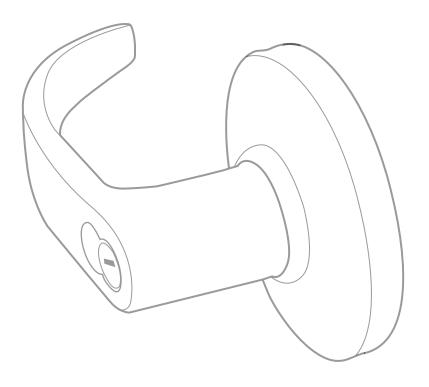


9K Series

Standard and electrified locks

Service Manual



T56082_G - 04/2024 Original document

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Written and designed at:

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T56082_G B1823547 ER7991-6 April 2024

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1 Getting started

1.1 Introduction

The 9K Series Service Manual contains essential information to help you maintain your 9K Series Lock. This manual addresses standard and electrified 9K Series Locks. Throughout this manual, the term electrified is used to refer to 93KW–95KW DEL, DEU function locks.

1.2 Certifications and standards

9K series locks

- Locks comply with ANSI A 156.2, Series 4000 Grade 1 standards.
- Locks are listed by Underwriter's Laboratories for use on 3 Hr., A label single swinging doors (4' x 1 0'), or pairs of doors 8' wide and 10' high.
- When used with the 3/4" throw latch, the locks comply with Miami-Dade County standards with a design pressure rating of ±90 PSF for single doors and ±50 PSF for double door openings.
- AB, C, D, EA, G, IN, NX, Q, R, and YD function locks comply with ANSI A 250.13 Windstorm standards with a design load rating of 1750 pounds.
- Chassis conforms to ANSI A 1 1 5.2.
- KS3 strike fits the standard door frame cutout as specified in ANSI A 1 1 5.2.
- #14 and #15 lever handles conform to California Administrative Code Title 19 and Title 24.
- #14, #15, and #16 lever handles conform to the Illinois Accessibility Standard.

Electrified locks

- KW Locks are UL listed for GYQS electrically controlled single point locks or latches.
- KW Locks are approved by the California State Fire Marshal (CSFM) pursuant to section 13144.1 of the California Health and Safety Code.
- 9KW Locks are approved by the city of New York Board of Standards and Appeals under calendar number 730-89-SA. See CSFM listing number 4136-1175:103.

Accessories

- 8W599 transformer is UL listed.
- 8WCON AC to DC converter full wave bridge rectifier is UL recognized.

1.3 Documentation package

Table 1

The following documentation is available to help you with the installation, start-up, and maintenance of your 9K Series Lock.

The installation and assembly instructions also can be ordered separately:

Documentation title	Doc No.
Installation Instructions for 9K Cylindrical Locks	T56075
Single and Double Dummy Trim Assembly Instructions for 9K1DT/2DT	T56076
Wiring Instructions for 8K and 9K Series Electrified Cylindrical Locks with RQE	T56090
Door Wiring Instructions for Electrically-Operated Locks	T61926

A link to all installation instructions are included in this manual on page 54.

The templates required for lock installations also can be ordered separately:

Documentation title	Doc No.
K08 Template for Door and Frame Preparation for 63, 73, 83, 93K Locks	T56052
K09 Template for Door and Frame Preparation for 63, 73, 83, 93K Locks	T56053
K10 Template for Door and Frame Preparation for 64, 84, 94K Locks	T56054
K11 Template for Door and Frame Preparation for 64, 84, 94K Locks	T56055
K12 Template for Door and Frame Preparation for 65, 85, 95K Locks	T56056
K13 Template for Door and Frame Preparation for 65, 85, 95K Locks	T56057
K18 Template for 8K/9K Dummy Trim	T56059
K21 Template for Strike Specification for Cylindrical Locks	T56060
W14 Template; Installation Specifications for 83KW/93KW-85KW/95KW IDH Max Cylindrical Locks	T60777
W16 Template; Installation Template for 83KW/93KW-85KW/95KW IDH Max Cylindrical Locks	T60773

A link to all templates are included in this manual on page 54.

1.4 Technical support

Support services

When you have a question about the 9K Series Lock, your first resource for help is the 9K Series Service Manual. If you cannot find a satisfactory answer, contact your local dormakaba representative.

Contact technical support

A factory-trained Certified Product Specialist (CPS) is available in your area whenever you need. Before you call, please make sure that the product is in your immediate vicinity, and that you are prepared to give the following information:

- What happened and what were you were doing when the problem arose?
- What have you done so far to correct the problem?

dormakaba USA Inc. representatives provide telephone technical support for all 9K Series products. You may locate the representative nearest you by calling 1-800-392-5209. Monday through Friday, between 8:00 a.m. and 5:00 p.m. eastern standard time; or visit the web page: <u>https://dhwsupport.dormakaba.com/hc/en-us</u>.

dormakaba holds training sessions for its customers. The seminars are specifically designed for dormakaba end-users who have a registered dormakaba [BEST branded product] masterkeyed system and registered dormakaba [BEST branded product] security equipment. If you are interested, you may contact your local dormakaba representative for details.

2 Functions and parts lists

The following pages contain function descriptions for all 9K Series Locks. This chapter also includes exploded diagrams that show all field serviceable mechanical parts, diagrams of trim and other miscellaneous parts, and function conversion information.

2.1 Function descriptions

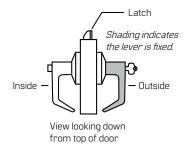
Fig. 1

This section includes function descriptions grouped by the following function types:

- Single-keyed (page 9)
- Double-keyed (page 1 0)
- Non-keyed (page 11)
- Special (<u>page 1 2</u>)
- Electrified (page 1 4)

For a list of the BEST designation for each ANSI-defined function, see page 15.

NOTE: If function is ANSI defined, ANSI designation appears by function name.





2.2 Single-keyed functions

Fig. 2

Single-keyed functions

The following lists describe how the latchbolt, outside lever, and inside lever operate for each single-keyed 9K function.

AB-Entrance (ANSIF109)

- Latchbolt operated by: Inside lever
 - Outside key
 - Outside lever when inside button is in unlocked position

Outside lever locked by:

Inside button, pushed in Inside button, pushed in and rotated clockwise

Outside lever unlocked by:

- Inside lever when inside button is pushed in but not rotated
- Outside key when inside button is pushed in but not rotated
- Closing door when inside button is pushed in but not rotated

Inside lever is always unlocked.

D-Storeroom (ANSI F86)



Latchbolt operated by:

- Inside lever
- Outside key

Outside lever always fixed. Inside lever always unlocked.

E–Service station (ANSI F92)

Latchbolt operated by:

- Inside lever
- Outside key
- Outside lever, with inside button in unlocked position

Outside lever locked by:

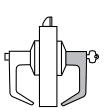
Inside slotted button Inside slotted button, pushed in and rotated clockwise

Outside lever unlocked by:

- Inside lever
- Inside slotted button, rotated counterclockwise
- Outside key
- Closing door with inside button pushed in but not rotated

Inside lever is always unlocked.

H and HJ – Hotel guest room (ANSI F93 - H only)



Latchbolt operated by:

- Inside lever
- Outside key when inside . button is in unlocked position
- Special emergency key after removing core with control key

Outside lever is always fixed.

- Key block feature released by:
- Inside lever
 - Closing door

Inside lever is always unlocked.

NOTE: For H function, pushing inside button projects an "Occupied" indicator in outside lever and blocks all operating keys. For HJ function, pushing inside button blocks all operating keys.

R-Classroom (ANSI F84)

Latchbolt operated by:

- Inside lever
- Outside key
 - Outside lever when not locked

Outside lever locked by:

Outside key

Outside lever unlocked by:

Outside key

Inside lever is always unlocked.

(ANSI F90)

Latchbolt operated by:

- Inside lever
- Outside lever when not locked

Outside lever locked by:

- Inside button
- Outside key

Outside lever unlocked by:

- Inside lever when inside button is pushed in
- Outside key
- Closing door when inside button is pushed in

Inside lever is always unlocked.

T-Dormitory







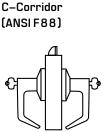
2.3 Double-keyed functions

Fig. 3

Double-keyed functions

The following lists describe how the latchbolt, outside lever, and inside lever operate for each double-keyed 9K function.

Locks that secure both sides of the door are controlled by building codes and the Life Safety Code®. In an emergency exit situation, failure to quickly unlock the door could be hazardous, or even fatal.



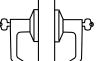
Latchbolt operated by: Inside lever

Outside key

WARNING (G, S, and W functions):

.

Outside lever when not locked



Outside lever locked by:

- Inside key Outside lever unlocked by:
- Inside kev

Inside lever is always unlocked.

G-Storeroom (ANSIF91)

Latchbolt operated by:

- Inside lever when not locked .
 - Outside lever when not locked

Outside lever locked by:

- Inside key
- Outside key

Outside lever unlocked by:

- Inside kev
- Outside key

Inside lever locked by:

- Inside key
- Outside key

Inside lever unlocked by:

- Inside key unlocks both sides.
 - Outside key

IN-Intruder

NOTE: Turning key

in inside or outside

lever locks or

Latchbolt operated by:

- Inside lever
- Outside lever when not locked

Outside lever locked by:

- Inside kev
- Outside key

Outside lever unlocked by:

- Inside key
- Outside key

Inside lever is always unlocked.

S-Communicating (ANSI F80)



NOTE: Turning key in either lever locks or unlocks that lever independently.

W-Institutional

Outside key Outside lever when not locked

Latchbolt operated by:

Inside lever when not locked

Inside key

- Outside lever locked by:
- Outside key

Outside lever unlocked by:

- Outside key
- Inside lever locked by:
- Inside key •

Inside lever unlocked by:

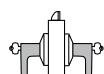
Inside key •

Latchbolt operated by:

- Inside key
- Outside key

Outside lever is always fixed.

Inside lever is always fixed.



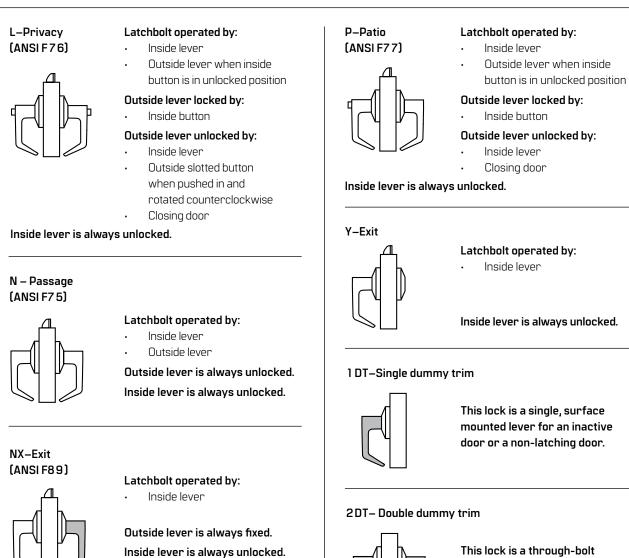


2.4 Non-keyed functions

Fig. 4

Non-keyed functions

The following lists describe how the latchbolt, outside lever, and inside lever operate for each non-keyed 9K function.



This loc mounte levers t or non-

This lock is a through-bolt mounted pair of matching levers for an inactive door or non-latching door.

2.5 Special functions

Fig. 5

Special functions

The following lists describe how the latchbolt, outside lever, and inside lever operate for each double-keyed 9K function.

Warning: Locks that secure both sides of door are controlled by building codes and Life Safety Code®. In an emergency exit situation, failure to quickly unlock door could be hazardous, or even fatal.

A-Dormitory or storeroom lock (ANSI F81) Latchbolt operated by: Inside lever Outside key Outside lever when inside button is in unlocked position Outside lever locked by: Inside button Inside lever is Outside lever unlocked by: always unlocked. Inside button NOTE: Inside button must be rotated counterclockwise to unlock outside lever. B-Office Latchbolt operated by: (ANSIF82) Inside lever Outside key Outside lever when inside button is in unlocked position Outside lever locked by: Inside button

Outside lever unlocked by:

- Inside lever
 - Outside key

NOTE: Inside button is released by turning key in outside lever, or rotating inside lever. Closing door does not release inside button.

DZ- Closet or storeroom

Inside lever is

always unlocked.

Latchbolt operated by:

- Inside turn knob
- Outside key

Outside lever is always fixed Inside turn knob is always unlocked.

EA- Entrance or office



Inside lever is always unlocked.

NOTE: Turning slotted button keeps outside lever locked until button is turned back.

Latchbolt operated by: Inside lever

- Outside key
- Outside lever when inside button is in unlocked position

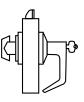
Outside lever locked by:

- Inside button
- Inside button, pushed in and rotated clockwise

Outside lever unlocked by:

- Inside lever
- Inside button rotated counterclockwise
- Outside key

RZ-Closet or storeroom



Latchbolt operated by: Inside turn knob

- Outside kev
- Outside lever when
- not locked

Outside lever locked by:

Outside key

Outside lever unlocked by:

Outside key

XR- Special

Inside turn knob is

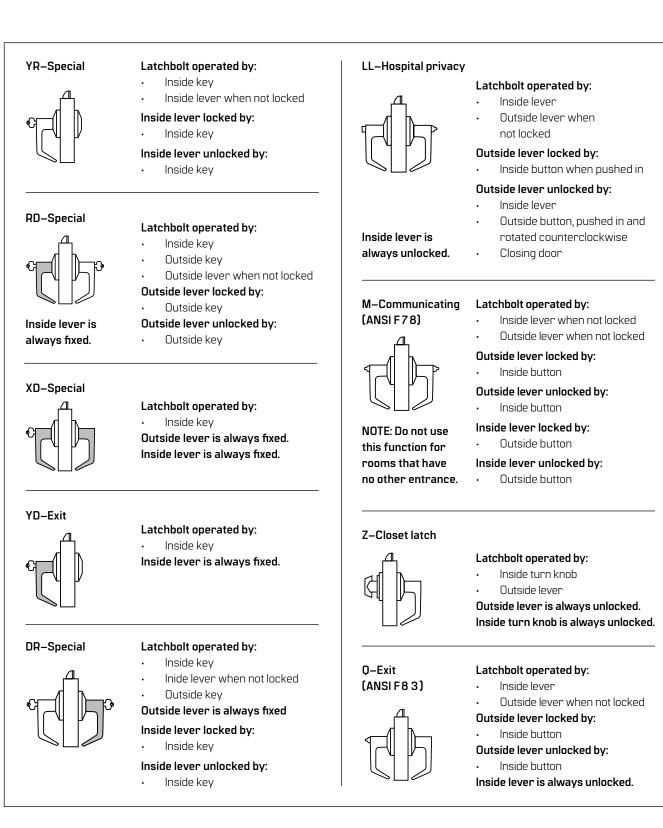
always unlocked.



- Latchbolt operated by:
- Inside key
- Inside lever when not locked

Outside lever is always fixed. Inside lever locked by:

- Inside key
- Inside lever unlocked by:
- Inside key

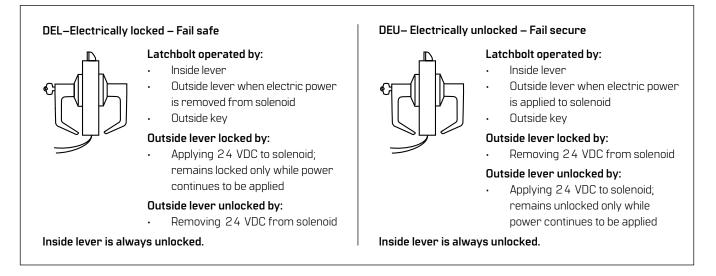


2.6 Electrified cylindrical functions

Fig. 6

Electrified cylindrical functions

The following lists describe how the latchbolt, outside lever, and inside lever operate for each electrified 9K function.



2.7 Functions by ANSI designation

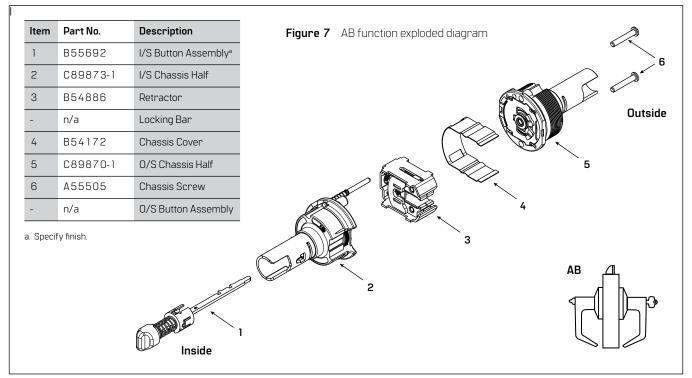
Table 2

ANSI No.	Function
F75	Ν
F76	L
F77	Р
F78	Μ
F80	S
F81	А
F82	В
F83	Q
F84	R
F86	D
F87	W
F88	С
F89	NX
F90	Т
F91	G
F92	E
F93	Н
F109	AB

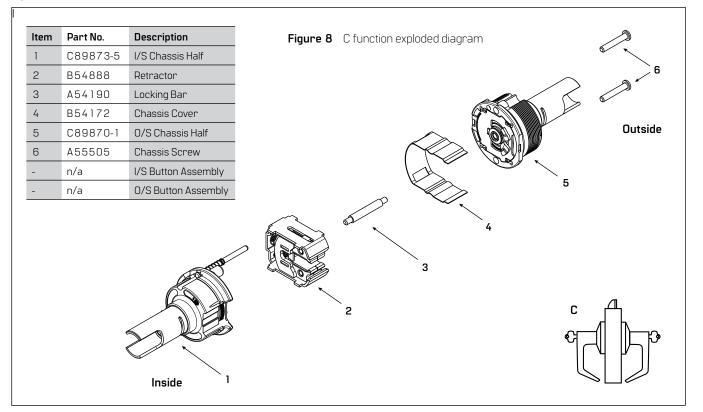
3 Standard functions – Exploded diagrams

3.1 AB function chassis – Entrance lock (ANSI F109)

Fig. 7

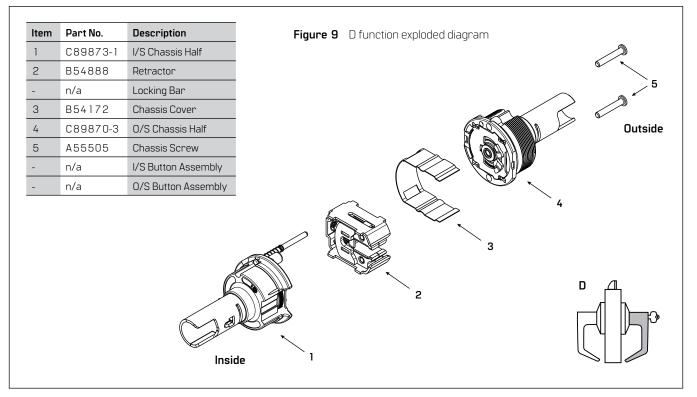


3.2 C function chassis – Corridor lock (ANSI F88)



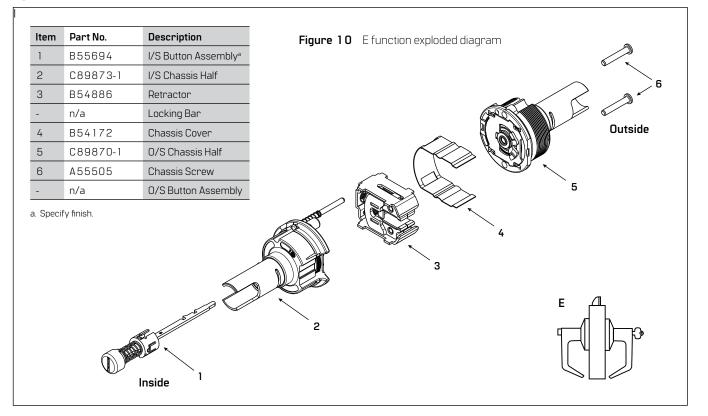
3.3 D function chassis – Storeroom lock (ANSI F86)

Fig. 9



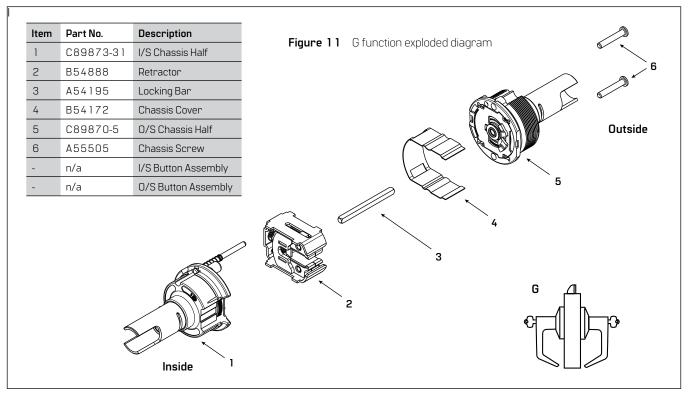
3.4 E function chassis – Service station lock (ANSI F92)

Fig. 1 0



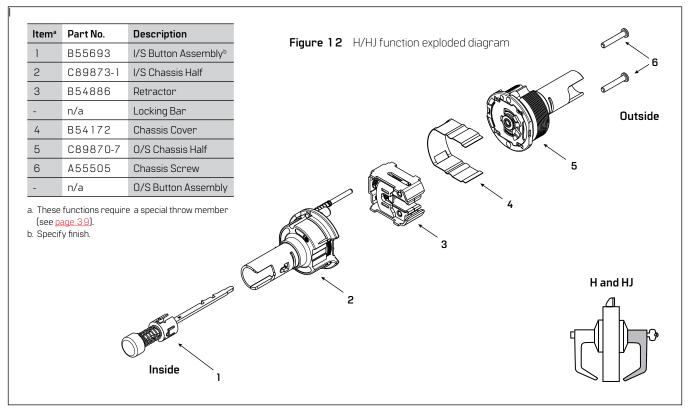
3.5 G function chassis – Storeroom lock (ANSI F91)

Fig. 1 1



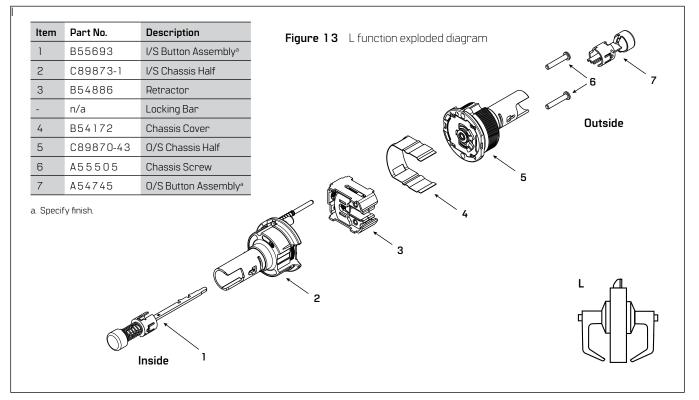
3.6 H function chassis – Hotel guest room lock with indicator (F93) HJ function chassis – Hotel guest room lock without indicator

Fig. 1 2



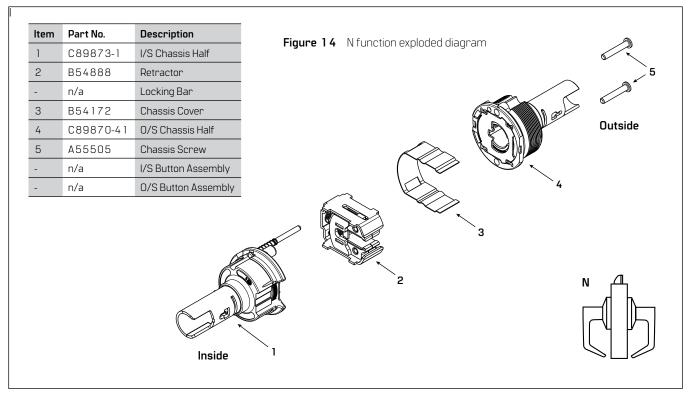
3.7 L function chassis – Privacy lock (ANSI F76)

Fig. 1 3



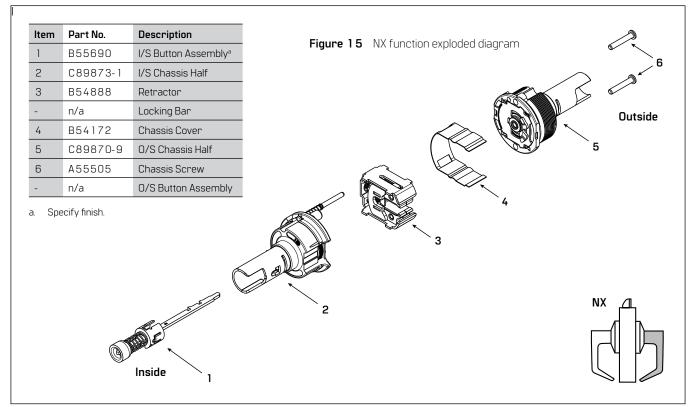
3.8 N function chassis – Passage lock (ANSI F75)

Fig. 1 4

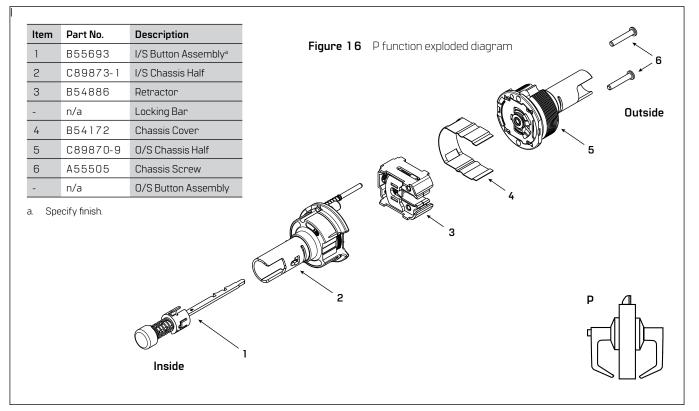


3.9 NX function chassis – Exit lock (ANSI F89)

Fig. 1 5

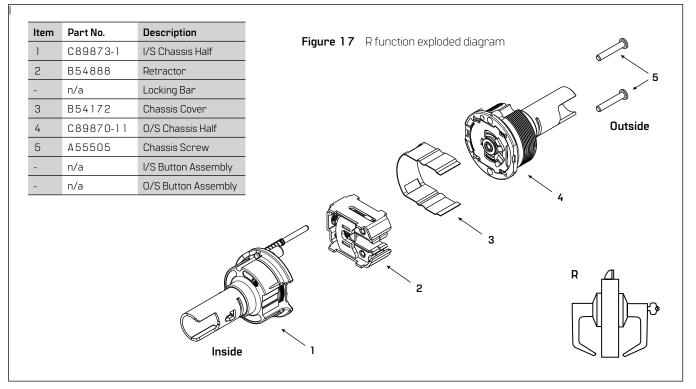


3.10 P function chassis – Patio lock (ANSI F77)

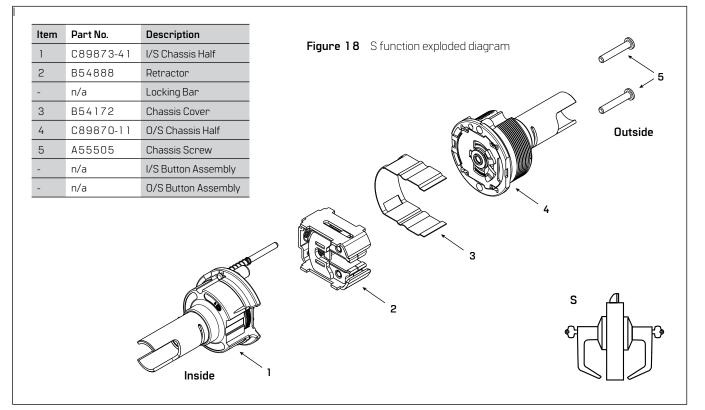


3.1.1 R function chassis – Classroom lock (ANSI F84)

Fig. 17

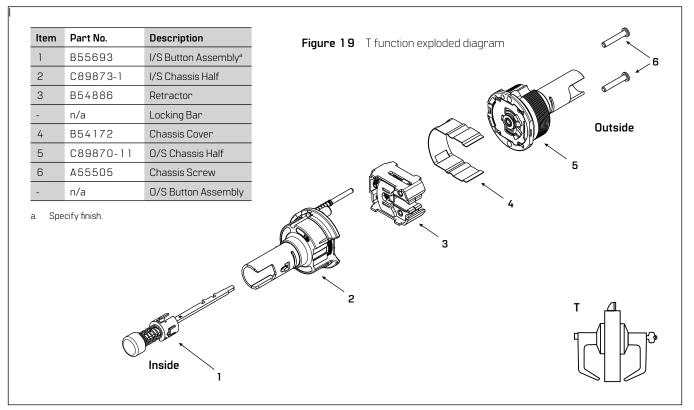


3.12 S function chassis – Communicating lock (ANSI F80)

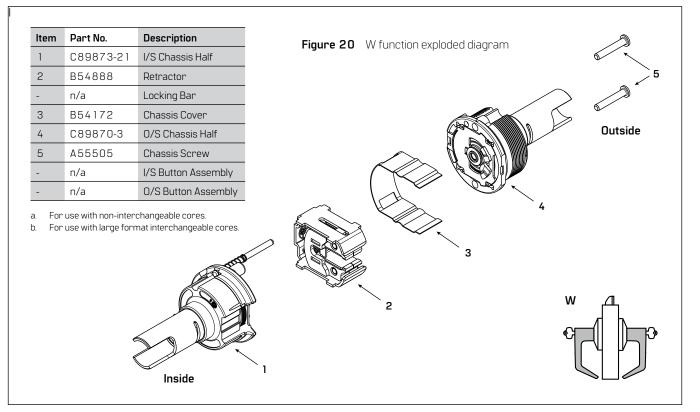


3.13 T function chassis – Dormitory lock (ANSI F90)

Fig. 19



3.14 W function chassis – Utility or institutional lock (ANSI F87)



3.15 Y function chassis – Exit lock

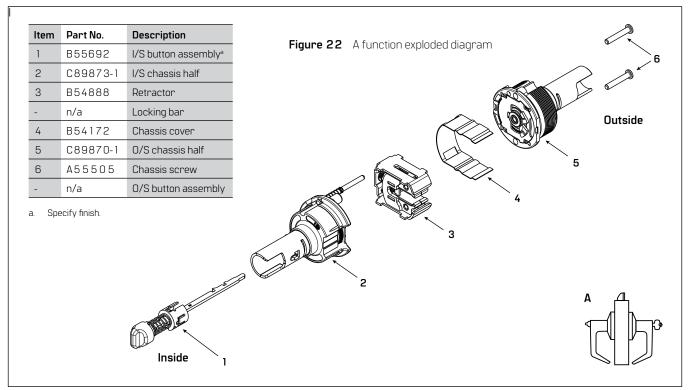
Fig. 2 1

2	C89873-1 B54888 n/a	I/S Chassis Half Retractor	Figure 21 Y function exploded diagram	5
		Retractor		5
	n/a			
3	n, u	Locking Bar	8400	
	B54172	Chassis Cover		0
4	C89870-48	0/S Chassis Half		Outside
ō	A55511	Chassis Screw		
	n/a	I/S Button Assembly		
	n/a	O/S Button Assembly		4
			2	

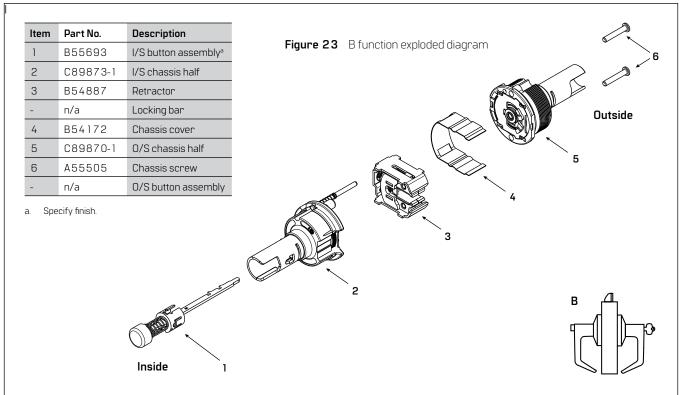
4 Non-standard functions – exploded diagrams

4.1 A function chassis – Entrance lock (ANSI F 8 1)

Fig. 22

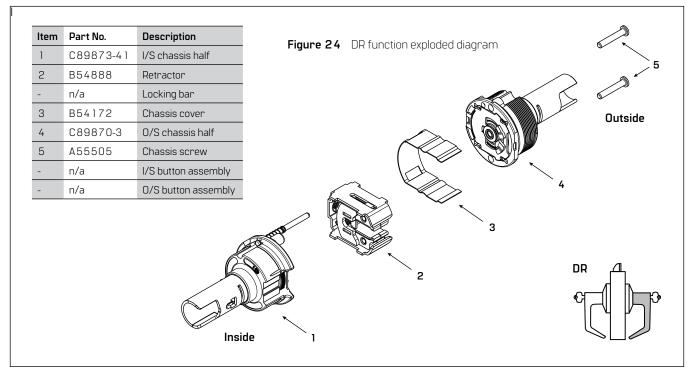


4.2 B function chassis – Office lock (ANSI F82)

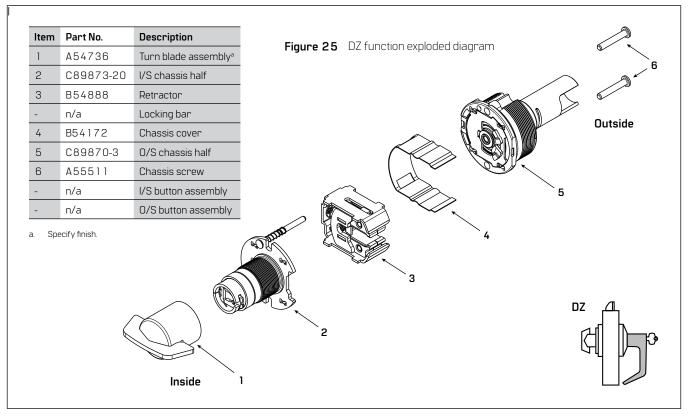


4.3 DR Function chassis – Special lock

Fig. 24

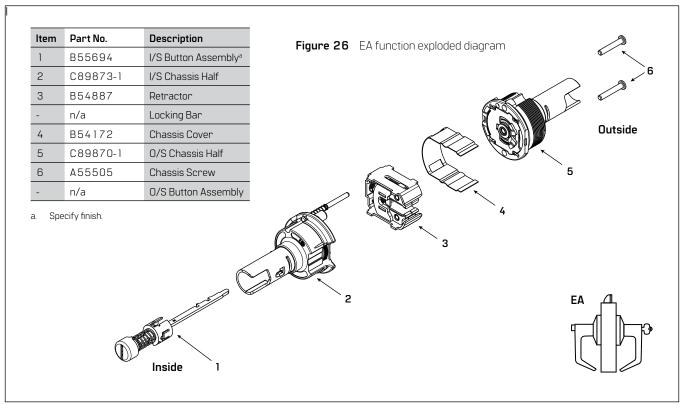


4.4 DZ function chassis – Closet or storeroom lock

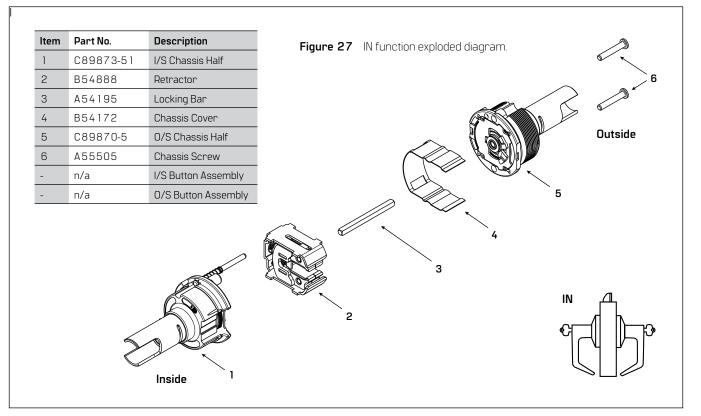


4.5 EA function chassis – Entrance or office lock

Fig. 26

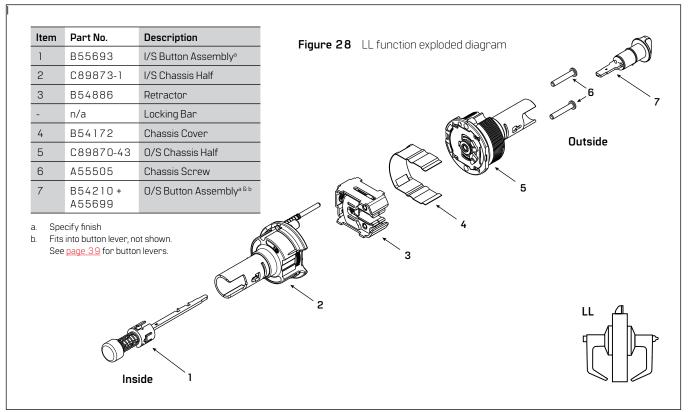


4.6 IN function chassis – Intruder lock

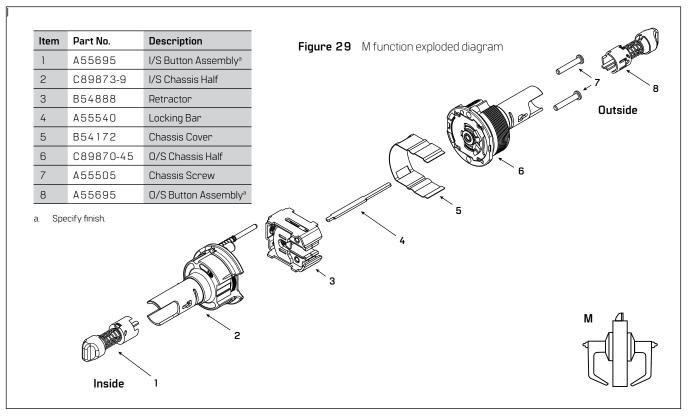


4.7 LL function chassis – Hospital privacy lock

Fig. 28

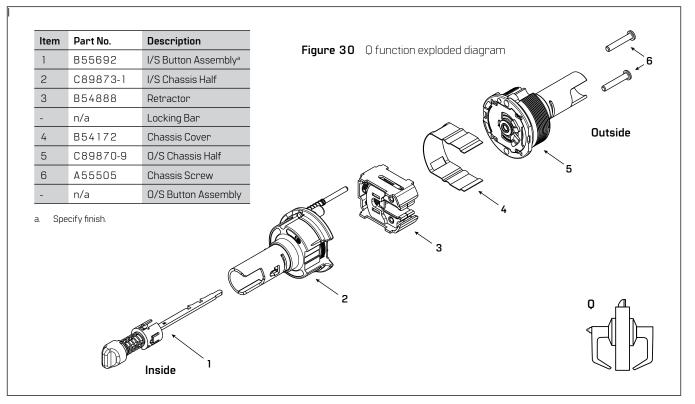


4.8 M function chassis – Communication lock (ANSI F78)



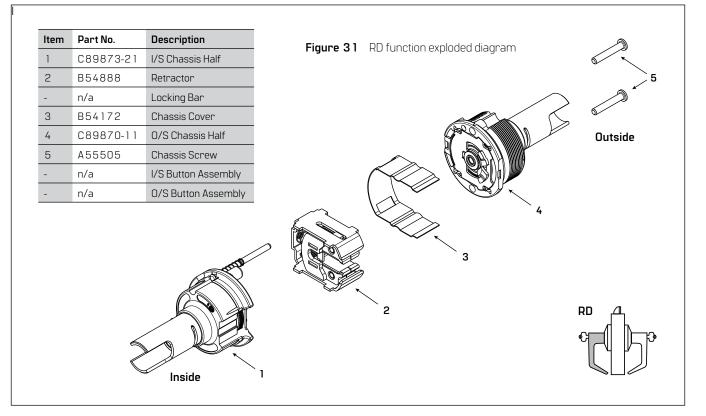
4.9 Q function chassis – Exit lock (ANSI F83)

Fig. 3 0



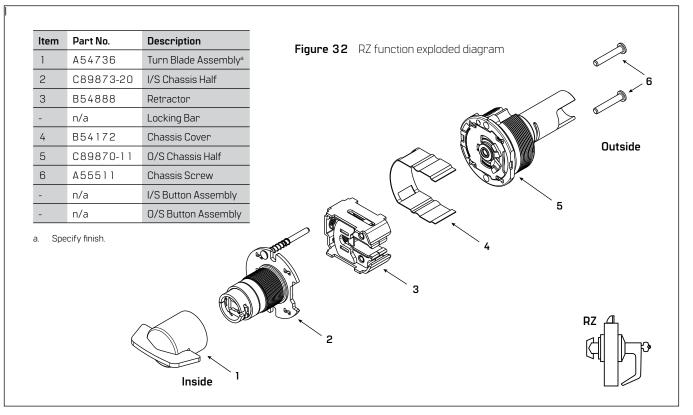
4.10 RD function chassis – Special lock

Fig. 3 1

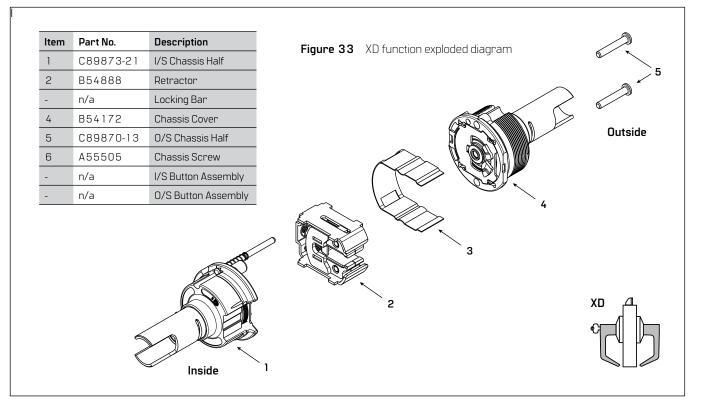


4.1.1 RZ function chassis – Closet or storeroom lock

Fig. 32

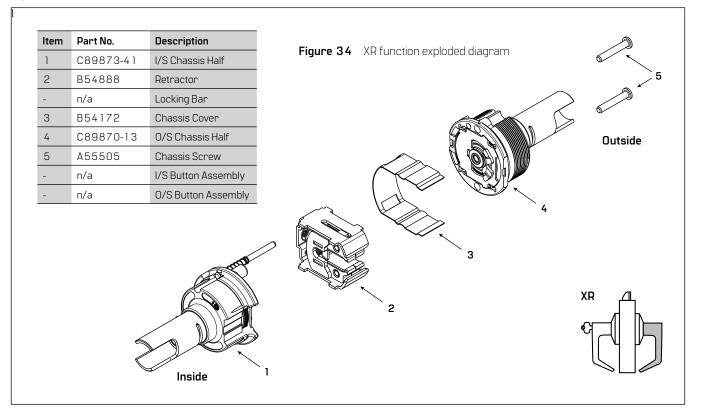


4.12 XD function chassis – Special lock

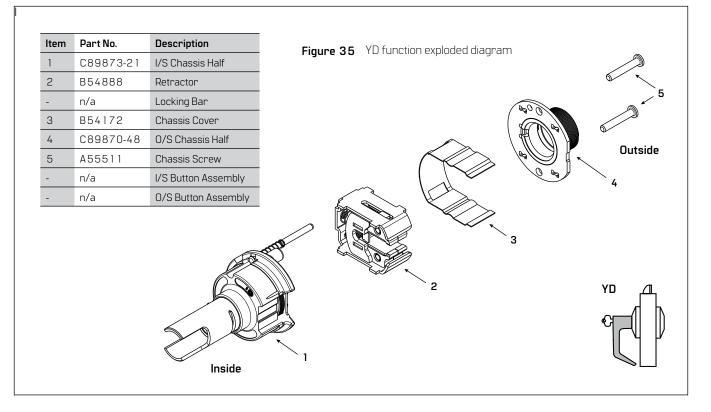


4.13 XR function chassis – Special lock

Fig. 3 4

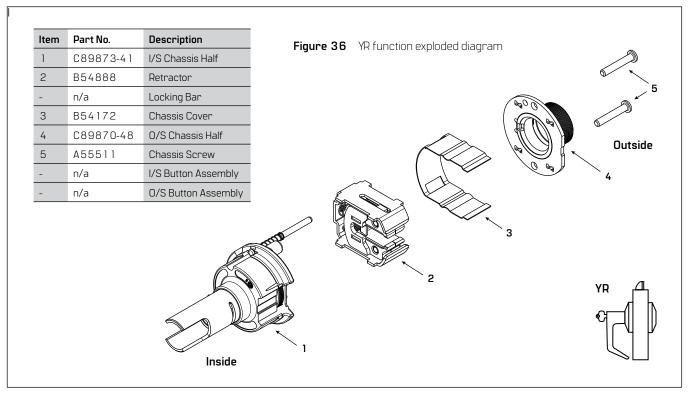


4.1.4 YD function chassis – Exit lock

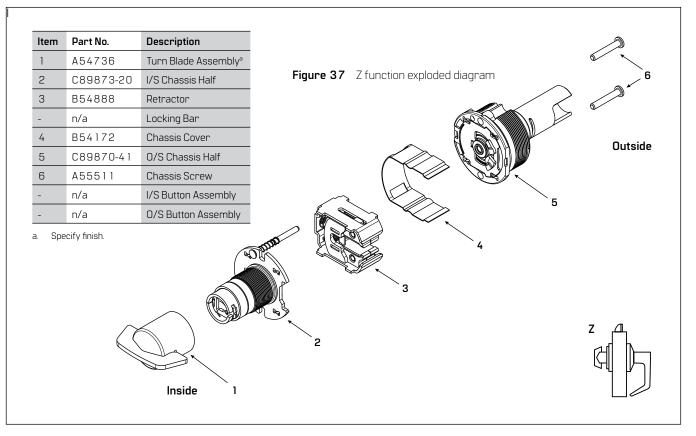


4.15 YR function chassis – Special lock

Fig. 36



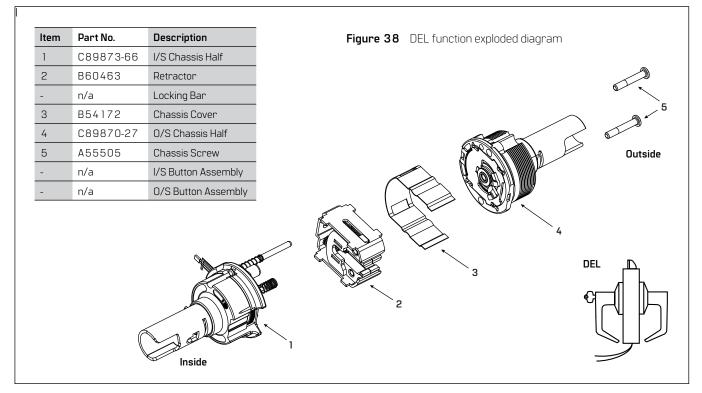
4.16 Z function chassis – Closet lock



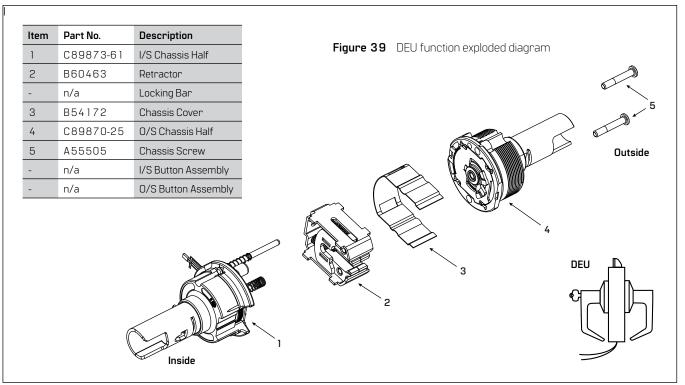
5 Electrified functions - exploded diagrams

5.1 DEL function chassis - Electrically locked fail safe

Fig. 38



5.2 DEU function chassis - Electrically unlocked fail safe



5.3 Replacement chassis matrix by function

Table 3

		STD	LM	RQE	LM w/ RQE	Non-IC	Non-IC w/LM	Non-IC w/ RQE	Non-IC w/ LM & RQE
	Α	C89886-1	C89886-2	C89886-3	C89886-4	C89886-6	C89886-7	C89886-8	C89886-9
	AB, E	C89886-41	C89886-42	C89886-43	C89886-44	C89886-46	C89886-47	C89886-48	C89886-49
	B, EA, UA	C89886-81	C89886-82	C89886-83	C89886-84	C89886-86	C89886-87	C89886-88	C89886-89
	С	C89886-121	C89886-122	n/a	n/a	C89886-126	C89886-127	n/a	n/a
	D	C89886-161	C89886-162	C89886-163	C89886-164	C89886-166	C89886-167	C89886-168	C89886-169
	DR	C89886-201	C89886-202	n/a	n/a	C89886-206	C89886-207	n/a	n/a
	DZ	C89886-241	C89886-242	n/a	n/a	C89886-246	C89886-247	n/a	n/a
	G	C89886-281	C89886-282	n/a	n/a	C89886-286	C89886-287	n/a	n/a
	H, HJ	C89886-321	C89886-322	C89886-323	C89886-324	n/a	n/a	n/a	n/a
	IN	C89886-341	C89886-342	n/a	n/a	C89886-346	C89886-347	n/a	n/a
	L, LL	C89886-381	C89886-382	C89886-383	C89886-384	n/a	n/a	n/a	n/a
	М	C89886-401	C89886-402	n/a	n/a	n/a	n/a	n/a	n/a
Functions	Ν	C89886-421	n/a	C89886-423	n/a	n/a	n/a	n/a	n/a
unct	NX, Q	C89886-441	C89886-442	C89886-443	C89886-444	n/a	n/a	n/a	n/a
ш	Р	C89886-461	C89886-462	C89886-463	C89886-464	n/a	n/a	n/a	n/a
	R	C89886-481	C89886-482	C89886-483	C89886-484	C89886-486	C89886-487	C89886-488	C89886-489
	RD	C89886-521	C89886-522	n/a	n/a	C89886-526	C89886-527	n/a	n/a
	RZ	C89886-561	C89886-562	n/a	n/a	C89886-566	C89886-567	n/a	n/a
	S	C89886-601	C89886-602	n/a	n/a	C89886-606	C89886-607	n/a	n/a
	Т	C89886-641	C89886-642	C89886-643	C89886-644	C89886-646	C89886-647	C89886-648	C89886-649
	W	C89886-681	C89886-682	n/a	n/a	C89886-686	C89886-687	n/a	n/a
	XD	C89886-721	C89886-722	n/a	n/a	C89886-726	C89886-727	n/a	n/a
	XR	C89886-761	C89886-762	n/a	n/a	C89886-766	C89886-767	n/a	n/a
	Y	C89886-801	n/a	C89886-803	n/a	n/a	n/a	n/a	n/a
	YD	C89886-821	C89886-822	n/a	n/a	C89886-826	C89886-827	n/a	n/a
	YR	C89886-861	C89886-862	n/a	n/a	C89886-866	C89886-867	n/a	n/a
	Z	C89886-901	n/a	n/a	n/a	n/a	n/a	n/a	n/a

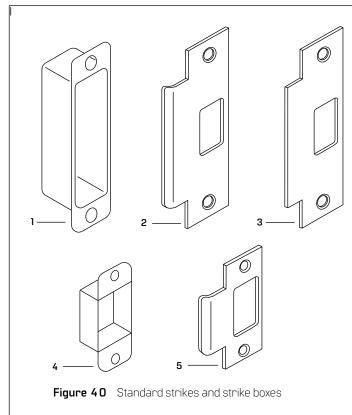
5.3 Replacement chassis matrix by function (continued)

		Sargent LFIC	Sargent LFIC w/LM	Sargent LFIC w/RQE	Sargent LFIC w/LM & RQE	Yale LFIC	Yale LFIC w/LM	Yale LFIC w/RQE	Yale LFIC w/LM & RQE
	Α	C89886-11	C89886-12	C89886-13	C89886-14	C89886-16	C89886-17	C89886-18	C89886-19
	AB, E	C89886-51	C89886-52	C89886-53	C89886-54	C89886-56	C89886-57	C89886-58	C89886-59
	B, EA, UA	C89886-91	C89886-92	C89886-93	C89886-94	C89886-96	C89886-97	C89886-98	C89886-99
	С	C89886-131	C89886-132	n/a	n/a	C89886-136	C89886-137	n/a	n/a
	D	C89886-171	C89886-172	C89886-173	C89886-174	C89886-176	C89886-177	C89886-178	C89886-179
	DR	C89886-211	C89886-212	n/a	n/a	C89886-216	C89886-217	n/a	n/a
	DZ	C89886-251	C89886-252	n/a	n/a	C89886-256	C89886-257	n/a	n/a
	G	C89886-291	C89886-292	n/a	n/a	C89886-296	C89886-297	n/a	n/a
	H, HJ	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	IN	C89886-351	C89886-352	n/a	n/a	C89886-356	C89886-357	n/a	n/a
	L, LL	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
S	М	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
⁻ unctions	Ν	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Fun	NX, Q	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Р	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	R	C89886-491	C89886-492	C89886-493	C89886-494	C89886-496	C89886-497	C89886-498	C89886-499
	RD	C89886-531	C89886-532	n/a	n/a	C89886-536	C89886-537	n/a	n/a
	RZ	C89886-571	C89886-572	n/a	n/a	C89886-576	C89886-577	n/a	n/a
	S	C89886-611	C89886-612	n/a	n/a	C89886-616	C89886-617	n/a	n/a
	Т	C89886-651	C89886-652	C89886-653	C89886-654	C89886-656	C89886-657	C89886-658	C89886-659
	W	C89886-691	C89886-692	n/a	n/a	C89886-696	C89886-697	n/a	n/a
	XD	C89886-731	C89886-732	n/a	n/a	C89886-736	C89886-737	n/a	n/a
	XR	C89886-771	C89886-772	n/a	n/a	C89886-776	C89886-777	n/a	n/a
	Y	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	YD	C89886-831	C89886-832	n/a	n/a	C89886-836	C89886-837	n/a	n/a
	YR	C89886-871	C89886-872	n/a	n/a	C89886-876	C89886-877	n/a	n/a
	Z	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

6 Trim parts

6.1 Standard strikes and strike boxes

Fig. 4 0



Standard strikes and strike boxes parts list:

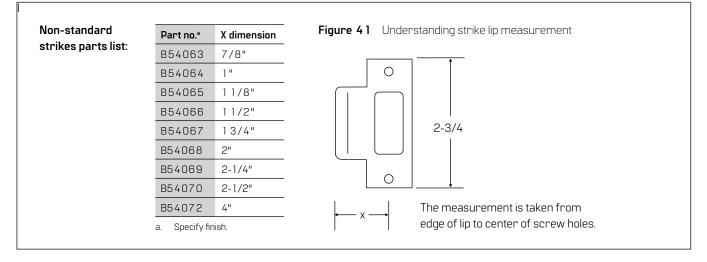
ltem	Nomen- clature	Part No.	Description
1	30 HS 4	B34380	ANSI plastic strike box
2	8KSª3	B25641	ANSI strike plate
3	83KS3	C63016	ANSI 7/8" flat lip strike
4	8KS1	B25640	Standard steel strike box
5	8KS [⊾] 2	B25639	Standard strike plate

 Two [2] A 25359 latch screws and two [2] A 18724 strike screws are included with the 8KS3 strike. 30HS4 ANSI Strike box is not included.

 Four (4) A25359 screws are included with 8KS2 strike-two (2) for latch and two (2) for the strike.

6.2 Non-standard strikes

Fig. 4 1



Lead-lined parts 6.3

portions indicate lead shields.

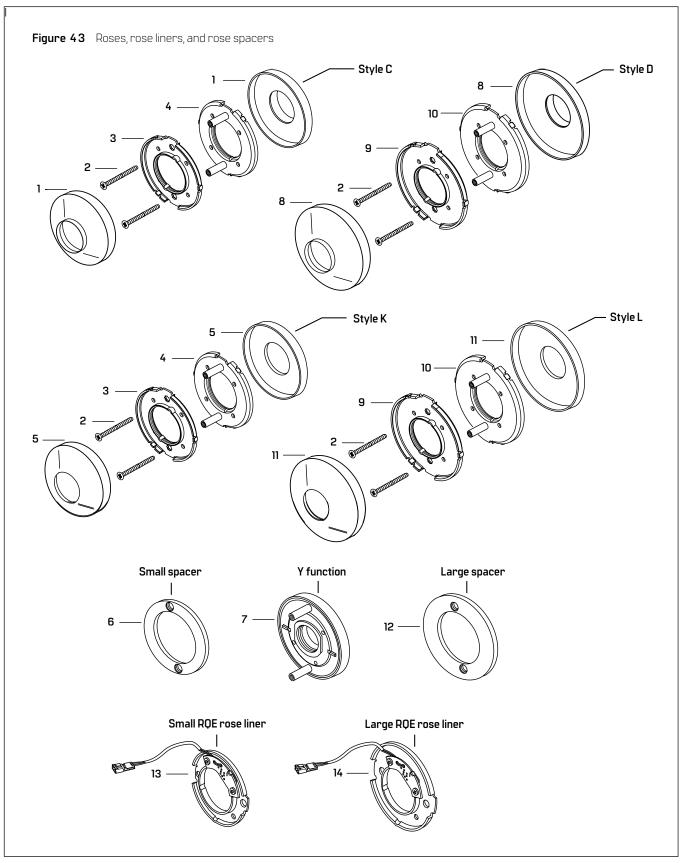
Fig. 4 2

Lead-lined parts list Description ltem 1 Turn button liner with shield 1 2 Inside lever sleeve with shield ₽ (for button levers) ∄ З Hub and side plate with shield 4 Inside lever sleeve with shield 2 (for plain levers) 3 NAAA Lead-lined option is available for new lock orders only. Because individual lead-lined parts are not field-serviceable, they are not available to order for replacement parts. See Figure 42. Shaded

Figure 42 Cross-section of 9K locks showing lead-lined parts

6.4 Roses, rose liners, and rose spacers

Fig. 4 3



6.5 Rose, rose liners, rose spacers, parts lists

Table 4

ltem	Style	Part no.	Description
1	С	B55015ª	Small rose
2	C, D, K, L	A55557	Through-bolt screws
3	C & K	C55556	Small inside rose liner
4	C & K	B55603	Small outside rose liner
5	К	B55018°	Small rose
6	C & K	B55043⁵	Small rose spacer
7	N/A	A55711	Y function outside rose assembly
8	D	B55007ª	Large rose
9	D & L	C55555	Large inside rose liner
10	D & L	B55602	Large outside rose liner
not shown	D & L	C81795	ATB large inside rose liner
not shown	D & L	B81797	ATB large outside rose liner
not shown	D & L	C88595	ATB2 large inside rose liner
not shown	D & L	B89836	ATB2 large outside rose liner
11	L	B55017ª	Large rose
12	D & L	B55044 ^b	Large rose spacer
13	N/A	B61049	Small RQE rose liner
14	N/A	B60221	Large RQE rose liner

a. Inside and outside are the same.

b. Two (2) spacers are required for 1 3/8" thick doors.

6.6 Rose and rose liner assemblies and parts list Table 5

ltem	Style	Part no.	Description
1&3	С	B55609	Small inside rose and liner assembly
1&4	С	B55605	Small outside rose and liner assembly
3&5	К	B55607	Small inside rose and liner assembly
4&5	К	B55604	Small outside rose and liner assembly
8&9	К	B55608	Large inside rose and liner assembly
8&10	D	B55601	Large outside rose and liner assembly
not shown	D	B81796	ATB Large inside rose and liner assembly
not shown	D	B81798	ATB Large outside rose and liner assembly
not shown	D	B88937	ATB2 Large inside rose and liner assembly
not shown	D	B88638	ATB2 Large outside rose and liner assembly
9&11	L	B55606	Large inside rose and liner assembly
10&11	L	B55600	Large outside rose and liner assembly

6.7 Standard levers and components

Fig. 4 4

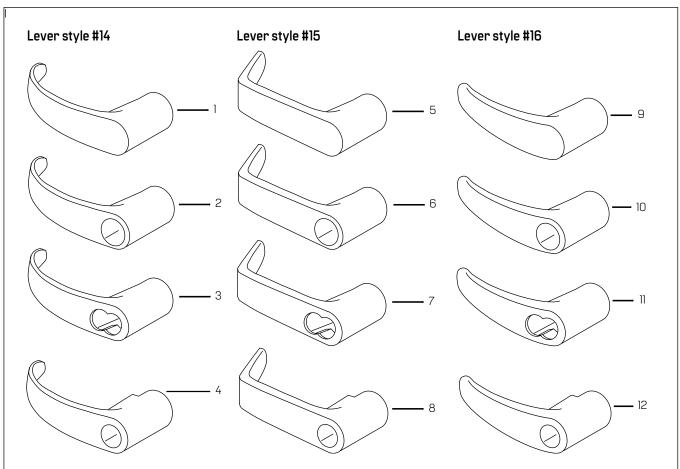


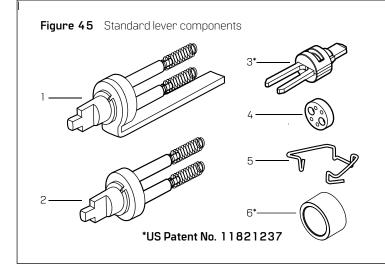
Figure 44 Standard levers and components

Levers parts list

Style	ltem	Part No.	Description	ltem	Part No.	Description
	1	D55022	Plain lever	not shown	D81211	Schlage LFIC Lever
	2	D55021	Button lever	not shown	D88621	Yale LFIC Lever
#14	3	D55020	Keyed lever	not shown	D88622	Sargent LFIC Lever
	not shown	B55100	Keyed lever for H functions	not shown	D88623	Corbin Russwin LFIC Lever
	4	D80989	Universal lever for use with non-interchangeable cores			
	5	B55169	Plain lever	not shown	D81212	Schlage LFIC Lever
	6	B55170	Button lever	not shown	D88624	Yale LFIC Lever
#15	7	B55168	Keyed lever	not shown	D88625	Sargent LFIC Lever
#10	not shown	B55177	Keyed lever for H functions	not shown	D88626	Corbin Russwin LFIC Lever
	8	D55723	Universal lever for use with non-interchangeable cores			
	9	D55025	Plain lever	not shown	D86149	Schlage LFIC Lever
	10	D55024	Button lever	not shown	D88627	Yale LFIC Lever
#16	11	D55023	Keyed lever	not shown	D88628	Sargent LFIC Lever
#10	not shown	B55110	Keyed lever for H functions	not shown	D88629	Corbin Russwin LFIC Lever
	12	D80992	Universal lever for use with non-interchangeable cores			

6.8 Standard lever components

Fig. 4 5



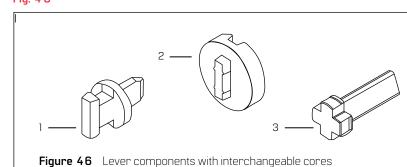
Lever components parts list:

ltem	Part No.	Qty.	Description
1	A55697	1	"H" throw member
2	A55696	1	"HJ" throw member
3	B92503] a	9K throw member ^{b*}
4	1882120	50	Six pin spacer
5	B54182	1	Lever keeper spring
6	B92501	1	Sleeve bushing*

a. Single-keyed locks require one (1); double-keyed locks require two (2).

 b. For information about cores and keys, see Core and Key Service Manual.

6.9 Lever components with interchangeable cores Fig. 46



Lever components with interchangeable cores parts list:

Item	Part No.	Qty.	Description
1	A88633	1	Yale tailpiece
2	A88634	1	Yale six pin spacer
3	B88756	1	Schlage tailpiece

6.10 Lever components for use with non-interchangeable cores Fig. 47

Lever components for use with non-interchangeable cores parts list

ltem	Part No.	Qty.	Description
1	B55709ª] ^b	Throw member for use with Sargent and Yale non-interchangeable cores ^c
2	A55708d] ^b	Throw member for use with Schlage, Corbin, KA, KD, and OB cores ^c
3	A55712°] b	Throw member for use with Medeco core ^c
4	C55714] ^b	Lever handle insert for use with non- interchangeable cores
5	A55713] ^b	Throw member support ring for use with non-interchangeable cores

a. To order kit that contains throw member, insert, and support ring for use with Sargent cores, use number 1770600. For Yale cores, use number 1770642; this kit contains two throw members, two inserts, and two support rings.

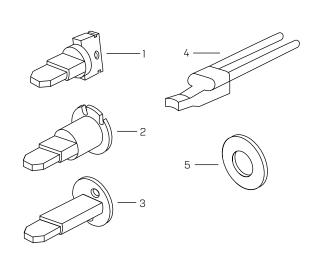
- b. Single-keyed locks require one (1); double-keyed locks require two (2).
- c. For information about cores and keys, see Core and Key Service Manual.
- To order kit that contains throw member, insert, and support ring for use with Schlage, Corbin, KA, KD, and OB cores, use number 1770527.
- e. To order kit that contains throw member, insert, and support ring for use with Medeco cores, use number 1778196.

Non-interchangeable cylinders parts list

Part No.	Finish.	Description
1888913	626	Non-interchangeable cylinder, keyed different
1888955	606	Non-interchangeable cylinder, keyed different
1891329⁵	626	Non-interchangeable cylinder, keyed alike
1891287ª	606	Non-interchangeable cylinder, keyed alike
1888756	626	Non-interchangeable cylinder, zero-bitted
1888798	606	Non-interchangeable cylinder, zero-bitted

a. Throw members shipped with non-interchangeable cylinders are incompatible with 9K Series Locks. Refer to Lever components for use with non-interchangeable cores parts list above to select appropriate throw member.

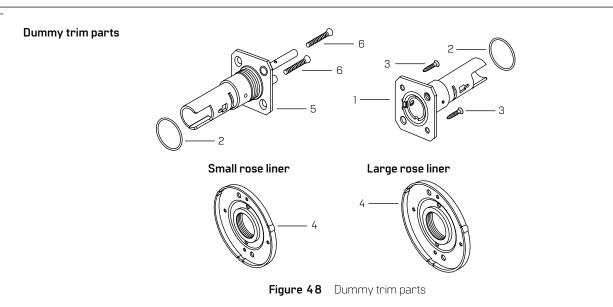
b. Contains a set of four (4) cylinders.



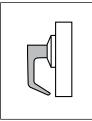


6.11 Dummy trim

Fig. 48

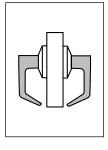


Single dummy trim parts list



Item	Part No.	Qty.	Description
1	B55067	1	Chassis sub-assembly
2	A54465	1	"O" ring
3	A39217	2	#8 × 1 PFH type AB screw
4	B55051	1	Small liner and ring assembly or
	B55050	1	Large liner and ring assembly

Double dummy trim parts list

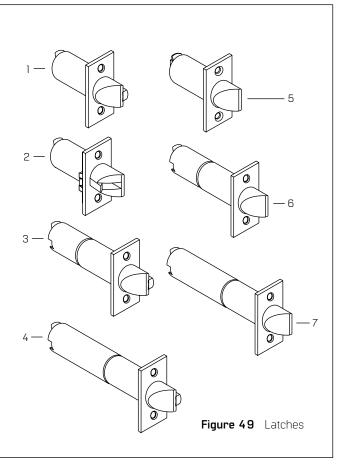


ltem	Part No.	Qty.	Description
1	B55239	1	Chassis sub-assembly
2	A54465	2	"O" ring
4	B55051	2	Small liner and ring assembly or
	B55050	2	Large liner and ring assembly
5	B55067	1	Chassis sub-assembly
6	A18991	2	#8-32×1-1/8 Phil. FHMS screw

6.12 Latches Fig. 49

Latches parts list

ltem	Latch Type	Backset	Part No.	Nomen- clature.	Description
1	Deadlocking	2-3/4"	C54680	8KL3	Latch
2	Deadlocking	2-3/4"	A54661	N/A	Latch with 3/4" throw
3	Deadlocking	3-3/4"	C54682	8 KL 4	Latch
4	Deadlocking	5"	C54684	8KL5	Latch
5	Spring	2-3/4"	C54681	8KSL3	Latch
6	Spring	3-3/4"	C54683	8KSL4	Latch



6.13 Installation tools

Fig. 5 0

Installation tools parts list

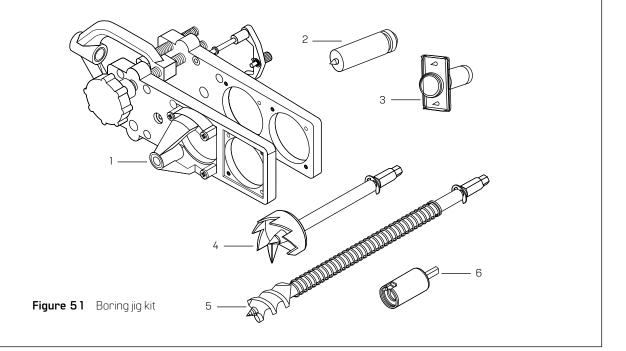
ltem	Nomen- clature	Part No.	Description
1	KD303	C55034	Drill jig
2	KD325	A01514	Strike plate locating pin
3	KD315	1350393	Faceplate marking chisel

6.14 Boring jig kit

Fig. 5 1

ltem	Nomen- clature	Part No.	Description
1	N/A	N/A	Boring jig ^a
2	KD325	A01514	Strike plate locating pin
3	KD315	1350393	Faceplate marking chisel $(1-1/8" \times 2-1/4")$
not shown	KD312	1487975	Faceplate marking chisel [1" x 2-1/4"]
4	KD309	A54084	2-1/8" diameter chassis hole bit assembly
5	KD318	A54085	1 " diameter drill bit assembly
6	N/A	N/A	Adaptor for 3/8" drill chuck ^a
1-6	KD304A	N/A	Boring jig kit

a. Can only be ordered as part of KD304A boring jig kit.



7 Service and maintenance – replacing parts

This chapter contains instructions for removing and replacing components, servicing and maintaining components, and troubleshooting common questions.

Service and maintenance issue	Page			
Replace levers				
Replace inside rose and rose liners				
Replace outside rose and liner assembly				
Replace RQE rose liner for electrified locks				
Replace button assembly				
Replace lever keeper spring				
Lubricate cores				
Align chassis and trim				
Position locking cam for C function locks				
Position locking cam for G and IN function locks	<u>52</u>			
Use emergency key for H and HJ function locks	<u>53</u>			
Troubleshoot common problems	<u>54</u>			

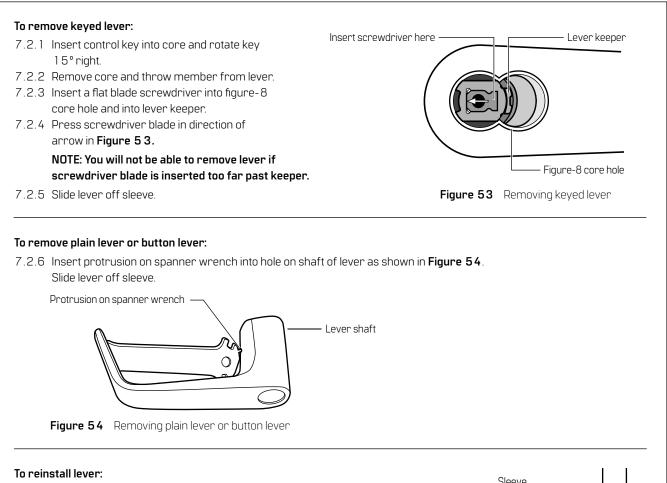
7.1 Maintenance tools required

Fig. 5 2

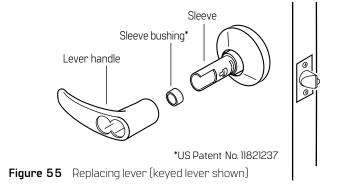
em	Nomen- clature	Part No.	Description
1	KD340	N/A	Spring loading tool
2	KD317	C55506	Spanner wrench
3	N/A	A25586	Emergency driver ^a
	For use wit	h hotel funr	ction locks (H and HJ).

7.2 Replacing lever

Fig. 53 , Fig. 54, Fig. 55



- 7.2.7 Position lever so handle points toward door hinges.
- 7.2.8 Slide lever onto sleeve and firmly push on lever until it is seated. Turn levers to ensure smooth operation.
- 7.2.9 If lever is keyed, insert control key into core and rotate key 15° right. Using control key, insert core and throw member into lever. Rotate control key 15° left and remove key.



7.3 Replacing inside rose and rose liner

Fig. 56 , Fig. 57 , Fig. 58

To remove inside rose and rose liner:

- 7.3.1 Remove inside lever (page 45).
- 7.3.2 Insert solid, curved end of spanner wrench in between rose and sleeve, as shown in Figure 56. Pry rose until it pops off of liner.

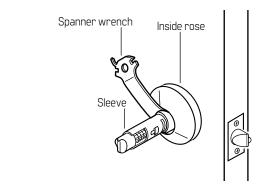


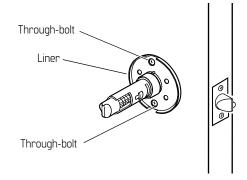
Figure 56 Removing inside rose with spanner wrench

To reinstall inside rose and rose liner:

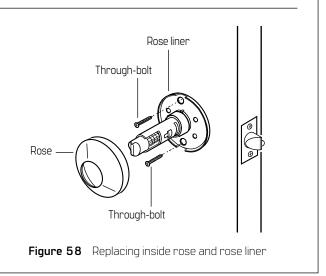
- 7.3.5 Align holes in liner with holes prepared in door.
- 7.3.6 Install two through-bolts through liner and door in top and bottom holes.
- 7.3.7 Tighten liner onto door with through-bolts. If there is an RQE rose liner, connect it.
- 7.3.8 Install rose.
- 7.3.9 Reinstall lever (page 45).



7.3.4 If there is an RQE rose liner, disconnect it. Slide liner off of sleeve.

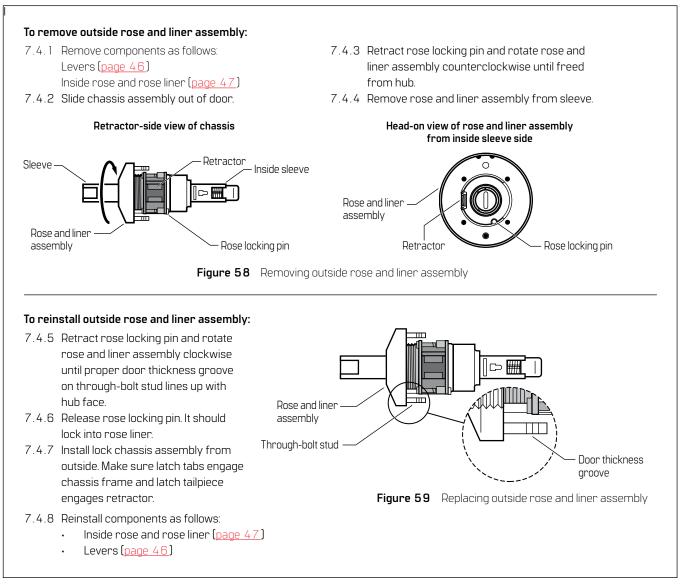






7.4 Replacing outside rose and liner assembly

Fig. 58, Fig. 59



7.5 Replacing RQE rose liner for electrified locks

To remove RQE rose liner:

- 7.5.1 Remove components as follows:
 - Levers (page 46).
 - Inside rose and rose liner (page 47)

To reinstall RQE rose liner:

7.5.4 Place RQE rose liner on chassis, aligning holes in rose liner with holes prepared in door.

CAUTION: Ensure there is clearance for solenoid wire between RQE rose liner and door.

- 7.5.2 Disconnect RQE connector.
- 7.5.3 Remove through-bolts and RQE rose liner.
- 7.5.5 Install through-bolts through RQE rose liner and door in top and bottom holes.
- 7.5.6 Tighten RQE rose liner on door with through-bolts.
- 7.5.7 Connect RQE connector.
- 7.4.8 Reinstall components as follows:
 - Inside rose and rose liner (page 47)
 - Levers (page 46)

7.6 Replacing button assembly

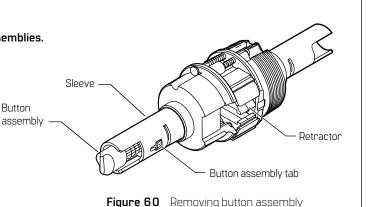
Fig. 60 , Fig. 61, Fig. 62

To remove button assembly: NOTE: These instructions apply for all types of button assemblies.

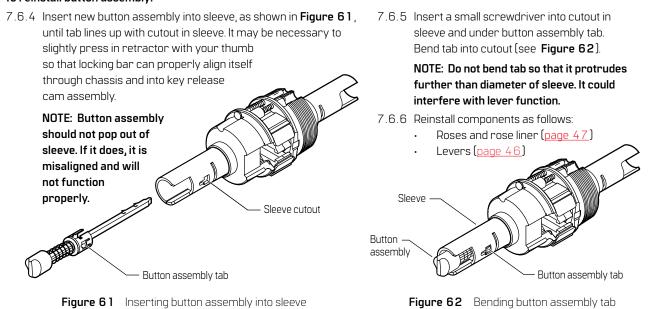
- 7.6.1 Remove components as follows:
 - Levers (page 46)
 - Rose and rose liner (page 47 or page 48)
- 7.6.2 Use a flat-blade screwdriver to press down on button assembly tab, which is visible through cutout in sleeve. Tab should now lie flat.

NOTE: When performing step 7.6.2, position lock on a flat surface so retractor faces upward.

7.6.3 Press down on retractor and slide button assembly out of sleeve.



To reinstall button assembly:

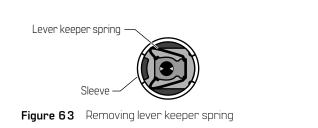


7.7 Replacing lever keeper spring

Fig. 63 , Fig. 64, Fig. 65

To remove lever keeper spring:

- 7.7.1 Remove components as follows:
 - Levers (page 46)
 - Rose and rose liner (page 47 or page 48)
 - Button assembly, if applicable (page 49)
- 7.7.2 Using a pair of needle-nosed pliers, reach into sleeve and remove lever keeper spring (see **Figure 63**).



7.7.4 Use a pair of needle-nosed pliers to insert lever keeper spring into sleeve. Using pliers, work spring into position so spring is gripping lever keeper (see **Figure 65**).

NOTE: If lever keeper spring is not installed correctly, lever may fall off of chassis.

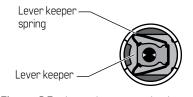
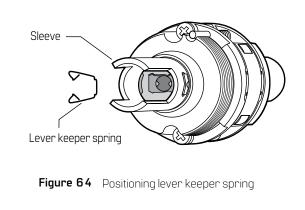


Figure 65 Lever keeper spring in position

- 7.7.5 Reinstall components as follows:
 - Button assembly, if applicable (<u>page 49</u>)
 - Roses and rose liners (page 47 or page 48)
 - Levers (page 46)







7.8 Lubricating cores

Do not lubricate cores with oil. Use of oil will attract dirt.

For powdered graphite lubrication:

- 7.8.1 Dip a key in graphite. Insert key into keyhole and remove it; repeat several times. **OR** Spray graphite into keyhole. Insert key into keyhole and remove it; repeat several times.
- 7.8.2 Allow graphite to sift into pin segment holes.

For silicone type lubrication:

7.8.3 Clean all existing lubricant out of core.

Do not mix graphite with a silicone-type lubricant.

7.8.4 With core inverted, spray lubricant into key opening allowing spray to penetrate pin segment holes.
 NOTE: When cores are installed and exposed to harsh weather conditions, silicone-type lubricants can help displace moisture as well as spread into pin segment holes and other surfaces.

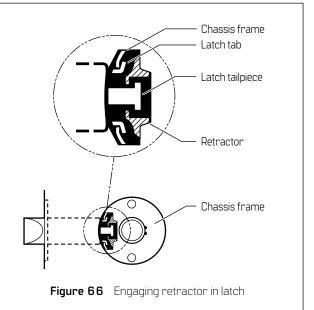
7.9 Aligning chassis and trim

Fig. 6 6

Establish a schedule to inspect locks, doors, and door hardware for proper alignment and operation. Occasionally a lock chassis and/or rose trim may become lose and require tightening.

To retighten a loose or misaligned chassis or rose trim:

- 7.9.1 Remove inside trim.
- 7.9.2 Align chassis with latch. Ensure latch tabs engage chassis frame and latch tailpiece engages retractor [see **Figure 6 6**].
- 7.9.3 Tighten chassis screws.
- 7.9.4 Test lever operation to ensure latch tailpiece does not bind with chassis retractor.
- 7.9.5 Reinstall inside trim. See page 4.6 for instructions.



8 Cam positioning instructions

8.1 Positioning cam for C function locks positioning instructions

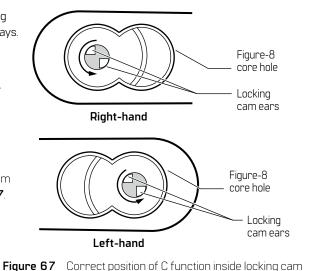
Fig. 67

Vibration during shipment of C function locks may cause inside locking cam to rotate out of position. You might notice this problem in these ways.

- Inside key does not rotate a full 360° and outside key does not rotate full 135°. Remove inside core and throw member. Perform steps below to reposition inside locking cam.
- Before you install core and throw member, you can see inside locking cam is not positioned as shown in Figure 67. Perform these steps to reposition inside locking cam.

To reposition locking cam

- 8.1.3 Looking into figure-8 core hole in inside lever, turn locking cam ears counterclockwise to match position shown in **Figure 67**.
- 8.1.4 Install core and throw member.
- 8.1.5 Check operation of levers while door is open. Outside lever is locked by rotating inside key 360° counterclockwise and unlocked by rotating inside key 360° clockwise.



8.2 Positioning cam for G and IN function locks

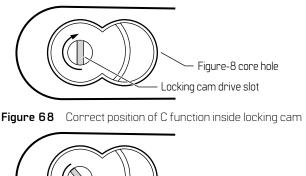
Fig. 68, Fig. 69

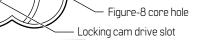
Vibration during shipment of G and IN function locks may cause inside locking cam to rotate out of position. You might notice this problem in these ways.

- With levers in locked position, both inside and outside keys do not rotate one full turn in both directions.
 Remove both cores and throw members, and perform following steps to reposition locking cam.
- Before you install core and throw member, you can see locking cam is not positioned as shown in **Figure 68**. Perform following steps to reposition locking cam.

To reposition locking cam

- 8.2.1 Looking through figure-8 core hole in either lever, turn locking cam drive slot to match position shown in **Figure 68.**
- 8.2.2 Looking into figure-8 core hole in other lever, turn locking cam drive slot counterclockwise until it stops (see **Figure 69**).
- 8.2.3 Turn drive slot clockwise to match position shown in **Figure 68**.
- 8.2.4 Reinstall lever's core and throw member.
- 8.2.5 Check operation of levers while door is open. Levers are locked by rotating key 1-1/4 turns counterclockwise and unlocked by rotating key 1-1/4 turns clockwise.







8.3 Emergency key instructions for H and HJ function locks

Fig. 7 0

To use emergency key:

- 8.2.1 Remove core and throw member.
- 8.2.2 Insert blade of emergency key into slot (see Figure 70).
- 8.2.3 Turn key and retract latch.

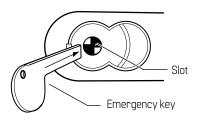


Figure 70 Inserting emergency key

9 Troubleshooting

This table summarizes possible causes for certain lock questions. Causes are listed in order of likelihood. [Most likely cause is first, and so forth.]

You notice	Possible causes include	You should
Lever won't return to its normal position.	Lever return spring is out of position.	Replace chassis.
	Lever return spring is broken.	Replace chassis.
	There is binding between lever and rose.	Ensure lock chassis is centered within door.
Key spins freely, but won't retract latch or unlock door.	Throw member is not installed.	Install throw member.
	6 -pin core is installed with a 7 -pin throw member.	Change core or throw member.
Core doesn't fit into lever core hole.	7 - pin core is installed with a 6 -pin throw member.	Change core or throw member.
	Keyed lever is defective.	Replace keyed lever (<u>page 4 6</u>).
Button doesn't pop out as expected.	Button shaft is damaged or bent.	Replace button assembly (page 49).
Latch doesn't retract.	Latch tailpiece is broken.	Replace latch assembly.
	Latch tailpiece didn't engage retractor correctly during installation.	Reinstall lock chassis (<mark>page 48</mark>).
For a C function lock, inside key does not rotate full 3 6 0°, and outside key does not rotate full 1 3 5°.	Inside locking cam is out of position.	Reposition inside locking cam (<u>page 5.2</u>).
For a G or IN function lock with levers in locked position, key does not rotate one full turn in both directions.	Locking cam is out of position.	Reposition the locking cam (<u>page 5 2</u>).
Cannot remove operating key from an H or HJ function lock.	Key is turned 1 8 0° past correct position.	Push inside button, turn key back clockwise 1 8 0°, and remove key.

10 Installation instructions

All installation instructions and templates for 9K Cylindrical Locks can be found on the Knowledge Base: <u>9K Grade 1 Cylindrical Locks</u>.

For additional product details, downloads, and warranty information, please visit: <u>https://dhwsupport.dormakaba.com/hc/en-us/</u>

For further assistance, please contact dormakaba's technical support team at 1-800-392-5209.