





Technical Manual



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A publication of Kaba Access Control 2941 Indiana Ave. Winston-Salem, NC 27105

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Specifications are subject to change without notice.



PEAKS GLOBAL® TECHNICAL MANUAL

Peaks Global® Advantages

- · Blanks and cut keys protected by strong, uncontested utility patents
- Patented key control without added expense of UL437
- Retrofits a wide variety of lock brands
- Combines conventional mortise, rim and key-in-knob cylinders, with Best, Arrow, and Falcon interchangeable cores, and Corbin Russwin, Medeco, Yale, Schlage and Sargent removable cores, all in the same patent protected keying system
- · Maximizes use of existing hardware for substantial cost savings
- Cores can be added to existing non-IC systems without loss of keying capacity
- · Cylinders resistant to key manipulation for safer master keying
- Lowest cost entry into key control market
- Technically simple
- Uses existing key machines
- Distributor supported
- Made in America by world's oldest, largest manufacturer of key control and high security products
- World class factory support





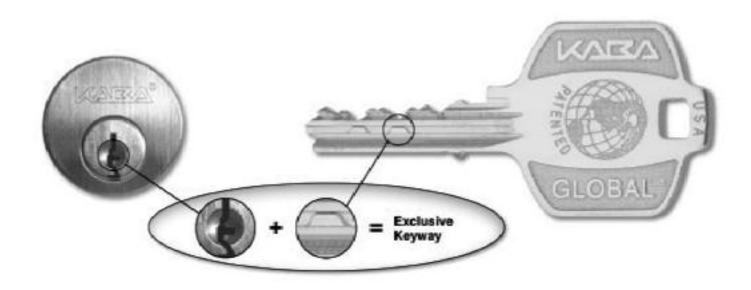


Technical Manual

Section 1: Introduction



Peaks® Global – Providing Dealers with an exclusively unique patented keyway.



Kaba has produced high security key control products for over 25 years. From the strength of that technology comes a new system – Peaks Global. Peaks Global is a dealer exclusive patented key control system available in a limited number of keyways. It allows each Dealer to have a unique keyway so exclusive that there isn't another one like it, anywhere on the globe.

For dealers lucky enough to get one of the Global Exclusive keyways, this means something to call your own. You are the only one who can sell systems based on your keyway. You can even customize the key bow to include your logo and name.

Peaks Global gives you complete control over sales and service of your keyway, and virtually guarantees repeat business from existing customers. It feels good to be the expert – to be in control of a product, and Peaks Global is the product to give you that control.

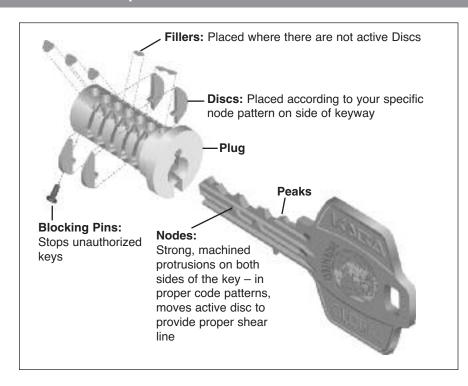
The advantages of Peaks Patented Key Controls

To create Peaks Global, Kaba engineers first utilized the technology made popular by our original Peaks system. Machined nodes were then added to the side of the key for added protection against unauthorized duplication. This utility-patented design provides more security than common design

patents. Your authorization is required to order cut keys, key blanks, and key cylinders, which provides you with complete control – and you and your customers with actual security – not simply the words "Do Not Duplicate." The Peaks Global design eliminates vector forces from users overtorquing keys and using them to turn latches – ensuring trouble free service.

Peaks Global does not require any special training to cut the keys, and utilizes standard Peaks key cutting equipment.

Peaks Global Operation



Security

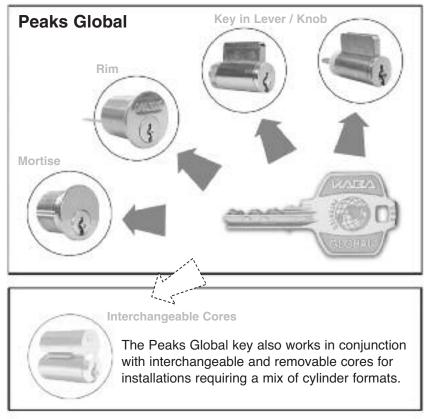
Locking Technologies

Peaks Global offers the added security of three locking technologies and shear lines

Pins – engaged by cut of key
Peaks Technology – engaged by
peaks on top and bottom of key
Disc Technology – engaged by nodes
on side of key

These three technologies work together during operation of the product to make Peaks Global truly unique in its function – a claim backed up with our patents. Unique function and an exclusive keyway combine to create a revolution in patented key control.

Peaks Global Compatibility



The most adaptable Patented Key Control System

Peaks Global provides a flexible system that can be master keyed. Kaba Peaks products are the industry leader in compatibility with all major hardware brands. No matter what hardware is used at a facility, you can use one Peaks Global key to operate all the locks. This allows customers to upgrade to high security by replacing only the cylinder, not the hardware.

The Peaks Global system is designed to provide dealers an exclusive keyway for conventional cylinders. This design includes retrofit cylinders for ANSI mortise, rim, deadbolt, padlock, and key-in-knob / lever designs.

Replacement Cylinders Fit: Adams Rite, Alarm Lock, American Lock, Arrow, Best, Corbin, Detex, Dor-o-matic, Falcon, Jackson Device, Locknetics, LSDA, Marks, Master Padlock, Medeco, Monarch, Olympus, Omnia, PDQ, Precision, Russwin, S. Parker, Sargent, Schlage, Simplex, Unican, Von Duprin, Yale and many more.

Kaba Access Control

Kaba has provided strong, powerful security solutions since 1862, when German businessman Franz Bauer established a locksmith and safe company named Kassa Bauer (Bauer Safe). Over the past 140 years Kaba has continually increased its capabilities and expanded its vision, becoming a world leader in access control solutions and door hardware.

Today, Kaba's worldwide operations serve millions of customers in more than 150 countries with a comprehensive set of products and services that range from safe locks to access control system integration. More than 7,000 Kaba employees, located in 20 countries are working to maintain the highest levels of customer satisfaction as we continue to grow and expand our vision.

Kaba defines the future of access control as Total Access – the integration of all access control devices, from door hardware to mechanical locking systems, to electronic access systems and data collection. The people of Kaba are committed to leading the access control industry.

Terminology Used in This Manual

Professional industry groups, like the Associated Locksmiths of America (ALOA), the Builders Hardware Manufacturers Association (BHMA), and the Door and Hardware Institute (DHI), work to standardize terminology. This manual conforms to the ALOA publication, The *Professional Glossary of Terms Related to Cylinders, Keys and Master Keying*, hereinafter referred to as the Glossary. It also conforms to the keying symbols of the DHI Keying Manual and BHMA standards. The symbols of the Standard Key Coding System are the industry standard accepted by all lock manufacturers.

Resources

Kaba recommends the following resources:

- 1. Door and Hardware Institute publications, available from DHI, 14170 Newbrook Drive, Chantilly, VA, 22021. Tel: 703-222-2010
 - Abbreviations and Symbols as used in Architectural Door and Hardware Schedules and Specifications
 - Sequence and Format for the Hardware Schedule
 - Basic Architectural Hardware
 - Keying Manual
- ALOA publication, available from Associated Locksmiths of America, 3003 Live Oak Street, Dallas, TX 75204. Tel: 214-827-1701
 - Fundamentals of Master Keying

Certain forms used in this manual have been reprinted with permission from Fundamentals of Master Keying. You are free to copy the master keying forms at the back of the manual as is, or alter them. There are many other forms available, from site surveys to specialized bitting lists.

 Kaba Customer Service and Key Records Department are available from Monday through Friday, 7:30 a.m. to 4:30 p.m. Eastern Time to answer questions. For Customer Service please call 1-800-849-8324, Ext. 1. For the Key Records Department, please call 1-800-849-8324, Ext. 285.

Peaks Key Control Systems are the most cost effective, patented high security key control systems available. The Kaba Peaks Global high security cylinder family retrofits most Grade 1 and Grade 2 hardware sold in the US today. Available in key-in-knob, mortise, rim, and interchangeable core configurations. Kaba Peaks Global provides the unique ability to key Peaks Global standard cylinders and Peaks Classic interchangeable core cylinders alike so one Global key will operate both styles of hardware. A series of discs located along both sides of the plug prevent unauthorized keys from operating the cylinder. Special nodes on the key interact with the discs within the plug that are required for proper cylinder operation. Since the uncut key blank itself is patented, Kaba controls blank manufacture and distribution.

Patents

The primary purpose of patented high security locks is the prevention of unauthorized key duplication. Contracts, factory marked blanks, limited distribution, key records controls, and strong utility patents are essential to state-of-the-art key control.

Fabrication of Peaks Global key blanks by anyone other than Kaba is an infringement of utility patents.

Patent Criteria: A novel mechanical feature on the uncut blank, without which the lock will not operate, is the critical mechanical requirement for a utility patent to protect against unauthorized key duplication.

The patent number for Peaks Global is 6,983,630.

Kaba Access Control and Kaba Holding AG will bring legal action against any person or persons producing or contributing to the production of unauthorized Peaks Global keys or key blanks.

Competitive Patents

Brand	Patent Type	Expires
Kaba's Peaks Global	utility	2023
Assa CLIQ	utility	2021
Medeco M3	utility	2021
Kaba L10	utility	2017
Corbin Pyramid	utility	2017
Assa Twin Pro	utility	2015
Schlage Everest	utility	July 2014
Arrow Flex Core	utility	July 2012
Sargent Signature	utility	Dec 2012
Kaba Gemini T	utility	Aug 2012
Medeco Keymark	utility	Jan 2011
Kaba's Peaks Classic	utility	June 2010
Assa Twin V-10	utility	Nov 2008
Kaba Gemini	utility	April 2006
Schlage Primus	utility	July 2005
Medeco Biaxial	utility	expired 2004
Assa Twin 6000 Blank	design	expired 2000
Abloy DiskLock Pro	utility	expired 1999
Medeco Original	utility	expired 1987
Distributor "locksmith" keyways	none	not patented
Commonly called "restricted" keyways	none	not patented

Key Blank Identification Number and Peaks Global Contracts

All Peaks Global key blanks are marked with a unique identification number. The Kaba key control contract and this manual specify certain key control procedures. Breach of contract or failure to abide by factory key records policies can result in loss of the product line.

Contracts specify that:

- 1) The blank ID number may not be removed, stamped-over, or altered in any way;
- 2) Parties under contract may not duplicate any keys without following proper key records authorization procedures;
- 3) Key blanks may not be sold, lent, or given away;
- 4) Proper key records must be kept and authorization forms maintained.

Kaba Peaks Global Quality

Kaba Access Control employs the latest machining techniques to ensure smooth reliable operation throughout a wide variety of cylinders to provide hardware to fit the full spectrum of security needs. Kaba uses high quality brass to manufacture the plug and shell of each cylinder. All Kaba Peaks keys are made of nickel silver which incorporates a large bow capable of receiving stampings and use by physically impaired people. All Kaba Peaks family of reliable cylinders are designed and manufactured to stand up to the heaviest of use over an extended life of many years.

The patented security features of Kaba's Peaks Global Security Cylinders provide new capabilities to the standard pin tumbler lock design without complicating the procedures involved in servicing the cylinder. Patent protected Kaba Peaks keys use standard pin tumbler combination bittings, so standard code and duplicating key machines can cut Peaks Global keys from key blanks that are produced with the node patterns from the factory.



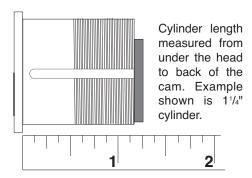


Technical Manual

Section 2: Product Information



6-pin 140



Conventional mortise cylinders are available in 11/8" and 11/4" lengths.

Longer length applications can normally be handled by using small format interchangeable core housings.

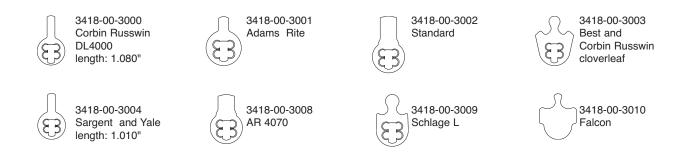
Collars are not included. Please order collars separately.

Cams for conventional mortise cylinders are attached with 4701-98-4118 Loctite® coated screws. One 3418-00-2000 cam cover is placed over the cam before screws are installed.

If cams are changed in the field, use new screws and tighten them firmly.

Please specify cam when ordering. Contact Kaba about other cam requirements. See bottom of this page for mortise cylinder kit.

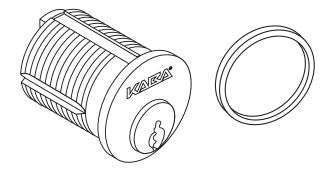
Cams shown below are not for small format interchangeable core housings.



Mortise Cylinder Kits

mortise cylinder kit, 140 6-pin 11/8"

5401-xx-1038 uncombinated xx = Finish



Kit includes: standard, Adams Rite, cloverleaf, Sargent / Yale and Schlage L cams, 5/32" spacer, spare Loctite® coated screws and a cam cover.





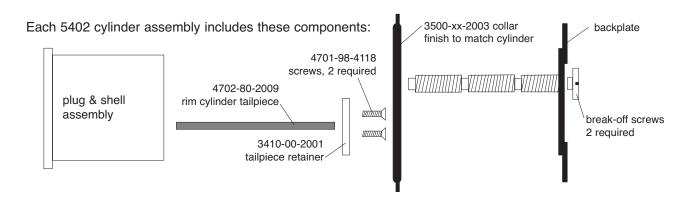






6-pin 140





Key-in-knob cylinder kit

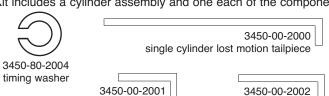
6-pin 140

Universal cylinder kit for cylindrical and tubular locks ("99" kit)

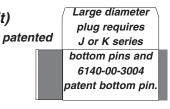
5400-xx-1099 uncombinated

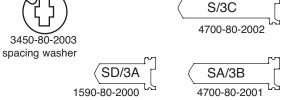
xx = Finish

The screw cap plug retainer accepts original tailpiece and driver assemblies by Arrow, Baldwin, Corbin Russwin, Falcon, LSDA, Sargent, Schlage and others. Kit includes a cylinder assembly and one each of the components shown:



3450-00-2001 3450-00-2002 short double cylinder lost motion tailpiece lost motion tailpiece





The Universal "99" cylinder kit can be used with the following lock types. For details, please refer to the specific line drawing of the product.

Manufacturer	Lock Type	Model #	Manufacturer	Lock Type	Model #
Amerock	See Arrow		Marks	130 series deadlocks	-01
Arrow	H, L, S and W series	-09	Marks	170, 190, 195 series levers	-01
Arrow	M and Q series levers	-09	Marks	210 series knobs	-01
Arrow	M series Ball knobs	-20	Master	ProSeries padlocks	-01
Arrow	Single Cyl. Deadlocks	-90	New Standard	Brass padlocks	-41
Arrow	Double Cyl. Deadlocks	-92		·	
	-		Omnilock	Knob, key by-pass	-17
Cal-Royal	BA grade 2 knobs	-14	Omnilock	Lever, key by-pass	-18
Cal-Royal	CGN grade 1 levers	-18	PDQ	SK, SP, ST levers	-16
Cal-Royal	SL grade 2 levers	-18	PDQ	SV grade 2	-84
Corbin Russwin	CL3800	-01	PDQ	Imported grade 1 levers	-23
Corbin Russwin	CL3300	-20	Sargent	5500 Line grade 2 knobs	-14
Corbin Russwin	CL3400 and CL3600	-11	Sargent	465, 485, 486 single cyl.	
Corbin Russwin	ED8000-A5 / N5 lever trim	-11		deadlocks	-90
			Sargent	464, 484 double cyl.	
Falcon	X series Hana knobs	-33		deadlocks	-92
Falcon	X series knobs, except Hana	-12	Schlage	A series, non-Orbit knobs	-14
Falcon	B series grade 2 levers	-18	Schlage	A series, Orbit knobs	-07
Falcon	F series levers	-17	Schlage	AL series levers	-20
Falcon	N series knobs	-17	Schlage	B single cyl. deadlocks	-90
Falcon	LY grade 1 levers	-23	Schlage	B600, 700, 800	
Falcon	RU grade 1 unit locks	-01		single cyl. deadlocks	-91
Falcon	S series knobs, except Hana	-13	Schlage	B double cyl. deadlocks	-92
Falcon	S series Hana knobs	-33	Schlage	B600, 700, 800	
Falcon	T series levers	-01		double cyl. deadlocks	-93
			Schlage	C & D series grade 1 knobs	-17
Kaba	1411 padlocks	-41	Schlage	C & D series grade 1 levers	-18
LSDA	LS100B, 100P, 100T knobs	-14	Schlage	S series grade 2 levers	-01
LSDA	LX1000 grade 1 levers (1994)	-18	Schlage	PL series padlocks	-01
LSDA	LX1000 grade 1 levers (1998)	-18	Schlage	Old style 45-101 padlocks	-01
LSDA	LH1000 grade 1 knobs	-17			
LSDA	L100 grade 2 levers	-18	Select/Medeco	2000/All-N-One deadlocks	-01
LSDA	600 series clutch levers	-18	Trilogy	2500 by-pass, knob	-17
LSDA	Single cyl. deadlocks	-90	Trilogy	2500 by-pass lever	-18
LSDA	Double cyl. deadlocks	-01	Ultra	7000 Ball knob	-18
Marks	110, 120 series	-14	Von Duprin	22 series exit knob trim	-07

The 5400-xx-1095 cylinder kit with small diameter plug face ("95" kit)

5400-xx-1095 uncombinated

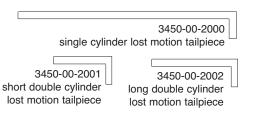
xx = Finish patented

Falcon applications require Falcon tailpiece kit, Kaba part number 4700-00-5109. Falcon, Cal-Royal, LSDA, and Weiser deadlocks require OEM tailpieces.

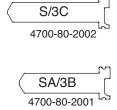
Large diameter plug requires
J or K series
bottom pins and
6140-00-3004
patent bottom pin.

The "95" cylinder kit is used for selected applications which require a <u>small</u> <u>diameter plug face</u>. The "95" kit includes a cylinder assembly and one each of the components shown:









The "95" cylinder kit can be used to make the following. For details, please refer to the specific line drawing of the product.

Manufacturer	Lock Type	Model #	Manufacturer	Lock Type M	odel #
Cal-Royal	LSD single cyl. deadlock	-01	Sargent	2000 exit device trim	-10
Cal-Royal	LSDD double cyl. deadlock	· -01	Sargent	6500 Line	-10
Falcon	D series deadlocks	-01	Weiser	D 9370/9470 series deadlock	s -01
Falcon	X series knobs/unit locks	-21	Yale	5300L grade 2 levers	-95
Sargent	6 Line knobs, except Ball	-10	Yale	5300LN grade 2 levers	-56
Sargent	10 Line levers	-10			

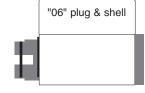
The 5400-xx-1006 for Arrow - LSDA - Schlage key-in-knob cylinders ("06" kit)

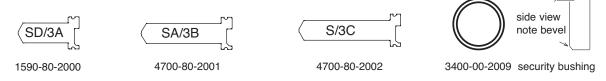
5400-xx-1006 uncombinated

xx = Finish

The "06" cylinder also accepts original Arrow, Ilco, Lori, Marks and Sargent fixed tailpieces.

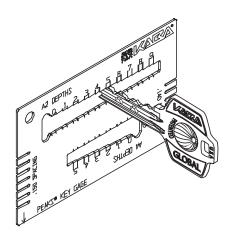
The "06" cylinder kit includes a cylinder assembly and one each of the components shown:



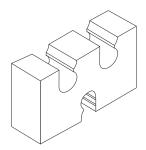


The "06" cylinder kit can be used for the following lock types. For details, please refer to the specific line drawing of the product.

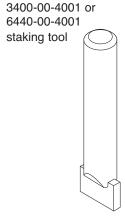
Manufacturer	Lock Type	Model #	Manufacturer	Lock Type	Model #
American Arrow Master	3600 and 3700 series pad M series Tudor and Darrin System 29 padlocks	I	Trilogy	2700 and 3000 levers	-03



3800-00-4050 Peaks Multi-Gage checks .140" and .150" spacing and depth for the A2 and A4 system. Peaks Global cylinders are not available in .150" spacing.



6840-00-3540 staking fixture

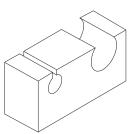


3800-00-3547 capping tool is used with both capping blocks

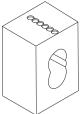


3800-00-3548 ejector tool

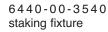




3400-00-4000 staking fixture for conventionals



3840-00-3540 140 capping block (6 holes)







Universal A2 3400-00-5012 Universal A4 3400-00-5004 Schlage RC 6440-00-5002



5400-00-5025 Global Parts Kit With discs, fillers, and blocking pins

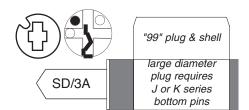
AMERICAN Padlocks - see page 2 - 21

AMEROCK Same as Arrow retrofits listed below

ARROW H, L, S & W knobs and levers, Q and M series levers

5400-xx-1099 uncombinated and use:

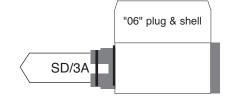
1590-80-2000 SD/3A tailpiece, vertical 3450-80-2003 spacing washer



ARROW M series Tudor and Darrin

5400-xx-1006 uncombinated and use:

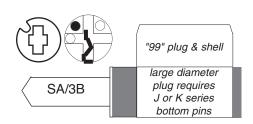
1590-80-2000 SD/3A tailpiece, vertical



ARROW M series Ball knobs

5400-xx-1099 uncombinated and use:

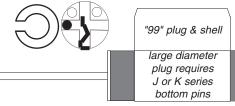
4700-80-2001 SA/3B tailpiece, vertical 3450-80-2003 spacing washer



ARROW Single cylinder deadlocks

5400-xx-1099 uncombinated and use:

3450-00-2000 lost motion tailpiece 3450-80-2004 timing washer



ARROW Double cylinder deadlocks

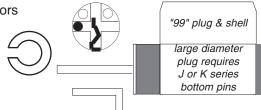
5400-xx-1099 uncombinated and use:

3450-00-2002 long double cylinder lost motion tailpiece standard for 13/4" doors

3450-80-2004 timing washer

3450-00-2001 short double cylinder lost motion tailpiece included for 13/8" doors

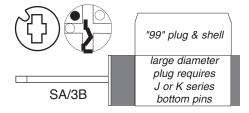
NOTE: File shutter tab slightly on inside cylinder housing to allow clearance for bottom peak.



CAL-ROYAL BA grade 2 knobs

5400-xx-1099 uncombinated and use:

4700-80-2001 SA/3B tailpiece, horizontal 3450-80-2003 spacing washer



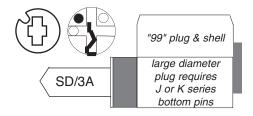
CAL-ROYAL CGN gra

CGN grade 1 levers and SL grade 2 levers

5400-xx-1099 uncombinated and use:

1590-80-2000 SD/3A tailpiece, vertical 3450-80-2003 spacing washer

NOTE: Sometimes the drivehole will not accept the Peaks® tailpiece without first filing it narrower top to bottom.

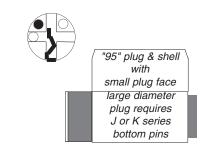


CAL-ROYAL

LSD single cylinder deadlocks LSDD double cylinder deadlocks

5400-xx-1095 uncombinated and use: Cal-Royal tailpieces

Cal-Royal tailpieces are not supplied.

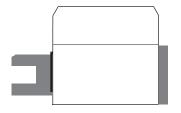


CORBIN RUSSWIN

CK4200 grade 1 knobs, UT5200 Unit locks

5400-xx-1004 uncombinated

Contact Kaba about applications prior to 1972.



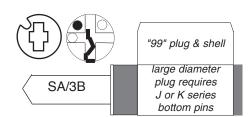
CORBIN RUSSWIN

CL3300 grade 1 levers

5400-xx-1099 uncombinated and use:

4700-80-2001 SA/3B tailpiece, vertical 3450-80-2003 spacing washer or, the original Corbin Russwin tailpiece may be used.

Note: Not for use on G3 exit trim.

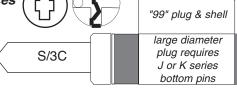


CORBIN RUSSWIN

CL3400, CL3600 grade 1 levers, Lever trim A5, N5 for ED8000 exit devices

5400-xx-1099 uncombinated and use:

4700-80-2002 S/3C tailpiece, vertical 3450-80-2003 spacing washer



If spacer supplied by Corbin Russwin is missing, substitute Kaba 3400-00-2009 security bushing.

CORBIN RUSSWIN

CL3800 grade 2 levers

5400-xx-1099 uncombinated and use:

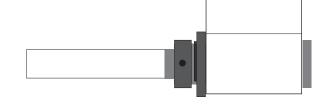
the original Corbin Russwin tailpiece and plastic tailpiece bushing.

"99" plug & shell
large diameter
plug requires
J or K series
bottom pins

Corbin Russwin tailpiece and bushing not supplied.

CORBIN RUSSWIN

CL3900 grade 2 levers 5400-xx-1055 uncombinated

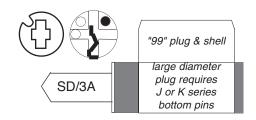


FALCON

B Series grade 2 levers

5400-xx-1099 uncombinated and use:

1590-80-2000 SD/3A tailpiece, vertical 3450-80-2003 spacing washer



FALCON D Series deadlocks; use Falcon tailpieces

5400-xx-1095 uncombinated and use:

Single cylinder functions: Falcon TP-10 tailpiece (A28350-000-00) and retainer TPR-4 (A08385-000-00)

Double cylinder functions: Falcon TP-9 tailpiece (A24350-007-00) and retainer TPR-2 (A14351-000-00)

Falcon tailpieces not supplied.



"95" plug & shell with small plug face large diameter plug requires J or K series bottom pins

FALCON

F Series levers & N Series knobs 5400-xx-1099 uncombinated and use:

1590-80-2000 SD/3A tailpiece, horizontal 3450-80-2003 spacing washer



"99" plug & shell

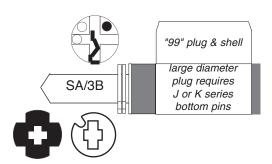
large diameter plug requires J or K series bottom pins

FALCON

LY grade 1 levers (same as early model imported PDQ lever)

5400-xx-1099 uncombinated and use additional Kaba parts:

4700-80-2001 SA/3B tailpiece, vertical 3450-80-2003 spacing washer two 4700-00-4007 metal washers, tailpiece



FALCON

RU Series grade 1 Unit lock

5400-xx-1099 uncombinated and use Falcon parts. Install Falcon driver and tailpiece.

Most functions use Falcon no. 030730-001-30 RU 381 inside cylinder only use Falcon no. 030730-003-30 RU571 only use Falcon no. 030730-005-30

Falcon parts are not supplied.



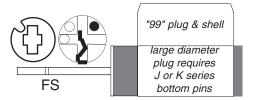
"99" plug & shell

large diameter plug requires J or K series bottom pins

FALCON

S Series grade 2 knobs, except Hana 5400-xx-1099 uncombinated and use:

4700-80-2004 FS tailpiece, horizontal 3450-80-2003 spacing washer



Original Falcon tailpiece TP-2 or TP-3 with Falcon retainer TPR-1 may be used.

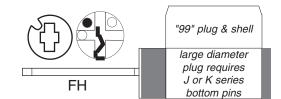
FALCON

S Series grade 2, Hana knobs

5400-xx-1099 uncombinated and use:

4700-80-2006 FH tailpiece, horizontal 3450-80-2003 spacing washer

Or, use Falcon tailpiece TP-3 or TP-4 with Falcon retainer TPR-1.



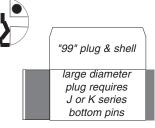
FALCON

T Series, grade 1 levers

5400-xx-1099 uncombinated and use:

Most functions use Falcon no. 030730-001-30 T381 inside cylinder only use Falcon no. 030730-003-30 T571 only use Falcon no. 030730-005-30

Falcon parts are not supplied.



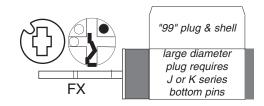
FALCON

X Series grade 1 knobs, except Hana

5400-xx-1099 uncombinated and use:

4700-80-2003 FX tailpiece, horizontal 3450-80-2003 spacing washer

Or, use Falcon tailpiece TP-1, TP-3, or TP-5 with Falcon retainer TPR-1. Falcon parts are not supplied.

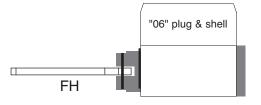


FALCON

X Series grade 1, Hana knobs

5400-xx-1006 uncombinated* and use:

4700-80-2006 FH tailpiece, horizontal 3450-80-2003 Spacing Washer or, use Falcon TP-2, TP-4 or TP-6 with retainer TPR-1



*Note: When ordering cylinder uncombinated, FH tailpiece must be requested. Note: When replacing 7-pin Falcon cylinder, a 6-pin Falcon cylinder spacer must be used. **Falcon parts are not supplied.**

FALCON

Older X Series grade 1 knobs and unit locks with one-piece (capless) knobs and knob hole bushings

5400-xx-1095 uncombinated and use:

3450-80-2003 spacing washer

use existing tailpiece from Falcon cylinder, horizontal. Note: If Falcon tailpiece needs replacement, Kaba FX tailpiece (4700-80-2003) can be used, but must be ordered separately.

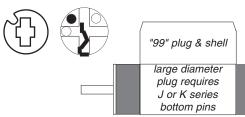
"95" plug & shell with small plug face large diameter plug requires J or K series bottom pins

KABA 1411 padlock

5400-xx-1099 uncombinated* and use:

1410-82-2000 P tailpiece horizontal 3450-80-2003 spacing washer

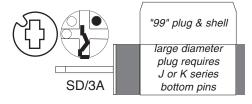
*Note: When ordering cylinder uncombinated, P tailpiece must be requested.



LSDA LH1000 grade 1 knobs

5400-xx-1099 uncombinated and use:

1590-80-2000 SD/3A tailpiece, horizontal 3450-80-2003 spacing washer

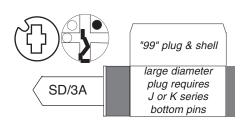


LSDA

LX1000 grade 1 levers, L100 grade 2 levers, 600 series 'clutch' lever (1998)

5400-xx-1099 uncombinated and use:

1590-80-2000 SD/3A tailpiece, vertical 3450-80-2003 spacing washer



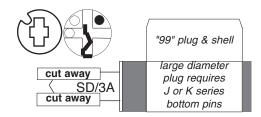
Product Information

LSDA

LX1000 grade 1 levers (prior to 1994) Field modification required.

5400-xx-1099 uncombinated and use:

3450-80-2003 spacing washer 1590-80-2000 SD/3A tailpiece, vertical, modified as shown

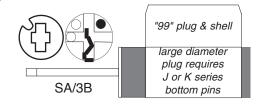


LSDA

(LS)100B, 100P and 100T grade 2 knobs

5400-xx-1099 uncombinated and use:

4700-80-2001 SA/3B tailpiece, horizontal 3450-80-2003 spacing washer



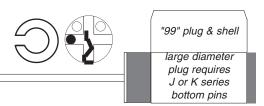
LSDA

Single cylinder deadlocks

5400-xx-1099 uncombinated and use:

3450-00-2000 lost motion tailpiece 3450-80-2004 timing washer or

or use LSDA tailpiece and driver.

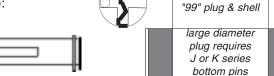


LSDA

Double cylinder deadlocks

5400-xx-1099 uncombinated and use:

LSDA tailpiece assembly.



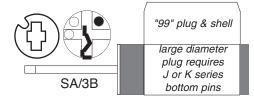
LSDA double cylinder tailpiece assembly not supplied.

MARKS

110, 120 Series cylindrical locks

5400-xx-1099 uncombinated and use:

4700-80-2001 SA/3B tailpiece, horizontal 3450-80-2003 spacing washer



MARKS

130 Series deadlocks

5400-xx-1099 uncombinated and use: Marks tailpieces.

 $1\frac{3}{8}$ " to $1\frac{1}{2}$ " door: Marks tailpiece 1353-L $1\frac{5}{8}$ " to $1\frac{7}{8}$ " door: Marks tailpiece 1354-L 2" to $2\frac{1}{4}$ " door: Marks tailpiece 1355-L

"99" plug & shell

large diameter plug requires J or K series bottom pins

Marks tailpieces are not supplied.

MARKS

170, 190, 195 Series levers, 210 Series knobs

5400-xx-1099 uncombinated and use: Marks tailpieces.

All functions except DA, DC, S: Marks tailpiece A1903-C (C9) Functions DA, DC, S: Marks tailpiece A1903S-C (SC9)

Marks tailpieces are not supplied.

"99" plug & shell

large diameter plug requires J or K series bottom pins



Padlocks - see page 2 - 21

NEW STANDARD

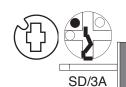
Brass padlock - See Kaba 1411 padlock page 2 - 21

OMNILOCK

Knob, key by-pass

5400-xx-1099 uncombinated and use:

1590-80-2000 SD/3A tailpiece, horizontal 3450-80-2003 spacing washer



"99" plug & shell

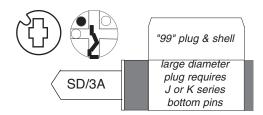
large diameter plug requires J or K series bottom pins

OMNILOCK

Lever, key by-pass

5400-xx-1099 uncombinated and use:

1590-80-2000 SD/3A tailpiece, vertical 3450-80-2003 spacing washer

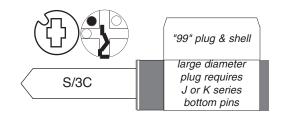


PDQ

SK, SP & ST levers (U.S.A.)

5400-xx-1099 uncombinated and use:

4700-80-2002 S/3C tailpiece, vertical 3450-80-2003 spacing washer

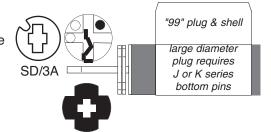


PDQ

Imported SV grade 2 knobs using Ilco 7056 or Lori 1539 cylinders and 3A or SV tailpieces

5400-xx-1099 uncombinated and use:

1590-80-2000 SD/3A tailpiece, horizontal 3450-80-2003 spacing washer two 4700-00-4007 metal washers, tailpiece

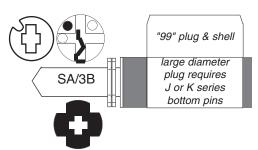


PDQ

Imported grade 1 Levers (prior to U.S.A. Spirit Levers)

5400-xx-1099 uncombinated and use:

4700-80-2001 SA/3B tailpiece, vertical 3450-80-2003 spacing washer two 4700-00-4007 metal washers, tailpiece



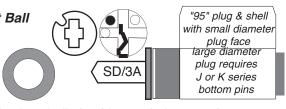
SARGENT

10* Line levers, 2000 exit device trim 6500* Line,6 Line grade 2 knobs, except Ball

5400-xx-1095 uncombinated and use:

4700-00-4008 neoprene washer 1590-80-2000 SD/3A tailpiece, vertical 3450-80-2003 spacing washer

*10 Line, 6500: remove Sargent nylon or plastic spindle bushing and place washer #4700-00-4008 over tailpiece before installing cylinder.

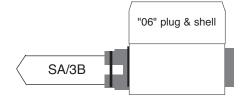


SARGENT

6 Line grade 2 Ball knobs

5400-xx-1010 uncombinated and use:

4700-80-2001 SA/3B tailpiece, vertical 3400-00-2009 spacing washer

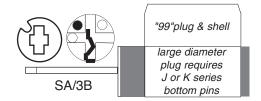


SARGENT

5500 Line imported grade 2 knobs

5400-xx-1099 uncombinated and use:

4700-80-2001 SA/3B tailpiece, horizontal 3450-80-2003 spacing washer

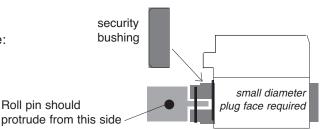


SARGENT

7, 8 & 9 Line grade 1 knobs

5400-xx-1008 uncombinated and use:

3400-00-5108 adapter assembly 3400-00-2009 security bushing

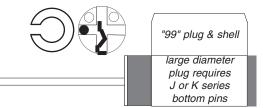


SARGENT

465, 485, 486 single cylinder deadlocks

5400-xx-1099 uncombinated and use:

3450-00-2000 lost motion tailpiece 3450-80-2004 timing washer



SARGENT

464, 484 double cylinder deadlocks

5400-xx-1099 uncombinated and use:

3450-00-2002 long double cylinder lost motion tailpiece standard for 13/4" thick doors

3450-80-2004 timing washer

3450-00-2001 short double cylinder lost motion

tailpiece included for 13/8"

thick doors

NOTE: Slightly file shutter tab on inside cylinder housing to allow clearance for bottom peak.



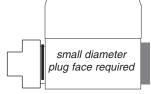
"99" plug & shell

large diameter plug requires J or K series bottom pins

SARGENT

7600 Series Integralock

5400-xx-1076 uncombinated



SCHLAGE

A Series, grade 2 non-Orbit knobs

5400-xx-1099 uncombinated and use:

4700-80-2001 SA/3B tailpiece, horizontal 3450-80-2003 spacing washer



"99" plug & shell

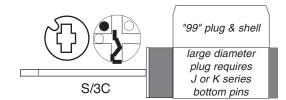
large diameter plug requires J or K series bottom pins

SCHLAGE

A Series, grade 2 Orbit knob

3400-xx-1099 uncombinated and use:

4700-80-2002 S/3C tailpiece, horizontal 3450-80-2003 spacing washer

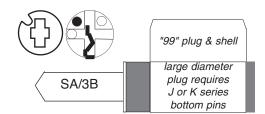


SCHLAGE

AL Series grade 2 levers

5400-xx-1099 uncombinated and use:

4700-80-2001 SA/3B tailpiece, vertical 3450-80-2003 spacing washer



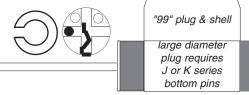
SCHLAGE

B100, B400 E, EB, F160, MD single cylinder

deadlocks, S200 and H locksets

5400-xx-1099 uncombinated and use:

3450-00-2000 lost motion tailpiece 3450-80-2004 timing washer

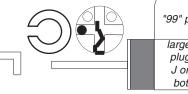


SCHLAGE

B100, B400, E, EB, Fi60 and MD double cylinder deadlocks

5400-xx-1099 uncombinated and use:

3450-80-2004 timing washer 3450-00-2002 long double cylinder lost motion tailpiece for 13/41 thick doors or 3450-00-2001 short double cylinder lost motion tailpiece for 13/81 thick doors



"99" plug & shell

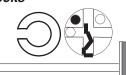
large diameter plug requires J or K series bottom pins

SCHLAGE

B600, B700 and B800 single cylinder deadlocks

5400-xx-1099 uncombinated and use:

3450-00-2000 lost motion tailpiece 3450-80-2004 timing washer



"99" plug & shell

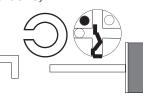
large diameter plug requires J or K series bottom pins

SCHLAGE

B600, B700 and B800 double cylinder deadlocks,

5400-xx-1099 uncombinated and use:

3450-80-2004 timing washer 3450-00-2002 long double cylinder lost motion tailpiece for 13/4" thick doors or 3450-00-2001 short double cylinder lost motion tailpiece for 13/6" thick doors



"99" plug & shell

large diameter plug requires J or K series bottom pins

SCHLAGE

C & D Series grade 1 knobs

5400-xx-1099 uncombinated and use:

1590-80-2000 SD/3A tailpiece, horizontal 3450-80-2003 spacing washer



"99" plug & shell

large diameter plug requires J or K series bottom pins

SCHLAGE

C & D Series, and VandIgard grade 1 levers

5400-xx-1099 uncombinated and use:

1590-80-2000 SD/3A tailpiece, vertical 3450-80-2003 spacing washer



"99" plug & shell

large diameter plug requires J or K series bottom pins

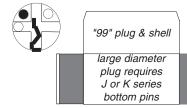
SCHLAGE

S Series grade 2 levers

5400-xx-1099 uncombinated and use:

Schlage parts:

Schlage S series driver S605-228 Schlage cylinder sleeve S605-192 Schlage parts are not supplied.

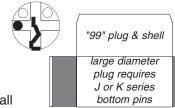


SELECT or MEDECO

2000 Series deadlocks All-N-One deadlocks

5400-xx-1099 uncombinated and use:

no attachments.



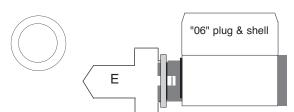
These locks also accept Peaks 5800 or 5900 series small format interchangeable cores.

TRILOGY

2700, 3000 levers

5400-xx-1006 uncombinated and use:

4700-80-2005 E tailpiece, vertical 3400-00-4008 security washer, plug

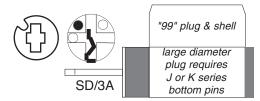


TRILOGY

2500 bypass, knob designs prior to 5-97

5400-xx-1099 uncombinated and use:

1590-80-2000 SD/3A tailpiece, horizontal 3450-80-2003 spacing washer

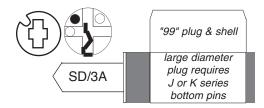


TRILOGY

2500 bypass, lever designs prior to 5-97

5400-xx-1099 uncombinated and use:

1590-80-2000 SD/3A tailpiece, vertical 3450-80-2003 spacing washer



ULTRA

7000 Ball knob

5400-xx-1099 uncombinated and use:

1590-80-2000 SD/3A tailpiece, vertical 3450-80-2003 spacing washer



WEISER

D 9370 and 9470 series deadlocks; use Weiser tailpieces

5400-xx-1095 uncombinated and use:

Weiser tailpiece and retainer.

Weiser parts are not supplied.

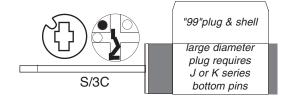


"95" plug & shell with small plug face large diameter plug requires J or K series bottom pins

VON DUPRIN 22 Series exit device knob trim

5400-xx-1099 uncombinated and use:

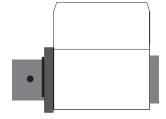
4700-80-2002 S/3C tailpiece, horizontal 3450-80-2003 spacing washer over tailpiece



YALE 6100 and 6200 series Monolocks

Retrofit for Yale No. 1801 cylinder 5400-xx-1055-(Yale monolock) uncombinated

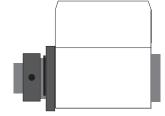
Same as 5400-xx-1054-54 cylinder below, but without rollpin and spacer.



YALE 5400 grade 1 knobs and 5300 grade 2 knobs

Retrofit for Yale No. 1801 cylinder 5400-xx-1054 uncombinated

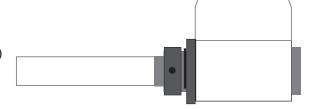
Same as 5400-xx-1055-55 cylinder below, but without tailpiece.



YALE 5400LN grade 1 levers

5400-xx-1055 uncombinated 3425-82-3012 tailpiece 3425-00-4012 retainer pin (1/16" roll pin)

Same as 5400-xx-1054 cylinder above but with tailpiece.



with

YALE 5300L grade 2 levers

Field modification required.

5400-xx-1095 uncombinated then modify

4700-80-2001 SA/3B tailpiece, vertical 3450-80-2003 spacing washer

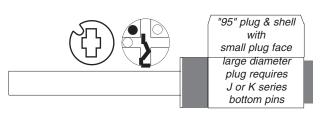
"95" plug & shell small plug face large diameter plug requires J or K series bottom pins cut line

Modify tailpiece using Yale tailpiece as a template.

YALE 5300LN grade 2 levers

5400-xx-1095 uncombinated

3450-80-2003 spacing washer 3450-00-2000 lost motion tailpiece, vertical



Padlocks - Key-In-Knob Cylinders

Note: The Peaks Global system is designed to provide dealers an exclusive keyway for conventional cylinders. The Peaks Global key also works in conjunction with Kaba's Peaks Classic Interchangeable & Removable Cores for installations requiring a mix of cylinder formats.

6-pin 140

Made with the "99"

Made with the "06"

5400-xx-1099 cylinder with Kaba P tailpiece Kaba 1411 or New Standard

The following can be made from 5400-xx-1099 cylinder kit using OEM drivers:

Master ProSeries Use adapter #0298-0628 from Master. Schlage PL series Use padlock driver from Schlage. Schlage old style 45-101 Use padlock driver from Schlage.

The following can be made from 5400-xx-1006 cylinder kit using OEM adapters:

Master System 29 Master Pro Series

American 3600 & 3700

Use 5400-xx-1006 cylinder.

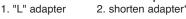
Shorten Medeco adapter .050"

American padlocks

Use with adapter from Master Use adapter #0298-0626 from Master. Use with modified adapter. See below.

Lori adapter may also be modified.







3. notch for key tip and retainer ring

*Dealers have reported that shortening isn't always necessary.

Padlocks – Interchangeable Cores

Note: The Peaks Global system is designed to provide dealers an exclusive keyway for conventional cylinders. The Peaks Global key also works in conjunction with Kaba's Peaks Classic Interchangeable & Removable Cores for installations requiring a mix of cylinder formats.

padlocks with small format interchangeable core

6-pin 140



5800 or 5900 series cores fit any padlock prepared for 6-pin ICore, including:

Abus 381C/45 American 3200 & 3500 series

Best (Except .150" Spacing)

Wilson Bohannon

Falcon

Master Proseries 6400 & 6500

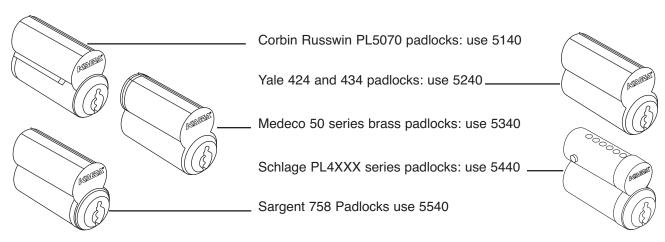
For 6-pin core in 7-pin housing, use spacer 3800-00-3007



padlocks with large format interchangeable cores

Arrow

6-pin 140



Cabinet Locks and Specialty Applications

5800 and 5900 small format interchangeable cores can be installed in most cabinet locks, mailbox locks and switch locks prepped for small format interchangeable core.

Olympus cabinet lock with Corbin Russwin large format interchangeable cores prep: use 6140 series large format interchangeable cores

Olympus 720, 721, 722 & 728 series: use 5800 or 5900 series small format interchangeable cores

Olympus 700 & 800 series cabinet locks: use 5400-xx-1099 with Olympus 78-Kaba-Conv Kit

Schlage CL1000 and CL2000 series: use 5400-xx-1099 with Schlage tailpiece and driver

Small Format Interchangeable Cores (Capped) - 5800 Series

Note: The Peaks Global system is designed to provide dealers an exclusive keyway for conventional cylinders. The Peaks Global key also works in conjunction with Kaba's Peaks Classic Interchangeable & Removable Cores for installations requiring a mix of cylinder formats.

6-pin 140



- brass plug
- brass shell and control sleeve
- capped pin chambers
- individual chambers may be emptied with ejector tool
- 140 capping block / press required
- face of plug is key stop for longer core life
- retrofits Arrow, Best, Falcon, KSP, or Lockwood small format interchangeable cores prep

uncombinated:

uncombinated:

5940-xx-1006

5840-xx-1006 140, 6-pin Uses:

3800-00-4221 individual caps 3425-00-4002 C-ring plug retainer For 6-pin core in 7-pin housing, use spacer 3800-00-3007



Small Format Interchangeable Cores (Spring Loaded) - 5900 Series

Note: The Peaks Global system is designed to provide dealers an exclusive keyway for conventional cylinders. The Peaks Global key also works in conjunction with Kaba's Peaks Classic Interchangeable & Removable Cores for installations requiring a mix of cylinder formats. 6-pin 140



- brass plug
- alloy shell and control sleeve with patented plating and coating
- spring cover retains pins and springs

140, 6-pin

- 6840-00-3540 staking fixture and 6440-00-4001 staking tool required
- face of plug is key stop for longer core life
- retrofits Arrow, Best, Falcon, KSP or Lockwood small format interchangeable cores prep

Uses:

6800-00-2006 6-pin, or 6800-00-2007

7-pin spring covers

3425-00-4002 C-ring plug retainer

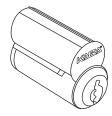
For 6-pin core in 7-pin housing,

use spacer 3800-00-3007



Large Format Interchangeable Cores for Corbin Russwin - 5140 Series

Note: The Peaks Global system is designed to provide dealers an exclusive keyway for conventional cylinders. The Peaks Global key also works in conjunction with Kaba's Peaks Classic Interchangeable & Removable Cores for installations requiring a mix of cylinder formats. 6-pin 140



- brass plug
- alloy shell and control sleeve with patented plating and coating
- spring cover retains pins and springs
- 6840-00-3540 staking fixture and 6440-00-4001 staking tool required
- face of plug is key stop for longer core life
- no restricted control combinations
- This product uses a large diameter plug.

J series bottom pins required for A2 system pinning. K series bottom pins required for A4 system pinning.

Uses:

3425-00-2006 mortise/rim spring cover 6140-00-4002 C-ring plug retainer

uncombinated:

5140-xx-1006 140, 6-pin

Product Information

Large Format Interchangeable Cores for Yale - 5240 Series

Note: The Peaks Global system is designed to provide dealers an exclusive keyway for conventional cylinders. The Peaks Global key also works in conjunction with Kaba's Peaks Classic Interchangeable & Removable Cores for installations requiring a mix of cylinder formats. 6-pin 140



- brass plug
- alloy shell and control sleeve with patented plating and coating
- spring cover retains pins and springs
- 6840-00-3540 staking fixture and 6440-00-4001 staking tool required
- does not require a special extended tip control blank
- face of plug is key stop for longer core life
- retrofits Medeco 31

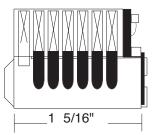
uncombinated:

5240-xx-1006 for Yale 1210 140, 6-pin 5240-xx-1007 for Yale 1220 140, 6-pin Use:

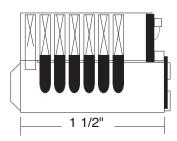
3425-00-2006 mortise/rim spring cover 6240-00-4002 C-ring plug retainer

NOTE: Yale cores are not interchangeable across Yale's product line. It must be determined if you are replacing a Yale 1210, 6-pin core, or a Yale 1220, 7-pin core.

5240-xx-1006 retrofits Yale 1210 in 6-pin housings ONLY



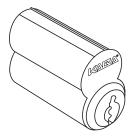
retrofits Yale 1220 in 7-pin housings ONLY



Large Format Interchangeable Cores for Medeco 32 - 5340 Series

Note: The Peaks Global system is designed to provide dealers an exclusive keyway for conventional cylinders. The Peaks Global key also works in conjunction with Kaba's Peaks Classic Interchangeable & Removable Cores for installations requiring a mix of cylinder formats.

6-pin 140



- brass plug
- alloy shell and control sleeve with patented plating and coating
- spring cover retains pins and springs
- 6840-00-3540 staking fixture and 6440-00-4001 staking tool required
- no forbidden or mandatory control combinations
- face of plug is key stop for longer core life

uncombinated: 5340-xx-1006

140, 6-pin

Uses:

6340-00-4012 timing pin 6340-00-4002 C-ring plug retainer

6800-00-2007 7-pin ICore spring cover

Removable Cores for Schlage - 5440 Series

Note: The Peaks Global system is designed to provide dealers an exclusive keyway for conventional cylinders. The Peaks Global key also works in conjunction with Kaba's Peaks Classic Interchangeable & Removable Cores for installations requiring a mix of cylinder formats.

6-pin 140



- brass plug
- alloy shell and control sleeve with patented plating and coating
- spring cover retains pins and springs
- 6440-00-3540 staking fixture and 6440-00-4001 staking tool required
- pins like original small format interchangeable cores; A2 system stacks to 26
- face of plug is key stop for longer core life
- 6440-00-2000 spring cover (same as mortise/rim)
- 6140-00-4002 C-ring plug retainer

5440-xx-1006: uncombinated

Use:

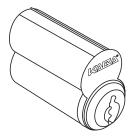
6440-00-2000 spring cover 6140-00-4002 C-ring plug retainer

Note: Dedicated pin kit #6440-00-5002 required: Available for A2 system pinning only.

Removable Cores for Sargent - 5540 Series

Note: The Peaks Global system is designed to provide dealers an exclusive keyway for conventional cylinders. The Peaks Global key also works in conjunction with Kaba's Peaks Classic Interchangeable & Removable Cores for installations requiring a mix of cylinder formats.

6-pin 140



5540-XX-1006: uncombinated

brass plug

- alloy shell and control sleeve with patented plating and coating
- spring cover retains pins and springs
- 6840-00-3540 staking fixture and 3400-00-4001 staking tool required
- pins like original small format interchangeable cores; A2 system stacks to 26
- no forbidden or mandatory control combinations
- face of plug is key stop for longer core life

Use:

6340-00-4012 timing pin

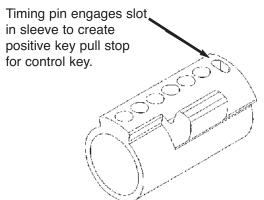
6800-00-2007 7-pin small format interchangeable cores spring cover

6140-00-4002 C-ring plug retainer

top view of core

Install timing pin here.





Product Specifications and Testing Data

For specification purposes, 6-pin Peaks Global products have seven active pin stacks. Texts of product specifications are available upon request.

Mechanical Testing

Testing of 5900 series cores has proven them to be superior to the 5800 series cores. The modern alloys used in the shells and sleeves of the 5900 series have remarkable bearing properties. In addition, Kaba employs a patented two step process of plating and cladding on all 5900 and 5800 sleeves and shells that makes the surfaces of these components harder than conventional brass surfaces. Plugs for both 5900 and 5800 series are made of brass because of its machinability.

Peaks cores and cylinders exceed 500,000 cycles with no measurable wear on shells and sleeves. Keys, keyways and bottom pins show normal wear. When 5900 series cores are cut open, tool marks remain visible in the pin chambers.

Pull tests have been successfully completed on Peaks cores in Arrow, Best, KSP, Corbin Russwin, Medeco and Yale housings. The 5900 cores actually require more force than 5800 series cores. This is due to the behavioral characteristics of the metals. All brass tends to shear, while the alloys employed in the 5900 tend to distend but hold.

Environmental testing

The standard ASTM B117 salt spray (corrosion) test for trim is 200 hours. After over 300 hours, both control and operating keys work in Peaks cores, even before lubrication. After lubrication, the cores feel like new. Chrome finish cores do not discolor. Brass finish cores turn dark with exposure to the elements.

Product in development, warranty and updates

The catalog indicates current product availability. Product is always under development. Contact Kaba Access Control about retrofits not currently shown. The last page of the catalog is a one page summary of pinning components. Warranty and return policies are in the catalog.

Peaks® Global			
Notes			
	-		





Technical Manual

Section 3: Key Cutting and Pinning

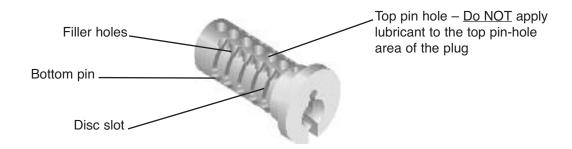


Lubricating the Plug

Apply a small amount of Superlube[™] (5400-00-4202) to fingertip and lightly grease Global Plug. The lubricant acts as a fixative to hold the parts in place during assembly. Only apply lubricant to the following areas:

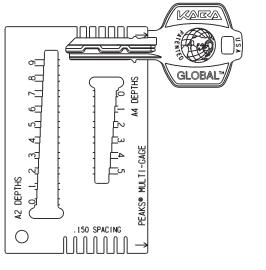
- a. the filler holes
- b. disc slots along the sides of the plug
- c. blocking pin area at the rear of the plug

Note: Do NOT apply any lubricant to the top pin-hole area of the plug.

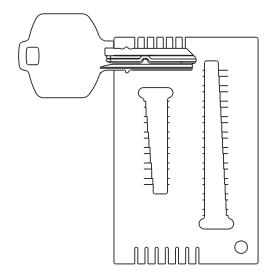


Determining Node and Disc Positions

Use the ".140 spacing" end of the Peaks Multi-Key gauge (part number 3800-00-4050) to determine node locations on your Peaks Global key blank. The node pattern for Peaks Global keys is numbered bow to tip. All other Peaks Global references including key bitting numbers are always read as tip to bow. Record the node pattern for both sides of the key as shown in the illustration.



Key shown has nodes in 1, 4 and 5 positions



Key shown has node in 2 position

Installing Blocking Pins, Discs and Fillers – Conventional Cylinders

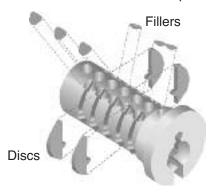
Inserting Blocking Pins

Insert two blocking pins (part number 5800-00-4010) into the blocking pin holes at the rear of the plug on both sides.



Inserting Discs and Fillers

Insert discs (part number 5400-00-4002) into the Global plug disc slots that correspond with each node position on both sides of the key. Orient discs with tabs toward the bottom of the plug. Place appropriate filler plates in the filler holes where no discs are positioned. (Note that the filler plates are concave.)



Global Assembly

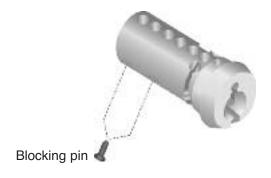
Insert the plug into the housing or cylinder for final assembly.



Installing Blocking Pins, Discs and Fillers – Interchangeable Cores

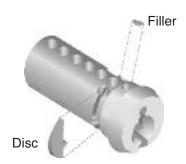
Inserting Blocking Pins

Insert blocking pins in the blocking pin holes on each side closest to the front of the plug that will not interfere with the node pattern on your Peaks Global key. These blocking pins prevent unauthorized keys with an improper node pattern from being fully inserted into the cylinder.



Inserting Discs and Fillers

Cores for small and large format interchangeable cylinders only have disc slots in the first position of the plug on both sides which is due to the internal geometry of these cores. These plugs will always have a disc present in either or both of these first slots. Insert one or two discs (part number 5800-00-4001 for small format plugs or 5400-00-4002 for large format plugs) into the first disc slots as needed to correspond to nodes on the side of the key. Place #1 filler plates in the filler holes where no discs are positioned.

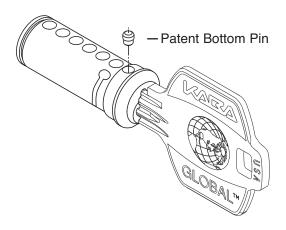


SERVICE NOTE: REFRAIN FROM USING ANY MASTER PINS LESS THAN 0.038 IN NODE LOCATIONS. NO #2 MASTER PINS.

Inserting Peaks Patented Bottom Pins in Small Format Interchangeable Cores

Inserting Peaks Patented Bottom Pin

Insert key into plug. Insert patent bottom pin into plug as shown. Lay assembly aside carefully to ensure pin remains in plug.

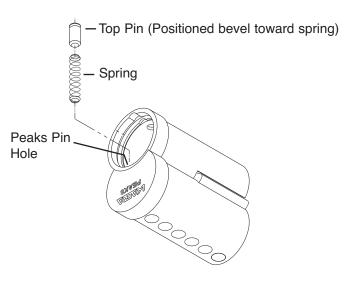


Inserting Peaks Patented Bottom Pins in Small Format Interchangeable Cores

Inserting Peaks Pins

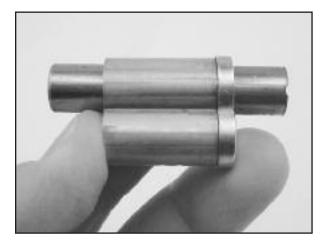
Place the Plug Follower (part number 3400-00-4003) into core (as shown). Position the slot at end of Plug Follower to align with Peaks Pin hole. Insert spring into pin hole.





- Plug Follower with spring resting in slot.

Position top pin into plug follower slot. With pin depressed into pin hole, slide follower half way through plug.



Inserting Peaks Patented Bottom Pins in Small Format Interchangeable Cores

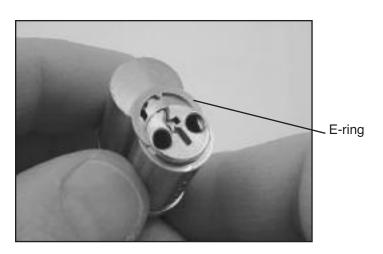
Orient Key and plug assembly as shown with patented bottom pin facing upward. Orient the cylinder assembly as shown with Kaba logo facing down.

Slide key and plug assembly into cylinder assembly – pushing Plug Follower out the back of casing.

Note: Use core to hold cylinder assembly components (cylinder and change key barrel) in place while inserting key and plug assembly.



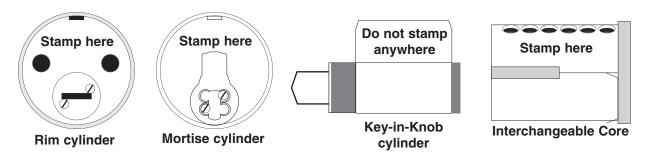
Secure plug in cylinder assembly with E-ring as shown. Tab in center of ring should be positioned to fit notch in base of keyway. Push ring securely into place.



Cylinder Stamping, Marking, Lubrication & Tailpiece Installation

Stamping and Marking

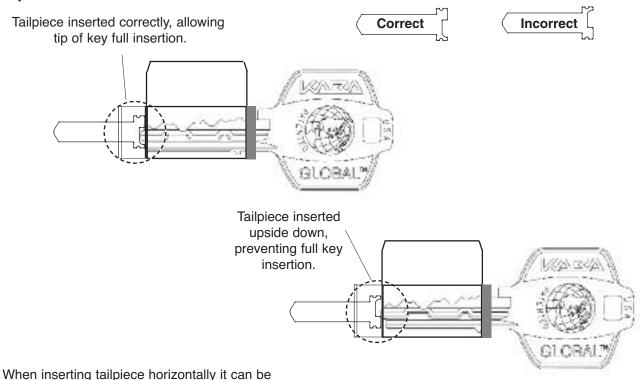
Kaba Access Control recommends marking cylinders with an indelible marker. If stamping or engraving of cast cylinders is unavoidable the stamped or engraved area must be coated with a clear acrylic enamel (Krylon, fingernail polish, etc.). Application by brush is preferable, but spray is acceptable as long as care is taken to reduce overspray. Key-in-knob cylinders should never be stamped. Cores should be stamped on the top half of the shell. Mortise and rim cylinders should be stamped on the back of the shell.



Lubrication

Kaba recommends the use of Superlube™ for all Peaks Global cylinders. It should only be applied sparingly to the slots and indentions where discs and fillers are to be inserted.

Tailpiece Installation



flipped either way for proper operation.

Stops

Peaks Global keys have two stops, a bow stop and a tip stop. The bow stop gauges keys in all current products. The tip stop gauges only in non-domed face small format interchangeable cores made prior to March, 1996. Either stop may be used when code cutting depending on the machine employed.

Most Peaks key sections are paracentric and not designed to be clipped on a key bitting punch. Paracentric keyways are preferred for their enhanced pick resistance. They also produce many more keyway variations than flat bladed keys.

Factory bittings are tip to bow

Factory bitting lists are written tip to bow. When using card-type key machines such as the Ilco Universal II or HPC 1200 CM, it is suggested that keys be cut bow to tip to lessen the effects of the backlash of the rack-and-pinion mechanism. Care must be taken in reversing bittings written as tip to bow.

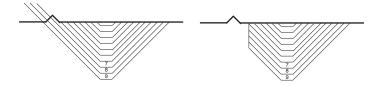
Tolerances and milling cutters

Peaks tolerances are tighter than most other brands. Both depth and spacing must be held within +/- 0.002" for proper operation. Key machines must be kept in precise adjustment. The required cutter angle is 90 degrees for proper key insertion. A cut root flat of .046" is required. The 90MC or equivalent cutter is recommended.

Position next to the Peak

In the position next to the Peak, cuts deeper than a #6 in the A2 system or a #3 in the A4 system require the use of an asymmetrical cutter, such as the #1011.

The 90MC cutter can not be used as it removes the upper Peak when making these deep cuts next to the Peak.



MACS

140 A2 MACS is 8. 140 A4 MACS is 4.

Depth and spacing data

<u>Depths</u>			<u>.140 S</u>	Spacing
A2 0 .318 1 .305 2 .293 3 .280 4 .268 5 .255 6 .243 7 .230 8 .218 9 .205	.318" .297" .276" .255" .234" .213"	1 2 3 4 5 6	from tip .136" .276" .416" .556" .696" .836"	from bow 1.030" .890" .750" .610" .470" .330"

Cutting Keys by Code

Peaks tolerances are tighter than most other brands. Both depth and spacing must be held within +/-0.002" for proper key operation. Key machines should be periodically gauged to maintain tolerances.

Framon #2

Contact Framon at 517-354-5623 regarding a Peaks tip stop. Use the bitting specifications in this manual.

Framon KX-1

The KX-1 cuts 140 - 6 pin keys

Framon FRA-2001

This machine is computer operated and a Peaks vise jaw is required.

HPC Codemax

The following are the correct DSD numbers for Peaks.

140, 6-pin
A2 DSD608, A jaw/red tip stop
A4 DSD612, A jaw/red tip stop

Codemax cuts all keys bow to tip. Peaks systems are written tip to bow. Reverse the bittings on factory lists.

HPC/LaGard 1200CM

HPC manufactures the following A2 system card for Peaks:

140, 6-pin: HPC card number CPKS1 red tip stop, standard A jaw

The modified B vise jaw required to cut Peaks keys on the 1200CM is available from Kaba.

Spacing on HPC cards is bow to tip. When using a factory bitting list, reverse the bittings. In December 1996, HPC began to provide a calibration kit for the 1200, part no. CMB-CK. A spacing calibration key is available from Kaba to check the accuracy of the space adjustment. Because of rack-and-pinion backlash, better keys may be produced by reversing the bittings and cutting bow to tip.

ITL9000

Machines purchased after September 1992 already have Peaks data installed and the key rest milled to accommodate the bottom peak.

ILCO Universal II

Use 0.140" spacing disc. The 0.0125" depth disc is used for A2 system. The 0.021" depth disc is used for A4 system. Use tip stop on the 27B key rest. For 6-pin keys, chamfer the corner of the key rest for bottom peak clearance.

Duplication

Automatic duplicating machines like the ILCO #017 currently require field modification of the vise jaw for the bottom peak. As of August 1992, Rytan machines are manufactured with a divot in the jaw.

Components for Pinning

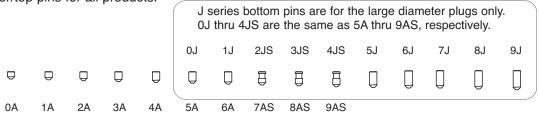
Peaks products may be pinned to the A2 or A4 system. The patent pin stack is built into the face of all small format interchangeable cores. In large format interchangeable cores and conventional cylinders, the patent pins are installed when combinating. Certain products have a large diameter plug and require longer bottom pins. All products use the same top pins.

Pater	nt pins		Spring
	3425-00-3002 7B patent top pin for conventionals	3800-00-3005 patent top pin all cores	W///////
	3800-00-3004 patent bottom pin for all products except those with large diameter plugs	6140-00-3004 patent bottom pin for the Universal 5400-xx-1099, the 5400-xx-1095 key-In-knob and 5140 Corbin Russwin large format interchangeable core	3800-00-4010 stainless steel for all Peaks products
Turnak	Nar nina		

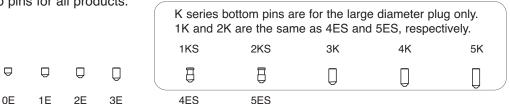
Tumbler pins

Peaks pins are crowned for smooth operation and long cylinder life. Bottom pins are nickel silver. Spool pins are used to increase pick and impression resistance. Bottom pins are .003" shorter than aftermarket replacement pins. Non-original pins will not work properly in Kaba products and their use voids product warranty.

A2 system: Use A series bottom pins for everything <u>except</u> the 5400-xx-1095 key-in-knob, the Universal 5400-xx-1099 key-in-knob cylinder and the 5140 Corbin Russwin large format interchangeable core with <u>large diameter plugs</u>. J series bottom pins are required for products with large diameter plugs. Use B series master/top pins for all products.



A4 system: Use E series bottom pins for everything <u>except</u> the 5400-xx-1095 key-in-knob, the Universal 5400-xx-1099 key-in-knob cylinder and the 5140 Corbin Russwin large format interchangeable core with <u>large diameter plugs</u>. K series bottom pins are required for products with large diameter plugs. Use F series master/top pins for all products.



Spring covers

Spring covers are curved. Install them by flattening with the 3400-00-4001 staking tool.



Universal pin kits

Peaks universal pin kits (3400-00-5012 for A2 and 3400-00-5004 for A4) contain all of the components required to pin any uncombinated cylinder or core, including the 6340-00-4012 timing pin for the 5340 large format interchangeable core for Medeco.

Pin series and uniform stack heights for A2 and A4 systems

product	5400 key-in-knob except 5400-xx-1099 5400-xx-1095	5400-xx-1099 5400-xx-1095 with large diameter plug	5401/5402 conventional mortise and rim	5800 and 5900 I/C	5140 Corbin Russwin R/C with large diameter plug	5240 Yale and 5340 Medeco R/C
A2 system stack total top pins bottom pins	26 B series A series	26 B series J series	31 B series A series	23 B series A series	26 B series J series	26 B series A series
A4 system stack total top pins bottom pins	15 F series E series	15 F series K series	18 F series E series	14 F series E series	15 F series K series	15 F series E series

Pin lengths and material

Kaba bottom pins are .003" shorter than aftermarket replacement pins. Non-original pins will not work properly and void the product warranty.

"S" indicates spool type pins. Bottom pins are nickel silver. Top pins are brass.

bottom pin part number	length	A2	A2	A4	A4
3800-00-3200 -3201 -3202 -3203 -3204 -3205 -3206 -3207 -3208 -3209	.107 .1195 .132 .1445 .157 .1695 .182 .1945 .207 .2195	0A 1A 2A 3A 4A 5A 6A 7AS 8AS 9AS	0J 1J 2JS 3JS 4JS	0E 3E	ОК
3800-00-3401 -3402 -3404 -3405	.128 .149 .191 .212			1E 2E 4ES 5ES	1KS 2KS
6140-00-3205 -3206 3207 -3208 -3209	.2325 .2445 .257 .2695 .282		5J 6J 7J 8J 9J		3K
6140-00-3404 -3405	.254 .275				4K 5K

top pin part number	length	A2	A4
3800-00-4202 -4203 -4204 -4205 -4206 -4207 -4208 -4209 -4210 -4211 -4212 -4213 -4214 -4215 -4216 -4217 -4218 -4219	.075 .0875 .100 .1125 .125 .1375 .150 .1625 .175 .1875 .200	2B 3B 4B 5B 6BS 7B 8BS 9B 10BS 11B 12B 13B 14B 15B 16B 17B 18B	6FS
3800-00-4401 -4402 -4403 -4404 -4405 -4407 -4408 -4409 -4410	.021 .042 .063 .084 .105 .147 .168 .189 .210		1F 2F 3F 4FS 5FS 7F 8F 9F 10F 11F

Pinning Conventional Cylinders

Peaks conventional cylinders are designed to be top loaded. Install a patent bottom pin, small end down, and patent top pin, turned end down, in the patent chamber immediately next to the plug face. In the A2 system a number 7 top pin should be seated above the patent top pin. In A4 use a number 4 top pin above the patent top pin.

Pin stacks

Consult the charts on pages 3-18 and 3-21 for the correct pins. The Universal 5400-xx-1099 and the 5400-xx-1095 key-in-knob cylinder have large diameter plugs and require longer bottom pins and the 6140-00-3004 patent bottom pin. All conventional cylinders use the same top pins. Observe the specified pin stack heights. After loading the pins install a 3800-00-4010 stainless steel tumbler spring in each chamber.

Staking

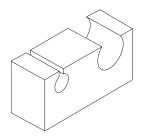
Place the cylinder in the correct cavity of the 3400-00-4000 staking fixture. Set the correct curved spring cover in place over the springs and hold it down with the staking tool.

Using a plastic or rawhide mallet, flatten the spring cover between the flanges. <u>Do not strike the bible flanges</u> on key-in-knob cylinders. Bending or breaking the flanges breaks the patented hard coat on the shells and can lead to corrosion.

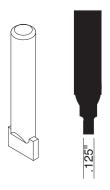
The chrome key-in-knob cylinder shell requires a staking tool and new curved spring cover, 3425-00-2000. Older staking tools had a thick blade. The blade must be narrowed to 0.125" to fit between the bible flanges.

- · Work on a firm bench surface.
- · Strike tools gently with a plastic or rawhide mallet.
- · Do not use excessive force.

These are the tools required for conventional cylinders:



3400-00-4000 staking fixture for conventionals



3400-00-4001 staking tool



The 3400-00-4002 key-in-knob staking tool and flat spring covers are discontinued. Do <u>not</u> use this or similar tools on chrome key-in-knob cylinders.



Pinning Conventional Cylinders

Rekeying Conventional Cylinders

Pry off and discard the spring cover. Rekey and apply a new spring cover. Since all Peaks products are designed to be top loaded, use of a follower for rekeying is optional.

Mortise / rim cylinder screws have a Loctite® coating. If cams or plug retainers are removed, use new screws and tighten them firmly.

Pinning Interchangeable Cores

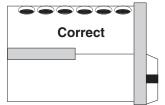
Pin to uniform pin stack height

Insert a key into the core and turn the plug 90 degrees. Extend the control lug into the locked position. Top load the core. Let the bottom pins stop against the plug as shown in figure 1.

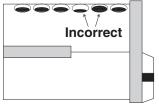
All the stacks should have a uniform height. Dump any incorrect chamber and repin it. When the pin stack heights are uniform, turn the plug and let the pins drop into the plug.



1. Load pins with plug turned.



2. Uniform pin stack heights



3. Errors in 4th and 5th chambers

5800 series capped small format interchangeable cores



Global cores come in .140" spacing only. Place the core loaded with pins only, into the capping block. Insert a tumbler spring, 3800-00-4010, into each chamber by dropping them into the holes in the block.

One chamber at a time, place a cap on top of each spring and tap it in place with the capping tool and a plastic or rawhide mallet until the capping tool is flush against the block. Do not use excessive force. Lubricate discs with Superlube™ synthetic grease.

For 140 cores, a capping press in .140" spacing is available from Kaba.

Rekeving

Place the ejector tool into the hole under the chamber(s) and drive out the pins, spring, and cap with a light tap.

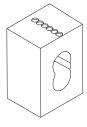
Discard the elements and repin. Always use new springs and caps.

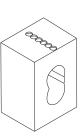


3800-00-3547 capping tool is used with both blocks



3840-00-3540 140 capping block (6 holes)





- · Work on a firm bench surface.
- · Strike tools gently with a plastic or rawhide mallet.
- · Do not use a metal hammer.



Pinning Interchangeable Cores

5900 series spring cover small format interchangeable cores

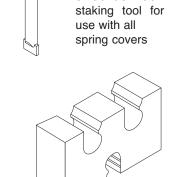


Place core loaded with pins and springs into the correct cavity of the 5940-00-3540 staking fixture. Place the correct spring cover (6-pin length) over the springs.

Set the staking tool on the cover. Gently tap the cover flat with a plastic or rawhide mallet. Do not use excessive force. Superlube™ synthetic grease.

Rekeying spring cover cores: Pry up and discard the spring cover. Dump the old pins and springs. Repin and stake on a new spring cover.

- · Work on a firm bench surface.
- · Strike tools gently with a plastic or rawhide mallet.
- · Do not use excessive force.



3400-00-4001

6840-00-3540 staking fixture for all 5900, 5100 and 5200 series cores

Staking technique

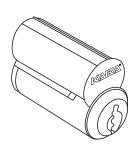
Capping blocks and fixtures are designed to support cores at their waist to prevent sleeves and shells from becoming out-of-round. Working without proper equipment and technique can cause deformation resulting in poor operation, and can void product warranty

- · Use original pins and Kaba equipment.
- · Do not use excessive force.
- · Do not deform or score the shells.

5140 large format interchangeable cores for Corbin Russwin

The 5140 large format interchangeable cores for Corbin Russwin have an A2 system pin stack total of 26.

5140 cores use the *large diameter plug* and require the following components:



A2 system: J series bottom pins and B series top pins

A4 system: K series bottom pins and F series top pins

6140-00-3004 patent bottom pin

3800-00-3005 patent top pin

3800-00-4010 stainless steel tumbler springs

3425-00-2006 mortise / rim / large format interchangeable core spring covers 5400-00-5025 for this kit which would include the following parts (gty's of each

to be determined):

5400-00-4002, lg. active disks (universal key-in-knob and lg. plug large format interchangeable core's)

5800-00-4010, blocking pins

5400-00-4011, #1 filler

5400-00-4012, #2 filler

5400-00-4013, #3 filler

5400-00-4015, #5 filler

Top load the core in the usual manner. Stake in 6840-00-3540 staking fixture.

- · Work on a firm bench surface.
- · Strike tools gently with a plastic or rawhide mallet.
- · Do not use excessive force.

Pinning Interchangeable Cores

5240 large format interchangeable core for Yale

The 5240 large format interchangeable core have an A2 system pin stack total of 26. Use

5240-xx-1006 to retrofit Yale 1210 and 5240-xx-1007 for Yale 1220.

5240 cores use the following components:

A2 system: A series bottom pins and B series top pins

A4 system: E series bottom pins and F series top pins

3800-00-3004 patent bottom pin 3800-00-3005 patent top pin

3800-00-4010 stainless steel tumbler springs

3425-00-2006 mortise / rim spring covers

5400-00-5025 for this kit which would include the following parts (qty's of each to be determined):

5800-00-4001, Ig. active disks (M,R, small plug small format interchangeable core)

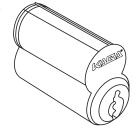
5800-00-4010, blocking pins

5400-00-4011, #1 filler

5400-00-4012, #2 filler

5400-00-4013, #3 filler

5400-00-4015, #5 filler



Top load the core in the usual manner. Stake in 6840-00-3540 staking fixture.

- · Work on a firm bench surface.
- Strike tools gently with a plastic or rawhide mallet.
- Do not use excessive force.

5340 large format interchangeable core for Medeco 32 Series

The 5340 large format interchangeable core have an A2 system pin stack total of 26. The 5340 series requires a timing pin, number 5340-00-4012, which must be installed during pinning. Uncombinated cores do not contain the timing pin. They can be found in the Peaks universal pin kits. <u>Do not omit the timing pin.</u> Omitting the timing pin will make it difficult to install the core.

5340 cores use the following components:

A2 system: A series bottom pins and B series top pins

A4 system: E series bottom pins and F series top pins

6340-00-4012 timing pin

3800-00-3004 patent bottom pin

3800-00-3005 patent top pin

3800-00-4010 stainless steel tumbler springs

6800-00-2007 spring cover, 7-pin

5400-00-5025 for this kit which would include the following parts (qty's of each to be determined):

5800-00-4001, Ig. active disks (M,R, small plug small format interchangeable core)

5800-00-4010, blocking pins

5400-00-4011, #1 filler

5400-00-4012, #2 filler

5400-00-4013, #3 filler

5400-00-4015, #5 filler



top view of core

Install timing pin here.

Top load core in the usual manner. Install 3800-00-3004 patent bottom pin and 3800-00-3005 patent top pin in the patent chamber. Use 3800-00-4010 stainless steel tumbler springs in all chambers.

The 6800-00-2007 7-pin small format interchangeable core spring cover is required to contain all the components. Apply spring cover using Peaks core staking fixture and staking tool.

- · Work on a firm bench surface.
- · Strike tools gently with a plastic or rawhide mallet.
- · Do not use excessive force.

5440 Schlage Removable Core

The 5440 large format removable core has an A2 system pin stack total of 26.

5440 cores use the large diameter plug and require the following components:

A2 system: X series bottom pins and W series top pins

A4 system: A4 pinning not available 6140-00-3004 patent bottom pin 3800-00-3005 patent top pin 6440-00-2000 spring cover

6440-00-4010 stainless steel springs



5540 Sargent Removable Core

The 5540 large format removable core has an A2 system pin stack total of 26. The 5540 has an A4 system pin stack total of 15. The 5540 series requires a timing pin, number 6340-00-4012. Do not omit the timing pin. Omitting the timing pin will make it difficult to install the core.

5540 cores use the following components:

A2 system: J series bottom pins and B series top pins A4 system: K series bottom pins and F series top pins

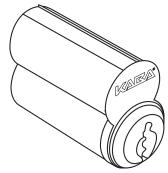
6340-00-4012 timing pin

3800-00-3005 patent bottom pin

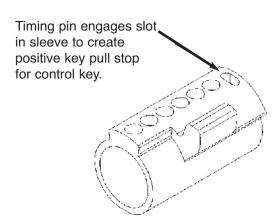
6140-00-3004 patent top pin

3800-00-4010 stainless steel springs

6800-00-2007 spring cover







Calculating Small Format Interchangeable Core – A2 System Pin Stacks

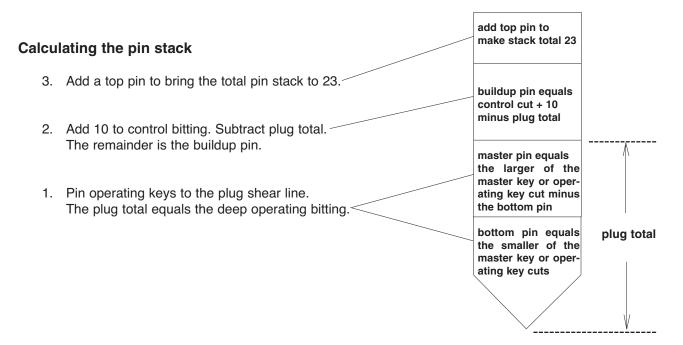
A2 system has ten depths numbered 0 to 9, shallow to deep, respectively. Two step progression must be used to prevent key interchange. In A2 system, parity must be maintained in each position, i.e., only the odd or even cuts may be used in a given pin chamber.

When a key system is written, the choice of a TMK automatically determines the parity pattern. Section 4 of this Manual has forms with all sixty-four parity patterns to use in maintaining a TMK register. This can also be done with a computer and data base program.

The operating and control shear lines are distinct in all positions. All the operating keys work at the plug (operating) shear line. Only the control key works at the control shear line.

Pin to the operating keys first. The shallow cut determines the bottom pin. A master pin makes up the difference between shallow and deep operating cuts. The numerical value of the bottom pin and master pin together is called the "plug total." For example, a #3 bottom pin plus a #4 master pin results in a plug total of 7.

Buildup pins are added to the plug total to make the control key operate at the control shear line. Top pins are added to achieve a uniform pin stack height of 23 in all chambers.



Comparing A2 Pin Stacks

The examples on this page show pinning for key symbol 1AA.

When pinning conventional cylinders, ignore the control bitting. If a top pin of 20 or greater is needed, use two pins of equal length to bring the pin stack to the required height. When an odd numbered top pin is required, such as 21, use two pins that are close in size – 11 and 10 instead of 13 and 8.

For the patent pin chamber in all conventional cylinders, insert the proper bottom and top patent pins, then insert a number 7B top pin.

Pinning for all Peaks products can now be accomplished with only one spring. That stainless steel spring is number 3800-00-4010

control CTR 779631 master AA 951473 change 1AA 593875

Stack height 31

5401-XX-1210 Rim / Mortise

top buildup master bottom

11	11	14	12	12	13	7B
11	11	14	11	12	13	
4	4	2	4	-	2	
5	5	1	4	7	3	
						'

Stack height 23

5800 and 5900 series small format interchangeable core

top control master bottom

6	6	4	7	10	12
8	8	16	8	6	6
4	4	2	4	-	2
5	5	1	4	7	3
	$\overline{}$				

Stack height 26

5400-XX-1206 Key in Knob

top	17	17	12	18	19	11	7B
buildup			11			10	
master	4	4	2	4	-	2	
bottom	5	5	1	4	7	3	
			\checkmark				'

5400-XX-1299 "99" and "95" Key-in-Knob

top	17	17	12	18	19	11	7B	
buildup	-	ı	11	ı	ı	10		
master	4	4	2	4	-	2		
bottom	5	5	1	4	7	3		

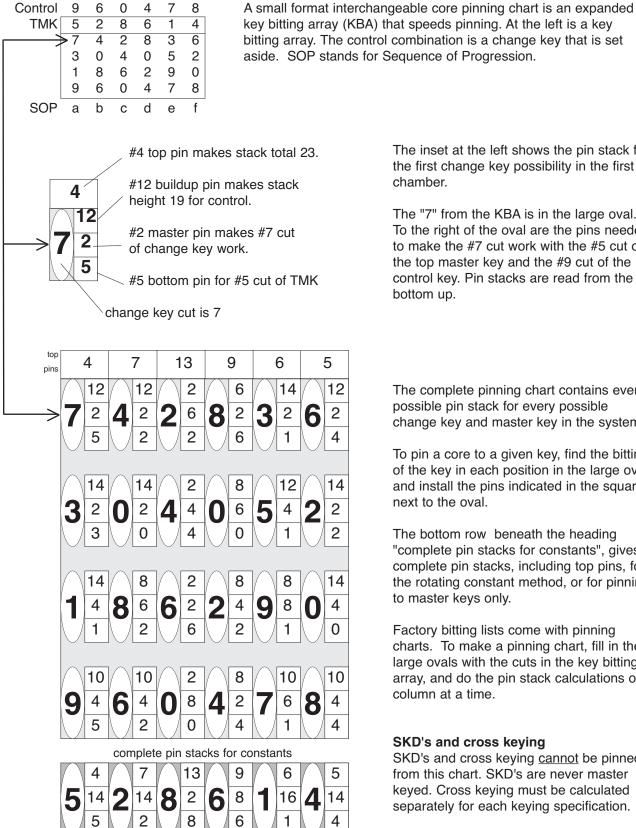
5240-XX-1206 Yale and 5340-XX-1206 Medeco

top	9	9	7	10	13	15	
control	8	8	16	8	6	6	
master	4	4	2	4	-	2	
bottom	5	5	1	4	7	3	

5140-XX-1206 Corbin Russwin large format interchangeable core

top	9	9	7	10	13	15	
control	8	8	16	8	6	6	
master	4	4	2	4	-	2	
bottom	5	5	1	4	7	3	
				$\$	$\$	\checkmark	1

A2 System Small Format Interchangeable Core Pinning Charts



The inset at the left shows the pin stack for the first change key possibility in the first chamber.

The "7" from the KBA is in the large oval. To the right of the oval are the pins needed to make the #7 cut work with the #5 cut of the top master key and the #9 cut of the control key. Pin stacks are read from the bottom up.

The complete pinning chart contains every possible pin stack for every possible change key and master key in the system.

To pin a core to a given key, find the bitting of the key in each position in the large oval and install the pins indicated in the squares next to the oval.

The bottom row beneath the heading "complete pin stacks for constants", gives complete pin stacks, including top pins, for the rotating constant method, or for pinning to master keys only.

Factory bitting lists come with pinning charts. To make a pinning chart, fill in the large ovals with the cuts in the key bitting array, and do the pin stack calculations one column at a time.

SKD's and cross keying

SKD's and cross keying cannot be pinned from this chart. SKD's are never master keyed. Cross keying must be calculated separately for each keying specification.

Calculating Small Format Interchangeable Cores A4 Pinning Stacks

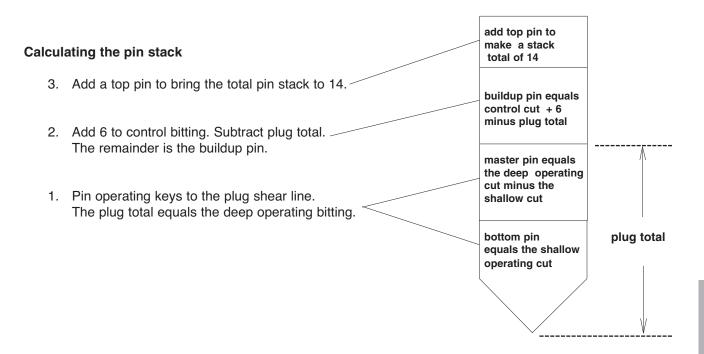
A4 system has six depths numbered 0 to 5, shallow to deep, respectively. This is a single step progression system. <u>Because there is no parity in the A4 system, key interchange between systems in the same keyway cannot be prevented.</u>

The operating and control shear lines are distinct. All the operating keys work at the operating (plug) shear line. Only the control key works at the control shear line.

Pin to the operating keys first. The shallow cut determines the bottom pin. A master pin makes up the difference between shallow and deep operating cuts. The numerical value of the bottom pin and master pin together is called the "plug total." For example, a #1 bottom pin plus a #4 master pin results in a plug total of 5.

Buildup pins are added to the plug total to make the control key operate at the control shear line. Top pins are added to achieve a uniform pin stack height of 14 in all chambers.

The control dimension, or thickness of the control lug, is a multiple of the increment. The increment is 0.021" while the control dimension is 0.21". Because the control lug is 6 increment units thick, the control shear line is 6 units higher than the operating shear line.



Comparing A4 Pin Stacks

The examples on this page show pinning for key symbol 1AA.

When pinning conventional cylinders, ignore the control bitting. If a top pin of 12 or greater is needed, use two pins of equal length to bring the pin stack to the required height. When an odd numbered top pin is required, such as 15, use two pins that are close in size – 8 and 7 instead of 11 and 4.

For the patent pin chamber in all conventional cylinders, insert the proper bottom and top patent pins, then insert a number 4F top pin.

Pinning for all Peaks products can now be accomplished with only one spring. That stainless steel spring is number 3800-00-4010

control CTR 153042 master AA 204153 change 1AA 315103

Stack height 18

5401-XX-1210 Rim / Mortise

top	7	8	6	8	6	7
buildup	8	9	7	9	7	8
master	1	1	1	-	5	-
bottom	2	0	4	1	0	3

Stack height 14

5800 and 5900 series small format interchangeable core

top control master bottom

7	3	5	8	4	6
4	10	4	5	5	5
1	1	1	ı	5	-
2	0	4	1	0	3
					$\overline{}$

Stack height 15

5400-XX-1206 Key in Knob

top	
buildup	
master	
bottom	

6	7	10	7	10	6	4F
6	7	-	7	-	6	
1	1	1	ı	5	•	
2	0	4	1	0	3	
\ /	\ /	\ /	\ /	\ /	\ /	,

5400-XX-1299 "99" and "95" Key-in-Knob

top buildup master bottom

)	6	7	10	7	10	6	4F
)	6	7	-	7	-	6	
•	1	1	1	-	5	-	
	2	0	4	1	0	3	<u> </u>
							'

5240-XX-1206 Yale and 5340-XX-1206 Medeco

top control master bottom

)	8	4	6	9	5	7	
	4	10	4	5	5	5	
•	1	1	1	-	5	-	
	2	0	4	1	0	3	

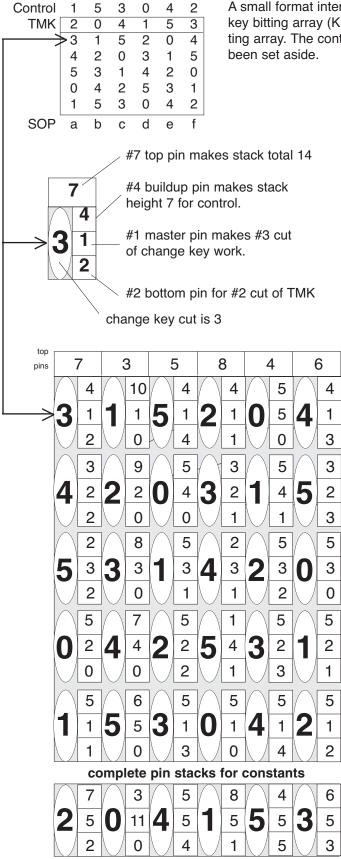
5140-XX-1206 Corbin Russwin large format interchangeable core

top control master bottom

ор	8	4	6	9	5	7	
ol	4	10	4	5	5	5	
er	1	1	1	-	5	-	
m	2	0	4	1	0	3	

A4 Keying is not available for the 5440 series cylinders

A4 System Small Format Interchangeable Core Pinning Chart



A small format interchangeable core pinning chart is an expanded key bitting array (KBA) that speeds pinning. At the left is a key bitting array. The control combination is merely a change key that has been set aside.

The inset at the left shows the pin stack for the first change key possibility in the first chamber.

The "3" from the KBA is in the large oval. To the right of the oval are the pins needed to make the #3 cut work with the #2 cut of the top master key and the #1 cut of the control key. Pin stacks are read from the bottom up.

The complete pinning chart contains every possible pin stack for every possible change key and master key in the system.

To pin a core to a given key, find the bitting of the key in each position in the large oval and install the pins indicated in the squares next to the oval.

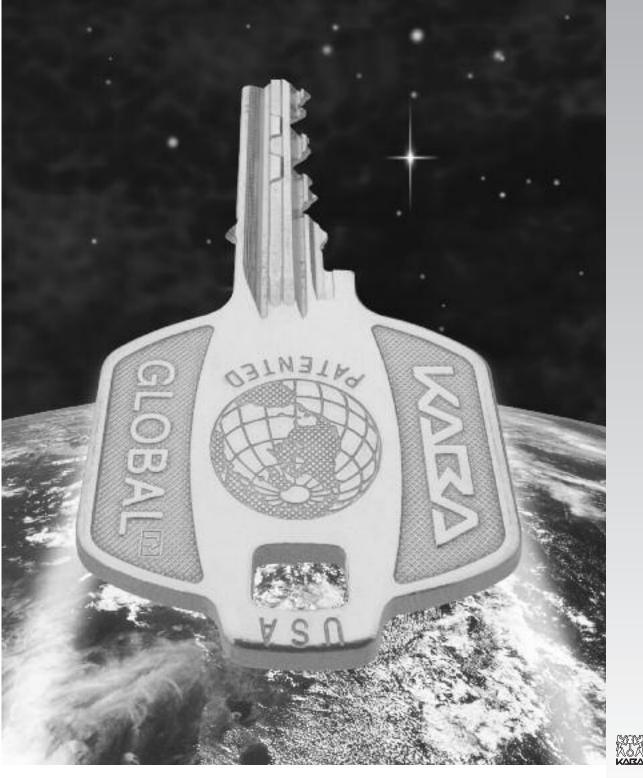
The bottom row beneath the heading "complete pin stacks for constants", gives complete pin stacks, including top pins, for the rotating constant method, or for pinning to master keys only.

Factory bitting lists come with pinning charts.

SKD's and cross keying

SKD's and cross keying <u>cannot</u> be pinned from this chart. SKD's are never master keyed. Cross keying must be calculated separately for each specification.

Peaks Global			
Notes			





Technical Manual

Section 4: Key Control & Record Keeping



Introduction

Peaks Global contracts specify that:

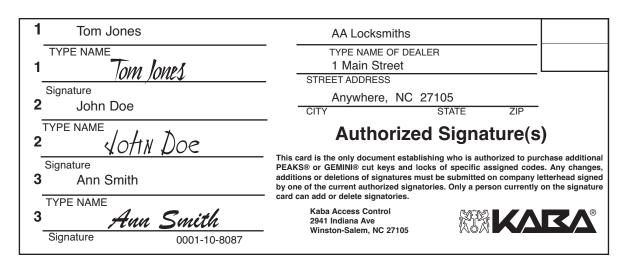
- 1) The key blank identification number may not be removed, stamped-over, or altered in any way;
- 2) Dealers can only duplicate keys bearing their own blank ID number, and must refuse to copy others;
- 3) Only cut keys may be sold; key blanks may not be sold, lent or given away;
- 4) Proper key records must be kept and authorization procedures observed.

Poor record keeping can be a serious liability. Overall, end users respond favorably to professional record keeping practices when they understand that they exist for their protection.

Authorized Signature Card

The authorized signature card records the key system's physical location and signature specimens of the persons authorized to order locks and keys from Kaba.

A completed signature card is required to initiate any factory key system. It registers the system to a specific dealer and is used to verify signatures on original letters of authorization when subsequent orders are placed. Below is a sample of a properly completed signature card.



Dealer Systems – Authorization Procedures

Always meet the minimum requirements for authorization on a Peaks system:

- 1) Know who the end user is.
- 2) Know who has authority to order more locks or keys.
- 3) Be able to prove that you have furnished locks and keys only to authorized persons.

Authorization procedures for ordering Peaks keys and locks should be uniform and simple. Here are several suggestions for procedures:

- 1. Obtain signed purchase orders or letters of authorization for all Peaks locks and keys. Check the signature on the purchase order or letter against the signature card on file.
- 2. Design your own form and obtain signatures upon receipt of Peaks locks and keys. The signature card on file is used to confirm the identities of persons signing for materials.
- 3. Furnish customer Peaks Global cards to present as authorization, or to use with a letter for additional protection.

Adding / Deleting Names on the Signature Card for Factory Key Systems

1. Current Signatories

Only a person currently on the signature card can add or delete others.

a. Transfer of Authority Letter

This is a letter written by the Dealer to change the signature card. It names the person(s) being added to or deleted from the signature card. It must be signed by someone currently on the signature card and submitted with signature samples for the person(s) being added. The following is a sample of such a letter.

Sample Letter

January 1, 2005

AA Locksmith 1 Main Street Winston-Salem, NC 27105

Kaba Access Control 2941 Indiana Ave Winston-Salem, NC 27105

Gentlemen:

I am on the signature card for Peaks Global system # P001. Please add Brad Kaszer and Stewart Levine to the list of authorized signatories, and remove my name.

Enclosed is a new signature card signed by Mr. Kaszer and Mr. Levine.

Sincerely,

John Doe

enc: signature card

A Transfer of Authority Letter must:

- 1) identify the system by Register number;
- 2) name the person or persons being added or deleted from the signature card;
- be accompanied by signature samples of any persons added;
- 4) be signed by one of the <u>current signatories</u>.

It is very important to positively identify the key system by its Register Number.

2. No Current Signatories

a. Declaration of Authority Letter

The declaration letter validates a new signature card when the original persons on the card are no longer available. It is written by the factory to protect both the dealer and the factory from fraudulent claims of authorization. Contact Kaba if this form is required. This letter is completed by the person claiming authority for the key system.

The Initial Order for a New Key System

Subsequent Orders against an Existing Key System

Factory Systems Require a Letter of Authorization

The letter of authorization, written and signed by an authorized signatory of the dealer, is required before the factory can start production. The letter authorizes the factory to furnish Peaks keys or cylinders as requested. The factory will not accept faxes or photocopies of these letters.

Letters of authorization can be written in two ways: 1) detailing the keys and cylinders to be ordered; or 2) referring to a separate, attached purchase order or list.

Here is an example of a detailed letter.

January 1, 2005

AA Locksmith 1 Main Street Winston-Salem, NC 27105

Kaba Access Control 2941 Indiana Ave Winston-Salem, NC 27105

I am an authorized signatory for Peaks Global key system # P001. I authorize you to furnish:

200 Master Keys

Sincerely,

YOTIN DO

John Doe

This example refers to a separate order.

ary 1 2005 Winsto

January 1, 2005

1 Main Street Winston-Salem, NC 27105

AA Locksmith

Kaba Access Control 2941 Indiana Ave Winston-Salem, NC 27105

I am an authorized signatory for Kaba Peaks Global key system # P001. I authorize you to furnish the keys and cylinder on the attached order.

Sincerely,

John Doe

enc: purchase order #621

Please do not send another signature card to authorize a subsequent order.

The signature card is used only once with the initial order to register the system.

Dealer written key systems

Dealers should follow the same authorization procedures as Kaba for adding and deleting names on the signature card.

Writing the Key System Expansion Specification

Expansion information is essential for accurately planning a key system. Expansion should include the installed portion of the key system and planned future growth.

The key system expansion should be furnished in clear terms. For example, a three level system may be described as follows:

Furnish a new grand master key system. Plan for a top control key. Provide for eight master keys with up to forty changes each. Provide for twelve changes directly under the grand master.

Or,

1 Grand Master x 1 Control x 8 Masters x 40 Changes / Master plus 12 Grand Changes

Questions regarding the design and generation of key systems may be directed to Kaba Key Records Department.

The Standard Key Coding System

The following key symbols are the lock industry standard, used by manufacturers, BHMA, DHI and ALOA. They should be used when specifying any master keyed system. The symbols are constructed as follows:

Abbreviation	on Key type	Symbolized by	Symbols or "keysets"
GGMK	great grand master key	GGM	GGM
GMK	grand master key	single letter	A, B, C, T
MK	master key	pair of letters	AA, AB, CC, BA, TR
CK	change key	letters and numbers	AA1, AB29, 17AA, SKD1

One level of keying - the most secure keying

Locks are never master keyed, but keyed alike (KA) or keyed different (KD). If you have two cylinders keyed to SKD1, it is a keyed alike group.



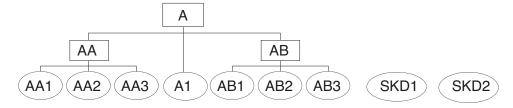
Two levels of keying - simple master key system

Consists of a Master and change keys. Master key is named with an identical pair of letters, AA, BB, CC, etc. The change key numbers go **in front of** the letter pair.



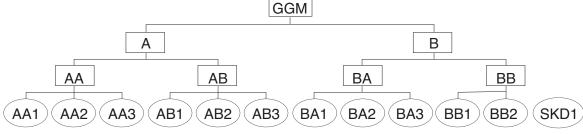
Three levels of keying - grand master key system

Consists of a Grand Master and multiple Master keys under the Grand. Change key numbers go <u>after</u> the letter pair. The first letter of the master key symbols is the grand.

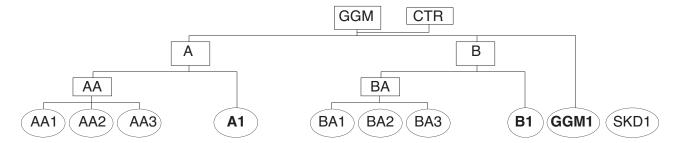


Four levels of keying - great grand master key system.

Consists of a Great Grand Master with multiple Grand Master "systems" under it. Change key numbers go **after** the letter pair.



Change keys directly under higher level master keys take the name of their associated master key and add numbers after the letter(s). SKD's, if used, are considered part of the system.



CTR is the symbol for a control key. A top control key, capable of operating all the cores in a system, is shown in the schematic at the same level as the top master key.

Cross keying

Although sometimes required, cross keying, either controlled or uncontrolled, should be discouraged. Cross keying greatly reduces the keying capacity of a system, severely limits the security of the cross keyed cylinder and makes the key system less flexible. Whenever possible, alternate solutions to cross keying should be explored.

If cross keying is required, each set's operating parameters need to be defined. The expressions can be written as follows: XAA1 oby AA1, AA2, AA, A (oby = operated by)

In the second example above, the "X" after the cylinder designation indicates that there is no change key (CK). It should be noted that cross keying requirements need to be defined at the time bittings are being generated. Cross keyed cylinders are labeled with the "X" symbol.

Additional Details

The letter "X" should not be used to designate a grand master. As stated above, this letter symbol is reserved for use in cross keying.

The letters I and O should be avoided for use as grand master or master key symbols as they are sometimes confused for numbers. To avoid confusion with O, Q should also be avoided.

For systems with more than twenty-four master keys under a given grand, the counting numbers are used between the letters of the pair. For example, A2A, A2B, A2C....A2Z are the symbols for master keys twenty-five through forty-eight.

SKD Combinations - Non-master Keyed Cylinders

SKD's Used in a Master Key System

The symbol SKD is used to indicate combinations in a master key system that are never operated by a master key. Typical uses are for securing personnel records, pharmacies, evidence rooms in police stations, etc., where SKD combinations provide greater security.

The key symbols SKD1, SKD2 and SKD3 represent different bittings. If you have three locks keyed to SKD1, you have a keyed alike group. It is for this reason that SKD does not mean single keyed different.

SKD sets are never master keyed; their combinations are derived outside of a master key system.

Non-master Keyed Cylinders - One Level of Keying

SKD is the standard symbol for one level of keying. Locks are either keyed-alike (KA) or keyed-different (KD). To prevent key interchange or repetition of SKD's, a bitting list can be generated under a selected parity pattern and the bittings crossed off the list as they are used.

Important Note:

Serious liability can arise by furnishing SKD's for different End Users under the same control key. Although this is convenient for servicing it is not an acceptable practice. Kaba treats SKD's under a single control key like a master key system. Such systems are registered by signature card to a specific Dealer.

Kaba Factory Bitting List Policy

A bitting list is a document showing all the key combinations used in a keying system. Possession of a bitting list imposes a serious responsibility for the integrity of the system. For these reasons, Kaba contracts designate the bitting list to be the property of the Dealer.

Since a bitting list requires the time and labor of a qualified professional to generate, a nominal fee will be charged for creating the list or for a transcript. This charge is in the factory price list.

Orders for bitting list transcripts are subject to the conditions of the specific key control contract and distribution channel.

Designing Top Master Keys and Control Keys

The standards given below are used by the factory in designing and generating bitting lists. They apply to the top master key (TMK) in a system as well as the control key (CTR).

Design Standards

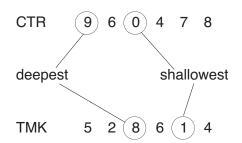
- 1. TMK's should have at least one of the shallowest possible bittings in one progressed position, and one of the deepest possible bittings in another position, whether it is progressed or not.
 - The purpose is to keep lower level keys from being cut down to the TMK or CTR bitting. The deepest possible cut statistically reduces key manipulation (key picking) as does a moderately deep constant.
- 2. Moderate cut-to-cut variations should be employed. Extremes in adjacent cut depths cause premature wear in the cylinder and on the key. Bittings of this type should be assigned last.
- 3. Uniformly shallow or deep keys should not be used. For example, 988789, is easy to pick, and any key in the system can be cut down to it. Uniformly shallow keys, like 120112, also make the locks easy to pick.
- 4. Declining step keys should be avoided. 976642 is an example of a declining step key. Such keys, when worn, tend to pull out of a turned plug and make the cylinder less pick-resistant.
- 5. Deep cuts next to the bow should be avoided as they can weaken a key. Kaba recommends that this position be progressed last in any key system to make all keys as strong as possible.

Control Keys (CTR)

The control key (CTR) should have the same characteristics as a top master key. The control key should normally differ from the top master key in all positions. The control key cuts are chosen from the progression columns of the KBA. The control is actually a change key. Note in the sample system that the key bitting array has been manipulated so that the control key is the last key in the system.

When you cross the control key combination off the progression list, you can be certain that no other key in the system will ever be a control key.

CTR	9	6	0	4	7	8
TMK	5	2	8	6	1	4
	7	4	2	8 0 2 4	3	6
	3	0	4	0	5	2
	1	8	6	2	9	0
	9	6	0	4	7	8
SOP	а	b	С	d	е	f



All systems should have different TMK's and distinct CTR combinations. TMK and control combinations should be recorded in a register to prevent repetition of the combinations. Kaba recommends that parity patterns be used to separate the master key systems from the KA and KD combinations for non-master keyed projects.

The TMK Register

The TMK register logs all top master keys and control keys by system register number to prevent duplication of systems. This type of register is kept by all manufacturers. Kaba maintains their logs by keyway, parity pattern and system location.

Example of TMK Register						
Mfr.	Key Section	TMK	Control	Parity	Location	Register #
Corbin	60	453263		Sys70	Toledo	A012
Dexter	67	12212		OEEOE	Medina	A102
Kaba	PEAKS-D	836152		EOEOOE	Parma	A016
Kaba	PEAKS-D	793063	957405	OOOEEO	Bay Village	A015
Kwikset	1063	41363		none	Rocky River	A035
Sargent	LA	361794	363594	OEOOOE	Bay Village	A013
Sargent	LA	361794	363594	OEOOOE	Bay Village	A013

Adding small & large format interchangeable cores to a system of conventional cylinders

Small format interchangeable core / large format interchangeable core cylinders can usually be added to a system of 140 conventional cylinders at any time. KABA recommends that you write a control key for all Peaks systems, so that if small format interchangeable core / large format interchangeable core is added later, the control key will be properly designed.

Visual Key Control (VKC)

Visual key control is the marking of the face of cores and cylinders with the symbols of the standard key coding system. From a security standpoint this is not a wise practice. If a key is found, a glance at the face of the cylinder would reveal what the key operates.

Do not stamp the plug face. This voids the warranty and may collapse the patent pin chamber.

Concealed Key Control (CKC)

Concealed key control is the marking of key symbols on the side or back of cores or cylinders. Kaba marks the key symbol on the side of the core with a permanent marker. In this way, when the core is recombinated, the key symbol can be buffed off and no damage will be done.





Technical Manual

Section 5: Cylinder Installation Guide



Introduction

This is an aid to selecting Peaks Global key-in-knob cylinders for grade 1 and 2 cylindrical locksets. It should be used in conjunction with Section 2 of the Peaks Global Technical Manual and your own library of competitors' catalogs and technical literature.

While there are many variations in trim designs, there is a finite offering of hardware. You will see the same few cylinder configurations used repeatedly.

The industry calls cylinders for both knob and lever trim "key-in-knob" cylinders. This document will use "handle" to mean the portion of the operating trim which contains the cylinder.

Key Demountable (KDH) versus Non-Key Demountable (Non-KDH) handles

To retrofit a cylindrical lock with Peaks Global, the handle must be removed to gain access to the cylinder. Some handles can be removed by turning an operating key and depressing a retainer.

Other locks require disassembly of the lockset and take more time to retrofit. This distinction is important when quoting labor for installation.

Tools

Basic hand tools are needed to service cylindrical locks, including standard and Phillips screw drivers, a plastic or rawhide mallet, and Superlube™ lubricant. Key demountable handles require a "poker" tool to depress the retainer. A ¹/₁₀" pin punch is an excellent tool for this purpose.

Spanner wrenches are required for all grade 1 knobs, and a few grade 1 levers. Grade 2 knobs and levers are normally mounted with concealed screws and do not require spanner wrenches.

Any tools beyond basic hand tools required for specific hardware will be listed below.

Finishes

North American hardware finishes for the plug face of key-in-knob cylinders are as follow:

for white finishes such as 625, 626, 628, 629, and 630: use Peaks Global satin chrome finish number 25; for all other finishes: use Peaks Global satin brass finish number 04.

Identifying the Manufacturer

The face of the latch is the first indicator of manufacturer. Certain brands of latch bolts and lock chassis are compatible. For example, occasionally an Arrow chassis will be seen with a Schlage latch bolt. When the knob or lever is removed, the appearance of the spindle cam, i.e., the cylindrical actuator into which the cylinder tailpiece fits, can be used to identify the chassis.



Brand	Logo On Face	Notes
Arrow	yes	"AMEROCK" and other OEM names have been used.
Corbin Russwin	yes	Prior to the brand merger in 1993, the individual brand names "CORBIN" or "RUSSWIN" were used. The Emhart logo, a capital E with horizontal arrows was used during Emhart's ownership. Some older unit locks have no trademark.
Falcon	yes	Falcon LY series grade 1 levers were imported from the same source as PDQ grade 1 levers and are sometimes confused.
LSDA	yes	Imported; house brand of the IDN companies.
Marks	yes	
PDQ	maybe	Latches for these locks bear check marks in a circle (sic), and may be private labeled. Products assembled in the U.S.A. are marked "PDQ".
Sargent	yes	Product line numbers 6, 7, 8, 9, 10, 7600, etc. are stamped on the face. eg., a latch face marked "8" indicates an 8 Line lock.
Schlage	yes	Same key-in-knob cylinder body used throughout cylindrical lock line. Only the tailpiece shape and orientation vary.
Yale	yes	

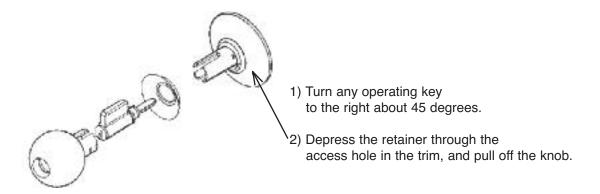
5-pin versus 6-pin

Older hardware may have 5-pin cylinders and no room in the handle to retrofit a 6-pin cylinder. Existing operating keys can be misleading. For example, some contemporary hardware is pinned to 5-pin keys, even though the cylinders have six pin chambers. This is referred to as "drilled 6, pinned 5". Try a 6-pin key blank in the cylinder. It won't seat fully in a 5-pin cylinder.

Cylinder Removal Methods

<u>Key demountable handle</u> (KDH): Remove cylinder by turning any operating key, depressing a retainer in the shank of the handle, and pulling on the handle.

Most contemporary cylindrical locks have key demountable handles.



Non-key demountable handle (*Non-KDH*): Remove cylinder by disassembling the lockset. Corbin Russwin and Sargent grade 1 knobs and preassembled locksets are the primary *Non-KDH* hardware.

brand	grade 1 levers	grade 1 knobs	grade 1 preassembled	grade 2 levers	grade 2 knobs
Arrow	KDH	KDH		KDH	KDH
Corbin Russwin	KDH	Non-KDH	Non-KDH	KDH	KDH/ Non-KDH
Falcon	KDH	KDH	KDH	KDH	KDH
LSDA	KDH	KDH		KDH	KDH
Marks	KDH	KDH		KDH	KDH
PDQ	KDH	KDH		KDH	KDH
Sargent	KDH	Non-KDH	Non-KDH *	KDH	KDH
Schlage	KDH	KDH		KDH	KDH
Yale	KDH	KDH	KDH	KDH	KDH

NOTES:

*Sargent discontinued their unit lock decades ago. However, they also made a lock called the "IntegraLock" (7600 Line) that used a small mortise body with through-bolted key-in-knob trim.

Arrow Architectural Hardware

Division of Assa Abloy

- "ARROW" appears on the latch face.
- · Basic hand tools required.

NOTES:

- · Flexcore is available in small format interchangeable core only.
- Entire Arrow line is available prepped for small format interchangeable core.



Arrow	H series grade 1 knobs & levers	J series grade 2 interconnected	L, M series grade 2 levers	M series grade 2 knobs	tubular deadlocks
retrofit type	KDH	KDH	KDH	KDH	
Peaks Global:	5400-xx-1099	5400-xx-1099	5400-xx-1099	5400-xx-1099	5400-xx-109

Corbin Russwin Architectural Hardware

Division of Yale Security Assa Abloy

- Depending on the vintage, "CORBIN", "CORBIN RUSSWIN", "EMHART", and "RUSSWIN" will all be seen on latch faces.
- Corbin Russwin's proprietary profile core can be retrofit with Peaks 5140 Rcore.

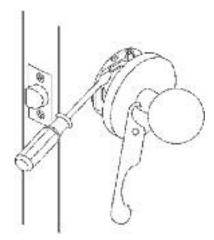
Corbin old no.	Russwin old no.	Corbin Russwin (1993)	product	retrofit method	Peaks Global
700	900	CL3200	grade 1 levers	KDH	5140 large format interchangeable core
na	na	CL3300	grade 1 levers	KDH	5400-xx-1099
800	800	CL3400, CL3600	grade 1 levers	KDH	5400-xx-1099 or 5140 large format interchangeable core
na	na	CL3800	grade 2 levers discontinued 9-97 (replaced by CL3900)	KDH	5400-xx-1099 with OEM tailpiece
na	na	CL3900	grade 2 levers	KDH	5400-xx-1055
400	400	CK4200	grade 1 knobs	Non-KDH	5400-xx-1004 or 5140 large format interchangeable core
6600 300	3400 500	CK4400 UT5200	grade 2 knobs, import grade 1 unit locks	KDH/ Non-KDH Non-KDH	in development 5400-xx-1004 or 5140 large format interchangeable core

TOOLS:

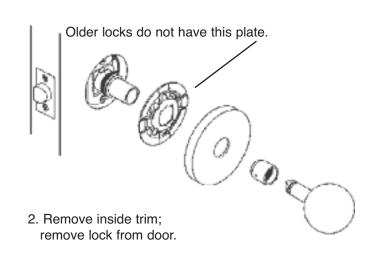
- Grade 1 levers CL3400 and CL3600, require #585F48 hex wrench for flanged nut on rose liner.
- Grade 1 knobs, CK4200, require spanner wrench and long nose Tru-Arc pliers.
- Replacement of pre-1972 cylinders requires purchase of Corbin Russwin cylinder driver #144F29

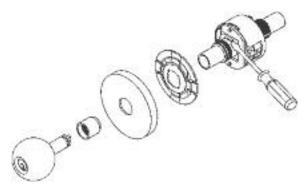
Retrofitting Corbin Russwin CK4200 grade 1 knobs

current model, 1976 to date

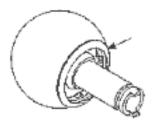


1. Loosen inside rose with spanner wrench; depress knob retainer.

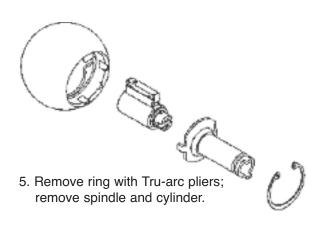


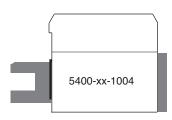


3. Depress outside knob retainer; remove outside knob.



4. Remove knob cap if present.



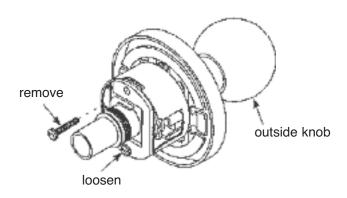


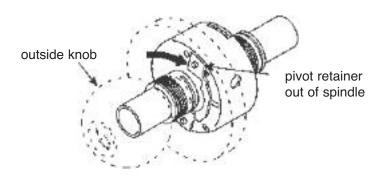
6. Install Peaks Global cylinder 5400-xx-1004 and reverse above steps.

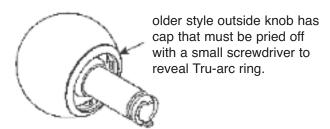
Retrofitting Corbin Russwin CK4200 grade 1 knobs

models prior to 1976

Locksets made prior to 1976 were made with the outside knob retainer rigid. To remove the outside knob on pre-1976 locksets, remove one of the chassis screws completely, and loosen the other screw slightly. This will allow the knob retainer to pivot out of the spindle and permit knob removal.







Falcon Lock Co.

Division of Ingersoll Rand

• "FALCON" appears on the latch face

TOOLS:

- · Spanner wrench is required for grade 1.
- 1/16" pin punch for depressing retainer

Falcon	LY series grade 1 levers	X series grade 1 knobs	RU and X series grade 1 unit lock preassembled	S series grade 2 knobs	D series tubular deadlocks/latches
retrofit type	KDH	KDH	KDH	KDH	
Peaks Global:	5400-xx-1099	5400-xx-1099	5400-xx-1099;	5400-xx-1099	5400-xx-1095

• 5400-xx-1095 is identical to 5400-xx-1099, except for the small diameter plug face required for Falcon dead locks and old style X series unit locks.

Marks USA

Amityville, New York

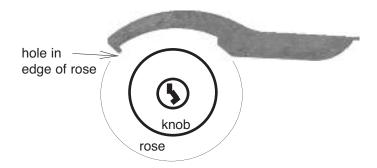
- "MARKS" appears on the latch face.
- Grade 1 and 2 cylindrical locks can be prepped for small format interchangeable core.
- · Current Marks deadbolts accept only 6-pin small format interchangeable core.

Marks	195/295 grade 1 levers	180 grade 1 knobs	170/270 grade 2 levers	110/120 grade 2 knobs	130 Deadlocks
retrofit type	KDH	KDH	KDH	KDH	
Peaks Global:	5400-xx-1099*	5400-xx-1099*	5400-xx-1099*	5400-xx-1099*	5400-xx-1099*

^{*}with original Marks tailpieces

TOOLS:

· Marks spanner wrench (engages entire rose) is required to install lockset, but not to change cylinders.



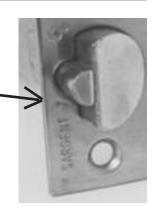
Div. of Assa Abloy

"SARGENT" appears on the latch face.

Latch face bears a number indicating product line (6, 7, 8, 9, 10, etc.). Sargent 10 Line is identical to Arrow lever, except for small plug face diameter.

TOOLS:

7, 8 and 9 Line grade 1 knobs require a 3/32" hand held punch and mallet. 10 Line grade 1 levers require Sargent bushing wrench, #10-0022.

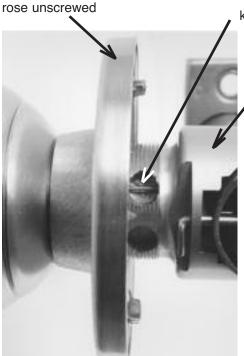


Sargent 6 line grade 2	6 Line grade 2 non-Ball knobs	7, 8, 9 Line grade 1 Ball knobs	10 Line grade 1 knobs	5500 grade 2 levers	knobs
retrofit type	KDH	KDH	Non-KDH	KDH	KDH
Peaks Global:	5400-xx-1095	5400-xx-1095	5400-xx-1008	5400-xx-1095	5400-xx-1095

Sargent	6500 Line grade 2 levers	2000 exit devices	7600 Line preassembled	tubular deadlocks
retrofit type	KDH	KDH	Non-KDH	
Peaks Global:	5400-xx-1095	5400-xx-1095	5400-xx-1076	5400-xx-1099

Retrofitting Sargent 7, 8 and 9 Line grade 1 knobs

1) With spanner wrench, loosen inside rose and unscrew outside rose completely.



knob retainer spring visible through hole in aligner tube

aligner tube

- 2) Lock must be unlocked (outside knob free). If storeroom function, remove inside knob first per step 3. For other single cylinder functions, it is not necessary to remove inside knob.
- 3) Rotate knob and until knob retainer spring is visible in any hole threaded shank of aligner tube.
- 4) Depress knob retainer spring with small screwdriver. Pull out on knob and rotate back to rest position. Pull knob out of aligner tube.





7) Unscrew spindle from knob. Slowly separate knob and spindle. Observe order of parts and save them, including the roll pin.

6) Drive roll pin completely into knob with \Re_{32} " punch and mallet.





8) Replace cylinder with Peaks Global 5400-xx-1008. Reverse steps to reassemble. Do not reassemble with key in cylinder.

Schlage Lock Co.

Division of Ingersoll Rand

• "SCHLAGE" appears the latch face.

TOOLS:

- Spanner wrench is required for grade 1.
- Castlenut bushing wrench (included with new locks) is required to install AL grade 2 leversets, but not to change the cylinders.
- 1/16" pin punch for depressing retainer

NOTES:

• Original S series tailpiece must be used in 5400-xx-1099 cylinder.

Schlage	D series grade 1 knobs & levers	H series grade 2 interconnected	A, AL series grade 2 knobs & levers	S series grade 2 levers	E/B series tubular deadlocks/latches
retrofit type	KDH	KDH	KDH	KDH	
Peaks Global:	5400-xx-1099	5400-xx-1099	5400-xx-1099	5400-xx-1099	5400-xx-1099

Yale Security

Assa Abloy

- "YALE" appears the latch face.
- All grade 1 & 2 product is key demountable.*

TOOLS:

- 5400 grade 1 knobs require a spanner wrench.
- 5400L grade 1 levers require an 1/8" Allen wrench and an original Yale 5400L spanner wrench.

Yale 5400L	5400 grade 1 levers	6200 Monolock grade 1 knobs	5300L grade 1 unit lock preassembled	5300 grade 2 levers	grade 2 knobs
retrofit type	KDH*	KDH	KDH	KDH	KDH
Peaks Global:	5400-xx-1055	5400-xx-1054	5400-xx-1054	5400-xx-1095	5400-xx-1054

^{*}The original 5400 Augusta Lever was non-key demountable.

This lock was produced for only a few months and was redesigned to be key demountable.

Peaks" Global	
Notes	

Peaks® Global		
Notes		



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