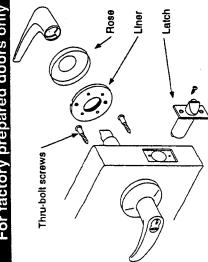
# Installation Instructions for 9K V

# ity Cylindrical Locks

# Position template For factory prepared doors only



- Install the latch so that the bevel on the latch bolt faces ÷
- Adjust the outside rose so that the chassis is centered in the door, install the chassis from the outside of the door,
  - Install the Inside liner, rose, lever and strike.

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For field door preparation and detailed installation instructions, see the following steps.

### Bore two holes and atch tabs Latch face install latch Figure 2 2 High edge of door bevel

Bore a 2 1/1 dlameter hole from both sides of the door, to the center of the door.

Fold the template and place in position

Figure 1

on the high edge of the door bevel.

- of the door that intersects the 2 1/6" hole. Mortise the door edge for the latch face. Drill a 1 diameter hole from the edge ٥i က်
- Install the latch and check the door swing. Latch tabs should project into the 2 1/6" dlameter hole. See flgure 3 in step 3.

frames are used, the latch centerline must

be in line with the center of the strike

preparation.

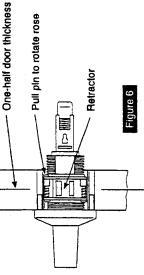
centerline of the lock is 40 %/18". If steel

Note: Suggested height from floor to

Mark the drill points.

- 1. Install the boring Jig (KD303) onto the door drill two 5/16" diameter Install boring Jig and Latch tabs Figure 3 holes egpe D00 က
- and erigage with latch tabs. Make sure the front edge of the Jig is parallel with the door edge.
  - Turn the boring Jig over and repeat steps one and two from the opposite side of the Drill two 6/16" dlameter holes halfway into the door.
- Note: Replace the boring Jig after ten door preparations

# Adjust lockset to door thickness



Retract the rose locking pin and rotate the outside rose liner in or out until the distance from the rose edge to the retractor center-line equals one-half the door thickness. Note 1: For 13/, doors, install the liner until it contacts the chassis screw heads, next rotate counter clockwise (less than 1/, tum) until the rose locking pin engages.

Note 3: Locksets will fit doors 1 3/1" to 2 1/1" thick. (Spacer available Note 2: Make sure the locking pin locks into the rose liner. for 1 % doors.)

## Insert screwdriver blade here Figure-eight core hole Remove inside lever and trim

Jue'

Sleeve

Keeper hole

## For keyed inside levers:

. Remove the core and throw member (if not already removed). See Interchangeable core service instructions on the reverse side.

insert a screwdriver into the figure-eight core hole and into the

3. Using edge of screwdriver, depress the keeper and slide the көөрөг,

1. Insert the spanner wrench to into the lever keeper hole

and depress the keeper.

Silde the lever off.

For inside levers with button or blank face:

Figure 4

3. Using the spanner wrench handle, gently pry the rose

from the liner

- Caution: You will not be able to remove the lever if the screwdriver blade is inserted too far past the keeper. keyed lever off the sleeve.
- 4. Using the spanner wrench handle, gently pry the rose from the liner (see figure 4). 4. Using the spanner wrench, unthread the rose liner and remove.
- 5. Using the spanner wrench, unthread the rose liner and remove.

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Insert the core and throw member into the lever with the control key.

2. Insert the control key into the core and turn the key 15° clockwise.

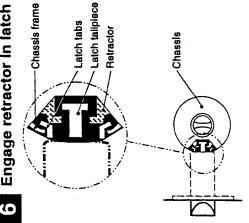
1. Insert the proper throw member into the core. Six pin cores require the number

-7-pln core & throw member

Figure 11

"6" throw member; seven pin cores require the number "7" throw member.

## Engage retractor in latch



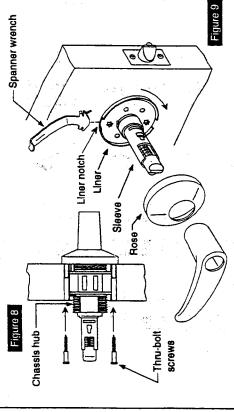
### Figure 7

from the outside. Make sure the latch tabs With the latch in place, install the chassis engage the chassis frame and the latch tallplace engages the retractor.

# Install thru-bolts, liner, rose and lever

Install strike plate

 $\infty$ 



- Install thru-bolt screws in top and bottom Thread the liner onto the chassis hub. through bolt holes.
- notch as shown in figure 9 and tighten the Insert the spanner wrench into the liner liner onto the door. 6

αí

- the rose onto the liner. The rose should fit Slide the rose over the sleeve, then press closely to the door surface.
- With the lever pointing toward the hinges, push the lever on firmly until seated.

### Strike In alignment with the center of the latch bolt. Strike box Door Jamb

mortise the door jamb to fit the strike box and and strike plate. Caution: (The deadlocking plunger of the latch bolt must not enter the strike plate. The plunger deadlocks the latch bolt and prevents forcing the latch when the door is closed.) Excessive maximum door gap of 1/4" is recommended. malfunction of the latchboit assembly. A gap may reduce security and for cause

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

# interchangeable core service instructions

series tockset in good working condition and prolongs its useful life. Periodic lubrication of the interchangeable core maintains the 9K Do not mix lubricants. The following are acceptable lubricants: Use only one lubricant to periodically lubricate a core.

⊕Sdj• Powdered graphite

o lubricate the core with powdered graphite:

- Insert the control key into the core and rotate 15° clockwise. 2. Remove the core and throw member by pulling on the key.
- Insert dry powdered graphite through the key opening face.
- 4. Holding the core in an inverted position, insert and withdraw a key several times to allow the graphite to sift into pin holes.

Figure 12

- insert the core and throw member into the lever with the control
- Caution: Since the control key is a high-security key, make sure to keep it protected. Rotate the control key 15° counterclockwise and remove the key.

### **Door reinforcement** instructions

are used, determine whether the if fabricated hollow metal doors doors are properly reinforced to reinforcement is not adequate, consult the door manufacturer for information on proper support the lock. If door reinforcement.

### Patents:

more of the following patents: Products covered by one or D290085, 4843852, 4262507, U. S. Patents:

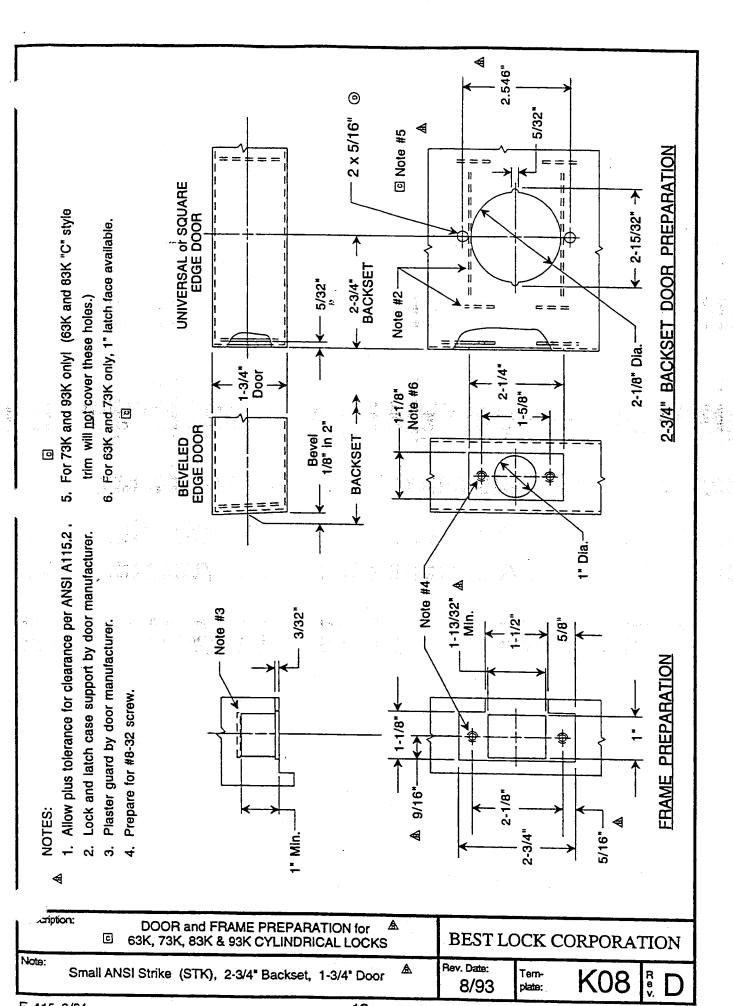
4318558, 4428212, 4496178, 4428570, 4437695, 4778908, 5116170

Canadian Patents:

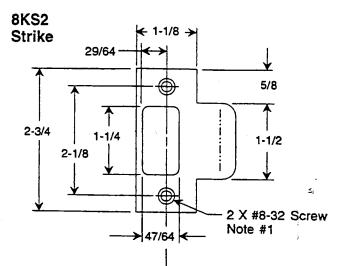
1229358, 1184774, 1194057 Other patents pending.

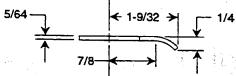
Install core

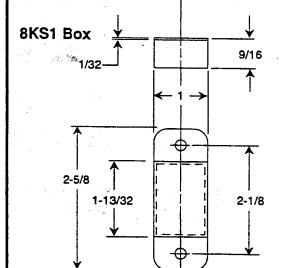
6-pin core & throw member



#### **8K/9K STRIKES & BOXES**

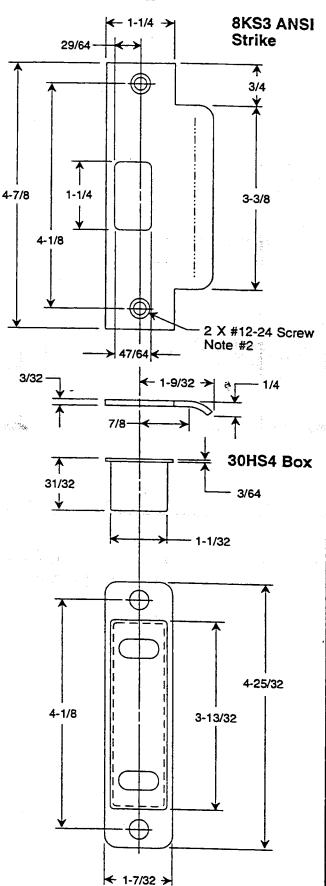






#### Notes:

- Prepare for #8-32 machine screw or for # 8 wood screw. (Combination screw supplied.)
- Prepare for #12-24 machine screw or for #12 wood screw. (Combination screw supplied.)
- 3. Allow plus tolerance for clearance per ANSI A115.2.



#### 9K VARSITY SERIES—FUNCTION DESCRIPTIONS

#### Single keyed functions

	3111	gie keyeu	lunctions				
-	Fund	tion & Diag.	Description	The state of the s			
	(ANS	No.)	Latch	Outside lever		Inside lever	,
_			operated by	locked by	unlocked by	locked by	unlocked by
V	<b>AB</b> F81	Entrance lock	<ul> <li>Rotating the inside lever, <u>QR</u></li> <li>Rotating the outside lever—only when the inside push button is out.</li> </ul>	<ul> <li>Pushing the inside button, <u>QR</u></li> <li>Pushing and turning the inside button. Turning the button keeps the outside lever locked until the button is turned back.</li> </ul>	Turning the key in the outside lever, <u>OR</u> Rotating the inside lever, <u>OR</u> Closing the door—only when the button is not turned.	Cannot be locked	Always unlocked
N	<b>D</b> F86	Storeroom Lock	Turning the key in the outside lever, CB Rotating the inside lever.	Always fixed	Cannot be unlocked	Cannot be locked	Always unlocked
	<b>E</b> F92	Service Station Lock	Rotating the inside lever, <u>QR</u> Rotating the outside lever—only when the inside push button is out. Turning the key in the outside lever.	<ul> <li>Pushing the inside button, <u>OR</u></li> <li>Pushing and turning the inside button. Turning the slotted button keeps the outside lever locked until the button is turned back.</li> </ul>	Turning the key in outside lever, <u>OR</u> Rotating the inside lever, <u>OR</u> Closing the door—all only when the slotted poush button is unlocked, Turning back the slotted button.	Cannot be locked	Always unlocked
चिक्री <sub>च</sub> ुरू च	<b>H</b> F93	Hotel Guest Room Lock	Rotating the inside lever, <u>OR</u> Turning the key in the outside lever—only when the inside push button is out, <u>OR</u> Removing the core with a control key and using a special emergency	Always fixed	Key block feature is released by: Rotating the inside lever, <u>OR</u> Closing the door.	Cannot be locked	Always unlocked
	F93	<b>3</b> 00	key.				1
		. 14	*Pushing the inside button displays an	"occupied" indicator in the outside leve	er and blocks all operating keys.		
• · · · · · · · · · · · · · · · · · · ·	нЈ	Hotel Guest Room Lock	Rotating the inside lever, <u>OR</u> Turning the key in the outside lever—only when the inside push button is out, <u>OR</u> Removing the core with a control key and using a special emergency key.	Always fixed	Key block feature is released by:  Rotating the inside lever, OR Closing the door.	Cannot be locked	Always unlocked
			*Pushing the inside button blocks all of	perating keys, but no "occupied" indica	ator is displayed.		
1	R F84	Classroom Lock	<ul> <li>Rotating the inside lever, <u>OR</u></li> <li>Turning the key in the outside lever, <u>OR</u></li> <li>Rotating the outside lever when not locked by key.</li> </ul>	Turning the key in the outside lever.	Turning the key in the outside lever.	Cannot be locked	Always unlocked
	<b>T</b> F90	Dormitory Lock	Rotating the inside lever, <u>QR</u> Rotating the outside lever when not locked by key or push button.	Turning the key in the outside lever, QR Pushing the button on the inside lever.	Turning the key in the outside lever, OR Rotating the inside lever (only when locked by push button), OR Closing the door (only when locked by push button).	Cannot be locked	Always unlocked
	Do	ubie keyed	d functions*				
	<b>C</b> F88	Corridor Lock*	<ul> <li>Rotating the inside lever, <u>OR</u></li> <li>Rotating the outside lever when not locked by key, <u>OR</u></li> <li>Turning the key in the outside lever.</li> </ul>	Turning the key in the inside lever.	Turning the key in the inside lever.	Cannot be locked	Always unlocked

\*WARNING: Locksets 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 inside lever could be hazardous or even fatal.

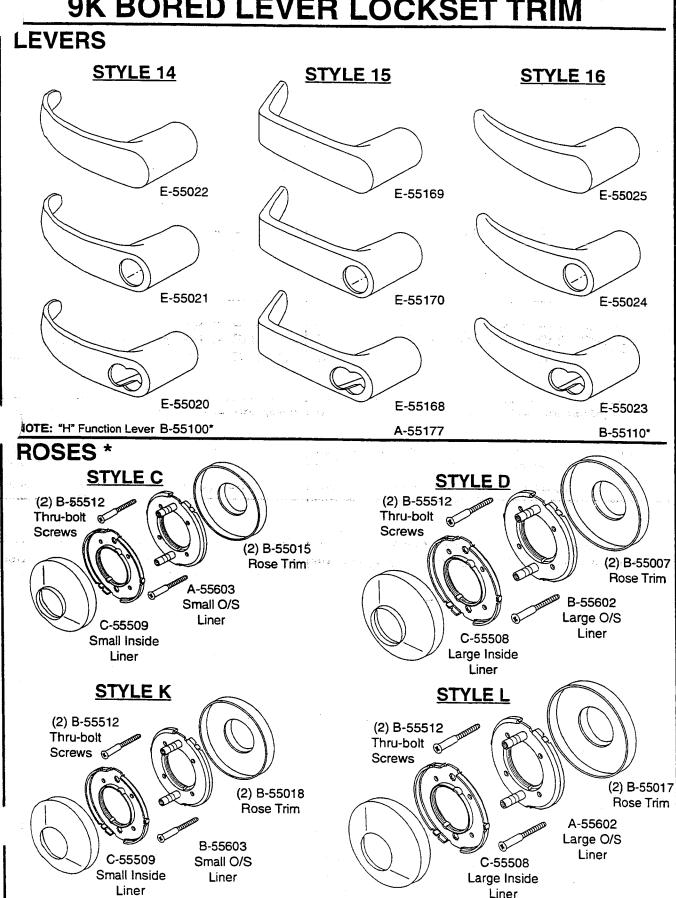
#### 9K VARSITY SERIES—FUNCTION DESCRIPTIONS

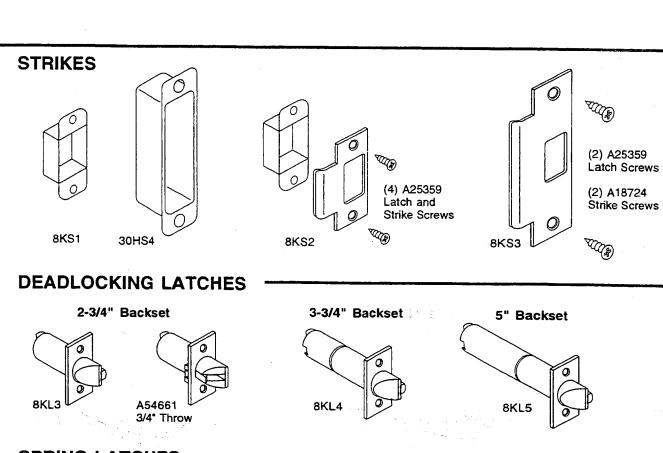
			SERIES—FU			110113
	tion & Diag.	Description				<del>.</del>
(ANSI	No.)	Latch	Outside lever		Inside lever	
		operated by	locked by	unlocked by	locked by	unlocked by
	Storeroom	Rotating the outside lever when	Turning the key in the inside	Turning the key in the inside	Turning the key in	
	Lock*	not locked by key, OR	lever, <u>OR</u>	lever, OR	the inside lever, OR	<ul> <li>Turning the key in the inside lever, <u>OR</u></li> </ul>
	Α	<ul> <li>Rotating the inside lever when</li> </ul>	<ul> <li>Turning the key in the outside</li> </ul>	<ul> <li>Turning the key in the</li> </ul>	Turning the key in	Turning the key in
G		not locked by key.	lever.	outside lever.	the outside lever.	the outside lever.
	[ Y   Y ]					
F91						
		*Turning the key in either the inside (	OR the outside, locks or unlocks both si	ides	<del> </del>	<del></del>
	Communi-	Turning the key in the inside	Turning the key in the outside lever.		T	
	cating Lock*	lever, OR	and they are they are the ball and the ber.	lever.	Turning the key in the inside lever.	Turning the key in the
	آھ	<ul> <li>Turning the key in the outside</li> </ul>			the miside level.	inside lever.
S		lever, <u>OR</u>				
w		Rotating the inside or outside	* * * * * * * * *	÷		
F80		lever (if unlocked).	· %			
	•	*Turning the key in either lever, locks	or unlocks its own lever independently			· · · · · · · · · · · · · · · · · · ·
	Institutional	Turning the key in the inside	Always fixed	Cannot be unlocked		
	Lock*	lever, OR	Tanaya mada	Califici De Milockeu	Always fixed	Cannot be unlocked
W	Α.	Turning the key in the outside	40			
	0000	lever.				
F87						
21 × 32	March 1		The second secon		The second se	Service Control of the Control of th
•						Araba and Araba
Key	less functi	ons			1. The state of th	
	Privacy lock	a Patation the incide laws CD	Dushing the incide by the	<b>.</b>		
VL	Privacy lock	<ul> <li>Rotating the inside lever, <u>OR</u></li> <li>Rotating the outside lever only</li> </ul>	Pushing the inside button.	<ul> <li>Rotating the outside slotted button, OR</li> </ul>	Cannot be locked	Always unlocked
. <b>W</b> .		when the inside push button is out.	57 - 1	Rotating the inside lever, OR		
		The state of the s	and the second s	Closing the door.		The second second second
				5155-19 215 2551.		
	Pagaga	Date to the Op	O			
1/	Passage	Rotating the inside lever, <u>OR</u> Rotating the outside lever.	Cannot be locked	Always unlocked	Cannot be locked	Always unlocked
N	Lock	<ul> <li>Rotating the outside lever.</li> </ul>	A = A + A + A + A + A + A + A + A + A +			
F75						
	F.::4 1 - 1					_
	Exit Lock	Rotating the inside lever.	Always fixed	Cannot be unlocked	Cannot be locked	Always unlocked
NX	<b></b>					
IXX		+ 4				
F75			•			
	Patio Lock	<ul> <li>Rotating the inside lever, <u>OR</u></li> </ul>	Pushing the inside button.	<ul> <li>Rotating the inside lever, <u>OR</u></li> </ul>	Cannot be locked	Always unlocked
_	ሊ	Rotating the outside lever—		<ul> <li>Closing the door.</li> </ul>		,
P		only when the inside push button is out.				
F77		Out				
	Exit Lock	Rotating the inside lever.		·	Cannot be locked	Ahmuratat
	Α.				CONTROL DE RUCKEU	Always unlocked
Y	1 1					
	Single	This is a size to surface		<del></del>		
	Dummy Trim	rnis is a single, surface-mounted le	ever for an inactive door or a non-latchin	ng door.		
1DT	Committy rrim					
	1					
	Double	This is a through half magnetic and				
		mis is a unrough-boil mounted pair	r of matching levers for an inactive doo	or or a non-latching door.		
·	Dummy Trim					
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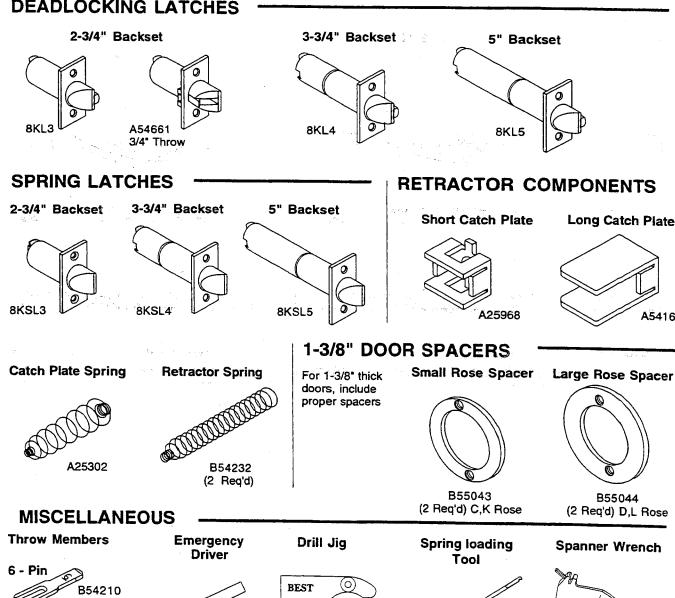
	<del></del>
1 3/8"	9) Door Thick- ness
1	8)Option
626	7)Finish
STK	5)Rose 6)Strike Style Style
၁	5)Rose Style
14	4)Lever Style
AB	3)Function 4)Lever 5)Rose 6)Strike 7)Finish 8)Option 9) Door Code Style Style Style ness
2	1)Series 2)Core Housing
93K	1)Series

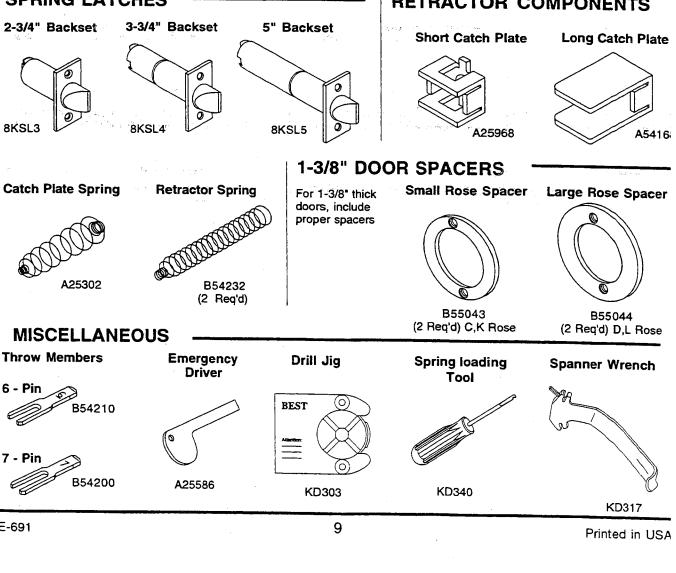
1) Series	3) Function Code	6) Strike Style
93K - 2 <sup>3</sup> / <sub>4</sub> " Backset 94K - 3 <sup>3</sup> / <sub>4</sub> " Backset 95K - 5" Backset	Optional Functions A - Entry B - Office DZ - Closet	STK – 2 <sup>3</sup> / <sub>4</sub> " ANSI S3 – 4 <sup>7</sup> / <sub>8</sub> " ANSI
2) Core Housing	1 1	inis
0 – Keyless 7 – 7 Pin	M – Communicating Q – Exit RD – Special RZ – Closet	<u>. (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>
3) Function Code	1 1 1 1	625 – Oxidized Bronze 625 – Bright Chrome 626 – Satin Chrome
AB - Corridor C - Apartment	1 1	8) Option
E - Service Station G - Store	4) Lever Style	1 1
HJ - Hotel (No Indicator) L - Privacy N - Passage NX - Exit Lock	<ul> <li>14 - Curved Return</li> <li>15 - Contour Angle Return</li> <li>16 - Curved No Return</li> </ul>	Screws TL - Tactile Lever
P – Patio R – Classroom S – Communicating	5) Rose Style	9) Door Thickness
T – Dormitory W – Institutional Y – Exit 1DT – Dummy Trim 2DT – Dummy Trim DEU – Electrically unlocked DEL – Electrically locked	C - 3" Convex D - 3 1/2" Convex K - 3" Convex, No Ring L - 3 1/2" Convex, No Ring	1 3/8" 1 3/4" — 2 1/4" (standard thick-ness)

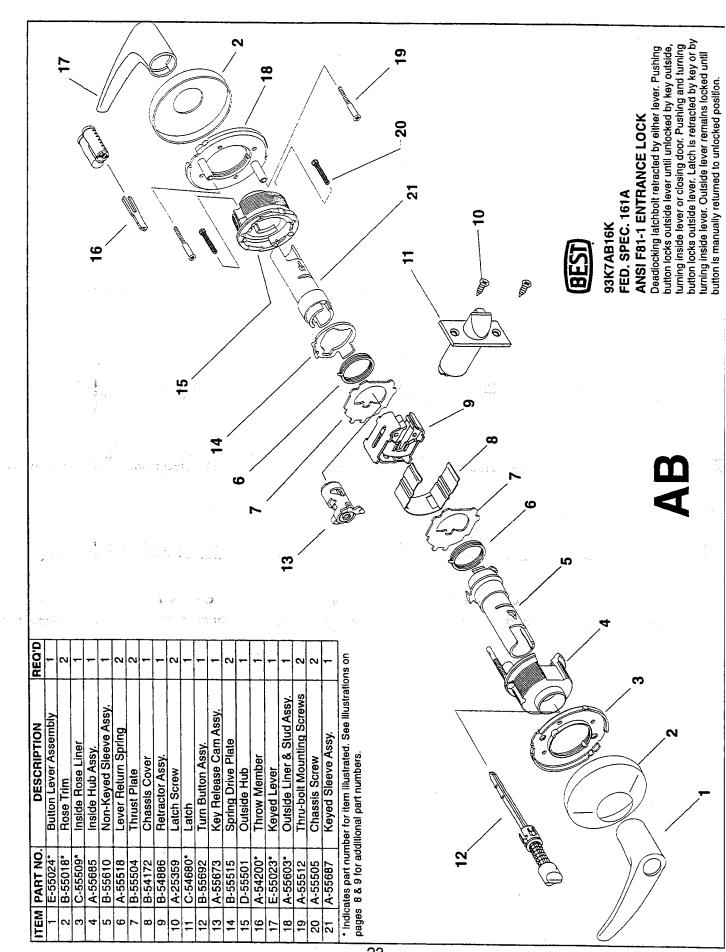


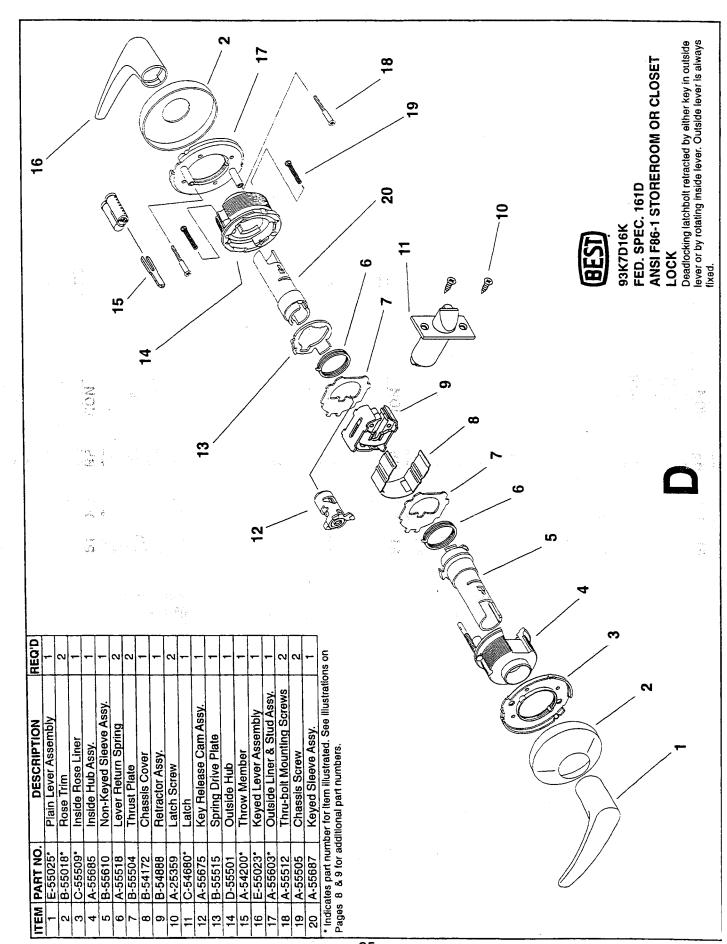


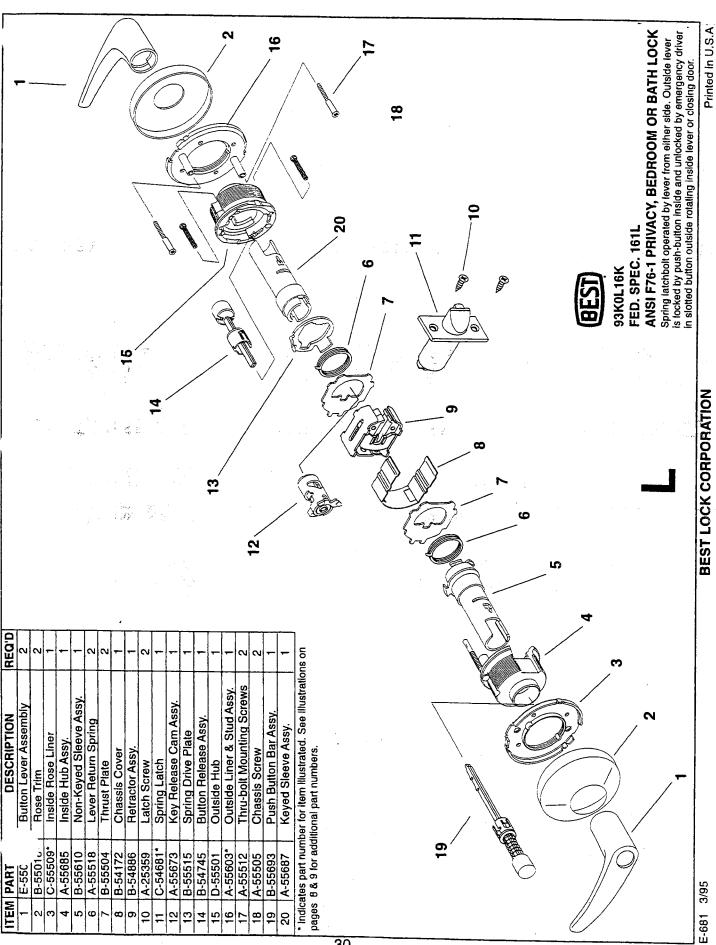






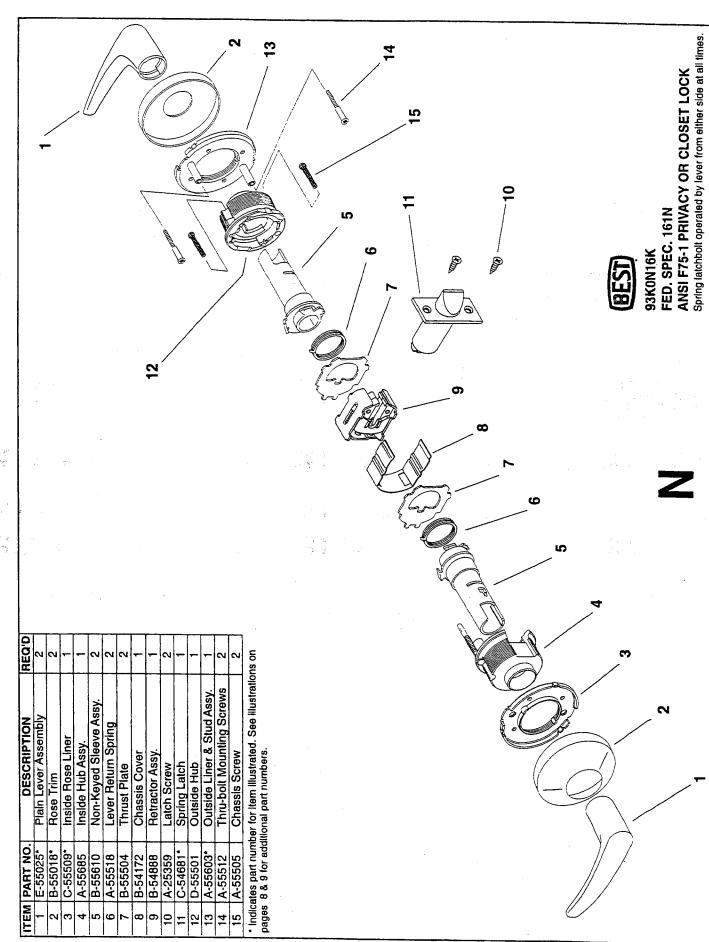


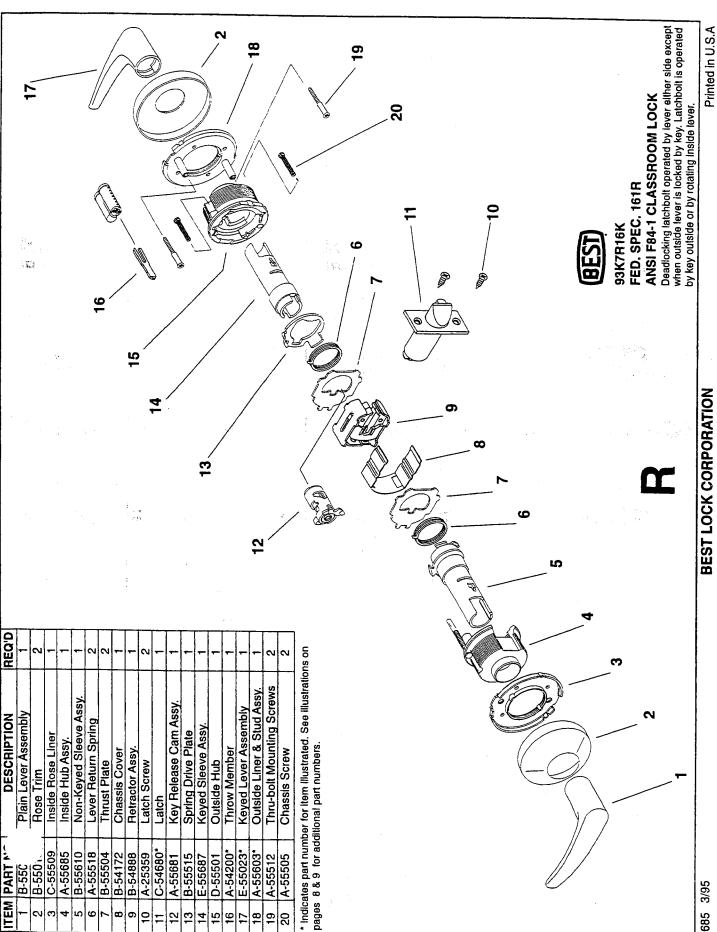




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