



8K SERIES SERVICE MANUAL

8K SERIES STANDARD AND ELECTRIFIED LOCKS

CREDITS/COPYRIGHT

Copyright @2024 dormakaba USA Inc. All rights reserved.

Information in this document is subject to change without notice and does not represent a commitment on the part of dormakaba USA Inc. The software described in this document are furnished under a license agreement or nondisclosure agreement.

This publication is intended to be an accurate description and set of instructions pertaining to its subject matter. However, as with any publication of this complexity, errors or omissions are possible. Please call dormakaba USA Inc. at (855) 365-2407 if you see any errors or have any questions. No part of this manual and/or databases may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or information storage and retrieval systems, for any purpose, without the express written permission of dormakaba USA Inc.

This document is distributed as is, without warranty of any kind, either express or implied, respecting the contents of this book, including but not limited to implied warranties for the publication's quality, performance, merchantability, or fitness for any particular purpose. Neither dormakaba USA Inc., nor its dealers or distributors shall be liable to the user or any other person or entity with respect to any liability, loss, or damage caused or alleged to be caused directly or indirectly by this publication.

Life Safety Code is a registered trademark of the National Fire Protection Association.

Written and designed at dormakaba Americas Headquarters 6161 East 75th Street Indianapolis, IN 46250

T56081_E October 2024

CONTENTS

GETTING STARTED 1–1
Introduction 1–1

Certifications and standards 1–1

FIGURES VII

8K Series Locks 1–1 Electrified Locks 1–1 Accessories 1–2 Documentation package 1–2 Technical support 1–3 Support services 1–3 Telephone technical support 1–3 FUNCTIONS AND PARTS LISTS 2-1 Function descriptions 2–2 Single-keyed functions 2–3 Double-keyed functions 2–5 Non-keyed functions 2–6 Special applications 2–7 Electrified functions 2–10 Functions by ANSI designation 2–10 Standard functions 2–11 AB function chassis—entrance lock (ANSI F109) 2–11 C function chassis—apartment lock (ANSI F88) 2–12 D function chassis—storeroom lock (ANSI F86) 2–13 E function chassis—service station lock (ANSI F92) 2–14 G function chassis—storeroom lock (ANSI F91) 2–15 H function chassis—hotel guest room lock with indicator (ANSI F93) 2-16

```
HJ function chassis—hotel guest room lock without indicator 2–16
    L function chassis—privacy lock (ANSI F76) 2–17
    N function chassis—passage lock (ANSI F75) 2–18
    NX function—exit lock (ANSI F89) 2–19
    P function chassis—patio lock (ANSI F77) 2–20
    R function chassis—classroom lock (ANSI F84) 2–21
    S function chassis—communicating lock (ANSI F80) 2–22
    T function chassis—dormitory lock (ANSI F90) 2–23
    W function chassis—utility or institutional lock (ANSI F87) 2–24
    Y function chassis—exit lock 2–25
Non-standard functions 2–26
    A function chassis—entrance lock (ANSI F81) 2–26
    B function chassis—office lock (ANSI F82) 2–27
    DR function chassis—special lock 2–28
    DZ function chassis—closet or storeroom lock 2-29
    EA function chassis—entrance or office lock 2–30
    LL function chassis—hospital privacy lock 2–31
    M function chassis—communicating lock (ANSI F78) 2–32
    O function chassis—exit lock (ANSI F83) 2–33
    RD function chassis—special lock 2-34
    RH function chassis—special lock 2–35
    RZ function chassis—closet or storeroom lock 2–36
    XD function chassis—special lock 2–37
    XR function chassis—special lock 2–38
    YD function chassis—exit lock 2–39
    YR function chassis—special lock 2-40
    Z function chassis—closet lock 2-41
Electrified functions
     DEL function chassis—electrically locked fail safe 2-42
      DEU function chassis—electrically unlocked fail secure 2–44
Function conversion 2–46
Trim parts 2-49
    Standard strikes and strike boxes 2–49
    Non-standard strikes 2–49
    Lead-lined parts 2-50
    Roses and rose rings 2–51
     Knobs and components 2–52
    Knob projections from door 2–54
    Dummy trim 2-55
    8W components 2-56
    Latches 2–57
    Installation tools 2–58
```

SERVICE AND MAINTENANCE 3-1

Maintenance tools 3–2 Replacing components 3–3 Replacing the knob 3-3 Replacing the knob driver 3–6 Replacing the inside rose assembly 3–7 Replacing the outside rose assembly 3–8 Replacing the button assembly 3–10 Replacing the knob keeper spring 3–12 Replacing the key release cam assembly 3–13 Replacing the sleeve assembly 3–16 Replacing components for electrified function locks 3–18 Replacing the inside rose and rose liner 3–18 Replacing the outside rose and liner assembly 3–19 Replacing the RQE rose liner 3-21 Replacing the solenoid 3-21 Adding the RQE switch to electrified function locks 3–22 Reversing the solenoid when changing the electrified function 3–22 Lubricating the cores 3–22 Aligning the chassis and trim 3–23 Cam positioning instructions 3–24 Positioning the cam for C function locks 3–24 Positioning the cam for G function locks 3–25 Positioning the cam for R, S, & T function locks 3–26 Emergency key instructions for H and HJ function locks 3–28 Troubleshooting 3-29

INSTALLATION INSTRUCTIONS A-1

INDEX B-1

FIGURES

FUNCTIONS AND PARTS LISTS

Understanding function drawings 2–2

Standard strikes and strike boxes 2-49

Understanding strike lip measurement 2-49

Cross-section of 8K locks showing lead-lined parts 2-50

Standard knob components 2–53

Dummy trim parts 2–55

SERVICE AND MAINTENANCE

Maintenance tools 3–2

Removing the keyed knob 3–3

Removing the plain knob or button knob 3–4

Reinstalling the knob 3–5

Removing the knob driver 3–6

Reinstalling the knob driver 3–7

Removing the inside rose ring with the KD316 spanner wrench 3–7

Reinstalling the inside rose assembly and rose ring 3-8

Removing the outside rose assembly 3–9

Reinstalling the outside rose assembly 3–9

Engaging the retractor in the tailpiece 3–10

Removing the button assembly 3–11

Inserting the button assembly into the sleeve 3–11

Bending the button assembly tab 3–12

Removing the knob keeper spring 3–12

Positioning the knob keeper spring 3–13

Knob return spring in position 3–13

Separating the chassis 3–14

Removing the key release cam assembly 3–14

Reinstalling the key release cam assembly 3–14

Positioning the retractor 3–15

Reinstalling the retractor 3–15

Removing and replacing the sleeve assembly 3–16

Positioning the sleeve 3–17

Removing the inside rose with the KD317 spanner wrench 3–18

Removing the two through-bolts 3–18

Replacing the inside rose and rose liner 3–19

Removing the outside rose and liner assembly 3–20

Replacing the outside rose and liner assembly 3–20

Engaging the retractor in the latch 3–23

Correct position of the C function inside locking cam 3–24

Correct position of the G function locking cam 3–25

Intermediate position of the G function locking cam 3–26

Correct position of the R, S, & T function locking cam 3–27

Inserting the emergency key 3–28

GETTING STARTED

INTRODUCTION

The 8K Series Service Manual contains essential information to help you maintain your 8K Series Lock. This manual addresses standard and electrified 8K Series Locks. Throughout this manual, the term electrified is used to refer to 83KW-93KW DEL, DEU function locks.

CERTIFICATIONS AND STANDARDS

- **8K Series Locks** The locks comply with ANSI A156.2, Series 4000 Grade 1 standards.
 - The locks are listed by Underwriter's Laboratories for use on 3 Hr., A label single swinging doors.
 - The chassis conforms to ANSI All5.2.
 - The 8KS3 strike fits the standard door frame cutout as specified in ANSI A115.2.

Electrified Locks

- The 8KW Locks are UL listed for GYQS electrically controlled single point locks or latches.
- The 8KW Locks are approved by the California State Fire Marshal (CSFM) pursuant to section 13144.1 of the California Health and Safety Code.
- The 8KW 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

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

DOCUMENTATION PACKAGE

The following documentation is available to help you with the installation, start-up, and maintenance of your 8K Series Lock.

The installation and assembly instructions also can be ordered separately:

Document Title	Doc. No.
Installation Instructions for 8K Cylindrical Locks [†]	T56066
8K "C, R, S, & T" Function Cam Positioning Instructions	<i>T56068</i>
8K H & HJ Function Key Instructions	<i>T56070</i>
8K "G" Function Cam Positioning Instructions	T56071
Wiring Instructions for 8K and 9K Series Electrified Cylindrical Locks with RQE [†]	<i>T56090</i>
Door Wiring Instructions for Electrically-Operated Locks	T61926
Installation Instructions for 8K Dummy Trim	T81157

[†] These installation instructions are included in this manual (see *Installation Instructions* on page A-1.

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

Document Title	Doc. No.
K08 Template for Door and Frame Preparation for 63K, 73KC, 83K, 93K Cylindrical Locks with Small (STK) Strike	<i>T56052</i>
K09 Template for Door and Frame Preparation for 63K, 73KC, 83K, 93K Cylindrical Locks with Large (S3) Strike	T56053
K10 Template for Door and Frame Preparation for 64K, 84K, 94K Cylindrical Locks with Small (STK) Strike	T56054
K11 Template for Door and Frame Preparation for 64K, 84K, 94K Cylindrical Locks with Large (S3) Strike	T56055
K12 Template for Door Frame Preparation for 65K, 85K, 95K Cylindrical Locks with Small (STK) Strike	<i>T56056</i>
K13 Template for Door Frame Preparation for 65K, 85K, 95K Cylindrical Locks with Large (S3) Strike	<i>T56057</i>

Document Title	Doc. No.
K18 Template for Installation of 8K/9K Dummy Trim	T56059
K21 Template for Strike Specification for 6K, 8K, 9K Cylindrical Locks	<i>T56060</i>
Template for 3 3/4" & 5" Backset 6K, 8K, 9K Cylindrical Locks with RQE	<i>T56077</i>
Template for 2 3/4" Backset 6K, 7KC, 8K, 9K Cylindrical Locks with RQE	<i>T56091</i>
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
Template for 8K Dummy Trim	T81158

TECHNICAL SUPPORT

Support services

When you have a question about the 8K Series Lock, your first resource for help is the 8K Series Service Manual. If you cannot find a satisfactory answer, contact your local dormakaba representative.

Telephone technical support

A factory-trained Certified Product Specialist (CPS) is available in your area whenever you need help. Before you call, however, please make sure you are where the 8K Series Lock is, and that you are prepared to give the following information:

- What happened and what you were doing when the question arose.
- What you have done so far to answer the question.

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

dormakaba holds training sessions for its customers. The seminars are specifically designed for dormakaba end-users who have a registered a dormakaba [BEST branded product] masterkeyed system and registered a 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 8K 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.

FUNCTION DESCRIPTIONS

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

- single-keyed (page 2–3)
- double-keyed (page 2–5)
- non-keyed (page 2–6)
- special (page 2–7)
- electrified (page 2–10).

For a list of the BEST designation for each ANSI-defined function, see page 2–10.

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

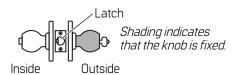


Figure 2.1 Understanding function drawings

Single-keyed functions

The following lists describe how the latchbolt, outside knob, and inside knob operate for each single-keyed 8K function.

AB-Entrance (ANSI F109)

Latchbolt operated by:

- inside knob
- outside key
- outside knob when the inside button is in the unlocked position

Outside knob locked by:

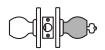
- inside button when pushed in
- inside button when pushed in and rotated clockwise

Outside knob unlocked by:

- inside knob when the inside button is pushed in but not rotated
- outside key when the inside button is pushed in but not rotated
- closing the door when the inside button is pushed in but not rotated

Inside knob is always unlocked

D-Storeroom (ANSI F86)



Latchbolt operated by:

- inside knob
- outside key

Outside knob is always fixed Inside knob is always unlocked

E-Service station (ANSI F92)



Latchbolt operated by:

inside knoboutside key

position

outside knob when the inside button is in the unlocked

Outside knob locked by:

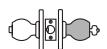
- inside slotted button
- inside slotted button when pushed in and rotated clockwise

Outside knob unlocked by:

- inside knob
- inside slotted button when rotated counterclockwise
- outside key
- closing the door when the inside button is pushed in but not rotated

Inside knob is always unlocked

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



Latchbolt operated by:

- inside knob
- outside key when the inside button is in the unlocked position
- special emergency key after the core is removed with the control key

Outside knob is always fixed Key block feature released by:

- inside knob
- closing the door

Inside knob is always unlocked

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

R-Classroom (ANSI F84)



Latchbolt operated by:

- inside knob
- outside key
- outside knob when not locked

Outside knob locked by:

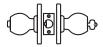
■ outside key

Outside knob unlocked by:

■ outside key

Inside knob is always unlocked

T-Dormitory (ANSI F90)



Latchbolt operated by:

- inside knob
- outside knob when not locked

Outside knob locked by:

- inside button
- outside key

Outside knob unlocked by:

- inside knob when the inside button is pushed in
- outside key
- closing the door when the inside button is pushed in

Inside knob is always unlocked

Double-keyed **functions**

The following lists describe how the latchbolt, outside knob, and inside knob operate for each double-keyed 8K 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.

C-Apartment (ANSI F88)

Latchbolt operated by:



- inside knob
- outside key
- outside knob when not locked

Outside knob locked by:

■ inside key

Outside knob unlocked by:

■ inside key

Inside knob is always unlocked

▲ G-Storeroom (ANSI F91)



Latchbolt operated by:

- inside knob when not locked
- outside knob when not locked

Outside knob locked by:

- inside key
- outside key

Outside knob unlocked by:

- inside key
- outside key

Inside knob locked by:

- inside key
- outside key

Inside knob unlocked by:

- inside key
- outside key

Note: Turning the key in either the inside or outside knob locks or unlocks both sides.



▲ S-Communicating (ANSI F80)

Latchbolt operated by:



- inside key
- inside knob when not locked
- outside key
- outside knob when not locked

Outside knob locked by:

outside key

Outside knob unlocked by:

outside key

Inside knob locked by:

■ inside kev

Inside knob unlocked by:

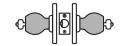
■ inside key

Note: Turning the key in either knob locks or unlocks that knob independently.



▲ W-Institutional (ANSI F87)

Latchbolt operated by:



■ inside key

Outside knob is always fixed Inside knob is always fixed

Non-keyed functions

The following lists describe how the latchbolt, outside knob, and inside knob operate for each non-keyed 8K function.

L-Privacy (ANSI F76)

Latchbolt operated by:

- inside knob
- outside knob when the inside button is in the unlocked position

Outside knob locked by:

■ inside button

Outside knob unlocked by:

- inside knob
- outside slotted button when pushed in and rotated counterclockwise
- closing the door

Inside knob is always unlocked

N-Passage (ANSI F75)



Latchbolt operated by:

- inside knob
- outside knob

Outside knob is always unlocked Inside knob is always unlocked

NX-Exit (ANSI F89)



Latchbolt operated by:

■ inside knob

Outside knob is always fixed Inside knob is always unlocked

P-Patio (ANSI F77)



Latchbolt operated by:

- inside knob
- outside knob when the inside button is in the unlocked position

Outside knob locked by:

■ inside button

Outside knob unlocked by:

- inside knob
- closing the door

Inside knob is always unlocked

Y-Exit



Latchbolt operated by:

■ inside knob

Inside knob is always unlocked

1DT-Single dummy trim



This assembly is a single, surface mounted knob for an inactive door or a non-latching door.
Single dummy trim can be installed on the inside or outside of the door.

2DT-Double dummy trim



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

Special applications

The following lists describe how the latchbolt, outside knob, and inside knob operate for each double-keyed 8K 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.

A-Dormitory or storeroom lock (ANSI F81)

Latchbolt operated by:



- inside knob
- outside key
- outside knob when the inside button is in the unlocked position

Outside knob locked by:

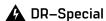
■ inside button

Outside knob unlocked by:

■ inside button

Inside knob is always unlocked

Note: Inside button must be rotated counterclockwise to unlock the outside knob.





Latchbolt operated by:

- inside key
- inside knob when not locked
- outside key

Outside knob is always fixed Inside knob locked by:

■ inside key

Inside knob unlocked by:

■ inside key

B-Office (ANSI F82)

Latchbolt operated by:

- inside knob
- outside kev
- outside knob when the inside button is in the unlocked position

Outside knob locked by:

■ inside button

Outside knob unlocked by:

- inside knob
- outside key

Inside knob is always unlocked

Note: Inside button is released by turning the key in the outside knob or rotating the inside knob. Closing the door does not release the inside button.

DZ-Closet or storeroom



Latchbolt operated by:

- inside turn knob
- outside kev

Outside knob is always fixed Inside turn knob is always unlocked

EA-Entrance or Office



Latchbolt operated by:

- inside knob
- outside key
- outside knob when the inside button is in the unlocked position

Outside knob locked by:

- inside button
- inside button when pushed in and rotated clockwise

Outside knob unlocked by:

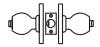
- inside knob
- inside button when rotated counterclockwise
- outside key

Inside knob is always unlocked

Note: Turning the slotted button keeps the outside knob locked until the button is turned back.



M-Communicating (ANSI F78)



Latchbolt operated by:

- inside knob when not locked
- outside knob when not locked

Outside knob locked by:

■ inside button

Outside knob unlocked by:

■ inside button

Inside knob locked by:

outside button

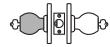
Inside knob unlocked by:

outside button

Note: Do not use this function for rooms that have no other entrance.



A RD-Special



Latchbolt operated by:

- inside key
- outside key
- outside knob when not locked

Outside knob locked by:

outside key

Outside knob unlocked by:

outside key

Inside knob is always fixed

LL-Hospital privacy



Latchbolt operated by:

- inside knob
- outside knob when not locked

Outside knob locked by:

- inside button when pushed in Outside knob unlocked by:
- inside knob
- outside button when pushed in and rotated counterclockwise
- closing the door

Inside knob is always unlocked

Q-Exit (ANSI F83)



Latchbolt operated by:

- inside knob
- outside knob when not locked

Outside knob locked by:

■ inside button

Outside knob unlocked by:

■ inside button

Inside knob is always unlocked

RH-Special



Latchbolt operated by:

- inside knob when latchbolt not locked in retracted position
- outside knob when not locked

Latchbolt held retracted by:

■ locking outside knob when latchbolt in retracted position

Outside knob locked by:

outside key

Outside knob unlocked by:

outside key

Inside knob is always unlocked

RZ-Closet or storeroom



Latchbolt operated by:

- inside turn knob
- outside key
- outside knob when not locked

Outside knob locked by:

■ outside key

Outside knob unlocked by:

■ outside key

Inside turn knob is always unlocked



A XR-Special

Latchbolt operated by:



- inside key
- inside knob when not locked

Outside knob is always fixed Inside knob locked by:

■ inside key

Inside knob unlocked by:

■ inside key

A YR-Special



Latchbolt operated by:

- inside key
- inside knob when not locked

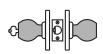
Inside knob locked by:

■ inside key

Inside knob unlocked by:

■ inside key

A XD-Special



Latchbolt operated by:

■ inside key

Outside knob is always fixed Inside knob is always fixed

⚠ YD−Exit



Latchbolt operated by:

■ inside key

Inside knob is always fixed

Z-Closet latch



Latchbolt operated by:

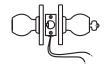
- inside turn knob
- outside knob

Outside knob is always unlocked Inside turn blade is always unlocked

Electrified functions

The following lists describe how the latchbolt, outside knob, and inside knob operate for each 8K electrified function.

DEL-Electrically Locked-Fail Safe



Latchbolt operated by:

- inside knob
- outside knob when electric power is removed from the solenoid
- outside key

Outside knob locked by:

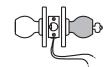
 applying 24 VDC to the solenoid; remains locked only while power continues to be applied

Outside knob unlocked by:

removing 24 VDC from the solenoid

Inside knob is always unlocked

DEU-Electrically Unlocked-Fail Secure



Latchbolt operated by:

- inside knob
- outside knob when electric power is applied to the solenoid
- outside key

Outside knob locked by:

■ removing 24 VDC from the solenoid

Outside knob unlocked by:

 applying 24 VDC to the solenoid; remains unlocked only while power continues to be applied

Inside knob is always unlocked

Functions by ANSI designation

ANSI no.	Function
F75	N
F76	L
F77	Р
F78	M
F80	S
F81	А
F82	В
F83	Q
F84	R
F86	D
F87	W
F88	С
F89	NX
F90	T
F91	G
F92	Е
F93	Н
F109	AB

AΒ

STANDARD FUNCTIONS AB FUNCTION CHASSIS—ENTRANCE LOCK (ANSI F109)

ltem	Part No	Ωtv	Description	
1	B54742	1	Turn button assembly [†]	
2	B54810	1	Inside hub and plate assembly	
3	B54187	2	Clamp stud	
4	B54806	1	Non-keyed knob sleeve assembly	9 🔨
5	B54172	1	Chassis cover	
6	B54822	1	Retractor assembly with long catchplate	
7	A54860	1	Key release cam assembly	
8	A54807	1	Keyed sleeve assembly	i
9	B54185	1	Standard knob driver <i>or</i>	
not shown	A54856	1	Break-away knob driver	
10	B54801	1	Outside hub and plate assembly	10
11	B54163	2	Chassis screw	
† Specify fi	inish.			Outside 8
† Specify fi	inish.			8

C FUNCTION CHASSIS—APARTMENT LOCK (ANSI F88)

ltem	Part No.	Qty.	. Description	
1	A54810	1	Inside hub and plate assembly	
2	B54187	2	Clamp stud	
3	B54807	2	Keyed sleeve assembly	
4	B54185	2	Standard knob driver or	
not shown	A54856	2	Break-away knob driver	
5	A54863	1	Key release cam assembly	4
6	B54172	1	Chassis cover	
7	A54190	1	Locking bar	
8	B54820	1	Retractor assembly without catchplate	
9	A54860	1	Key release cam assembly	
10	B54801	1	Outside hub and plate assembly	7
11	B54163	2	Chassis screw	
			3	9 6 5
	Ins	side	2	c c

Figure 2.3 C function exploded diagram

D FUNCTION CHASSIS—STOREROOM LOCK (ANSI F86)

Item	Part No.	Qty.	Description		
1	A54810	1	Inside hub and plate assembly	•	
2	B54187	2	Clamp stud		
3	B54806	1	Non-keyed sleeve assembly		
4	B54172	1	Chassis cover		
5	B54820	1	Retractor assembly without catchplate		
6	A54861	1	Key release cam assembly	7_	
7	B54185	1	Standard knob driver or		w .
not shown	A54856	1	Break-away knob driver		
8	B54807	1	Keyed sleeve assembly		
9	B54801	1	Outside hub and plate assembly	į \	
10	B54163	2	Chassis screw		10
			3	5	Outside

Inside



E FUNCTION CHASSIS—SERVICE STATION LOCK (ANSI F92)

ltem	Part No.	Qty.	Description		
1	B54748	1	Slotted button assembly [†]		
2	A54810	1	Inside hub and plate assembly		
3	B54187	2	Clamp stud		
4	B54806	1	Non-keyed sleeve assembly	8.	
5	B54172	1	Chassis cover	•	CIMINIMA
6	B54822	1	Retractor assembly with long catchplate		
7	A54860	1	Key release cam assembly		
8	B54185	1	Standard knob driver <i>or</i>		OMETI MANAGEMENT
not shown	A54856	1	Break-away knob driver		
9	B54807	1	Keyed sleeve assembly		\ 11
10	B54801	1	Outside hub and plate assembly	(*)	
11	B54163	2	Chassis screw		\10
				6 5	
			1		

Figure 2.5 E function exploded diagram

G FUNCTION CHASSIS—STOREROOM LOCK (ANSI F91)

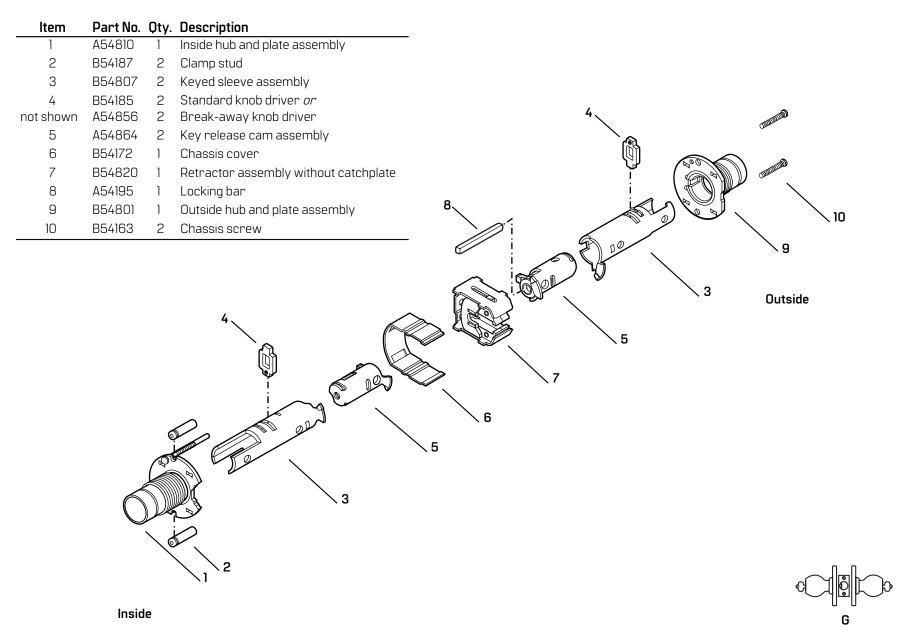


Figure 2.6 G function exploded diagram

H FUNCTION CHASSIS—HOTEL GUEST ROOM LOCK WITH INDICATOR (ANSI F93) HJ FUNCTION CHASSIS—HOTEL GUEST ROOM LOCK WITHOUT INDICATOR

1	D . N	٥.	B	
<u>ltem^T</u>		Uty.	Description	
1	B54744	1	Push button assembly [‡]	
2	B54810	1	Inside hub and plate assembly	
3	B54187	2	Clamp stud	
4	B54806	1	Non-keyed sleeve assembly	
5	B54172	1	Chassis cover	
6	B54822	1	Retractor assembly with long catchplate	
7	A54865	1	Key release cam assembly	A
8	B54832	1	Keyed sleeve and hub assembly	
9	B54163	2	Chassis screw	
‡ Sp	ecify finish.			8 Outside
	Inside	9	1	н'нา

Figure 2.7 H/HJ function exploded diagram

L FUNCTION CHASSIS—PRIVACY LOCK (ANSI F76)

ltem		Qty.	Description		
1	B54744	1	Push button assembly [†]		
2	A54810	1	Inside hub and plate assembly	10 <	
3	B54187	2	Clamp stud		\mathcal{D}
4	B54806	1	Non-keyed sleeve assembly		
5	B54172	1	Chassis cover		
6	B54822	1	Retractor assembly with long catchplate		
7	A54860	1	Key release cam assembly		
8	B54808	1	Non-keyed sleeve assembly	\$ 00 MY.	
9	B54801	1	Outside hub and plate assembly		
10	A54745	1	Button release assembly [†]		
11	A54163	2	Chassis screw		\ 11
† Sp	ecify finish.			Do Do	9 Outside
	Insid	le	2 3		

Figure 2.8 L function exploded diagram

N FUNCTION CHASSIS—PASSAGE LOCK (ANSI F75)

ltem	Part No.	Qty.	Description		
1	A54810	1	Inside hub and plate assembly		
2	B54187	2	Clamp stud		
3	B54806	2	Non-keyed sleeve assembly		
4	B54172	1	Chassis cover		
5	B54820	1	Retractor assembly without catchplate		d de la constante de la consta
6	B54801	1	Outside hub and plate assembly		
7	B54163	2	Chassis screw		Second Supplied
					7
				a Die	6
					Outside 3
					3
				_	
				5	
				\4	
				3	
			2		



Inside

NX FUNCTION—EXIT LOCK (ANSI F89)

1 B54749 1 Locking bar assembly for NX function [†] 2 B54810 1 Inside hub and plate assembly 3 B54187 2 Clamp stud 4 B548606 1 Non-keyed sleeve assembly 5 B54172 1 Chassis cover 6 B54820 1 Retractor assembly without catchplate 7 A54867 1 Key release cam assembly 8 B54808 1 Non-keyed sleeve assembly 9 B54801 1 Outside hub and plate assembly 10 B54163 2 Chassis screw † Specify finish. Outside Outside	ltem	Part No.	Ωtv.	Description	
9 B5480 1 Inside hub and plate assembly 8 B5487 2 Clamp stud 4 B54806 1 Non-keyed sleeve assembly 5 B54872 1 Chassis cover 6 B54820 1 Retractor assembly without catchplate 7 A54867 1 Key release cam assembly 8 B54808 1 Non-keyed sleeve assembly 9 B54801 1 Outside hub and plate assembly 10 B5483 2 Chassis screw † Specify finish. Outside Outside	1		1		
3 B5487 2 Clamp stud 4 B54806 1 Non-keyed sleeve assembly 5 B54172 1 Chassis cover 6 B54820 1 Retractor assembly without catchplate 7 A54867 1 Key release cam assembly 8 B54808 1 Non-keyed sleeve assembly 9 B54801 1 Outside hub and plate assembly 10 B54163 2 Chassis screw † Specify finish. Outside Outside Outside	2	B54810	1		
4 B54806 1 Non-keyed sleeve assembly 5 B54172 1 Chassis cover 6 B54820 1 Retractor assembly without catchplate 7 A54867 1 Key release cam assembly 8 B54808 1 Non-keyed sleeve assembly 9 B54801 1 Outside hub and plate assembly 10 B54163 2 Chassis screw † Specify finish. Outside Outside Outside Outside	3	B54187	2		
5 B54172 1 Chassis cover 6 B54820 1 Retractor assembly without catchplate 7 A54867 1 Key release cam assembly 8 B54801 1 Non-keyed sleeve assembly 9 B54163 2 Chassis screw † Specify finish. Dutside hub and plate assembly 9 Outside hub and plate assembly 10 B54163 2 Chassis screw † Specify finish.	4	B54806	1		
6 B54820 1 Retractor assembly without catchplate 7 A54867 1 Key release cam assembly 8 B54808 1 Non-keyed sleeve assembly 9 B54801 1 Outside hub and plate assembly 10 B54163 2 Chassis screw † Specify finish. Outside Outside	5	B54172	1		Opposition of the contract of
7 A54867 1 Key release cam assembly 8 B54808 1 Non-keyed sleeve assembly 9 B54801 1 Outside hub and plate assembly 10 B54163 2 Chassis screw † Specify finish. 9 Outside					
8 B54808 1 Non-keyed sleeve assembly 9 B54801 1 Outside hub and plate assembly 10 B54163 2 Chassis screw † Specify finish. 9 B04801 1 Outside hub and plate assembly 9 Outside hub and plate assembly 10 Dutside hub and plate assembly 11 Dutside hub and plate assembly 12 Dutside hub and plate assembly 12 Dutside hub and plate assembly 13 Dutside hub and plate assembly 14 Dutside hub and plate assembly 15 Dutside					E O O
9 B54801 1 Outside hub and plate assembly 10 B54163 2 Chassis screw † Specify finish. Outside Outside Outside			1		
10 B54163 2 Chassis screw † Specify finish. Outside			1		
f Specify finish. Outside					
					5

Figure 2.10 NX function exploded diagram

P FUNCTION CHASSIS—PATIO LOCK (ANSI F77)

		_		
		Oty.	Description	
1	B54744	-	Push button assembly [†]	
2	A54810	1	Inside hub and plate assembly	
3	B54187	2	Clamp stud	
4	B54806	1	Non-keyed sleeve assembly	
5	B54172	1	Chassis cover	
6	B54822	1	Retractor assembly with long catchplate	
7	A54867	1	Key release cam assembly	
8	B54808	1	Non-keyed sleeve assembly	
9	B54801	1	Outside hub and plate assembly	10
10	B54163	2	Chassis screw	
† Sp	ecify finish.			9
				8 Outside
				7
				6
				OLU TO THE TOTAL
				5
				4
		6		
			2 3	
	O	<i>y</i>		
			\1	пп
	Insid	le		
				Р

Figure 2.11 P function exploded diagram

2-21

R FUNCTION CHASSIS—CLASSROOM LOCK (ANSI F84)

ltem		Qty.	Description	
1	B54810	1	Inside hub and plate assembly	
2	B54187	2	Clamp stud	
3	B54806	1	Non-keyed sleeve assembly	
4	B54172	1	Chassis cover	
5	B54820	1	Retractor assembly without catchplate	7 \
6	A54862	1	Key release cam assembly	d de la company
7	B54185	1	Standard knob driver <i>or</i>	
not shown		1	Break-away knob driver	The state of the s
8	B54807	1	Keyed sleeve assembly	
9	B54801	1	Outside hub and plate assembly	
10	B54163	2	Chassis screw	10
			3	8 Outside
		Insid	de	



Figure 2.12 R function exploded diagram

S FUNCTION CHASSIS—COMMUNICATING LOCK (ANSI F80)

ltem	Part No.	Qty.	Description				
1	B54810	1	Inside hub and plate assembly	•			
2	B54187	2	Clamp stud				
3	B54807	2	Keyed sleeve assembly				
4	B54185	2	Standard knob driver <i>or</i>		4		
not shown	A54856		Break-away knob driver				COMMITTION
5	A54862	2	Key release cam assembly		`@		
6	B54172	1	Chassis cover			600	
7	B54820	1	Retractor assembly without catchplate		Ĭ		
8	B54801	1	Outside hub and plate assembly		!		
9	B54163	2	Chassis screw				9
			3	6 5	5	3	Outside
	Insid	le					

T FUNCTION CHASSIS—DORMITORY LOCK (ANSI F90)

1	Part No.	Qty.	Description	
Į	B54744	1	Push button assembly [†]	
2	B54810	1	Inside hub and plate assembly	
3	B54187	2	Clamp stud	8 、
4	B54806	1	Non-keyed sleeve assembly	damanan
5	B54172	1	Chassis cover	
6	B54822	1	Retractor assembly with long catchplate	
7	A54862	1	Key release cam assembly	
8	B54185	1	Standard knob driver <i>or</i>	
not shown	A54856	1	Break-away knob driver	
9	B54807	1	Keyed sleeve assembly	
10	B54801	1	Outside hub and plate assembly	10
11	B54163	2	Chassis screw	
			2 3	5

Figure 2.14 T function exploded diagram

W

W FUNCTION CHASSIS—UTILITY OR INSTITUTIONAL LOCK (ANSI F87)

ltem	Part No.	Qty.	Description		
1	B54810	1	Inside hub and plate assembly		
2	B54187	2	Clamp stud		
3	B54807	2	Keyed sleeve assembly		
4	B54185	2	Standard knob driver or	4.	
not shown	A54856	2	Break-away knob driver		OMM
5	A54861	2	Key release cam assembly		
6	B54172	1	Chassis cover		TO TO TO THE PARTY OF THE PARTY
7	B54820	1	Retractor assembly without catchplate		
8	B54801	1	Outside hub and plate assembly		
9	B54163	2	Chassis screw		\ \ \ \ 9
			3	7 6 5	Outside
			2		

Y FUNCTION CHASSIS—EXIT LOCK

ltem	Part No.	Qty.	Description							
1	B54810	1	Inside hub and plate assembly							
2	B54187	2	Clamp stud							
3	B54806	1	Non-keyed sleeve assembly							
4	B54172	1	Chassis cover							
5	B54820	1	Retractor assembly without catchplate							
6	B54809	1	Outside hub and plate assembly							
7	B54163	2	Chassis screw							
8	A54717	1	Outside convex rose for Y function [†]							
	pecify finish		utside rose available for this function.	Outside 3						
			Inside							



Figure 2.16 Y function exploded diagram

Non-standard functions A function chassis—entrance lock (ANSI F81)

ltem	Part No.	Qty	. Description	
1	B54742	1	Turn button assembly [†]	
2	B54810	1	Inside hub and plate assembly	
3	B54187	2	Clamp stud	8、
4	B54806	1	Non-keyed sleeve assembly	
5	B54172	1	Chassis cover	
6	B54820	1	Retractor assembly without catchplate	
7	A54860	1	Key release cam assembly	
8	B54185	1	Standard knob driver <i>or</i>	
not shown	A54856	1	Break-away knob driver	
9	B54807	1	Keyed sleeve assembly	
10	B54801	1	Outside hub and plate assembly	10
11	B54163	2	Chassis screw	
† Specify fil	nish.			g Outside
† Specify fil	nish.			7

B FUNCTION CHASSIS—OFFICE LOCK (ANSI F82)

Item		Qty.	Description	
1	B54744	1	Push button assembly [†]	
2	B54810	1	Inside hub and plate assembly	
3	B54187	2	Clamp stud	8
4	B54806	1	Non-keyed sleeve assembly	
5	B54172	1	Chassis cover	· A
6	B54821	1	Retractor assembly with short catchplate	
7	A54860	1	Key release cam assembly	
8	B54185	1	Standard knob driver <i>or</i>	į ()
not shown	A54856	1	Break-away knob driver	
9	B54807	1	Keyed sleeve assembly	
10	B54801	1	Outside hub and plate assembly	10
11	B54163	2	Chassis screw	
				6 5
	Inside			₽ R

Figure 2.18 B function exploded diagram

DR FUNCTION CHASSIS—SPECIAL LOCK

ltem	Part No.	Qty.	Description				
1	B54810	1	Inside hub and plate assembly				
2	B54187	2	Clamp stud				
3	B54807	2	Keyed sleeve assembly				
4	B54185	2	Standard knob driver or				
not shown	A54856	2	Break-away knob driver				
5	A54862	1	Key release cam assembly		4		
6	B54172	1	Chassis cover		'\		OMMU
7	B54820	1	Retractor assembly without catchplate			~ ~	
8	A54861	1	Key release cam assembly			800	
9	B54801	1	Outside hub and plate assembly		i		
10	B54163	2	Chassis screw		ja		10
	6		3	7	8	3	Outside
	Inside		\1 ⁻				O DR

DZ FUNCTION CHASSIS—CLOSET OR STOREROOM LOCK

ltem	Part No.	Qty.	Description		
1	A54736	1	Turn blade assembly for "Z" function [†]		
2	B54810	1	Inside hub and plate assembly		
3	B54187	2	Clamp stud		
4	A54835	1	Non-keyed sleeve assembly		
5	B54172	1	Chassis cover	8、	
6	B54820	1	Retractor assembly without catchplate		OMILE.
7	A54861	1	Key release cam assembly		
8	B54185	1	Standard knob driver <i>or</i>		
not shown	A54856	1	Break-away knob driver		
9	B54807	1	Keyed sleeve assembly		, , ,
10	B54801	1	Outside hub and plate assembly		\11
11	B54163	2	Chassis screw	\$ 10/	10
			O O O O O O O O O O O O O O O O O O O	6	
			3		

Figure 2.20 DZ function exploded diagram

EA FUNCTION CHASSIS—ENTRANCE OR OFFICE LOCK

ltem	Part No.	Qty.	Description		
1	B54748	1	Slotted button assembly [†]	_	
2	B54810	1	Inside hub and plate assembly		
3	B54187	2	Clamp stud		
4	B54806	1	Non-keyed sleeve assembly	8、	
5	B54172	1	Chassis cover		Comming
6	B54821	1	Retractor assembly with short catchplate		
7	A54860	1	Key release cam assembly		
8	B54185	1	Standard knob driver <i>or</i>		OMBINE.
not shown	A54856	1	Break-away knob driver		
9	B54807	1	Keyed sleeve assembly		\11
10	B54801	1	Outside hub and plate assembly		
11	B54163	2	Chassis screw		10
			2 3	7 7 6 5 5 4	Outside
I	nside		1		EA

LL FUNCTION CHASSIS—HOSPITAL PRIVACY LOCK

ltem	Part No.	Qty.	Description	
1	B54744	1	Push button assembly [†]	-
2	B54810	1	Inside hub and plate assembly	11 ,
3	B54187	2	Clamp stud	
4	B54806	1	Non-keyed sleeve assembly	
5	B54172	1	Chassis cover	
6	B54822	1	Retractor assembly with long catchplate	8
7	A54860	1	Key release cam assembly	The state of the s
8	B54185	1	Standard knob driver <i>or</i>	
not shown	A54856	1	Break-away knob driver	
9	B54807	1	Keyed sleeve assembly	
10	B54801	1	Outside hub and plate assembly	
11	B54742	1	Turn button assembly [†]	12
12	B54163	2	Chassis screw	- 10
			OF THE STATE OF TH	5
0			2 3	

Figure 2.22 LL function exploded diagram

M FUNCTION CHASSIS—COMMUNICATING LOCK (ANSI F78)

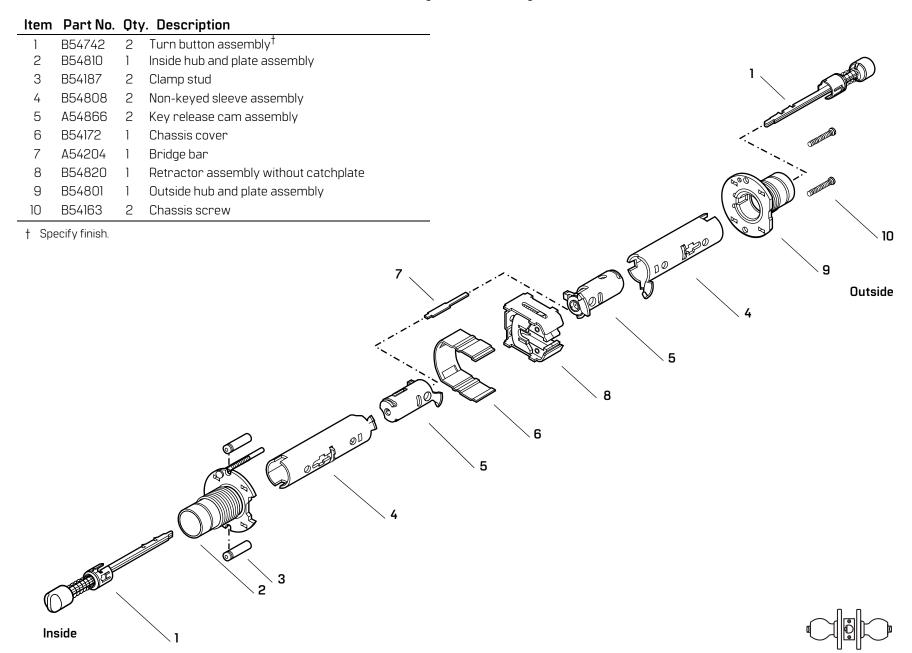


Figure 2.23 M function exploded diagram

Q FUNCTION CHASSIS—EXIT LOCK (ANSI F83)

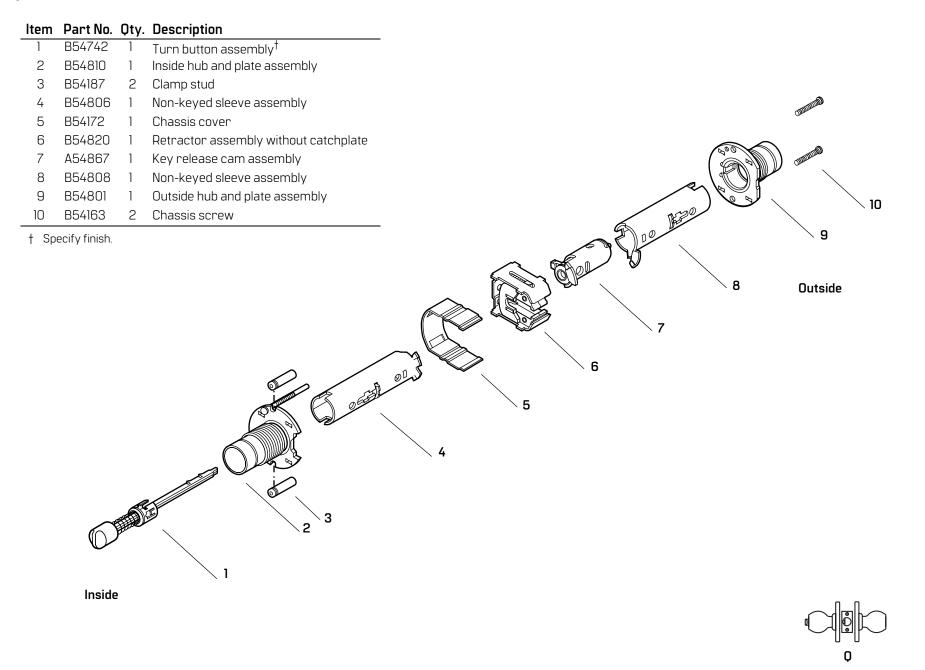


Figure 2.24 O function exploded diagram

RD

RD FUNCTION CHASSIS—SPECIAL LOCK

ltem	Part No.	Qty.	Description		
1	B54810	1	Inside hub and plate assembly		
2	B54187	2	Clamp stud		
3	B54807	2	Keyed sleeve assembly		
4	A54861	1	Key release cam assembly	5、	
5	B54185	2	Standard knob driver <i>or</i>	TO TO TO THE THE TO THE	
not shown	A54856	2	Break-away knob driver		
6	B54172	1	Chassis cover		
7	B54820	1	Retractor assembly without catchplate		
8	A54862	1	Key release cam assembly		
9	B54801	1	Outside hub and plate assembly		10
10	B54163	2	Chassis screw		9
			5 3 3	8 7 6 8	
	Insid	de			

RH FUNCTION CHASSIS—SPECIAL LOCK

ltem	Part No.	Qty.	Description		
1	B54810	1	Inside hub and plate assembly		
2	B54187	2	Clamp stud		
3	B54806	1	Non-keyed sleeve assembly		
4	B54172	1	Chassis cover		
5	B54820	1	Retractor assembly without catchplate	7、	
6	A54862	1	Key release cam assembly		Chilippine
7	B54185	1	Standard knob driver <i>or</i>	Ì	
not shown	A54856	1	Break-away knob driver	Real Control	
8	B54836	1	Keyed sleeve assembly		
9	B54801	1	Outside hub and plate assembly		
10	B54163	2	Chassis screw		
			3	5	
	1	Inside	\ I		

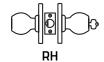


Figure 2.26 RH function exploded diagram

RZ FUNCTION CHASSIS—CLOSET OR STOREROOM LOCK

ltem	Part No.	Qty.	Description		
1	A54736]	Turn blade assembly for Z function [†]	•	
2	B54810	1	Inside hub and plate assembly		
3	B54187	2	Clamp stud		
4	A54835	1	Non-keyed sleeve assembly		
5	B54172	1	Chassis cover	8、	
6	B54820	1	Retractor assembly without catchplate		Oppur Control of the
7	A54862	1	Key release cam assembly		
8	B54185	1	Standard knob driver <i>or</i>		Cao Call
not shown	A54856	1	Break-away knob driver	i	
9	B54807	1	Keyed sleeve assembly	je do se de la companya de la compan	
10	B54801	1	Outside hub and plate assembly) 🕓 🗎
11	B54163	2	Chassis screw	10	10
				7 6 5	
	Ins	ide	\1		

XD FUNCTION CHASSIS—SPECIAL LOCK

ltem	Part No.	Qty.	Description		
1	B54810	1	Inside hub and plate assembly	-	
2	B54187	2	Clamp stud		
3	B54807	1	Keyed sleeve assembly		
4	B54185	1	Standard knob driver or		
not shown	A54856	1	Break-away knob driver		
5	A54861	1	Key release cam assembly		COMPUTE CONTRACTOR OF THE CONT
6	B54172	1	Chassis cover		
7	B54820	1	Retractor assembly without catchplate		Carolina Companie
8	B54808	1	Non-keyed sleeve assembly		
9	B54801	1	Outside hub and plate assembly		
10	B54163	2	Chassis screw		10
		Insid	3	7 5	8 Outside

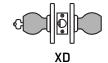


Figure 2.28 XD function exploded diagram

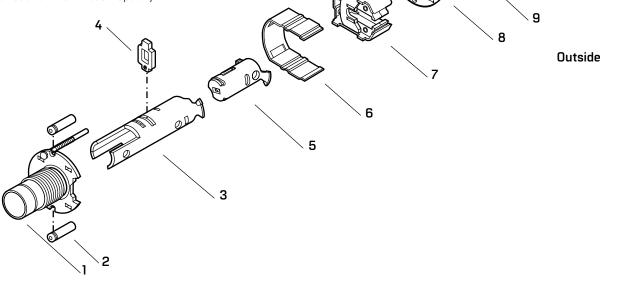
XR FUNCTION CHASSIS—SPECIAL LOCK

ltem	Part No.	Qty.	Description			
1	B54810	1	Inside hub and plate assembly			
2	B54187	2	Clamp stud			
3	B54808	1	Non-keyed sleeve assembly			
4	A54861	1	Key release cam assembly		8、	
5	B54172	1	Chassis cover			COMMON CO
6	B54820	1	Retractor assembly without catchplate		`^	_
7	A54862	1	Key release cam assembly			
8	B54185	1	Standard knob driver <i>or</i>			
not shown	A54856	1	Break-away knob driver			
9	B54807	1	Keyed sleeve assembly			<u> </u>
10	B54801	1	Outside hub and plate assembly			10
11	B54163	2	Chassis screw			\ 10
			3	6 5	7	
	Ins	ide	••			

YD FUNCTION CHASSIS—EXIT LOCK

ltem	Part No.	Qty.	Description								
1	B54810	1	Inside hub and plate assembly								
2	B54187	2	Clamp stud								
3	B54807	1	Keyed sleeve assembly								
4	B54185	1	Standard knob driver <i>or</i>								
not shown	A54856	1	Break-away knob driver								
5	A54861	1	Key release cam assembly								
6	B54172	1	Chassis cover								
7	B54820	1	Retractor assembly without catchplate								
8	B54809	1	Outside hub and plate assembly								
9	B54163	2	Chassis screw								
10	A54717	1	Outside convex rose for Y function [†]								
† A54717 is	the only ava	ailable	† A54717 is the only available outside rose for this function. Specify								

† A54717 is the only available outside rose for this function. Specify finish.



YR FUNCTION CHASSIS—SPECIAL LOCK

ltem	Part No.	Qty.	Description	
1	B54810	1	Inside hub and plate assembly	
2	B54187	2	Clamp stud	
3	B54807	1	Keyed sleeve assembly	
4	B54185	1	Standard knob driver or	
not shown	A54856	1	Break-away knob driver	
5	A54862	1	Key release cam assembly	
6	B54172	1	Chassis cover	
7	B54820	1	Retractor assembly without catchplate	
8	B54809	1	Outside hub and plate assembly	
9	B54163	2	Chassis screw	
10	A54717	1	Outside rose for Y function [†]	
finish.				10 8 Outside 5
			lnside 2	C Y

Figure 2.31 YR function exploded diagram

Z FUNCTION CHASSIS—CLOSET LOCK

Item	Part No.	Qty.	Description	
1	A54736	1	Turn blade assembly for Z function [†]	
2	A54810	1	Inside hub and plate assembly	
3	B54187	2	Clamp stud	
4	A54835	1	Non-keyed sleeve assembly	
5	B54172	1	Chassis cover	
6	B54820	1	Retractor assembly without catchplate	
7	B54806	1	Non-keyed sleeve assembly	
8	B54801	1	Outside hub and plate assembly	
9	B54163	2	Chassis screw	Contraction of the contraction o
th	e turn blade	e asser	nbly. See page 2–51. Specify finish.	7 Outside
			1	ſ

Figure 2.32 Z function exploded diagram

Inside

ELECTRIFIED FUNCTIONS DEL FUNCTION CHASSIS—ELECTRICALLY LOCKED FAIL SAFE

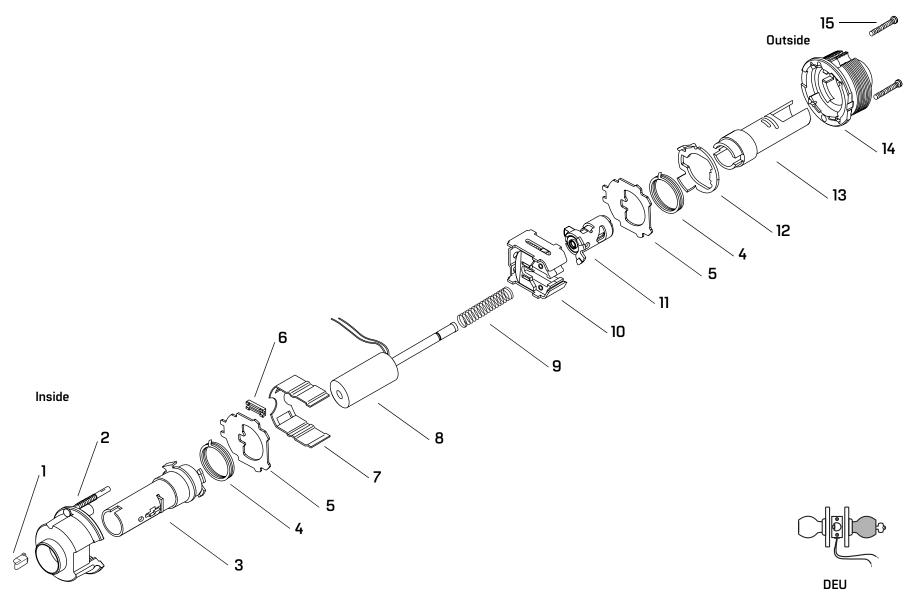


Figure 2.33 DEL function exploded diagram

DEL chassis parts list

Refer to Figure 2.33 and the table below to find the part you need.

ltem	Part no.	Qty.	Description
1	B60207	1	Switch plunger
2	A55685	1	Inside hub assembly <i>or</i>
not shown	C60206	1	Inside hub assembly for RQE
3	B60418	1	Modified drive collar & non-keyed sleeve assembly
4	B60420	2	Knob return spring
5	B55504	2	Thrust plate
6	B60470	1	Wire protector cap
7	B54172	1	Chassis cover
not shown	A60227	1	ID label (affixed to the chassis cover)
8	C60232	1	Solenoid
9	C60224	1	Solenoid spring
10	B60463	1	Chassis frame and retractor assembly
11	A60541	1	Key release cam assembly
12	C55515	1	Spring drive plate
13	A60424	1	Keyed sleeve assembly
14	D55571	1	Outside hub <i>or</i>
not shown	D56003	1	Outside hub, lost motion
15	A55505	2	Chassis screw

DEU FUNCTION CHASSIS—ELECTRICALLY UNLOCKED FAIL SECURE

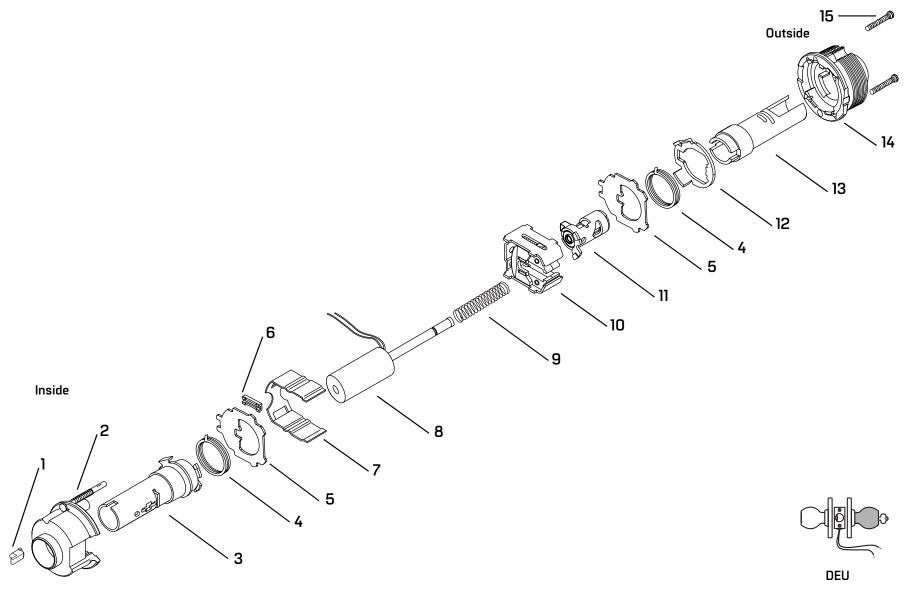


Figure 2.34 DEU function exploded diagram

DEU chassis parts list

Refer to Figure 2.34 and the table below to find the part you need.

ltem	Part no.	Qty.	Description	
]	B60207	1	Switch plunger	
2	A55685	1	Inside hub assembly <i>or</i>	
not shown	C60206	1	Inside hub assembly for RQE	
3	B60418	1	Modified drive collar & non-keyed sleeve assembly	
4	B60420	2	Knob return spring	
5	B55504	2	Thrust plate	
6	B60470	1	Wire protector cap	
7	B54172	1	Chassis cover	
not shown	A60227	1	ID label (affixed to the chassis cover)	
8	C60231	1	Solenoid	
9	C60223	1	Solenoid spring	
10	B60463	1	Chassis frame and retractor assembly	
11	A60531	1	Key release cam assembly	
12	C55515	1	Spring drive plate	
13	A60424	1	Keyed sleeve assembly	
14	D55571	1	Outside hub <i>or</i>	
not shown	D56003	1	Outside hub, lost motion	
15	A55505	2	Chassis screw	

FUNCTION CONVERSION

If you want to convert the function of an existing 8K Lock, use the following tables to determine the internal parts that you need. Unless otherwise noted, a quantity of one is used for each part.

Compare the column of the function you currently have with the column of the function you need to determine the new parts necessary for conversion.

Standard functions

Part No.	Description	AB	ပ	0	ш	9	H/HJ	_	z	×	Д	~	S	–	≥	>_
A54745	Button release assembly [†]															
B54742	Turn button assembly [†]															
B54744	Push button assembly [†]															
B54748	Slotted button assembly [†]															
B54810	Inside hub & plate assembly															
B54801	Outside hub & plate assembly															
B54809	Outside hub & plate assembly															
A54717	Outside convex rose for Y function [†]															
B54806	Non-keyed sleeve assembly								= ‡							
B54808	Non-keyed sleeve assembly															
B54807	Keyed sleeve assembly		= ‡			= ‡							*		*	
B54832	Keyed sleeve and hub assembly															
B54185	Knob driver <i>or</i>		= ‡			= ‡							= ‡		#	
A54856	Breakaway driver															
B54172	Chassis cover															
B54822	Retractor assembly with long catchplate															
B54820	Retractor assembly without catchplate															
A54860	Key release cam assembly															
A54861	Key release cam assembly														= ‡	
A54862	Key release cam assembly												= ‡			
A54863	Key release cam assembly															
A54864	Key release cam assembly					■ ‡										
A54865	Key release cam assembly															
A54867	Key release cam assembly															
B54749	Locking bar assembly for NX function															
A54190	Locking bar															
A54195	Locking bar															
B54187	Clamp stud (quantity 2)															
B54163	Chassis screw (quantity 2)															

[†] Specify finish.

[‡] Requires two.

Non-standard functions

Part No.	Description	۷	В	DR	DZ	EA	 Σ	Ò	RD	표	RZ	OX	X	۸D	۲R	7
A54736	Turn blade assembly for Z function [†]															
B54742	Turn button assembly [†]						■‡									
B54744	Push button assembly [†]															
B54748	Slotted button assembly [†]															
B54810	Inside hub and side plate assembly															
B54801	Outside hub & plate assembly															
B54809	Outside hub & plate assembly															
A54717	Outside convex rose for Y function [†]															
B54806	Non-keyed sleeve assembly															
B54808	Non-keyed sleeve assembly						■‡									
A54835	Non-keyed sleeve assembly															
B54836	Keyed sleeve assembly															
B54807	Keyed sleeve assembly			■ ‡					■ ‡							
B54185	Knob driver <i>or</i>			= ‡					= ‡			_	_		_	
A54856	Breakaway driver	_	_	_		_										
B54172	Chassis cover															
A54204	Bridge bar															
B54820	Retractor assembly without catchplate															
B54821	Retractor assembly with short catchplate															
B54822	Retractor assembly long catchplate															
A54860	Key release cam assembly															
A54861	Key release cam assembly															
A54862	Key release cam assembly															
A54866	Key release cam assembly						■ ‡									
A54867	Key release cam assembly															
B54187	Clamp stud (quantity 2)															
B54163	Chassis screw (quantity 2)															

[†] Specify finish. ‡ Requires two.

Electrical functions

Part No.	Description	Ē	7 ! !	DEU
B60207	Switch plunger		ı	
A55685	Inside hub assembly <i>or</i>		ı	
C60206	Inside hub assembly for RQE		l	
B60418	Modified drive collar & non-keyed sleeve assembly		I	
B60420	Knob return spring		ı	
B55504	Thrust plate [†]		l	
B60470	Wire protector cap		I	
B54172	Chassis cover		ı	
A60227	ID label (affixed to the chassis cover)		l	
C60232	Solenoid		I	
C60231	Solenoid			
C60224	Solenoid spring		l	
C60223	Solenoid spring			
B60463	Chassis frame and retractor assembly		l	
A60541	Key release cam assembly			
A60531	Key release cam assembly		I	
C55515	Spring drive plate		l	
A60424	Keyed sleeve assembly		l	
D55571	Outside hub <i>or</i>		l	
D56003	Outside hub, lost motion		I	
A55505	Chassis screw [†]		I	

[†] Requires two.

TRIM PARTS

Standard strikes and strike boxes

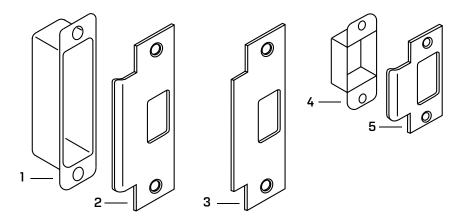


Figure 2.35 Standard strikes and strike boxes

Standard strikes and strike boxes parts list

	Nomen-		
ltem	clature	Part no.	Description
1	30HS4	B34380	ANSI Plastic strike box
2	8KS3 [†]	B25641	ANSI Strike
3	8KS3-7/8 [†]	C63016	ANSI 7/8" flat lip strike
4	8KS1	B25640	Standard steel strike box
5	8KS2 [‡]	B25639	Standard strike package

[†] Use the nomenclature to order the ANSI strike package, which includes the strike, two A25359 screws, and two A18724 screws. Specify finish.

Non-standard strikes

Non-standard strikes parts list

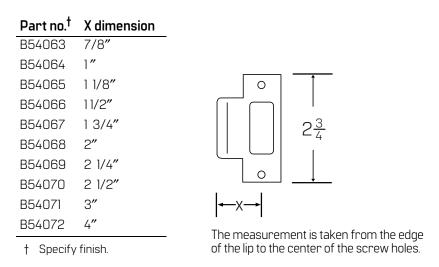


Figure 2.36 Understanding strike lip measurement

[‡] Use the nomenclature to order the standard strike package, which includes the strike and four A25359 screws. Specify finish.

Lead-lined parts

The 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. In the following graphic, the shaded portions indicate the lead shields.

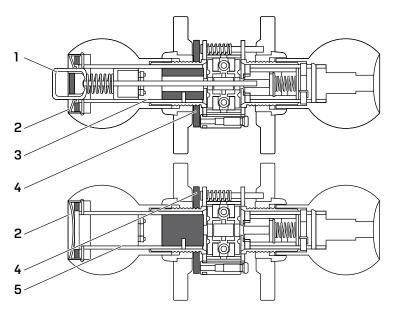


Figure 2.37 Cross-section of 8K locks showing lead-lined parts

Lead-lined parts list

Item	Description
1	Button assembly with shield
2	Knob with face shield
3	Inside knob sleeve with shield (for button knobs)
4	Rose shield
5	Inside knob sleeve with shield (for plain or keyed knobs)

Style E

rose rings 2 Style A Style C

Figure 2.38 Roses and rose rings

Roses and

Roses and rose rings parts list

Style D

ltem	Style	Part no.	Qty.	Description
1	Α	B54702	1	Outside rose assembly—large concave
2	Α	B54700	1	Inside rose assembly—large concave
3	A & C	A54720	1	Inside rose ring—large concave
4	С	B54713	1	Outside rose assembly—small concave
5	С	B54712	1	Inside rose assembly—small concave
6	D	A54716	1	Outside rose assembly—small concave
7	D	B54715	1	Inside rose assembly—large convex
8	D	A54714	1	Inside rose ring—large convex
9	Ε	A54723	1	Outside rose assembly—thin door
10	Е	A54722	1	Inside rose assembly—thin door

10 -

Knobs and components

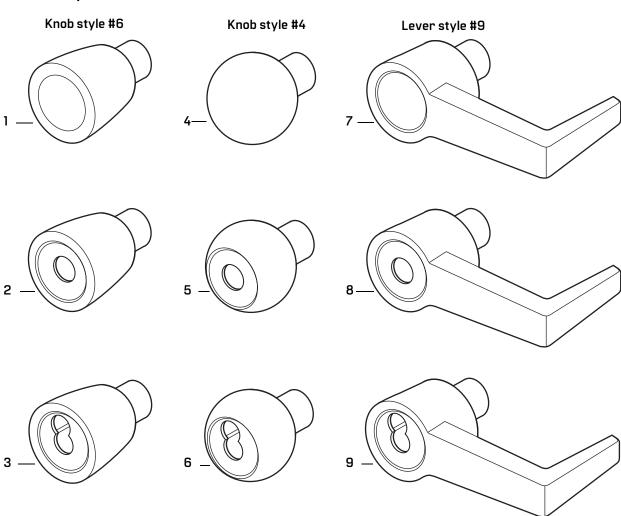


Figure 2.40 Knobs

Knobs parts list

Style	ltem	Description	Standard	Tactile	Knurled
	1	Plain tulip knob	B54705	N/A	B54756
6	2	Button tulip knob	B54706	N/A	B54757
	3	Keyed tulip knob	B54703	N/A	B54755
	4	Plain round knob	B54707	B54731	N/A
4	5	Button round knob	B54708	B54732	N/A
	6	Keyed round knob	B54704	B54730	N/A
	7	Plain lever handle [†]	B54778	N/A	N/A
9	8	Button lever handle [†]	B54779	N/A	N/A
	9	Keyed lever handle [†]	B54777	N/A	N/A

[†] Lever handles are not available for electrified functions.

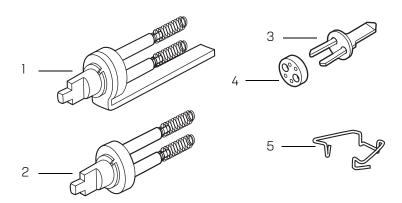


Figure 2.41 Standard knob components

Knob components parts list

ltem	Part no.	Qty.	Description
1	A55697	1	"H" throw member
2	A55696	1	"HJ" throw member
3	B91912	l ţ	8K throw member with blocking plate [‡]
4	1882120	50	Six pin spacer
5	B54182	1	Lever keeper spring

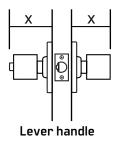
[†] Single-keyed locks require one (1); double-keyed locks require two (2).

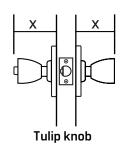
8K Series Service Manual 2–53

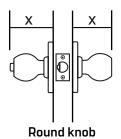
[‡] For information about cores and keys, see the *Core and Key Service Manual.*

Knob projections from door

The following illustrates and lists the distance that the different knobs project from a door.







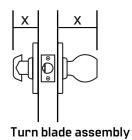


Figure 2.42 Knob projections

Knob projection table

Туре	Style	Projection from door (x)
Plain lever handle	9	3″
Keyed lever handle		3″
Button lever handle		3 1/4"
Plain tulip knob	6	3″
Keyed tulip knob		3″
Button tulip knob		3 1/4"
Plain round knob	4	3″
Keyed round knob		3"
Button round knob		3 1/4"
Turn blade assembly		2"

Dummy trim

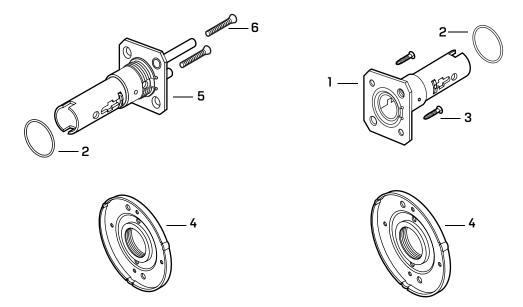
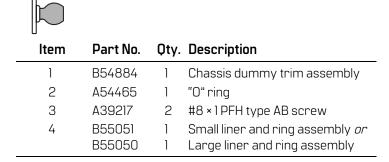


Figure 2.43 Dummy trim parts

Single dummy trim parts list



Double dummy trim parts list



Item	Part No.	Qty.	Description
1	B54884	1	Chassis dummy trim assembly
2	A54465	2	"O" ring
4	B55051	2	Small liner and ring assembly <i>or</i>
	B55050	2	Large liner and ring assembly
5	B54885	1	Chassis dummy trim assembly
6	A18991	2	#8-32 × 1 1/8 Phil. FHMS screw

8W components

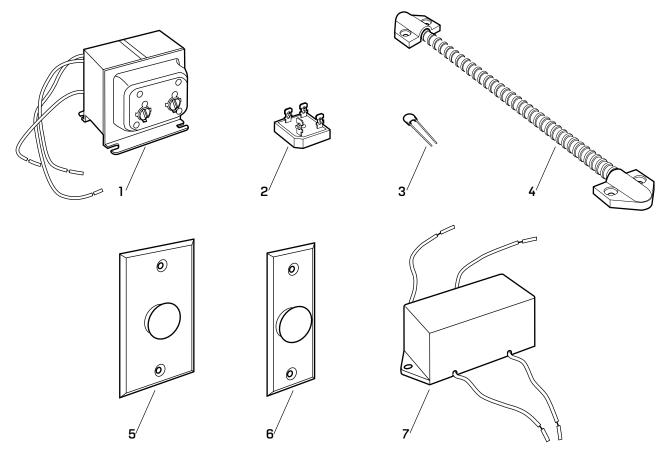


Figure 2.44 8W components

8W components parts list

Refer to Figure 2.44 and the table below to find the part you need.

	Nomen-			
ltem	clature	Description		
1	8W599	Transformer		
2	8WCON	AC to DC converter full wave bridge rectifier		
3	8WM0V	Metal oxide varistor		
4	8WDTL	Door transfer loop		
5	8WBU-1-A	Standard plate for RQE switch		
6	8WBU-1-N	Narrow plate for RQE switch		
7	8WTCM	Temperature control module		

Latches

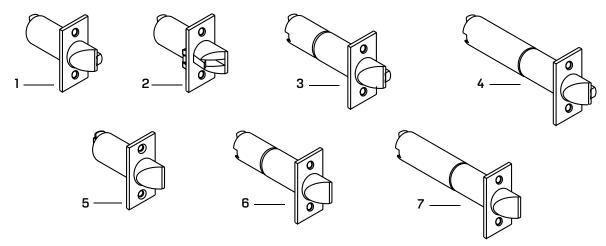


Figure 2.45 Latches

Latches parts list

				Nomen-	
ltem	Latch type	Backset	Part no.	clature [†]	Description
1	Deadlocking	2 3/4"	C54680	8KL3 [‡]	Latch
2	Deadlocking	2 3/4"	A54661	8KL3-3/4 [‡]	Latch with 3/4" throw
3	Deadlocking	3 3/4"	C54682	8KL4 [‡]	Latch
4	Deadlocking	5 "	C54684	8KL5 [‡]	Latch
5	Spring	2 3/4"	C54681	8KSL3 [‡]	Latch
6	Spring	3 3/4"	C54683	8KSL4 [‡]	Latch
7	Spring	5 "	C54685	8KSL5 [‡]	Latch

[†] Specify finish.

[‡] Use the nomenclature to order the latch package, which includes the latch and two A25359 screws.

Installation tools

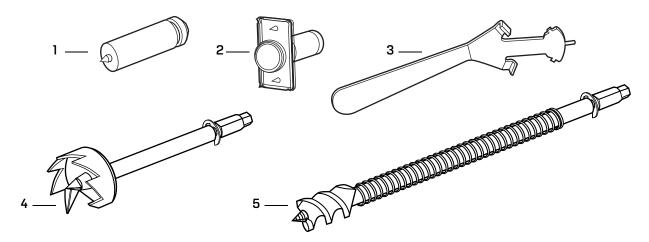


Figure 2.46 Installation tools

Installation tools parts list

	Nomen-		
ltem	clature	Part no.	Description
1	KD325	A01514	Strike plate locating pin
2 not shown	KD315 KD312		Faceplate marking chisel $(11/8" \times 21/4")$ Faceplate marking chisel $(1" \times 21/4")$
3	KD316	C54466	KD316 spanner wrench
4	KD309	A54084	21/8" diameter chassis hole bit assembly †
5	KD318	A54085	1" diameter drill bit assembly [†]

[†] Use with the boring jig.

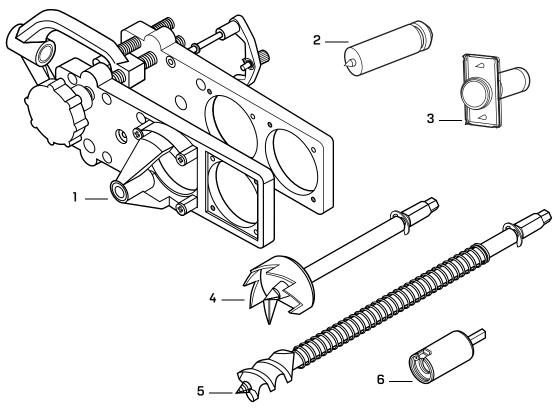


Figure 2.47 Boring jig kit

Boring jig kit parts list

	Nomen-		
Item	clature	Part no.	Description
1	N/A	N/A	Boring jig [†]
2	KD325	A01514	Strike plate locating pin
3	KD315	1350393	Faceplate marking chisel (11/8″ × 21/4″)
not shown	KD312	1487975	Faceplate marking chisel (1" × 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 [†]
1–6	KD304A	N/A	Boring jig kit

[†] Can only be ordered as part of the KD304A boring jig kit.

3

SERVICE AND MAINTENANCE

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

	266
То	page
Replace knobs	3–3
Replace the knob driver	3–6
Replace roses	3–7
Replace button assemblies	3–10
Replace the knob keeper spring	3–12
Replace the key release cam assembly	3–13
Replace the sleeve assembly	3–16
Replace electrified function roses	3–18
Replace the RQE rose liner	3–21
Replace the solenoid	3–21
Add the RQE switch to a function	3–22
Reverse the solenoid when changing functions	3–22
Lubricate cores	3–22
Align chassis and trim	3–23
Position the locking cam for C function locks	3–24
Position the locking cam for G function locks	3–25
Position the locking cam for R, S, & T function locks	3–26
Use the emergency key for H and HJ function locks	3–28
Troubleshoot common problems	3–29

MAINTENANCE TOOLS

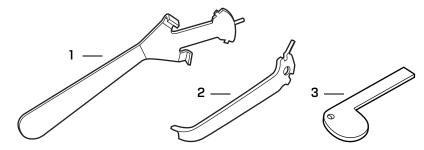


Figure 3.1 Maintenance tools

Maintenance tools parts list

	Nomen-		
ltem	clature	Part no.	Description
1	KD316	C54466	KD316 spanner wrench
2	KD317	C55506	KD317 spanner wrench
3		A25586	Emergency driver [†]

[†] For use with hotel function locks (H and HJ).

REPLACING COMPONENTS

Replacing the knob

To remove the keyed knob:

- 1. Insert the control key into the core and rotate the key 15 degrees to the right.
- 2. Remove the core and throw member from the knob.
- 3. Insert a flat blade screwdriver into the figure-8 core hole and into the knob keeper.
- 4. Press the screwdriver blade in the direction of the arrow, as shown in Figure 3.2.

Note: You will not be able to remove the knob if the screwdriver blade is inserted too far past the keeper.

5. Slide the knob off of the sleeve.

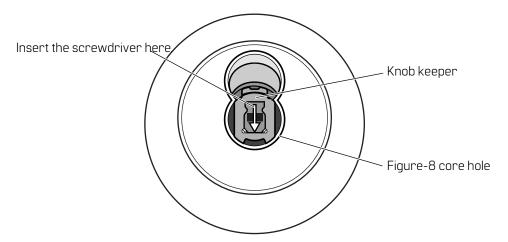


Figure 3.2 Removing the keyed knob

To remove the plain knob or button knob:

- 1. Insert the long protrusion on the KD316 spanner wrench into the hole on the shaft of the knob, as shown in Figure 3.3.
- 2. Slide the knob off the sleeve.

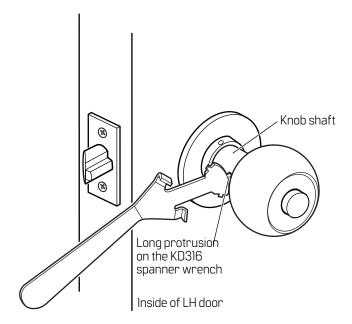


Figure 3.3 Removing the plain knob or button knob

To reinstall the knob:

- 1. Align the two drive lugs (plain or button knob) or notches (keyed knob) with the two slots in the sleeve, as shown in Figure 3.4.
- 2. Slide the knob onto the sleeve and firmly push on the knob until it is seated.

Inside of the keyed knob viewed through the knob shaft

Sleeve

Keyed knob

Outside of LH door

3. Turn the knobs to check that they operate smoothly.

Figure 3.4 Reinstalling the knob

4. If the knob is keyed, insert the control key into the core and rotate the key 15 degrees to the right. Using the control key, insert the core and throw member into the knob. Rotate the control key 15 degrees to the left and remove the key.

Replacing the knob driver

To remove the knob driver:

- 1. Remove the keyed knob (page 3-3).
- 2. Use a flat blade screwdriver to press down on the knob driver tab, which is visible through the cutout in the top of the sleeve, as shown in Figure 3.5. The knob driver should fall out through the cutout in the bottom of the sleeve.

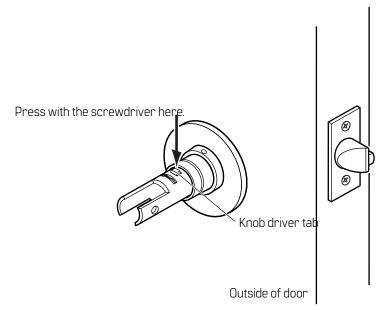


Figure 3.5 Removing the knob driver

To reinstall the knob driver:

- 1. Position the knob driver as shown in Figure 3.6.
- 2. Insert the knob driver into the sleeve until it snaps into place. The knob driver tab should be visible through the cutout in the top of the sleeve.

3. Reinstall the keyed knob (page 3–4).

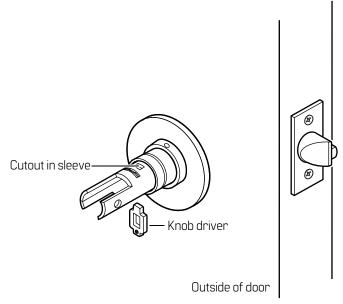


Figure 3.6 Reinstalling the knob driver

Replacing the inside rose assembly

To remove the inside rose assembly:

- 1. Remove the inside knob (page 3-4).
- 2. Insert the short protrusion on the KD316 spanner wrench into the hole on the rose ring and rotate it until you can remove the rose ring, as shown in Figure 3.7.
- 3. Slide the rose assembly off of the sleeve.

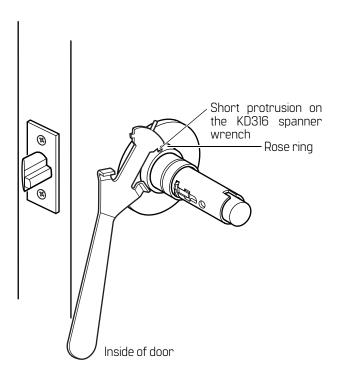


Figure 3.7 Removing the inside rose ring with the KD316 spanner wrench

To reinstall the inside rose assembly:

- 1. Slide the rose assembly onto the sleeve, as shown in Figure 3.8.
- 2. Thread the rose ring onto the sleeve until the rose assembly is snug against the door.
- 3. Reinstall the knob (page 3-4).

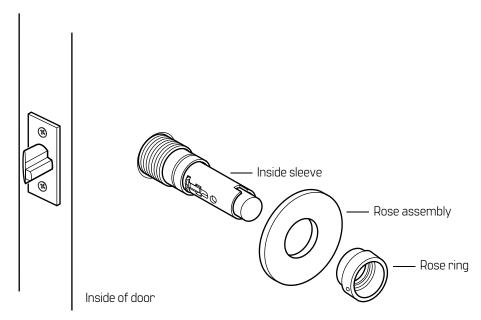


Figure 3.8 Reinstalling the inside rose assembly and rose ring

Replacing the outside rose assembly

To remove the outside rose assembly:

- 1. Remove the following components:
 - knobs (page 3-3)
 - inside rose assembly (page 3–7).
- 2. Slide the chassis assembly out of the door.
- 3. Retract the rose locking pin, and rotate the rose assembly until it is free from the hub. See Figure 3.9.

3-8

4. Remove the outside rose assembly from the sleeve.

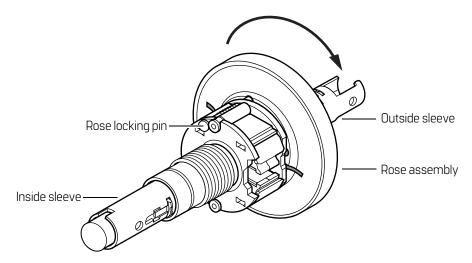


Figure 3.9 Removing the outside rose assembly

To reinstall the outside rose assembly:

- 1. Retract the rose locking pin. See Figure 3.10. When reinstalling the chassis and rose assembly in the door, rotate the rose assembly until it is positioned so that the chassis is centered in the door and the rose assembly is flush against the door.
- 2. Release the rose locking pin into a groove in the rose liner. The pin should lock into the rose liner.

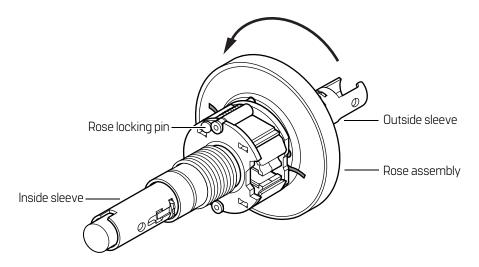


Figure 3.10 Reinstalling the outside rose assembly

3. Install the lock chassis assembly from the outside. Make sure the latch tabs engage the chassis frame and the latch tailpiece engages the retractor, as shown in Figure 3.11.

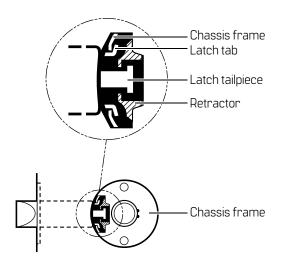


Figure 3.11 Engaging the retractor in the tailpiece

- 4. Reinstall the following components:
 - inside rose assembly (page 3–8)
 - knobs (page 3-4).

Replacing the button assembly

To remove the button assembly:

Note: These instructions apply for all types of button assemblies.

- 1. Remove the following components:
 - knobs (page 3–4)
 - inside rose assembly (page 3–7)
 - outside rose assembly (page 3–9).
- 2. Use a flat blade screwdriver to press down on the button assembly tab, which is visible through the cutout in the sleeve, as shown in Figure 3.12. The tab should now lie flat.

Note: When performing this step, it is best to position the lock on a flat surface so that the retractor faces upward.

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

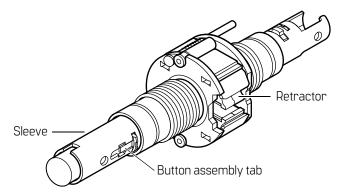


Figure 3.12 Removing the button assembly

To reinstall the button assembly:

 Insert the new button assembly into the sleeve, as shown in Figure 3.13, until the tab lines up with the cutout in the sleeve. It may be necessary to slightly press in the retractor with your thumb so that the locking bar can properly align itself through the chassis and into the key release cam assembly.

Note: The button assembly should not pop out of the sleeve. If it does, the assembly is misaligned and will not function properly.

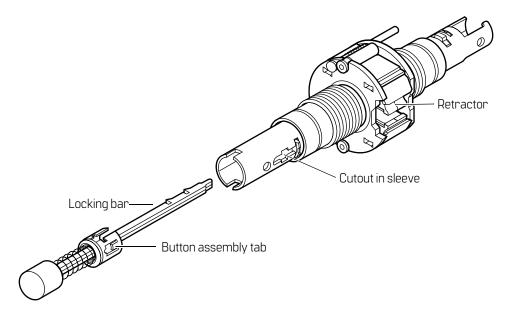


Figure 3.13 Inserting the button assembly into the sleeve

2. Insert a small screwdriver into the cutout in the sleeve and under the button assembly tab. Bend the tab into the cutout, as shown in Figure 3.14.

Note: Do not bend the tab so that it protrudes further than the diameter of the sleeve. It could interfere with the knob function.

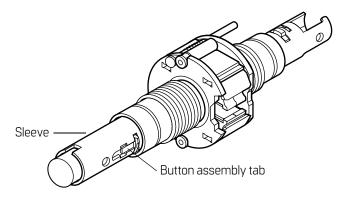


Figure 3.14 Bending the button assembly tab

- 3. Reinstall the following components:
 - outside rose assembly (page 3–9)
 - inside rose assembly (page 3-7)
 - knobs (page 3-4).

Replacing the knob keeper spring

To remove the knob keeper spring:

- 1. Remove the following components:
 - knobs (page 3-4)
 - inside rose assembly (page 3–7)
 - outside rose assembly (page 3–8)
 - button assembly, if present (page 3–10).
- 2. Using a pair of needle-nosed pliers, reach into the sleeve and remove the knob keeper spring. See Figure 3.15.

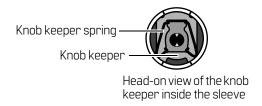


Figure 3.15 Removing the knob keeper spring

To reinstall the knob keeper spring:

1. Position the knob keeper spring as shown in Figure 3.16.

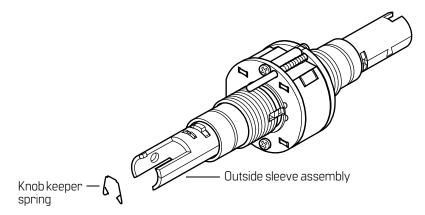
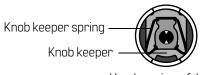


Figure 3.16 Positioning the knob keeper spring

2. Use a pair of needle-nosed pliers to insert the knob keeper spring into the sleeve. Using the pliers, work the spring into position so that the spring is gripping the knob keeper, as shown in Figure 3.17.

Note: If the knob keeper spring is not installed correctly, the knob may fall off the chassis.



Head-on view of the knob keeper inside the sleeve

Figure 3.17 Knob return spring in position

- 3. Reinstall the following components:
 - button assembly, if present (page 3–11)
 - outside rose assembly (page 3–9)
 - inside rose assembly (page 3–7)
 - knobs (page 3-4).

Replacing the key release cam assembly

To remove the key release cam assembly:

- 1. Remove the following components:
 - \blacksquare knobs (page 3-4)
 - inside rose assembly (page 3–7)
 - outside rose assembly (page 3–8)
 - button assembly, if present (page 3–10).

2. Remove the two chassis screws shown in Figure 3.18, and separate the hub and sleeve assembly from the rest of the chassis. Save the two screws.

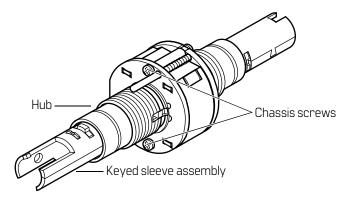


Figure 3.18 Separating the chassis

3. Rotate the ear on the key release cam 45 degrees and pull the key release cam assembly out of the sleeve, as shown in Figure 3.19.

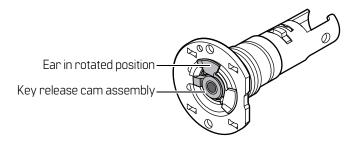


Figure 3.19 Removing the key release cam assembly

To reinstall the key release cam assembly:

- 1. Make sure that the deep slot in the sleeve lines up with the slot in the hub.
- 2. Insert the key release cam assembly into the sleeve so that the locking lug fits into the slot in the sleeve, as shown in Figure 3.20.

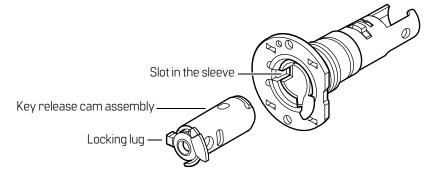


Figure 3.20 Reinstalling the key release cam assembly

- 3. Slide the chassis cover over the retractor assembly.
- 4. Align the open end of the retractor assembly with the ears on the key release cam assembly and sleeve in the inside hub assembly.
- 5. Press the retractor toward the retractor springs and insert the feet of the retractor assembly into the notches in the inside hub, as shown in Figure 3.21.

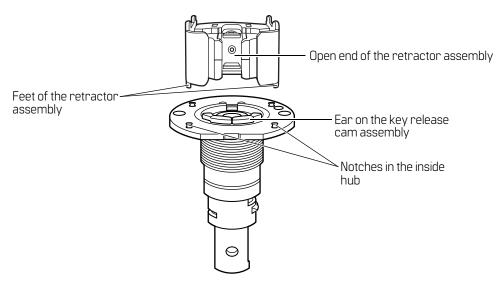


Figure 3.21 Positioning the retractor

6. Align the feet of the retractor assembly with the notches in the outside hub assembly, and the rose locking pin with the smaller of the two holes on the outside assembly, as shown in Figure 3.22. Press the retractor toward the retractor springs and slide the two sections together.

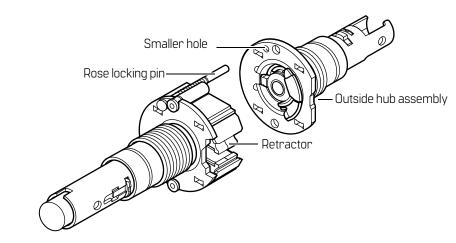


Figure 3.22 Reinstalling the retractor

7. Install the two chassis screws.

- 8. Reinstall the following components:
 - button assembly, if present (page 3–11)
 - outside rose assembly (page 3–9)
 - inside rose assembly (page 3–7)
 - knobs (page 3-3).

Replacing the sleeve assembly

To remove the sleeve assembly:

- 1. Remove the following components:
 - \blacksquare knobs (page 3–3)
 - knob driver of the sleeve you are replacing (page 3–6)
 - inside rose assembly (page 3-7)
 - outside rose assembly (page 3–8)
 - button assembly, if present (page 3–10)
 - key release cam assembly (page 3–13).
- 2. Position the sleeve as shown in Figure 3.23. Push the sleeve through the hub as far as possible.
- 3. From the end of the sleeve that is opposite of the hub, insert a flat blade screwdriver through the sleeve and into the knob keeper.
- 4. Press the screwdriver blade in the direction of the arrow in Figure 3.23. Push the sleeve through the hub, keeping the knob keeper pushed in until it clears the hub.

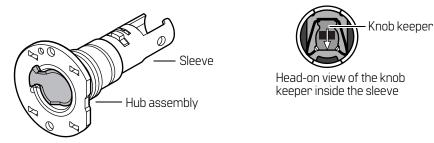


Figure 3.23 Removing and replacing the sleeve assembly

To reinstall the sleeve assembly:

- 1. Insert the sleeve through the hub as far as possible.
- 2. Insert a flat blade screwdriver through the sleeve and into the knob keeper.
- 3. Press the screwdriver blade in the direction of the arrow in Figure 3.23. Push the sleeve the rest of the way through the hub.

4. Align the sleeve so that the deep slot in the sleeve lines up with the slot in the hub, as shown in Figure 3.24.

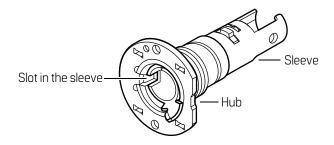


Figure 3.24 Positioning the sleeve

- 5. Reinstall the following components:
 - key release cam assembly (page 3–14)
 - button assembly, if present (page 3–11)
 - outside rose assembly (page 3–9)
 - inside rose assembly (page 3–7)
 - knobs (page 3-4).

REPLACING COMPONENTS FOR ELECTRIFIED FUNCTION LOCKS

Replacing the inside rose and rose liner

To remove the inside rose and rose liner:

- 1. Remove the inside knob (page 3–3).
- 2. Insert the solid, curved end of the KD317 spanner wrench in between the rose and the sleeve, as shown in Figure 3.25. Pry the rose until it pops off of the liner.

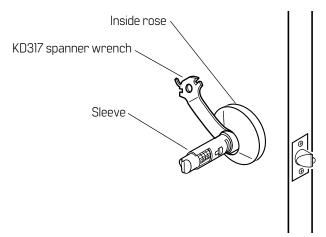


Figure 3.25 Removing the inside rose with the KD317 spanner wrench

3. Unscrew the two through-bolts, as shown in Figure 3.26. Save the through-bolts.

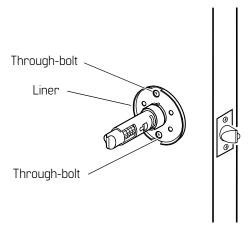


Figure 3.26 Removing the two through-bolts

- 4. If there is an RQE rose liner, disconnect it.
- 5. Slide the liner off of the sleeve.

To reinstall the inside rose and rose liner:

- 1. Align the holes in the liner with the holes prepared in the door.
- 2. Install the two through-bolts through the liner and door in the top and bottom holes.
- 3. Tighten the liner onto the door with the through-bolts.
- 4. If there is an RQE rose liner, connect it.
- 5. Install the rose.
- 6. Reinstall the knob (page 3-4).

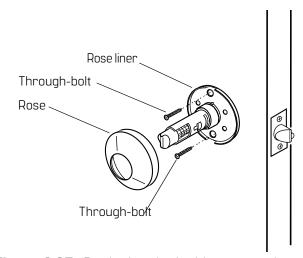


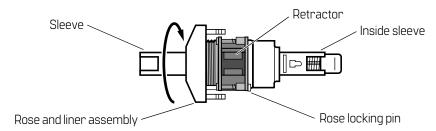
Figure 3.27 Replacing the inside rose and rose liner

Replacing the outside rose and liner assembly

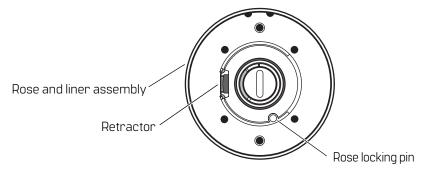
To remove the outside rose and liner assembly:

- 1. Remove the following components:
 - knobs (page 3-3)
 - inside rose and rose liner (page 3–18).
- 2. Slide the chassis assembly out of the door.
- 3. Retract the rose locking pin, and rotate the rose and liner assembly counterclockwise until it is free from the hub.

4. Remove the rose and liner assembly from the sleeve.



Retractor-side view of the chassis



Head-on view of the rose and liner assembly from the inside sleeve side

Figure 3.28 Removing the outside rose and liner assembly

To reinstall the outside rose and liner assembly:

1. Retract the rose locking pin, and rotate the rose and liner assembly clockwise until the proper door thickness groove on the through-bolt stud lines up with the hub face.

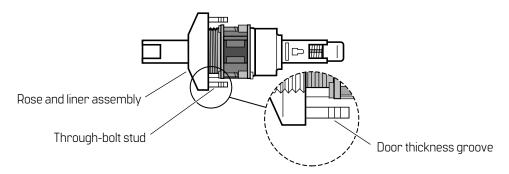


Figure 3.29 Replacing the outside rose and liner assembly

- 2. Release the rose locking pin. It should lock into the rose liner.
- 3. Install the lock chassis assembly from the outside. Make sure the latch tabs engage the chassis frame and the latch tailpiece engages the retractor.

- 4. Reinstall the following components:
 - inside rose and rose liner (page 3–8)
 - knobs (page 3-3).

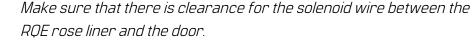
Replacing the RQE rose liner

To remove the ROE rose liner:

- 1. Remove the following components:
 - \blacksquare knobs (page 3–3)
 - inside rose and rose liner (page 3–18).
- 2. Disconnect the RQE connector.
- 3. Remove the through-bolts and the RQE rose liner.

To reinstall the ROE rose liner:

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





- 2. Install the through-bolts through the RQE rose liner and door in the top and bottom holes.
- 3. Tighten the RQE rose liner on the door with the through-bolts.
- 4. Connect the ROE connector.
- 5. Reinstall the following components:
 - inside rose and rose liner (page 3–8)
 - knobs (page 3-3).

Replacing the solenoid

Because of the complex nature of this procedure, dormakaba recommends that you order a new cylindrical chassis. Contact your dormakaba representative.

Use the part numbers listed in *Reversing the solenoid when changing the function* when ordering a new cylindrical chassis. See page 3–22.

ADDING THE ROE SWITCH TO ELECTRIFIED FUNCTION LOCKS

Because of the complex nature of this procedure, dormakaba recommends that you order a new electrified function chassis and a RQE rose liner. Contact your dormakaba representative.

Use the following part numbers when ordering a new electrified function chassis and RQE rose liner.

Chassis type	Part number
8KW DEL	C60247
8KW DEU	C60243
ROE rose liner	Part number

Large

REVERSING THE SOLENOID WHEN CHANGING THE ELECTRIFIED FUNCTION

B60221

Because of the complex nature of this procedure, dormakaba recommends that you order a new electrified function chassis. Contact your dormakaba representative.

Use the following part numbers when ordering a new electrified function chassis.

Chassis type	Part number
8KW DEL	C60247
8KW DEL (without RQE)	C60246
8KW DEU	C60243
8KW DEU (without RQE)	C60242

LUBRICATING THE CORES



Do not lubricate cores with oil. Doing so will only attract dirt.

For powdered graphite lubrication:

- Dip a key in graphite. Insert the key into the keyhole and remove it; repeat several times. OR
 Spray graphite into the keyhole. Insert the key into the keyhole and
 - remove it; repeat several times.

For silicone type lubrication:

1. Clean all existing lubricant out of the core.



Do not mix graphite with a silicone-type lubricant.

2. With the core inverted, spray the lubricant into the key opening allowing the spray to penetrate the 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.

ALIGNING THE CHASSIS AND TRIM

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 loose and require tightening.

To retighten a loose or misaligned chassis or rose trim:

- 1. Remove the inside trim. Instructions begin on page 3–3.
- 2. Align the chassis with the latch. Make sure that the latch tabs engage the chassis frame and the latch tailpiece engages the retractor, as shown in Figure 3.30.

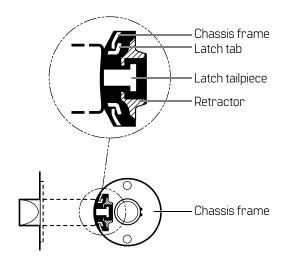


Figure 3.30 Engaging the retractor in the latch

- 3. Tighten the chassis screws.
- 4. Test the knob operation to make sure that the latch tailpiece does not bind with the chassis retractor.
- 5. Reinstall the inside trim. Instructions begin on page 3–3.

CAM POSITIONING INSTRUCTIONS

Positioning the cam for C function locks

Vibration during the shipment of the C function locks may cause the inside locking cam to rotate out of position. It is possible to insert the core and throw member in this incorrect position, but faulty operation will result. You might notice this problem in one of the following ways.

- The inside key does not rotate the full 360 degrees and the outside key does not rotate the full 135 degrees. Remove the inside core and throw member, and perform the steps below to reposition the inside locking cam.
- Before you install the core and throw member, you can see that the inside locking cam is not positioned as shown in Figure 3.31. Perform the following steps to reposition the inside locking cam.

To reposition the locking cam:

 Be sure the inside knob locking cam, which engages the throw member, is rotated. Looking into the figure-8 core hole in the inside knob, turn the locking cam ears to match the position shown in Figure 3.31.

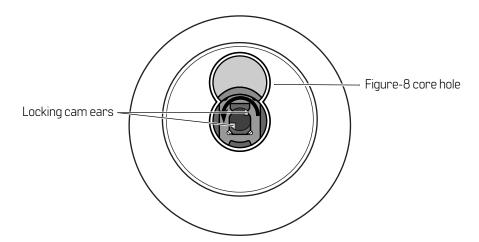


Figure 3.31 Correct position of the C function inside locking cam

- 2. With the lock in the locked position, install the core and throw member.
- 3. Check the operation of the knobs while the door is open. The outside knob is locked by rotating the inside key 360 degrees clockwise and unlocked by rotating the inside key 360 degrees counterclockwise

Positioning the cam for G function locks

Vibration during the shipment of the G function locks may cause the inside locking cam to rotate out of position. It is possible to insert the core and throw member in this incorrect position, but faulty operation will result. You might notice this problem in one of the following ways.

- With the knobs in the locked position, both the inside and outside keys do not rotate one full turn in both directions. Remove both cores and throw members, and perform the following steps to reposition the locking cam.
- Before you install the core and throw member, you can see that the locking cam is not positioned as shown in Figure 3.32. Perform the following steps to reposition the locking cam.

To reposition the locking cam:

1. Looking through the figure-8 core hole in either knob, turn the locking cam drive slot to match the position shown in Figure 3.32.

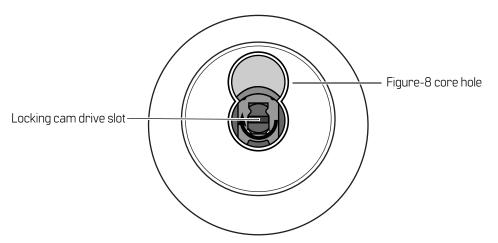


Figure 3.32 Correct position of the G function locking cam

2. With the lock in the locked position, install that knob's core and throw member

3. Looking into the figure-8 core hole in the other knob, turn the locking cam drive slot until it stops, as shown in Figure 3.33.

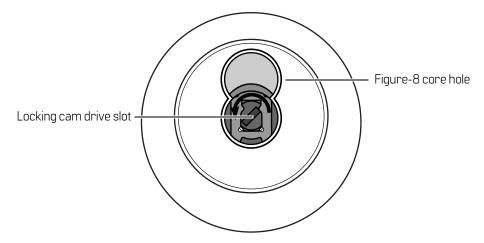


Figure 3.33 Intermediate position of the G function locking cam

- 4. Turn the drive slot clockwise to match the position shown in Figure 3.32.
- 5. Reinstall that knob's core and throw member.
- 6. Check the operation of the knobs while the door is open. The knobs are locked by rotating the key 1 1/4 turns counterclockwise and unlocked by rotating the key 1 1/4 turns clockwise.

Positioning the cam for R, S, & T function locks

Vibration during the shipment of the R, S, & T function locks may cause the locking cam to rotate out of position. It is possible to insert the core and throw member in this incorrect position, but the lock will not function properly. You might notice this problem in one of the following ways.

- The inside key does not rotate the full 360 degrees and/or the outside key does not rotate the full 135 degrees. Remove the core and throw member, and perform the steps below to reposition the inside locking cam.
- Before you install the core and throw member, you can see that the locking cam is not positioned as shown in Figure 3.34. Perform the following steps to reposition the locking cam.

To reposition the locking cam:

1. Be sure the locking cam, which engages the throw member, is rotated counterclockwise. Looking into the figure-8 core hole in the knob, turn the locking cam ears counterclockwise to match the position shown in Figure 3.34.

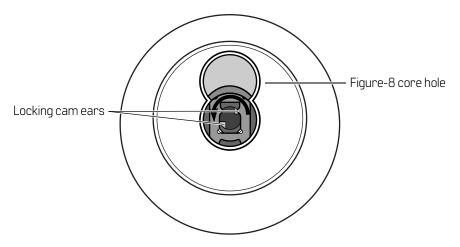


Figure 3.34 Correct position of the R, S, & T function locking cam

- 2. With the lock in the locked position, install the core and throw member.
 - For the S function, repeat Steps 1 and 2 for the other side of the lock. For the R and T functions, go to Step 3.
- 3. Check the operation of the knobs while the door is open. The knob is locked by rotating the key 360 degrees counterclockwise and unlocked by rotating the key 360 degrees clockwise.

Note: For T function locks, when the outside knob is locked by the key, the knob remains locked even though the push button is released from turning the inside knob or closing the door.

EMERGENCY KEY INSTRUCTIONS FOR H AND HJ FUNCTION LOCKS

To use the emergency key:

- 1. Remove the core and throw member (page 3–3).
- 2. Insert the blade of the emergency key into the slot of the figure-8 core hole, as shown in Figure 3.35.

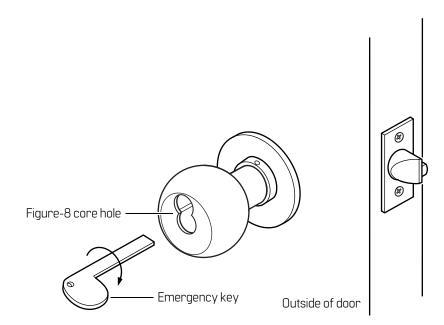


Figure 3.35 Inserting the emergency key

3. Turn the key and retract the latch.

TROUBLESHOOTING

This table summarizes the possible causes for certain lock problems. The causes are listed in the order of likelihood. (The most likely cause is first, and so forth.)

You notice	Possible causes include	You should
Knob won't return to its normal position.	There is binding between the knob and rose.	Ensure that the lock chassis is centered within the door (pg. 3-23).
Key spins freely, but won't retract the latch or unlock the door.	a. Throw member is not installed.	a. Install the throw member.
	b. 6-pin core is installed with a 7-pin throw member.	 b. Change the core or throw member.
	c. Knob driver is not installed.	c. Install the knob driver (pg. 3-6).
Core doesn't fit into the knob core hole.	a. 7- pin core is installed with a6-pin throw member.	 a. Change the core or throw member.
	b. Keyed knob is defective.	b. Replace the keyed knob (pg. 3-4).
Button doesn't pop out as expected.	Button shaft is damaged or bent.	Replace the button assembly (pg. 3-10).
Latch doesn't retract.	a. Latch tailpiece is broken.	a. Replace the latch assembly.
	 b. Latch tailpiece didn't engage the retractor correctly during installation. 	b. Reinstall the lock chassis (pg. 3-23).
For a C function lock, the inside key does not rotate the full 360°, and the outside key doesn't rotate the full 135°.	Inside locking cam is out of position.	Reposition the inside locking cam (pg. 3-24).
For a G function lock with knobs in the locked position, the key doesn't rotate one full turn in both directions.	Locking cam is out of position.	Reposition the locking cam (pg. 3-25).
For R, S, and T function locks, the key doesn't rotate one full turn in both directions.	Locking cam is out of position.	Reposition the locking cam (pg. 3-26).
Cannot remove the operating key from an H or HJ function lock.	Key is turned 180 degrees past the correct position.	Push the inside button, turn the key back 180°, and remove the key.



INSTALLATION INSTRUCTIONS

The following pages contain the *Installation Instructions for 8K Cylindrical Locks* and the *Wiring Instructions for 8K & 9K Series Electrified Cylindrical Locks*.

Installation Instructions for 83K-85K Cylindrical Locks



Preparing the door

For factory prepared doors only

- 1 Install the latch so that the bevel on the latchbolt faces the strike lip.
- 2 Adjust the outside rose so that the chassis is centered in the door. Install the chassis from the outside of the door.
- 3 Install the inside rose, rose ring, knob, and strike plate. Caution: If you use fabricated hollow metal doors, determine whether the doors are reinforced enough to support the lock. If the door reinforcement is not adequate, consult the door manufacturer for information on proper reinforcement.

Note: For detailed installation instructions, see the following steps.

1 Position template

- 1 Fold the template and place it in position on the high edge of the door bevel. (See Figure 2.)
- 2 Mark the drill points.

Note: Suggested height from floor to centerline of the lock is 40 5/16". If steel frames are used, the latch centerline must be in line with the center of the strike preparation.

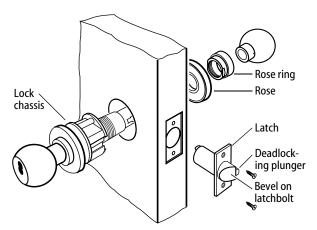


Figure 1 Overview diagram

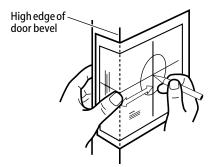


Figure 2 Marking the drill points

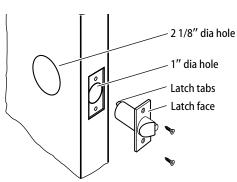


Figure 3 Boring holes and installing the latch

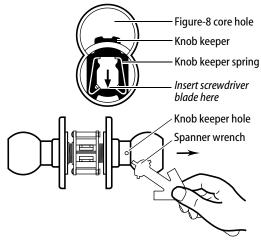


Figure 4 Removing inside knob and trim

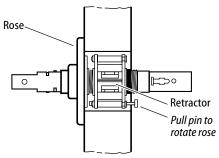


Figure 5 Marking the centerlines

Preparing the lock

2 Bore holes and install latch

- 1 Bore a 2 1/8" diameter hole from both sides of the door to the center of the door. (See Figure 3.)
- 2 Drill a 1" diameter hole from the edge of the door that intersects the 2 1/8" hole.
- 3 Mortise the door edge for the latch face.
- 4 Install the latch and check the door swing. Latch tabs should project into the 2 1/8" diameter hole. See Task 5, *Install chassis*.

3 Remove inside knob and trim

For inside knobs with button or blank face:

- 1 Insert the spanner wrench tip into the knob keeper hole and depress the keeper. (See Figure 4.)
- 2 Slide the knob off.
- 3 Unthread the rose ring and remove the rose.

For keyed inside knobs:

- 1 Remove the core and throw member (if not already removed). For instructions on removing the core, see Task 9, *Install core*.
- 2 Insert a screwdriver into the figure-8 core hole and into the keeper. (See Figure 4, top.)
- 3 Using the edge of the screwdriver, press down on the keeper and slide the keyed knob off of the sleeve.

Caution: You will not be able to remove the knob if you put the screwdriver blade too far past the keeper.

4 Center lock in door

Check to see if the lock retractor is centered in the door.

- If centered, proceed to Task 5, *Install core*.
- If not centered, use the door as a reference and center the retractor in the door. Do this by pulling the rose locking pin and rotating the outside rose in or out. (See Figure 5.)

Caution: Center the retractor before proceeding to Step 5, Install chassis.

Installing the lock

Note 1: Make sure the locking pin locks back into the rose liner.

Note 2: Locks with standard trim will fit doors 1 3/8" to 2 1/8" thick. Locks with 'E' trim will fit doors 2 1/4" to 3" thick.

5 Install chassis

After the retractor has been centered, and with the latch in place, install the chassis from the outside of the door. Make sure the latch tabs fit into the chassis frame and the latch tailpiece fits into the retractor. (See Figure 6.)

6 Install inside rose and knob

Note: For lead lined locksets, slide the lead shield (not shown) over the sleeve and into the 2 1/8" hole.

Slide the rose over the sleeve, then thread the rose ring onto the threaded hub and tighten snugly with the spanner wrench.

For non-keyed inside knobs:

2 Align the knob keeper hole with the knob keeper in the sleeve as shown in Figure 7. Firmly push the knob on until seated.

For keyed inside knobs:

2 Align either of the knob driver slots with the knob driver in the sleeve as shown in Figure 8. Firmly push the knob on until seated.

7 Install strike plate

1 Mortise the door jamb to fit the strike box and strike plate. Make sure to align the strike plate and latchbolt centers.

Caution: The deadlocking plunger of the latchbolt must not enter the strike plate. The plunger deadlocks the latchbolt and prevents forcing the latch when the door is closed. Excessive gap may reduce security and/or cause malfunction of the latchbolt assembly. A maximum door gap of 1/8" is recommended.

2 Insert the strike box and secure the strike plate with the screws provided.

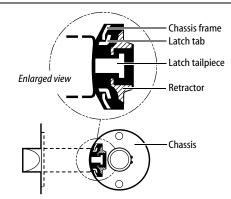


Figure 6 Installing the chassis

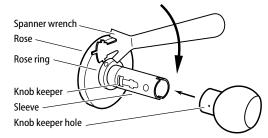


Figure 7 Installing the inside knob and rose

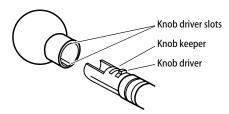


Figure 8 Installing the inside keyed knob

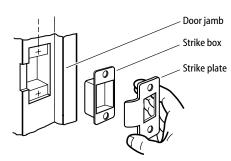


Figure 9 Installing the strike

Rotate Knob face Figure-8 hole Inorrect Correct

Figure 10 Turning the knob face to correct the handing of the lock

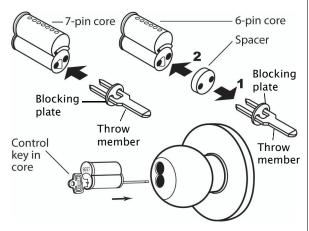


Figure 11 Installing the figure-8 core

Completing the installation

8 Check handing

Note: When Best 8K locksets are properly installed, the figure-8 hole must be in the upper half of the knob. If it is not. change the hand of the lock.

To change the hand of the lock:

Rotate the knob face 180 degrees so that the figure-8 is in the upper half of the knob.

9 Install core

For 6-pin core users only: Slide the spacer — supplied with your 6-pin cores — over the 7-pin throw member (see Figure 11, top right).

Note: If you have ordered 6-pin cores, you will get one spacer per core with your order. Spacers are not supplied with locks.

- 1 Install the throw member into the back of the core as shown in Figure 11, top.
- 2 Insert the control key into the core and rotate the key 15 degrees to the right.

Caution: You must use the blocking plate when installing an 8K lockset to prevent unauthorized access.

- 3 Insert the core and throw member into the knob with the control key as shown in Figure 11, bottom.
- 4 Rotate the control key 15 degrees to the left and withdraw the key.

Caution: The control key can be used to remove cores and to access doors. Provide adequate security for the control key.



Amning: This Manufacturer advises that no lock can provide complete security by itself. This lock may be ted by forcible or technical means, or evaded by entry elsewhere on the property No lock can substitute under a wavenees of your environment, and common sense. Builder's hardware is available in multiple manace grades to suit the application in order to enhance security and reduce risk, you should consul-



Si desea ayuda o información sobre la garanti. Ilame al 1-800-392-5209 ou visite https://dhwsupport.dormakaba.com/hc/en-u

⚠ Advertencia: Este fabricante have saber que no hay cervaduras que puedan proporcionar seguridad completa por si maima: Esta cervadar, puede fallar for sanda o utilizando maima: Esta cervadar, puede fallar for sanda o utilizando maima: este incisa cervado por otra parte del edificio. No hay cervaduras que puedan sustituir precaución, estar al tanto de su entorno y sendido comini. Este fabricante tembrido riverce cervaduras de delirentes quados y rendimientos para ajustante a su aglicación. Para mejoran la seguridad y reducer niesgos, usted debe consultar con un represene necesificados un term enteriescon de severandos.



Pour de l'aide ou des informations sur la garanti Vauillez appeler le 1-800-392-5209 ou visiter https://dhwsupport.dormakaba.com/hc/en-us

▲ Advertissement: Le fabricant tient à vous vivier qu'aucun verrour peup la lui seu d'offrir une sécurité compilé. De verroupue le tre me hors d'était par lo force ou des moynes terinques ou entre viele par fullisation d'une autre entrée sur la propriété Aucun verrour ne peut renglacer les un relitance de voire environnement et le bon sers. Le quincaitère pour le constructer es d'entre existent fiéres les des de performances pour d'ifférentes application. Afin d'augmenter la sécurité et de riduire le risque, vous devriez consulter un serrurier qualifé ou un autri professioné de la sécurité.



Wiring diagram

The diagram below shows how to wire 8KW and 9KW electrified locks.

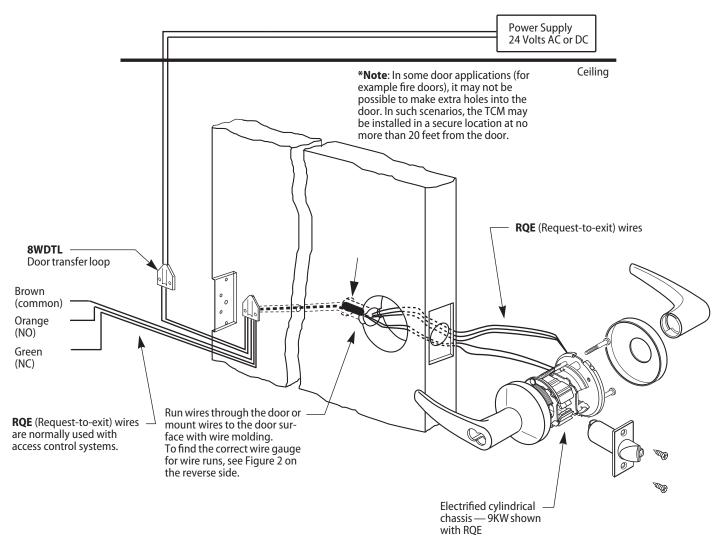


Figure 1—Wiring diagram for 8KW and 9KW electrified locks (9KW with RQE shown)

Electrical requirements

The following table describes the voltage and current specifications for the 8KW and 9KW locks, with RQE (REX) switch, and door monitoring switch.

Unit	Voltage	Current
8KW (RQE not available)	24 volts AC or DC	0.18 amp continu- ous duty
9KW with and with- out RQE	24 volts AC or DC	0.18 amp continuous duty
RQE switch	30 volts AC or DC maximum	0.7 amp inductive 0.7 amp resistive

Minimum gauge wire chart for lock circuits

The chart in Figure 2 helps you find the minimum wire gauge needed for a specific length wire run. It assumes that the lock circuit is made of two conductor cable. The chart also factors in a 15% voltage loss at 24 volts.

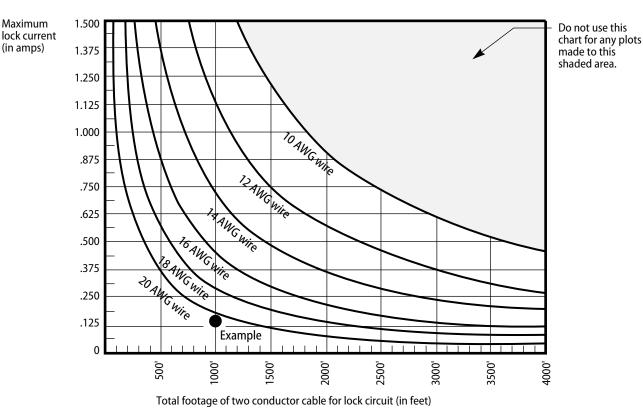


Figure 2—Minimum gauge wire chart for lock circuits

To find the correct gauge wire

- 1 Determine the maximum lock current and find that value on the left side of the chart.
- 2 Determine the total footage of cable to be used in the lock circuit and find that value at the bottom of the chart.
- 3 Locate the intersection of current and footage. The line above or to the right of the intersection shows what minimum gauge wire you need.

Example

▲ Lock current: 0.18 amp maximum

▲ Total wire run: 1000 feet

Wire gauge needed: 20 AWG two conductor cable

Note: For 12 volt locks, double the maximum lock current, then use that value on the left side of the chart.

Installation hints

- 1 Wire gauge (or size) determines how efficiently the lock will operate. Consider wire gauge before installation. To find the recommended minimum wire gauge for all wire runs, see Figure 2.
- 2 Use wire of 20 AWG (gauge) or larger. We do not recommend using a smaller wire gauge than 20 AWG.
- 3 When wiring two or more locks to a single power supply, make sure that the power rating of the power supply is 1 ½ times greater than the sum of the lock's power requirement.

Example

For two locks powered by one supply:

- ▲ Lock 1 (9KW) is rated at 24 volts, 0.18 amps—24 volts \times 0.18 amps = 4.32 volt-amps
- ▲ Lock 2 (45HW) is rated at 24 volts, 0.75 amps—24 volts \times 0.75 amps = 18 volt-amps

Choose a transformer with a rating of at least: $(4.32 \text{ volt-amps} + 18 \text{ volt-amps}) \times 1 \frac{1}{2} = 33.48 \text{ volt-amps}$







Advertencia Este fabricante have sabor que no hay cerraduras que puedan proporcionar seguridad completa por enisma Esta cerradura puede fallar forzandola o utilizando medios siercisco o entrando por otra parte del edificio No hay remaduras que puedan assistar prescución, ester al lamo de sue unomo y sendio común. Este fabricante también Ofre cerraduras de differentes grados y rendimientos para ajustarse a su aplicación Para mejora la seguridad y reducer resigo, sated debe consultar com un cerrager o especializado un for profesioni de Seguridad. Advertissement: Le fabricant itert à vous aviser qu'aucun verroure peut à lui soud offire une sécurité complète Ce verrou peut être mis trus d'état par la force au des moyens échiques ou are évilé par haillaistend une autre entré sur la propriété Aucun verrour ne peut mentionnée le surveillance de voire environnement le fabre seur la upendière pour le construite est offerté soiton différents grades de performance pour différents applications. Alin d'augmenter la sécurité et de robure le risque, vous devinez consulter une reuntime qualifé ou un autre professionel de sécurité. B

Numerics	C
A chassis function conversion for 2–47 function description for 2–7 part numbers and drawings for 2–26 AB chassis function conversion for 2–46 function description for 2–3 part numbers and drawings for 2–11 AC to DC converter 2–56 aligning he chassis and trim 3–23	C chassis cam positioning instructions for 3–24, 3–26 function conversion for 2–46 function description for 2–5 part numbers and drawings for 2–12 cam positioning instructions for C chassis 3–24, 3–26 for G chassis 3–25 for R, S, and T chassis 3–26 certifications and standards 1–1 chassis cover 2–11 to 2–41 chassis screw 2–11 to 2–41 clamp stud 2–11 to 2–41 cores, lubricating 3–22
function conversion for 2–47 function description for 2–7 part numbers and drawings for 2–27 boring jig kit 2–59 bridge bar 2–32 button assembly button release assembly 2–17 push button assembly 2–16 to 2–17, 2–20, 2–23, 2–27, 2–31 reinstalling 3–11 removing 3–10 slotted button assembly 2–14, 2–30 turn button assembly 2–11, 2–26, 2–31 to 2–33	D chassis function conversion for 2–46 function description for 2–3 part numbers and drawings for 2–13 DEL chassis function conversion for 2–48 function description for 2–10 DEU chassis function conversion for 2–48 function description for 2–10 diagrams, exploded see part numbers and drawings documentation package 1–2 door projections 2–54 door transfer loop 2–58

double dummy trim	for G chassis 2–5	removing 3–13
function description for 2–6	for H and HJ chassis 2–3	knob driver 2–11 to 2–15, 2–21 to
part numbers and drawings for	for L chassis 2-6	2-24, 2-26 to 2-31, 2-34
2–55	for LL chassis 2–8	to 2-40
DR chassis	for M chassis 2–8	reinstalling 3–6
function conversion for $2-47$	for N chassis 2–6	removing 3–6
function description for 2–7	for NX chassis 2–6	knob keeper spring
part numbers and drawings for	for P chassis 2–6	reinstalling 3–13
2–28	for Q chassis 2–8	removing 3–12
drawings, of parts	for R chassis 2-4	knobs
see part numbers and drawings	for RD chassis 2–8	part numbers and drawings for
dummy trim	for RH chassis 2–8	2–51, 2–52, 2–54
double 2–6, 2–55	for RZ chassis 2–9	reinstalling 3–4
single 2–6, 2–55	for S chassis 2–5	removing 3–3 to 3–4
DZ chassis	for single dummy trim 2–6	
function conversion for 2–47	for T chassis 2–4	1
function description for 2–7	for W chassis 2–5	L
part numbers and drawings for	for XD chassis 2–9	L chassis
2–29	for XR chassis 2–9	function conversion for 2–46
2-23	for Y chassis 2–6	function description for $2-6$
Г	for YD chassis 2–9	part numbers and drawings for
E	for YR chassis 2–9	2–17 latches
E chassis	for Z chassis 2–9	2–57
function conversion for 2–46	TOP Z CHASSIS Z=9	lead-lined parts 2–50 lever
function description for $2-3$	0	keeper spring 2–53
part numbers and drawings for	G	LL chassis
2–14	G chassis	function conversion for $2-47$
EA chassis	cam positioning instructions	function description for $2-8$
function conversion for 2–47	for 3–25	part numbers and drawings for
function description for 2–8	function conversion for 2-46	2–31
part numbers and drawings for	function description for 2–5	lock chassis
2–30	part numbers and drawings for	aligning 3–23
emergency driver 3–2	2–15	reinstalling in the door 3–10,
exploded diagrams		3–20
see part numbers and drawings	Н	removing from the door 3–8,
par		3–19
F	H and HJ chassis	locking bar 2–12, 2–15
	function conversion for 2–46	locking bar assembly for NX
faceplate marking chisel 2–60 to	function description for 2–3	function 2–19
2–61	key instructions for 3–28	lubricating cores 3–22
function conversion	part numbers and drawings for	labiliteding collegion 22
reversing the solenoid 3–22	2–16	М
function description		
for A chassis 2–7	1	M chassis
for AB chassis 2–3	inside hub and plate assembly 2–11	function conversion for $2-47$
for B chassis 2–7	to 2–41	function description for $2-8$
for C chassis 2–5	10 E 41	part numbers and drawings for
for D chassis 2–3	V	2–32
for DEL chassis 2–10	K	metal oxide varistor 2–56
for DEU chassis 2–10	key instructions for H and HJ chassis	
for double dummy trim 2–6	3–28	N
for DR chassis 2–7	key release cam assembly 2–11 to	N chassis
for DZ chassis 2–7	2-17, 2-19 2 to 24, 2-26	
for E chassis 2–3	to 2–40	function conversion for 2–46
for EA chassis 2–8	reinstalling 3–14	function description for 2–6
		part numbers and drawings for

non-standard strikes 2–49	for T chassis 2–23	lock chassis from the door 3–8,
numbers, for parts	for W chassis 2–24	3–19
see part numbers and drawings	for XD chassis 2–37	outside rose and liner assembly
NX chassis	for XR chassis 2–38	3–19
function conversion for 2–46	for Y chassis 2–25	outside rose assembly 3–8
function description for 2–6	for YD chassis 2–39	plain or button knob 3–4
·	for YR chassis 2–40	sleeve assembly 3–16
0	for Z chassis 2–41	solenoid 3–21
outside hub and plate assembly	plate 2–56	retractor assembly
	projections, from door 2–54	with long catchplate 2-11
2–11 to 2–15, 2–17 to 2–41		2–14, 2–16 to 2–17,
outside rose for Y function 2–25,	0	2-20, 2-23, 2-31
2–39 to 2–40	O chassis	with short catchplate $2-27$,
2-00 to 2-40	function conversion for 2–47	2–30
P	function description for 2–8	without catchplate 2-12 to
	part numbers and drawings for	2–13, 2–15, 2–18 to
P chassis	2–33	2–19, 2–21 to 2–22,
function conversion for $2-46$	2-30	2-24 to 2-26, 2-28
function description for 2–6	п	to 2-29, 2-32 to 2-41
part numbers and drawings for	R	RH chassis
2–20	R chassis	function conversion for $2-47$
part numbers and drawings	cam positioning instructions	function description for $2-8$
for 8W components 2–58 for A	for 3–26	part numbers and drawings for
chassis 2–26	function conversion for 2–46	2–35
for AB chassis 2–11	function description for 2-4	RQE rose liner
for B chassis 2–27	part numbers and drawings for	reinstalling 3–21
for C chassis 2–12	2–21	RZ chassis
for D chassis 2–13	RD chassis	function conversion for $2-47$
for double dummy trim 2–55	function conversion for 2–47	function description for $2-9$
for DR chassis 2–28	function description for 2–8	part numbers and drawings for
for DZ chassis 2–29	part numbers and drawings for	2–36
for E chassis 2–14	2–34	
for EA chassis 2–30	reinstalling	S
for G chassis 2–15	button assembly 3–11	S chassis
for H and HJ chassis 2–16	inside rose and rose liner 3–19	cam positioning instructions
for L chassis 2–17	inside rose assembly 3–8	for 3-26
for latches 2–57	key release cam assembly 3–14	function conversion for 2–46
for LL chassis 2–31	knob driver 3–6	function description for $2-5$
for M chassis 2–32 for N chassis 2–18	knob keeper spring 3–13 knobs 3–4	part numbers and drawings for
for non-standard strikes 2–49		2–22
for P chassis 2–20	lock chassis in the door 3–10, 3–20	single dummy trim
for Q chassis 2–33	outside rose and liner assembly	function description for $2-6$
for R chassis 2–21	3–20	part numbers and drawings for
for RD chassis 2–34	outside rose assembly 3–9	2–57
for RH chassis 2–35	ROE rose liner 3–21	sleeve assembly
for roses and rose rings 2–51	sleeve assembly 3–16	keyed $2-11$ to $2-15$, $2-21$ to
for RZ chassis 2–36	solenoid 3–21	2-24, 2-26 to 2-31,
for S chassis 2–22	removing	2-34 to 2-40
for single dummy trim 2–55 for	button assembly 3–10	keyed sleeve and hub assembly
standard knobs 2–51, 2–52,	inside rose and rose liner 3–18	2–16
2–54	inside rose assembly 3–7	non-keyed $2-11$, $2-13$ to
for standard strikes and strike	key release cam assembly 3–13	2-14, $2-16$ to $2-21$,
	keyed knob 3–3	2–23, 2–25 to 2–27,
	knob driver 3–6	2–29 to 2–33, 2–35 to
boxes 2-49	knob keeper spring 3–12	2–38, 2–41

non-keyed sleeve and driver assembly 2–30 reinstalling 3–16 removing 3–16 solenoid reinstalling 3–21 removing 3–21 reversing for function conversion 3–22 spanner wrench part number and drawing for 3–2	X XD chassis function conversion for 2–47 function description for 2–9 part numbers and drawings for 2–37 XR chassis function conversion for 2–47 function description for 2–9 part numbers and drawings for 2–38
part number for 3–2 using 3–4, 3–7, 3–18 standard strikes and strike boxes 2–49 strike plate locating pin 2–60 to 2–59 support, technical 1–3 T T chassis cam positioning instructions for 3–26 function conversion for 2–46 function description for 2–4 part numbers and drawings for 2–23 technical documentation package 1–2	Y Y chassis function conversion for 2–46 function description for 2–6 part numbers and drawings for 2–25 YD chassis function conversion for 2–47 function description for 2–9 part numbers and drawings for 2–39 YR chassis function conversion for 2–47 function description for 2–47 function description for 2–9 part numbers and drawings for 2–40
technical support 1–3 temperature control module 2–56 transformer 2–56 trim double dummy 2–57 knobs 2–52 latches 2–57 non-standard stikes 2–49 roses 2–51 single dummy 2–57 standard strikes and strike boxes 2–49 troubleshooting questions 3–29 turn blade assembly for Z function 2–36, 2–41 W W chassis function conversion for 2–46 function description for 2–5	Z chassis function conversion for 2–47 function description for 2–9 part numbers and drawings for 2–41
part numbers and drawings for 2–24	