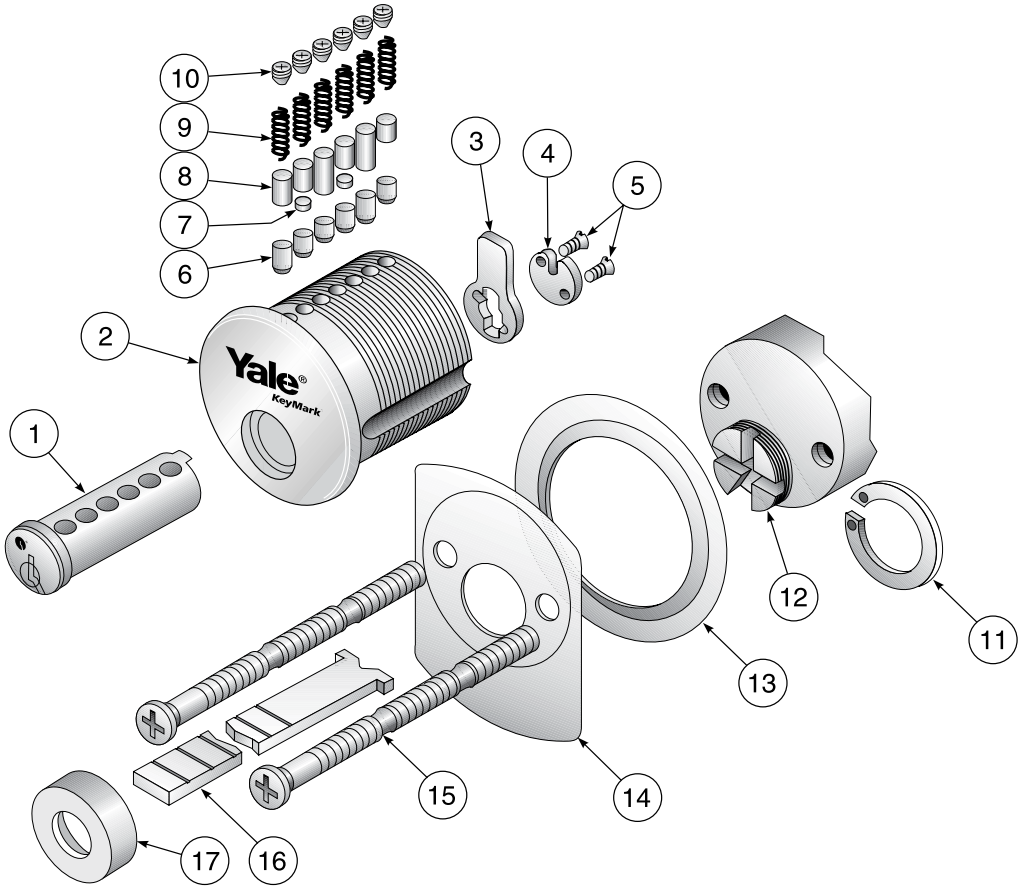
The *Security Leg*

The *Yale KeyMark* keyway has three distinct components: an upper portion or blade, a middle ledge, and a unique, lower angled portion or leg which exits the plug at an angle. This *Security Leg* keyway offers these advantages:

1. Keyway differentiation by angle;
2. Increased pick resistance;
3. Prevents other manufacturers' or other angle users' keys from entering the cylinder;
4. A unique and strong key with true key control;
5. A key blank of added thickness for extra strength and durability;
6. Prevents duplication of keys on standard key machines.



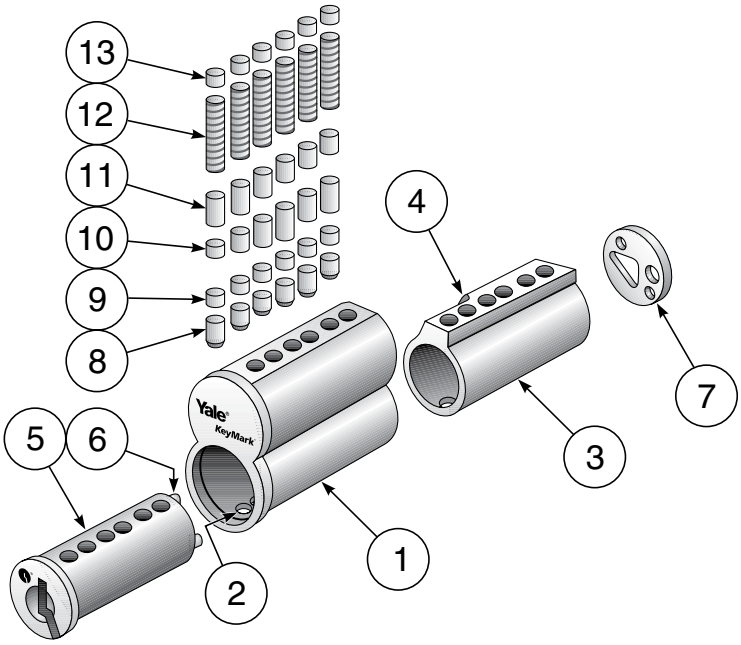
mortise/rim cylinders



Item	Description	Qty.	Mortise Model No.	Rim Model No.	Remarks
1	Mortise Plug-.511"	1	K150	NA	Length, keyway and finish required
2	Shell	1	K151	K351	Finish required
3	Cam	1	KC1	NA	KC1 standard, refer to page 7 for options
4	Cam Washer	1	KP1	NA	
5	Cam Screw	2	KP2	NA	
6	Bottom Pins	.	.	.	Refer to page 9 for options
7	Top Pins (Master)	.	.	.	Refer to page 9 for options
8	Top Pins (Driver)	.	.	.	Refer to page 9 for options
9	Tumbler Springs	6 or 7	K730	K730	
10	Set Screws	6 or 7	K736	K736	
11	Plug Retainer	1	NA	K739	
12	Rim Plug-.511" Plug Diameter	1	NA	K350	Finish & keyway required
13	Collar	1	NA	KP4	Finish required
14	Mounting Plate	1	NA	Yale® Part	34-0010-1015-059
15	Mounting Screws	2	NA	*Yale* Part	34-2311-8738-048
16	Tailpiece (Break-off)	1	NA	KT1	Includes tailpiece retainer
17	Tailpiece Retainer	1	NA	.	Included with tailpiece

** See remarks.*

small format interchangeable core

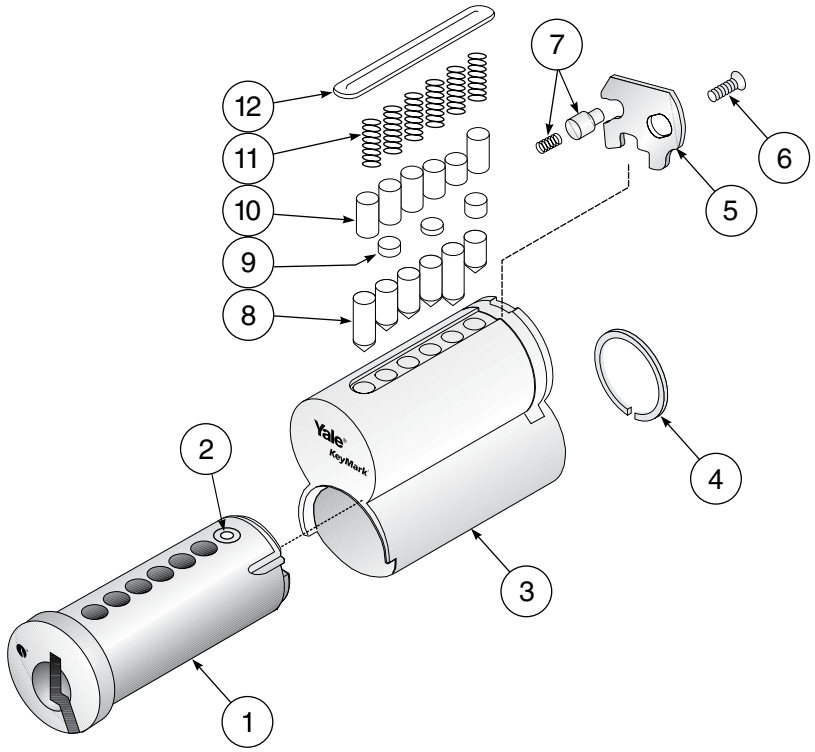


ITEM	Description	Qty.	Catalog No.	Remarks
1	Shell	1	**	Not available separately
2	Pin Ejector Holes	6 or 7	*	For location information only
3	Control Sleeve	1	**	Not available separately
4	Control Lug	1	**	Not available separately
5	Plug - .434" Plug Diameter	1	**	Not available separately
6	Rivet Posts	*	**	Not available separately
7	Key Stop Back Plate	1	**	Not available separately
8	Bottom Pins	*	*	Refer to page 9 for options
9	Top Pins (Master)	*	*	Refer to page 9 for options
10	Top Pins (Build-up)	*	*	Refer to page 9 for options
11	Top Pins (Driver)	*	*	Refer to page 9 for options
12	Tumbler Springs	6 or 7	K730	
13	Pin Chamber Caps	6 or 7	K731	

** See remarks.*

***Parts included in K600, not available ordered separately.*

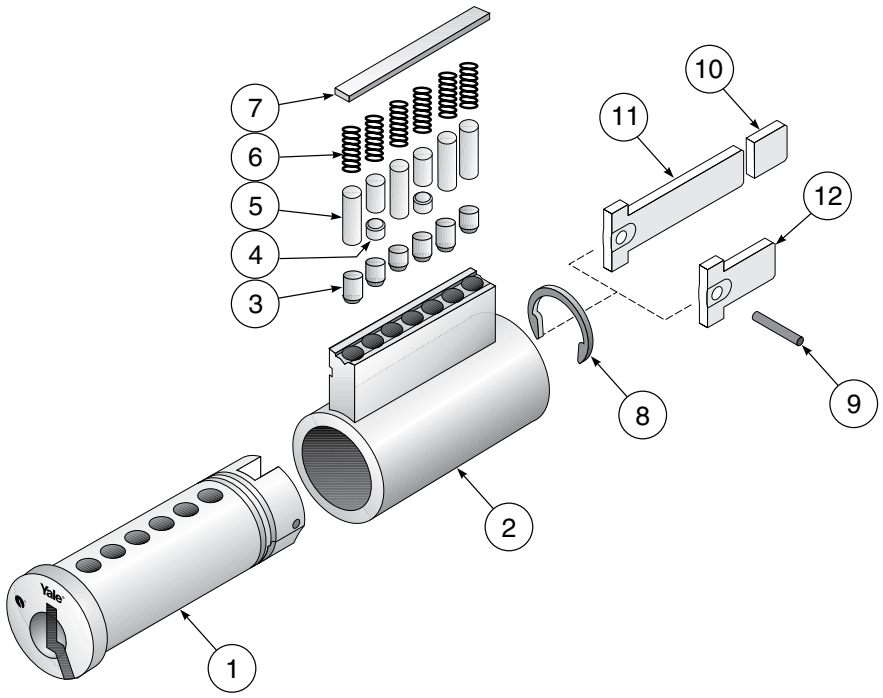
large format interchangeable core



Item	Description	Qty.	Catalog No.	Remarks
1	Plug - .511" Plug Diameter	1	K850	No. of pins, keyway and finish required
2	Control Pin and Spring	1	*	Staked in place
3	Shell	1	K851	No. of pins and finish required Includes items 5, 6 and 7
4	Plug Retainer	1	K740	
5	Control Lug	1	*	Not available separately
6	Control Lug Retainer Screw	1	*	Not available separately
7	Control Lug Guide Pin and Spring	1	*	Not available separately
8	Bottom Pins	*	*	Refer to page 9 for options
9	Top Pins (Master)	*	*	Refer to page 9 for options
10	Top Pins (Driver)	*	*	Refer to page 9 for options
11	Tumbler Springs	6 or 7	K730	
12	Spring Cover, 6-pin	1	K732	
12	Spring Cover, 7-pin	1	K733	

** See remarks.*

key-in-knob/lever cylinders



Item	Description	Qty.	Key-In-Knob Model No.	Key-in-Lever Model No.
1	Plug - .511" Plug	1	K450	K450
2	Shell	1	K451	K451
3	Bottom Pins	.	.	.
4	Top Pins (Master)	.	.	.
5	Top Pins (Driver)	.	.	.
6	Tumbler Springs	6 or 7	K730	K730
7	Spring Cover, 6-pin	1	K734	K734
7	Spring Cover, 7-pin	1	K735	K735
8	Plug Retainer	1	K741	K741
9	Roll Pin	1	NA	Yale® Part
10	Tailpiece	1	NA	KT2
11	Tailpiece	1	NA	KT7
12	Tailpiece	1	NA	KT3

Note: Tailpiece length varies by function and application.

** See remarks.*

Auxiliary Cylinders (Not Illustrated)

The items in the chart at right are specific to auxiliary cylinders. Item numbers 2 through 8 above are also included.

Description	Qty.	Model No.	Remarks
Plug	1	K251	Used with K200
Tailpiece	1	KT4	Used with K200
Tailpiece	1	KT6	Used with K290 only
Cylinder Collar	1	*Yale* Part	14-3511-1013-048
Lazy Cam	1	*Yale* Part	14-3511-6102-082
D-Ring	1	*Yale* Part	14-3511-1014-048

Note: Tailpiece length varies by function and application.

parts breakdown

Cylinder Parts			
Number	**Description**	**Used With**	**Remarks**
K730	Tumbler Springs	All types	
K731	Pin Chamber Caps	K600	SFIC
K732	Spring Cover, 6-pin	K800	LFIC
K733	Spring Cover, 7-pin	K800	LFIC
K734	Spring Cover, 6-pin	K200/K400	Aux./KIK/KIL
K735	Spring Cover, 7-pin	K200/K400	Aux./KIK/KIL
K736	Set Screws	K100/K300	Mortise/Rim
K739	Plug Retainer	K300	Rim
K740	Plug Retainer	K800	LFIC
K741	Plug Retainer	K200/K400	Aux./KIK/KIL

Tailpieces Length Varies by Function and Application		
Number	**Used With**	**Remarks**
KT1	K300/K840	Rim/LFIC Rim
KT2	K402	6-pin KIL
KT3	K404	KIL
KT4	K200	Auxiliary
KT5	K490	Schlage® KIL Kit
KT8	K202	6-Pin Interconnected Lock

Plugs Length, Keyway and Finish Required		
Number	**Used With**	**Remarks**
K150	K100	Mortise
K250	K200	Auxiliary
K350	K300	Rim
K450	K400	KIK/KIL
K850	K800	LFIC

Cams	
Number	**Yale Reference**
KC1	2160
KC2	2130
KC3	1161/*Schlage* Straight
KC4	1160
KC5	1161 (AR)
KC6	1161G (Key Switch)
KC7	*Schlage* Cloverleaf
KC8	Corbin Russwin Cloverleaf (A01)
KC9	Sargent® Straight
KC10	Yale® Affinity®

Shells Length and Finish Required Where Applicable		
Number	**Used With**	**Remarks**
K151	K100	Mortise
K351	K300	Rim
K451	K200/K400	Aux./KIK/KIL

Cam Accessories	
Number	**Description**
KP1	Cam Washer
KP2	Cam Screws

Lubrication

Yale® KeyMark® cylinders are lubricated from the factory with a Teflon® lubrication. Cylinders should be lubricated periodically depending upon environmental conditions and usage. LAB Lube is the approved lubricant.

Caution: It is not recommended to lubricate cylinders with oil or to mix lubricants.

pin specifications

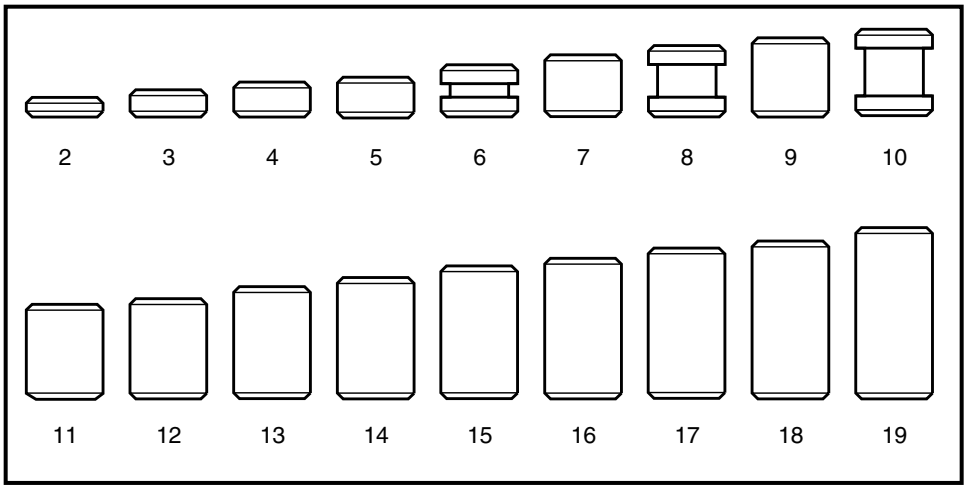
Yale® KeyMark® cylinders use selected top and bottom pins that are spool type for added security. While other manufacturers' pin kits can be used with Yale KeyMark cylinders, the strict tolerances of pins and the added security from the spool pins are good reasons to use original Yale KeyMark pins. Also, use of non-factory original pins can void the warranty.

To minimize the possibility of decoding the cylinder combination by reading the color of the pins, never use colored replacement pins.

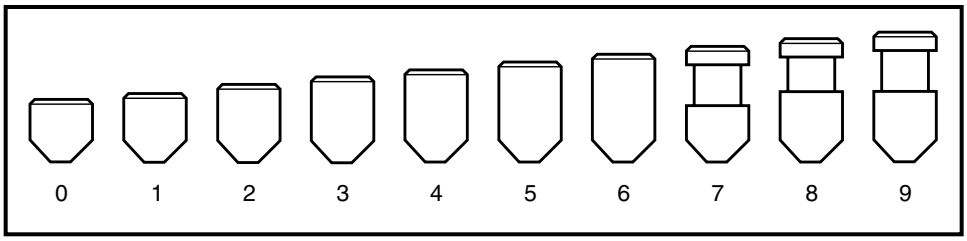
Bottom pins are made of high-quality nickel silver. This distributes wear evenly between the key and the pins.

Top, build-up and master pins are made of brass.

- Pin increment is .0125"
- Pin diameter is .1085"
- Bottom pin tip flat is .015"
- Bottom pin crown is 45° x .008"; Top pin crown is 30° x .008"
- Total stack height is:
  .3975" for small format interchangeable core cylinders (23)
  .2375" for non-small format interchangeable core cylinders (19)



Master, Build-up and Top Pins



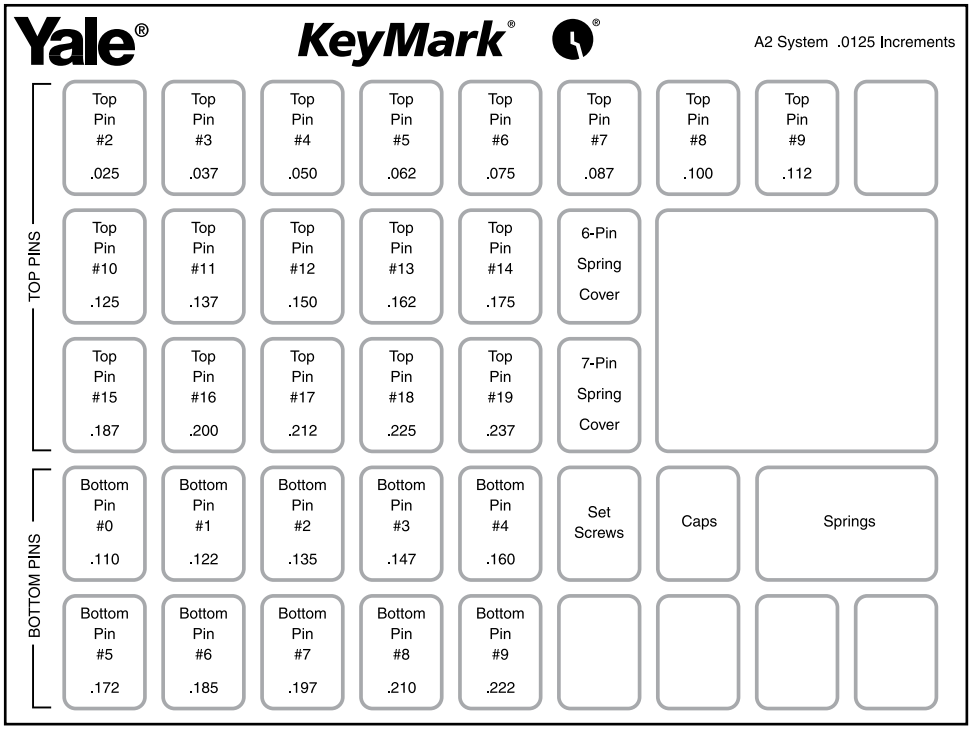
Bottom Pins

Master, Build-up & Top Pins		
Size	**Length**	**Model Number**
2	.025"	K702
3	.037"	K703
4	.050"	K704
5	.062"	K705
6 (Spool)	.075"	K706
7	.087"	K707
8 (Spool)	.100"	K708
9	.112"	K709
10 (Spool)	.125"	K710
11	.137"	K711
12	.150"	K712
13	.162"	K713
14	.175"	K714
15	.187"	K715
16	.200"	K716
17	.212"	K717
18	.225"	K718
19	.237"	K719

Bottom Pins		
Size	**Length**	**Model Number**
0	.110"	K720
1	.122"	K721
2	.135"	K722
3	.147"	K723
4	.160"	K724
5	.172"	K725
6	.185"	K726
7 (Spool)	.197"	K727
8 (Spool)	.210"	K728
9 (Spool)	.222"	K729

pin kits

K918



Length	Bottom	Master Build-Up Top	Pin Kit Qty.
.025"		2	100
.037"		3	100
.050"		4	100
.062"		5	100
.075"		6	100
.087"		7	100
.100"		8	100
.110"	0		100
.112"		9	100
.122"	1		100
.125"		10	100
.135"	2		100
.137"		11	100
.147"	3		100
.150"		12	100
.160"	4		100
.162"		13	100
.172"	5		100
.175"		14	100
.185"	6		100
.187"		15	100
.197”	7		100
.200”		16	100
.210”	8		100
.212”		17	100
.222”	9		100
.225”		18	100
.237”		19	100

Pin Kit Contents			
Description	**Model Number**	**Pin Kit**	**Used With**
Tumbler Springs	K730	100	All
Pin Chamber Caps	K731	25	K600
Spring Cover, 6-pin	K732	25	K800
Spring Cover, 7-pin	K733	25	K800

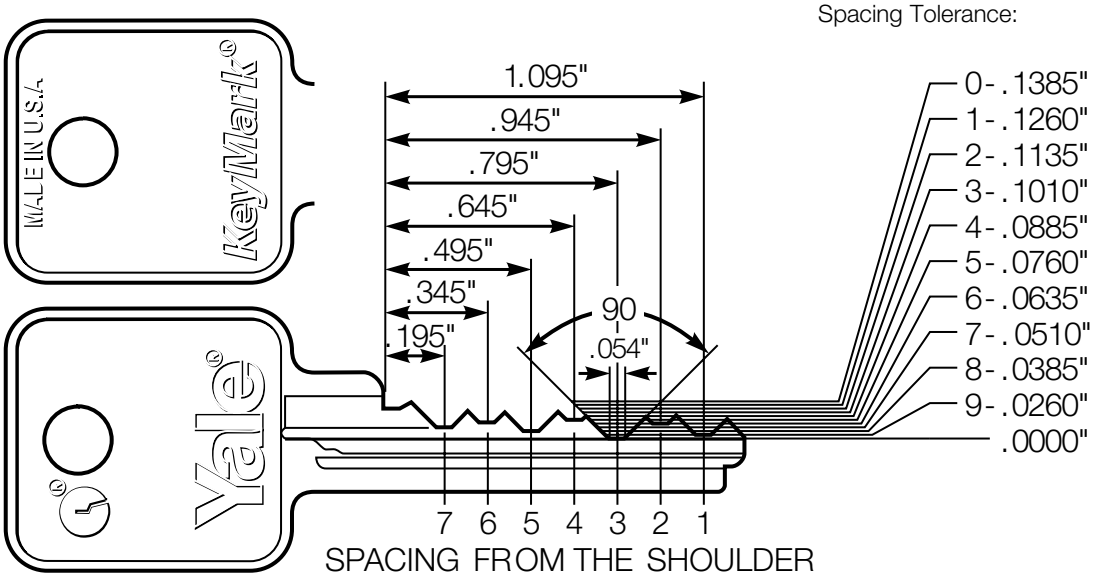
key bitting specifications

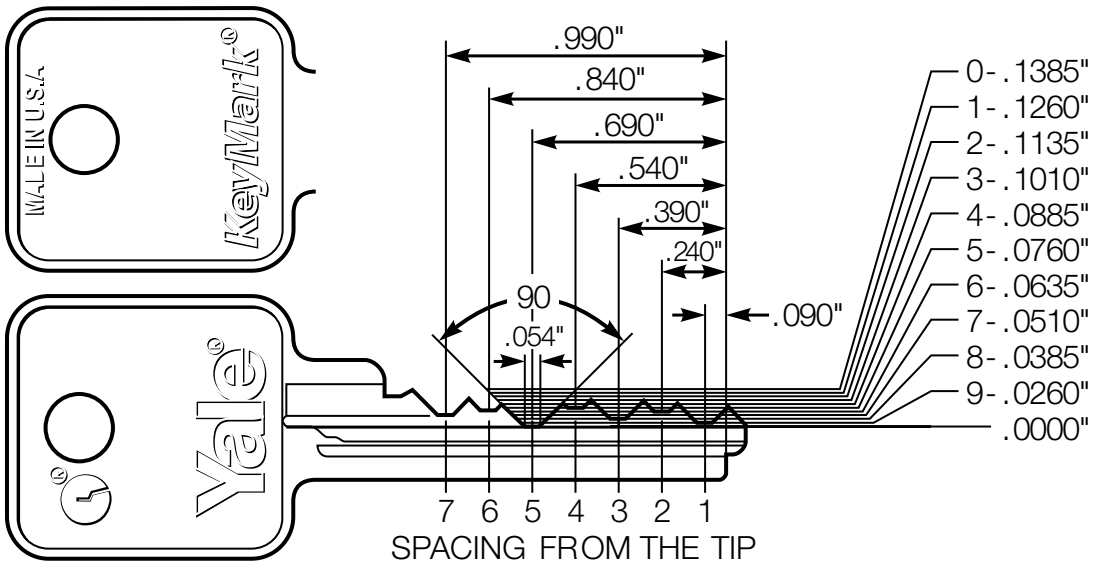
Applies to all Yale® Keymark® keyways

"A2" PINNING SPECIFICATIONS

MACS: 9

Increment:	.0125"
Progression:	Two Step
Blade Width:	.310"
Depth Tolerance:	±0.0015"
Spacing Tolerance:	±0.0010"





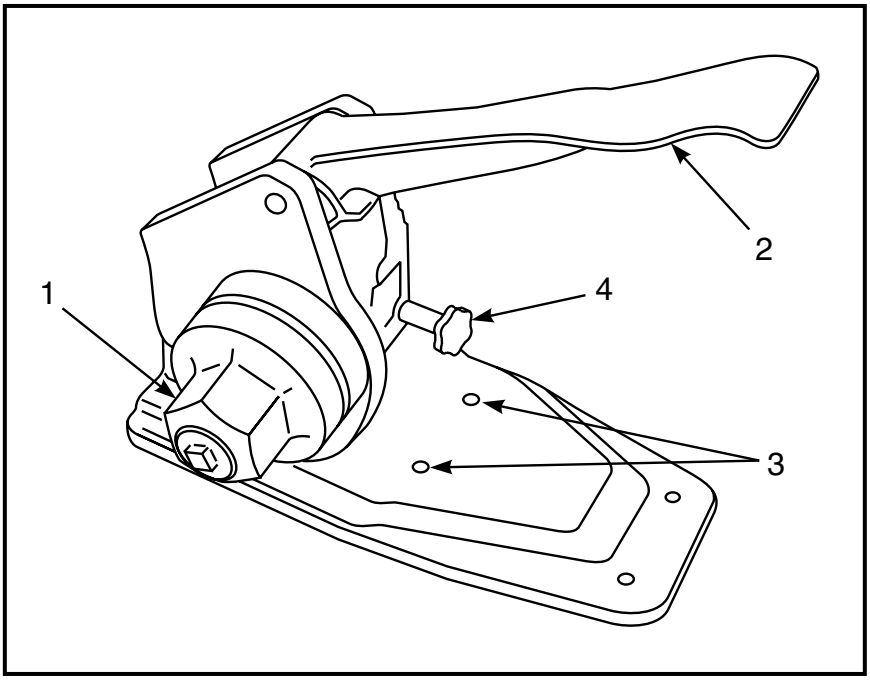
All Cuts Are Read and Written TIP to BOW

All depths are referenced from the offset or ledge of the key rather than from the bottom of the blade.

key cutting

K900 Code Cutting Punch

- Automatic Key Advance
- Interchangeable Vise Assembly



1. Depth Knob
2. Paddle Handle
3. Mounting Holes
4. Vise Assembly

Keys should only be cut using the Yale® KeyMark® K900 Code Cutting punch or other approved machines. These machines and special vises are only available through *Yale*.

Each code punch machine is designed to cut only the unique angle of *Yale Keymark* keys.

Any inserts or jaws for other machines, available in the future, will also only be available through *Yale*.

The K900 Code Cutting Punch can rest on a work bench or it can be mounted securely to the bench by means of the two mounting holes located in the base.

Note: The code punch uses a tip reference and all keys are cut tip to bow. LFIC Control Keys are furnished pre-cut in the tip position. When referencing the bitting list, the “0” cut used on the tip bitting is only to advance the vise one position.

When cutting these keys:

1. Insert the keyblank into the vise assembly.

2. Turn the depth knob to “0” and depress the paddle handle.

This will advance the vise assembly to the correct starting position for cutting the key.

3. Continue with cutting the key depths.

key cutting log

COMPANY/FACILITY NAME	BEGINNING INVENTORY
	KEY BLANKS RECEIVED
	TOTAL CUT KEYS ISSUED
KEYWAY	TOTAL MISCUT KEYS
SYSTEM REGISTRY	TOTAL ENDING INVENTORY

Date	No. of Cut Keys Issued	No. of Miscut	Facility Issued To - As per NOA	Zip Code	Key Machine Operator	Total Blanks Used	Balance of Keys	Notes

combinating cylinders

Calculating the "A2" Pin Stack

Rules For Top Loading
K600 (SFIC) Cylinders

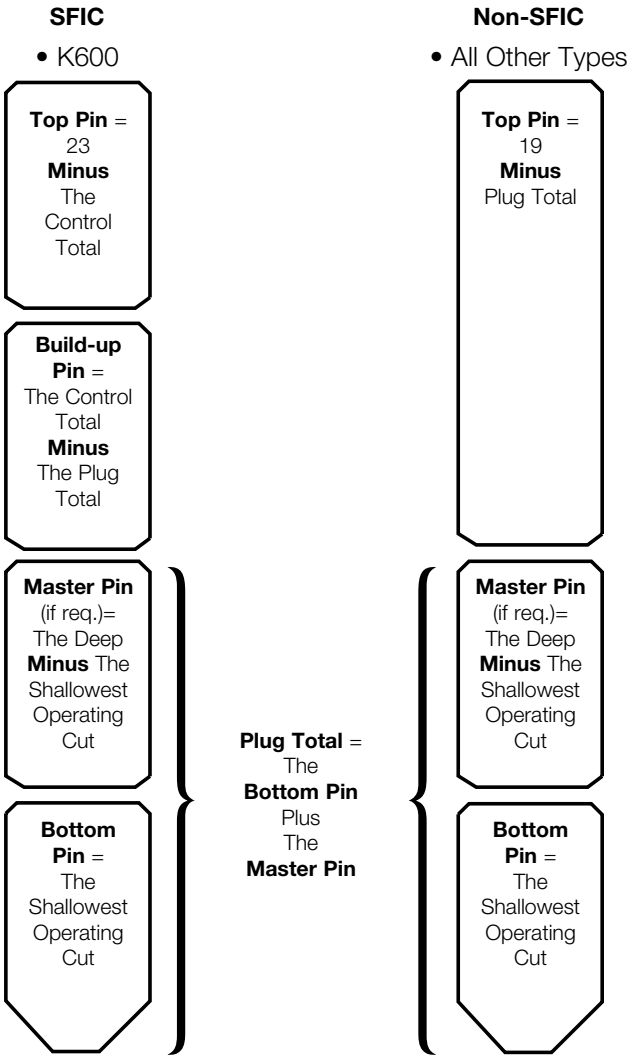
For best results, pin the cylinder one chamber at a time.

- Pin the cylinder to the operating keys – change key(s) and master keys(s) – using bottom and master pins
- Pin the cylinder to the control key by inserting a "build-up pin" in each chamber. To determine the build-up pin numbers:
  - Add 10 to each of the control key cuts. This is called the "control total";
  - For each chamber, subtract the bottom pin and master pin total (plug total) from the control total;
  - Use the resulting number as your build-up pin number.
- Load the top pin. To determine the top pin number, subtract the control total from 23. Reference the "Quick Subtraction Chart" for quick calculation (see page 15).
- The total stack height (the sum of all the pins) must equal 23.
- After all chambers have been pinned, insert the core into the capping block, load springs, and cap.

Rules For Top Loading K100/K200/K300/K400/K800
(Non-SFIC) Cylinders

For best results, pin the cylinder one chamber at a time.

- Pin the cylinder to the operating keys – change key(s) and master keys(s) – using bottom and master pins
- Load the top pin. To determine the top pin number, subtract the bottom pin and master pin total (plug total) from 19. Reference the "Quick Subtraction Chart" for quick calculation (see page 17).
- The total stack height (the sum of all the pins) must equal 19.
- After all chambers have been pinned, insert the core/cylinder into the capping block, load springs, and cap.



See page 14 & 15 for completed sample and blank combinating worksheets of SFIC cylinders.
See page 16 & 17 for completed sample and blank combinating worksheets of Non-SFIC cylinders.

combinating worksheet: K600 (SFIC)

Completed Sample

CALCULATION				CHAMBERS						
				TIP						BOW
OPERATING KEYS				**1**	**2**	**3**	**4**	**5**	**6**	**7**
	01	GGMK	Insert Bitting	—	—	—	—	—	—	—
	02	GMK A	Insert Bitting	3	4	9	5	0	6	
	03	MK AA	Insert Bitting	5	2	9	5	0	6	
	04	CK AAI	Insert Bitting	5	2	1	7	2	6	
P1»	**05**	Bottom Pin	[Shallowest Operating Cut]	3	2	1	5	0	6	
P2»	**06**	Master Pin	[Deepest Minus Shallowest Operating Cut]	2	2	8	2	2	X	
	07	Plug Total	[Master Plus Bottom Total]	5	4	9	7	2	6	
CONTROL KEY										
	C1	Control Cut	Insert Bitting	1	6	5	9	8	2	
	C2	Control Total	[Add 10 to C1]	11	16	15	19	18	12	
BUILD-UP PIN										
	B1	Control Total	[C2]	11	16	15	19	18	12	
	B2	Plug Total	[07]	5	4	9	7	2	6	
P3»	**B3**	Build-up Pin	[Subtract B2 from B1]	6	12	6	12	16	6	
TOP PIN										
	T1	Stack Height	[Pre-set]	23	23	23	23	23	23	23
	T2	Control Total	[B1]	11	16	15	19	18	12	
P4»	**T3**	Top Pin	[Subtract T2 from T1]	12	7	8	4	5	11	
PINNING SET UP										
(T3)		**P4»**	Top Pin	12	7	8	4	5	11	
(B3)		**P3»**	Build-up Pin	6	12	6	12	16	6	
(06)		**P2»**	Master Pin	2	2	8	2	2	X	
(05)		**P1»**	Bottom Pin	3	2	1	5	0	6	

To verify: P1, P2, P3 & P4 in each chamber must add up to 23.

combinating worksheet: K600 (SFIC)

Blank Worksheet

CALCULATION				CHAMBERS						
				TIP						BOW
OPERATING KEYS				1	2	3	4	5	6	7
	01	GGMK	Insert Bitting							
	02	GMK	Insert Bitting							
	03	MK	Insert Bitting							
	04	CK	Insert Bitting							
P1»	05	Bottom Pin	[Shallowest Operating Cut]							
P2»	06	Master Pin	[Deepest Minus Shallowest Operating Cut]							
	07	Plug Total	[Master Plus Bottom Total]							
CONTROL KEY										
	C1	Control Cut	Insert Bitting							
	C2	Control Total	[Add 10 to C1]							
BUILD-UP PIN										
	B1	Control Total	[C2]							
	B2	Plug Total	[07]							
P3»	B3	Build-up Pin	[Subtract B2 from B1]							
TOP PIN										
	T1	Stack Height	[Pre-set]	23	23	23	23	23	23	23
	T2	Control Total	[B1]							
P4»	T3	Top Pin	[Subtract T2 from T1]							
PINNING SET UP										
(T3)		P4»	Top Pin							
(B3)		P3»	Build-up Pin							
(06)		P2»	Master Pin							
(05)		P1»	Bottom Pin							

To verify: P1, P2, P3 & P4 in each chamber must add up to 23.

Quick Subtraction Chart

Minus	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

combinating worksheet: K100/K200/K300/K400/K800 (Non-SFIC)

Completed Sample

CALCULATION				CHAMBERS						
				TIP						BOW
OPERATING KEYS				**1**	**2**	**3**	**4**	**5**	**6**	**7**
	01	GGMK	Insert Bitting	—	—	—	—	—	—	—
	02	GMK A	Insert Bitting	3	4	9	5	0	6	
	03	MK AA	Insert Bitting	5	2	9	5	0	6	
	04	CK AAI	Insert Bitting	5	2	1	7	2	6	
P1»	**05**	Bottom Pin	[Shallowest Operating Cut]	3	2	1	5	0	6	
P2»	**06**	Master Pin	[Deepest Minus Shallowest Operating Cut]	2	2	8	2	2	X	
	07	Plug Total	[Master Plus Bottom Total]	5	4	9	7	2	6	
TOP PIN										
	T1	Stack Height	[Pre-set]	19	19	19	19	19	19	19
	T2	Control Total	[07]	5	4	9	7	2	6	
P4»	**T3**	Top Pin	[Subtract T2 from T1]	14	15	10	12	17	13	
PINNING SET UP										
(T3)		**P3»**	Top Pin	14	15	10	12	17	13	
(06)		**P2»**	Master Pin	2	2	8	2	2	X	
(05)		**P1»**	Bottom Pin	3	2	1	5	0	6	

To verify: P1, P2 & P3 in each chamber must add up to 19.

combinating worksheet: K100/K200/K300/K400/K800 (Non-SFIC)

Blank Worksheet

CALCULATION				CHAMBERS						
				TIP						BOW
OPERATING KEYS				1	2	3	4	5	6	7
	01	GGMK	Insert Bitting							
	02	GMK	Insert Bitting							
	03	MK	Insert Bitting							
	04	CK	Insert Bitting							
P1»	05	Bottom Pin	[Shallowest Operating Cut]							
P2»	06	Master Pin	[Deepest Minus Shallowest Operating Cut]							
	07	Plug Total	[Master Plus Bottom Total]							
TOP PIN										
	T1	Stack Height	[Pre-set]	19	19	19	19	19	19	19
	T2	Control Total	[07]							
P4»	T3	Top Pin	[Subtract T2 from T1]							
PINNING SET UP										
(T3)		P3»	Top Pin							
(06)		P2»	Master Pin							
(05)		P1»	Bottom Pin							

To verify: P1, P2 & P3 in each chamber must add up to 19.

Quick Subtraction Chart

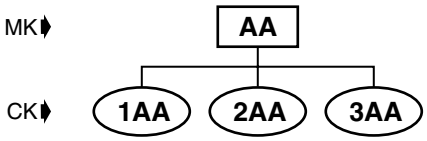
Minus	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

master keying

Standard Key Coding System

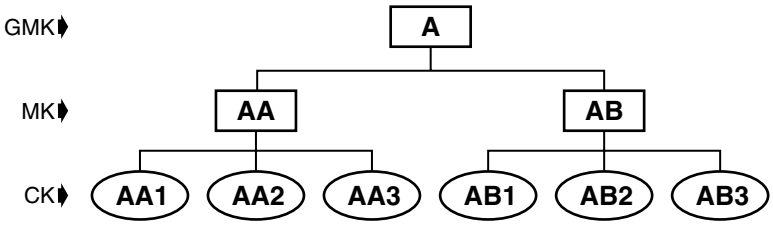
Standard Master Key System:
2 Levels of Keying

Master key is assigned two letters. Change key numbers come before the MK letters.



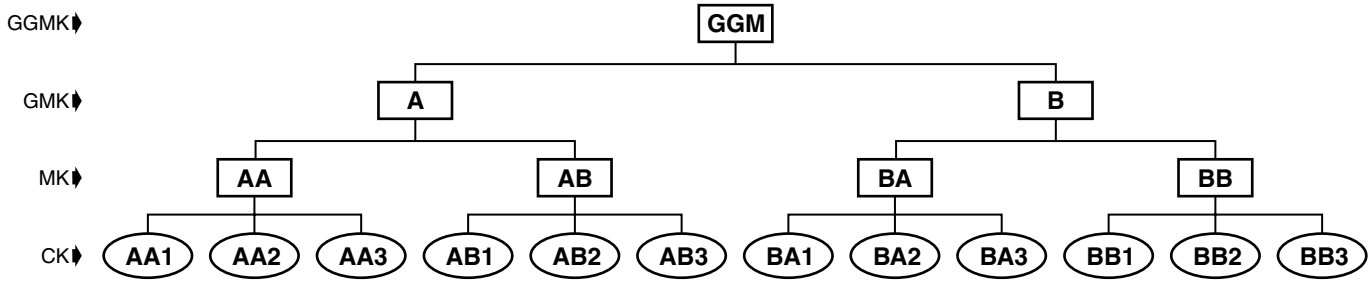
Grand Master Key System:
3 Levels of Keying

Grand master key is assigned one letter. Masters under the GMK are assigned two letters, the first being the same as the GMK letter. Change keys numbers come after the MK letters.



Great Grand Master Key System: 4 Levels of Keying

Great grand master key has the symbol of GGM. Grand master keys are each assigned one letter. Masters under the GMK are assigned two letters, the first letter being the same as the GMK letter. Change key numbers come after the MK letters.



Special Keying Situations

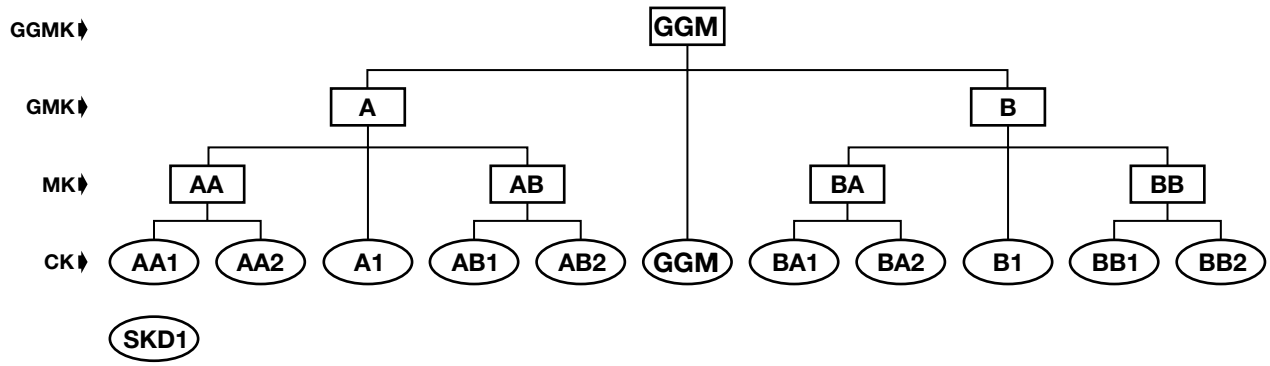
Cylinder is operated by the change key and GMK, but no MK: Change key numbers come after the single GMK letter. Example: A1, A2, B1, etc.

Cylinder is operated by change key and GGM only, but no GMK or MK: Use symbols GGM1, GGM2, etc.

Cylinder is operated by one of the system's change keys but no MK's of any level: Suffix "(NMK)" to the regular symbol. Example: 3AA(NMK), AA7(NMK), etc.

Cylinder is operated by no keys in the system other than its own individual key: Single keyed sets SKD1, SKD2, etc.

master keying



Master Key System Specifications
Refer to page 10 for the Key Bitting Specifications.

Expansion Specifications

Yale® KeyMark® systems should include expansion specifications which indicate the maximum planned quantity of theoretical bitting combinations needed at each level of keying. The expansion specification is the arithmetic expression of the expansion in the form of numbers separated by dashes. Each number refers to the level of keying system to which it relates.

Examples:

For a 2-level system requiring fifty change keys, the expansion specification would be: 1-50

For a 3-level system requiring two masters under the grand and forty change keys under each master, the expansion specification would be: 1-2-40

For a 4-level system requiring three grands each with ten masters with fifty changes, the expansion specification would be: 1-3-10-50

The number of changes needed directly operated by the GGM or GM is indicated in parenthesis after that level's specification. For example: 1(10)-4-75 would be read "one grand master with four masters under the grand, seventy-five changes under each master, and ten changes directly under the grand master only."

The following charts are examples of master keying specifications for *Yale KeyMark* 6- and 7-pin master key systems:

6-pin					
		GGM	**GM**	**MK**	**CK**
Level 2		⃠	⃠	1	4096
Level 3	A	⃠	1	4	1024
	B	⃠	1	16	256
	C	⃠	1	64	64
Level 4	A	1	4	4	256
	B	1	4	16	64
	C	1	16	16	16

7-pin					
		GGM	**GM**	**MK**	**CK**
Level 2		⃠	⃠	1	16384
Level 3	A	⃠	1	4	4096
	B	⃠	1	16	1024
	C	⃠	1	64	256
Level 4	A	1	4	4	1024
	B	1	4	16	256
	C	1	16	16	64

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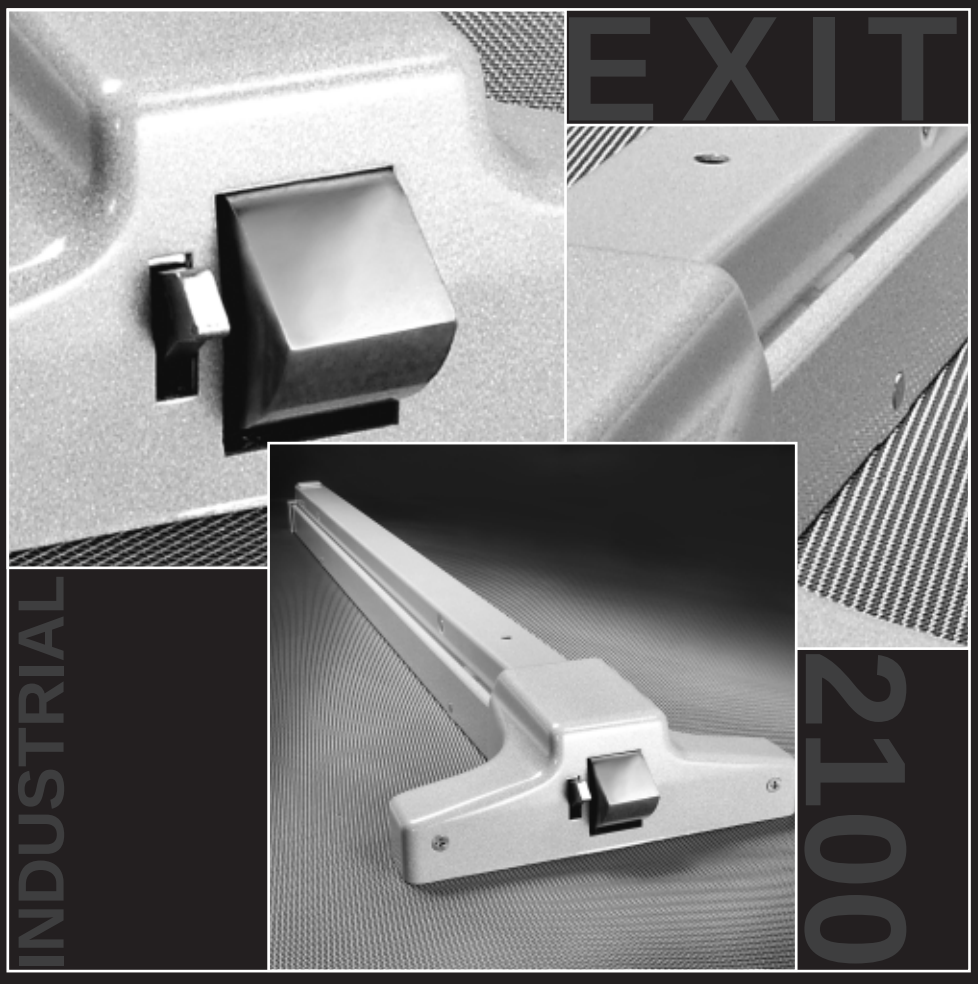
42250-9/13RE

Yale®

FLATBAR EXIT DEVICE

2100 SERIES



PARTS & SERIVCE MANUAL

An ASSA ABLOY Group brand

ASSA ABLOY

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FINISH CHART

ANSI Code	Finish Description
612*	Satin bronze, clear coated
613*	Dark oxidized satin bronze, oil rubbed
626*	Satin chrome plated
630	Satin stainless steel
689	Aluminum painted
691	Light bronze painted
695	Dark bronze painted

*Trim finish option only.

INTRODUCTION

Installation Notes

1. Only fire-rated components can be used on fire-rated exit devices. Doing otherwise will void any type of product warranty, labeling and listing. Any component bearing the UL mark for fire rating cannot be supplied Ref. items with (UL) symbol.
2. Refer to the templates and installation instructions for complete door preparation and installation requirements.
3. Machine screws are provided for steel reinforced doors, threaded-to-the-head AB Type screws are provided for wood door applications. In addition, sex nuts and bolts are provided for fire-rated devices and are optional for non-rated devices. It is recommended that sex nuts and bolts be used for all exit device applications. This will improve the performance and extend the life of the product.

How to Order Parts

1. In order to simplify the ordering procedure and maintain regulatory compliance, parts are only available as listed
2. To order parts, provide the appropriate quantity, part number, finish, hand (when required) and description as directed and illustrated below.

For example, use the following configuration to order:

A) ten mullion stabilizer kits (page 38) to match 600 application (primed for painting)

B) one surface vertical rod latch cover (page 6) in bright brass

	Quantity	Part Number	Finish	Hand	Description
A	10	81-9500-1417-FIN	600	---	Stabilizer Kit
B	1	60-7010-X040-FIN	605	---	Top Latch Cover

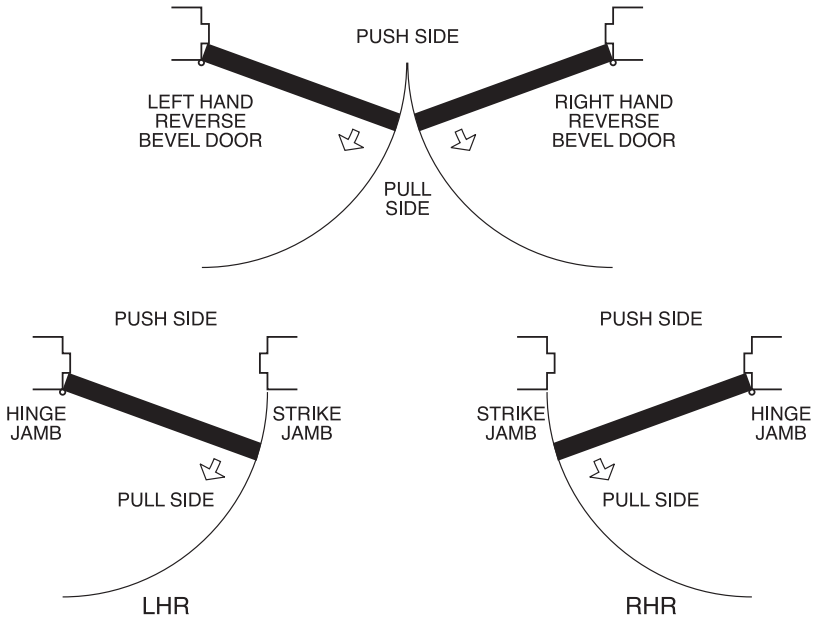
For assistance, contact your authorized Yale® distributor or sales agency, or visit our website at www.yalecommercial.com.

Handing

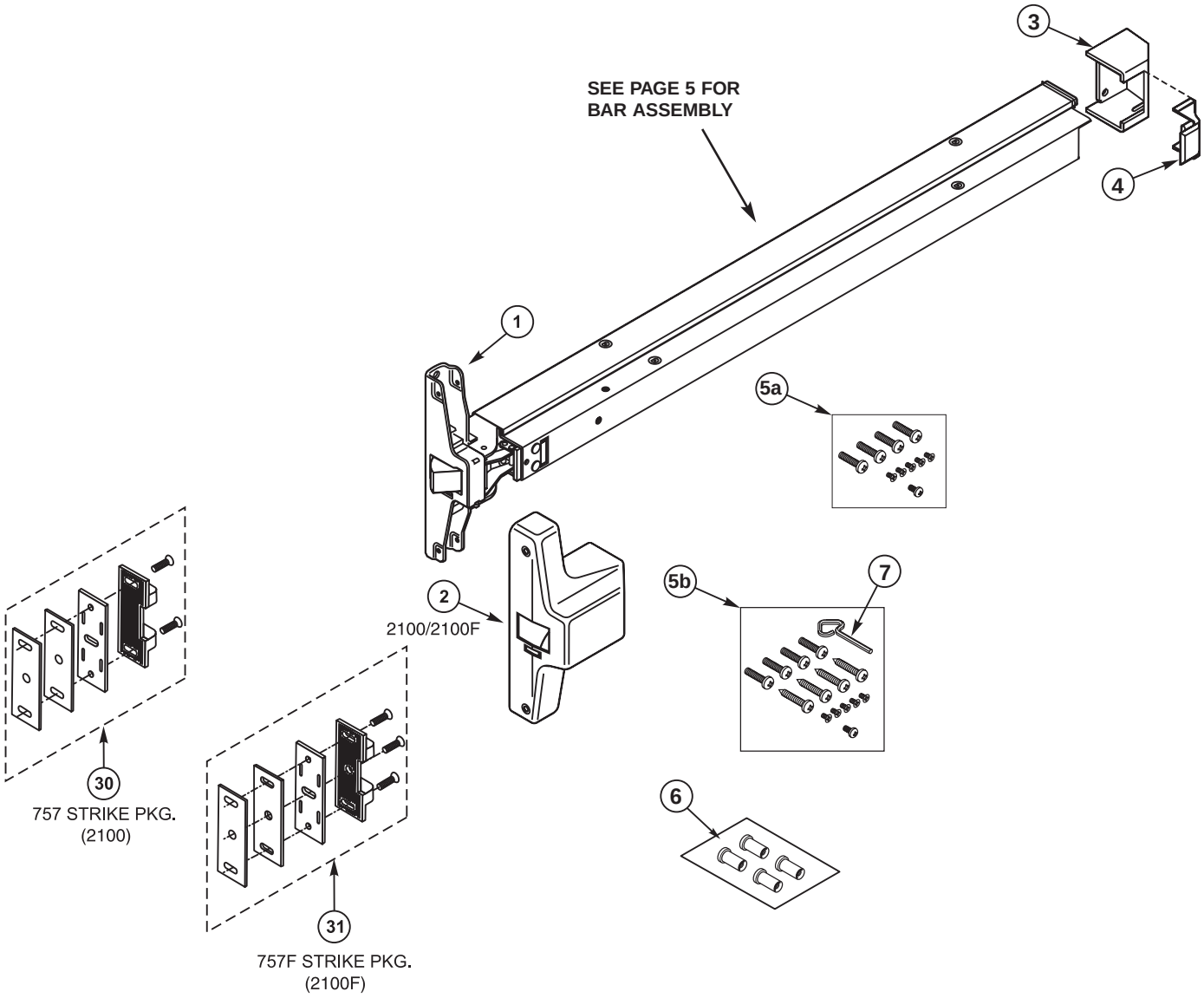
Left Hand Reverse: Hinges on left, opens outward. For handed devices, specify LHR.

Right Hand Reverse: Hinges on right, opens outward. For handed devices, specify RHR.

Note: Doors with Panic-Exit and Fire Exit hardware must open out. Therefore, hands must be reverse bevel.



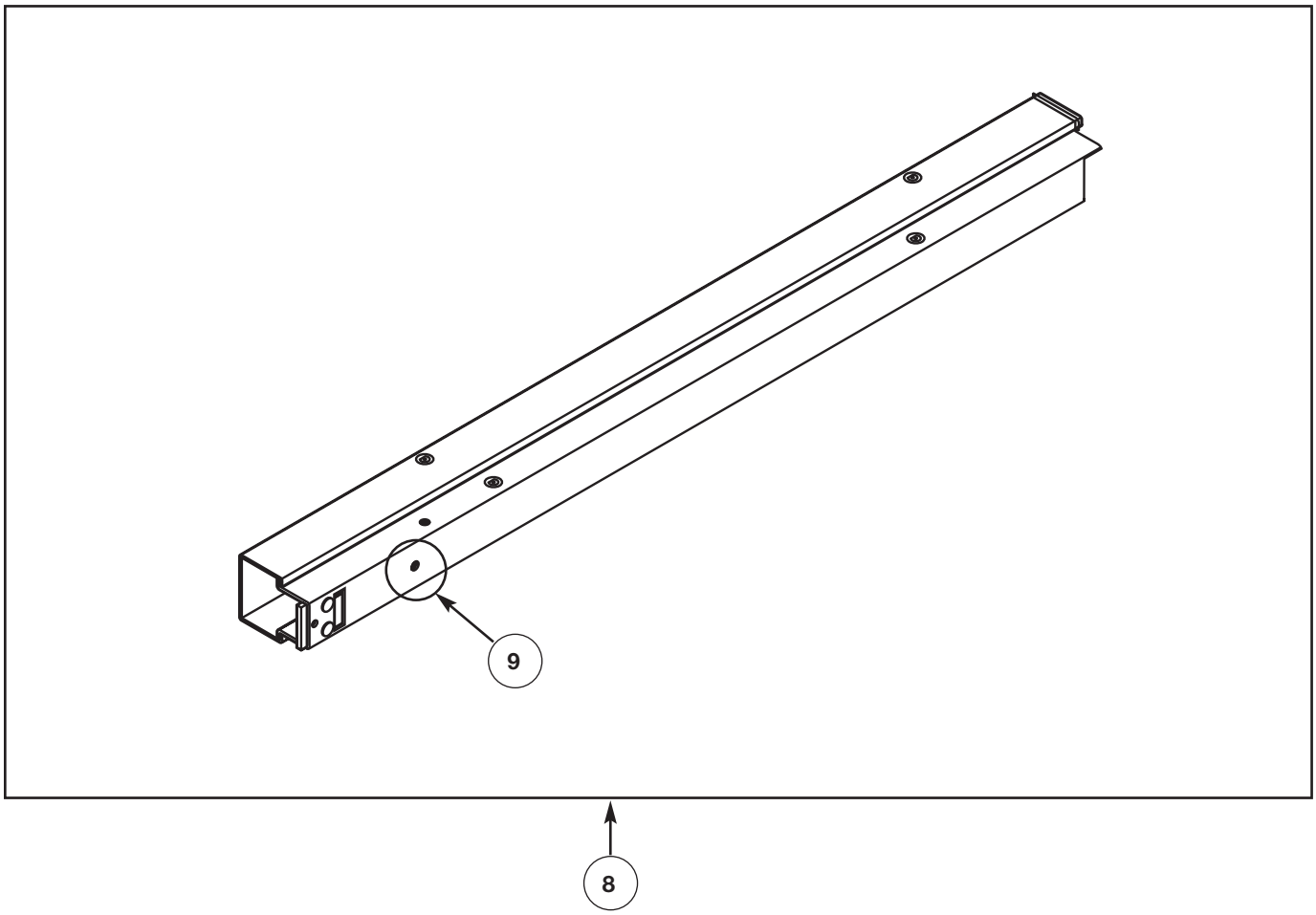
2100/2100F RIM EXIT DEVICE



ITEM	PART NO.	DESCRIPTION
1		Latch Assembly
	60-2100-0010-048	2100
	60-2100-0011-048	2100F
2		Cover
	60-2100-6003-FIN	2100
3	60-2000-6179-FIN	Bottom End Cap
4	60-2000-6178-FIN	Top End Cap

ITEM	PART NO.	DESCRIPTION
5a	81-9500-1376-059	Mtg. Screw Pack (2100F)
5b	81-9500-1395-059	Mtg. Screw Pack (2100)
6	03-0080-5047-FIN	Sex Nut Pack (4) (2 Packs) Fire-Rated Only
7	60-7000-1131-036	Dogging Key
30	81-9500-1356-200	757 Strike Packet (2100)
31	81-9500-1373-200	757F Strike Packet (2100F)

2100 BAR ASSEMBLY



ITEM	PART NO.	DESCRIPTION
8	60-2100-0014	Dogging Bar Assembly, 36"
8	60-2100-0015	Dogging Bar Assembly, 42"
8	60-2100-0088	Dogging Bar Assembly, 48"
8	60-2100-0008	Fire Rated Bar Assembly, 36"
8	60-2100-0009	Fire Rated Bar Assembly, 42"
8	60-2100-0087	Fire Rated Bar Assembly, 48"

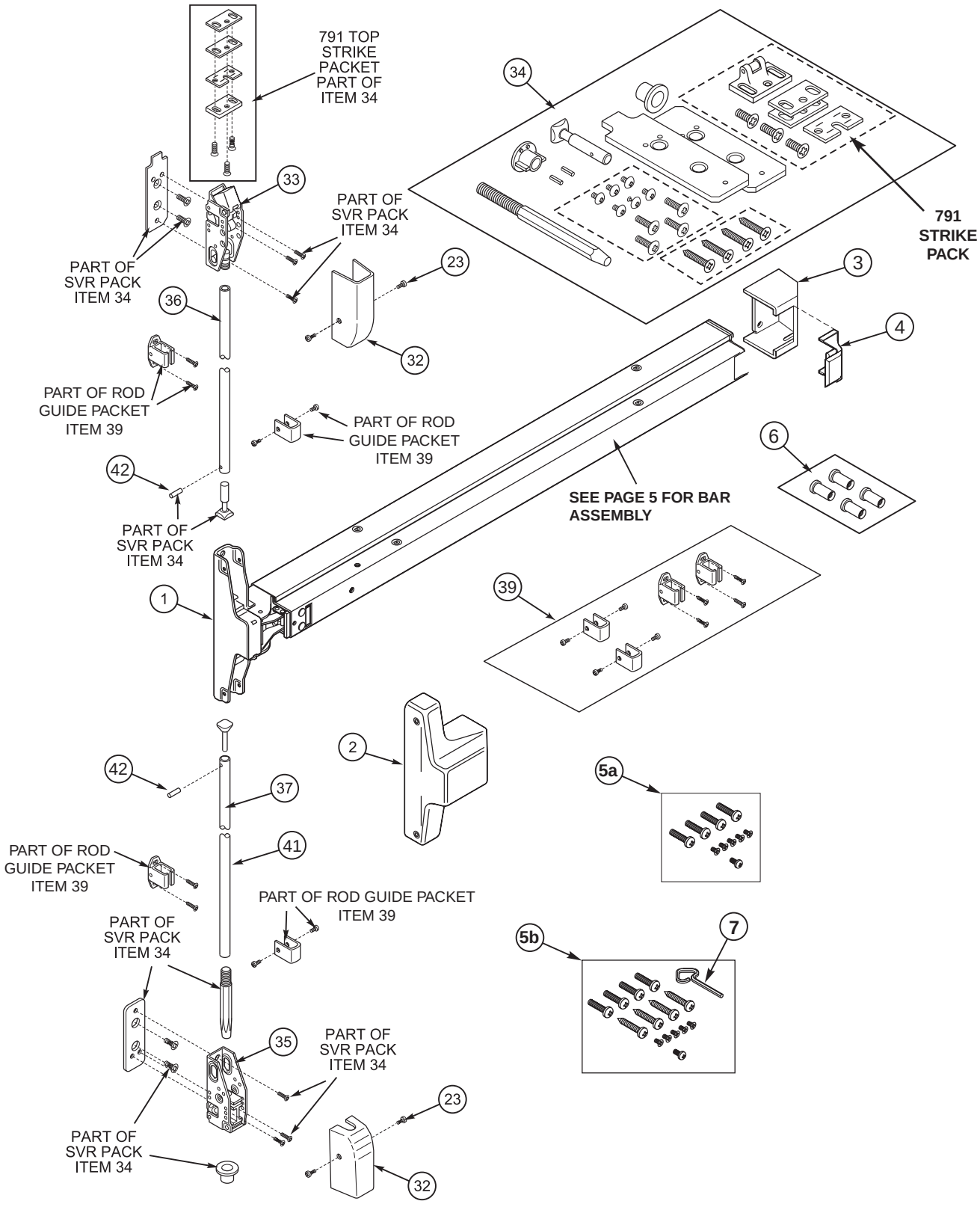
ITEM	PART NO.	DESCRIPTION
9	81-9500-1399-000	Dogging Kit
		(Consists of the following)
	60-2100-1001-999	Dogging Drive
	99-9999-7330-036	Wavy Washer
	60-2100-1007-048	Bushing
	81-3815-0412-036	Screw, Thread Forming Swage-Form/Trilobular or Equivalent Phillips Truss Head Machine 8-32 x 1/2"

2110/2110F SURFACE VERTICAL ROD

ITEM	PART NO.	DESCRIPTION
1		Latch Assembly
	60-2110-0002-048	2110, 2110F (Must Specify Hand)
2		Cover
	60-2110-6004-FIN	2110
3	60-2000-6179-FIN	Bottom End Cap
4	60-2000-6178-FIN	Top End Cap
5a	81-9500-1376-059	Mtg. Screw Pack (2110F)
5b	81-9500-1395-059	Mtg. Screw Pack (2110)
6	03-0080-5047-FIN	Sex Nut Pack (4) (2 packs) Fire Rated Only
7	60-7000-1131-036	Dogging Key
23	81-9500-1549-FIN	Screw Packet, Cover #8-32 x 5/16" UFPHMS (4)
32	60-7010-X040-FIN	Cover, Top & Bottom Latch
33		Top Latch
	60-7010-0049-999	2110
	60-7010-0050-999	2110F

ITEM	PART NO.	DESCRIPTION
34	81-9500-1512-000	SVR Pack
		Consists of the following:
	60-7110-1038-048	Top Mtg. Plate
	60-7010-1039-048	Bottom Mtg. Plate
	60-7010-1067-048	Top Rod Connector
	99-9999-4308-999	Spring Pin (2)
	60-1500-6150-999	Drill Jig
	60-7010-1046-059	Floor Bolt
	60-7010-1055-200	Strike
	81-9500-1546-000	Latch Mounting Screw Packet
	81-3111-0676-048	Latch Mounting Screw (4) (Wood Door Panic)
	81-9500-1454-200	791 Top Strike Packet
35		Bottom Bolt Case
	60-7010-0054-000	2110
	60-7010-0053-000	2110F
36	60-2110-7006-FIN	Top Rod
37	60-7010-1025-059	Bottom Rod Connector
39	81-9500-1514-FIN	Rod Guide Packet
41	60-2110-7007-FIN	Bottom Rod
42	99-9999-4308-999	Spring Pin

2110/2110F SURFACE VERTICAL ROD

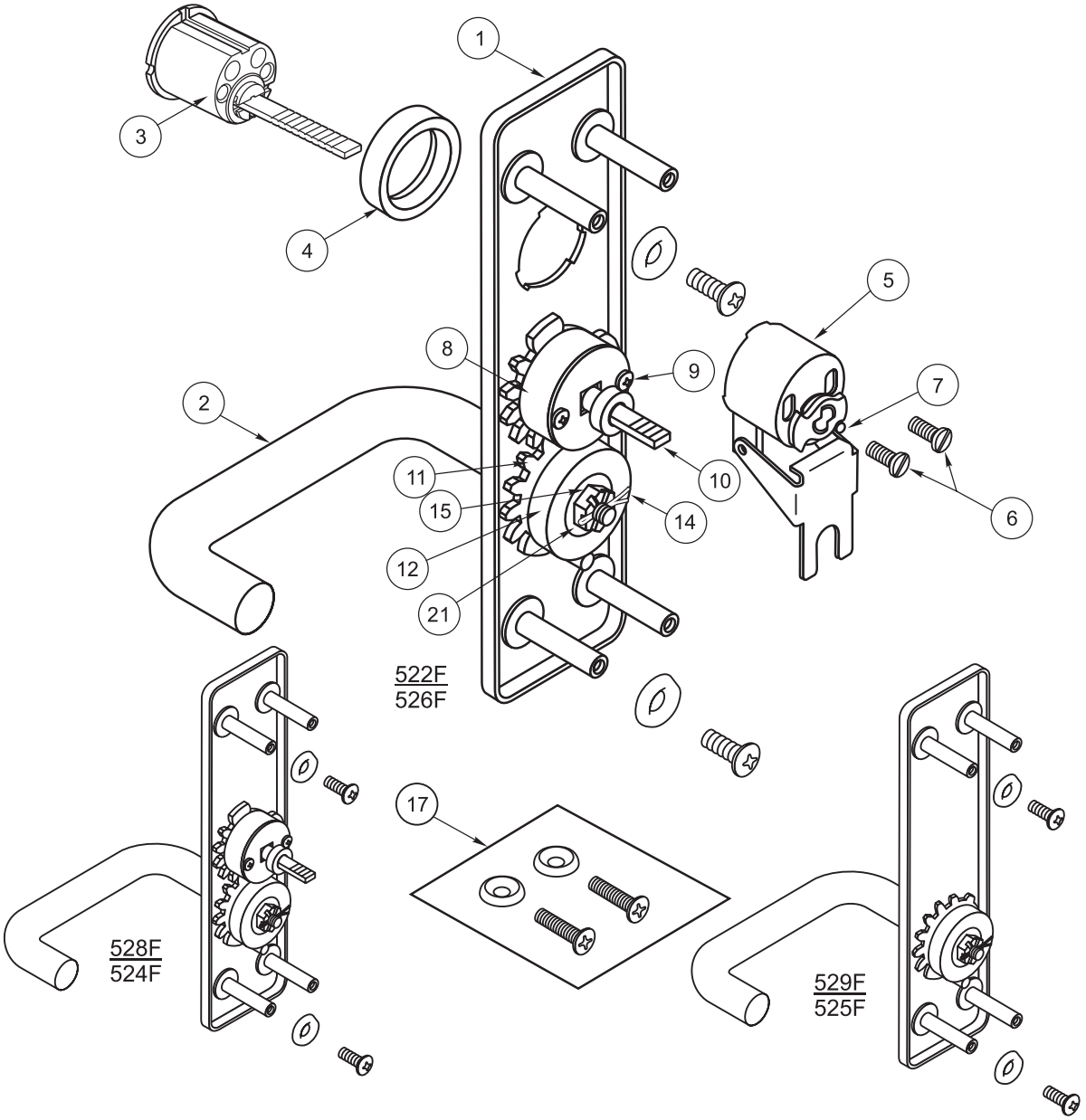


522F, 524F, 525F, 526F, 528F, 529F TRIM

ITEM	PART NO.	DESCRIPTION
1	 60-7000-0414-FIN 60-7000-0415-FIN	Escutcheon Assembly 522F, 526F 524F, 525F, 528F, 529F
2	*See Chart Page 27*	Lever/Knob
3	*See Chart Page 34*	Cylinder, Rim
4	*See Chart Page 34*	Cylinder Collar
5	60-7000-0215-000	Housing & Cam Assy.
6	60-7000-1235-048	Screw, Cylinder Mounting (2)
7	81-0016-2200-999	Screw, NL Function
8	60-7000-0046-000	Driver Gear Assembly
9	81-4414-0308-036	Screw, Tailpiece Plate, #6 x 3/8", PHT-T-PH (2)
10	 60-7000-0216-059 60-7000-0217-059	Tailpiece Assembly 1-3/4" Door Without Shim Kit 2" - 2-1/4" Door or Std. Door with Shim Kit
11	60-7000-1328-048	1 Drive Lever Gear (2 on 525F)
12	60-7000-6217-082	Hub, Lever
14	99-9958-0047-999	Cotter Pin

ITEM	PART NO.	DESCRIPTION
15	99-9999-3516-999	Nut, Spindle
16	60-7000-9001-999	Thimble Insert, Nylon (Levers) *Not Shown*
17	81-9500-1476-FIN 81-0013-0670-FIN 99-9999-7156-FIN	Screw Packet, Mtg. *Consists of the following:* Screw, 1/4-20 x 1 OPHMS (2) Washer, #14 Finish (2)
18	 60-7000-1224-999 60-7000-1225-999 60-7000-1234-999	Spring, Grip Return (not shown) Levers, RHR (blue) Levers, LHR (red) Knob
19	60-7000-1306-999	Spring (not shown) Under Tailpiece
20	60-7000-1305-059	Hex Nut / Bushing for Spring (not shown)
21	60-7000-1236-059	Washer Under Slotted Hex Nut and Tailpiece
49	60-7000-X055-FIN	Thimble (not shown) Levers & Knobs

522F, 524F, 525F, 526F, 528F, 529F TRIM



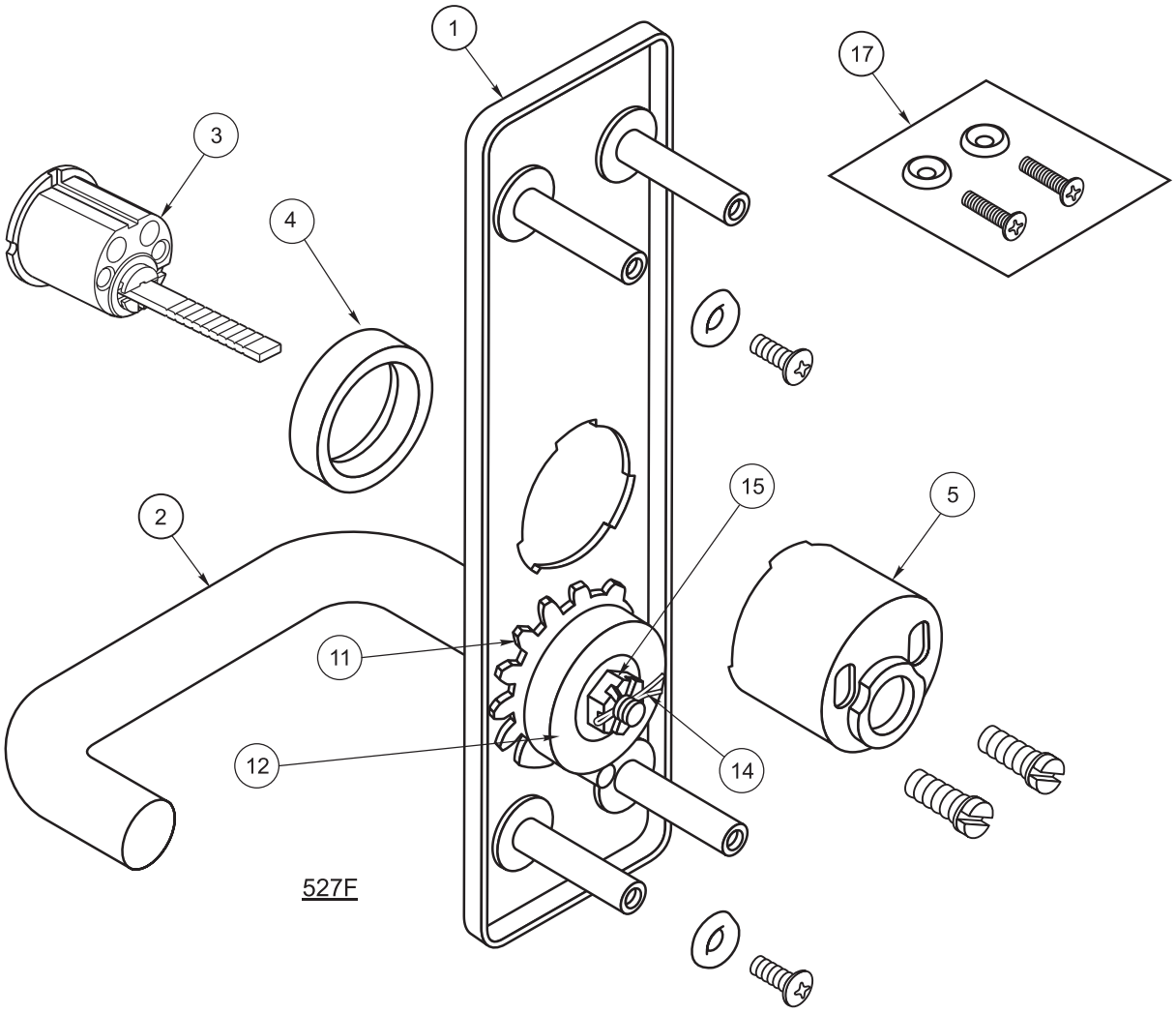
Dummy Rigid Lever	(Passage) Active Lever or Dummy Free Wheeling Lever	Cylinder Controls Lever	Access by Key and Lever	Dummy Rigid Knob	(Passage) Active Knob	Cylinder Controls Knob	Access by Key and Knob
F02	F02	F08	F09	F02	F14	F08	F09
529F	528F	526F	526F	525F	524F	522F	522F

523F, 527F TRIM

ITEM	PART NO.	DESCRIPTION
1	60-7000-0526-FIN	Escutcheon Assembly
2	*See Chart Page 27*	Lever/Knob
3	*See Chart Page 34*	Cylinder, Rim
4	*See Chart Page 34*	Collar, Rim Cylinder
5	60-2000-6206-082	Housing, Cylinder
11	60-7000-1011-059	Gear, Drive
12	60-7000-6217-082	Hub, Lever

ITEM	PART NO.	DESCRIPTION
14	99-9958-0047-999	Cotter Pin
15	99-9999-3516-999	Nut, Spindle
17	81-9500-1476-FIN	Screw Packet, Mtg.
		Consists of the following:
	81-0013-0670-FIN	Screw, 1/4-20 x 1 OPHMS (2)
	99-9999-7156-FIN	Washer, #14 Finish (2)

523F, 527F TRIM



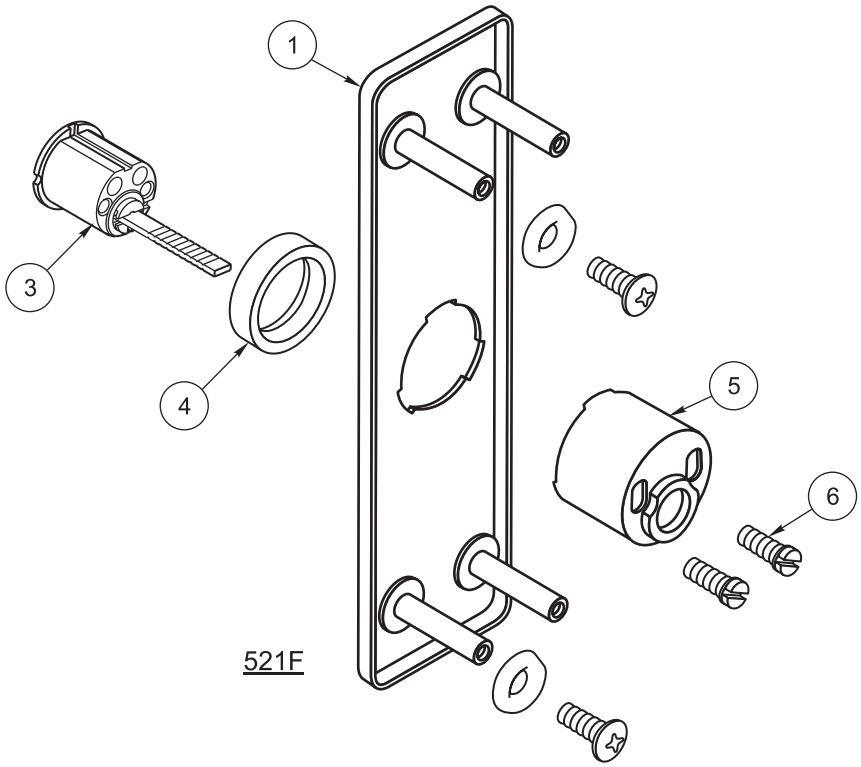
Nightlatch Access by Key	**Nightlatch Access by Key**
F03	F03
527F	523F

520F, 521F TRIM

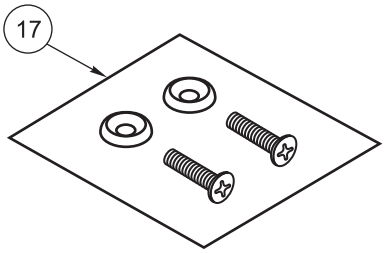
ITEM	PART NO.	DESCRIPTION
1		Escutcheon Assembly
	60-7000-0142-FIN	520F
	60-7000-0146-FIN (Brass)	521F
	60-7000-0147-FIN (Bronze)	521F
	60-7000-0148-FIN (Stainless Steel)	521F
3	*See Chart Page 34*	Cylinder
4	*See Chart Page 34*	Collar, Mortise

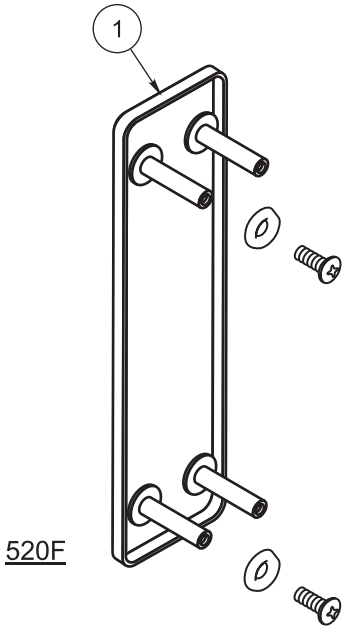
ITEM	PART NO.	DESCRIPTION
5	60-2000-6206-082	Housing, Cylinder 521F
6	60-7000-1235-048	Screw, Cylinder 521F Mounting (2)
17	81-9500-1476-FIN	Screw Packet, Mtg. *Consists of the following:*
	81-0013-0670-FIN	Screw, 1/4-20 x 1 OPHMS (2)
	99-9999-7156-FIN	Washer, #14 Finish (2)

520F, 521F TRIM



521F





520F

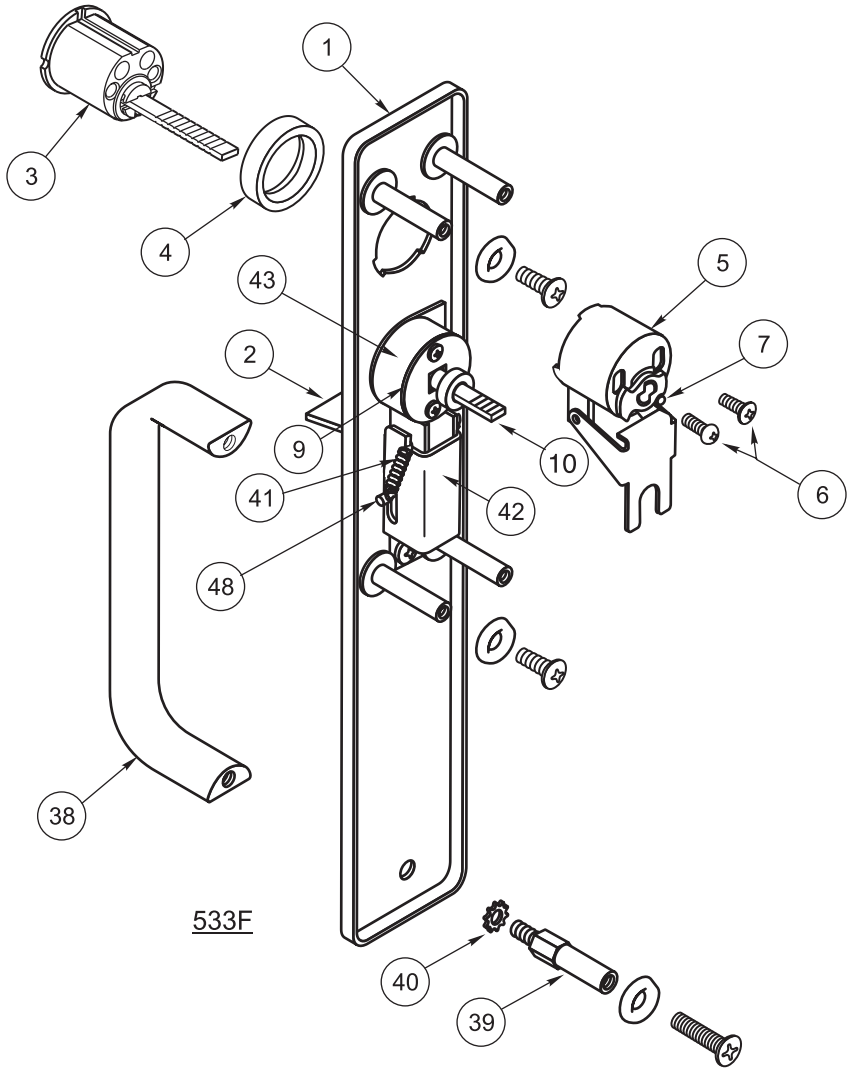
(EO) Blank Plate	**(NIL) Access by Key**
F01	**F03**
520F	521F

533F, 535F TRIM

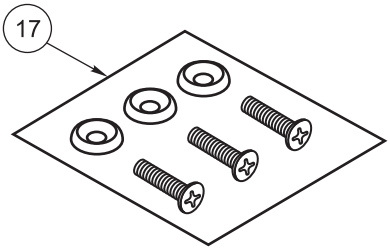
ITEM	PART NO.	DESCRIPTION
1		Escutcheon Assembly
	60-7000-0222-FIN (Brass)	535F
	60-7000-0223-FIN (Bronze)	535F
	60-7000-0224-FIN (Stainless Steel)	535F
	60-7000-0413-FIN	533F
2	60-7000-X192-FIN	Thumbpiece
3	*See Chart Page 34*	Cylinder, Rim
4	*See Chart Page 34*	Collar, Rim Cylinder
5	60-7000-0215-000	Housing & Cam Assembly
6	60-7000-1235-048	Screw, Cylinder Mounting (2)
7	81-0016-2200-999	Screw, NL Function
9	81-4414-0308-036	Screw, Tailpiece Plate, #6 x 3/8 PHT-T-PH (2)
10	60-7000-0212-059	Tailpiece Assembly

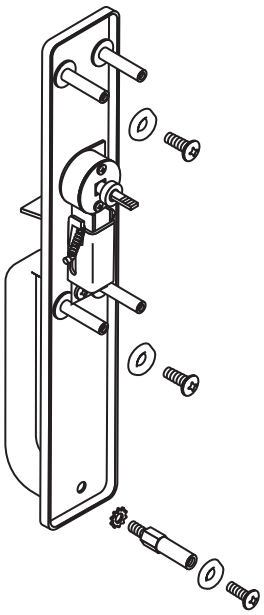
ITEM	PART NO.	DESCRIPTION
17	81-9500-1476-FIN	Screw Packet, Mtg. *Consists of the following:*
	81-0013-0670-FIN	Screw, 1/4-20 x 1 OPHMS (3)
	99-9999-7156-FIN	Washer, #14 Finish (3)
19	60-7000-1306-999	Spring (Not Shown) Under Tailpiece
20	60-7000-1305-059	Hex Nut/Bushing for Spring (Not Shown)
38	60-0010-2639-FIN	Pull, Straight
39	60-7000-1039-048	Screw Post
40	99-9999-7154-036	Lock Washer, Screw Post
41	99-9999-5697-999	Spring, Thumbpiece
42	60-7000-1190-059	Slider, Thumbpiece
43	60-7000-0214-000	Housing, Tailpiece Assy.
48	60-7000-1045-059	Pin, Thumbpiece

533F, 535F TRIM



533F





535F

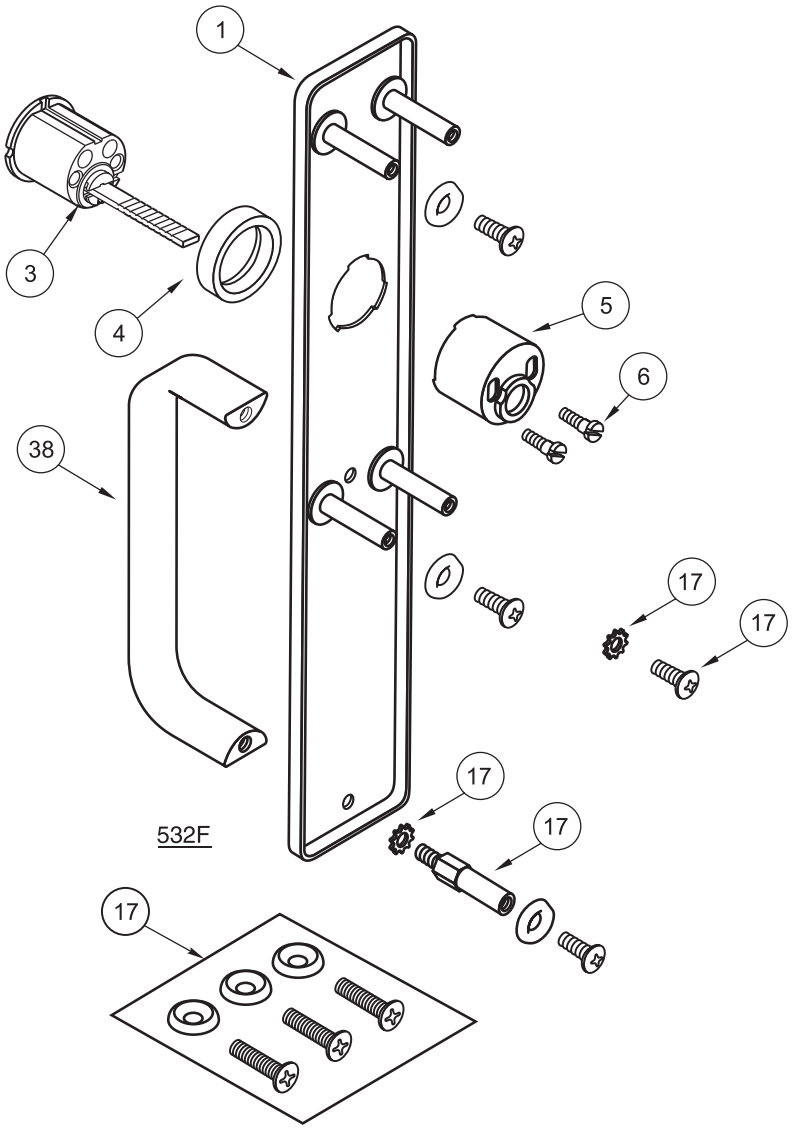
(Passage) Active T-Piece	Cylinder Controls T-Piece	Access by Key and T-Piece
F15	F05	F06
535F	533F	533F

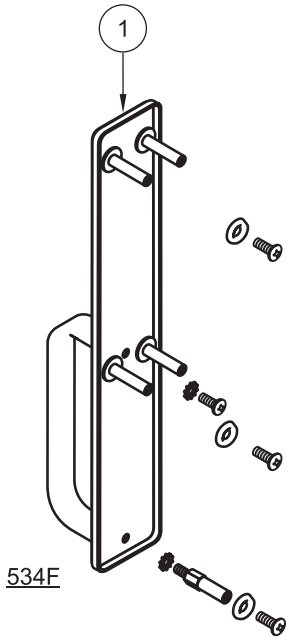
532F, 534F TRIM

ITEM	PART NO.	DESCRIPTION
1		Escutcheon Assembly
	60-7000-0047-FIN (Brass)	532F
	60-7000-0048-FIN (Bronze)	532F
	60-7000-0049-FIN (Stainless Steel)	532F
	60-7000-0050-FIN (Brass)	534F
	60-7000-0051-FIN (Bronze)	534F
	60-7000-0052-FIN (Stainless Steel)	534F

ITEM	PART NO.	DESCRIPTION
3	*See Chart Page 34*	Cylinder, Mortise or Rim
4	*See Chart Page 34*	Collar, Cylinder
5	60-2000-6206-082	Housing, Cylinder
6	60-7000-1235-048	Screw, Cylinder Mtg. (2)
17	81-9500-1466-FIN	Screw Packet, Mtg.
		Consists of the following:
	60-7000-1039-048	Threaded Post (1)
	81-0010-0664-FIN	1/4-20 x5/8” (1) RHPMS
	81-0013-0670-FIN	1/4-20 x1” (3) OHPMS
	99-9999-7154-FIN	Lockwasher (2)
	99-9999-7156-FIN	Washer #14 Finish (3)
38	60-0010-2639-FIN	Pull, Straight

532F, 534F TRIM





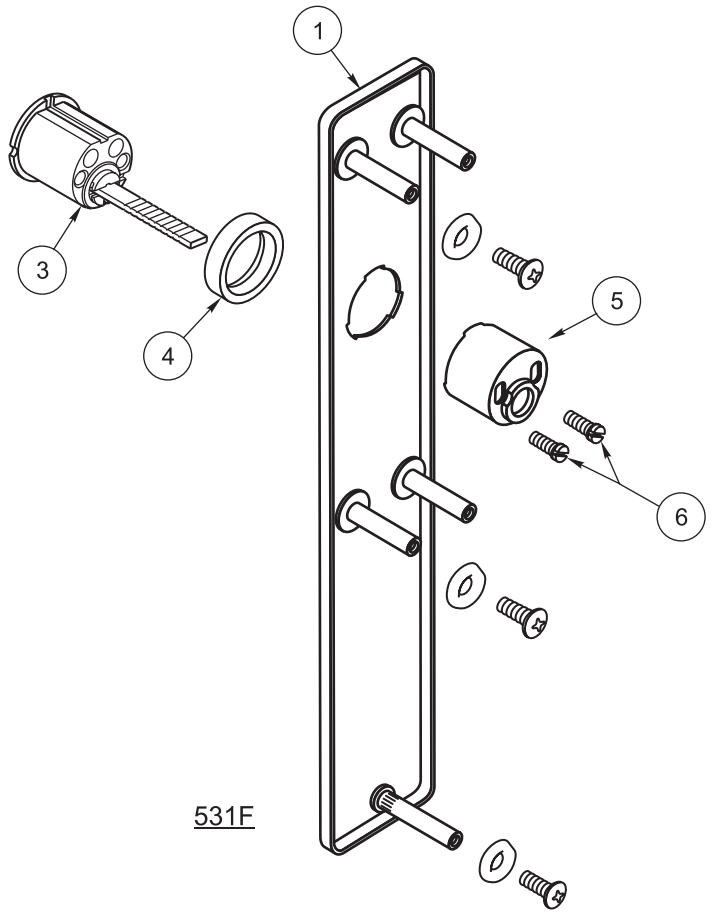
Dummy Full Plate	**Nightlatch Cylinder by Pull**
F02	**F03**
534F	532F

530F, 531F TRIM

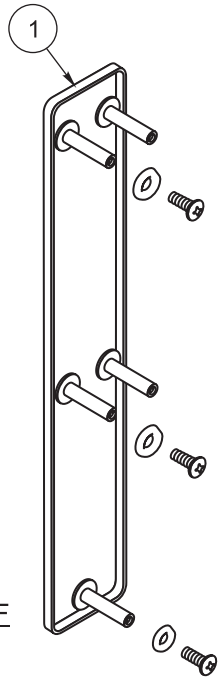
ITEM	PART NO.	DESCRIPTION
1		Escutcheon Assembly
	60-7000-0161-FIN (Brass)	531F
	60-7000-0162-FIN (Bronze)	531F
	60-7003-0163-FIN (Stainless Steel)	531F
	60-7000-0143-FIN	530F
3	*See Chart Page 34*	Cylinder, Mortise or Rim

ITEM	PART NO.	DESCRIPTION
4	*See Chart Page 34*	Collar, Cylinder
5	60-2000-6206-082	Housing, Cylinder
6	60-7000-1235-048	Screw, Cylinder Mtg. (2)
17	81-9500-1405-FIN	Screw Packet, Mtg. *Consists of the following:*
	81-0013-0670-FIN	Screw, 1/4-20 x 1 OPHMS (3)
	99-9999-7156-FIN	Washer, #14 Finish (3)

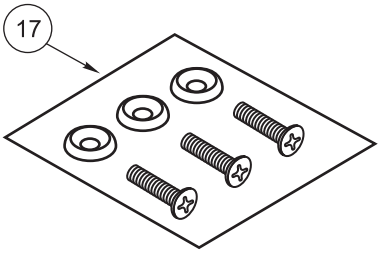
530F, 531F TRIM



531F



530F



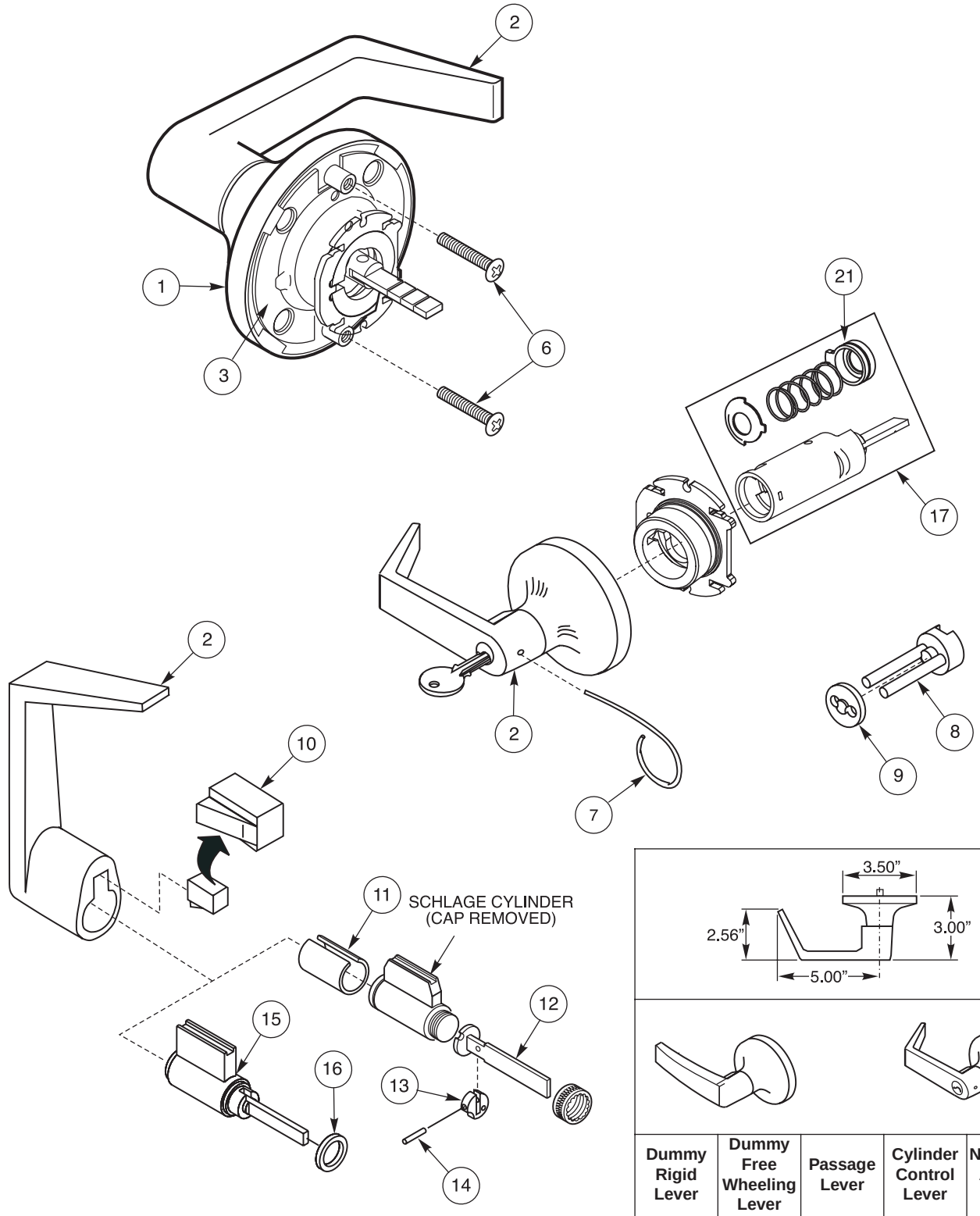
Dummy Blank Plate	**Nightlatch Access by Key**
F01	**F03**
530F	531F

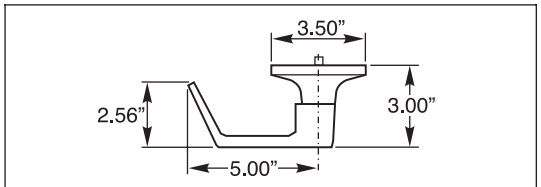
541F, 546F, 548F, 549F TRIM

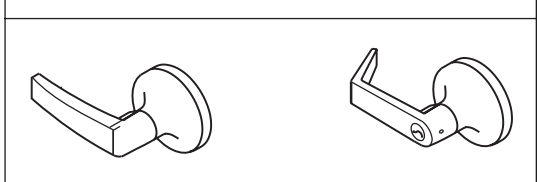
ITEM	PART NO.	DESCRIPTION
1	14-5401-2711-FIN	Rose Scalp
2		Lever
		Plain
	14-5401-6640-FIN	AU - Augusta
	14-5403-6650-FIN	MO - Monroe
	14-5403-6651-FIN	PB - Pacific Beach
		Cylinder
	14-5407-6038-FIN	AU - Augusta
	14-5407-6042-FIN	MO - Monroe
	14-5407-6062-FIN	PB - Pacific Beach
		Yale® I/C (6 Pin)
	14-5407-6021-FIN	AU - Augusta
	14-5407-6045-FIN	MO - Monroe
	14-5407-6065-FIN	PB - Pacific Beach
		Yale® I/C (7 Pin)
	14-5407-6022-FIN	AU - Augusta
	14-5407-6042-FIN	MO - Monroe
	14-5407-6066-FIN	PB - Pacific Beach
		Best®, Arrow®, Falcon® I/C (6 & 7 Pin)
	14-5407-6056-FIN	AU - Augusta
	14-5407-6048-FIN	MO - Monroe
	14-5407-6068-FIN	PB - Pacific Beach
		Corbin Russwin I/C (6)
	14-5407-6080-FIN	AU - Augusta
		Medeco®, ASSA® I/C (6)
	14-5407-6028-FIN	AU - Augusta

ITEM	PART NO.	DESCRIPTION
3	14-5407-0108-FIN	Rose Support Assembly
6	81-0015-0580-036	Screw, 10-32 x 2 PTHMS (2)
7	14-5407-1102-000	Tool, Lever Removal
8		Driver & Rod Assembly
	14-5407-0060-000	Yale®
	14-5407-0161-048	Best®, Arrow®, Falcon® I/C (Obsolete)
		Schlage®, Medeco®/ASSA®, etc from 5400LN Parts Manual
9	14-5407-2053-000	Spacer (Obsolete)
10	14-5407-9034-999	Pad, Retainer
11	14-5407-1101-048	Sleeve
12	14-5407-0460-048	Bar, Connecting (Schlage)
13	14-5407-1036-048	Cam, Cylinder
14	99-9999-3942-999	Pin, Roll
15	*See Chart Page 34*	Cylinder
16	14-5407-9201-048	Spacer, Cylinder
17		Spindle Assembly
	14-5407-0161	546F
	14-5407-0166	541F
21	14-5401-1906-048	Pawl

541F, 546F, 548F, 549F TRIM







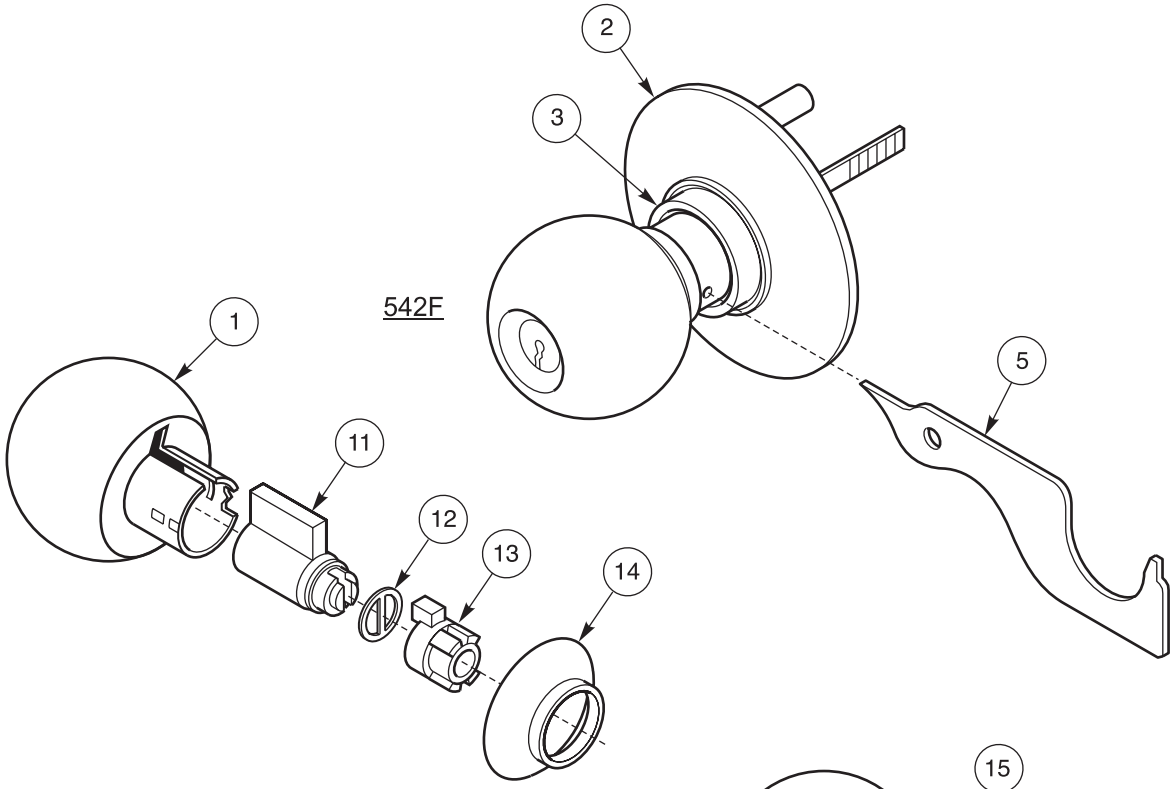
Dummy Rigid Lever	Dummy Free Wheeling Lever	Passage Lever	Cylinder Control Lever	Nightlatch Access by Key
F02	**F02**	**F14**	**F08**	**F03**
549F	548F	548F	546F	541F

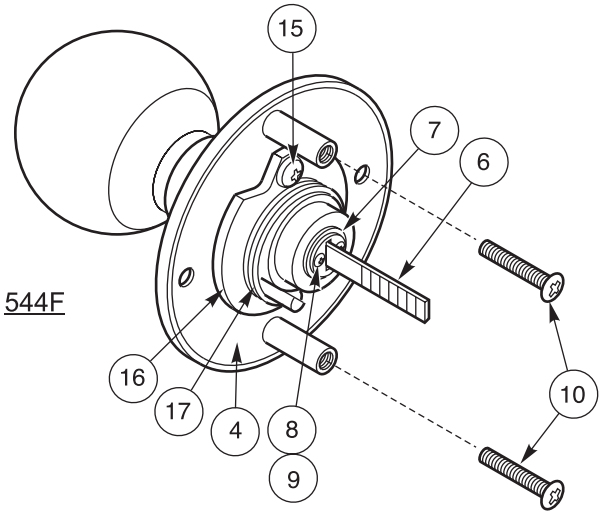
542F, 544F TRIM

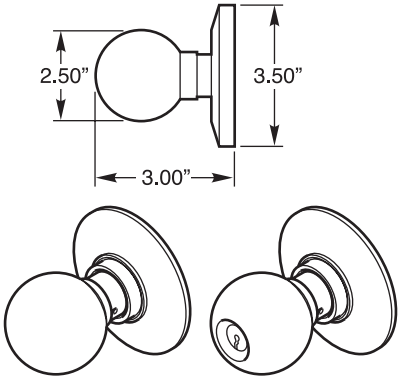
ITEM	PART NO.	DESCRIPTION
1	 60-2000-X079-FIN 14-5301-X638-FIN	Knob, CA 542F 544F
2	14-5401-X077-FIN	Rose
3	14-5755-X004-FIN	Nut, Rose
4	60-2100-0022-080	Plate, Mounting
5	14-5400-0036-048	Tool, Knob Removal
6	34-1147-1003-048	Tailpiece
7	60-2000-1207-059	Retainer
8	81-0610-0154-036	Screw, Locking (2)
9	99-9999-7331-999	Washer, Lock (2)

ITEM	PART NO.	DESCRIPTION
10	81-0015-0576-036	Screw, Mounting (2)
11	*See Chart Page 34*	Cylinder
12	60-2000-1194-059	Shield
13	60-2000-6192-082	Insert
14	14-5301-X664-FIN	Cap, Trim
15	81-0014-0504-036	Screw, 10-24 x 1/4 PPHMS (2)
16	60-2000-0018-048	Spindle Assembly
17	60-2000-1092-999	Spring

542F, 544F TRIM







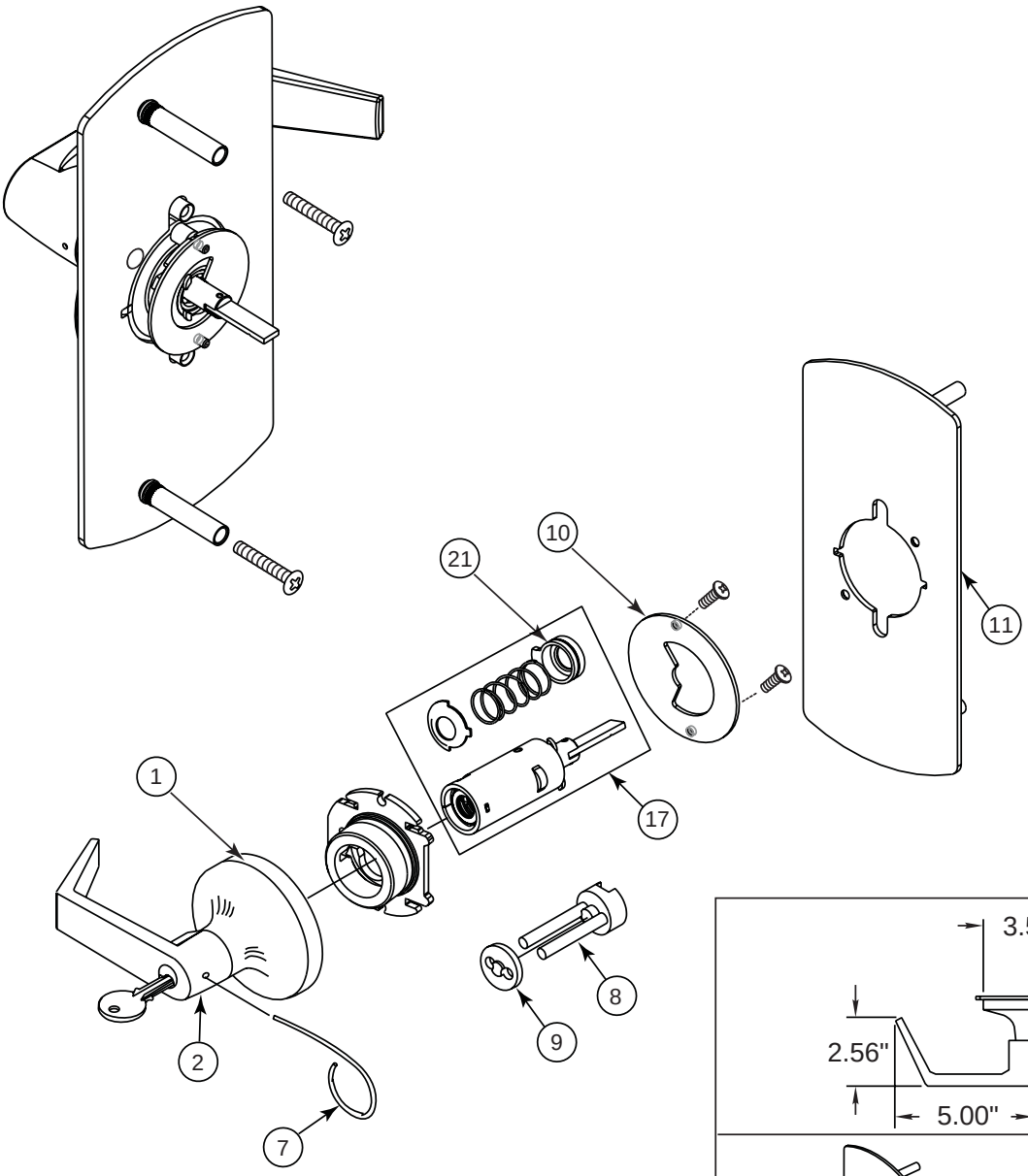
(DT) Free Wheeling Lever	Passage Knob	Cylinder Control Knob
F02	**F14**	**F08**
544F	544F	542F

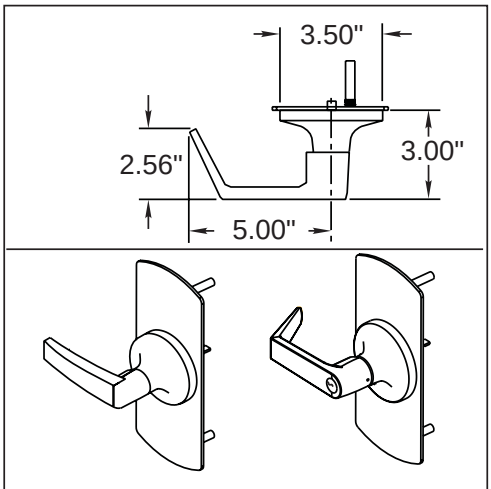
581F, 586F, 588F, 589F TRIM

ITEM	PART NO.	DESCRIPTION
1	14-5401-2711-FIN	Rose Scalp
2		Lever
		Plain
	14-5401-6640-FIN	AU - Augusta
	14-5403-6650-FIN	MO - Monroe
	14-5403-6651-FIN	PB - Pacific Beach
		Cylinder
	14-5407-6038-FIN	AU - Augusta
	14-5407-6042-FIN	MO - Monroe
	14-5407-6062-FIN	PB - Pacific Beach
		Yale® I/C (6 Pin)
	14-5407-6021-FIN	AU - Augusta
	14-5407-6045-FIN	MO - Monroe
	14-5407-6065-FIN	PB - Pacific Beach
		Yale® I/C (7 Pin)
	14-5407-6022-FIN	AU - Augusta
	14-5407-6042-FIN	MO - Monroe
	14-5407-6066-FIN	PB - Pacific Beach
		Best®, Arrow®, Falcon® I/C (6 & 7 Pin)
	14-5407-6056-FIN	AU - Augusta
	14-5407-6048-FIN	MO - Monroe
	14-5407-6068-FIN	PB - Pacific Beach
		Corbin Russwin I/C (6)
	14-5407-6080-FIN	AU - Augusta
		Medeco®, ASSA® I/C (6)
	14-5407-6028-FIN	AU - Augusta

ITEM	PART NO.	DESCRIPTION
3	14-5407-0108-FIN	Rose Support Assembly *(See Page 21)*
7	14-5407-1102-000	Tool, Lever Removal
8		Driver & Rod Assembly
	14-5407-0060-000	Yale®
	14-5407-0161-048	Best®, Arrow®, Falcon® I/C (Obsolete)
		Schlage, Medeco®/ASSA®, etc. from 5400LN Parts Manual
9	14-5407-2053-000	Spacer (Obsolete)
10	60-7000-1546-048	Retainer Plate
11	60-7000-0155-078	Escutcheon
17		Spindle Assembly
	14-5407-0161	586F
	14-5407-0166	581F
21	14-5401-1906-048	Pawl

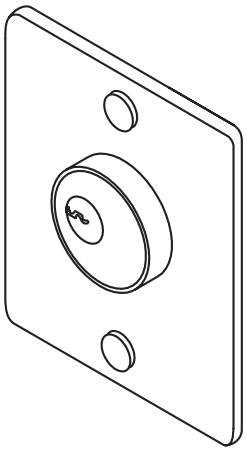
581F, 586F, 588F, 589F TRIM





Dummy Rigid Lever	Dummy Free Wheeling Lever	Passage Lever	Cylinder Control Lever	Nightlatch Access by Key
F02	F02	F14	F08	F03
589F	588F	588F	586F	581F

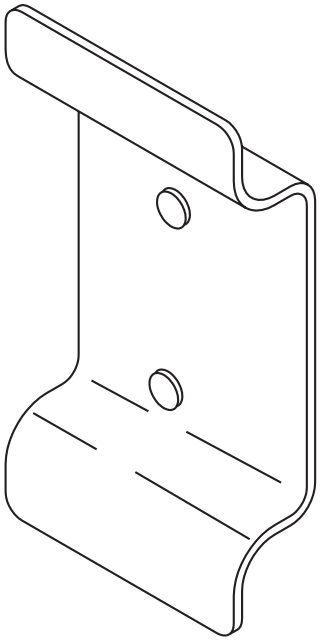
210 SERIES TRIM



Nightlatch Access by Key

60-2100-0090-FIN

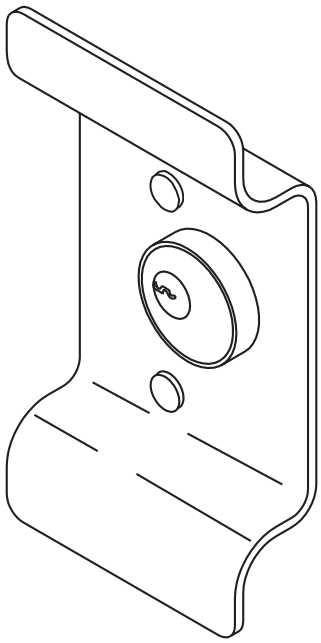
213F



Dummy Trim Pull Plate

60-2100-0020-FIN

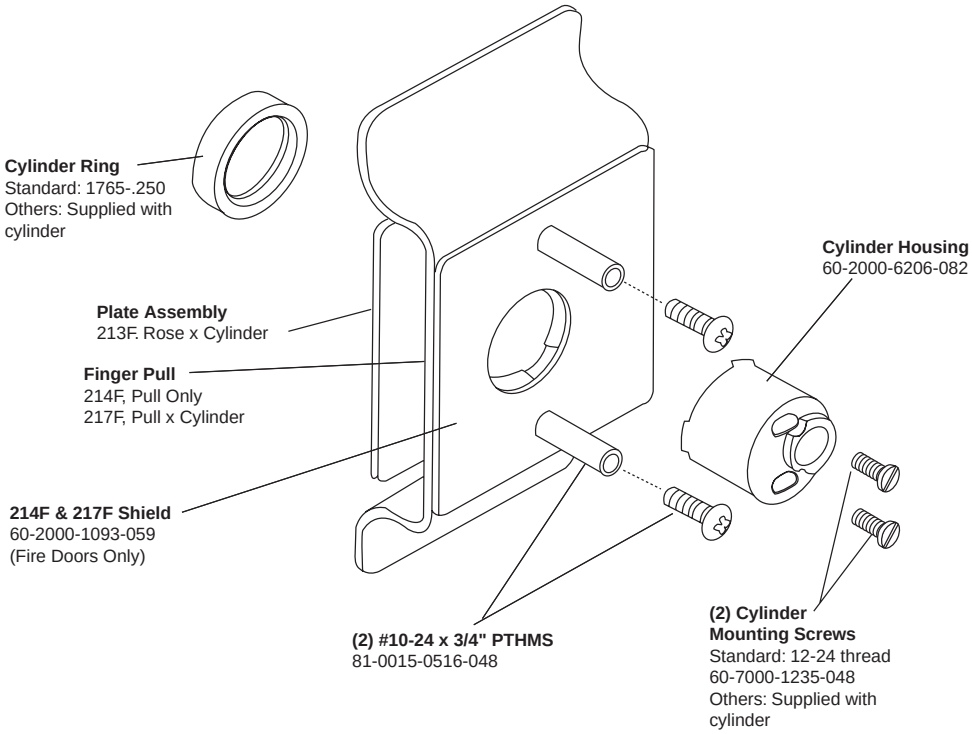
214F



Night Latch Cylinder by Pull

60-2100-0021-FIN

217F



LEVERS & KNOBS

AR Arcadia Projection: 3-1/16" (78mm) Lever assembly: RHR 60-7000-0097-FIN LHR 60-7000-0098-FIN	**AU** Augusta Projection: 2-5/16" (59mm) Lever assembly: 60-7000-0095-FIN	**CR** Carmel Projection: 2-7/8" (73mm) Lever assembly: 60-7000-0140-FIN	**JN** Jefferson Projection: 2-3/8" (60mm) Lever assembly: 60-7000-0093-FIN
MO Monroe Projection: 2-3/16" (71mm) Lever assembly: 60-7000-0239-FIN	**PB** Pacific Beach Projection: 2-3/4" (70mm) Lever assembly: 60-7000-0240-FIN	**PN** Pinehurst Projection: 2-7/8" (73mm) Lever assembly: 60-7000-0198-FIN	**VI** Virginia Projection: 2-3/4" (70mm) Lever assembly: 60-7000-0236-FIN
BR Brandywine Projection: 2-11/16" (68mm) Knob assembly: 60-7000-0064-FIN	**CO** Copenhagen Projection: 3-1/8" (79mm) Knob assembly: 60-7000-0062-FIN	**LF** Litchfield Projection: 2-1/2" (64mm) Knob assembly: 60-7000-0060-FIN	**CA*** Carolina Projection: 2-15/16" (75mm) Knob assembly: 542F 60-2000-X079-FIN 544F 14-5301-X638-FIN

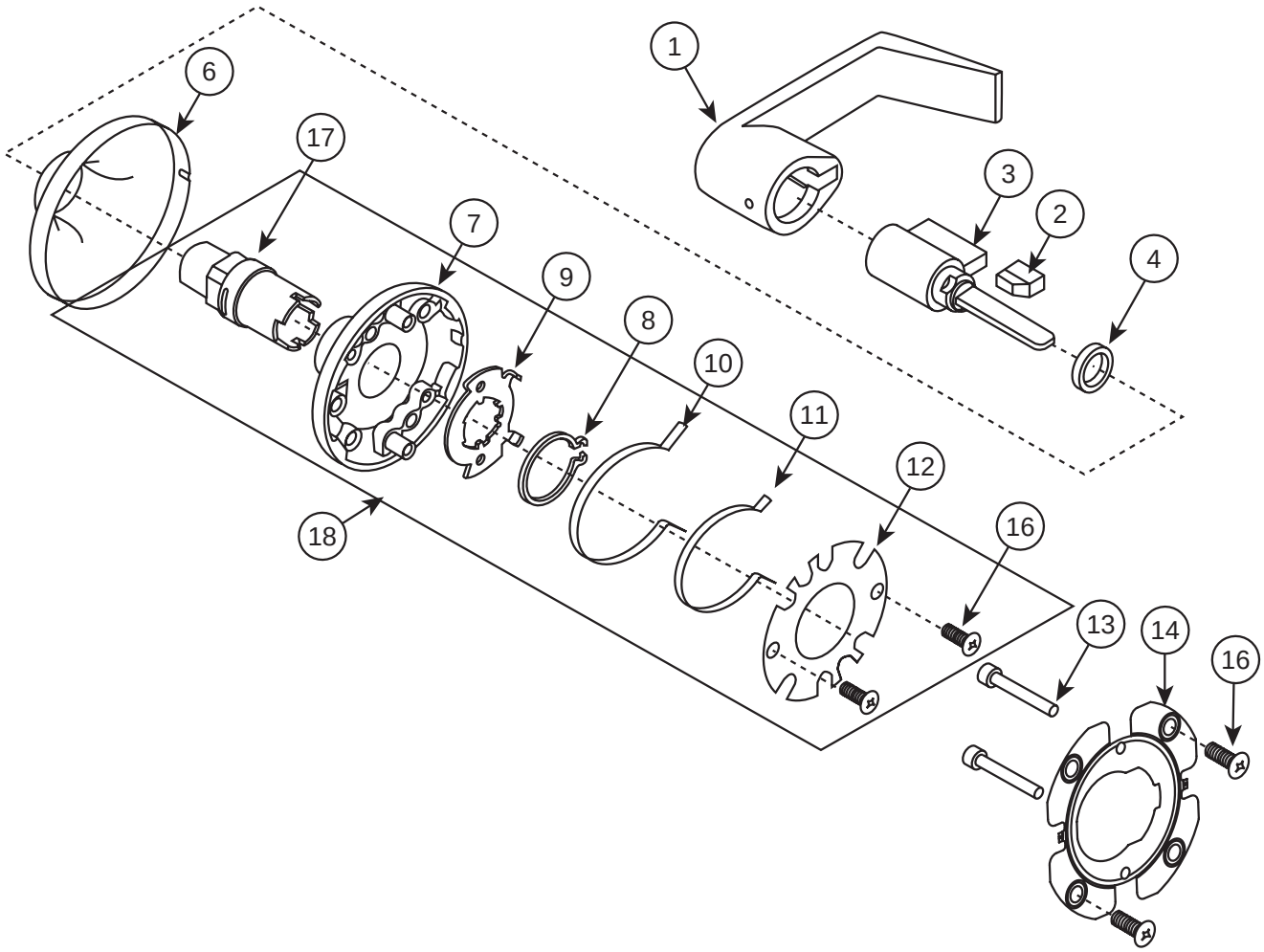
***Note: CA knob available for 540F series trim only.**

Knob and Lever Handle Assemblies Include:
- Spindle - P/N 60-7000-1243-059
- Roll Pin - P/N 99-9999-3979-023

OUTSIDE LEVER/ROSE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QUANTITY
1	*See Page 27*	Outside Lever Handle	1
2	14-5407-9034-999	Retainer Spring Pad	1
3	1802-FIN-KEYWAY	Cylinder Assembly (Specify finish, see Page 2, and keyway)	1
4	14-5407-9201-999	Cylinder Spacer	1
6	14-5401-2711-FIN	Rose Scalp (Specify finish, see Page 2)	1
7	14-5401-6756-082	Outside Rose Support	1
8	14-5401-1619-000	Snap Ring	1
9	14-5401-1624-048	Stop Plate	1
10	14-5401-1641-999	Lever Spring - Outside	1
11	14-5401-1642-999	Lever Spring - Inside	1
12	14-5401-1757-048	Cover	1
13	14-5401-1410-048	Pin	2
14	14-5401-1623-048	Outside Rose Plate	1
16	81-3811-0406-048	Screw #8-32 x 5/16” PHFH Trilobe	4
17	14-5407-0100-048	Removable Handle Shank/Retainer Assembly	1
18	14-5407-0108-048	Outside Rose/Shank Assembly	1

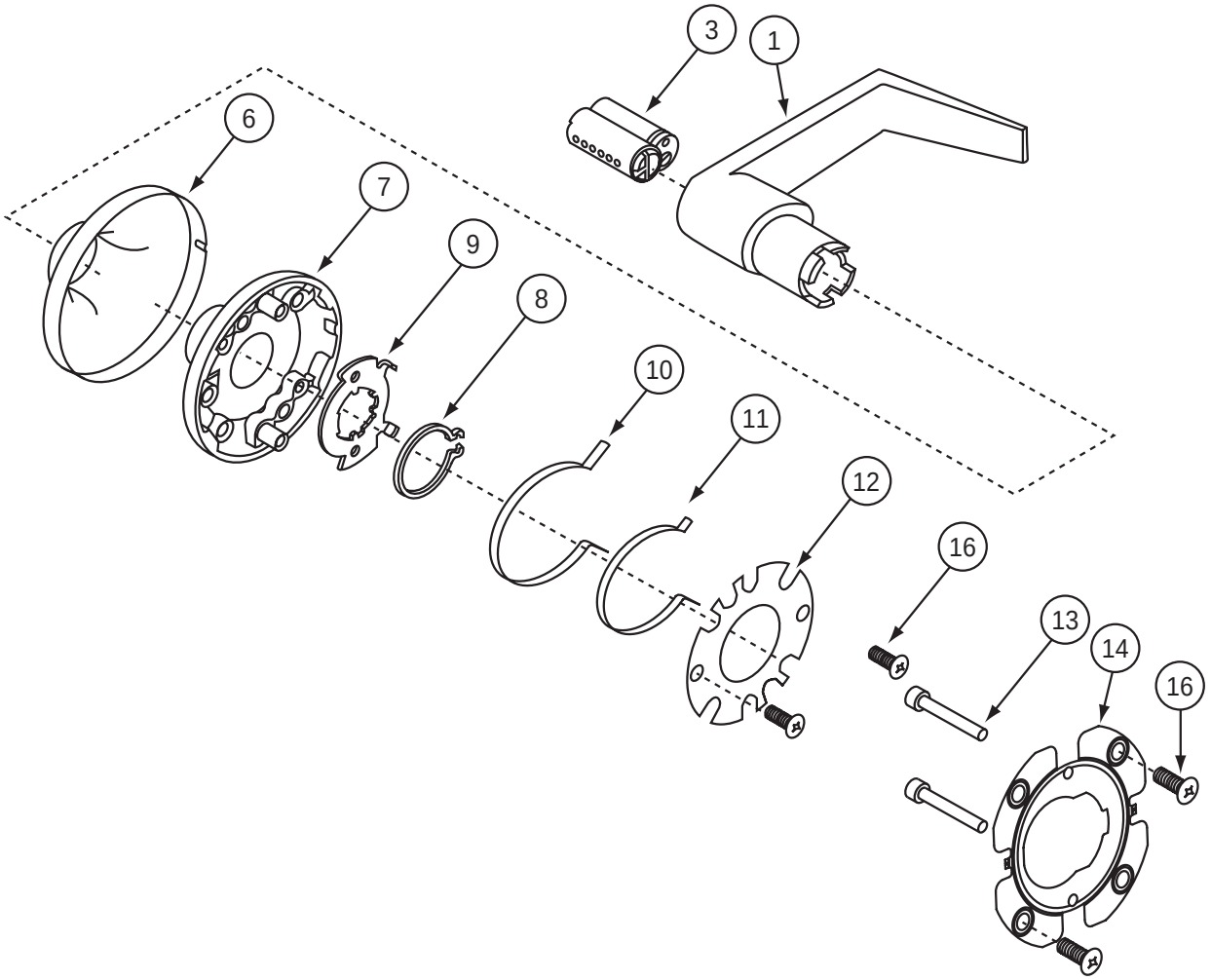
OUTSIDE LEVER/ROSE ASSEMBLY



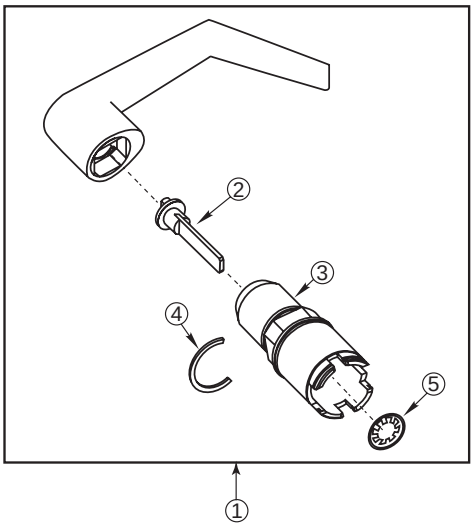
OUTSIDE LEVER/ROSE ASSEMBLY (INTERCHANGEABLE CORE)

ITEM	PART NO.	DESCRIPTION	QUANTITY
1	*See Page 27*	Outside Lever Handle	1
3	1210-FIN-KEYWAY	Cylinder Assembly (Specify finish, see Page 2, and keyway)	1
6	14-5401-2711-FIN	Rose Scalp (Specify finish, see Page 2)	1
7	14-5401-6756-082	Outside Rose Support	1
8	14-5401-1619-000	Snap Ring	1
9	14-5401-1624-048	Stop Plate	1
10	14-5401-1641-999	Lever Spring - Outside	1
11	14-5401-1642-999	Lever Spring - Inside	1
12	14-5401-1757-048	Cover	1
13	14-5401-1410-048	Pin	2
14	14-5401-1623-048	Outside Rose Plate	1
16	81-3711-0406-048	Screw #8-32 x 5/16” PHFH Trilobe	4

OUTSIDE LEVER/ROSE ASSEMBLY (INTERCHANGEABLE CORE)



INTERCHANGEABLE CORE LEVER ASSEMBLIES



Yale® 6-Pin

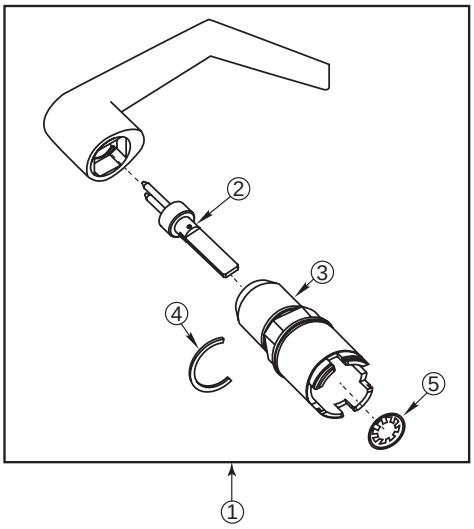
ITEM	PART NO.	DESCRIPTION
1	14-5407-0076-FIN*	AU Lever Assembly
	14-5407-0019-FIN*	MO Lever Assembly
	14-5407-0030-FIN*	PB Lever Assembly
2	—	Cam and Connecting Bar Assembly
3	—	Shank
4	—	Retainer Shank
5	—	Retaining Ring

**Sold as an Assembly only.*

Yale® 7-Pin

ITEM	PART NO.	DESCRIPTION
1	14-5407-0077-FIN*	AU Lever Assembly
	14-5407-0021-FIN*	MO Lever Assembly
	14-5407-0031-FIN*	PB Lever Assembly
2	—	Cam and Connecting Bar Assembly
3	—	Shank
4	—	Retainer Shank
5	—	Retaining Ring

**Sold as an Assembly only.*

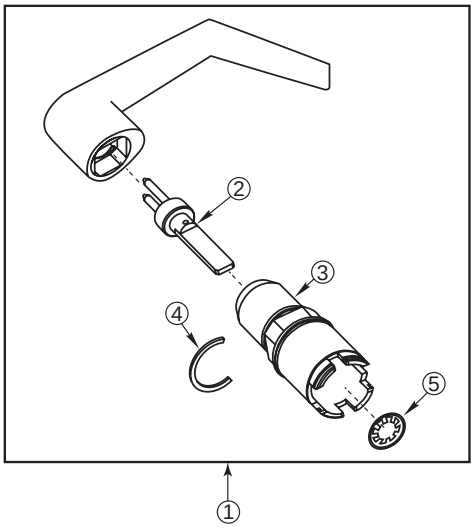


Corbin Russwin

ITEM	PART NO.	DESCRIPTION
1	14-5407-0141-FIN*	AU Lever Assembly
	14-5407-0906-FIN*	PB Lever Assembly
2	—	Cam and Connecting Bar Assembly
3	—	Shank
4	—	Retainer Shank
5	—	Retaining Ring

**Sold as an Assembly only.*

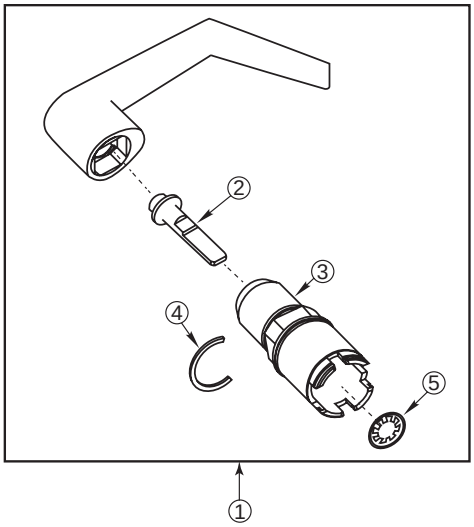
INTERCHANGEABLE CORE LEVER ASSEMBLIES



Best®

ITEM	PART NO.	DESCRIPTION
1	14-5407-0040-FIN*	AU Lever Assembly
	14-5407-0041-FIN*	MO Lever Assembly
	14-5407-0042-FIN*	PB Lever Assembly
2	—	Cam and Connecting Bar Assembly
3	—	Shank
4	—	Retainer Shank
5	—	Retaining Ring

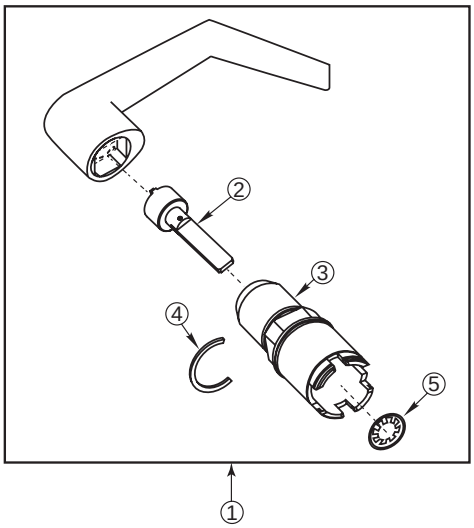
**Sold as an Assembly only.*



Schlage®

ITEM	PART NO.	DESCRIPTION
1	14-5407-0904-FIN*	AU Lever Assembly
	14-5407-0905-FIN*	PB Lever Assembly
2	—	Connecting Bar
3	—	Shank
4	—	Retainer Shank
5	—	Retaining Ring

**Sold as an Assembly only.*

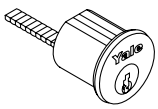


Medeco®, ASSA®

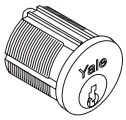
ITEM	PART NO.	DESCRIPTION
1	14-5407-0078-FIN*	AU Lever Assembly
2	—	Connecting Bar
3	—	Shank
4	—	Retainer Shank
5	—	Retaining Ring

**Sold as an Assembly only.*

CYLINDERS

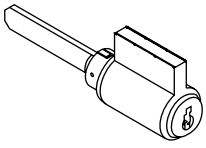
			Application	Cylinder(s)	Description	Cylinder Collar	Mounting Screws
Rim Cylinder	**Standard Escutcheon Trim 520F/530F Series** Rim Cylinders		2100/2100F Rim 2110/2110F SVR	1109 / 5109 6-pin	Standard / Security	1765-.250	60-7000-1235-048
				U5109 6-pin	High Security	-----	60-7000-1235-048
				1109 / 5109 7-pin	Standard / Security	1765-.250	60-7000-1235-048
				U5109 7-pin	High Security	1766	60-7000-1235-048
				1709 6-pin	CMK Cylinder	1765-.656	34-2311-8738-048
				1709 7-pin	CMK Cylinder	1765-.656	34-2311-8738-048
				1193 / 5193 6-pin	Std. / Sec. I.C.	1765-.469	10-1193-1018-048
				1193 / 5193 7-pin	Std. / Sec. I.C.	1765-.656	10-1191-1018-048

Note: Mounting screw part numbers shown are the screws to mount the cylinder.

			Application	Cylinder(s)	Description	Cylinder Collar
Mortise Cylinder	**Keyed Removable Mullions KRM100/100F**		2100/2100F Rim	2153/5153*, 6 or 7-pin, 1-1/8" (29mm)	Standard / Security	-----
				2196 / 5196 6-pin	Std. I.C. / Sec. I.C.	1765-.250
				2197 / 5197 7-pin	Std. I.C. / Sec. I.C.	1765-.250
	Alarm Kit		2100/2100F Rim 2110/2110F SVR	2197, 7-pin 1-11/16" (42mm)	Std. I.C. 7-pin	1765 - .594

As with exit device trim you must order a cylinder to go with a keyed removable mullion. The Yale® keyed removable mullion accepts a standard 6-pin 2153 mortise cylinder with cam #2160. Other cylinders are optional.

***U5153 6 and 7-pin cylinders cannot be used with a keyed removable mullion.**

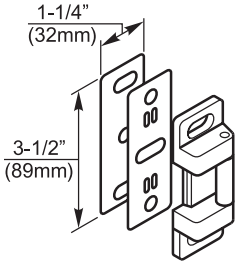
		Application	Cylinder(s)	Description
Knob or Leverset Trim 540F/580F Series Trim Keyed trim uses Yale® cylindrical lock cylinders.		2100/2100F Rim 2110/2110F SVR	1801	6-pin Knob Cyl. (Std.)
			1802	6-pin Lever Cyl. (Std.)
			1802A	7-pin Lever Cylinder
			1210	6-pin I.C. Lever Cylinder
			1220	7-pin I.C. Lever Cylinder
			5802	6-pin Security Lever Cyl.
			5802A	7-pin Security Lever Cyl.
			5210	6-pin I.C. Security Cyl.
			5220	7-pin I.C. Security Cyl.
			107S	Adaptor kit for Schlage® Cyl.
			"B" Trim Prefix	Trim with lever for Best®, Arrow® or Falcon® IC cylinder (specify 6 or 7-pin)
			"R" Trim Prefix*	Trim with lever for Corbin Russwin IC cylinder

***AU & PB levers only.**

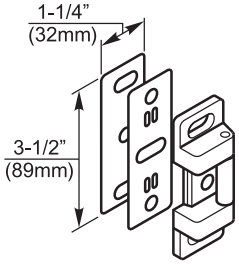
Yale® KeyMark® **Refer to separate catalog section for availability.**

STRIKES

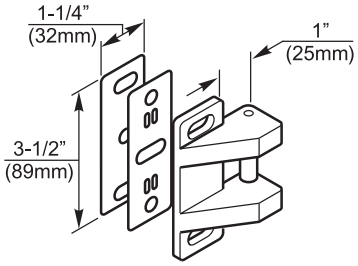
Rim Devices



757
Standard
on 2100

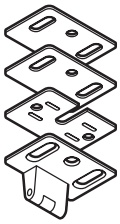


757F
Standard
on 2100F



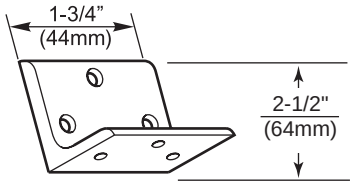
793
Optional strike for double door applications without a mullion
on 2100

Vertical Rod Devices

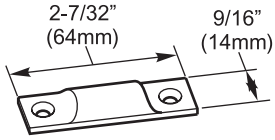


1-9/16" x 15/16"
(40mm x 24mm)

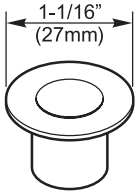
791
Standard
Top Strike
on 2110, 2110F



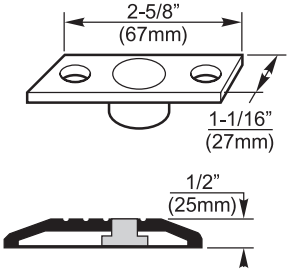
797
Bracket for SVR Top Strike
in Flush Transom Opening
on 2110F



702
Floor Strike for optional
bottom Pullman Latch



790
Standard Bottom Strike
on 2110, 2110F

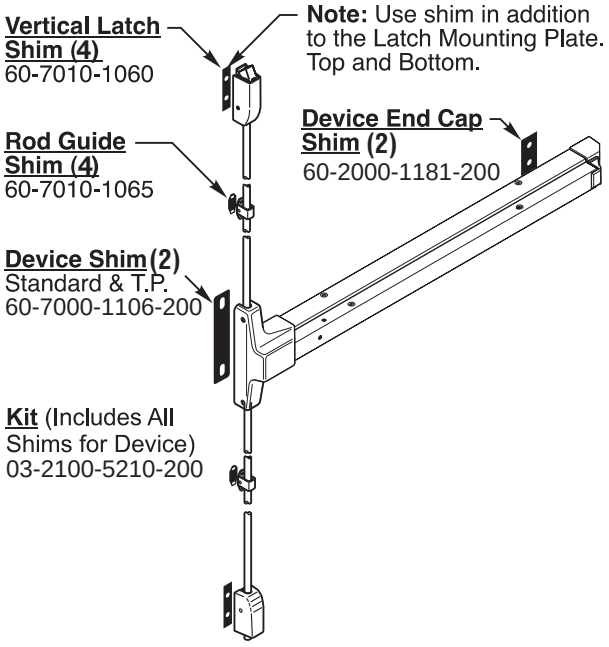


794
Optional Floor Strike for fire openings using saddle threshold, or flush floor mount. Must use for fire openings with thesholds.

ACCESSORIES

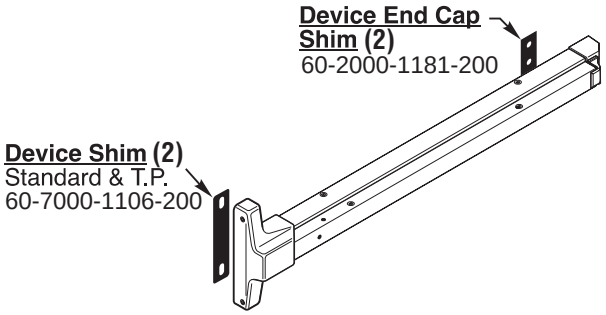
Shim Kits

224
For 2110/2110F Surface Vertical Rod Exit Device



223
For 2110/2110F Rim Exit Device

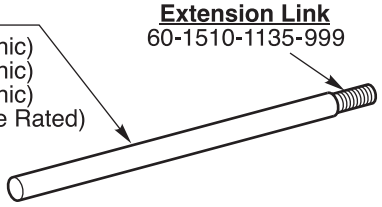
Kit (Includes All Shims for Device)
03-2100-5200-200



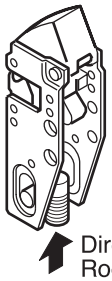
Surface Vertical Rod Extension Kits

Used to extend the height of standard length rods for 2100/2110F Series exit devices.

Rod Extension Assembly
2" 60-1510-0280-FIN (Panic)
6" 60-1510-0277-FIN (Panic)
12" 60-1510-0278-FIN (Panic)
12" 60-1510-0282-FIN (Fire Rated)



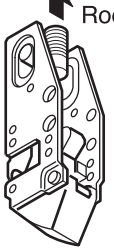
Optional Vertical Latches



Top Pullman Latch
(Less Hold Back Feature For Use with Electric Strikes)
60-7010-0055-999

Direction of Rod Travel

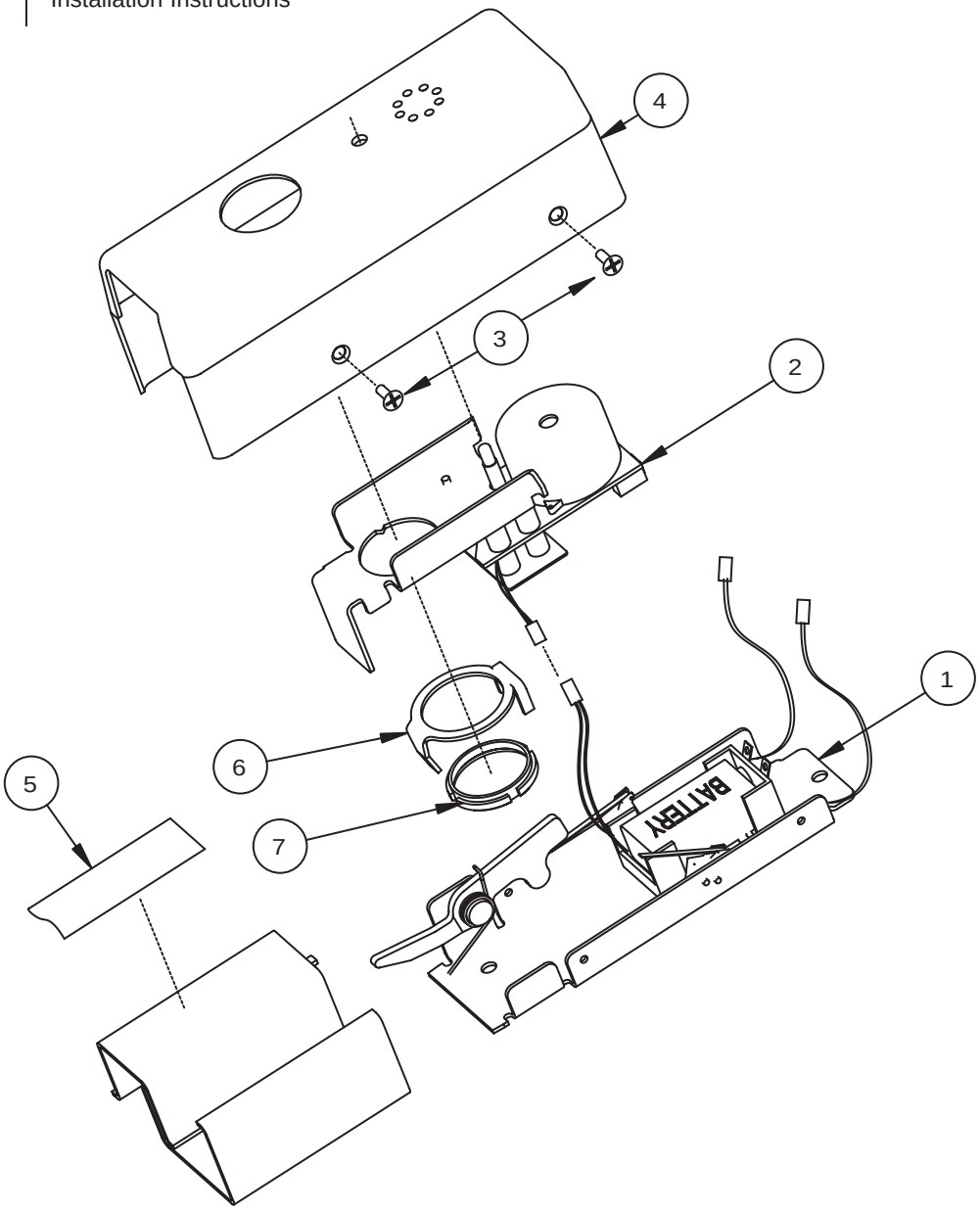
Direction of Rod Travel



Bottom Pullman Latch
(For Use with Latch Track Thresholds)
60-7010-0051-999

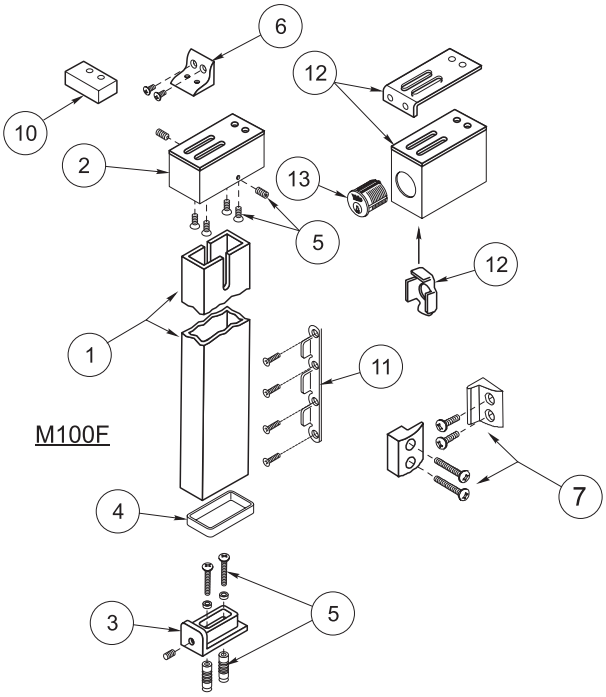
2116 ALARM KIT

ITEM	PART NO.	DESCRIPTION
1	60-2116-0005	Alarm Bracket Sub-Assembly
2	60-2116-0001	Alarm Housing Sub-Assembly
3	81-9500-1398	Screw Pack
4	60-2116-6001	Die Cast Cover
5	80-9401-0056	Alarm Label
6	60-7700-7214	Switch Activator
7	607700-2212	Cylinder Nut
—	80-9420-2116	Installation Instructions



MULLION PARTS

ITEM	PART NO.	DESCRIPTION
1		Mullion
	60-1500-1267-114	7' for M100(F)
	60-1500-1265-114	8' for M100(F)
	60-1500-1266-114	10' for M100(F)
2	60-1500-1283-078	Bracket, Upper Mounting
3		Bracket, Lower Mounting
	60-2000-1164-078	Panic/Fire Rated
4	60-2000-9158-999	Anchor Pad (Fire Rated)
5	81-9500-0351-000	Screw Packet contains:
	81-0011-0616-059	Screw #12-24 x 3/4" FHM-PH (4)
	81-6219-2708-059	Set Screw 5/16-18 x 3/8" (1)
	81-6419-2714-059	Set Screw, Half Dog 5/16-18 x 5/8" (2)
	60-7000-1324-048	Screw 1/4-20 x 3/4" RHM-PH (2)
	99-9999-7161-059	Lock Washer 1/4" (2)
	99-9999-6037-999	Masonry Anchor 1/4-20 (2)
6	81-9500-0371-078	Angle Bracket Packet contains:
		Angle Bracket (1)
		Screw #12-24 x 7/16" OHM-PH (2)
7	81-9500-1417-078	Stabilizer Kit (optional) contains:
		Bracket, Stabilizer (2)
		Stabilizer (2)
		Spacer, Stabilizer (4)
		Screw, #10-24 x 3/4" FHM-PH (4)
		Screw, #10-24 x 1" FHM-PH (4)
Not Shown	81-9500-1524-114	Parts Packet contains: Items 2, 3, 4, 5 and 11
Not Shown	81-9500-1523-FIN	Parts Packet contains: Items 7, 8 and 9
10	00-0000-3516-000	Spacer, Mullion
11	81-9500-1561-058	Door Bracket Packet contains:
	60-2000-1156-058	Bracket, Door (2)
	81-0011-0516-058	Screw, #10-24 x 3/4 FPHMS (8)
12	00-0000-3432-000	KRM150 Retro Fit Kit contains:
	60-1500-0150-078	Bracket, Top, Final Assembly
	60-1500-0153-078	Bracket Assembly, Mounting
	60-7000-1419-078	Shim, Mullion (2)
	60-7000-1413-048	Bracket, Cylinder Anti-Rotation
Not Shown	81-9500-1585-000	KRM150 Screw Pack contains:
	81-0011-0616-999	Mounting Screw, #12 x 24 x 3/4 FHPMS (4)
	60-7000-1413-048	Bracket Cylinder Anti-Rotation
	81-0014-0406-036	Bracket Mounting Screw 8-32 x 5/16"
	81-3711-0412-048	Cylinder Screw 8 x 32 x 1/2"
13	*See Page 34*	Cylinder, Mortise

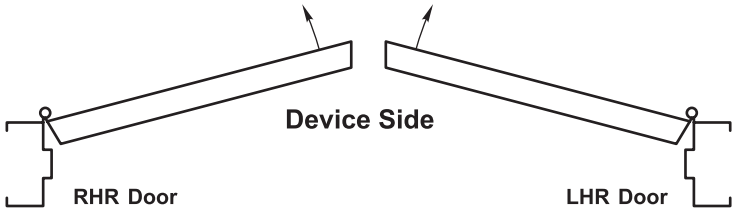


HANDING INSTRUCTIONS

Rim Devices

2100/2100F Series

These devices are non-handed.

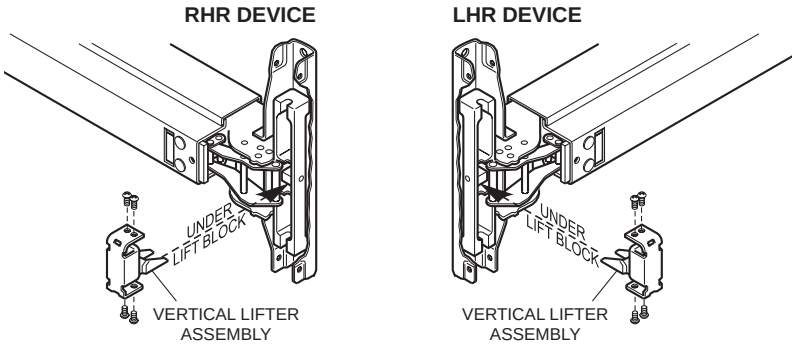


Surface Vertical Rod Devices

2110/2110F Series

Remove four screws and vertical lifter assembly. Turn device to opposite (180 degrees) orientation, insert lifter assembly and reinstall screws.

NOTE: Lifter must fit under lift block as shown.



HANDING INSTRUCTIONS

Lever Handle Trim

1. Remove cotter pin.
2. Remove castle nut.
3. Observe spring orientation:

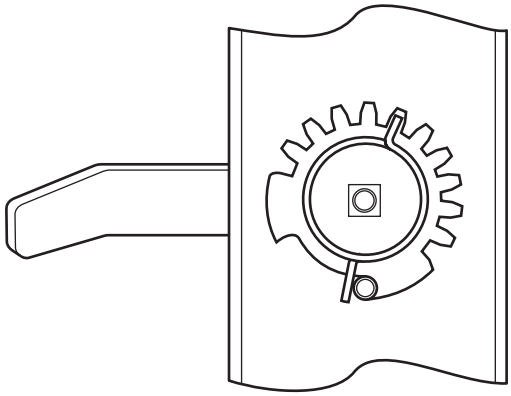
   LHR: Red spring (part # 60-7000-1225-999) Short lead is at 1 o'clock and long lead is to lever side of stump at 6 o'clock.

   RHR: Blue spring (part # 60-7000-1224-999) Short lead is at 11 o'clock and long lead is to lever side of stump at 6 o'clock.
4. Remove round housing, spring and spacer.
5. Note orientation of "gap" which governs rotation in gear and remove gear.
6. Rotate lever 180°.
7. Flip gear over and reinstall, observing proper gap orientation for new direction of rotation:

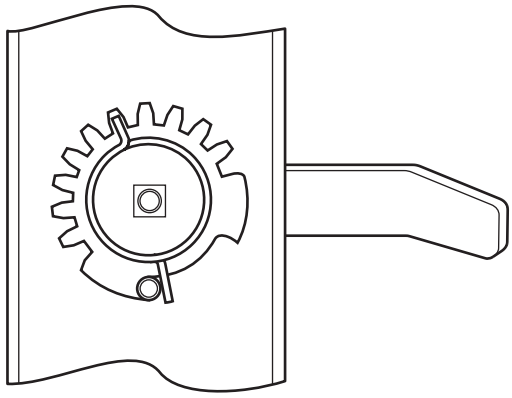
   LHR 6 - 8 o'clock

   RHR 4 - 6 o'clock
8. Install spring of opposite hand (color). Place spring around spindle with long lead against gear and to lever side of post. Place housing (gap side toward lever) over spring and spindle until square in housing begins to slide down on spindle. While applying downward pressure on housing, wind short lead of spring toward lever until housing snaps into place.
9. Replace spacer in housing. Spring, housing and spacer should now be oriented as indicated in step 3 above.

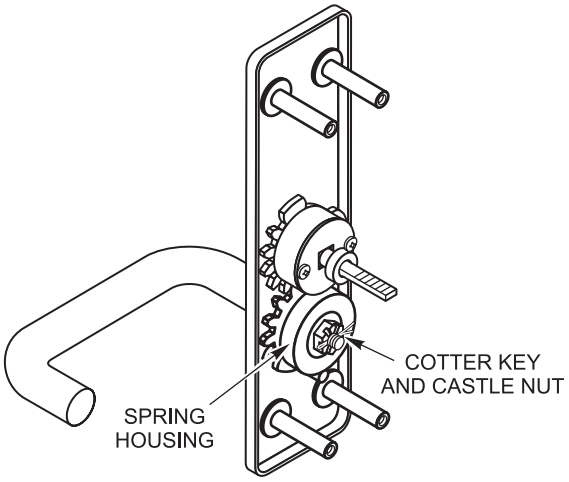
   Note: Housing gap will always be to the lever side and spring will be slightly preloaded when properly installed.
10. Be sure lever thimble is seated properly in escutcheon. Reinstall nut snugly, but do not over tighten. Lever should rotate freely.
11. Replace cotter pin.



RIGHT-HAND REVERSE (BLUE SPRING)



LEFT-HAND REVERSE (RED SPRING)

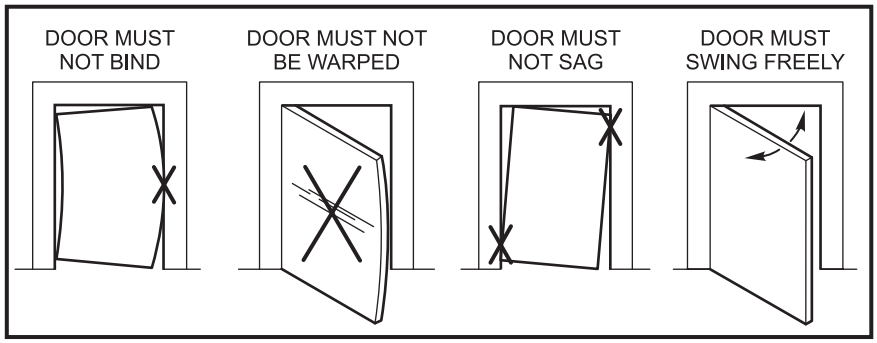


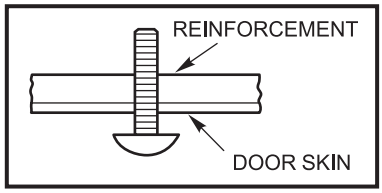
TROUBLESHOOTING GUIDE

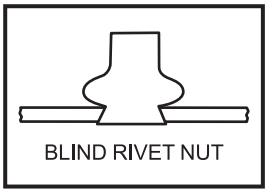
1. Many problems with the operation of exit devices are caused by factors other than the device itself. Among the most common is a misalignment or an improper fit of the door within the frame.

2. Another common source of problems is improper installation. Even if all cutouts and screw holes are properly located, exit devices must be securely fastened to properly reinforced doors. Hollow doors and frames with a structural thickness (metal skin plus reinforcement, or solid hardwood) must have at least three full screw threads to be considered reinforced.

3. Most problems with dogging occur on vertical rod devices. When the dogging function is hard to engage or will not work at all, the rods may be incorrectly adjusted, allowing the mechanism to bottom out. Readjust rods per the device instructions or as outlined on the previous pages.







NOTES

NOTES

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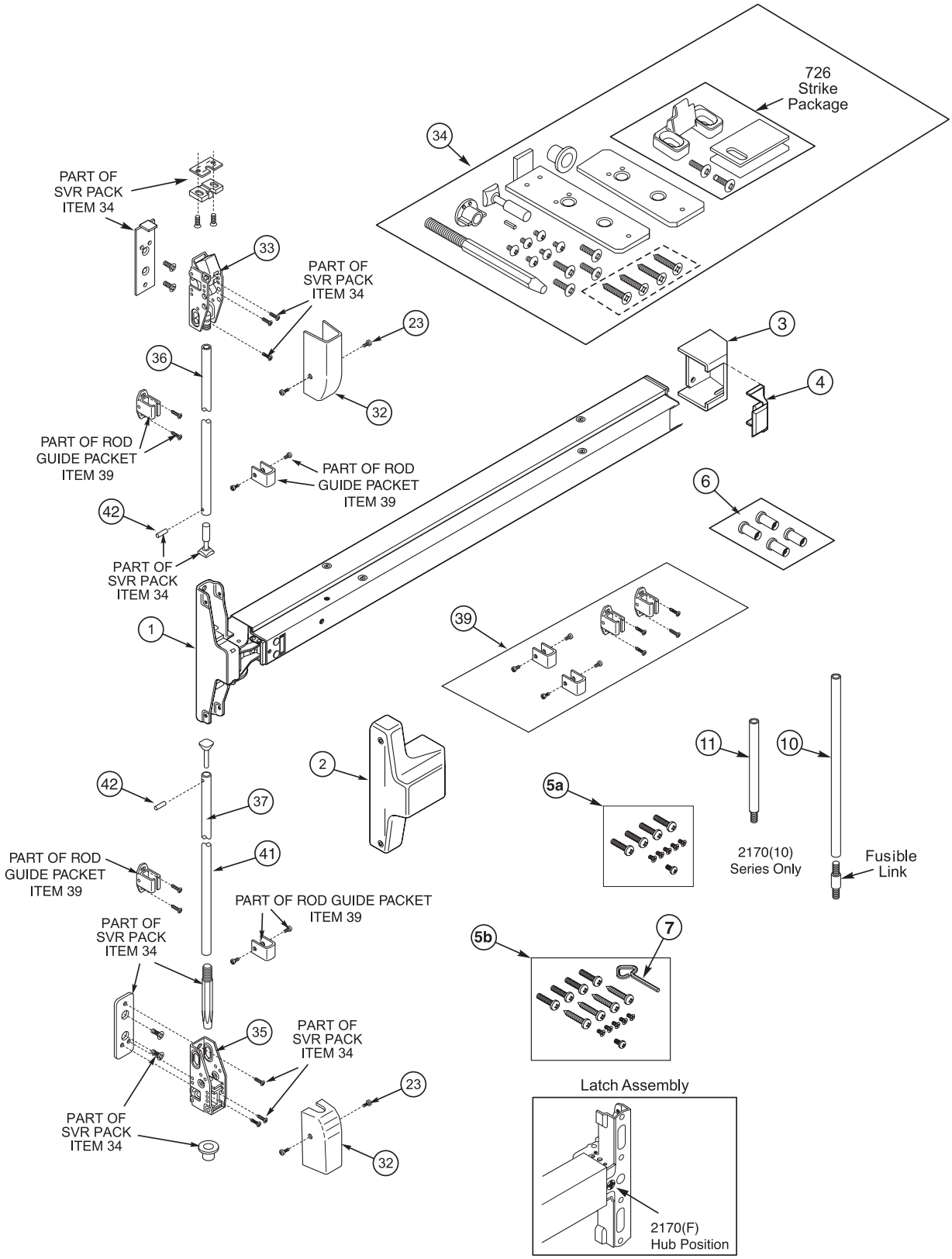
2170F SURFACE VERTICAL ROD

ITEM	PART NO.	DESCRIPTION
1		Latch Assembly
	60-2110-0002-048	2170, 2170F (Must Specify Hand)
2		Cover
	60-2110-6004-FIN	2170
	Not Available	2170F (UL)
3	60-2000-6179-FIN	Bottom End Cap
4	60-2000-6178-FIN	Top End Cap
5a	81-9500-1376-059	Mtg. Screw Pack (2170F)
5b	81-9500-1395-059	Mtg. Screw Pack (2170)
6	03-0080-5047-FIN	Sex Nut Pack (4) (2 packs) Fire Rated Only
7	60-7000-1131-036	Dogging Key
10	60-1510-0281-FIN	Rod Extension Assy., 24" (-10 Device Only)
11	60-1510-0278-FIN	Rod Extension Assy., 12" (-10 Device Only)
23	81-9500-1549-FIN	Screw Packet, Cover #8-32 x 5/16" UFPHMS (4)
32	60-7010-X040-FIN	Cover, Top & Bottom Latch

ITEM	PART NO.	DESCRIPTION
33		Top Latch
	60-7010-0049-999	2170
	60-7010-0050-999	2170F
34	81-9500-1562-000	SVR Pack
		Consists of the following:
	60-7110-1005-048	Top Mtg. Plate
	60-7010-1039-048	Bottom Mtg. Plate
	60-7010-1067-048	Top Rod Connector
	99-9999-4308-999	Rod Connecting Pin
	60-1500-6150-999	Drill Jig
	60-7010-1046-059	Floor Bolt
	60-7010-1055-200	Strike
	81-9500-1546-000	Latch Mounting Screw Pack
	81-3111-0676-048	Latch Mounting Screw (4) (Wood Door Panic)
	81-9500-1576-000	726 Top Strike Packet
35		Bottom Bolt Case
	60-7010-0054-000	2170
	60-7010-0053-000	2170F
36	60-2110-7006-FIN	Top Rod
37	60-7010-1025-059	Bottom Rod Connector
39	81-9500-1514-FIN	Rod Guide Packet
41	60-2110-7007-FIN	Bottom Rod
42	99-9999-4308-999	Spring Pin

2170F SURFACE VERTICAL ROD



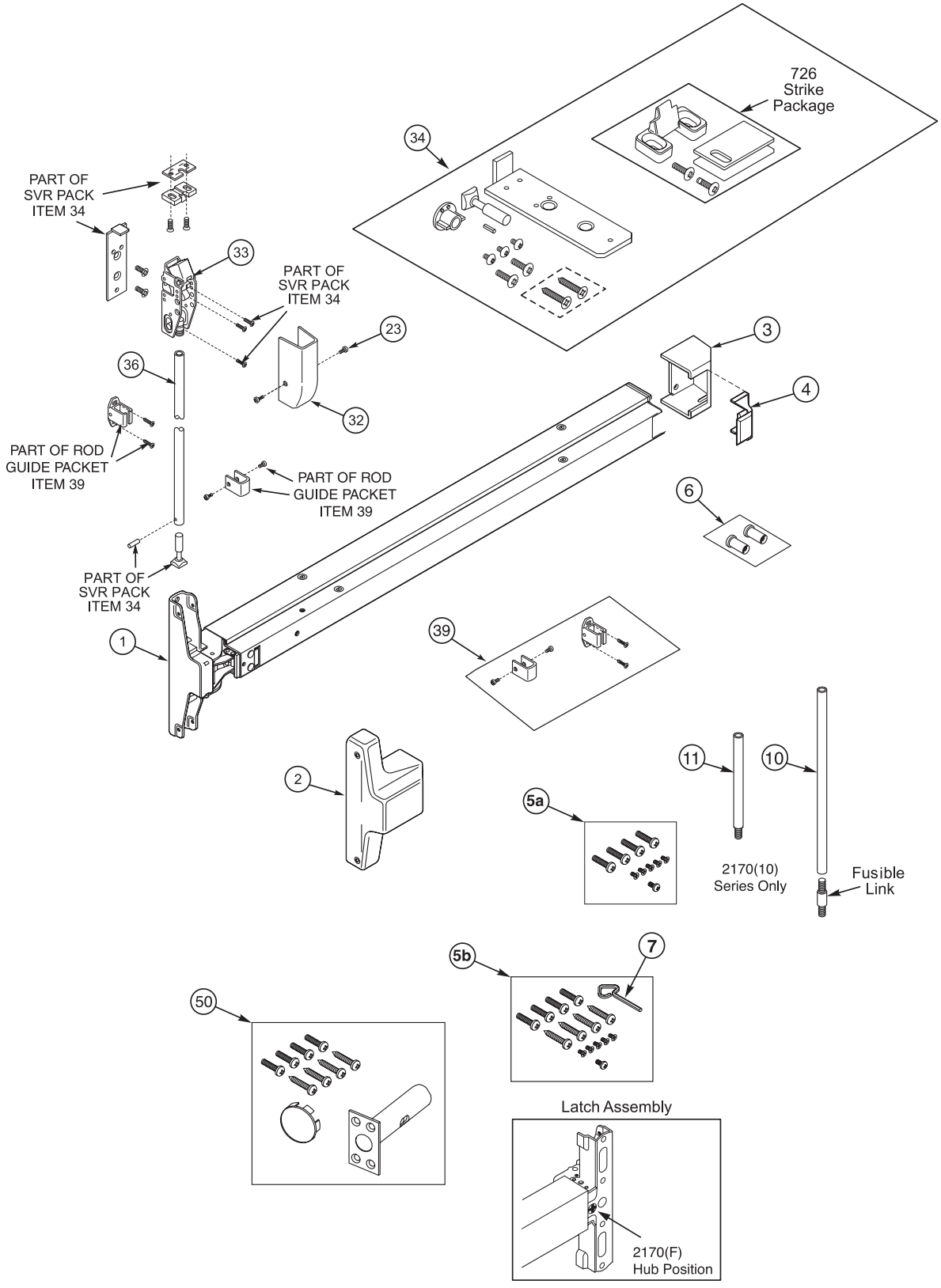
2170(F) LBR SURFACE VERTICAL ROD

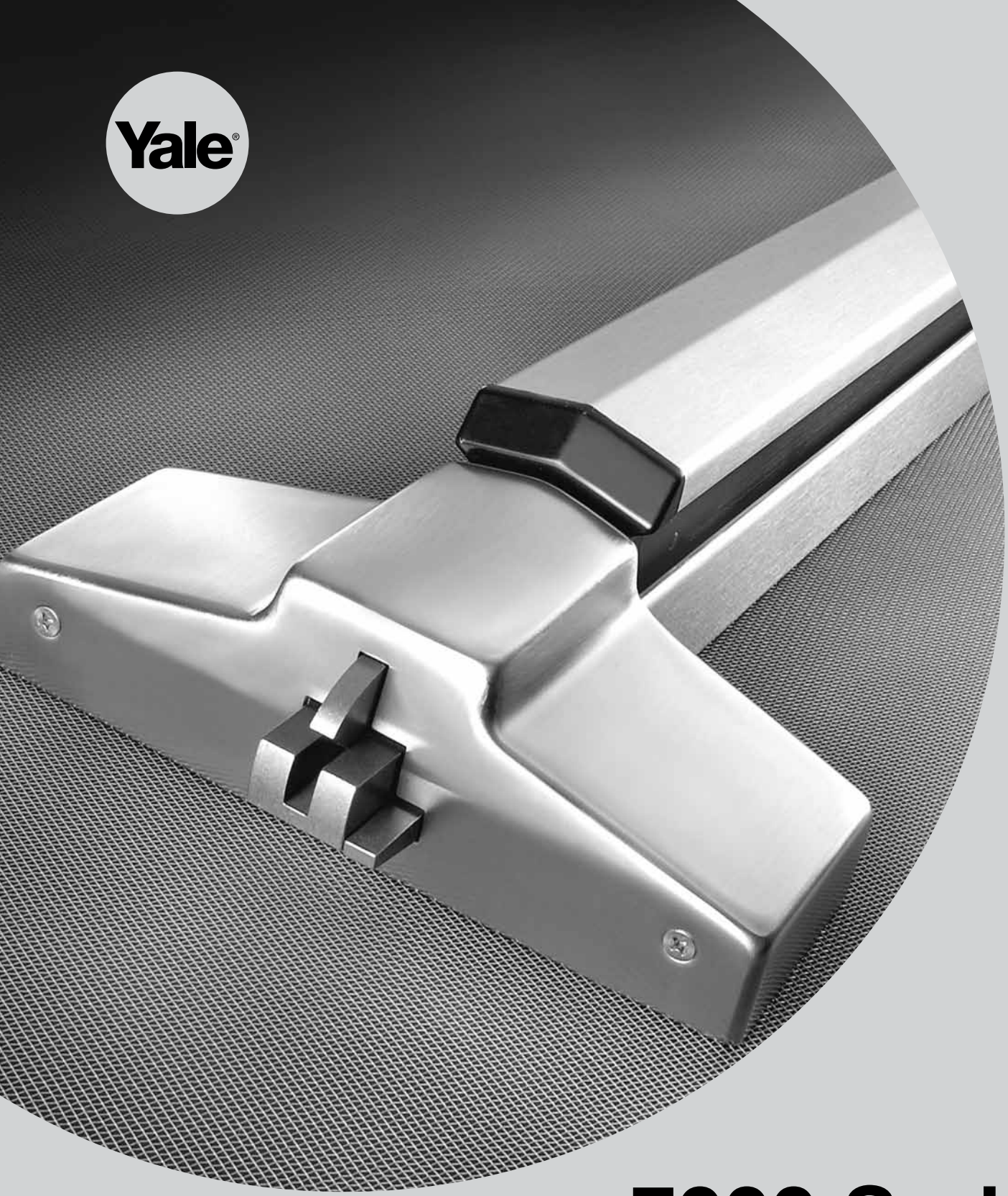
LESS BOTTOM ROD

ITEM	PART NO.	DESCRIPTION
1		Latch Assembly
	60-2110-0002-048	2170, 2170F (Must Specify Hand)
2		Cover
	60-2110-6004-FIN	2170
	Not Available	2170F (UL)
3	60-2000-6179-FIN	Bottom End Cap
4	60-2000-6178-FIN	Top End Cap
5a	81-9500-1376-059	Mtg. Screw Pack (2170F)
5b	81-9500-1395-059	Mtg. Screw Pack (2170)
6	03-0080-5047-FIN	Sex Nut Pack (4) Fire Rated Only
7	60-7000-1131-036	Dogging Key
10	60-1510-0281-FIN	Rod Extension Assy., 24" (-10 Device Only)
11	60-1510-0278-FIN	Rod Extension Assy., 12" (-10 Device Only)
23	81-9500-1549-FIN	Screw Packet, Cover #8-32 x 5/16" UFPHMS (4)
32	60-7010-X040-FIN	Cover, Top Latch

ITEM	PART NO.	DESCRIPTION
33		Top Latch
	60-7010-0049-999	2170
	60-7010-0050-999	2170F
34	81-9500-1562-000	SVR Pack
		Consists of the following:
	60-7110-1005-048	Top Mtg. Plate
	60-7010-1067-048	Top Rod Connector
	99-9999-4308-999	Rod Connecting Pin
	60-1500-6150-999	Drill Jig
	81-9500-1546-000	Latch Mounting Screw Pack
	81-3111-0676-048	Latch Mounting Screw (4) (Wood Door Panic)
	81-9500-1576-000	726 Top Strike Packet
36	60-2110-7006-FIN	Top Rod
39	81-9500-1514-FIN	Rod Guide Packet
50	81-9500-1584-000	Popper Packet (Fire Rated (F) only)

2170(F) LBR SURFACE VERTICAL ROD





7000 Series Parts Manual

Architectural Exit Devices

An ASSA ABLOY Group brand

ASSA ABLOY

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introduction

Installation Notes

1. Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Yale Locks & Hardware makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.
2. Refer to the templates and installation instructions for complete door preparation and installation requirements.
3. Machine screws are provided for steel reinforced doors, threaded-to-the-head AB Type screws are provided for wood door applications. In addition, sex nuts and bolts are provided for fire rated devices and are optional for non-rated devices. It is recommended that sex nuts and bolts be used for all exit device applications. This will improve the performance and extend the life of the product.

How to Order Parts

1. In order to simplify the ordering procedure and maintain regulatory compliance, parts are only available as listed
2. To order parts, provide the appropriate quantity, part number, finish, hand (when required) and description as directed and illustrated below.

For example, use the following configuration to order:

A) ten escutcheon assemblies (page 30) in satin chrome

B) one surface vertical rod latch cover (page 8) in bright brass

	Quantity	Part Number	Finish	Hand	Description
A	10	60-7000-0612-FIN	626	—	Escutcheon Assemblies
B	1	60-7010-X040-FIN	605	—	Top Latch Cover

For assistance, contact your authorized Yale distributor, sales agency or visit our website at www.yalelocks.com.

Finishes

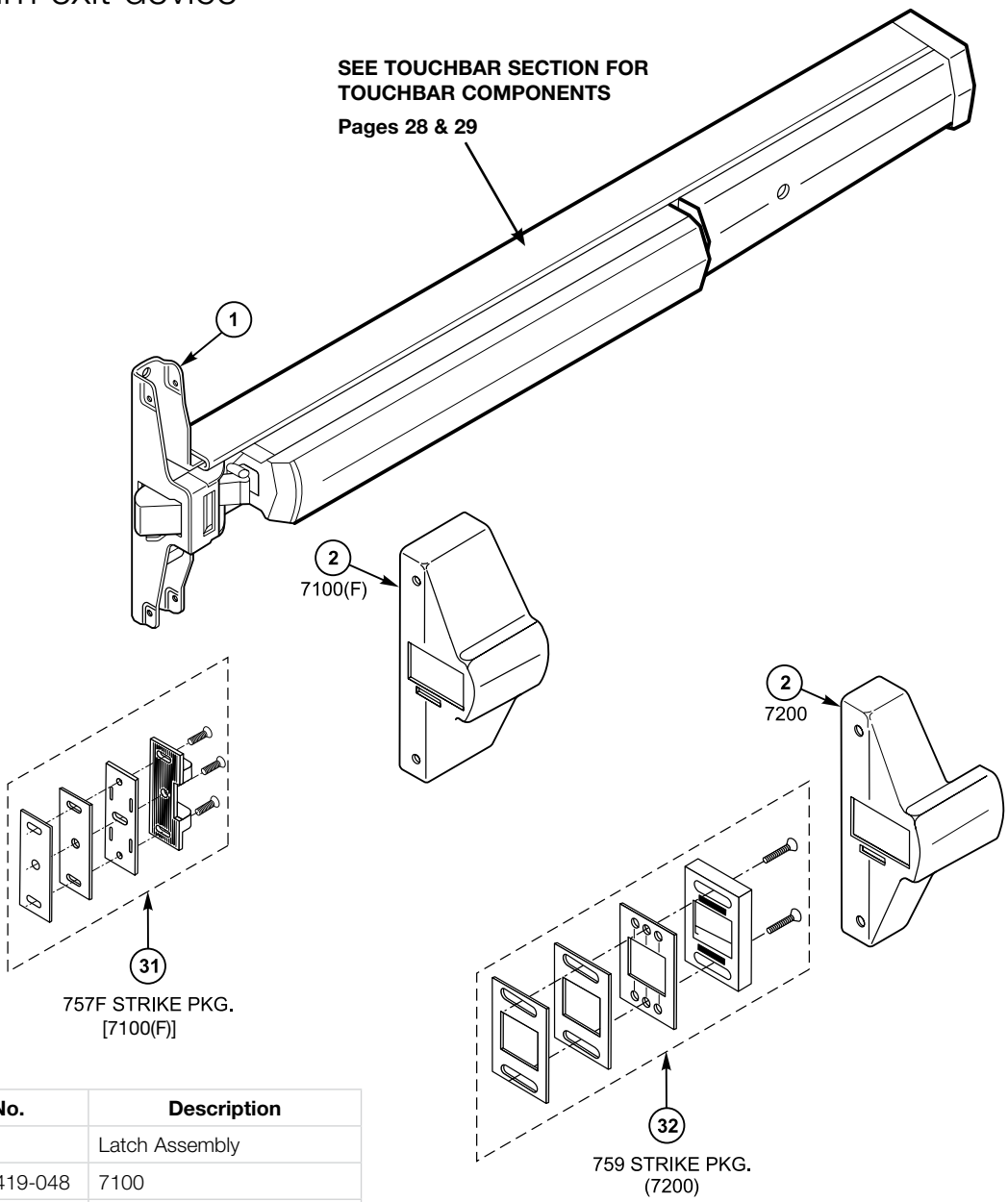
ANSI/BHMA Code	Finish Description
600	Primed for Painting
605	Bright Brass, Clear Coated
606	Satin Brass, Clear Coated
609	Satin Brass, Blackened, Satin Relieved, Clear Coated
611	Bright Bronze, Clear Coated
612	Satin Bronze, Clear Coated
613	Dark Oxidized Satin Bronze, Oil Rubbed[1]
616	Satin Bronze, Blackened, Satin Relieved, Clear Coated
619	Satin Nickel Plated, Clear Coated
620	Satin Nickel Plated, Blackened, Satin Relieved, Clear Coated
625	Bright Chrome Plated
626	Satin Chrome Plated
629	Bright Stainless Steel
630	Satin Stainless Steel
693	Black Painted
722	Black Oxidized Bronze, Oil Rubbed[2]

Finishes For Touchbar Covers Only	
BN[3]	Semi-Gloss Black Fused Polymer
LUM	Lumi-Lite® Photoluminescence
SS	Stainless Steel
WF	Walnut, Stained and Sealed
WU	Unfinished Wood Veneer

1. New May 1, 2010
2. Formerly 613 prior to May 1, 2010
3. Standard for device accent parts and strikes

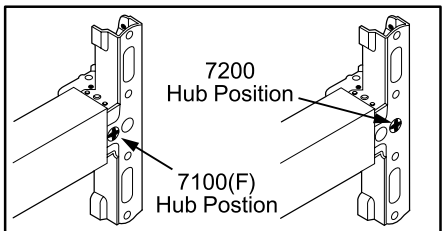
Finish available with MicroShield® antimicrobial coating, additional finishes by special application. Consult factory for availability.

7100(F)/7200 rim exit device

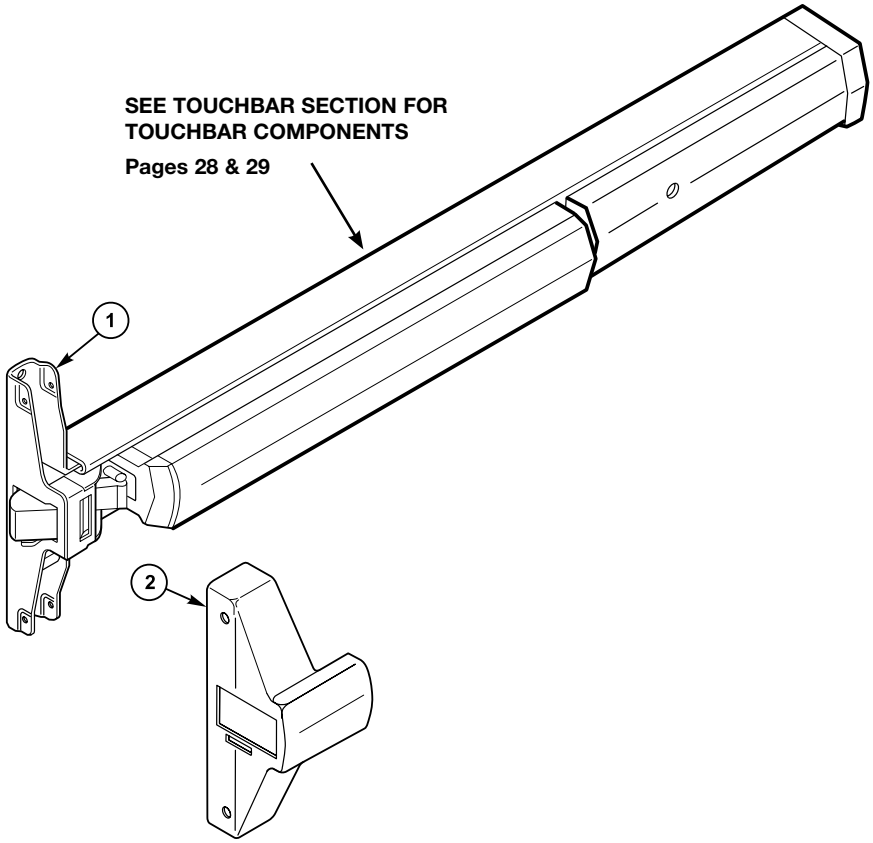


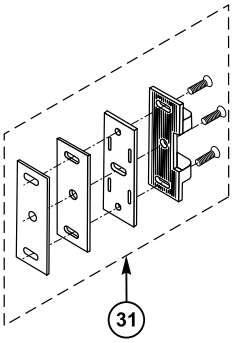
Item	Part No.	Description
1		Latch Assembly
	60-7000-0419-048	7100
	60-7000-0425-048	7100F
	60-7200-0354-048	7200
2		Cover
	60-7100-X026-FIN	7100
	Not Available	7100F (UL)
	60-7000-X111-FIN	7200
31	81-9800-0001-999	757F Strike Packet 7100(F)
32	81-9500-1357-200	759 Strike Packet 7200

Difference in Latch Assemblies



7200M(F) rim exit device

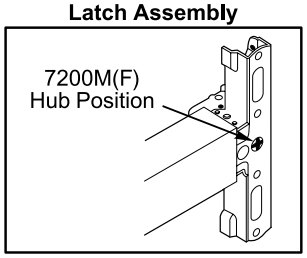




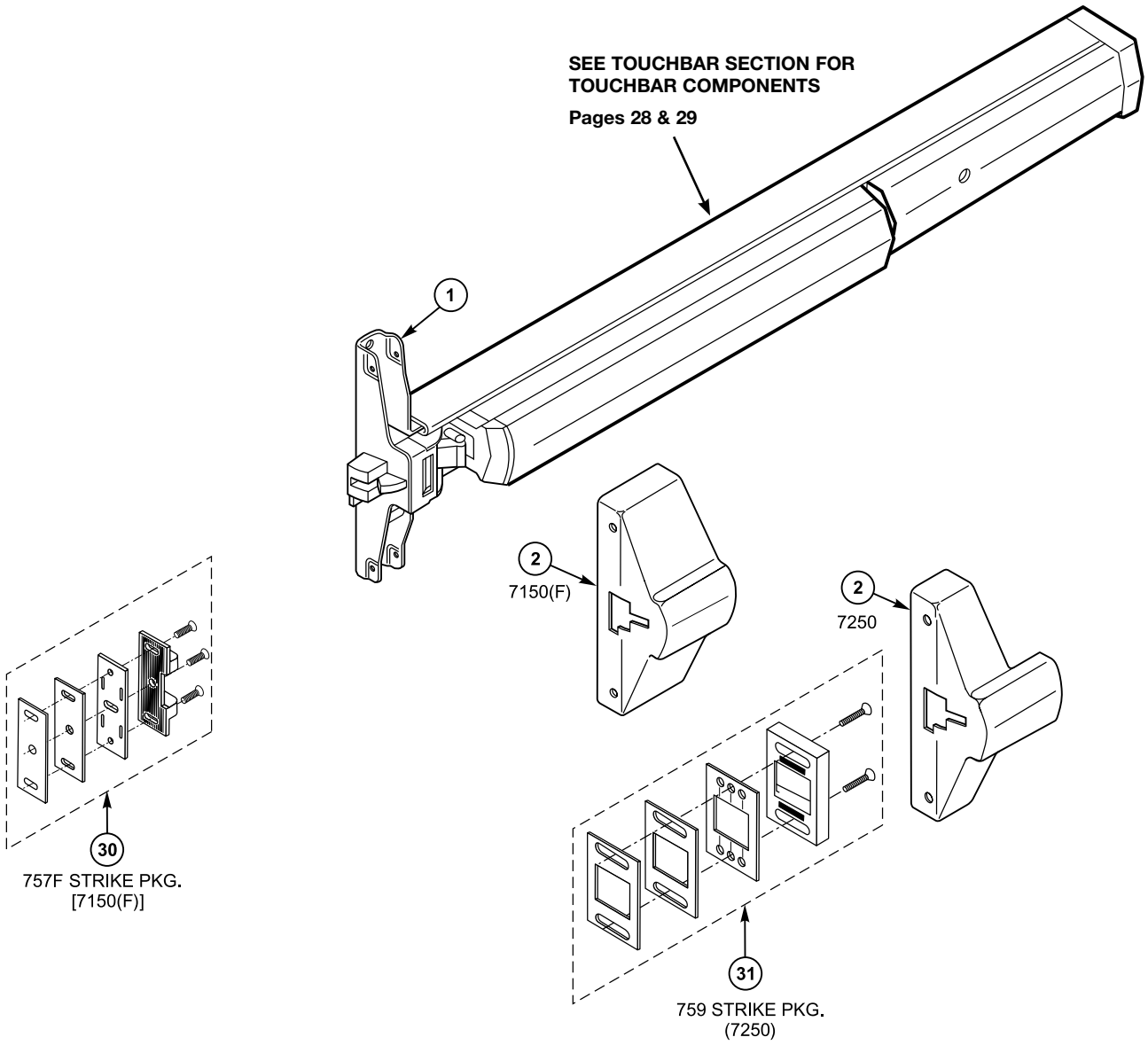
757F STRIKE PKG.
[7200M(F)]

Item	Part No.	Description
1		Latch Assembly
	60-7200-0354-048	7200M
	60-7200-0362-048	7100MF
2		Cover
	60-7000-X111-FIN	7200M
	Not Available	7100MF (UL)
31	81-9800-0001-999	757F Strike Packet 7200M(F)

Latch Assembly

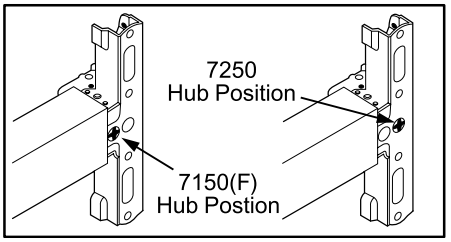


7150(F)/7250 rim exit device

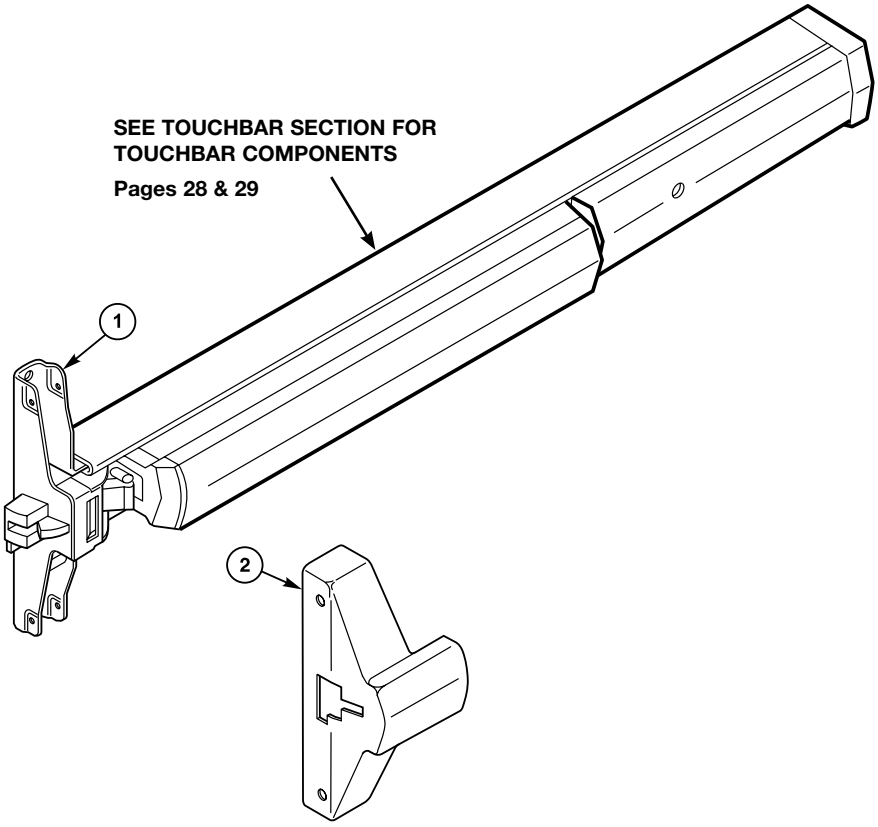


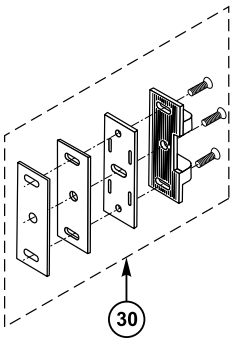
Item	Part No.	Description
1		Latch Assembly
	60-7150-0005-048	7150, 7150F
	60-7250-0001-048	7250
2		Cover
	60-7150-X001-FIN	7150
	Not Available	7150F (UL)
	60-7250-X001-FIN	7250
30	81-9800-0001-999	757F Strike Packet 7150(F)
31	81-9500-1357-200	759 Strike Packet 7250

Difference in Latch Assemblies



7250M(F) rim exit device

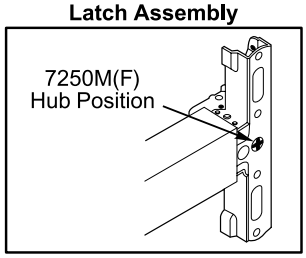




757F STRIKE PKG.
[7250M(F)]

Item	Part No.	Description
1		Latch Assembly
	60-7250-0001-048	7250M(F)
		Cover
2	60-7250-X001-FIN	7250M
	Not Available	7250MF (UL)
30	81-9800-0001-999	757F Strike Packet 7250M(F)

Latch Assembly

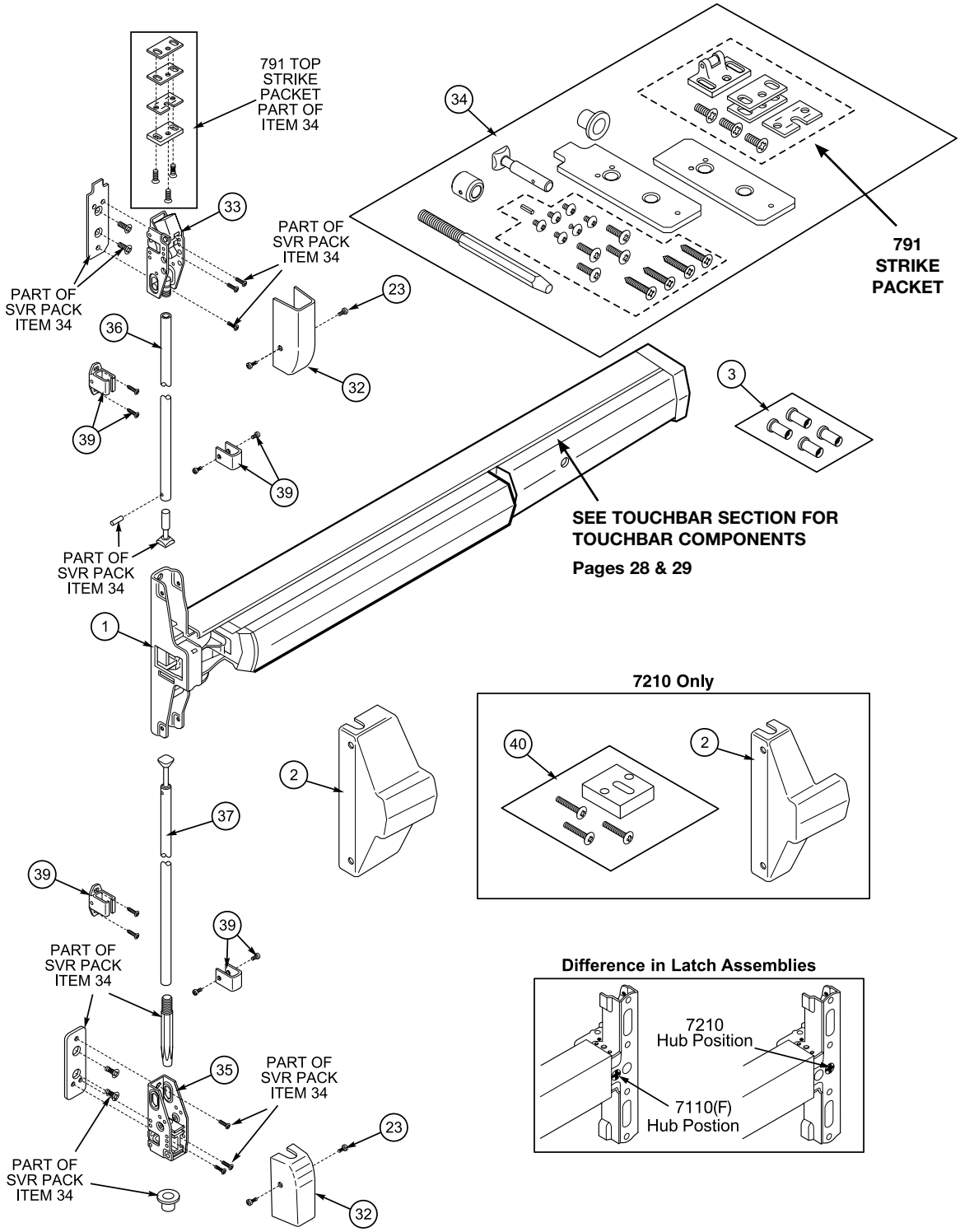


7110(F)/7210 surface vertical rod

Item	Part No.	Description
1		Latch Assembly
	60-7010-0360-048	7110, 7110F
		(Must Specify Hand)
	60-7210-0354-048	7210
		(Must Specify Hand)
2		Cover
	60-7110-X003-FIN	7110
	(Not Available)	7110F (UL)
	60-7010-X069-FIN	7210
3	03-0080-5047-FIN	Sex Nut Pack (4)
		Fire Rated Only (2 Packs)
23	81-9500-1549-FIN	Screw Packet, Cover
		#8-32 x 5/16"
		UFPHMS (5)
32	60-7010-X040-FIN	Cover, Top & Bottom
		Latches (2)
33		Top Latch
	60-7010-0049-999	7110, 7210
	60-7010-0050-999	7110F

Item	Part No.	Description
34	81-9500-1512-000	SVR Pack
		Consists of the following:
	60-7110-1038-048	Top Mtg. Plate
	60-7010-1039-048	Bottom Mtg. Plate
	60-7010-1067-048	Top Rod Connector
	99-9999-4308-999	Rod Connecting Pin
	60-1500-6150-999	Drill Jig
	60-7010-1070-018	Floor Bolt
	60-7010-1055-200	Strike
	81-9500-1546-000	Latch Mounting Screw Packet
	81-9500-1454-200	791 Top Strike Packet
35		Bottom Bolt Case
	60-7010-0054-000	7110, 7210
	60-7010-0053-000	7110F
36	60-7010-X052-FIN	Top Rod
37	60-7010-0020-FIN	Bottom Rod Assembly
39	81-9500-1514-FIN	Rod Guide Packet
		Consists of the following:
	60-7010-9050-999	Guide, Rod (1)
	60-7010-X051-FIN	Cover, Rod Guide (1)
	81-3110-0412-058	Screw, #8 x 1/2 (2)
		RPHMS (4)
	81-0011-0404-FIN	Screw, #8-32 x 1/4" (2)
		FPHMS (4)
40	81-9500-1464-200	Blade Stop Block Packet (7210 only)

7110(F)/7210 surface vertical rod

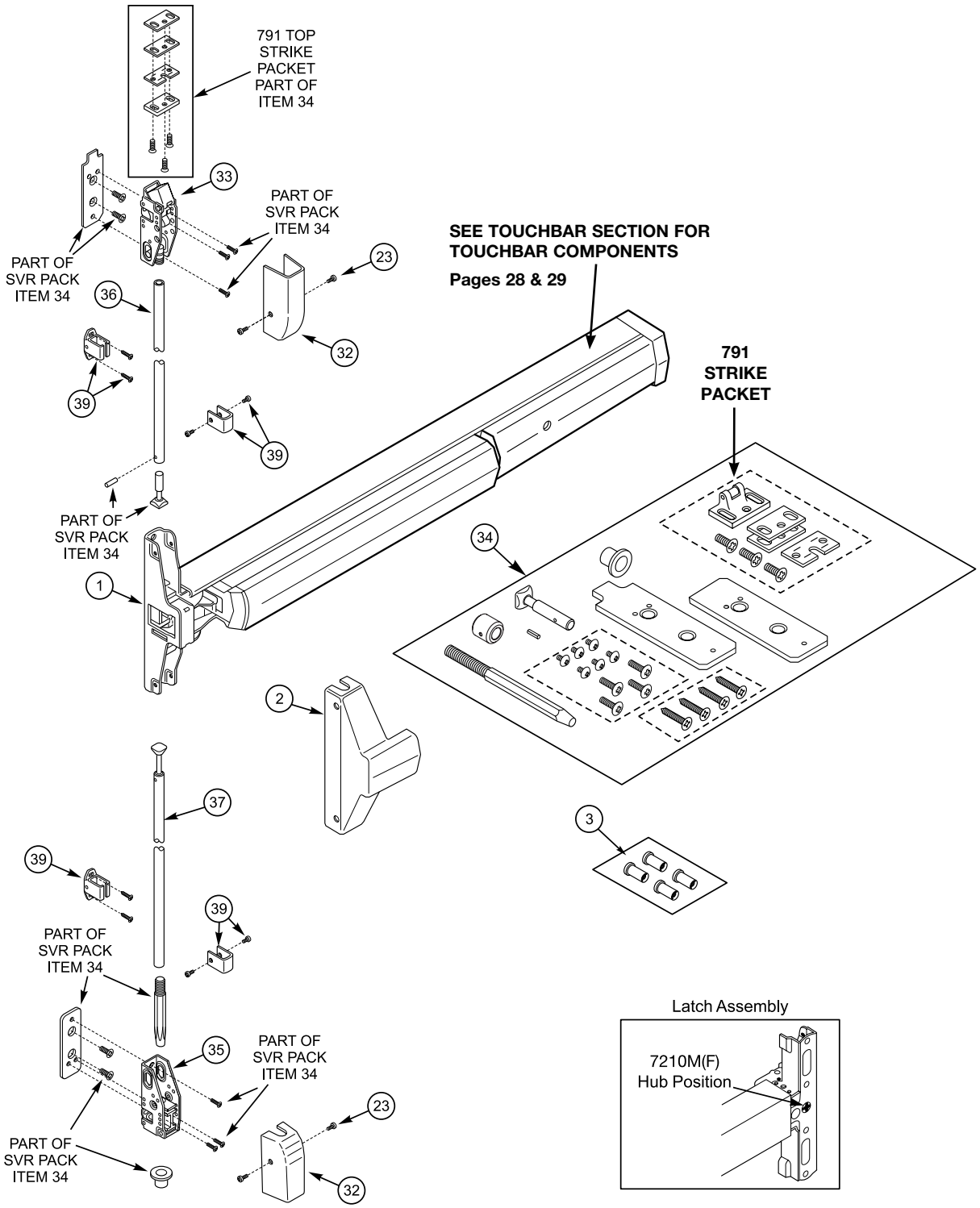


7210M(F) surface vertical rod

Item	Part No.	Description
1		Latch Assembly
	60-7210-0354-048	7210M, 7210MF (Must Specify Hand)
2		Cover
	60-7010-X069-FIN	7210M
	Not Available	7210MF
3	03-0080-5047-FIN	Sex Nut Pack (4) Fire Rated Only
23	81-9500-1549-FIN	Screw Packet, Cover
		#8-32 x 5/16"
		UFPHMS (5)
32	60-7010-X040-FIN	Cover, Top & Bottom Latches (2)
33		Top Latch
	60-7010-0049-999	7210M
	60-7010-0050-VEN	7210MF
34	81-9500-1512-000	SVR Pack
		Consists of the following:
	60-7110-1038-048	Top Mtg. Plate
	60-7010-1039-048	Bottom Mtg. Plate
	60-7010-1067-048	Top Rod Connector
	99-9999-4308-999	Rod Connecting Pin
	60-1500-6150-999	Drill Jig
	60-7010-1070-018	Floor Bolt
	60-7010-1055-200	Strike
	81-9500-1546-000	Latch Mounting Screw Pack
	03-0080-5047-FIN	Sex Nut Pack (4) Fire Rated Only
	81-9500-1454-200	791 Top Strike Packet

Item	Part No.	Description
35		Bottom Bolt Case
	60-7010-0054-000	7210M
	60-7010-0053-000	7210MF
36	60-7010-X052-FIN	Top Rod
37	60-7010-0020-FIN	Bottom Rod Assembly
39	81-9500-1514-FIN	Rod Guide Packet
		Consists of the following:
	60-7010-9050-999	Guide, Rod (1)
	60-7010-X051-FIN	Cover, Rod Guide (1)
	81-3110-0412-058	Screw, #8 x 1/2 (2) RPHMS (4)
	81-0011-0404-FIN	Screw, #8-32 x 1/4" (2) FPHMS (4)

7210M(F) surface vertical rod

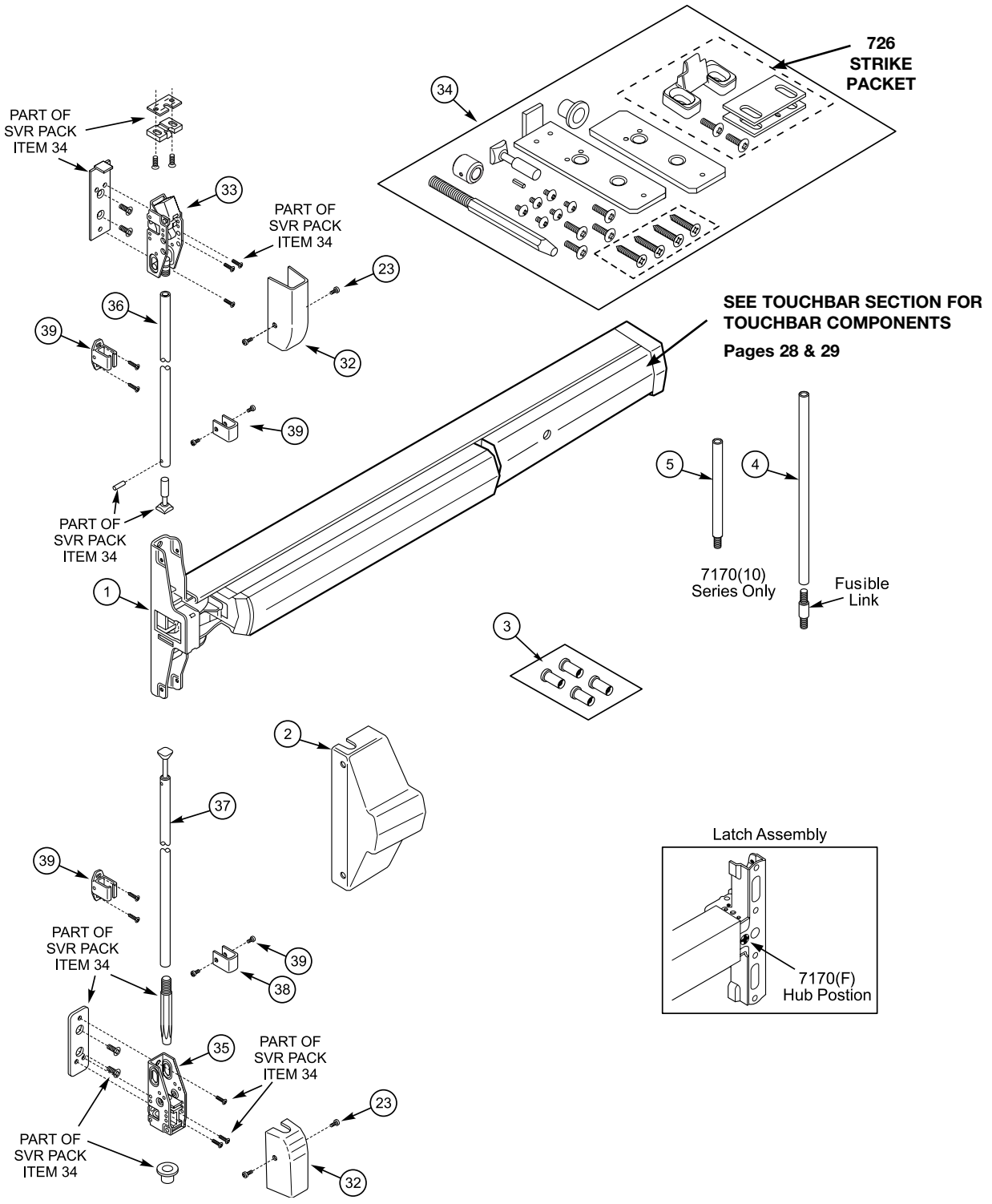


7170(F) surface vertical rod

Item	Part No.	Description
1		Latch Assembly
	60-7010-0360-048	7170, 7170F (Must Specify Hand)
2		Cover
	60-7110-X003-FIN	7170
	Not Available	7170F
3	03-0080-5047-FIN	Sex Nut Pack (4) (Fire Rated Only)
4	60-1510-0281-FIN	Rod Extension Assy., 24" (-10 Device Only)
5	60-1510-0278-FIN	Rod Extension Assy., 12" (-10 Device Only)
23	81-9500-1549-FIN	Screw Packet, Cover
		#8-32 x 5/16"
		UFPHMS (5)
32	60-7010-X040-FIN	Cover, Top & Bottom Latches (2)
33		Top Latch
	60-7010-0049-999	7170
	60-7010-0050-999	7170F
34	81-9500-1610-000	SVR Pack
		Consists of the following:
	60-7110-1005-048	Top Mtg. Plate
	60-7010-1039-048	Bottom Mtg. Plate
	60-7010-1067-048	Top Rod Connector
	99-9999-4308-999	Rod Connecting Pin
	60-1500-6150-999	Drill Jig
	60-7010-1070-018	Floor Bolt
	60-7010-1055-200	Strike
	81-9500-1546-000	Latch Mounting Screw Pack
	81-3111-0676-048	Latch Mounting Screw (4) (Wood Door Panic)
	81-9500-1576-000	726 Top Strike Packet

Item	Part No.	Description
35		Bottom Bolt Case
	60-7010-0054-000	7170
	60-7010-0053-000	7170F
36	60-7010-X052-FIN	Top Rod
37	60-7010-0020-FIN	Bottom Rod Assembly
39	81-9500-1514-FIN	Rod Guide Packet
		Consists of the following:
	60-7010-9050-999	Guide, Rod (1)
	60-7010-X051-FIN	Cover, Rod Guide (1)
	81-3110-0412-058	Screw, #8 x 1/2 (2)
		RPHMS (4)
	81-0011-0404-FIN	Screw, #8-32 x 1/4" (2)
		FPHMS (4)

7170(F) surface vertical rod



7170(F) LBR surface vertical rod

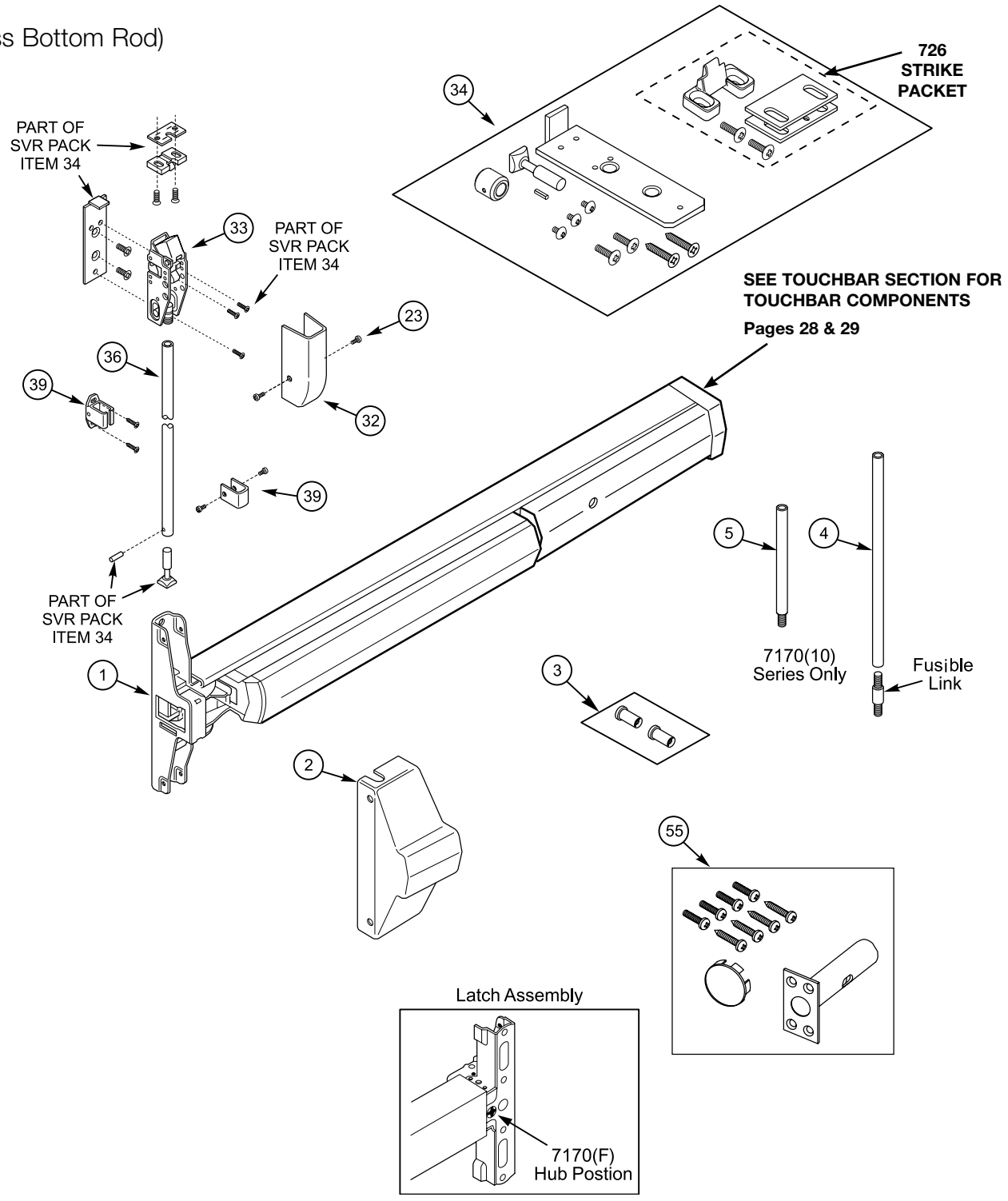
(Less Bottom Rod)

Item	Part No.	Description
1		Latch Assembly
	60-7010-0360-048	7170, 7170F (Must Specify Hand)
2		Cover
	60-7110-X003-FIN	7170
	Not Available	7170F
3	03-0080-5047-FIN	Sex Nut Pack (4), Fire Only
4	60-1510-0281-FIN	Rod Extension Assy., 24" (-10 Device Only)
5	60-1510-0278-FIN	Rod Extension Assy., 12" (-10 Device Only)
23	81-9500-1549-FIN	Screw Packet, Cover
		#8-32 x 5/16"
		UFPHMS (5)
32	60-7010-X040-FIN	Cover, Top & Latch
33	60-7010-0050-999	Top Latch, 7170(F)

Item	Part No.	Description
34	81-9500-1562-000	SVR Pack
		Consists of the following:
	60-7110-1005-048	Top Mtg. Plate
	60-7010-1067-048	Top Rod Connector
	99-9999-4308-999	Rod Connecting Pin
	60-1500-6150-999	Drill Jig
	81-9500-1613-000	Latch Mounting Screw Pack
	81-3111-0676-048	Latch Mounting Screw(2) (wood doors, panic)
	81-9500-1576-000	726 Top Strike Packet
36	60-7010-X052-FIN	Top Rod
39	81-9500-1514-FIN	Rod Guide Packet
		Consists of the following:
	60-7010-9050-999	Guide, Rod (1)
	60-7010-X051-FIN	Cover, Rod Guide (1)
	81-3110-0412-058	Screw, #8 x 1/2 (2) RPHMS (4)
	81-0011-0404-FIN	Screw, #8-32 x 1/4" (2) FPHMS (4)
55	60-7110-0002-999	Popper Packet [Fire Rated (F) Only]

7170(F) LBR surface vertical rod

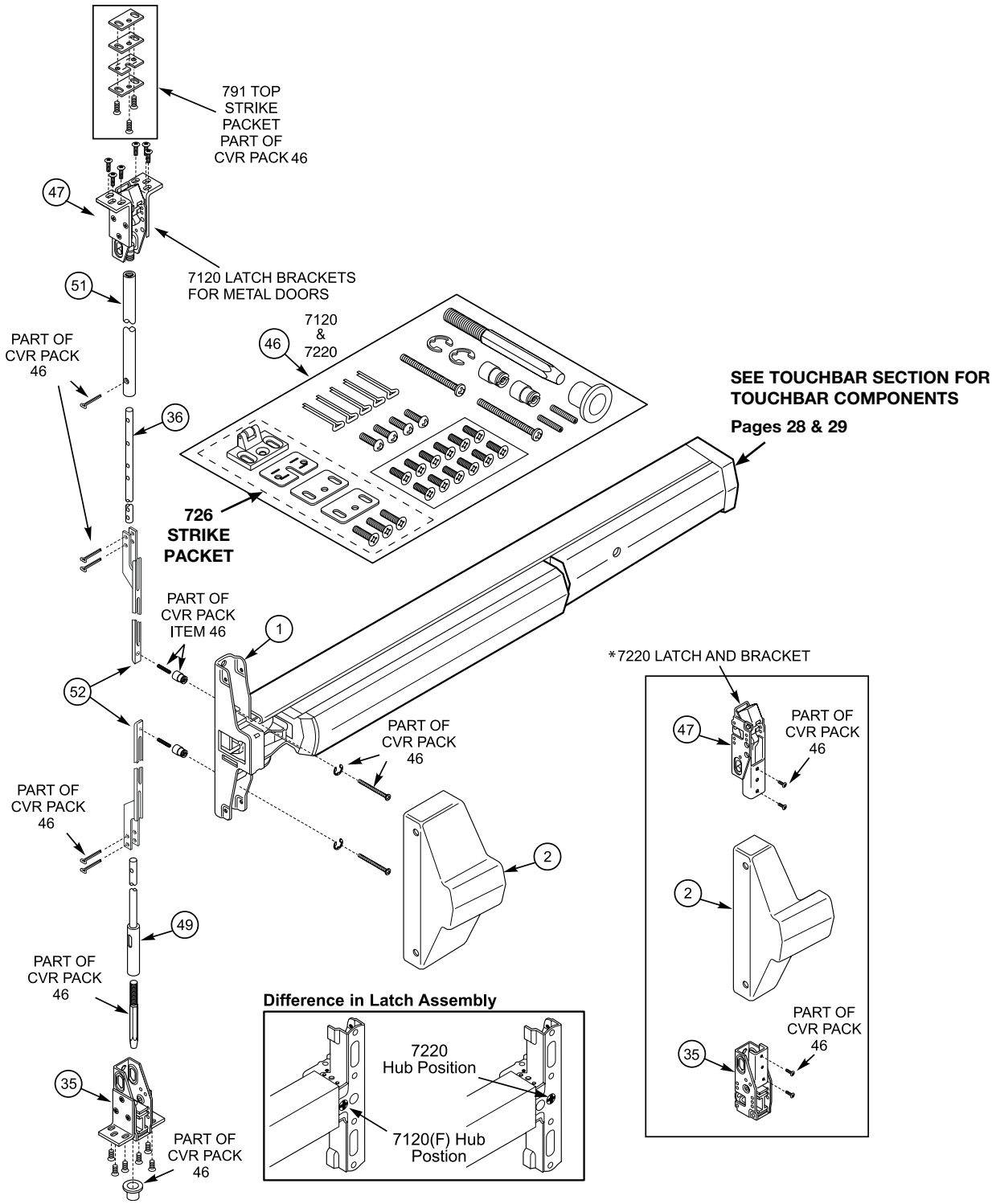
(Less Bottom Rod)



7120(F)/7220 concealed vertical rod

Item	Part No.	Description
1		Latch Case Assembly
	60-7020-0360-048	7120, 7120F Must Specify Hand)
	60-7220-0354-048	7220 (Must Specify Hand)
2		Cover, Latch Assembly
	60-7100-X025-FIN	7120 Not Available 7120F
	60-7000-X353-FIN	7220
35		Bottom Bolt Case
	60-7020-0058-048	7120
	60-7020-0055-048	7120F
	60-7220-0065-048	7220
36	60-7220-1019-059	Top Rod
46	81-9500-1456-000	CVR Pack for 7120 & 7220
		Consists of the following:
	60-7010-1070-018	Floor Bolt
	60-7010-1055-200	Strike
	81-9500-1454-200	791 Top Strike Packet
	60-7120-1047-048	Pin, Rod Yoke (2)
	60-7140-1026-059	Set Screw, Yoke Pin
	99-9958-0045-999	Cotter Pin (5)
	99-9999-4526-999	Ring, Retaining (2)
	81-0014-0430-036	2" Temp Screw (2)
	81-9500-1548-058	Screw Pack
47		Top Latch & Bracket Assembly
	60-7020-0057-000	7120
	60-7020-0060-000	7120F
	60-7220-0066-048	7220
49	60-7020-0059-000	Bottom Rod & Coupler Assembly
51	60-7220-7025-000	Top Rod Tube
52	60-7220-0030-999	Arm & Bracket Assy (2)

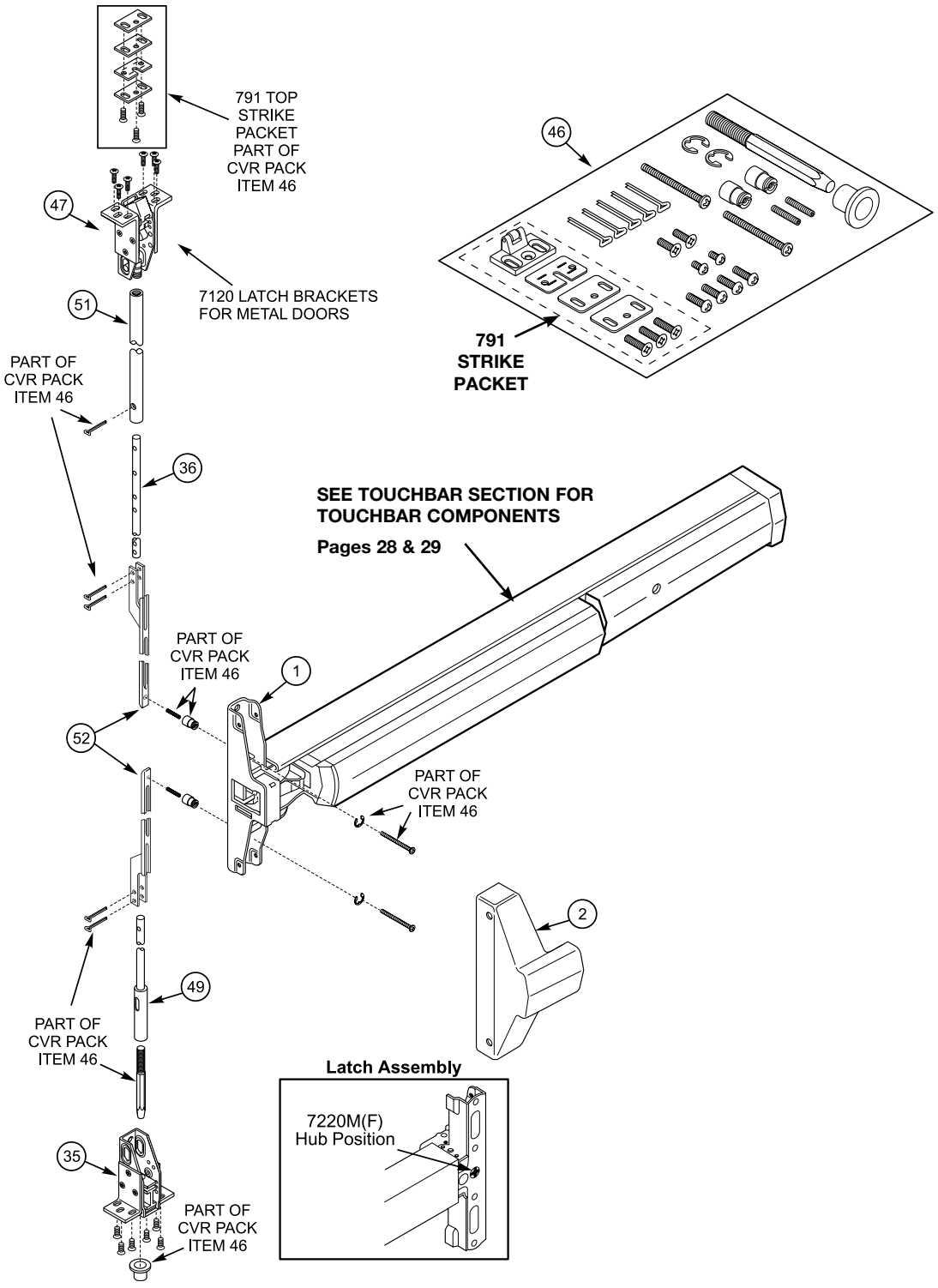
7120(F)/7220* concealed vertical rod



7220M(F) concealed vertical rod

Item	Part No.	Description
1		Latch Assembly
	60-7220-0354-048	7220M, 7220MF (Must Specify Hand)
2		Cover, Latch Assembly
	60-7000-X353-FIN	7220M Not Available 7220MF
35		Bottom Bolt Case
	60-7020-0058-048	7220M
	60-7020-0055-048	7220MF (UL)
36	60-7220-1019-059	Top Rod
46	81-9500-1456-000	CVR Pack
		Consists of the following:
	60-7010-1070-018	Floor Bolt
	60-7010-1055-200	Strike
	81-9500-1454-200	791 Top Strike Packet
	60-7120-1047-048	Pin, Rod Yoke (2)
	60-7140-1026-059	Set Screw, Yoke Pin
	99-9958-0045-999	Cotter Pin (5)
	99-9999-4526-999	Ring, Retaining (2)
	81-9500-1548-058	Screw Pack
	81-0014-0430-036	2" Temp Screw (2)
47		Top Latch & Bracket Assembly
	60-7020-0057-000	7220M
	60-7020-0060-000	7220MF
49	60-7020-0059-000	Bottom Rod & Coupler Assembly
51	60-7220-7025-000	Top Rod Tube
52	60-7220-0030-999	Arm & Bracket Assy (2)

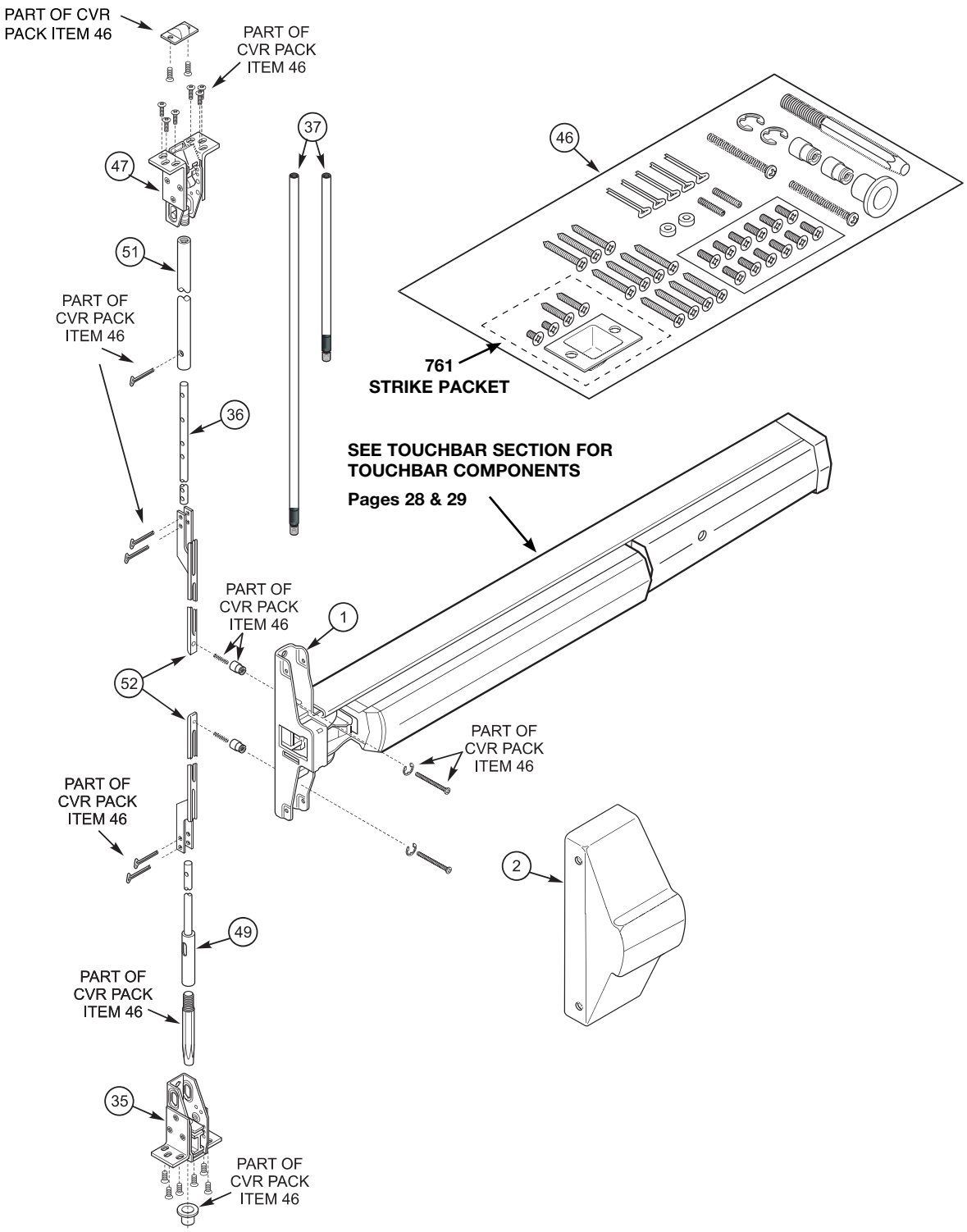
7220M(F) concealed vertical rod



7160(F) concealed vertical rod

Item	Part No.	Description
1		Latch Case Assembly
	60-7020-0360-048	7160, 7160F (Specify Hand)
2		Cover, Latch Assembly
	60-7100-X025-FIN	7160
	Not Available	7160F (UL)
35	60-7020-0055-048	Bottom Bolt Case, 7160F
36	60-7220-1019-059	Top Rod
37		Rod Extension Assembly
	60-1510-0282-000	12" Rod Assembly
	60-1510-0281-000	24" Rod Assembly
46	81-9500-1581-000	CVR Pack
		Consists of the following:
	60-7010-1070-018	Floor Bolt
	60-7010-1055-200	Strike
	60-7160-1004-999	761 Top Strike Packet
	60-7120-1047-048	Pin, Rod Yoke (2)
	60-7140-1026-059	Set Screw, Yoke Pin
	60-7020-1064-059	Yoke Pin Spacer (2)
	99-9958-0045-999	Cotter Pin (5)
	99-9999-4526-999	Ring, Retaining (2)
	81-9500-1580-058	Screw Pack
	81-0014-0430-036	2" Temp Screw (2)
47	60-7160-0060-000	Top Latch & Bracket Assembly, 7160(F)
49	60-7020-0059-000	Bottom Rod & Coupler Assembly
51	60-7220-7025-000	Top Rod Tube
52	60-7220-0030-999	Arm & Bracket Assy. (2)

7160(F) concealed vertical rod



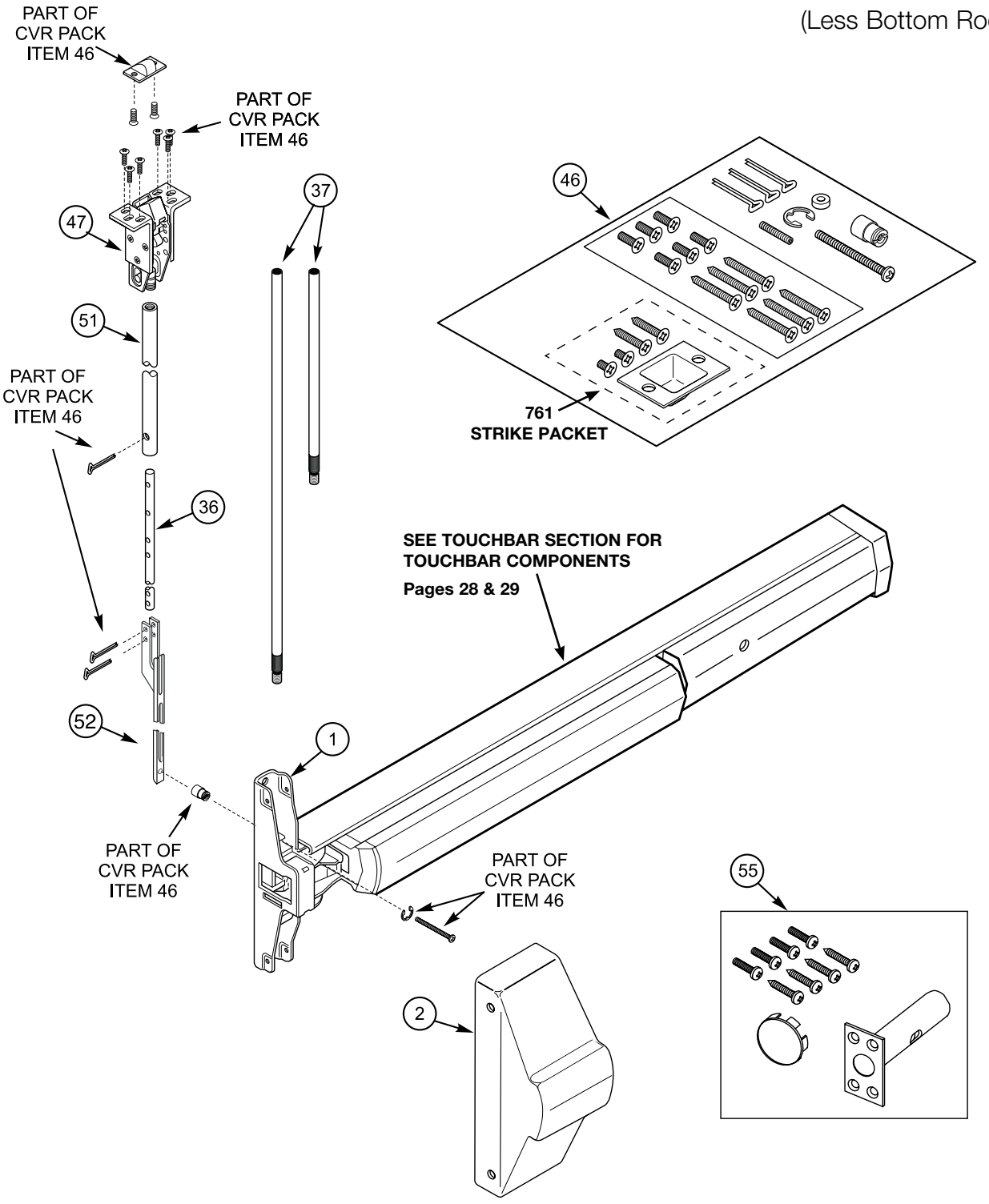
7160(F) LBR concealed vertical rod

(Less Bottom Rod)

Item	Part No.	Description
1		Latch Case Assembly
	60-7020-0360-048	7160, 7160F (Specify Hand)
2		Cover, Latch Assembly
	60-7100-X025-FIN	7160
	Not Available	7160F (UL)
36	60-7220-1019-059	Top Rod
37		Rod Extension Assembly
	60-1510-0282-000	12" Rod Assembly
	60-1510-0281-000	24" Rod Assembly
46	81-9500-1605-000	CVR Pack
		Consists of the following:
	60-7160-1004-999	761 Top Strike Packet
	60-7120-1047-048	Pin, Rod Yoke (1)
	60-7140-1026-059	Set Screw, Yoke Pin
	60-7020-1064-059	Yoke Pin Spacer (1)
	99-9958-0045-999	Cotter Pin (3)
	99-9999-4526-999	Ring, Retaining (1)
	81-0011-0512-058	Screw, 10-24 x 1/2 FHM-PH (6)
	81-0014-0430-036	8x32x2 Temp Screw (1)
47	60-7160-0060-000	Top Latch & Bracket Assembly, 7160(F)
51	60-7220-7025-000	Top Rod Tube
52	60-7220-0030-000	Arm & Bracket Assembly (1)
55	60-7110-0002-999	Popper Pack (Fire Rated Only)

7160(F) LBR concealed vertical rod

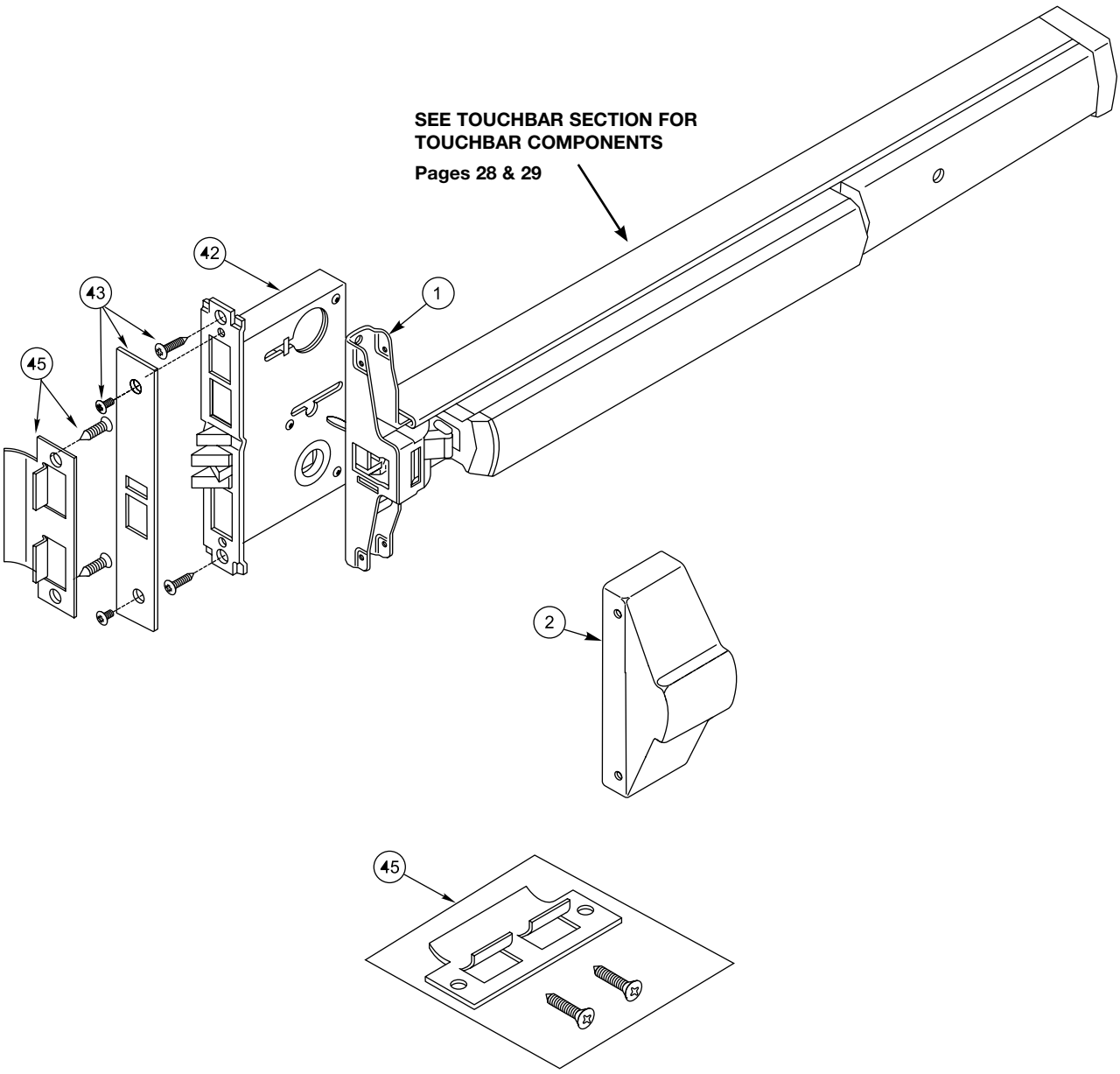
(Less Bottom Rod)



7130(F) mortise exit device

Item	Part No.	Description
1	60-7030-0382-048	Latch Assembly 7130, 7130F
2		Cover
	60-7100-X025-FIN	7130
	Not Available	7130F (UL)
42		Mortise Lock Body Specify Hand
	60-7030-0385-048	7130-T8F
	60-7030-0387-048	7130-K5F
	60-7030-0389-048	7130-K8F
	60-7030-0391-048	7130-L5F
	60-7030-0393-048	7130-L8F
43	60-0000-1159-FIN	Armored Front and Mounting Pack
		Consists of the following:
	60-7030-X049-FIN	Armored Front
	81-0022-0404-FIN	Screw, 8-32 x 1/4 UFPHMS (2)
	81-2012-0620-059	Screw, #12/12-24 Comb.UFPHMS (2)
45	81-9500-0562-200	798 Strike Packet

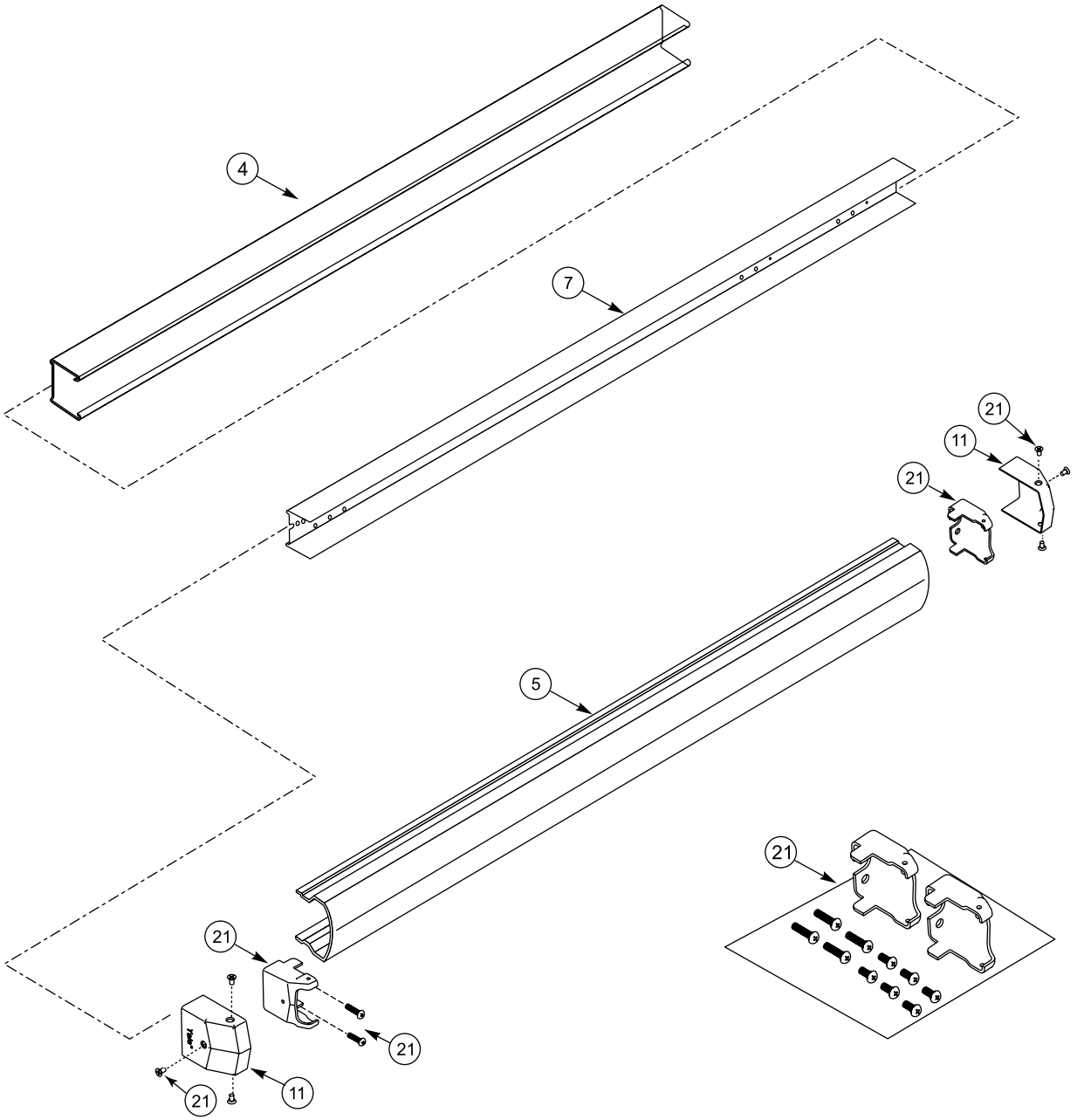
7130(F) mortise exit device



720DB rigid bar

Item	Part No.	Description
4	60-7200-X066-FIN	Bottom Rail, 48"
5	60-7200-X068-FIN	Cover
7	60-7000-1336-999	Carrier Bar
11	60-7000-X360-FIN	End Cap
21	81-9500-0613-FIN	Device Mounting Pack
		Consists of the following:
	60-7000-1423-048	End Clamp (2)
	60-7000-1349-048	Screw, 1/4-20 X 1 PPHMS (4)
	81-9500-1547-FIN	Screw Packet, Cover (2)

720DB rigid bar



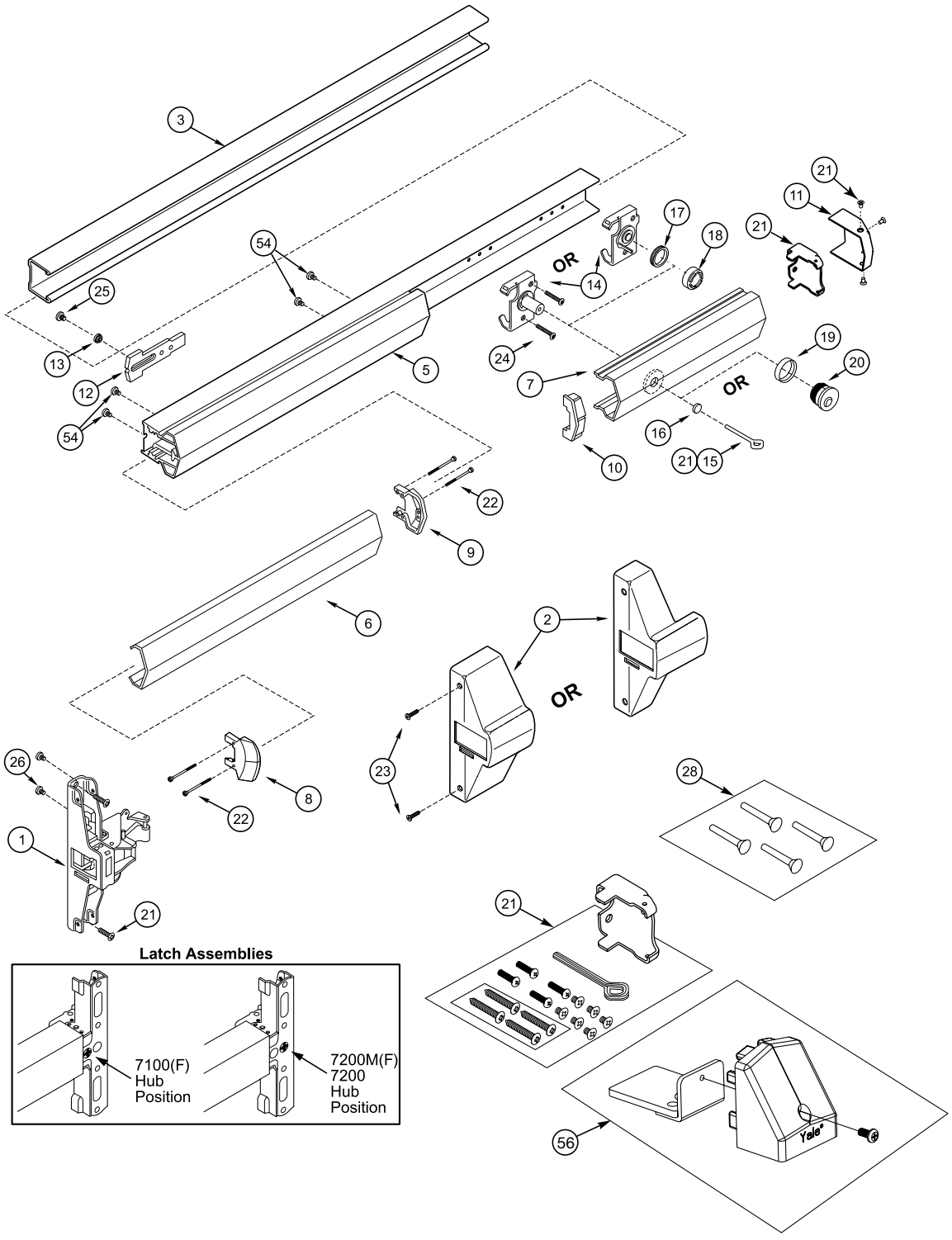
touchbar

Item	Part No.	Description
1		Latch Case Assembly ***(Reversible) Specify Hand***
	60-7000-0419-048	7100
	60-7000-0425-048	7100F
	60-7200-0354-048	7200, 7200M
	60-7200-0362-048	7200MF
	60-7150-0005-048	7150, 7150F
	60-7250-0001-048	7250, 7250M(F)
	60-7010-0360-048	7110(F), 7170(F)
	60-7210-0354-048	7210, 7210M(F)
	60-7020-0360-048	7120(F), 7160(F)
	60-7220-0354-048	7220, 7220M(F)
	60-7030-0382-048	7130(F) ***(Includes Trim Slide)***
2		*Cover, Latch Assembly
	60-7100-X026-FIN	7100
	60-7000-X111-FIN	7200, 7200M
	60-7150-X001-FIN	7150
	60-7250-X001-FIN	7250, 7250M
	60-7110-X003-FIN	7110, 7170
	60-7010-X069-FIN	7210, 7210M
	60-7100-X025-FIN	7120, 7160, 7130
	60-7000-X353-FIN	7220, 7220M
3		Bottom Rail
	60-7000-X079-FIN	36" 7100 Series
	60-7200-X058-FIN	36" 7200 Series
	60-7200-X066-FIN	48" 7100/7200 Series
5		Bar & Carrier Assembly
	60-7000-0423-000	36" 7100 Series
	60-7200-0356-000	36" 7200 Series
	60-7000-0424-000	48" 7100/7200 Series
6		Cover, Bar
	60-7000-X083-FIN	36"
	60-7000-X084-FIN	48"
7		Cover, End
	60-7000-X359-FIN	36" std. 7100 Series
	60-7000-X362-FIN	36" 7100 Series Cylinder Dogging
	60-7200-X360-FIN	36" std. 7200 Series
	60-7200-X363-FIN	36" 7200 Series Cylinder Dogging
	60-7200-X361-FIN	All 48" std.
	60-7200-X364-FIN	All 48" Cylinder Dogging
8	60-7000-6115-999	Touch Pad Cap, Front
9	60-7000-6120-999	Touch Pad Cap, Rear

Item	Part No.	Description
10	60-7000-9088-999	Bar Cap, Black Nylon
11	60-7000-X360-FIN	End Cap
12	60-7200-9216-999	Trim Slide (All except Mortise)
13	60-7000-1320-048	Trim Slide Retainer
14		Dogging Assembly
	60-7000-0406-048	Standard Hex Key Dog.
	60-7000-0407-048	Cylinder, Dogging
15	60-7000-1131-036	Dogging Key (5/32" hex)
16	99-9999-4123-999	Dogging Hole Plug
17	60-7000-2421-000	Cylinder Nut
18	60-2000-9153-999	Cylinder Spacer Sleeve
19		Collar, Dogging Cylinder
	None Required	1-1/8" Cylinder
	10-1765-X001-FIN	1-1/4" Cylinder
	10-1765-X013-FIN	1-1/2" Cylinder
20	As Ordered	Dogging Cylinder (Mortise)
21	81-9500-0605-FIN	End Clamp Packet
		Consists of the following:
	60-7000-1423-048	End Clamp (4 Wood Screws)
	60-7000-1349-048	Mounting Screws (4)
	60-7000-1131-036	Hex Dogging Key (Except Fire Rated)
	81-9500-1549-FIN	Cover Screw Packet (6)
22	60-7000-1391-999	Screw, Touch Bar Caps, Torx Cap #6-32 x 3/4" (4)
23	81-9500-1549-FIN	Screw Packet, Cover #8-32 x 5/16" FHUM-PH (5)
24	81-4414-0514-048	Screw, Dogging Assy., #10-24 x 5/8" PHT-T-PN (2)
25	81-3711-0412-048	Screw, Trim Slide, #8-32 x 1/2" FHT-PH
26	81-4014-0404-048	Screw, Latch Head to Carrier, #8-32 x 1/4" PHTC-PH (2)
28	03-0080-5047-FIN	Sex Nut Packet (4) Fire-rated Devices incl.
54	81-4214-0508-036	Screw, #10-24 x 3/8 Type F THP (4)
56	81-9500-0620-FIN	Flush End Cap Kit

*Covers which bare the UL Listing mark for Fire-Rating cannot be shipped with that marking. Therefore, covers for Fire-Rated Latch Case Assemblies are not available.

touchbar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56
Yale
Latch Assemblies
7100(F)
Hub
Position
7200M(F)
7200
Hub
Position

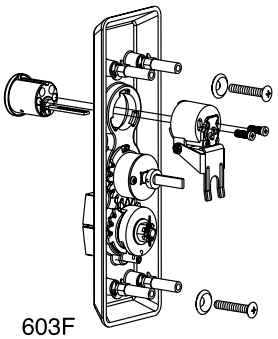
603F, 622F, 624F, 625F, 626F, 628F, 629F trim

Item	Part No.	Description
1		Escutcheon Assembly
	60-7000-0612-FIN	603F, 622F, 624F, 625F, 626F
	60-7000-0615-FIN	628F, 629F
2	See Chart page 60	Lever/Knob/Thumbturn Assy. (603F)
3	See Chart page 61	Cylinder, Rim*
5	60-7000-0215-000	Housing & Cam Assy.
6	60-7000-1235-048	Screw, Cylinder Mounting (2)
7	81-0016-2200-999	Screw, NL
8	60-7000-9002-999	Driver Gear Assembly
9	81-4414-0308-036	Screw, Tailpiece Plate, #6 x 3/8", PHT-T-PH (2)
10		Tailpiece Assembly
	60-7000-0611-059	1-3/4" Door Without Shim Kit
	60-7000-0217-059	2" - 2-1/4" Door or Std. Door with Shim Kit
11		Gear, Drive
	60-7000-1328-048	Thumbturn/Lever (603F, 626F, 628F)
	60-7000-1011-059	Knob/Rigid Lever (629F, 625)
	60-7000-1339-048	Knob Gear (622F, 624F)

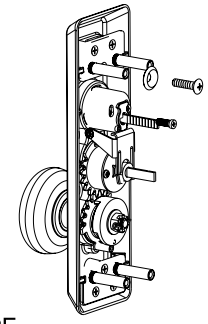
Item	Part No.	Description
12	60-7000-6220-999	Universal Spring Hub, Lever
14	99-9958-0047-999	Cotter Pin
15	99-9999-3516-999	Nut, Spindle
16	60-7000-9001-999	Thimble Insert, Nylon (Levers) ***Not Shown***
17	81-9500-1476-FIN	Screw Packet, Mtg.
		Consists of the following:
	81-0013-0670-FIN	Screw, 1/4-20 x 1 OPHMS (2)
	99-9999-7156-FIN	Washer, #14 Finish (2)
18		Spring, Grip Return
	60-7000-1234-999	Knob ***Not Shown***
	60-7000-1220-999	Levers, Universal Spring
19	60-7000-1306-999	Spring ***Not Shown*** Under Tailpiece
20	60-7000-1365-999	Hex Nut / Bushing for Spring ***Not Shown***
21	60-7000-1236-059	Washer Under Tailpiece (2) ***Not Shown***

*See page 61 for cylinder collar applications.

603F, 622F, 624F, 625F, 626F, 628F, 629F trim



603F



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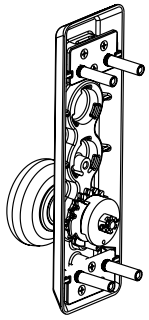
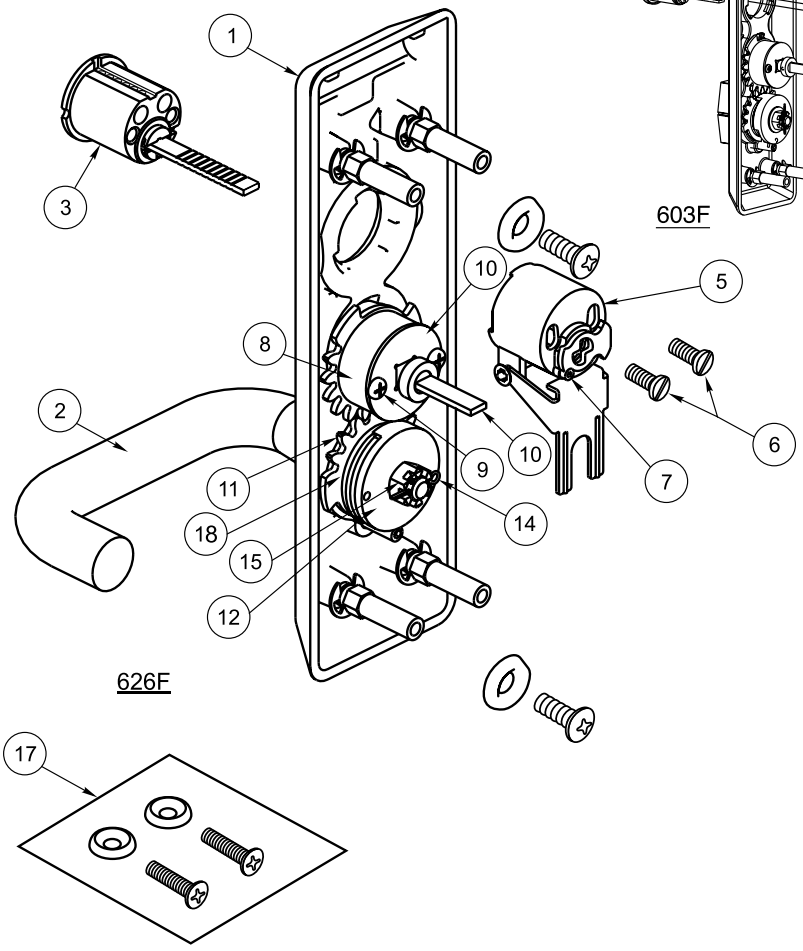
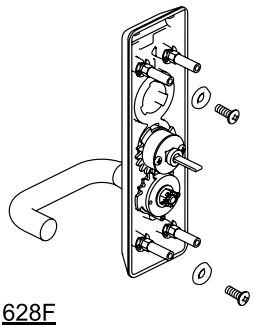


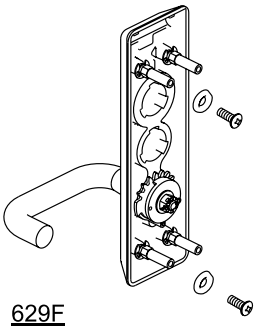
624F/625F



626F



628F



629F

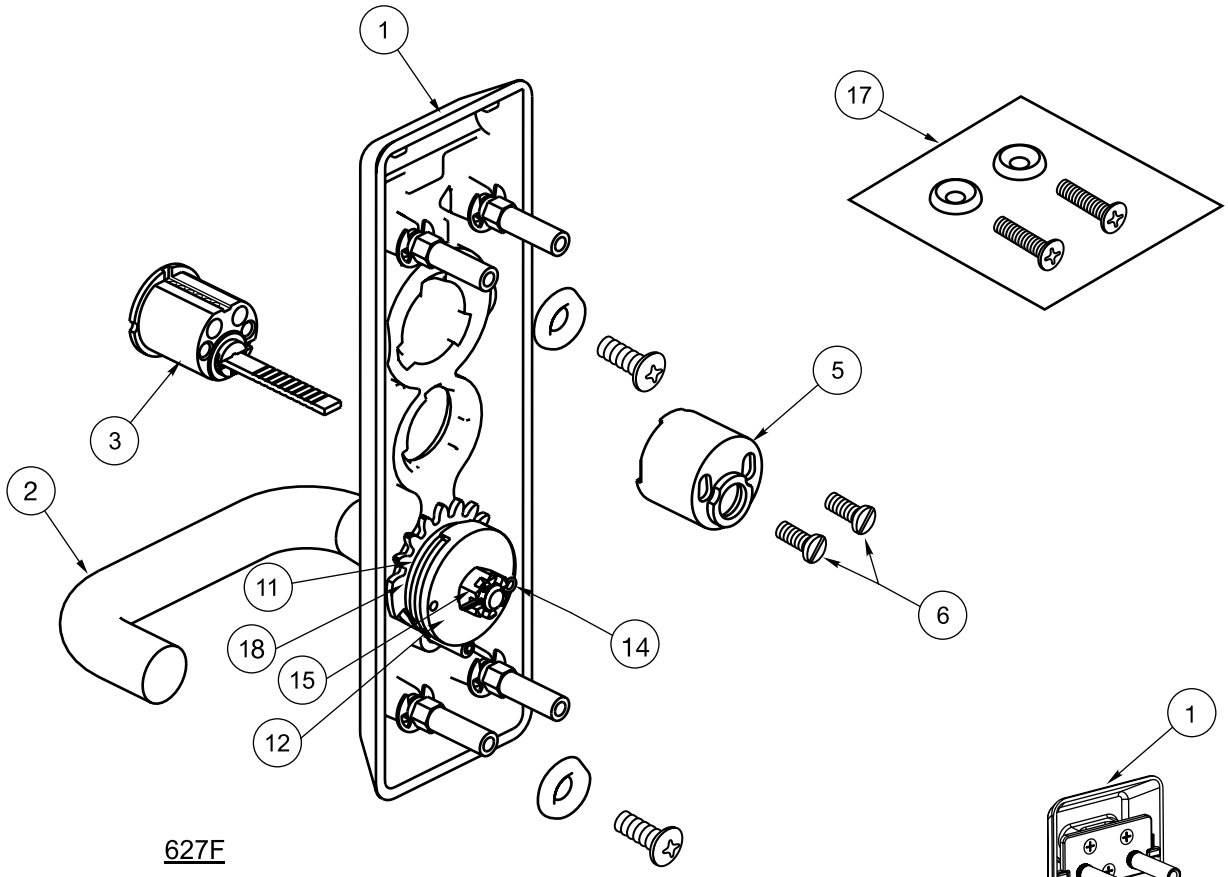
Cylinder Controls Thumbturn	**Cylinder Controls Knob**	**(DT) Active Knob (Passage)**	**(DT) Rigid Knob**	**Cylinder Controls Lever**	**Access by Key and Lever**	**(Passage) Active Lever or (DT) Free Wheeling Lever**	**(DT) Rigid Lever**
11/12	08	02	02	08	09	—	02
603F	622F	624F	625F	626F	626F	628F	629F

623F, 627F trim

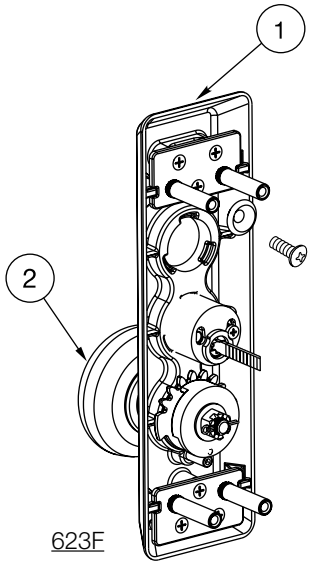
Item	Part No.	Description
1	60-7000-0705-FIN	Escutcheon Assy. 623F, 627F
2	See Chart page 60	Lever / Knob
3	See Chart page 61	Cylinder, Rim*
5	60-2000-6206-082	Housing, Cylinder
6	60-7000-1235-048	Screw, Cylinder Mounting (2)
11	60-7000-1328-048	Gear, Drive
12	60-7000-6220-999	Universal Spring Hub, Lever
14	99-9958-0047-999	Cotter Pin
15	99-9999-3516-999	Nut, Spindle
16	60-7000-9001-999	Thimble Insert, Nylon
		(Levers) ***Not Shown***
17	81-9500-1476-FIN	Screw Packet, Mtg.
		Consists of the following:
	81-0013-0670-FIN	Screw, 1/4-20 x 1
		OPHMS (2)
	99-9999-7156-FIN	Washer, #14 Finish (2)
18		Spring, Grip Return
	60-7000-1234-999	Knob ***Not Shown***
	60-7000-1220-999	Levers, Universal Spring

*See page 61 for cylinder collar applications.

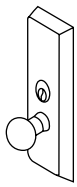
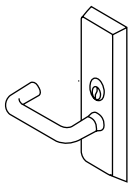
623F, 627F trim



627F



623F

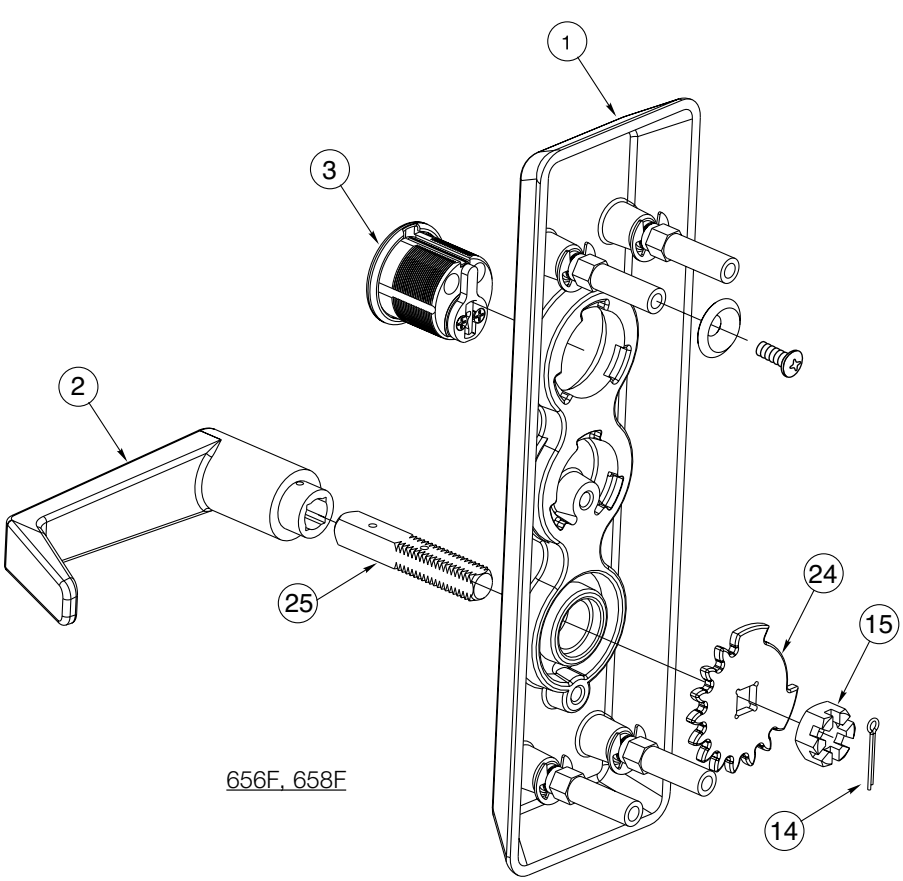
	
Knob Access by Key	**Lever Access by Key**
03	03
623F	627F

652F, 654F, 656F, 658F trim

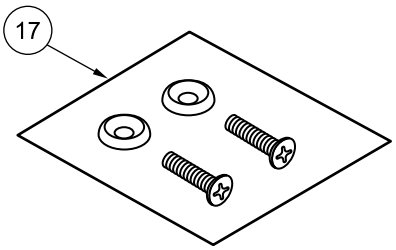
Item	Part No.	Description
1		Escutcheon Assembly
	60-7000-0703-FIN	Cylinder x Lever (656F) or Knob (652F)
	60-7000-0702-FIN	Blank x Lever (658F) or Knob (654F)
2	***See Chart page 60***	Lever
3	***See Chart Page 61***	Cylinder, Mortise*
14	99-9958-0047-999	Cotter Pin
15	99-9999-3518-999	Nut, Spindle
16	60-7000-9001-999	Thimble Insert, Nylon (Levers) ***Not Shown***
17	81-9500-1476-FIN	Screw Packet, Mtg.
		Consists of the following:
	81-0013-0670-FIN	Screw, 1/4-20 x 1 OPHMS (2)
	99-9999-7156-FIN	Washer, #14 Finish (2)
23	60-9958-0047-999	Washer, Spindle
24	60-7000-1328-048	Gear
25		Spindle
	60-7030-1045-048	1-3/4" - 2-1/4"
	60-7030-1026-048	2-1/4" - 3"

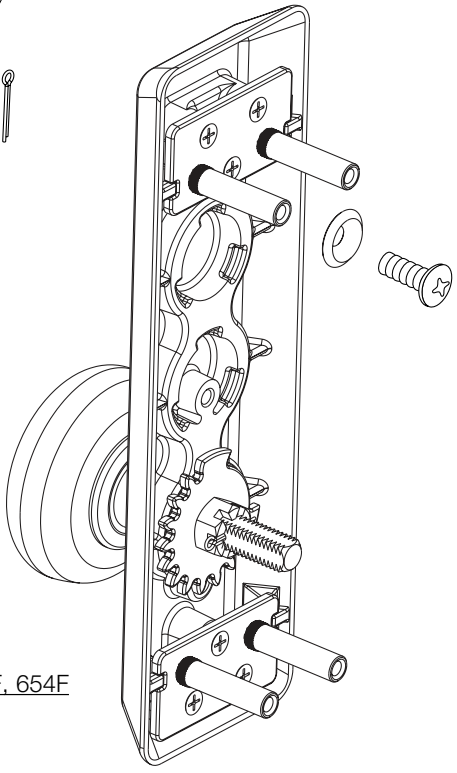
* See page 61 for cylinder collar applications

652F, 654F, 656F, 658F trim

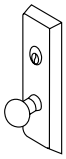
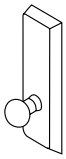
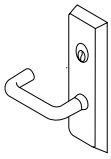
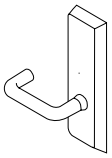


656F, 658F





652F, 654F

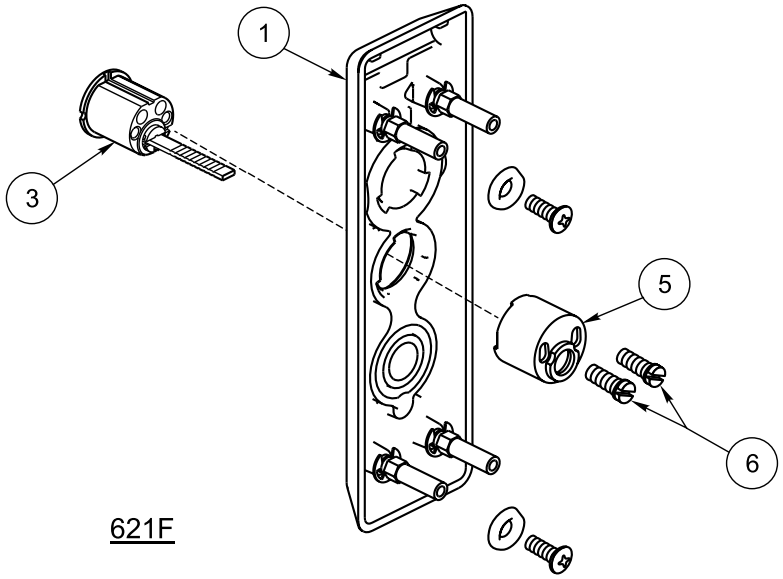
						
Classroom/ Storeroom	**Nightlatch**	**Passage Active Knob**	**Dummy Trim Rigid Knob**	**Cylinder Controls Lever**	**(DT) Rigid Lever**	**(Passage) Active Lever or (DT) Free Wheeling Lever**
08/09	03	14	02	08/09	02	—
652F		654F		656F	658F	658F

620F, 621F, 651F trim

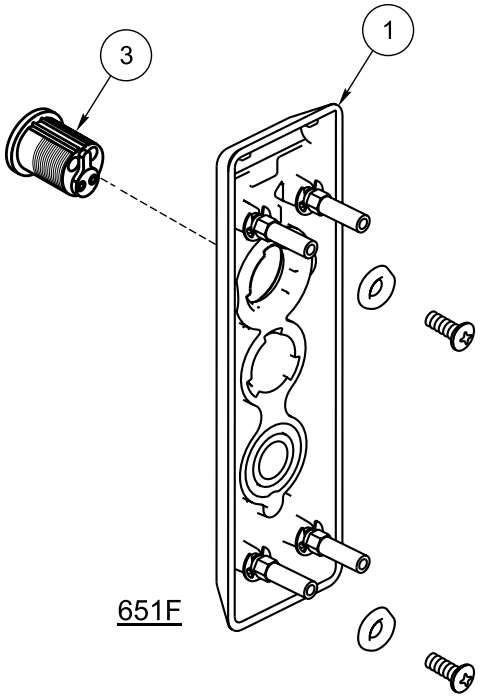
Item	Part No.	Description
1		Escutcheon Assembly
	60-7000-0648-FIN	620F
	60-7000-0614-FIN	621F
	60-7030-0193-FIN	651F
3	***See Chart Page 61***	Cylinder, Rim or Mortise*
5	60-2000-6206-082	Housing, Cylinder 621F
6	60-7000-1235-048	Screw, Cylinder 621F Mounting (2)
17	81-9500-1476-FIN	Screw Packet, Mtg.
		Consists of the following:
	81-0013-0670-FIN	Screw, 1/4-20 x 1 OPHMS (2)
	99-9999-7156-FIN	Washer, #14 Finish (2)

* See page 61 for cylinder collar applications.

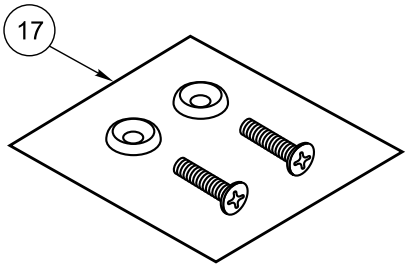
620F, 621F, 651F trim

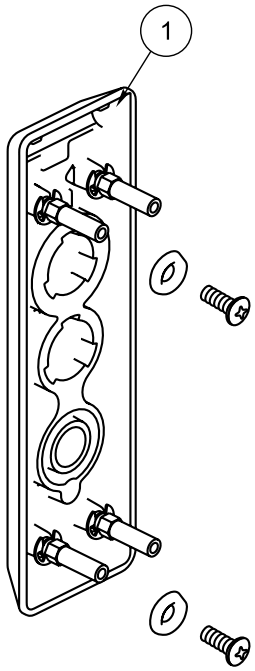


621F



651F





620F

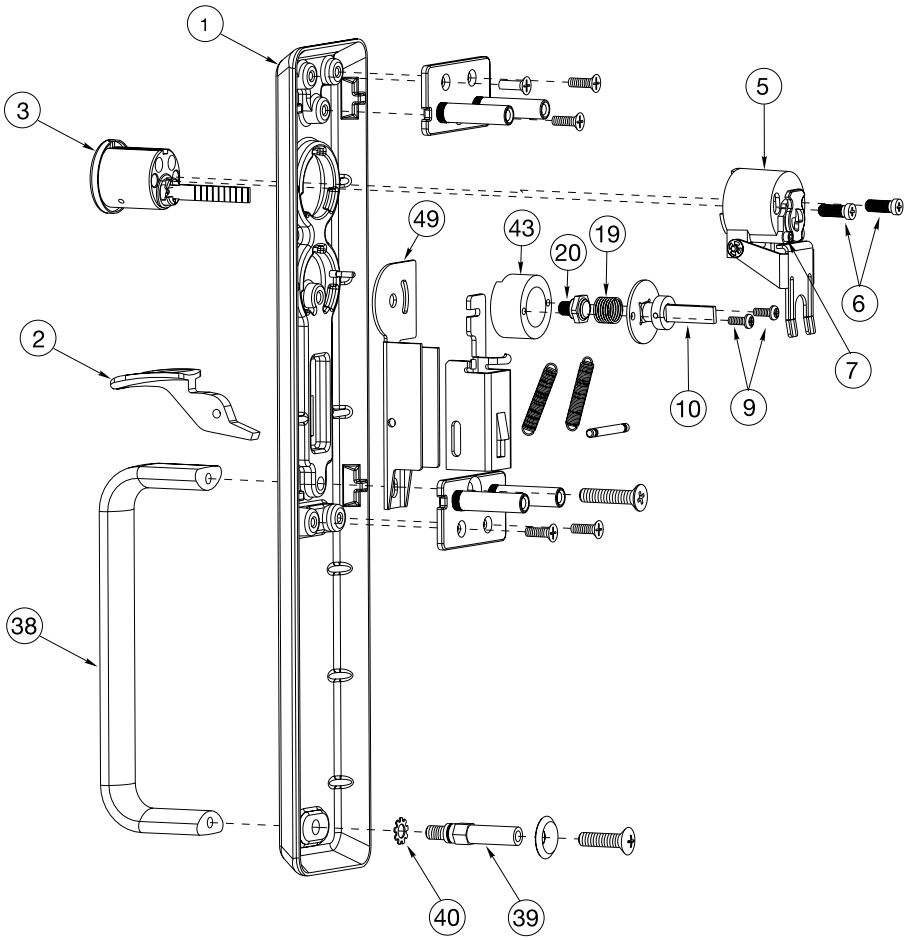
(EO) Blank Plate	**(NL) Access by Key**	**(NL) Access by Key**
01	03	07
620F	621F	651F

633F, 635F trim

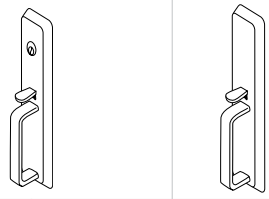
Item	Part No.	Description
1		Escutcheon Assembly
	60-7000-0715-FIN	633F
	60-7000-0714-FIN	635F
2	60-7000-X192-FIN	Thumbpiece
3	***See Chart Page 61***	Cylinder, Rim* (633F)
5	60-7000-0215-000	Housing & Cam Assembly
6	60-7000-1235-048	Screw, Cylinder Mounting (2)
7	81-0016-2200-999	Screw, NL Function
9	81-4414-0308-036	Screw, Tailpiece Plate, #6 x 3/8 PHT-T-PH (2)
10	60-7000-0611-059	Tailpiece Assembly
17	81-9500-1476-FIN	Screw Packet, Mtg.
		Consists of the following:
	81-0013-0670-FIN	Screw, 1/4-20 x 1OPHMS (3)
	99-9999-7156-FIN	Washer, #14 Finish (3)
19	60-7000-1306-999	Spring Under Tailpiece
20	60-7000-1305-059	Hex Nut/Bushing for Spring
38	60-0010-2639-FIN	Pull, Straight
39	60-7000-1039-048	Screw Post
40	99-9999-7154-036	Lock Washer, Screw Post
41	99-9999-5697-999	Spring, Thumbpiece (2)
42	60-7000-1190-059	Slider, Thumbpiece
43	60-7000-0214-000	Housing, Tailpiece Assy.
48	60-7000-1045-059	Pin, Thumbpiece
49	60-7000-1189-059	Thumbpiece Support Bracket

* See page 61 for cylinder collar applications.

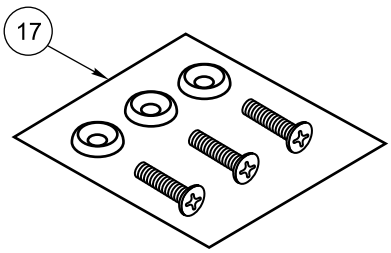
633F, 635F trim

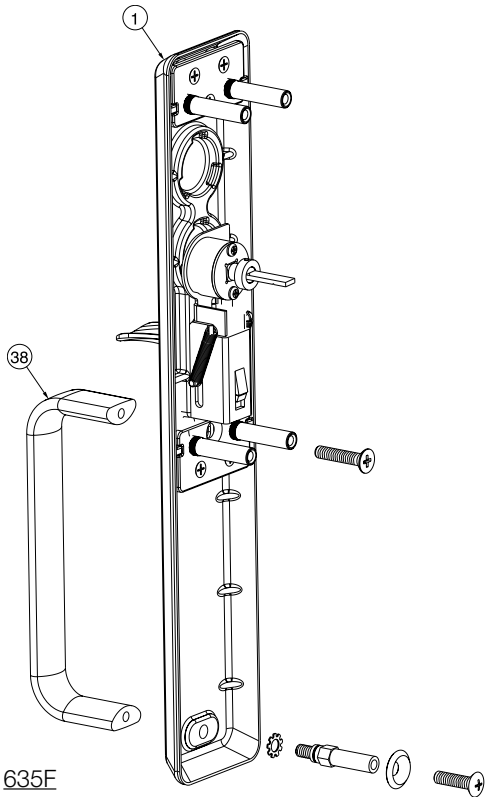


633F



Cylinder Controls T-Piece	Access by Key and T-Piece	(Passage) Active T-Piece
05	06	_
633F	633F	635F





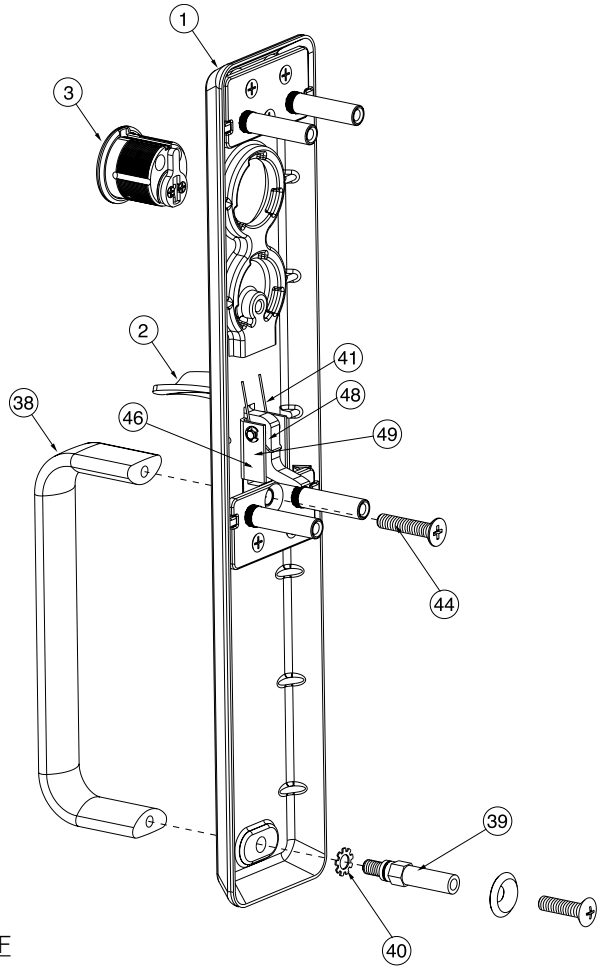
635F

673F, 675F trim

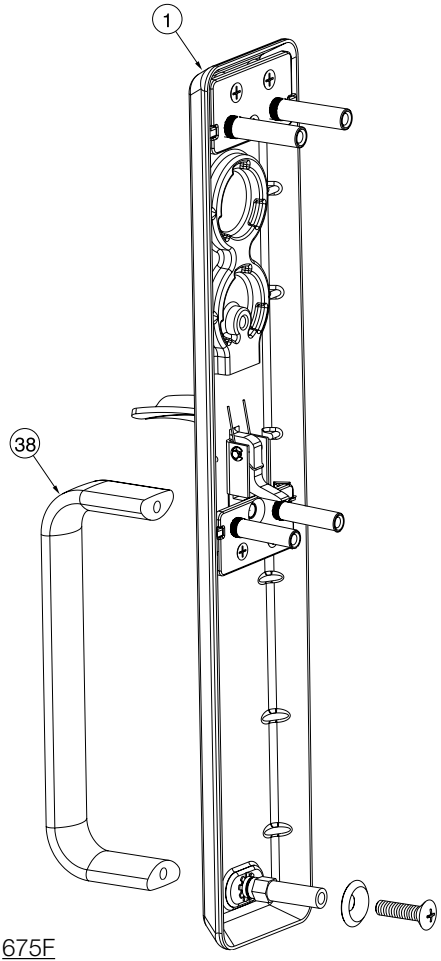
Item	Part No.	Description
1		Escutcheon Assembly
	60-7000-0718-FIN	673F
	60-7000-0717-FIN	675F
2	60-1530-X114-FIN	Thumbpiece
3	***See Chart Page 61***	Cylinder, Mortise* 673F
17		Screw Packet, Mtg.
	81-9500-1405-FIN	1-3/4" - 2" Doors
	81-9500-1453-FIN	2-1/4" Doors
38	60-0010-2639-FIN	Pull, Straight
39	60-7000-1039-048	Screw Post
40	99-9999-7154-036	Lock Washer, Screw Post (2)
41	60-1530-1133-999	Spring, Thumbpiece
44	81-0011-0674-036	Screw, 1/4-20 x 1-1/4 FHPMS
45	60-7000-1460-048	Thumbpiece, Trim Spacer ***(Not Shown)***
46	60-1500-1806-059	Bracket, Thumbpiece
48	60-1500-7244-000	Pin, Thumbpiece
49	99-9999-4517-999	Tru-Arc Ring

*See page 61 for cylinder collar applications.

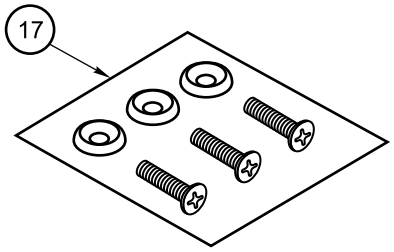
673F, 675F trim

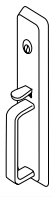
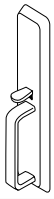


673F



675F



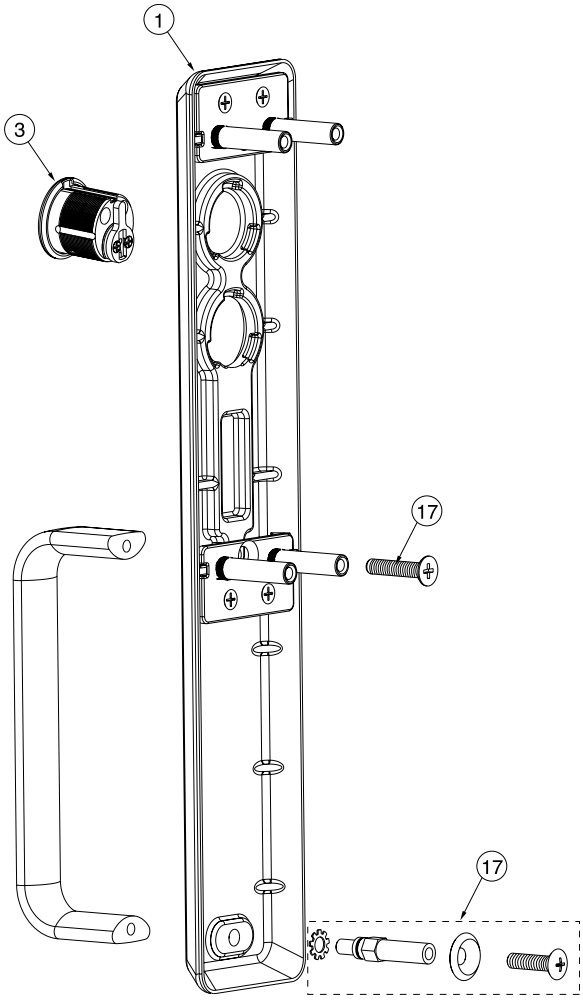
	
Cylinder Controls Lever	**(Passage) Active T-Piece**
05	—
673F	675F

632F, 634F, 662F trim

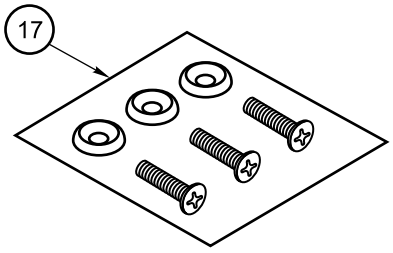
Item	Part No.	Description
1		Escutcheon Assembly
	60-7000-0713-FIN	632F
	60-7000-0711-FIN	634F
	60-7000-0717-FIN	662F
3	***See Chart Page 61***	Cylinder, Mortise or Rim*
5	60-2000-6206-082	Housing, Cylinder
6	60-7000-1235-048	Screw, Cylinder Mtg. (2)
17	81-9500-1467-FIN	Screw Packet, Mtg.
		Consists of the following:
	60-7000-1039-048	Threaded Post (1)
	81-0011-0674-036	1/4-20 x5/8" (1) RHPMS
	81-0013-0670-FIN	1/4-20 x1" (3) OHPMS
	99-9999-7156-FIN	Washer #14 Finish (3)

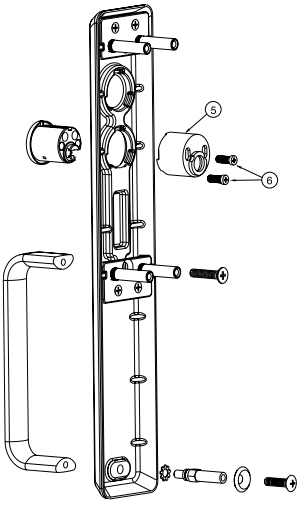
*See page 61 for cylinder collar applications.

632F, 634F, 662F trim

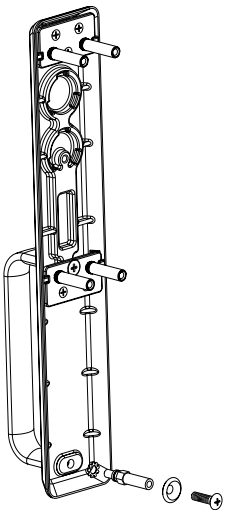


662F

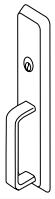
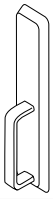
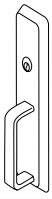




632F



634F

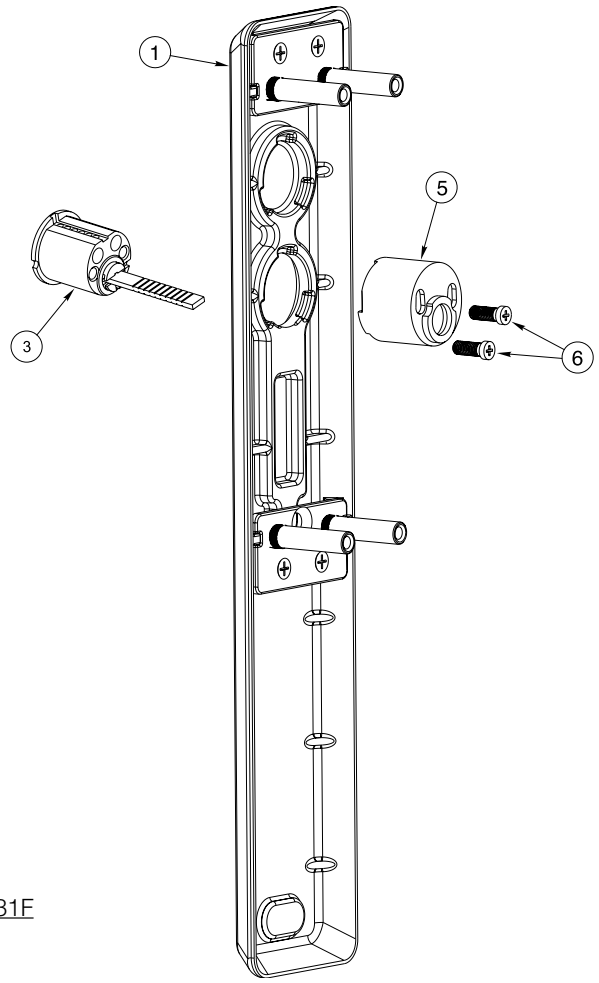
		
(NL) Cylinder by Pull	**(DT) Full Plate**	**(NL) Cylinder by Pull**
03	02	03
632F	634F	662F

630F, 631F, 661F trim

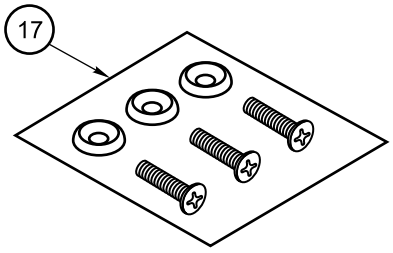
Item	Part No.	Description
1		Escutcheon Assembly
	60-7000-0710-FIN	630F
	60-7000-0712-FIN	631F
	60-7000-0716-FIN	661F
3	***See Chart Page 61***	Cylinder, Mortise or Rim*
5	60-2000-6206-082	Housing, Cylinder, Rim
6	60-7000-1235-048	Screw, Cylinder Mtg. (2)
17	81-9500-1405-FIN	Screw Packet, Mtg.
		Consists of the following:
	81-0013-0670-FIN	Screw, 1/4-20 x 1OPHMS (3)
	99-9999-7156-FIN	Washer, #14 Finish (3)

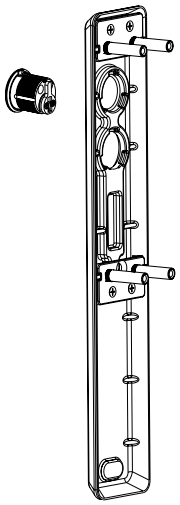
*See page 61 for cylinder collar applications.

630F, 631F, 661F trim

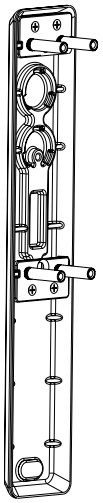


631F





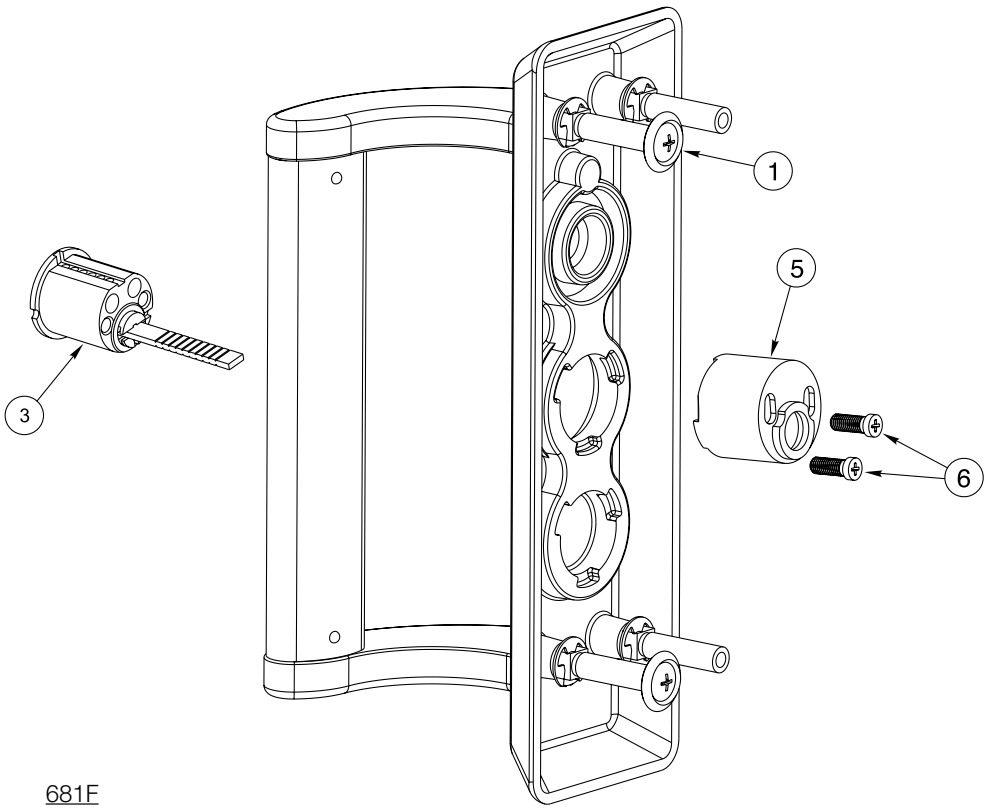
661F



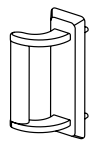
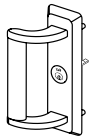
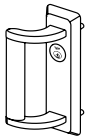
630F

(BT) Blank Plate	**(NL) Access by Key**	**(NL) Access by Key**
01	03	03
630F	631F	661F

680F, 681F, 684F trim



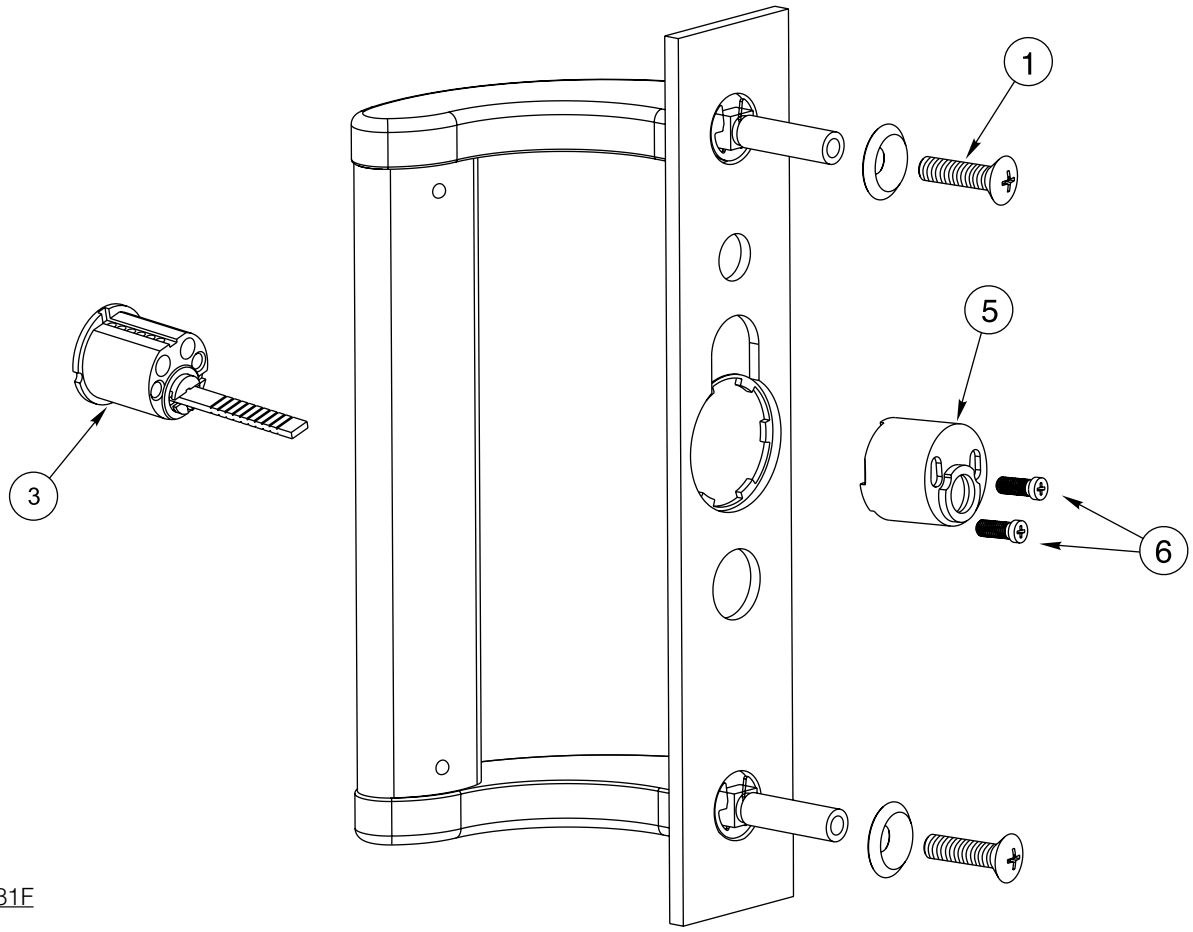
681F

		
Dummy Pull	**Nightlatch**	**Mortise Nightlatch**
02	03	03
680F	681F	684F

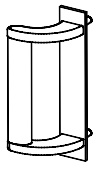
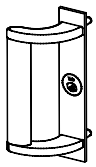
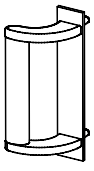
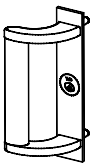
Item	Part No.	Description
1	81-9500-1476-FIN	Screw Packet, Mtg.
		Consists of the following:
	81-0013-0670-FIN	Screw 1/4-20 x 1 OPHMS(2)
	99-9999-7156-FIN	Washer #14 Finish (2)
3	See Chart Page 61	Cylinder, Rim or Mortise
5	60-2000-6206-082	Housing, Cylinder (681F)
6	60-7000-1235-048	Screw, Cylinder Mtg. (2)

Note: Handle and Escutcheon sold as assembly only.

480F, 481F, 482F, 483F trim



481F

			
Dummy Pull	**Nightlatch**	**Dummy Pull (Special lengths)**	**Nightlatch (Special lengths)**
02	03	02	03
480F	481F	482F	483F

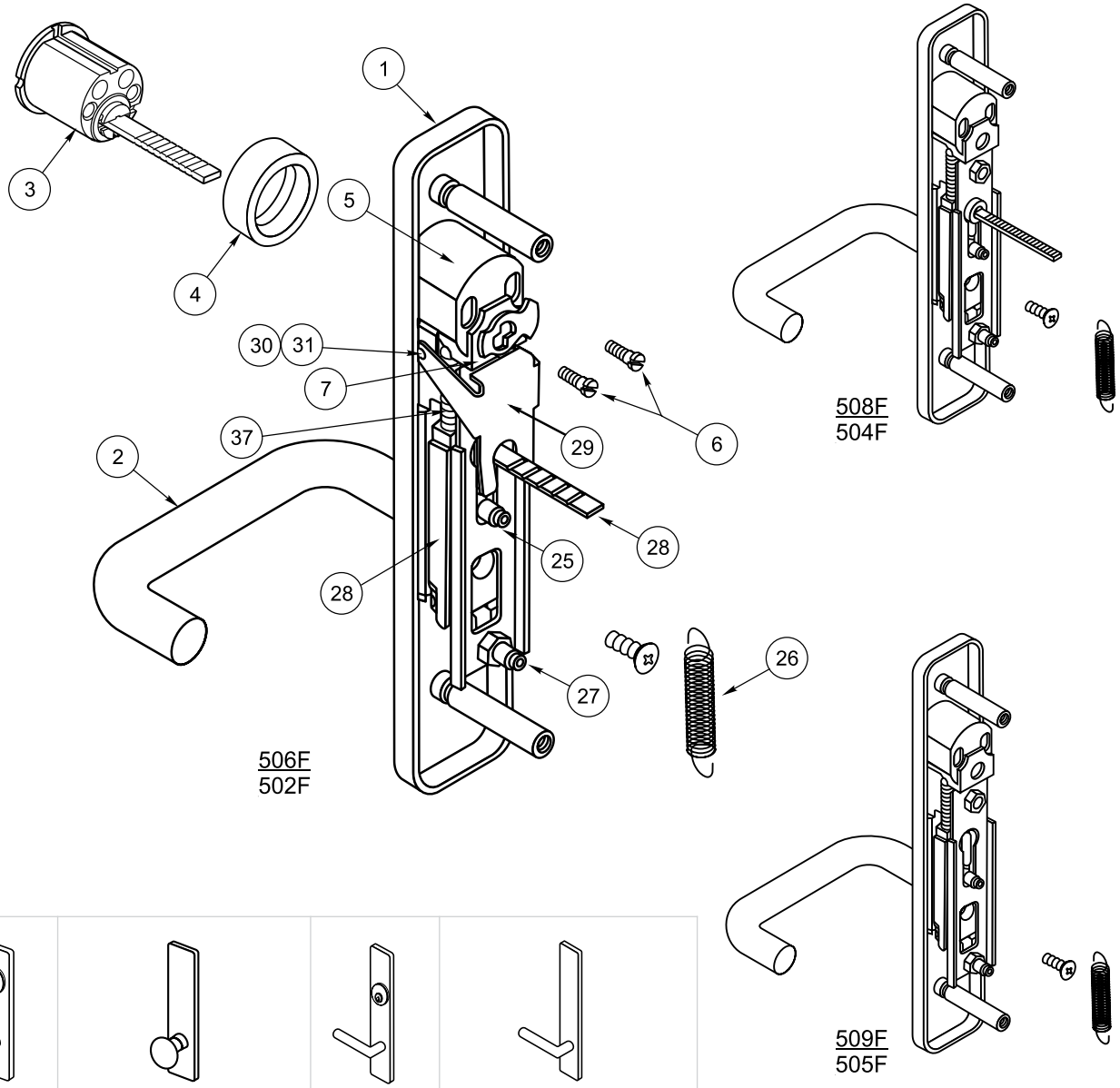
Item	Part No.	Description
1	81-9500-1476-FIN	Screw Packet, Mtg.
		Consists of the following:
	81-0013-0670-FIN	Screw 1/4-20 x 1 OPHMS(2)
	99-9999-7156-FIN	Washer #14 Finish (2)
3	See Chart Page 61	Cylinder, Rim
5	60-2000-6206-082	Housing, Cylinder (481F)
6	60-7000-1235-048	Screw, Cylinder Mtg. (2)

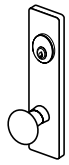
Note: Handle and Escutcheon sold as assembly only.

502F, 504F, 505F, 506F, 508F, 509F trim

Item	Part No.	Description
1		Escutcheon Assembly
	60-7200-0128-FIN	502F, 506F
	60-7200-0129-FIN	504F, 505F, 508F, 509F
2	***See Chart page 60***	Lever/Knob
3	***See Chart Page 61***	Rim Cylinder
4	***See Chart Page 61***	Cylinder Collar
5		Housing & Cam Assembly
	60-7200-0159-000	502F, 506F-Housing,Cyl.
	60-7200-6145-082	504F, 505F, 508F, 509F
6	60-7000-1235-048	Screw, Cylinder Mounting (2)
7	81-0016-2200-999	Screw, NL Function
16	60-7000-9001-999	Thimble Insert, Nylon ***Not Shown***
19	60-7000-1306-999	Spring Under Tailpiece ***Not Shown***
25	60-7200-1120-059	Plate, Cover
26	99-9999-5702-999	Spring, Extension (Levers Only)
27	60-7200-1125-059	Nut, Spring Post (Levers Only)
28		Rack & Tailpiece Assy.
	60-7200-0164-000	Levers/Knobs
29	60-7200-1147-059	Lever, Clutch
30	60-7200-1083-059	Pin, Clutch Lever
31	99-9999-4617-999	Retainer, Clutch Lever Pin (2)
32	99-9999-3508-036	Nut, Cover Plate (2) ***Not Shown***
33	60-7200-1142-000	Hub Not Shown
34	99-9999-0246-999	Bushing, Nylon ***Not Shown***
35	60-7200-1104-059	Washer, Grip ***Not Shown***
36	81-0611-0410-036	Screw, 8-32 x 7/16, Spindle ***Not Shown***
37		Spring, Rack (2)
	60-7200-1134-000	Lever
	60-7200-1133-000	Knob, Thumbturn

502F, 504F, 505F, 506F, 508F, 509F trim

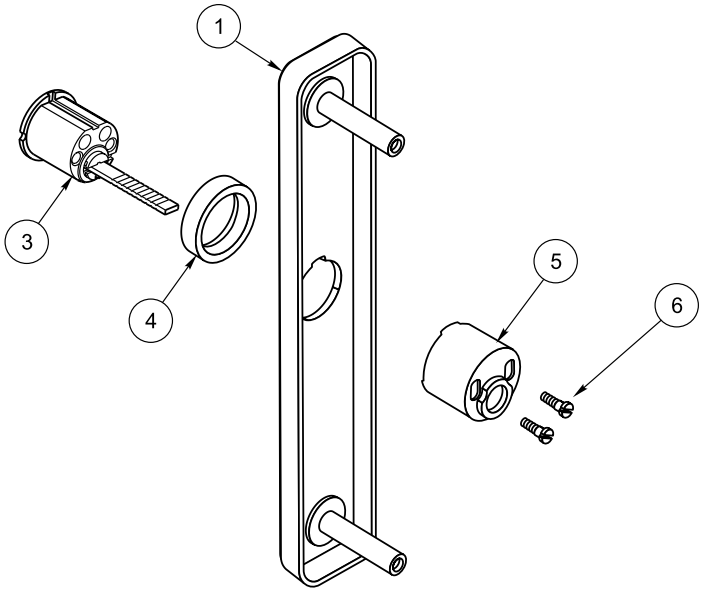


					
Cylinder Controls Knob	**Passage Trim Knob**	**Rigid Dummy Knob**	**Cylinder Controls Lever**	**Passage Trim Lever**	**Rigid Dummy Lever**
09	—	02	08	—	02
502F	504F	505F	506F	508F	509F

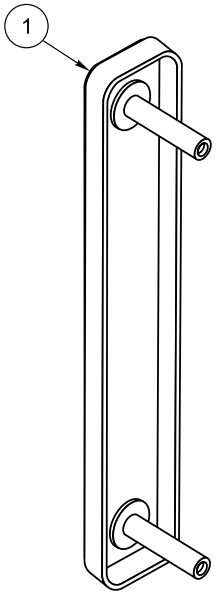
500F, 501F, 503F, 507F trim

Item	Part No.	Description
1		Escutcheon Assembly
	60-7200-0151-FIN	500F
	60-7200-0123-FIN	501F
	60-7200-0127-FIN	503F
	60-7200-0126-FIN	507F
2	60-7200-0156-FIN	Thumbturn / Spindle Assembly
3	***See Chart Page 61***	Cylinder, Rim
4	***See Chart Page 61***	Collar, Cylinder
5		Housing & Cam Assembly
	60-7200-0159-000	503F, 507F
	60-2000-6206-082	501F, Housing, Cylinder
6	60-7000-1235-048	Screw, Cylinder Mounting (2)
7	81-0016-2200-999	Screw, NL Function
16	60-7000-9001-999	Thimble Insert, Nylon ***Not Shown***
19	60-7000-1306-999	Spring Under Tailpiece for 503F, 507F ***Not Shown***
25	60-7200-1120-059	Plate, Cover
28	60-7200-0164-000	Rack & Tailpiece Assembly
29	60-7200-1147-059	Lever, Clutch (503F)
30	60-7200-1083-059	Pin, Clutch Lever (503F)
31	99-9999-4617-999	Retainer, Clutch Lever Pin (2) (503F)
32	99-9999-3508-036	Nut, Cover Plate (2)
33	60-7200-1142-000	Hub Not Shown
34	99-9999-0246-999	Bushing, Nylon ***Not Shown***
35	60-7200-1104-059	Washer, Grip ***Not Shown***
36	81-0611-0410-036	Screw, 8-32 x 7/16 Spindle ***Not Shown***
37	60-7200-1133-000	Spring, Rack (2)

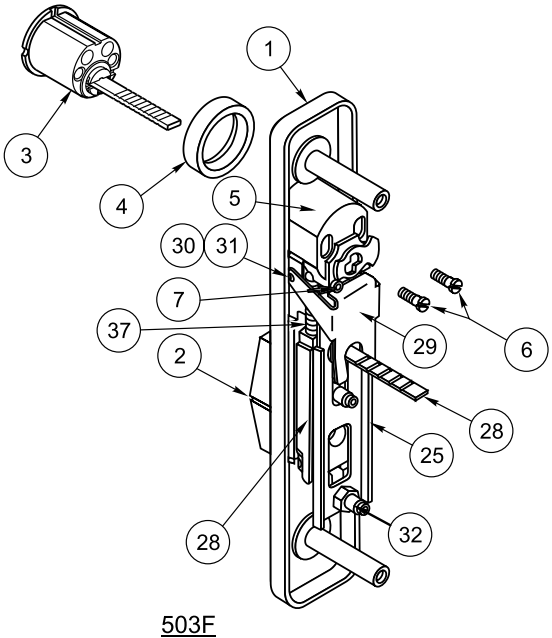
500F, 501F, 503F, 507F trim



501F



500F



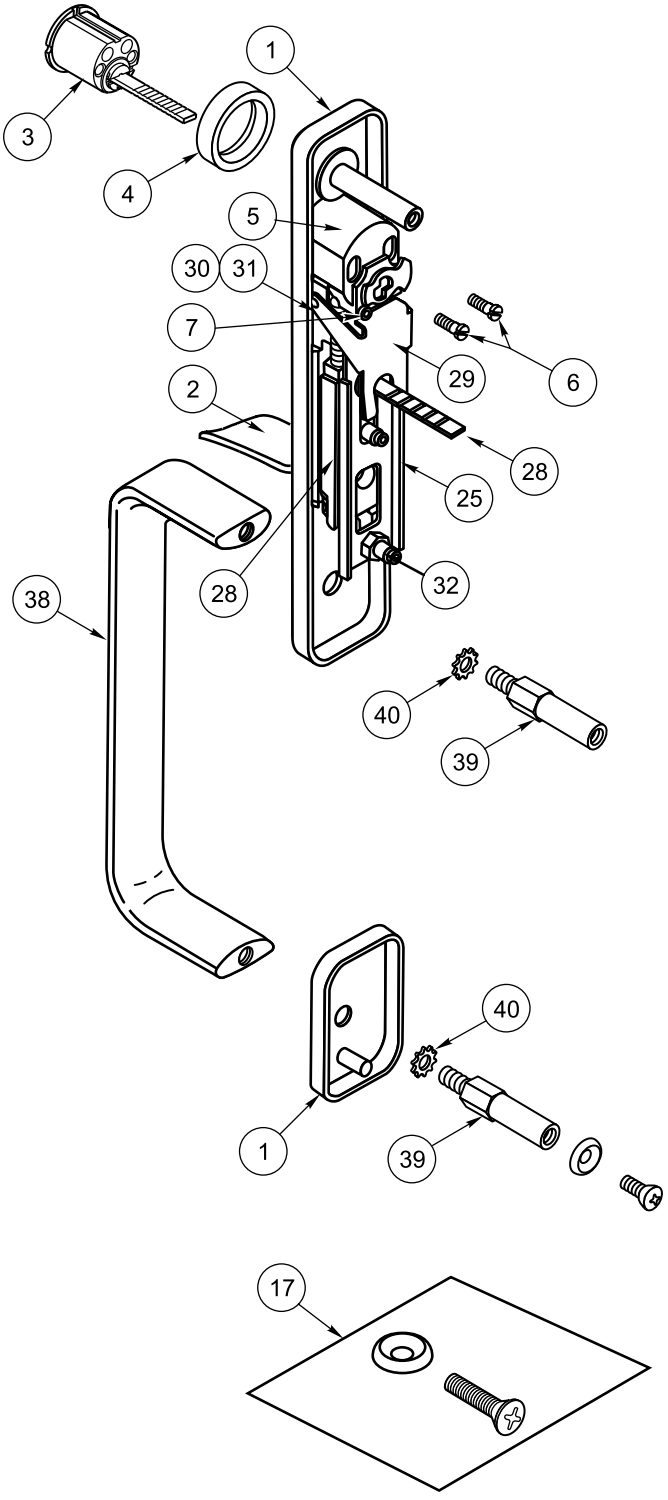
503F
507F

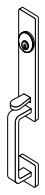
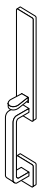
(EO) Blank Plate	**(NL) Access by Key**	**Cylinder Controls Thumbturn**	**Passage Active Turn**
—	03	11/12	—
500F	501F	503F	507F

518F, 519F trim

Item	Part No.	Description
1		Escutcheon Assembly
	60-7200-0162-FIN	519F Top
	60-7200-0163-FIN	518F Top
	60-7200-0120-FIN	Bottom
2	60-7000-X192-FIN	Thumbpiece
3	***See Chart Page 61***	Cylinder, Rim
4	***See Chart Page 61***	Collar, Cylinder
5	60-7200-0361-000	Housing, Cylinder
6	60-7000-1235-048	Screw, Cylinder Mounting (2)
7	81-0016-2200-999	Screw, NL Function
	60-7000-9001-999	Thimble Insert, Nylon ***Not Shown***
	81-9500-1476-FIN	Screw Packet, Mtg.
		Consists of the following:
	81-0013-0670-FIN	Screw, 1/4-20 x 1 OPHMS (1)
	99-9999-7156-FIN	Washer, #14 Finish (1)
19	60-7000-1306-999	Spring Under Tailpiece 518F ***Not Shown***
25	60-7200-1120-059	Plate, Cover
28	60-7200-0360-000	Rack & Tailpiece Assy
29	60-7200-1147-059	Lever, Clutch (518F)
30	60-7200-1083-059	Pin, Clutch Lever (518F)
31	99-9999-4617-999	Retainer, Clutch Lever Pin (2) (518F)
32	99-9999-3508-036	Nut, Cover Plate (2)
33	60-7200-1142-000	Hub ***Not Shown***
35	60-7200-1104-059	Washer, Grip ***Not Shown***
37	60-7200-1133-000	Spring, Rack (2) ***Not Shown***
38	60-7200-X136-FIN	Pull, Offset
39	60-7000-1039-048	Screw Post (2)
40	99-9999-7154-036	Lockwasher, Screw
50	99-9958-0044-999	Pin, 5/32 x 1-1/8, Groove ***Not Shown***

518F, 519F trim

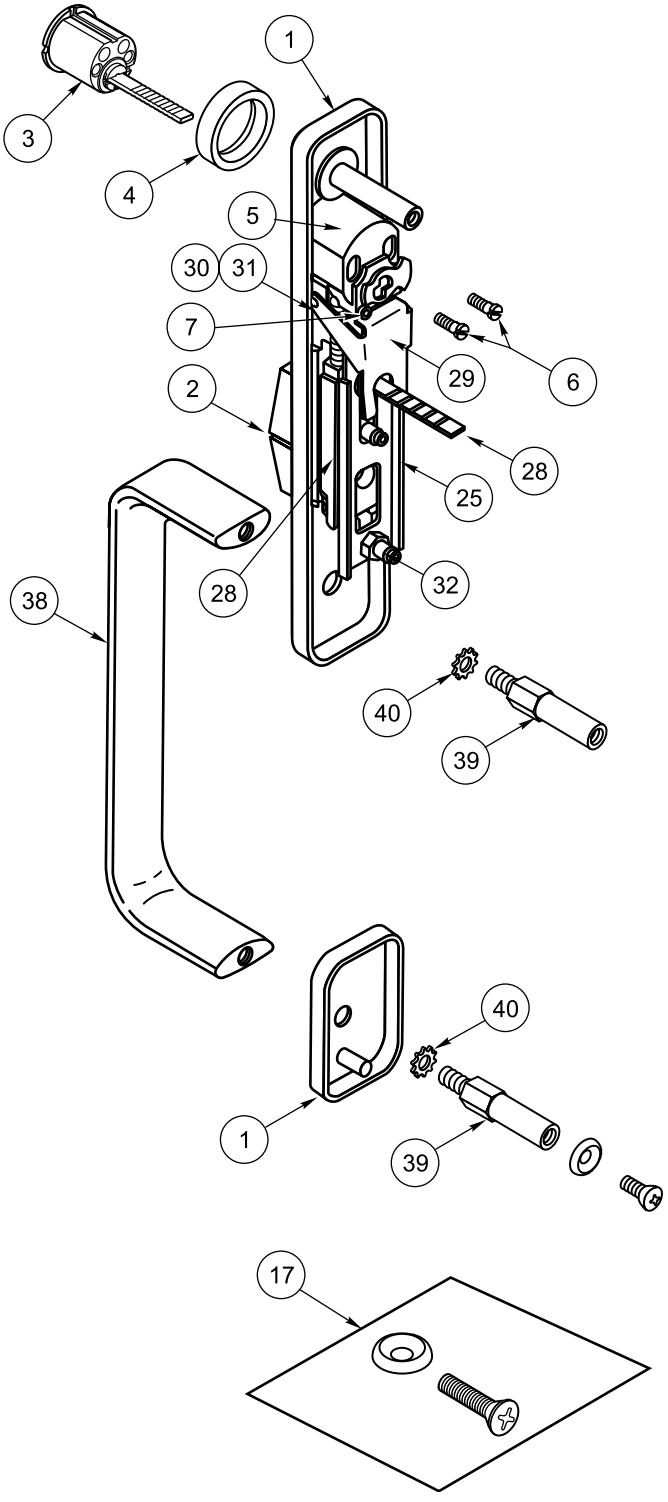


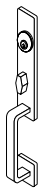
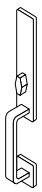
	
Cylinder Controls T-Piece	**Passage Active T-Piece**
05/06	—
518F	519F

513F, 517F trim

Item	Part No.	Description
1		Escutcheon Assembly
	60-7200-0154-FIN	513F Top
	60-7200-0155-FIN	517F Top
	60-7200-0120-FIN	Bottom
2	60-7200-0156-FIN	Thumbturn/Spindle Assy.
3	See Chart Page 61	Cylinder, Rim
4	See Chart Page 61	Collar, Cylinder
5		Housing , Cylinder
	60-7200-0159-000	513F
	60-7200-6145-082	517F
6	60-7000-1235-048	Screw, Cylinder Mounting (2)
7	81-0016-2200-999	Screw, NL Function
16	60-7000-9001-999	Thimble Insert, Nylon ***Not Shown***
17	81-9500-1476-FIN	Screw Packet, Mtg.
		Consists of the following:
	81-0013-0670-FIN	Screw, 1/4-20 x 1 OPHMS (1)
	99-9999-7156-FIN	Washer, #14 Finish (1)
19	60-7000-1306-999	Spring Under Tailpiece 513F ***Not Shown***
25	60-7200-1120-059	Plate, Cover
28	60-7200-0164-000	Rack & Tailpiece Assy
29	60-7200-1147-059	Lever, Clutch (513F)
30	60-7200-1083-059	Pin, Clutch Lever (513F)
31	99-9999-4617-999	Retainer, Clutch Lever Pin (2) (513F)
32	99-9999-3508-036	Nut, Cover Plate (2)
33	60-7200-1142-000	Hub (Not Shown)
34	99-9999-0246-999	Bushing, Nylon ***Not Shown***
35	60-7200-1104-059	Washer, Grip ***Not Shown***
37	60-7200-1133-000	Spring, Rack (2) ***Not Shown***
38	60-7200-X136-FIN	Pull, Offset
39	60-7000-1039-048	Screw Post (2)
40	99-9999-7154-036	Lockwasher, Screw Post (2)
50	99-9958-0044-999	Pin, 5/32 x 1-1/8, Groove ***Not Shown***

513F, 517F trim

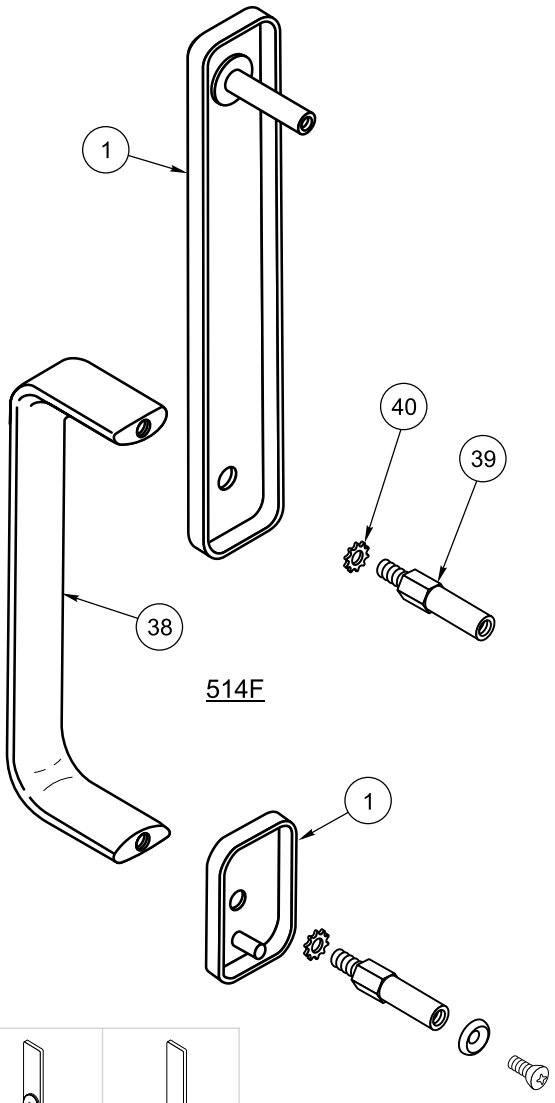


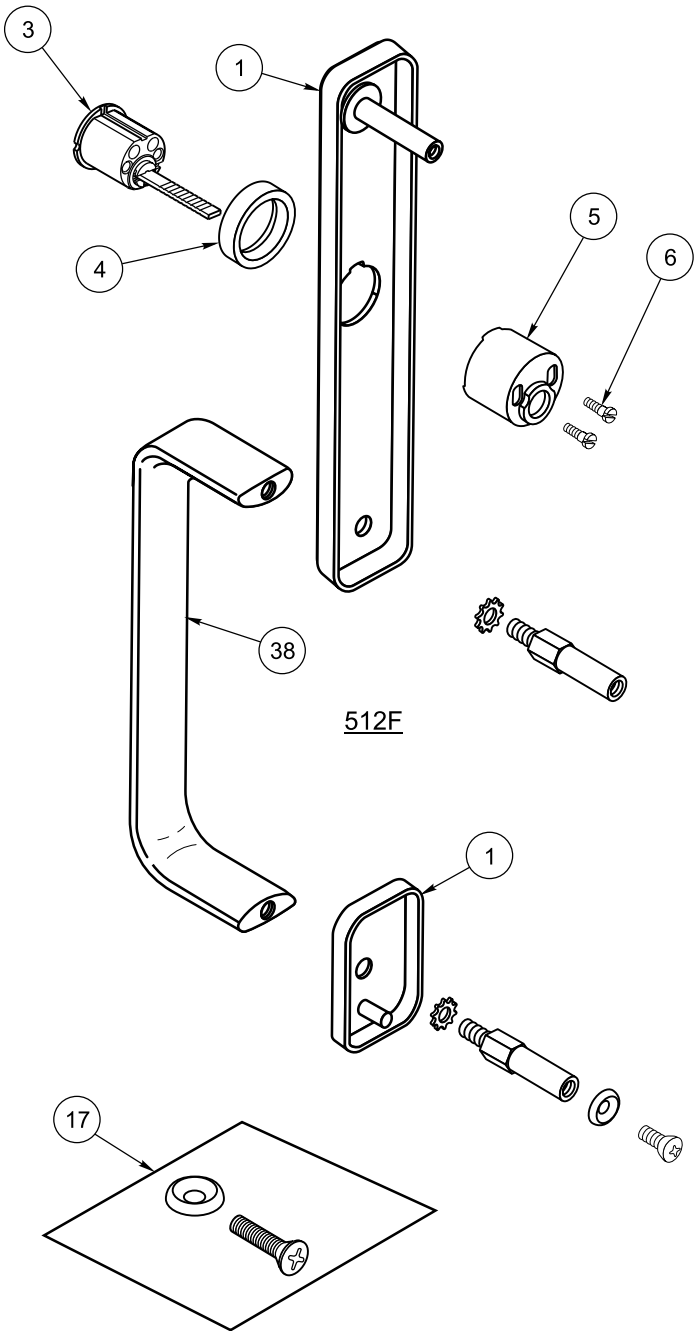
	
Cylinder Controls T-Turn	**(Passage) Active T-Turn**
11/12	—
513F	517F

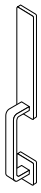
512F, 514F trim

Item	Part No.	Description
1		Escutcheon Assembly
	60-7200-0165-FIN	512F Top
	60-7200-0172-FIN	514F Top
	60-7200-0120-FIN	Bottom
3	See Chart Page 61	Cylinder, Rim
4	See Chart Page 61	Collar, Cylinder
5	60-2000-6206-082	Housing, Cylinder
6	60-7000-1235-048	Screw, Cylinder Mounting (2)
17	81-9500-1476-FIN	Screw Packet, Mtg.
		Consists of the following:
	81-0013-0670-FIN	Screw, 1/4-20 x 1 OPHMS (1)
	99-9999-7156-FIN	Washer, #14 Finish (1)
38	60-7200-X136-FIN	Pull, Offset
39	60-7000-1039-048	Screw Post (2)
40	99-9999-7154-036	Lockwasher, Screw Post (2)

512F, 514F trim



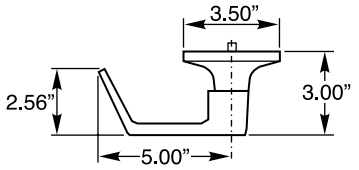


	
(NL) Cylinder by Pull	**(DT) Pull Plate**
03	02
512F	514F

541F, 546F, 548F, 549F trim

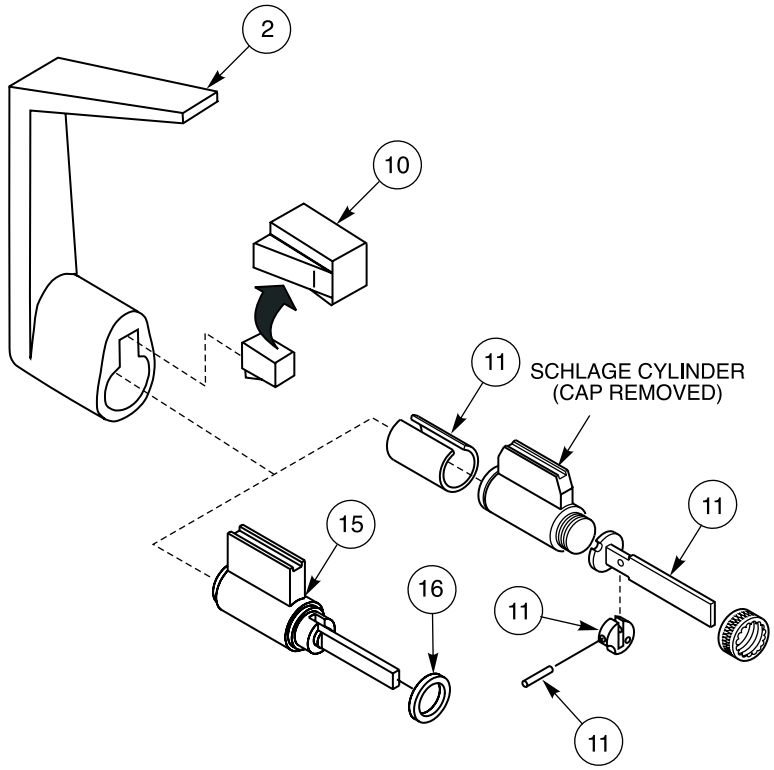
Item	Part No.	Description
1	14-5401-2711-FIN	Rose Scalp
		Lever
		Plain
	14-5401-6640-FIN	AU - Augusta
	14-5403-6650-FIN	MO - Monroe
	14-5403-6651-FIN	PB - Pacific Beach
		Cylinder
	14-5407-6038-FIN	AU - Augusta
	14-5407-6042-FIN	MO - Monroe
	14-5407-6062-FIN	PB - Pacific Beach
		Yale I/C (6 Pin)
2	14-5407-6021-FIN	AU - Augusta
	14-5407-6045-FIN	MO - Monroe
	14-5407-6065-FIN	PB - Pacific Beach
		Yale I/C (7 Pin)
	14-5407-6022-FIN	AU - Augusta
	14-5407-6042-FIN	MO - Monroe
	14-5407-6066-FIN	PB - Pacific Beach
		Best, Arrow, Falcon SFIC (6 & 7 Pin)
	14-5407-6056-FIN	AU - Augusta
	14-5407-6048-FIN	MO - Monroe
	14-5407-6068-FIN	PB - Pacific Beach
7	14-5407-1102-000	Tool, Lever Removal ***Not Shown***
11	107S	Schlage® Retrofit Kit
15	***See Chart Page 61***	Cylinder
16	14-5407-9201-999	Spacer, Cylinder

541F, 546F, 548F, 549F trim



(NL) Access by Key	Cylinder Control Lever	(DT) Free Wheeling Lever	Passage Lever	(DT) Rigid Lever
03	08	02	—	02
541F	546F	548F	548F	549F

Note: Available as assemblies only.



trim designs for escutcheons

AR

Arcadia
Projection: 3-1/4" (82mm)
Lever assembly:
RHR 60-7000-0097-FIN
LHR 60-7000-0098-FIN

AU

Augusta
Projection: 2-5/8" (61mm)
Lever assembly:
60-7000-0095-FIN

CR

Carmel
Projection: 3-1/8" (79mm)
Lever assembly:
60-7000-0140-FIN

JN

Jefferson
Projection: 2-9/16" (65mm)
Lever assembly:
60-7000-0093-FIN

MO

Monroe
Projection: 3" (76mm)
Lever assembly:
60-7000-0239-FIN

PB

Pacific Beach
Projection: 3-5/16" (84mm)
Lever assembly:
60-7000-0240-FIN

PN

Pinehurst
Projection: 3-1/16" (78mm)
Lever assembly:
60-7000-0198-FIN

VI

Virginia
Projection: 3-1/8" (79mm)
Lever assembly:
60-7000-0236-FIN

HA

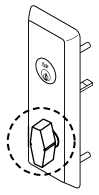
Hampton
Projection: 3-3/8" (86mm)
Lever assembly:
60-7000-0285-FIN

CO

Copenhagen
Projection: 3-1/2" (90mm)
Knob assembly:
60-7000-0062-FIN

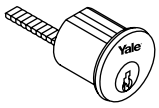
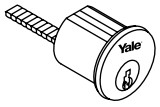
LF

Litchfield
Projection: 2-7/8" (73mm)
Knob assembly:
60-7000-0060-FIN



603F
Thumbturn Assembly:
60-7000-0157-FIN

cylinders

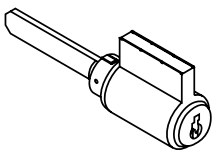
			Application:	Cylinder(s)	Description	Cylinder Ring	Mounting Screws
Rim Cylinder	**Narrow Escutcheon Trim 500F/510F Series** Rim cylinders with special #599 cylinder rings. NOT AVAILABLE with U5109 cylinder.		7200, 7200M, 7200MF Rim 7250, 7250M, 7250MF SquareBolt® 7210, 7210M, 7210MF SVR 7220, 7220M, 7220MF CVR	1109 / 5109 6-pin	Standard / Security	599-.419	60-7000-1235-048
				1109 / 5109 7-pin	Standard / Security	599-.419	60-7000-1235-048
				1193 / 5193 6-pin	I.C. / Sec. I.C.	599-.544	10-1193-1018-048
				1193 / 5193 7-pin	I.C. / Sec. I.C.	599-.544	10-1193-1018-048
				1709 6-pin	CMK Cylinder	599-.544	34-2311-8738-048
				1709 7-pin	CMK Cylinder	599-.700	34-2311-8738-048
	Escutcheon Trim 620F/630F and 600 Series Electric Trim Rim Cylinders		7100(F), Rim 7150(F) SquareBolt® 7110(F), 7170(F) SVR 7120(F), 7160(F) CVR	1109 / 5109 6-pin	Standard / Security	-----	60-7000-1235-048
				U5109 6-pin	High Security	-----	60-7000-1235-048
				1109 / 5109 7-pin	Standard / Security	-----	60-7000-1235-048
				U5109 7-pin	High Security	-----	60-7000-1235-048
				1709 6-pin	CMK Cylinder	1765-.250	34-2311-8738-048
				1709 7-pin	CMK Cylinder	1765-.250	34-2311-8738-048
				1193 / 5193 6-pin	Std. / Sec. I.C.	1765-.250	10-1193-1018-048
				1193 / 5193 7-pin	Std. / Sec. I.C.	1765-.344	10-1193-1018-048

Note: Mounting screw part numbers shown are the screws to mount the cylinder.

			Application:	Cylinder(s)	Description	Cylinder Ring
Mortise Cylinder	**Mortise Exit Devices Escutcheon Trim 650F/660F Series**		7130(F) Mortise	2153 / 5153, 6 or 7-pin, 1-1/2" (38mm)	Standard / Security	----
				2196 / 5196 6-pin	Std. I.C. / Sec. I.C.	----
				2197 / 5197 7-pin	Std. I.C. / Sec. I.C.	1765 - .062
	Keyed Removable Mullions KRM200/200F		7100(F), 7150(F), 7200, 7250, 7200M(F), 7250(F)	2153/5153*, 6 or 7-pin, 1-1/8" (29mm)	Standard / Security	-----
				2196 / 5196 6-pin	Std. I.C. / Sec. I.C.	1765-.250
				2197 / 5197 7-pin	Std. I.C. / Sec. I.C.	1765-.250
	Cylinder Dogging		Panic-rated devices	2153 , 6-pin, 1-1/8" (29mm)	Standard	----
				2153, 7-pin 1-1/4" (32mm)	Optional 7-pin	1765 - .156
				2196, 6-pin 1-1/2" (38mm)	Std. I.C. 6-pin	1765 - .406
	SecureX™ & Alarm Kit		All Exit Devices	2197, 7-pin 1-11/16" (42mm)	Std. I.C. 7-pin	1765 - .594

As with exit device trim you must order a cylinder to go with a keyed removable mullion. The Yale® keyed removable mullion accepts a standard 6-pin 2153 mortise cylinder with cam #2160. Other cylinders are optional.

*U5153 6 and 7-pin cylinders cannot be used with a keyed removable mullion.

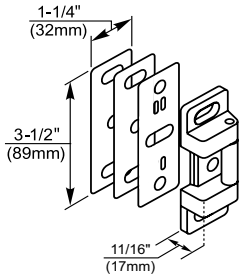
		Application:	Cylinder(s)	Description
Knob or Leverset Trim 540F Series Trim Keyed trim uses Yale® cylindrical lock cylinders.		7100(F) Rim 7150(F) ***SquareBolt*** 7110(F), 7170(F) SVR 7120(F) CVR	1801	6-pin Knob Cyl. (Std.)
			1802	6-pin Lever Cyl. (Std.)
			1802A	7-pin Lever Cylinder
			1210	6-pin I.C. Lever Cylinder
			1220	7-pin I.C. Lever Cylinder
			5802	6-pin Security Lever Cyl.
			5802A	7-pin Security Lever Cyl.
			5210	6-pin I.C. Security Cyl.
			5220	7-pin I.C. Security Cyl.
			107S	Adaptor kit for Schlage® Cyl.
			"B" Trim Prefix	Trim with lever for Best®, Arrow® or Falcon® SFIC cylinder (specify 6 or 7-pin)

*AU & PB levers only.

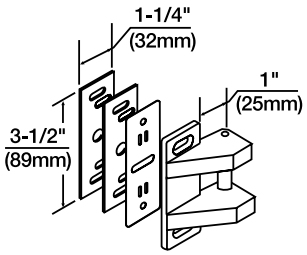
Yale® ***KeyMark***® Refer to separate catalog section for availability.

strikes

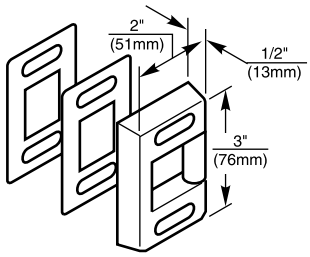
Rim Devices



757F
Standard
7100(F), 7150(F), 7200M(F), 7250M(F)

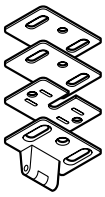


793
Optional
7100, 7150, 7200M, 7250M

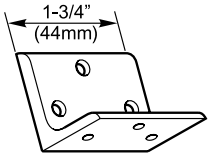


759
Standard
7200 Rim

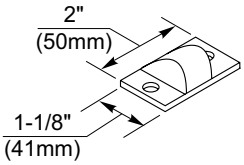
Vertical Rod Devices



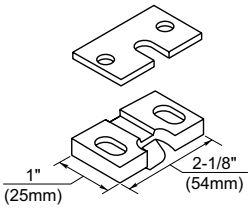
791
Standard
7110, 7120 Top



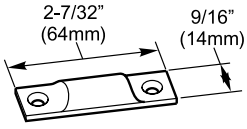
797
Bracket for SVR Top Strike
in Flush Transom Opening



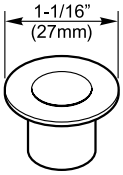
761
Standard
7160 Top



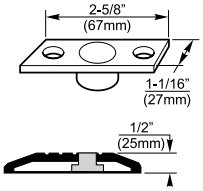
726
Standard
7170 Top



702
Floor Strike for Bottom
Pullman Latch Option

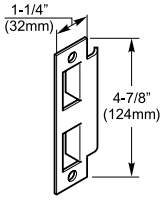


790
Standard
All Vertical Rod Devices

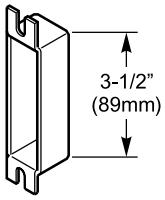


794
Floor Strike for fire openings using saddle threshold, or flush floor mount

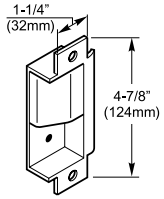
Mortise Devices



798
Standard
All Mortise (Non-Handed)



202
Standard Box
for ANSI Prep

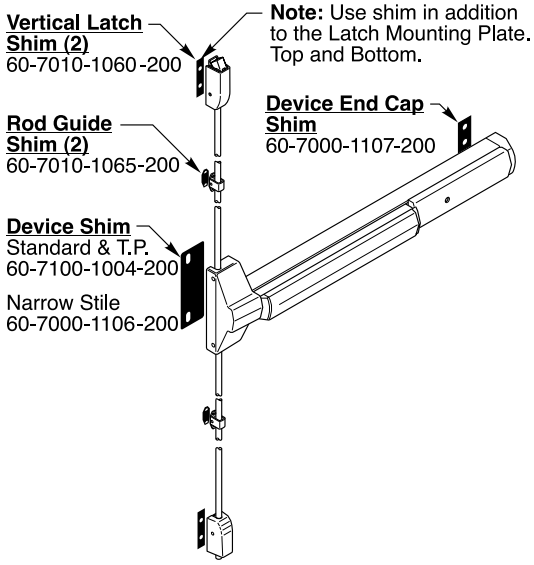


718
Open Back Strike
for Door Pair When Code Allows Use

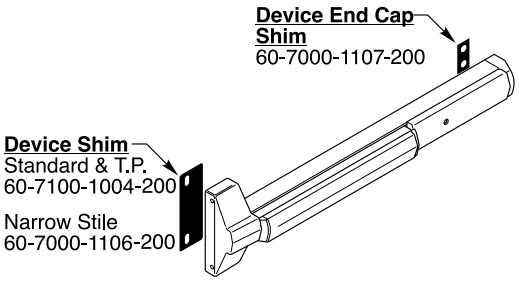
accessories

Shim Kits

724, 724NS
For Surface Vertical Rod Exit Device



723, 723NS
For Rim, Mortise, and CVR Exit Device

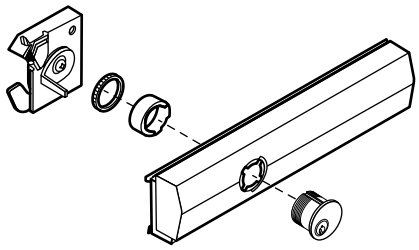


Cylinder Dogging Kits

Designed to convert a panic device from hex key dogging to cylinder dogging.

Not permitted on fire-rated devices.

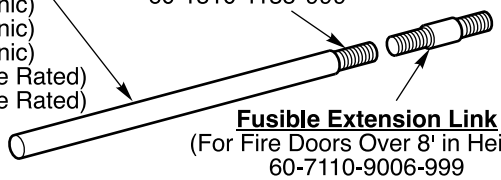
Bar Length	Part Number
36"	60-7000-0426-FIN
36" NS	60-7200-0358-FIN
48"	60-7000-0427-FIN



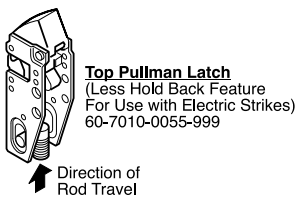
Surface and Concealed Vertical Rod Extension Kits

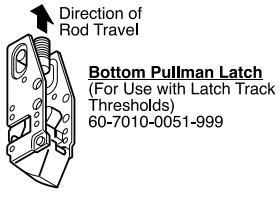
Used to extend the height of standard length rods for 7110(F)(8'max), 7120, 7160(F), 7170(F), and 7210 Series exit devices.

Rod Extension Assembly
2" 60-1510-0280-FIN (Panic)
6" 60-1510-0277-FIN (Panic)
12" 60-1510-0278-FIN (Panic)
12" 60-1510-0282-FIN (Fire Rated)
24" 60-1510-0281-FIN (Fire Rated)



Optional Vertical Latches





accessories

Anti-Pry Bracket
Model number: 725
Offers increased security by improving resistance against jamb spreading during a pry attack. When the door is in the closed position, the Anti-Pry Bracket interlocks in position between the exit device strike and frame preventing the strike and exit device latch from being separated.

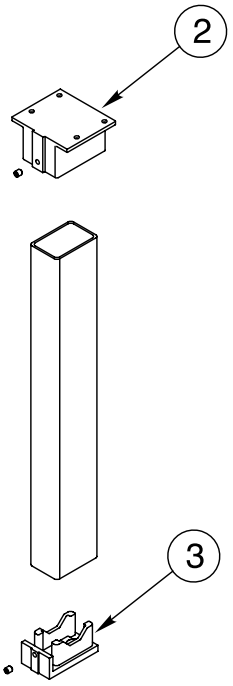
retrofit kits

Schlage® Cam and Housing Assembly
Part Number: 60-7000-0815

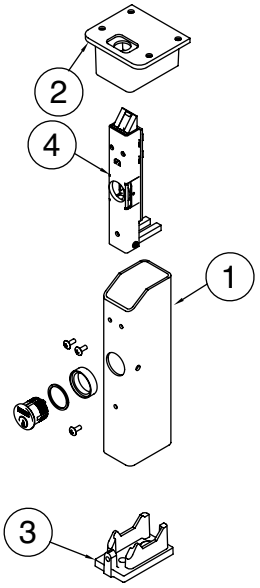
Von Duprin® Tailpiece
Part Number: 34-1145-1005-048

mullions

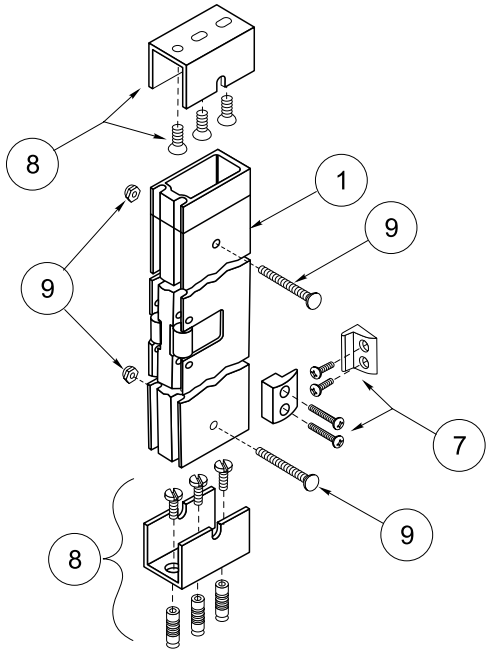
Item	Part No.	Description
1	60-7200-0011-FIN	Mullion 8' M300
2		Top Retainer Packs:
	60-7000-0759	M200(F)
	60-7000-0755	KRM200(F)
3		Bottom Retainer Packs:
	60-7000-0763	M200(F)
	60-7000-0760	KRM200(F)
4	60-7000-0750	Locking Mechanism, KRM200(F)
5	***See Chart Page 61***	Cylinder, Mortise
7	81-9500-1417-078	Stabilizer Kit (optional)
		contains:
		Bracket, Stabilizer (2)
		Stabilizer (2)
		Spacer, Stabilizer (4)
		Screw, #10-24 x 3/4"
		FHM-PH (4)
		Screw, #10-24 x 1" FHM-PH (4)
8	81-9500-1416-FIN	Mounting Bracket Packet
		contains:
		Mullion Mounting Plate (2)
		Screw, 1/4-20 x 1/2
		FHUM-PH (6)
		Anchor, 1/4-20 Masonry (3)
9	81-9500-1414-FIN	Carriage Bolt Packet
		contains:
		Bolt, 1/4-20 x 1-3/4" Carriage
Not Shown	81-9500-1523-FIN	Parts Packet contains: Items 7, 8 and 9



M200(F)



KRM200(F)



M300

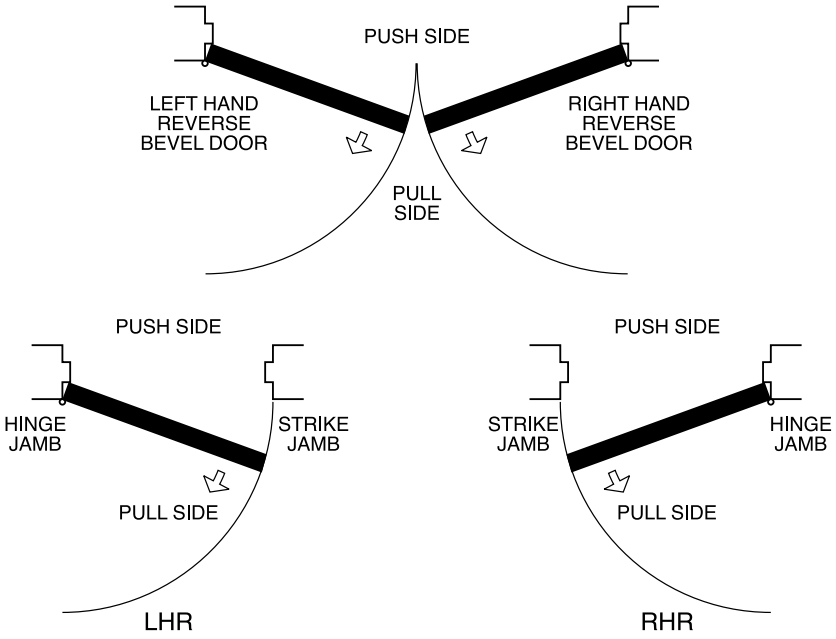
handing instructions

Handing

Left Hand Reverse: Hinges on left, opens outward. For handed devices, specify LHR.

Right Hand Reverse: Hinges on right, opens outward. For handed devices, specify RHR.

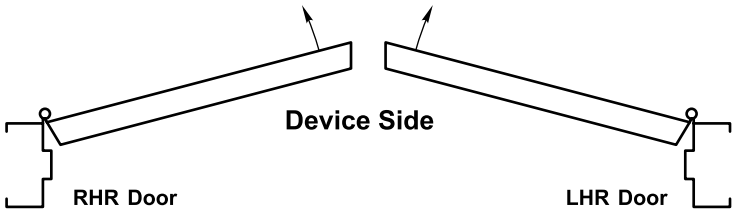
Note: Doors with Panic-Exit and Fire Exit hardware must open out. Therefore, hands must be reverse bevel.



Rim Devices

7100(F), 7150(F), 7200(F) Series

These devices are non-handed.

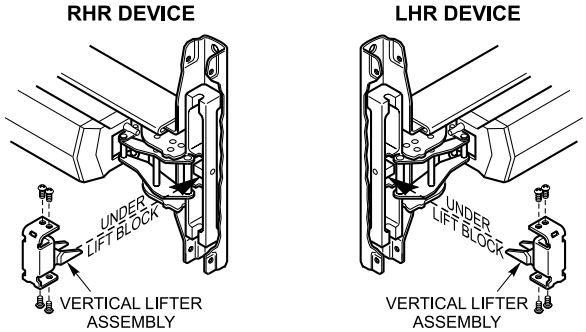


Vertical Rod Devices, Surface and Concealed

7110(F), 7120(F), 7160(F), 7170(F), 7210(F), 7220 Series

Remove four screws and vertical lifter assembly. Turn device to opposite (180 degrees) orientation, insert lifter assembly and reinstall screws.

NOTE: Lifter must fit under lift block as shown.



handing instructions

Effective April 16, 2010, the following Free-Wheeling exit device lever trims will ship with a new universal lever spring and hub:

626F, 627F, 628F, 629F, 690F, 691F

The new universal spring allows the handing for the trim to easily be changed without the need for any additional parts. This means no more red or blue springs!

To accommodate the new universal spring, a slight modification to the door prep has been incorporated. In anticipation of this change, revised door templates for these functions were posted to our website in August 2009.

The required trim handing should be specified on the purchase order and will be set at the factory.

The following details changing the handing in the field:

Tools Needed: Needle Nose pliers, Crescent wrench

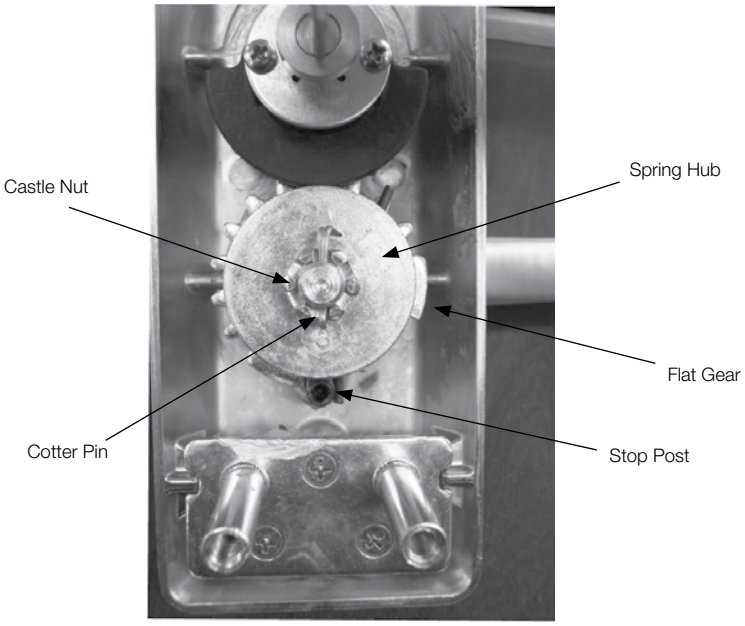
Notes:

During change ensure black gear does not rotate.

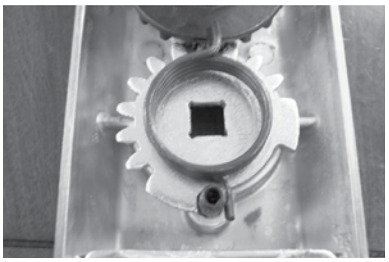
Please wear safety glasses and be aware of spring tension on spring hub upon removal and assembly.

Light lubrication is recommended under flat gear, white lithium grease can be used.

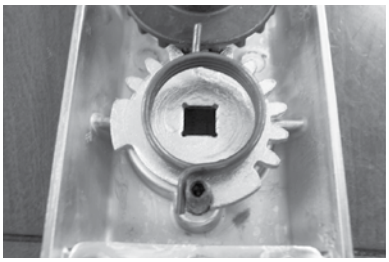
- Remove cotter pin
- Remove castle nut
- Remove washer
- Carefully pull up on spring hub to disengage spring
- Remove spring and note orientation
- Remove lever handle
- Pick-up flat gear, flip and orient stop on opposite side of stop post. See pictures for hand orientation.
- Install spring upside down from original orientation and place spring leg on opposite side of stop post from original installation orientation
- Install lever 180 degrees from original position
- Install spring hub with stamped number in the 6 o'clock position
- Rotate spring leg around with needle nose pliers to engage notch in spring hub, refer to pictures for reference position. Press down on spring hub to ensure complete engagement.
- Install washer
- Install castle nut, do not over tighten, verify by insuring lever returns horizontally on its own
- Install cotter pin



Left Hand Reverse Shown

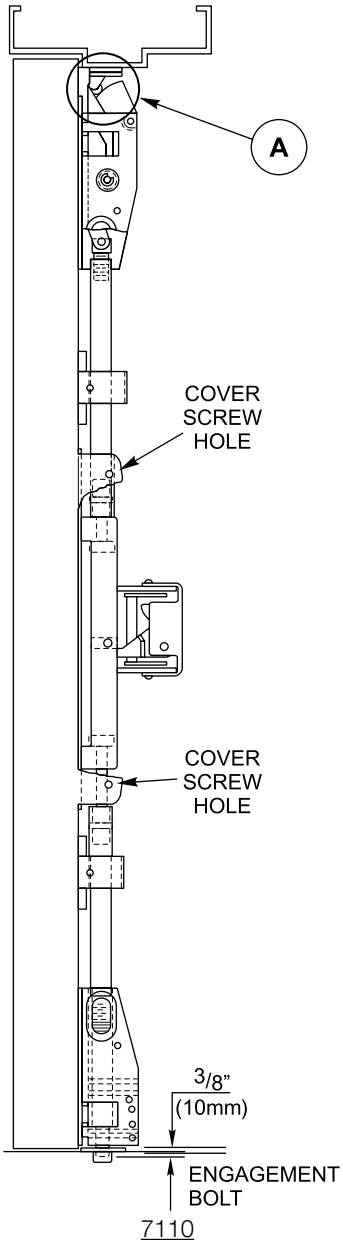


Left Hand Reverse gear & spring orientation



Right Hand Reverse gear & spring orientation

surface vertical rod exit devices



If top latch does not engage properly, check alignment. When locked, latch bolt should not be preloaded by strike (**Area A**). Shim or reposition strike if necessary.

Bolts extend automatically when door closes and top strike hits tripping lever. Top bolt should retract flat. Bottom bolt should travel 1/2" and engage 3/8" into strike in down position, without dragging on floor surface in up position.

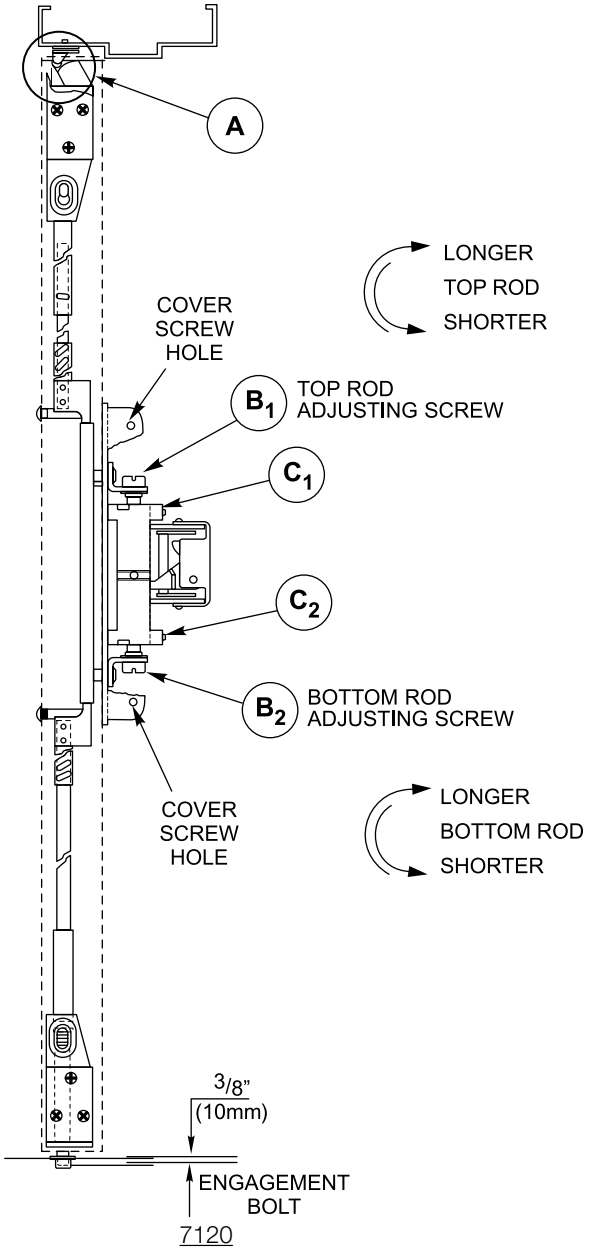
Rod Adjustment

1. Remove active case cover screws and cover.
2. Remove rod guide cover screws and rod guide covers. Tilt rods, top and bottom, out of engagement in active case and out of rod guides.
3. **Adjust top rod first.** Push up on top rod to fully retract top latch with hold back feature engaged. With device in dogged position (panic devices) or touch-bar fully depressed (fire devices), adjust top rod so that the square head of the rod connector slides into engagement in the active case. Shorten rod an additional 1/2 turn.
4. **Adjust bottom rod.** With top rod engaged, top latch retracted in hold back position, and touch bar dogged or fully depressed, adjust bottom rod so that the deadbolt clears the strike by 1/16". The bottom rod should be in position in the active case with the square head of the connector hanging in the slide.
5. **Check device operation** by opening and closing the door. When present, operate the device with the outside trim. An additional minor adjustment may be required for full retraction and correct strike engagement.
6. Reinstall the rod guide covers and the active case cover.

Maintenance

1 . Periodically remove covers and coat mechanisms with an appropriate lubricant. This is regularly required in corrosive environments for proper product operation.
2. Check mounting fasteners periodically. Retighten if found loose. Apply screw locking compound or change part fasteners if screws continue to back out.
3. Periodic checks and adjustments of rods may be required to compensate for door or frame sag.

concealed vertical rod exit devices



Rods should move freely inside door. Bolts extend automatically when door closes and top strike is tripped. Top bolt should retract flat. Bottom bolt should travel 1/2" and engage 3/8" into strike in down position, without dragging on floor surface in up position.

If top latch does not engage properly check alignment. When locked, latch bolt should not be preloaded by strike (**Area A**). Shim or reposition strike if necessary.

Rod Adjustment for Bolt Throw

1. Remove Latch assembly cover screws and cover.
2. Use 3/32" Allen wrench to loosen set screws **C_1** and **C_2**.
3. Adjusting screws **B_1** and **B_2** only provide fine rod adjustment. If screws bottom out before proper device operation, door and device must be removed. Larger adjustments may then be made either by threading rod in or out, or by moving cotter pin to different hole in rod.
4. **Adjust top rod first.** With device in dogged position (panic devices) or touchbar fully depressed (fire devices), adjust top rod so that the top latchbolt is flush and the hold back feature is engaged. Lengthen top rod an additional 1/2 turn.
5. **Adjust bottom rod.** With top latch retracted in hold back position, and touch bar dogged or fully depressed, adjust bottom rod so that the deadbolt clears the strike by 1/16". The bottom rod should be in position in the active case with the square head of the connector hanging in the slide.
6. **Check device operation** by opening and closing the door. When present, operate the device with the outside trim. An additional minor adjustment may be required for full retraction and correct strike engagement.
7. When finished, lock adjusting screws in place with Allen set screws.

   Caution: To avoid thread damage and provide positive locking, be sure Allen set screws engage flats on adjusting screws.

Maintenance

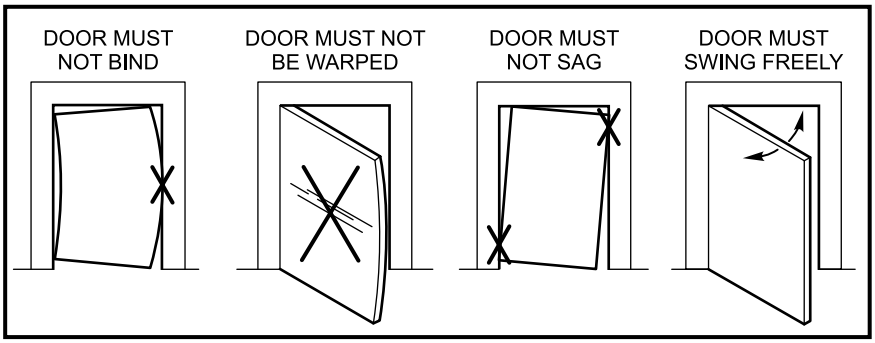
1. Periodically remove covers and coat exposed mechanisms with an appropriate lubricant. This is regularly required in corrosive environments for proper product operation.
2. Check mounting fasteners periodically. Retighten if found loose. Apply screw locking compound or change part fasteners if screws continue to back out.
3. Periodic checks and adjustments of rods may be required to compensate for door or frame sag.

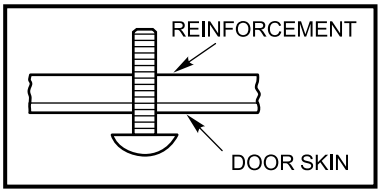
troubleshooting guide

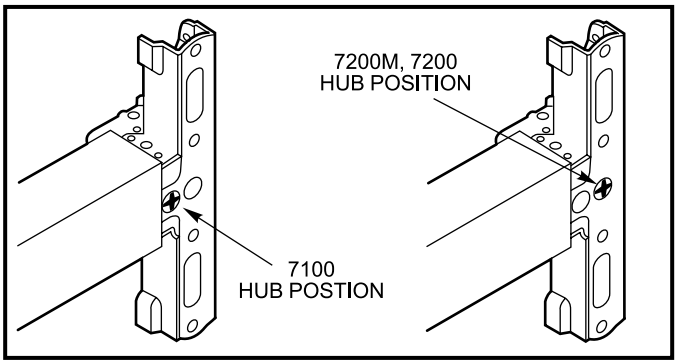
1. Many problems with the operation of exit devices are caused by factors other than the device itself. Among the most common is a misalignment or an improper fit of the door within the frame.

2. Another common source of problems is improper installation. Even if all cutouts and screw holes are properly located, exit devices must be securely fastened to properly reinforced doors. Hollow doors and frames with a structural thickness (metal skin plus reinforcement, or solid hardwood) must have at least three full screw threads to be considered reinforced.

3. Most problems with dogging occur on vertical rod devices. When the dogging function is hard to engage or will not work at all, the rods may be incorrectly adjusted allowing the mechanism to bottom out. Readjust rods per the device instructions or as outlined on the previous pages.







DIFFERENCE IN ACTIVE HEADS

notes

online literature and templates

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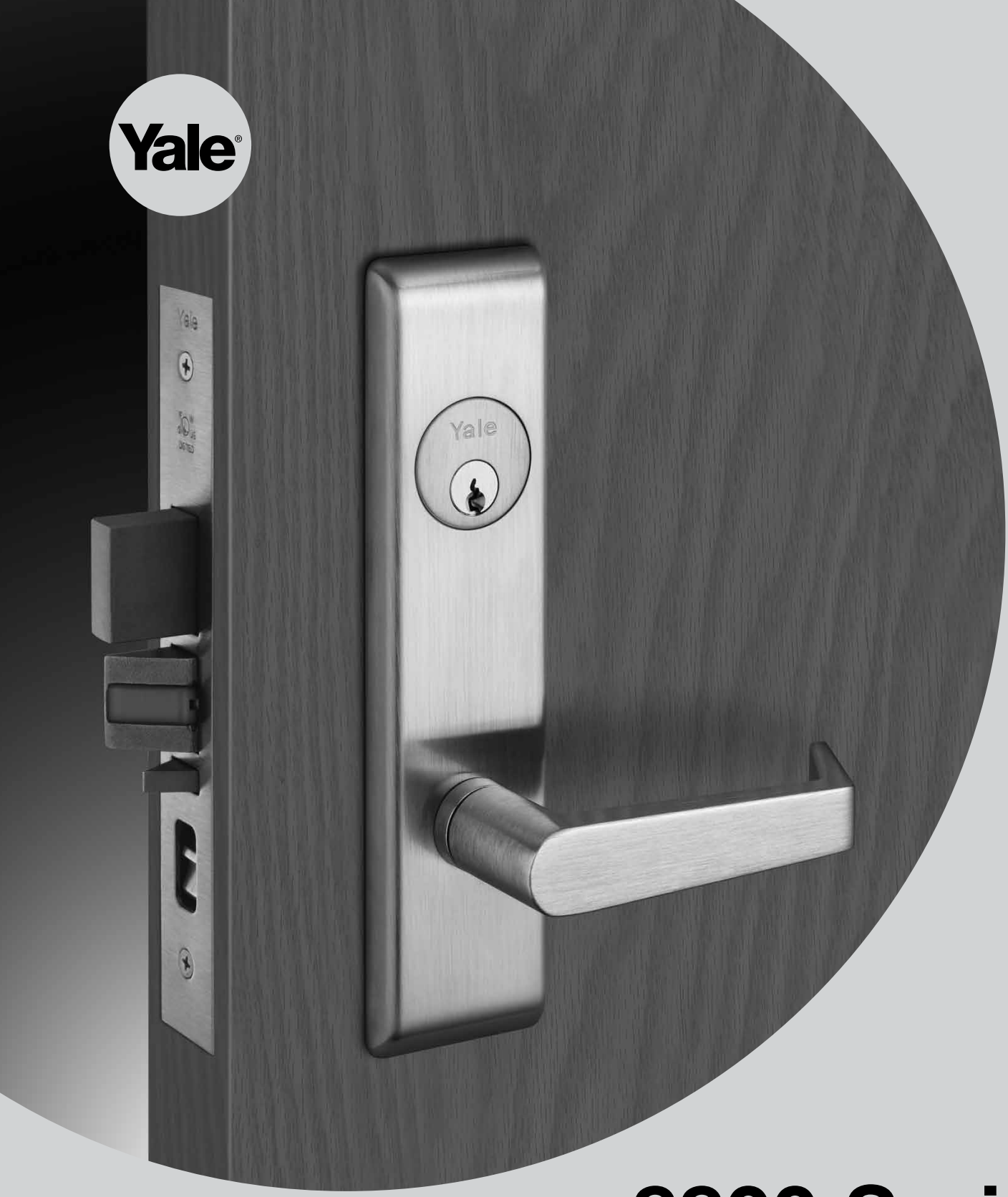
ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.

42210-12/11RE



8800 Series Parts Manual

Grade 1 Mortise Locks

An ASSA ABLOY Group brand

ASSA ABLOY

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Trouble Shooting 28

how to order parts

To order parts, use the appropriate part number and specify finish if necessary.

For example, to order 10 curved lip strikes for any function:

Quantity	Part Number	Description
10	50-8800-2023-FIN	Strike, Curved Lip

To order 5 lockbody assemblies for a Passage or Closet Latch function (8801FL):

Quantity	Model Number	Description
5	LBDY8801FL	Lockbody Assembly , Including Armor Front and Strike

For assistance, contact your authorized Yale distributor, sales agency or visit our website at www.yalelocks.com.

finish chart

ANSI/BHMA Code	Finish Description
605	Bright Brass, Clear Coated
606	Satin Brass, Clear Coated
609	Satin Brass, Blackened, Satin Relieved, Clear Coated
611	Bright Bronze, Clear Coated
612	Satin Bronze, Clear Coated
613	Dark Oxidized Satin Bronze, Oil Rubbed
613E	Dark Oxidized Satin Bronze - equivalent
616	Satin Bronze, Blackened, Satin Relieved, Clear Coated
618	Bright Nickel Plated, Clear Coated

ANSI/BHMA Code	Finish Description
619	Satin Nickel Plated, Clear Coated
620	Satin Nickel Plated, Blackened, Satin Relieved, Clear Coated
625	Bright Chrome Plated
626	Satin Chrome Plated
629	Bright Stainless Steel
630	Satin Stainless Steel
693	Black Painted
722	Black Ozidized Bronze, Oil Rubbed

For "X" in part number, specify finish required:
- For 605, 606, 609, 611, 612, 613, 613E, 616, 618, 619, 620, 625, 626, 693 or 722 substitute "X" with "2"
- For 629 or 630 substitute "X" with "7"

Example = 50-8847-7219 would be an armor front used for an 8847 mortise lock in 630 finish.

FINISH CARE

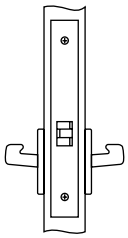
8800 Series Mortise Locks are designed to provide the highest standard of product quality and performance. Care should be taken to ensure a long-lasting finish. When cleaning is required, use a soft damp cloth. Using lacquer thinners, caustic soaps, abrasive cleaners or polishes could damage the coating and result in tarnishing.

MAINTENANCE

Yale® 8800 Series Mortise Locks are manufactured to be maintenance-free under normal operating conditions and environments. Subjection to extremely heavy traffic and/or particularly dusty and dirty environmental conditions, however, may eventually cause unsatisfactory operation due to slow-moving parts or sticking cylinders. In this case, it may be necessary to clean and re-lubricate the lockset to maintain optimum performance. To clean the lockset mechanism, use a penetrating or solvent type lubricant to loosen sticking components, then lubricate with lithium grease.To free sticking or jammed cylinders, lubricate with graphite or a non-oily lubricant (such as Lock-EZE). Do not use petroleum-based lubricants in the cylinder keyway.

lockbody assemblies

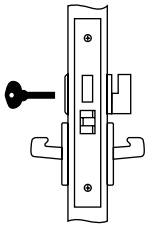
8801



Passage or Closet Latch
F01

Model Number:*	Used with:
LBDY8801	Knobs
LBDY8801FL	Standard Levers
LBDYSL8801	SL Levers
LBDY8801RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8801FL	Reflections® Levers (shipped after Oct. 2011)

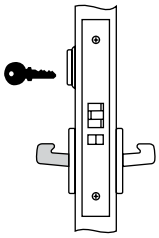
8802



Privacy, Bedroom
or Bath Lock
F19

Model Number:*	Used with:
LBDY8802	Knobs
LBDY8802FL	Standard Levers
LBDYSL8802	SL Levers
LBDY8802RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8802FL	Reflections® Levers (shipped after Oct. 2011)

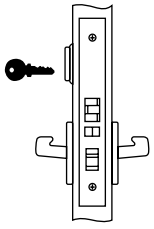
8805



Storeroom or
Closet Lock
F07

Model Number:*	Used with:
LBDY8805	Knobs
LBDY8805FL	Standard Levers
LBDYSL8805	SL Levers
LBDY8805RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8805FL	Reflections® Levers (shipped after Oct. 2011)

8807



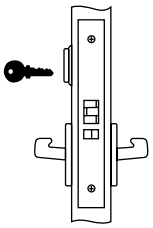
Entry Lock
F04

Model Number:*	Used with:
LBDY8807	Knobs
LBDY8807FL	Standard Levers
LBDYSL8807	SL Levers
LBDY8807RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8807FL	Reflections® Levers (shipped after Oct. 2011)

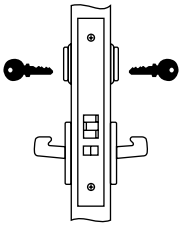
*** Specify finish. Includes armor front and strike pack.**

lockbody assemblies

8808/8808-2



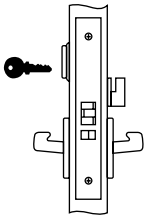
Classroom Lock
F05



Intruder Latchbolt Lock
F32

Model Number:*	Used with:
LBDY8808	Knobs
LBDY8808FL	Standard Levers
LBDYSL8808	SL Levers
LBDY8808RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8808FL	Reflections® Levers (shipped after Oct. 2011)

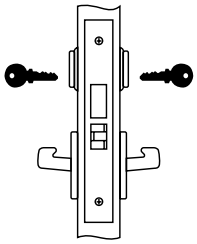
8809



Classroom or
Office Lock

Model Number:*	Used with:
LBDY8809	Knobs
LBDY8809FL	Standard Levers
LBDYSL8809	SL Levers
LBDY8809RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8809FL	Reflections® Levers (shipped after Oct. 2011)

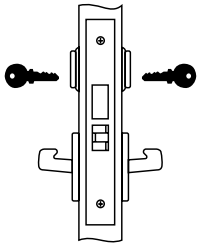
8811-2



Intruder Deadbolt Lock
F33

Model Number:*	Used with:
LBDY8811	Knobs
LBDY8811FL	Standard Levers
LBDYSL8811	SL Levers
LBDY8811RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8811FL	Reflections® Levers (shipped after Oct. 2011)

8812-2



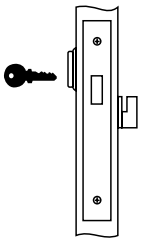
Intruder Deadbolt Lock
F34

Model Number:*	Used with:
LBDY8812	Knobs
LBDY8812FL	Standard Levers
LBDYSL8812	SL Levers
LBDY8812RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8812FL	Reflections® Levers (shipped after Oct. 2011)

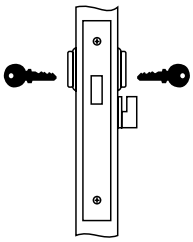
*** Specify finish. Includes armor front and strike pack.**

lockbody assemblies

8813ST/8813ST-2



Classroom Deadlock
F29

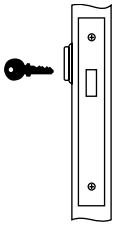


Classroom Deadlock

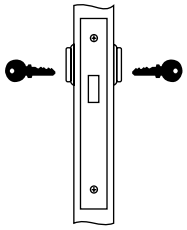
Model Number:*

LBDY8813

8814/8814-2



Deadlock
F18

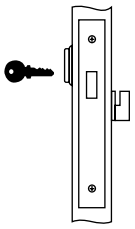


Deadlock
F16

Model Number:*

LBDY8814

8815

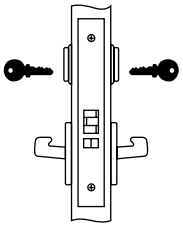


Deadlock
F17

Model Number:*

LBDY8815

8817-2



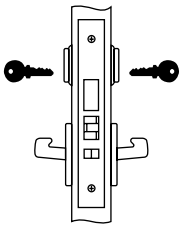
Apartment, Exit or
Public Toilet Lock
F09

Model Number:*	Used with:
LBDY8817	Knobs
LBDY8817FL	Standard Levers
LBDYSL8817	SL Levers
LBDY8817RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8817FL	Reflections® Levers (shipped after Oct. 2011)

*** Specify finish. Includes armor front and strike pack.**

lockbody assemblies

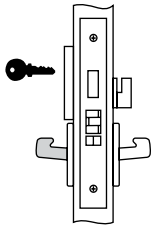
8818-2



Classroom Security
Intruder Lock

Model Number:*	Used with:
LBDY8818	Knobs
LBDY8818FL	Standard Levers
LBDYSL8818	SL Levers
LBDY8818RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8818FL	Reflections® Levers (shipped after Oct. 2011)

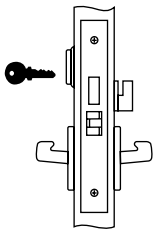
8820



Hotel Guest Lock
F15

Model Number:*	Used with:
LBDY8820	Knob
LBDY8820FL	Standard Lever
LBDYSL8820	SL Lever
LBDY8820RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8820FL	Reflections® Levers (shipped after Oct. 2011)

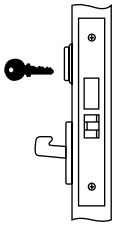
8822



Dormitory or Exit Lock
F13

Model Number:*	Used with:
LBDY8822	Knobs
LBDY8822FL	Standard Levers
LBDYSL8822	SL Levers
LBDY8822RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8822FL	Reflections® Levers (shipped after Oct. 2011)

8823



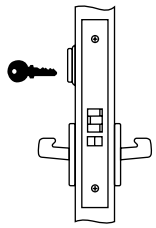
Storeroom Lock

Model Number:*	Used with:
LBDY8823	Knob
LBDY8823FL	Standard Lever
LBDYSL8823	SL Lever
LBDY8823RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8823FL	Reflections® Levers (shipped after Oct. 2011)

*** Specify finish. Includes armor front and strike pack.**

lockbody assemblies

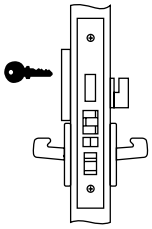
8824



Holdback Lock
F06

Model Number:*	Used with:
LBDY8824	Knob
LBDY8824FL	Standard Lever
LBDYSL8824	SL Lever
LBDY8824RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8824FL	Reflections® Levers (shipped after Oct. 2011)

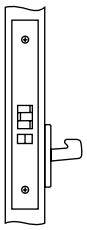
8827



Hotel/Motel Lock

Model Number:*	Used with:
LBDY8827	Knobs
LBDY8827FL	Standard Levers
LBDYSL8827	SL Levers
LBDY8827RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8827FL	Reflections® Levers (shipped after Oct. 2011)

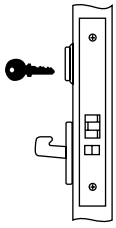
8828



Exit or Communicating Lock
F31

Model Number:*	Used with:
LBDY8828	Knob
LBDY8828FL	Standard Lever
LBDYSL8828	SL Lever
LBDY8828RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8828FL	Reflections® Levers (shipped after Oct. 2011)

8829



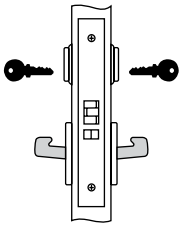
Closet Lock

Model Number:*	Used with:
LBDY8829	Knobs
LBDY8829FL	Standard Levers
LBDYSL8829	SL Levers
LBDY8829RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8829FL	Reflections® Levers (shipped after Oct. 2011)

*** Specify finish. Includes armor front and strike pack.**

lockbody assemblies

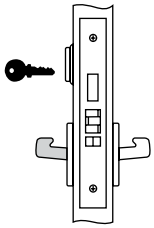
8830-2



Asylum or Institutional Lock
F30

Model Number:*	Used with:
LBDY8830	Knobs
LBDY8830FL	Standard Levers
LBDYSL8830	SL Levers
LBDY8830RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8830FL	Reflections® Levers (shipped after Oct. 2011)

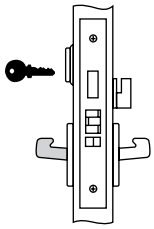
8831



Detention Lock

Model Number:*	Used with:
LBDY8831	Knobs
LBDY8831FL	Standard Levers
LBDYSL8831	SL Levers
LBDY8831RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8831FL	Reflections® Levers (shipped after Oct. 2011)

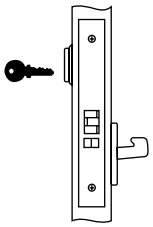
8832



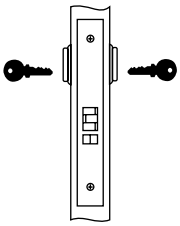
Hotel/Motel Lock

Model Number:*	Used with:
LBDY8832	Knob
LBDY8832FL	Standard Lever
LBDYSL8832	SL Lever
LBDY8832RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8832FL	Reflections® Levers (shipped after Oct. 2011)

8833/8833-2



Exit Lock



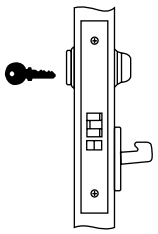
All Purpose Lock

Model Number:*	Used with:
LBDY8833	Knobs
LBDY8833FL	Standard Levers
LBDYSL8833	SL Levers
LBDY8833RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8833FL	Reflections® Levers (shipped after Oct. 2011)

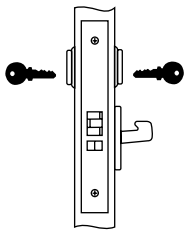
*** Specify finish. Includes armor front and strike pack.**

lockbody assemblies

8834/8834-2



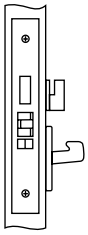
All Purpose Lock



All Purpose Lock

Model Number:*	Used with:
LBDY8834	Knobs
LBDY8834FL	Standard Levers
LBDYSL8834	SL Levers
LBDY8834RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8834FL	Reflections® Levers (shipped after Oct. 2011)

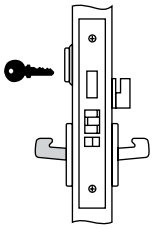
8835



Exit Lock

Model Number:*	Used with:
LBDY8835	Knob
LBDY8835FL	Standard Lever
LBDYSL8835	SL Lever
LBDY8835RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8835FL	Reflections® Levers (shipped after Oct. 2011)

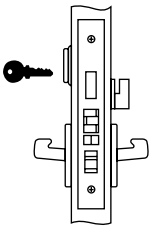
8840



Storeroom Deadbolt

Model Number:*	Used with:
LBDY8840	Knob
LBDY8840FL	Standard Lever
LBDYSL8840	SL Lever
LBDY8840RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8840FL	Reflections® Levers (shipped after Oct. 2011)

8847



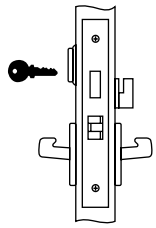
Apartment Corridor Door Lock
F20

Model Number:*	Used with:
LBDY8847	Knobs
LBDY8847FL	Standard Levers
LBDYSL8847	SL Levers
LBDY8847RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8847FL	Reflections® Levers (shipped after Oct. 2011)

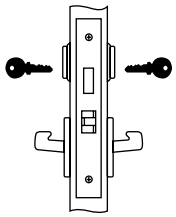
*** Specify finish. Includes armor front and strike pack.**

lockbody assemblies

8860/8860-2



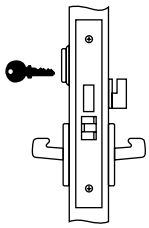
Room Door Lock
F21



Store Door Lock
F14

Model Number:*	Used with:
LBDY8860	Knobs
LBDY8860FL	Standard Levers
LBDYSL8860	SL Levers
LBDY8860RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8860FL	Reflections® Levers (shipped after Oct. 2011)

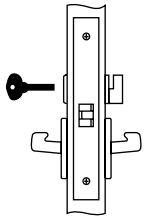
8861



Dormitory or
Storeroom Lock

Model Number:*	Used with:
LBDY8861	Knobs
LBDY8861FL	Standard Levers
LBDYSL8861	SL Levers
LBDY8861RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8861FL	Reflections® Levers (shipped after Oct. 2011)

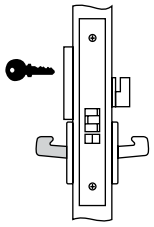
8862



Privacy, Bedroom or
Bath Lock
F22

Model Number:*	Used with:
LBDY8862	Knob
LBDY8862FL	Standard Lever
LBDYSL8862	SL Lever
LBDY8862RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8862FL	Reflections® Levers (shipped after Oct. 2011)

8864



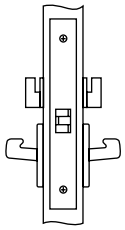
Bathroom Lock
with Indicator

Model Number:*	Used with:
LBDY8864	Knobs
LBDY8864FL	Standard Levers
LBDYSL8864	SL Levers
LBDY8864RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8864FL	Reflections® Levers (shipped after Oct. 2011)

*** Specify finish. Includes armor front and strike pack.**

lockbody assemblies

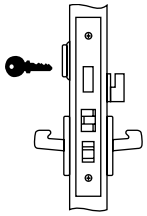
8865



Bathroom Lock

Model Number:*	Used with:
LBDY8865	Knob
LBDY8865FL	Standard Lever
LBDYSL8865	SL Lever
LBDY8865RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8865FL	Reflections® Levers (shipped after Oct. 2011)

8867



Dormitory or Exit Lock
F12

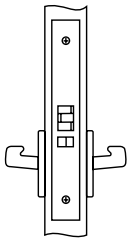
Model Number:*	Used with:
LBDY8867	Knobs
LBDY8867FL	Standard Levers
LBDYSL8867	SL Levers
LBDY8867RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8867FL	Reflections® Levers (shipped after Oct. 2011)

*** Specify finish. Includes armor front and strike pack.**

lockbody assemblies - electrified

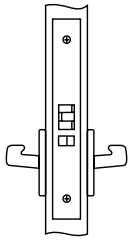
fail safe

8880



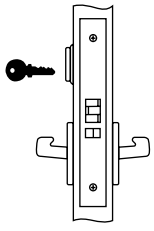
Model Number:*	Used with:
LBDY8880	Knobs
LBDY8880FL	Standard Levers
LBDY8880RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8880FL	Reflections® Levers (shipped after Oct. 2011)

8884



Model Number:*	Used with:
LBDY8884	Knobs
LBDY8884FL	Standard Levers
LBDY8884RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8884FL	Reflections® Levers (shipped after Oct. 2011)

8890



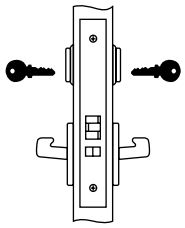
Model Number:*	Used with:
LBDY8890	Knobs
LBDY8890FL	Standard Levers
LBDY8890RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8890FL	Reflections® Levers (shipped after Oct. 2011)

***Specify finish, voltage and options. Includes armor front and strike pack.**

lockbody assemblies - electrified

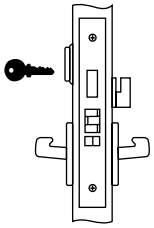
fail safe

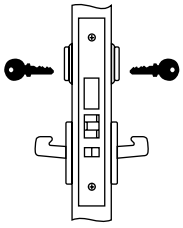
8894-2



Model Number:*	Used with:
LBDY8894	Knobs
LBDY8894FL	Standard Levers
LBDY8894RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8894FL	Reflections® Levers (shipped after Oct. 2011)

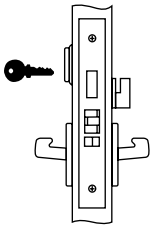
8896/8896-2

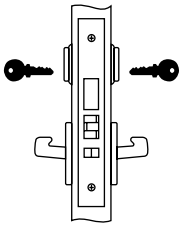




Model Number:*	Used with:
LBDY8896	Knob
LBDY8896FL	Standard Lever
LBDY8896RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8896FL	Reflections® Levers (shipped after Oct. 2011)

8898/8898-2





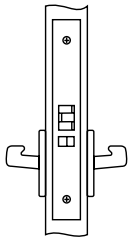
Model Number:*	Used with:
LBDY8898	Knob
LBDY8898FL	Standard Lever
LBDY8898RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8898FL	Reflections® Levers (shipped after Oct. 2011)

***Specify finish, voltage and options. Includes armor front and strike pack.**

lockbody assemblies - electrified

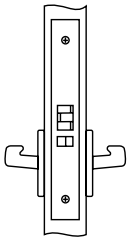
fail secure

8881



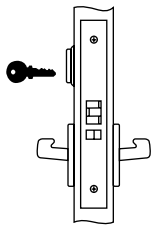
Model Number:*	Used with:
LBDY8881	Knobs
LBDY8881FL	Standard Levers
LBDY8881RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8881FL	Reflections® Levers (shipped after Oct. 2011)

8885



Model Number:*	Used with:
LBDY8885	Knobs
LBDY8885FL	Standard Levers
LBDY8885RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8885FL	Reflections® Levers (shipped after Oct. 2011)

8891



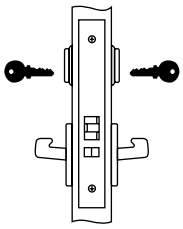
Model Number:*	Used with:
LBDY8891	Knobs
LBDY8891FL	Standard Levers
LBDY8891RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8891FL	Reflections® Levers (shipped after Oct. 2011)

***Specify finish, voltage and options. Includes armor front and strike pack.**

lockbody assemblies - electrified

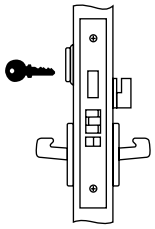
fail secure

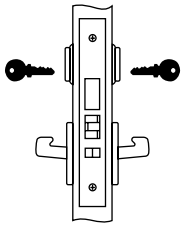
8895-2



Model Number:*	Used with:
LBDY8895	Knobs
LBDY8895FL	Standard Levers
LBDY8895RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8895FL	Reflections® Levers (shipped after Oct. 2011)

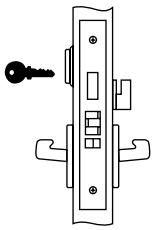
8897/8897-2

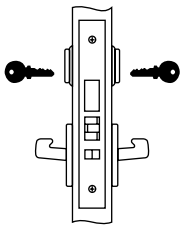




Model Number:*	Used with:
LBDY8897	Knob
LBDY8897FL	Standard Lever
LBDY8897RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8897FL	Reflections® Levers (shipped after Oct. 2011)

8899/8899-2





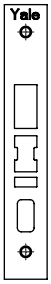
Model Number:*	Used with:
LBDY8899	Knob
LBDY8899FL	Standard Lever
LBDY8899RL	Reflections® Levers (shipped before Oct. 2011)
LBDY8899FL	Reflections® Levers (shipped after Oct. 2011)

***Specify finish, voltage and options. Includes armor front and strike pack.**

armor fronts and strikes

armor fronts

Part Number Shipped Between March 2012 and August 2014	Part Number Shipped After August 2014	Lock Function/Description
50-8801-X119	50-8801-X219	8801, 8862, 8865
50-8802-X119	50-8802-X219	8802, 8811, 8822, 8823, 8861
50-8805-X119	50-8805-X219	8805, 8808, 8809, 8817, 8824, 8828, 8829, 8830, 8833, 8834, 8834-2, 8864, 8880, 8881, 8884, 8885, 8890, 8891, 8894-2, 8895-2
50-8807-X119	50-8807-X219	8807
50-8813-X119	50-8813-X219	8813, 8814, 8815
50-8820-X119	50-8820-X219	8812, 8818, 8820, 8831, 8832, 8835, 8860, 8896, 8896-2, 8897, 8897-2, 8898, 8898-2, 8899, 8899-2
50-8847-X119	50-8847-X219	8827, 8847
50-8867-X119	50-8867-X219	8867
81-00X2-0404	81-00X2-0404	Armor Front Screw



Armor Front Shipped Between March 2012 and August 2014

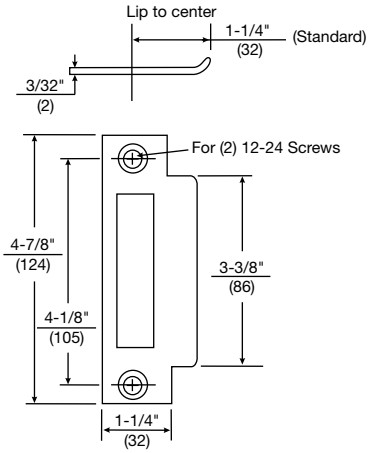
Armor Front Shipped After August 2014

Note: Limited quantities of armor fronts available for mortise locks shipped prior to March 2012. Contact factory for more information.

strikes

Part Number	Description
50-8800-X023-FIN	1-1/4" Curved Lip (standard)
50-8800-X022-FIN	1-1/8" Curved Lip
50-8800-X065-FIN	1-3/8" Curved Lip
50-8800-X024-FIN	1-1/2" Curved Lip
50-8800-X066-FIN	1-5/8" Curved Lip
50-8800-X025-FIN	1-3/4" Curved Lip
50-8800-X067-FIN	1-7/8" Curved Lip
50-8800-X026-FIN	2" Curved Lip
50-8800-X068-FIN	2-1/8" Curved Lip

Part Number	Description
50-8800-X027-FIN	2-1/4" Curved Lip
50-2816-X001-FIN	7/8" Flat Lip
50-2816-X002-FIN	1" Flat Lip
50-2816-X003-FIN	1-1/8" Flat Lip
50-2816-X004-FIN	1-1/4" Flat Lip
50-2816-X005-FIN	1-1/2" Flat Lip
50-2816-X006-FIN	1-3/4" Flat Lip
50-2816-X007-FIN	2" Flat Lip
50-2816-X008-FIN	2-1/4" Flat Lip
50-2816-X009-FIN	2-1/2" Flat Lip



For "X" in part number, specify finish required:
- For 605, 606, 609, 611, 612, 613, 616, 618, 619, 620, 625, 626, 693 or 722 substitute "X" with "2"
- For 629 or 630 substitute "X" with "7"

Example = 50-8847-7219 would be used for an 8847 mortise lock in 630 finish.

armor front & strike packs

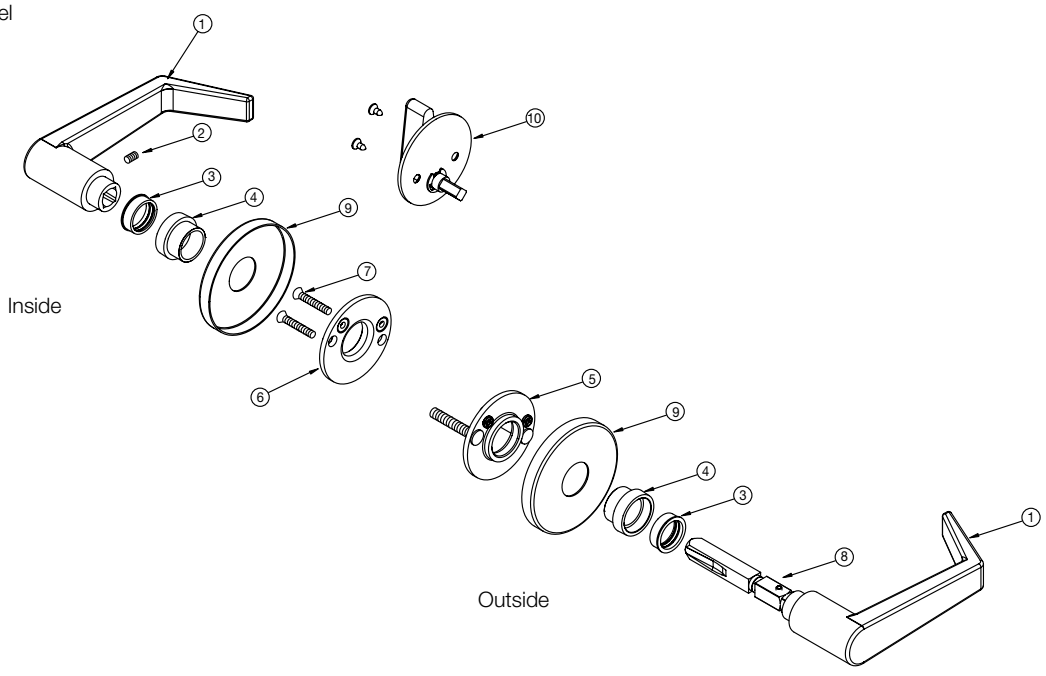
Part Number Used with Product Shpped Between March 2012 and August 2014	Part Number Used with Product Shpped After August 2014	Lock Function
50-0010-8801-FIN	50-0020-8801-FIN	8801, 8862, 8865
50-0010-8802-FIN	50-0020-8802-FIN	8802, 8811, 8822, 8823, 8860, 8861
50-0010-8805-FIN	50-0020-8805-FIN	8805, 8808, 8809, 8817, 8824, 8828, 8829, 8830, 8833, 8834, 8834-2, 8864, 8880, 8881, 8884, 8885, 8890, 8891, 8894-2, 8895-2
50-0010-8807-FIN	50-0020-8807-FIN	8807
50-0010-8813-FIN	50-0020-8813-FIN	8813, 8814, 8815
50-0010-8820-FIN	50-0020-8820-FIN	8812, 8818, 8820, 8831, 8832, 8835, 8860, 8896, 8896-2, 8897, 8897-2, 8898, 8898-2, 8899, 8899-2
50-0010-8847-FIN	50-0020-8847-FIN	8827, 8847
50-0010-8867-FIN	50-0020-8867-FIN	8867

trim: standard lever/knob and Reflections® lever with rose

For standard lever/knobs shipped after February 2012.
For Reflections® levers shipped after October 2011.

Item	Part Number	Description	Quantity
1	See Page 26	Levers/Knobs	2
2	81-6619-2896-999	Set Screw	1
3	10-0086-9038-999	Nylon Bushing	1
4	10-0502-2004-FIN	Rose Thimble Adapter for Standard Trim	2
5	50-0506-0902-048	Outside Mounting Plate Assembly	1
6	50-0505-0902-048	Inside Mounting Plate Assembly	1
7	81-0611-0420-999	Mounting Screw (1-3/4" door) Std.	2
7	81-0013-0424-048	Mounting Screw (2" - 2-1/4" door)	2
7	81-0013-0428-999	Mounting Screw (2-1/4" - 2-3/4" door)	2
8	50-1178-0001-048	Spindle Assembly (1-3/4" door) Std.	1
8	50-1178-0002-048	Spindle Assembly (2" - 2-1/4" door)	1
8	50-1178-0003-048	Spindle Assembly (2-1/4" - 3-1/4" door)	1
9	10-0501-2002-FIN	CO Rose Scalp (Outside and Inside)	2
10	50-1824-0014-FIN	Thumbturn and Plate Assembly (1-3/4" to 2-1/4" door)	1
10	50-1824-0021-FIN	Thumbturn and Plate Assembly (2-1/4" to 3-1/4" door)	1
Not Shown	50-8403-x001-FIN*	R3 Rose Scalp (Outside or Inside)	2
Not Shown	50-8404-x001-FIN*	R4 Rose Scalp (Outside or Inside)	2
Not Shown	50-8405-x001-FIN*	R5 Rose Scalp (Outside or Inside)	2
Not Shown	50-8406-x001-FIN*	R6 Rose Scalp (Outside or Inside)	2
Not Shown	50-8407-x001-FIN*	R7 Rose Scalp (Outside or Inside)	2
Not Shown	50-8408-x001-FIN*	R8 Rose Scalp (Outside or Inside)	2
Not Shown	99-9999-3979-023	Spindle Pin	1
Not Shown	50-1198-0007-048	Hook Spindle for Single Sided Trim	1
Not Shown	50-1824-0030-FIN	Designer Thumbturn Assembly (1-3/4" door)	1
Not Shown	50-1824-1125-048	Designer Thumbturn Mounting Plate	1
Not Shown	81-9400-0041-033	Designer Thumbturn Screw Pack	1
Not Shown	50-4602-0037-FIN	Designer Coin Turn	1

* = X in 3rd set of numbers is the base material designation
2 = Brass
7 = Steel



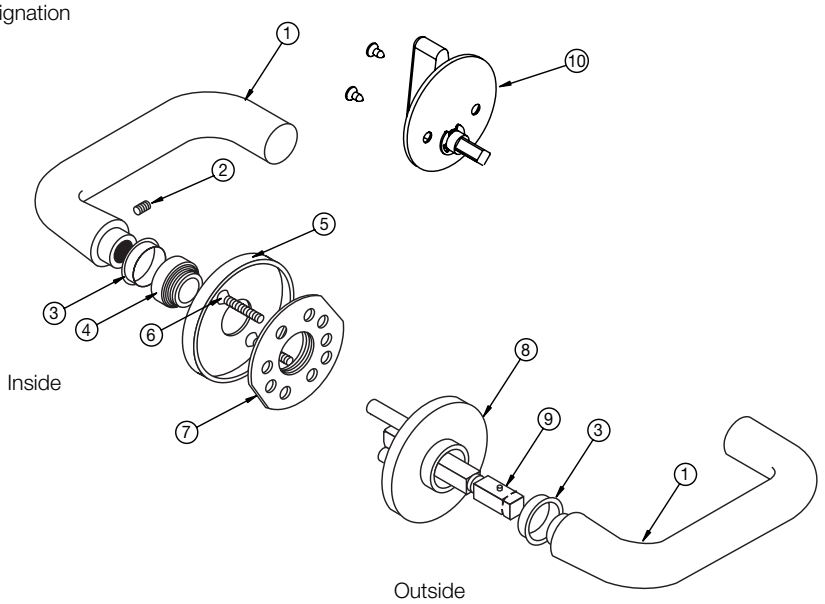
trim: standard lever and knob with rose

For products shipped prior to February 2012.

Item	Part Number	Description	Quantity
1	See Page 26	Levers/Knobs	2
2	81-6619-2896-999	Set Screw	1
3	10-0086-9038-999	Nylon Bushing	2
4	10-0501-x003-FIN*	Inside Rose Adaptor	1
5	10-0501-x001-FIN*	Inside Rose Scalp	1
6	81-0611-0420-048	Mounting Screw (1-3/4" door) Std.	2
6	81-0013-0424-048	Mounting Screw (2" - 2-1/4" door)	2
6	81-0013-0428-999	Mounting Screw (2-1/4" - 2-3/4" door)	2
7	50-0505-1001-048	Inside Mounting Plate	1
8	50-0506-0010-FIN	Outside Rose Assembly	1
9	50-1178-0001-048	Spindle Assembly (1-3/4" door) Std.	1
9	50-1178-0002-048	Spindle Assembly (2"-2-1/4" door)	1
9	50-1178-0003-048	Spindle Assembly (2-1/4" - 3-1/4" door)	1
10	50-1824-0014-FIN	Thumbturn and Plate Assembly (1-3/4" to 2-1/4" door)	1
10	50-1824-0021-FIN	Thumbturn and Plate Assembly (2-1/4" to 3-1/4" door)	1
Not Shown	99-9999-3979-023	Spindle Pin	1
Not Shown	10-0086-9037-999	R1/R2 Nylon Bushing	2
Not Shown	10-0087-2145-000	R1/R2 Inside Rose Adaptor	1
Not Shown	50-0505-1001-048	R1/R2 Inside Rose Support	1
Not Shown	50-0505-2023-FIN	R1 Designer Rose Scalp	1
Not Shown	50-0505-2024-FIN	R2 Designer Rose Scalp	1
Not Shown	50-8700-0016-048	R1/R2 Outside Rose Support Assembly	1
Not Shown	81-9400-0049-048	R1/R2 Through Bolt Screw Pack	1
Not Shown	50-4602-0037-FIN	Designer Emergency Release	1
Not Shown	50-1824-0030-FIN	Designer Thumbturn Assembly (1-3/4" door)	1
Not Shown	50-1824-1125-048	Designer Thumbturn Mounting Plate	1
Not Shown	81-9400-0041-033	Designer Thumbturn Screw Pack	1

Parts Not Available For Reference Only

* = X in 3rd set of numbers is the base material designation
2 = Brass
7 = Steel

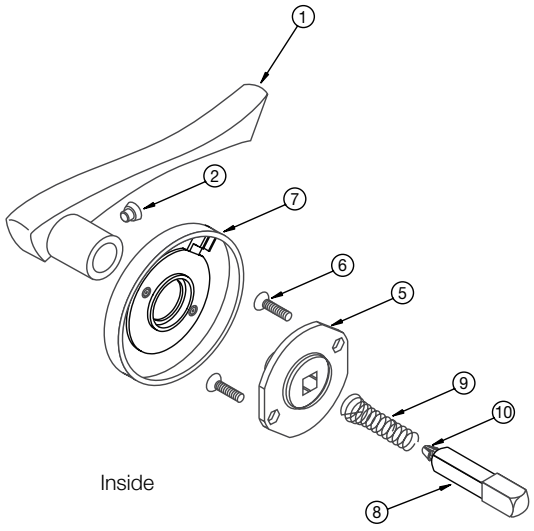


trim: Reflections® lever with rose

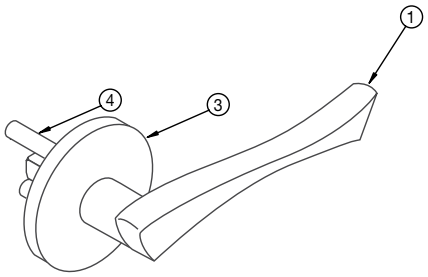
For products shipped prior to October 2011.

Item	Part Number	Description	Quantity
1	See Page 26	Levers	2
2	Not Available	Set Screw	1
3	Not Available	Outside Mounting Plate Assembly	1
4	Not Available	Outside Mounting Post	2
5	Not Available	Inside Mounting Plate Assembly	1
6	Not Available	Mounting Screw (1-3/4" - 2-1/4" door)	2
7	Not Available	R3 Rose Assembly	2
Not Shown	Not Available	R4 Rose Assembly	2
Not Shown	Not Available	R5 Rose Assembly	2
Not Shown	Not Available	R6 Rose Assembly	2
Not Shown	Not Available	R7 Rose Assembly	2
Not Shown	Not Available	R8 Rose Assembly	2
8	Not Available	Spindle	2
9	Not Available	Spindle Spring	2
10	Not Available	Spindle Anchor	2
Not Shown	Not Available	Designer Thumbturn Assembly (1-3/4" door)	1
Not Shown	Not Available	Thumbturn Mounting Plate	1
Not Shown	Not Available	Thumbturn Screw Pack	1

Parts Not Available For Reference Only



Inside

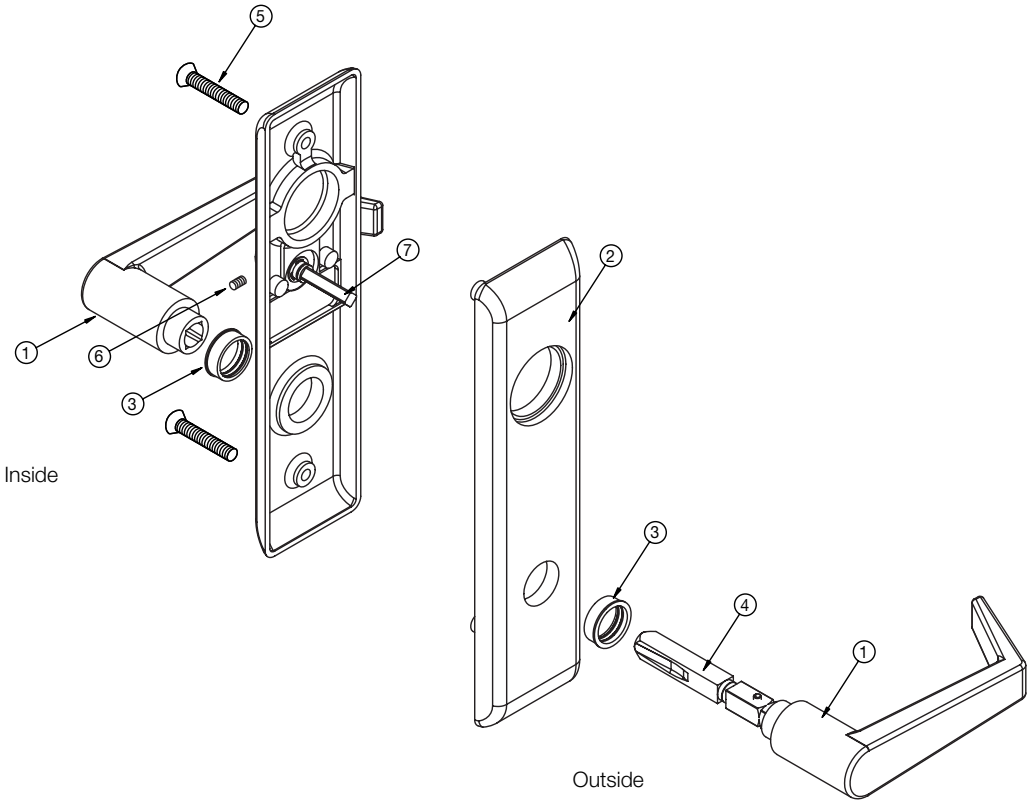


Outside

trim: standard lever/knob and Reflections® lever with escutcheon

For all standard lever/knobs with escutcheon.
For Reflections® levers shipped after October 1, 2011.

Item	Part Number	Description	Quantity
1	See Page 26	Levers/Knobs	2
2	See Page 27	Escutcheon Plates	2
3	10-0086-9038-999	Nylon Bushing	2
4	50-1178-0001-048	Spindle Assembly (1-3/4" door)	1
4	50-1178-0002-048	Spindle Assembly (2"- 2-1/4" door)	1
4	50-1178-0003-048	Spindle Assembly (3"- 3-3/4" door)	1
5	50-4601-7176-FIN	Escutcheon Plate Screw (1-3/4" - 2-1/4" door)	2
5	50-4601-7178-FIN	Escutcheon Plate Screw (2-1/4" - 2-3/4" door)	1
5	50-4601-7180-FIN	Escutcheon Plate Screw (2-3/4" - 3-1/4" door)	1
6	81-6619-2896-999	Set Screw	1
7	50-1824-6009-FIN	Thumbturn - CN (1-3/4" - 2" door)	1
7	50-1824-6008-FIN	Thumbturn - CN (2" - 3-1/4" door)	1
Not Shown	50-1824-6000-FIN	Thumbturn Assembly E3/E4 (1-3/4" door)	1
Not Shown	50-1824-6002-FIN	Thumbturn Assembly - E3/E4 (2" - 2-1/4" door)	1
Not Shown	50-1824-6001-FIN	Thumbturn Assembly - E3/E4 (2-1/2" - 3-1/4" door)	1
Not Shown	99-9999-3979-999	Spindle Pin	1

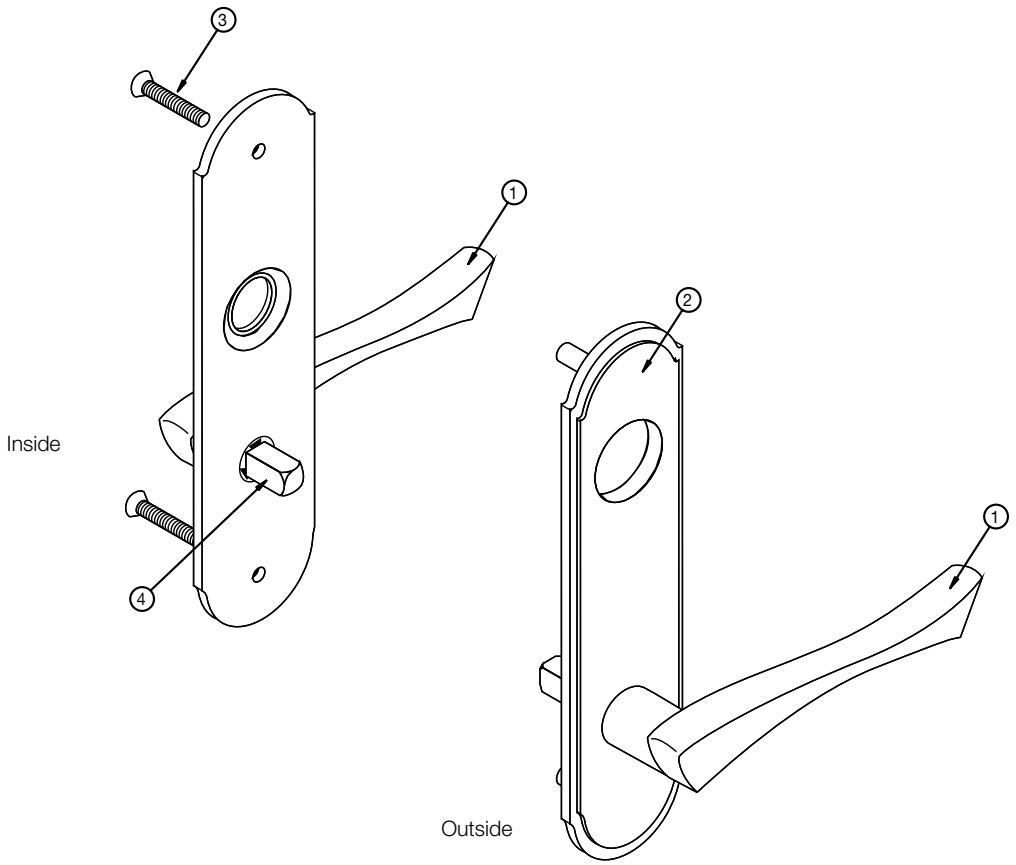


trim: Reflections® lever with escutcheons

For Reflections® levers shipped prior to October 2011.

Item	Part Number	Description	Quantity
1	See Page 26	Levers	2
2	See Page 27	E3/E4 Escutcheon Plates	2
3	Not Available	Escutcheon Plate Screw (1-3/4" - 2-1/4" door)	2
3	Not Available	Escutcheon Plate Screw (2-1/4" door)	2
4	Not Available	Spindle Assembly (1-3/4" - 2-1/4"door)	2
Not Shown	Not Available	Outside Mounting Plate	1
Not Shown	Not Available	Inside Mounting Plate	1
Not Shown	Not Available	Spindle Spring	2
Not Shown	Not Available	Spindle Bushing	1
Not Shown	Not Available	Set Screw	1
Not Shown	Not Available	Thumbturn Assembly - E3/E4 (1-3/4" door)	1
Not Shown	Not Available	Thumbturn Assembly - E3/E4 (2" - 2-1/4" door)	1
Not Shown	Not Available	Thumbturn Assembly - E3/E4 (2-1/2" - 3-1/4" door)	1

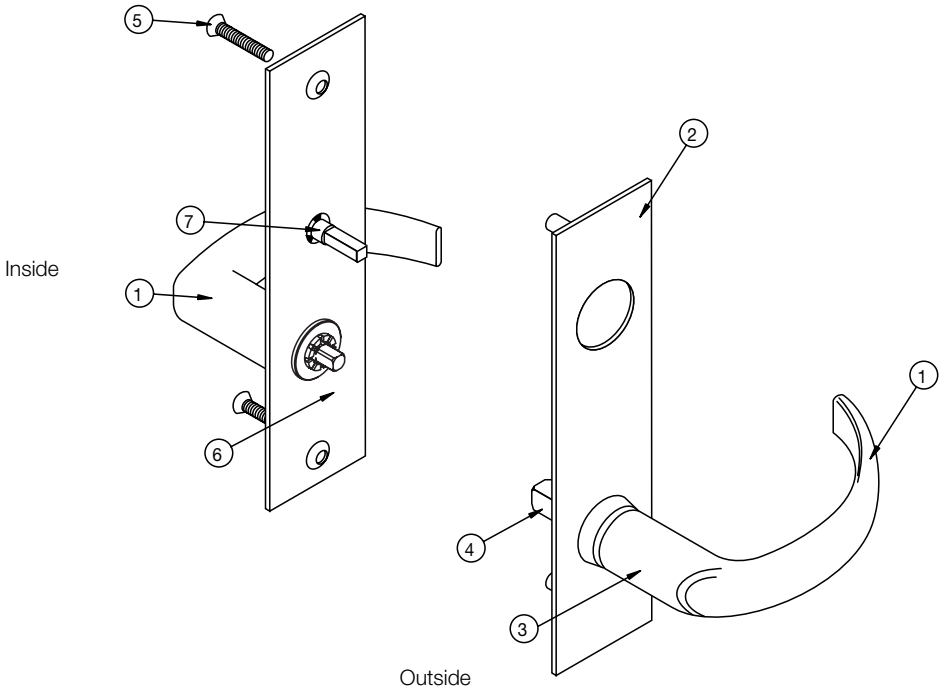
Parts Not Available For Reference Only



trim: lever with SL escutcheon

For all products.

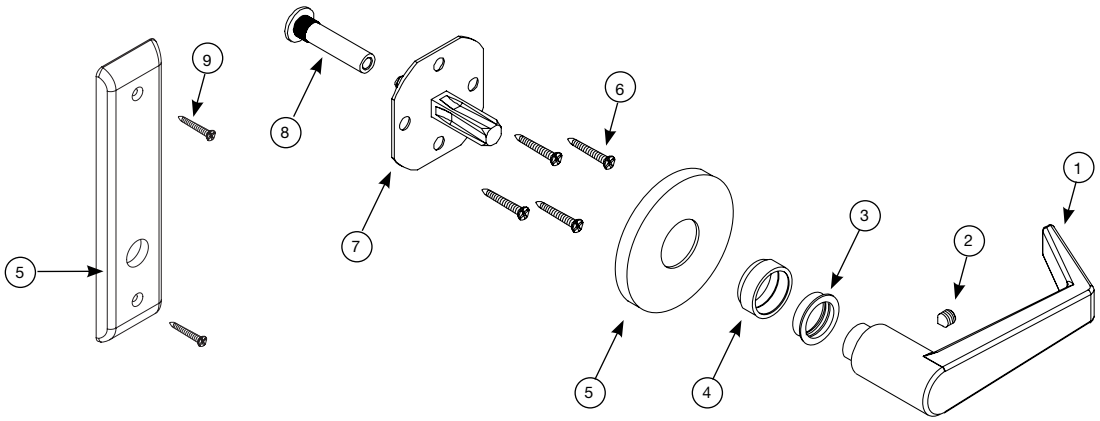
Item	Part Number	Description	Quantity
1	See Page 26	Levers	2
2	See Page 27	SL Escutcheon Plates	2
3	10-0086-9038-999	Nylon Bushing	2
4	50-8700-1015-048	Spindle Assembly (1-3/4" door)	2
4	50-8700-1016-048	Spindle Assembly (1-7/8" - 2" door)	2
4	50-8700-1017-048	Spindle Assembly (2-1/8" - 2-1/4" door)	2
4	50-8700-1060-048	Spindle Assembly (2-1/2" - 2-3/4" door)	2
4	50-8700-1061-048	Spindle Assembly (2-7/8" - 3-1/8" door)	2
4	50-8700-1062-048	Spindle Assembly (3-1/4" door)	2
5	50-4601-7162-999	Escutcheon Plate Screw (1-3/4" door)	2
5	50-4601-7163-999	Escutcheon Plate Screw (2" door)	2
5	50-4601-7164-999	Escutcheon Plate Screw (2-1/4" door)	2
5	50-4601-7166-999	Escutcheon Plate Screw (2-1/2" - 2-3/4" door)	2
5	50-4601-7167-999	Escutcheon Plate Screw (3" door)	2
5	50-4601-7168-999	Escutcheon Plate Screw (3-1/4" door)	2
6	50-8700-1920-048	Security Castle Nut/Washer	2
7	50-1824-6009-FIN	Thumbturn Assembly - SL (1-3/4" - 2" door)	1
7	50-1824-6008-FIN	Thumbturn Assembly - SL (2" - 3-1/4" door)	1
Not Shown	99-9958-0048-999	Cotter Pin	2



trim: lever and knob single-sided dummy trim with standard CO rose or CN escutcheon

For all products.

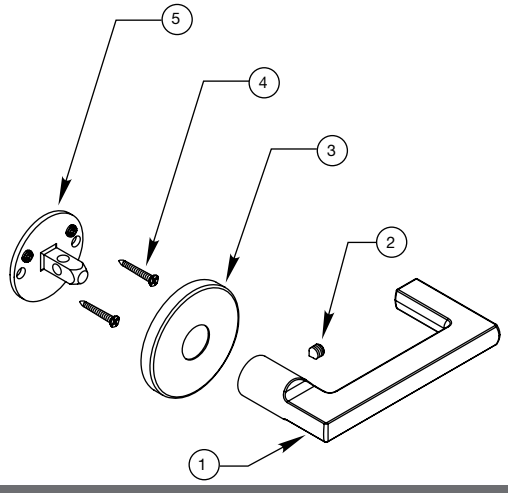
Item	Part Number	Description	Quantity
1	See Page 26	Lever/Knob	1
2	81-6619-2896-999	Set Screw	1
3	10-0086-9038-999	Nylon Bushing	1
4	10-0501-x003-FIN	Rose Adapter (with rose only)	1
5	10-0501-2001-FIN	Rose	1
5	CN87x201	Escutcheon	1
6	81-3112-0526-036	Sheet Metal Screw	4
7	50-1424-0003-048	Dummy Spindle Assembly	1
8	60-7000-2137-FIN	Sex Nut	1
9	81-3173-0520-FIN	Escutcheon Mounting Screw	2



trim: lever single-sided dummy trim with Reflections® roses

For all products.

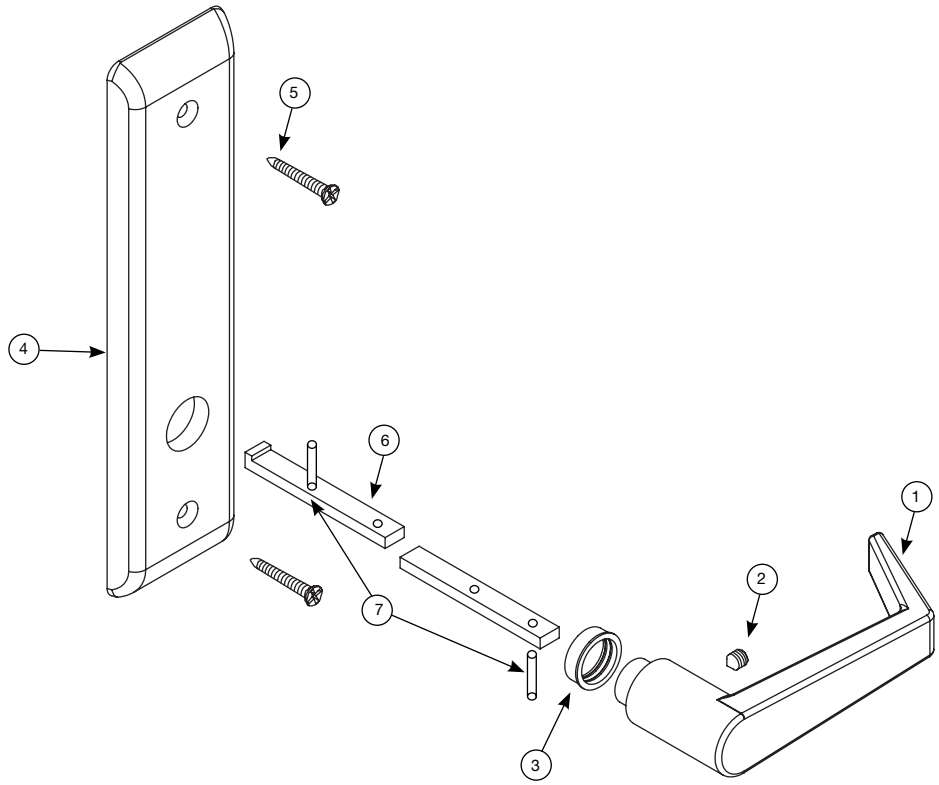
Item	Part Number	Description	Quantity
1	See Page 26	Lever/Knob	1
2	81-6619-2896-999	Set Screw	1
3	50-8403-x001-FIN	R3 Rose Scalp	1
Not Shown	50-8404-x001-FIN	R4 Rose Scalp	
Not Shown	50-8405-x001-FIN	R5 Rose Scalp	
Not Shown	50-8406-x001-FIN	R6 Rose Scalp	
Not Shown	50-8407-x001-FIN	R7 Rose Scalp	
Not Shown	50-8408-x001-FIN	R8 Rose Scalp	
4	81-3112-0526-036	Sheet Metal Screw	4
5	DL-2052	Dummy Spindle Assembly	1



trim: lever and knob single-sided active trim with escutcheon

For all products.

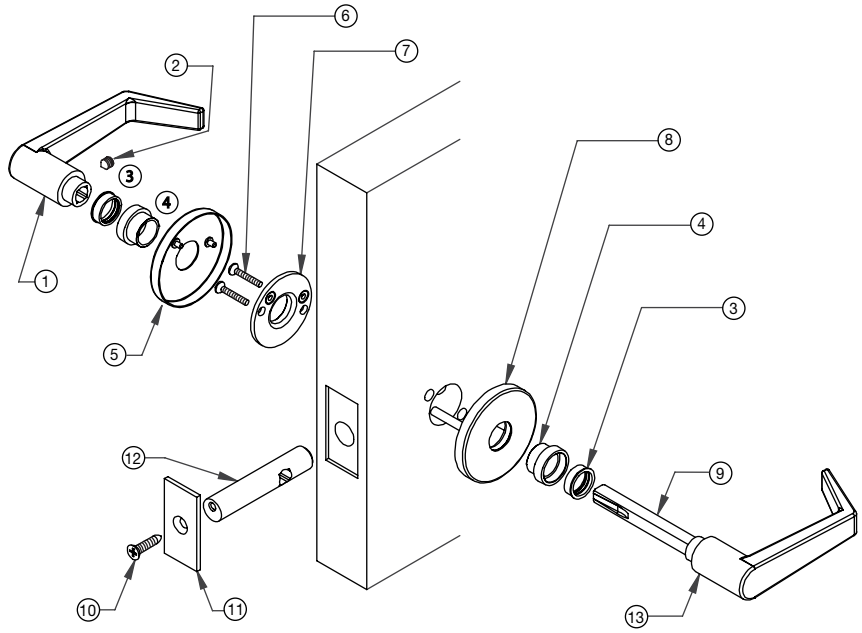
Item	Part Number	Description	Quantity
1	See Page 26	Lever/Knob	1
2	81-6619-2896-999	Set Screw	1
3	10-0086-9038-999	Nylon Bushing	1
4	See Page 27	Escutcheon Plate (spacing number 201)	1
5	81-3173-0520-FIN	Mounting Screw	2
6	50-1198-0007-048	Hook Spindle	1
7	99-9999-3990-999	.094 x .250 Rollpin	2



trim: lever and knob double sided dummy trim with rose or escutcheon

Item	Part Number	Description	Quantity
1	See Page 26	Levers/ Knobs	2
2	81-6619-2896-999	Set Screw	1
3	10-0086-9038-999	Nylon Bushing	2
4	10-0502-2004-FIN	Rose Thimble Adapter	2
5	10-0501-x002-FIN*	CO Rose Scalp (Outside or Inside)	2
Not Shown	50-8403-x001-FIN*	R3 Rose Scalp (Outside or Inside)	2
Not Shown	50-8404-x001-FIN*	R4 Rose Scalp (Outside or Inside)	2
Not Shown	50-8405-x001-FIN*	R5 Rose Scalp (Outside or Inside)	2
Not Shown	50-8406-x001-FIN*	R6 Rose Scalp (Outside or Inside)	2
Not Shown	50-8407-x001-FIN*	R7 Rose Scalp (Outside or Inside)	2
Not Shown	50-8408-x001-FIN*	R8 Rose Scalp (Outside or Inside)	2
6	81-0611-0420-999	Mounting Screws (1-3/4" door) Std.	2
6	81-0013-0424-048	Mounting Screws (2" - 2-1/4" door)	2
6	81-0013-0428-999	Mounting Screws (2-1/4" - 2-3/4" door)	2
7	50-0505-0004-999	Inside Mounting Plate	1
8	50-0506-0004-999	Outside Mounting Plate Assembly	1
9	50-1173-1011-048	Spindle Assembly (1-3/4" door) Std.	1
9	50-1173-1012-048	Spindle Assembly (2" - 2-1/4" door)	1
9	50-1173-1013-048	Spindle Assembly (2-1/4" - 3-1/4" door)	1
10	80-0122-0620-FIN	Rigid Spindle Bar Front Screw	1
11	50-0836-2002-FIN	Dummy Front	1
12	50-0838-1001-000	Spindle Bar	1
Not Shown	See Page 27	Escutcheon Plates	2

* = X in 3rd set of numbers is the base material designation
2 = Brass
7 = Steel



trim: lever and knob part numbers

Type	Design	Hand	Part Numbers Product Shipped After October 2011	
			Outside	Inside
Reflections®	TB		10-0904-x810-FIN	10-0905-x810-FIN
	TC		10-0904-x831-FIN	10-0905-x831-FIN
	TD		10-0904-x861-FIN	10-0905-x861-FIN
	TE		10-0904-x858-FIN	10-0905-x858-FIN
	TG	RH	10-0904-x864-FIN	10-0905-x864-FIN
	TG	LH	10-0904-x867-FIN	10-0905-x867-FIN
	TI	RH	10-0904-x079-FIN	10-0905-x079-FIN
	TI	LH	10-0904-x082-FIN	10-0905-x082-FIN
	TJ	RH	10-0904-x879-FIN	10-0905-x879-FIN
	TJ	LH	10-0904-x882-FIN	10-0905-x882-FIN
	TK	RH	10-0904-x846-FIN	10-0905-x846-FIN
	TK	LH	10-0904-x849-FIN	10-0905-x849-FIN
	TM		10-0904-x804-FIN	10-0905-x804-FIN
	TN		10-0904-x813-FIN	10-0905-x813-FIN
	TO	RH	10-0904-x073-FIN	10-0905-x073-FIN
	TO	LH	10-0904-x076-FIN	10-0905-x076-FIN
	TP		10-0904-x816-FIN	10-0905-x816-FIN
	TQ		10-0904-x897-FIN	10-0905-x897-FIN
	TR		10-0904-x819-FIN	10-0905-x819-FIN
	TS		10-0904-x828-FIN	10-0905-x828-FIN
	TT	RH	10-0904-x852-FIN	10-0905-x852-FIN
	TT	LH	10-0904-x855-FIN	10-0905-x855-FIN
	TU	RH	10-0904-x822-FIN	10-0905-x822-FIN
	TU	LH	10-0904-x825-FIN	10-0905-x825-FIN
	TV	RH	10-0904-x834-FIN	10-0905-x834-FIN
	TV	LH	10-0904-x837-FIN	10-0905-x837-FIN
	TW	RH	10-0904-x873-FIN	10-0905-x873-FIN
	TW	LH	10-0904-x876-FIN	10-0905-x876-FIN
	TW (round shank)	RH	10-0904-x239-FIN	10-0905-x239-FIN
	TW (round shank)	LH	10-0904-x240-FIN	10-0905-x240-FIN
	TX	RH	10-0904-x885-FIN	10-0905-x885-FIN
	TX	LH	10-0904-x888-FIN	10-0905-x888-FIN
	TX (round shank)	RH	10-0904-x247-FIN	10-0905-x247-FIN
	TX (round shank)	LH	10-0904-x248-FIN	10-0905-x248-FIN
	TY	RH	10-0904-x891-FIN	10-0905-x891-FIN
	TY	LH	10-0904-x894-FIN	10-0905-x894-FIN
	TZ	RH	10-0904-x085-FIN	10-0905-x085-FIN

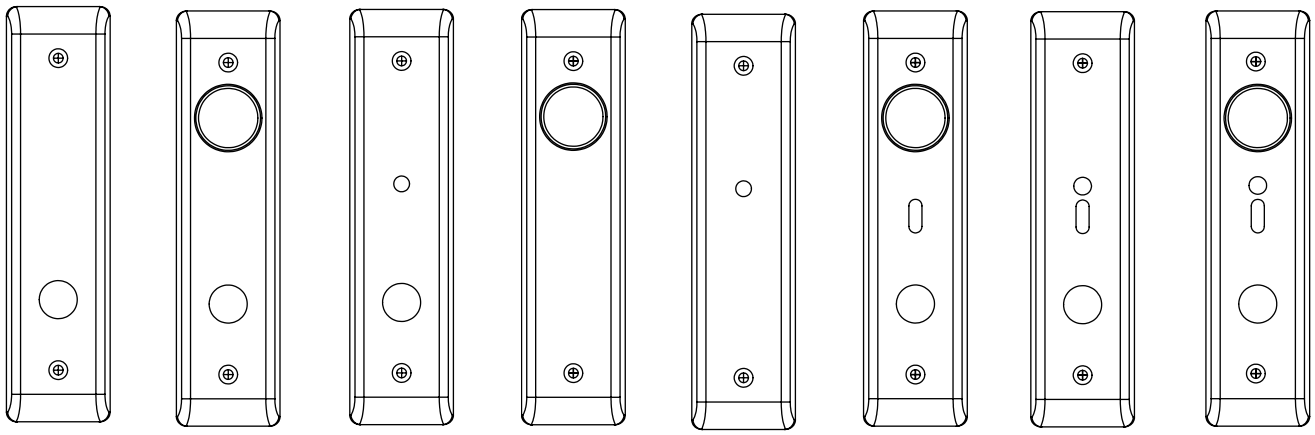
Type	Design	Hand	Part Numbers Product Shipped After October 2011	
			Outside	Inside
Reflections®	TZ	LH	10-0904-x088-FIN	10-0905-x088-FIN
	UB		10-0904-x907-FIN	10-0905-x907-FIN
	UC		10-0904-x913-FIN	10-0905-x913-FIN
	UW	RH	10-0904-x901-FIN	10-0905-x901-FIN
	UW	LH	10-0904-x904-FIN	10-0905-x904-FIN
	UX	RH	10-0904-x064-FIN	10-0905-x064-FIN
	UX	LH	10-0904-x067-FIN	10-0905-x067-FIN
	RA	RH	10-0904-6012-FIN	10-0905-6012-FIN
	RA	LH	10-0904-6013-FIN	10-0905-6013-FIN
	RB	RH	10-0904-6022-FIN	10-0905-6022-FIN
	RB	LH	10-0904-6023-FIN	10-0905-6023-FIN
	RC	RH	10-0904-6032-FIN	10-0905-6032-FIN
	RC	LH	10-0904-6033-FIN	10-0905-6033-FIN
	MA	RH	10-0904-6042-FIN	10-0905-6042-FIN
	MA	LH	10-0904-6043-FIN	10-0905-6043-FIN
	TL		50-0803-0000-FIN	50-0802-0000-FIN
	TA		50-0809-0000-FIN	50-0808-0000-FIN
	TF	RH	50-0842-0000-FIN	50-0844-0000-FIN
	TF	LH	50-0845-0000-FIN	50-0841-0000-FIN
	TH		50-0872-0000-FIN	50-0871-0000-FIN
Standard	AR	RH	10-0902-x021-FIN	10-0903-x024-FIN
	AR	LH	10-0902-x022-FIN	10-0903-x023-FIN
	AU		10-0904-x036-FIN	10-0905-x017-FIN
	CR		10-0904-x071-FIN	10-0905-x070-FIN
	JN		10-0902-x011-FIN	10-0903-x012-FIN
	MO		10-0904-x051-FIN	10-0905-x051-FIN
	PB		10-0904-x054-FIN	10-0905-x054-FIN
	PN		10-0904-x045-FIN	10-0905-x054-FIN
	VI		10-0904-x055-FIN	10-0905-x055-FIN
	HA		10-0904-2151-FIN	10-0905-2151-FIN
	ZAU		10-0904-6036-FIN	10-0905-6017-FIN
	ZCR		10-0904-6071-FIN	10-0905-6070-FIN
	ZMO		10-0904-6051-FIN	10-0905-6051-FIN
	ZPB		10-0904-6054-FIN	10-0905-6054-FIN
	CO		10-0035-x487-FIN	10-0035-x483-FIN
	LF		10-0035-x285-FIN	10-0035-x338-FIN

* = X in 3rd set of numbers is the base material designation
2 = Brass
7 = Steel

trim: escutcheon plates

When ordering escutcheons separately, specify the model number of the escutcheon plate suffixed with the spacing number. The spacing number indicates the hole preparation in the escutcheon plate to coordinate with the lock functions (i.e. CN87 x 201).

- 260, 261, & 262 used with CN escutcheon only. These are an assembly which includes indicator.
- 262 used with CN88 only



201 208 211 250 251 260 261 262

Model Number	Description
CN87	Inside for CN
CN88	Outside for CN
SL87	Inside for SL
SL88	Outside for SL
E1-87	Inside for E1
E1-88	Outside for E1
E2-87	Inside for E2
E2-88	Outside for E2
E3-87	Inside for E3
E3-88	Outside for E3
E4-87	Inside for E4
E4-88	Outside for E4

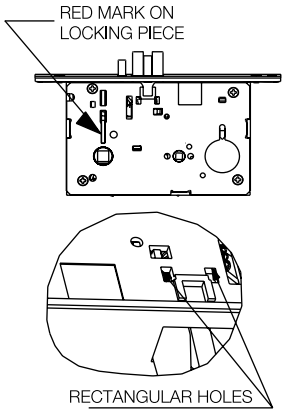
handing/troubleshooting

handing the 8800 mortise lock

Units Shipped Prior To March 2012

HANDING THE LATCHBOLT

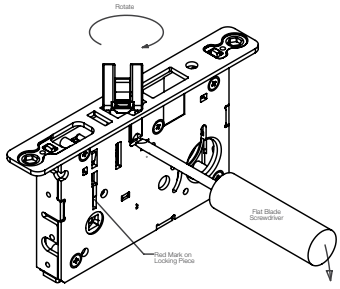
1. Locate and depress spring plate mechanism in one of the rectangular holes.
2. While depressing spring plate pull latchbolt head.
3. Rotate head for desired handing.
4. Push head into lockbody until secured.
5. Operate several times to insure operation.



Units Shipped After March 2012

HANDING THE LATCHBOLT

1. Insert a flat blade screwdriver into cover slot.
2. Pull back on screwdriver until latchbolt extends past the base front.
3. Rotate head to desired position.



HANDING THE HUBS (LEVER OPERATION)

1. Locate the red mark on locking piece
2. The red mark indicates the locked side
3. Push toggle button to the "Unlock" position
4. With a flat blade screwdriver push red mark on locking piece to rotate locking piece 180° to the desired location
5. The locking piece must be fully rotated 180° for proper operation

troubleshooting

Installation Trouble Shooting Tips		
Problem	**Possible Cause**	**Solution**
Difficult to operate lock by lever or by key.	Loose (Trim H.M. Doors) (Vibration caused by normal operation of door opening and closing can loosen attaching screws)	Adjust and tighten - as necessary. If screws continually loosen up, use a screw locking compound (such as Loctite) on all attaching screws.
	Door is warped or sagging, binding up latch bolt in strike cutout.	Check to see where latch is hanging up in strike. If door is sagging, tightening top hinge screws may solve problem. Hole in strike plate mave have to be filed to relieve bind. Doors can warp when weather changes: warm inside - cold outside cool inside - hot outside (Exterior doors painted in a dark color are particularly susceptible to warpage when exposed to direct sunlight.) It may take a few seasonal changes to work out all binding problems.
Loose Trim (wood doors)	Wood doors after being installed will sometimes shrink slightly as the building dries out.	Tighten all screws as needed
Latch bolt hangs up in lock body	Foreign object in lock body (metal shavings, saw dust, wood particles, mineral ore etc.)	Remove lock from door and remove foreign object from body. *Lubricate if necessary.
	Lock body lacks lubrication or lubrication has gummed up with age.	Use penetrating or solvent type lubricant as a cleaning agent to loosen frozen or sticking components. Lubricate with silicon base or Lithium Grease.
Cylinder jams up	Dirt or other foreign object may be in keyway affecting operation.	Lubricate cylinder with graphite or other non-oily lubricant (such as Lock-EZE) Do not use oil based lubricants in Keyway.

notes

online literature and templates

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- Installation instructions

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