

CYLINDERS/KEYS

Cylinders and Keying Catalog



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ACCENTRA KeyMark®

ACCENTRA KeyMark® protected keyway line of cylinders feature an angled keyway designed to accept any keyblank constructed with the same angle, allowing all key formats to be tied to the same master key system. Security Leg® prohibits other manufacturers' keys from entering the cylinder, prevents unauthorized duplication of keys and offers increased picking resistance against intruders. Cylinders include mortise, rim, component, auxiliary, and interchangeable core. Interchangeable core is available in both large and small format. For more information and details on ACCENTRA KeyMark® cylinders please refer to separate catalog section.



Cylinders/Keys

Today's facilities require flexible options when it comes to security. Thanks to recent technological changes in the security industry, modern commercial buildings have a variety of choices of how access to each opening is controlled. Mechanical key cylinders continue to provide strong traditional security, but many facilities favor a combination of mechanical and electronic security products for convenient access with an audit trail.

ASSA ABLOY ACCENTRA™ offers a range of cylinder options, including conventional, interchangeable core, security, high security and ACCENTRA KeyMark®. Providing an array of cylinders, keys and keying systems that meet the needs of any facility.

Cylinders Finishes

ANSI/BHMA Code	Finish Description	Plug Finish
605	Bright Brass, Clear Coated	606
606	Satin Brass, Clear Coated	606
611	Bright Bronze, Clear Coated	606
612	Satin Bronze, Clear Coated	606
613E	Dark Oxidized Satin Bronze - equivalent	606
618	Bright Nickel Plated, Clear Coated	626
619	Satin Nickel Plated, Clear Coated	626
625	Bright Chrome Plated	626
626	Satin Chrome Plated	626
629	Bright Stainless Steel	626
630	Satin Stainless Steel	626
693	Black Painted	606
BSP	Black Suede Powder Coat	BSP*
WSP	White Suede Powder Coat	626

*Exceptions as noted on cylinder pages. 626 provided where BSP not available.

Notes:

- Rim cylinders not available in 629 or 630 finishes.
- Component cylinders and LFIC shells/plugs provided in 606, 626 or BSP unless otherwise noted
- SFIC shells/plugs provided in 606 or 626 only

How To Order Cylinders

When ordering cylinders separately, the following details should be specified. Cylinders ordered with ACCENTRA products will be provided to accommodate those products. Detailed information can also be found in the individual product catalogs.

Model #	Length	Cam	Collar	No. of Pins	Keyway	Finish
2153	1-1/8"	2/60	65-250	6	GA	626



This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

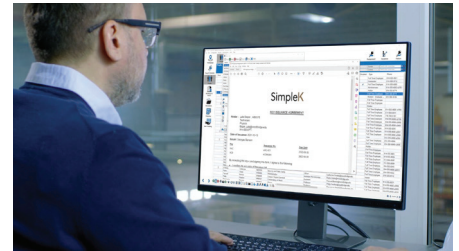
MASTER KEY AND KEY MANAGEMENT SOFTWARE

SimpleK

SimpleK is a flexible and intuitive software program that streamlines and simplifies the complexities of managing master key systems, keys, and facilities. It combines all tools needed by locksmiths, facility managers, security officers, and anyone else involved in the key management processes.

The software provides total key control with audit trails, outstanding keys, overdue keys, tools for the rekeying process, and more. SimpleK software allows you to import maps and floor plans to see who has access to each individual door, the associated keys, and hardware on the opening.

SimpleK allows you to manage keys and keying systems of all sizes and types. This includes: Medeco, Corbin Russwin, ASSA ABLOY ACCENTRA™, SARGENT, ASSA, ABLOY, Schlage®, Best®, and many others.



Features

- Advanced tools for locksmithing and key control
- Manage all key systems (unlimited number of records)
- Robust import tools to bring current data into SimpleK
- Interactive floor plans
- Master key system design and expansion
- Key requests, approvals, issuances, and returns workflow
- Cylinders and core pinning (verifies key interchange)
- Door-Key association visualization and rekeying solution
- Easily identify keys, access, and hardware on openings
- Visibility to audit trails and outstanding/overdue keys

SimpleK – Standard Edition	
Description	Part Number
Primary License (3 users)	SMK040-30
Updates & Support Plan on Primary License, 1 year	SMK040-31
SimpleK – Professional Edition	
Description	Part Number
Primary License (3 users)	SMK042-30
Additional license	SMK042-32
Updates & Support Plan on Primary License, 1 year	SMK042-35
Updates & Support Plan on Additional License, 1 year (per Add. Lic.)	SMK042-33
Add-On Modules	
Description	Part Number
Item Tracking	SMK032-31
Web Interface	SMK032-33
Room Management	SMK032-35
Mobile Applications	SMK032-37

For more information, customer service or technical support, please call SimpleK at 800-315-0454 or visit www.simplek.com. Please note that customers are required to fill out and submit the SimpleK form on the next page for all software orders.

SimpleK

Brand*	
Distributor Purchase Order Number*	
Distributor Account Number*	
Part Number*:	Standard Edition ☐ SMK040-30 Primary License (3 users) ☐ SMK040-31 Updates & Support Plan on Primary License, 1 year Professional Edition ☐ SMK042-32 Additional license ☐ SMK042-35 Updates & Support Plan on Primary License, 1 year ☐ SMK042-33 Updates & Support Plan on Additional License, 1 year (per Add. Lic.) Add-On Modules ☐ SMK032-31 Item Tracking ☐ SMK032-33 Web Interface ☐ SMK032-35 Room Management ☐ SMK032-37 Mobile Applications
To receive your SimpleK license and download link with instructions for your new software package, the following End User Information is required:	
Company/Institution Name*	
Mailing Address*	
City*	
State/Province*	
Zip/Postal Code*	
Country*	
Primary Point of Contact*	
Telephone*	
Email Address where license and download link will be sent*	

*Required field

CYLINDERS AND KEY STAMPING

Keys and/or cylinders stamped with their respective keyset symbols allows for easy identification and will reduce the chance of confusion between cylinders, keys and the lockset during and after installation. The information on the cylinder allows for easy identification of the levels of security within that particular cylinder.

For example, the symbol AA1 shown in the illustration identifies the lock to be operated by grand master key A, master key AA and change key AA1. Upon written authorization from the building owner to an authorized ACCENTRA Distributor, a bitting list can be supplied for each job to translate the symbols into key bittings.

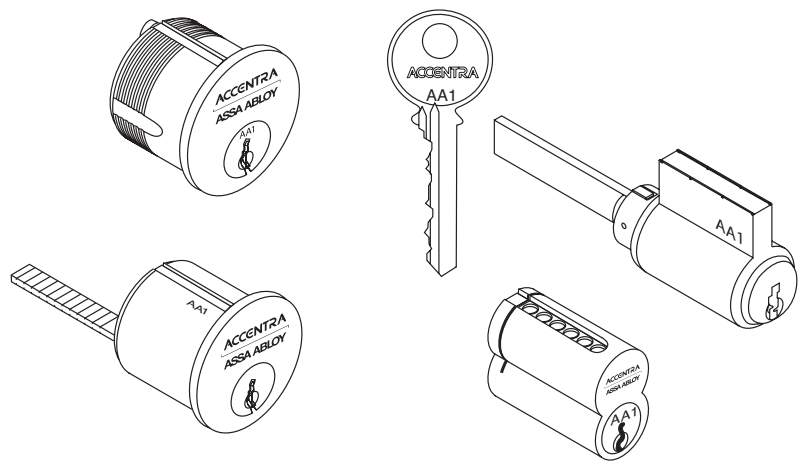
If a key is lost, it can easily be replaced by referring to the symbol on the cylinder and the bitting on the bitting list. VKC is not available on security, high security or ACCENTRA KeyMark® cylinders.

Visual Key Control (VKC)

For convenience, specify VKC and the key symbol is stamped on the plug face or other visible portion of the front of the cylinder. (VKC is available on all keys, but not available on security, high security or ACCENTRA KeyMark® cylinders.)

Concealed Key Control (CKC)

For greater security, specify CKC on the cylinders. The key symbol is stamped in a concealed location, such as the rear of the cylinder. It is not visible to the general occupants of the building but can be accessed by authorized personnel upon removing the cylinder from the lockset.



Key Stamping Code Definitions

Code	Definition
VKC0	No keyset, registry number, or bitting stamping any keys. Includes master keys and change keys. Keys will be stamped with keyway designation. (Keys will be tagged.)
VKC1	Master keys stamped with their keyset symbol and registry number. Change keys stamped with their keyset symbol (Standard for high security, security and ACCENTRA KeyMark® cylinders.)
VKC2	Master keys stamped with their keyset symbol and registry number. Change keys stamped with their keyset symbol. Cylinders stamped with their keyset symbol on the face of the plug. (Not available for high security cylinders, security cylinders or ACCENTRA KeyMark.)
VKC3	Master keys stamped with their keyset symbol and registry number. Change keys stamped with their bitting. Cylinders stamped with their keyset symbol on the face of the plug. (Not available for high security cylinders, security cylinders or ACCENTRA KeyMark.)
CKC2	Master keys stamped with their keyset symbol and registry number. Change keys stamped with their keyset symbol. Cylinders stamped with their keyset symbol in a concealed location.
CKC3	Master keys stamped with their keyset symbol and registry number. Change keys stamped with their bitting. Cylinders stamped with their keyset symbol in a concealed location. (Not available for high security cylinders, security cylinders or ACCENTRA KeyMark.)

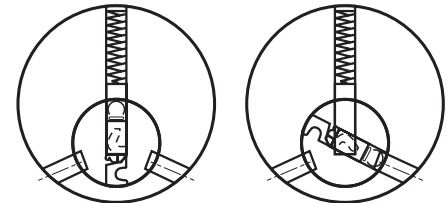
SPECIAL FEATURES

Construction Master Keying

Construction Master Keying (CMK) provides the extra security needed in the transition from construction of a building or complex to completion. The construction master key operates all cylinders during construction. Upon completion of the construction phase, a special break out key is used in each cylinder to permanently void the construction master key. This action eliminates further use of the construction master or break out key.

How it Works

ACCENTRA construction keying is accomplished by the placement of a ball bearing between the bottom pin and the top pin in one of the chambers. While the ball bearing is in place the construction master key will operate the cylinder. Removing the ball bearing, by use of the special break out key, voids the use of the construction master key. For all standard cylinders, the breakout key is rotated approximately 120 degrees either clockwise or counter-clockwise and the ball bearing is lost through a pre-drilled hole in the cylinder shell.



With CBOK inserted

**Turning CBOK
Releases
Ball-Bearing**

SKD Caution

Unless otherwise specified, SKD sets will be construction master keyed. When construction master keying is established for SKD sets, ACCENTRA issues a separate SKD construction master keys and construction break out keys.

Temporary Construction Cores

A more secure method of construction keying for interchangeable core hardware is the use of temporary construction cores. ACCENTRA recommends this method of construction keying for key systems using interchangeable core cylinders. Construction cores are furnished keyed alike to a combination unrelated to the permanent system's master key. When the building is turned over to the owner, the permanent cores are installed and the temporary construction cores are returned to ACCENTRA for credit.

How to Order CMK

To order locksets and/or cylinders with the construction master key feature, the option code CMK should be indicated. i.e. 2153 x CMK. Construction master keying is not available on security, high security or ACCENTRA KeyMark® cylinders.

The permanent master and change keys for the system are always packed and shipped separately, and the order must include the names and addresses of individuals to whom the construction, permanent master and change keys should be sent.

To order locksets and/or cylinders with temporary construction cores, specify "x Temp Core" when ordering. i.e. 2196 x Temp Core.

Interchangeable Core

ACCENTRA offers interchangeable core cylinders which are recommended for virtually all types of keying systems, such as office buildings, hotels, schools, hospitals and universities. These cylinders have a 'self-contained' core which is removed from the housing by a control key. The core can be replaced or re-keyed without removing the hardware from the door or disassembling the lock. For conventional and security cylinders, ACCENTRA offers large format interchangeable cores which can be integrated with standard cylinder formats within the same key system. For ACCENTRA KeyMark® systems, large format and small format cores are available and can be keyed within the same key system. ACCENTRA also offers small format cores and master keying with Best® keyways (see page 19).



To order interchangeable core cylinders with locksets, specify by cylinder or core model number. i.e. AUR8807FL x RH x 2196 x 626 or AU5407LN x RH x 1210 x 626. Unless otherwise specified, conventional fixed core cylinders will be provided as standard with locksets.

Large format cores are available construction master keyed, although temporary cores are recommended. To void the construction master key, the core must first be removed from the housing and then operated by the breakout key to remove the ball bearing.

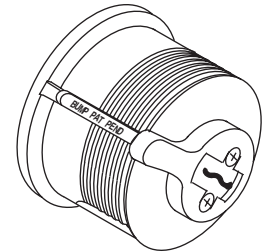
SPECIAL FEATURES

Bump Resistant

Bumping, also called "rapping," has been a known lock picking technique for more than 50 years. This technique uses a specially cut key, which when inserted into a cylinder and then hit with a mallet or tool, forces the key to interact with the pins. This motion allows a separation between the pins which creates a "shear" line and enables the key to be turned and the lock to be opened.

Conventional cylinders in both fixed and interchangeable core formats are available to be constructed to withstand bumping. These cylinders will contain a patent pending pinning component that is designed to resist bumping attacks while maintaining cylinder functionality. Bump resistant cylinders provide an added line of defense against unauthorized entry.

The bump resistant feature is available as an option for conventional mortise, rim and component cylinders with ACCENTRA keyways. Fixed and interchangeable core cylinders can be provided in either in 6- or 7-pin lengths. This option is not available for security, high security or ACCENTRA KeyMark® cylinders at this time.



How to Order

To order with cylinders, specify option BUMP. (Cylinders will be marked with "BUMP PAT PEND" on the pin cover.)

Retrofit pins are also available to convert existing cylinders to bump resistant cylinders. Order by specifying 751-3. A vial with a quantity of 300 pins is provided which will allow the retrofit of approximately 50 cylinders (6-pin). The vial easily fits into the SK-12 pin kit.

The ACCENTRA .019" pinning specification will change for cylinders with the BUMP option. Cylinders will be combined with a special 3 (.190") top (driver) pin in each chamber. Please see page 30 for Bump pinning specification.

Hotel Function

Although not widely used in today's hotels, the hotel function lock still has several applications. In most cases, these locks are mixed with other lock functions on the same keying system.

When ordering a factory keyed lock system that includes hotel function locks ALL cylinders in the system will need to be 7-pin in length with 7-pin keys. This applies even though the master key system will be 6-pin for expansion purposes.

How it Works

The hotel function cylinder contains a blocking screw where the 7th pin is normally located. When the deadbolt is thrown on the hotel function lock, the blocking screw is engaged, thus blocking all change keys and master keys from operating the cylinder. Only the emergency key (EMK), which is cut on a shorter key blank with an undercut tip, will override the deadbolt thus operating the cylinder.

The change keys and master keys that operate the hotel function cylinder when the deadbolt is retracted are cut on key blanks with an undercut tip to bypass the blocking screw.

The hotel function lock may be operated by a grand master key or master key that also operates other cylinders in the system. Therefore, the other product must be 7-pin to accommodate these top master keys.

Keyblanks

The following keyblanks are required when using hotel function locks/cylinders mixed with other function hardware:

RN411 = Change key and top master keys that would operate hotel function cylinder

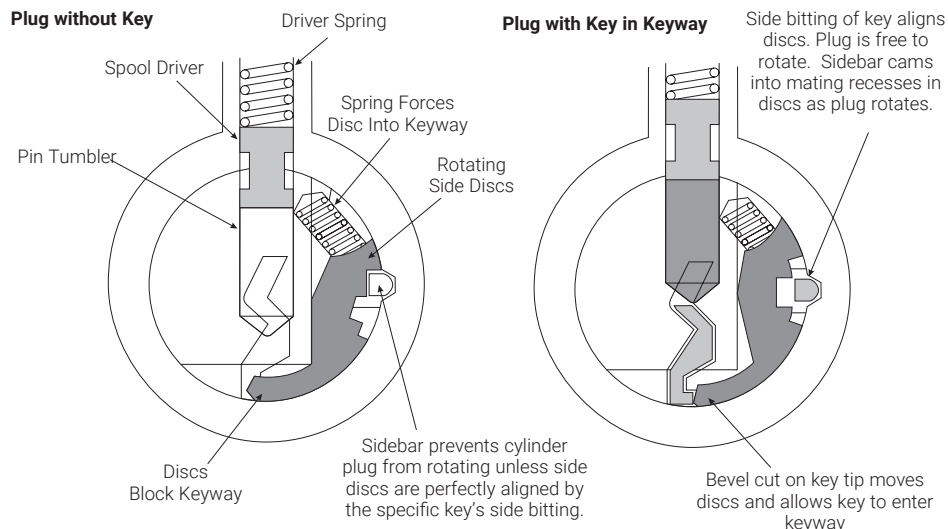
RN117 = All other change keys and master keys in the system

RN411S = Emergency key

FN118C = Control key (if interchangeable core)

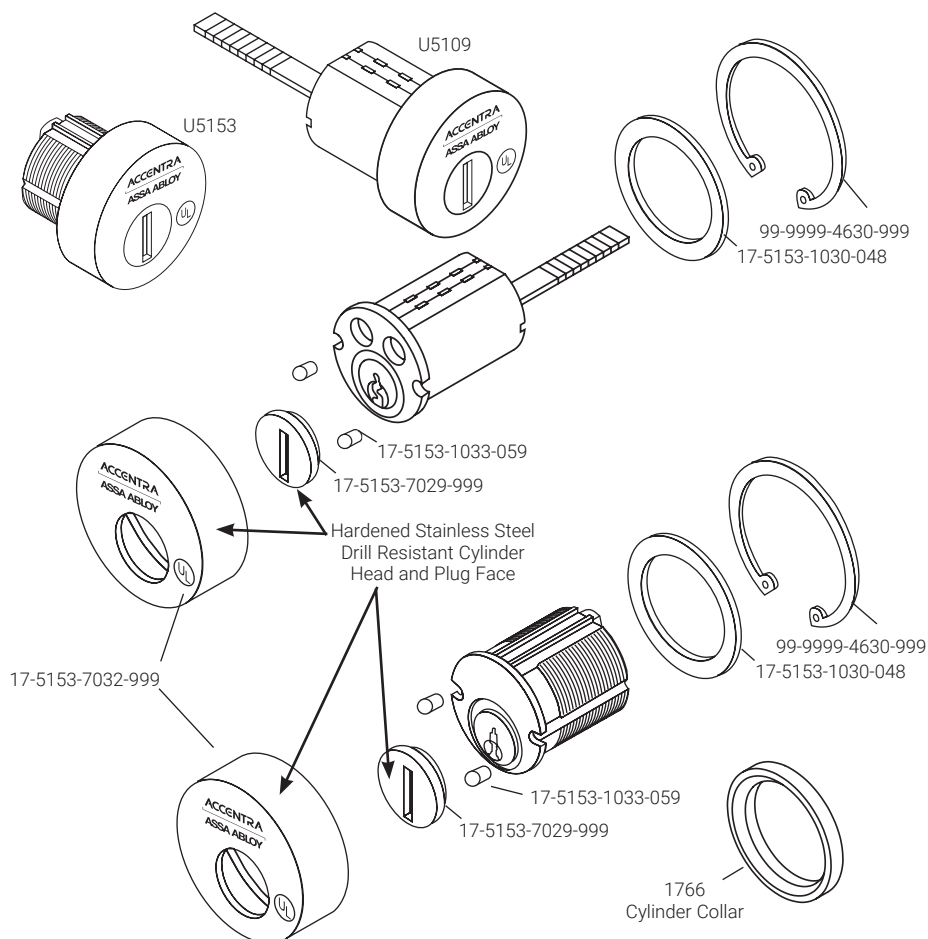
SECURITY AND HIGH SECURITY

Security cylinders contain two independent locking mechanisms. The first is a traditional 6- or 7-pin tumbler mechanism with spool drivers for greater pick resistance. The second is an innovative rotating disc mechanism with sidebar engagement. The rotating discs are spring loaded and block the bottom of the keyway. Only a specially cut key will move the discs and allow entrance of the key. This key has special side bittings and must align all discs perfectly before the cylinder plug will rotate to open the lock. This cylinder is highly pick resistant because the unlocking mechanisms must be activated in two directions.



UL High Security Cylinders

For applications that require a high security cylinder to meet the requirements of UL 437 for pick and drill resistance, ACCENTRA offers the U5153 mortise cylinder and the U5109 rim cylinder. These cylinders have a hardened stainless steel cylinder head and rotating plug face. They also incorporate all the features listed for the standard security cylinders. U5109 and U5153 cylinders use the 1766 cylinder collar, see page 24 for more information.



MORTISE CYLINDERS

Fixed Core For Current Products

Includes standard, hotel, security and high security for mortise and auxiliary applications. Stock cylinders are furnished 1-1/8" length and 6-pin keyed random. Unless otherwise specified, stock cylinders ordered separately will be provided with cylinder collar 1765.156. If another collar size is required, specify when ordering. Refer to individual product sections for collar applications and sizes.

Mortise cylinders are provided standard with cams to operate ACCENTRA mortise locks, optional cams are available (see page 23).



Model #	Description	Lengths					Cam
		5-Pin	6-Pin		7-Pin		
2153	Standard cylinder	1" (25)	1-1/8" (29) 1-1/4" (32) 1-3/8" (35)	1-1/2" (38) 1-5/8" (41) 1-3/4" (44)	1-1/4" (32) 1-3/8" (35) 1-1/2" (38)	1-5/8" (41) 1-3/4" (44)	2160
2153S	Standard cylinder for inside operation of 8817-2 and 8834-2 functions only	1" (25)	1-1/8" (29) 1-1/4" (32) 1-3/8" (35)	1-1/2" (38) 1-5/8" (41) 1-3/4" (44)	1-1/4" (32) 1-3/8" (35) 1-1/2" (38)	1-5/8" (41) 1-3/4" (44)	2130
2123	Same as 2153 with long lengths for thicker doors	--	1-7/8" (48) 2" (51) 2-1/8" (54) 2-1/4" (57)	2-3/8" (60) 2-1/2" (64) 2-5/8" (67) 2-3/4" (70)	2-7/8" (73) 3" (76) 3-1/8" (79)	3-3/8" (86) 3-1/4" (83) 3-1/2" (89)	2160
2123S	Same as 2153S with long lengths for thicker doors	--	--		--		2130
2719*	Standard cylinder for Hotel/Motel functions 8820, 8827, and 8832	--	1-3/8" (35)		--		2160
S2053S	Thumbturn cylinder for inside operation of 8834 function	1" (25)	1-1/8" (29)		--		2130
S2053	Thumbturn operated cylinder to replace key operated cylinder	1" (25)	1-1/8" (29)		--		2160
1108	Dummy mortise cylinder	1" (25)	1-1/8" (29) 1-1/4" (32) 1-3/8" (35)	1-1/2" (38) 1-5/8" (41) 1-3/4" (44)	1-1/4" (32) 1-3/8" (35) 1-1/2" (38)	1-5/8" (41) 1-3/4" (44)	N/A
5153	Security cylinder	--	1-1/8" (29)	1-1/4" (32)	1-1/4" (32)		2160
5153S	Security cylinder for inside operation of 8817-2 and 8834-2 functions only	--	1-1/8" (29)	1-1/4" (32)	1-1/4" (32)		2130
5719*	Security cylinder for Hotel/Motel functions 8820, 8827, and 8832	--	1-3/8" (35)		--		2160
U5153	High security cylinder	--	1-1/8" (29)	1-1/4" (32)	1-1/4" (32)		2160
U5719*	High security cylinder for Hotel/Motel functions 8820, 8827, and 8832	--	1-3/8" (35)		--		2160
2553^	Schlage® "C" keyway cylinder 0-bitted or keyed random	--	1-1/8" (29)		--		2160

*Cylinders are 6-pin for master keying expansion purposes. Locksets and housings will be 7-pin in length to accommodate top level master keys. See page 7 for more information.

^Available in 606, 612 and 626 finishes only.

MORTISE CYLINDERS

Fixed Core For Obsolete Products

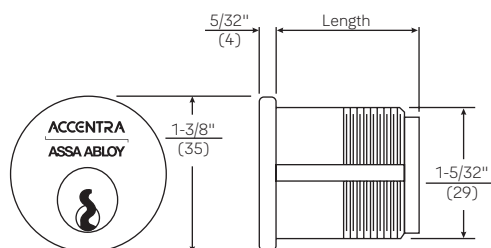
The following fixed core cylinders are available for obsolete mortise products

Model #	Description	Lengths			Cam
		5-Pin	6-Pin	7-Pin	
1152	Standard cylinder for obsolete cast iron mortise locks	1" (25)	1-1/8" (29) 1-1/2" (38) 1-1/4" (32) 1-5/8" (41) 1-3/8" (35) 1-3/4" (44)	1-1/4" (32) 1-5/8" (41) 1-3/8" (35) 1-3/4" (44) 1-1/2" (38)	1161
1719*	Standard cylinder for obsolete Hotel/Motel cast iron locks	--	1-3/8" (35)	--	1160
5152	Security cylinder for obsolete cast iron mortise locks	--	1-1/8" (29) 1-1/4" (32)	1-1/4" (32)	1161
U5152	High security cylinder for obsolete cast iron mortise locks	--	1-1/8" (29) 1-1/4" (32)	1-1/4" (32)	1161

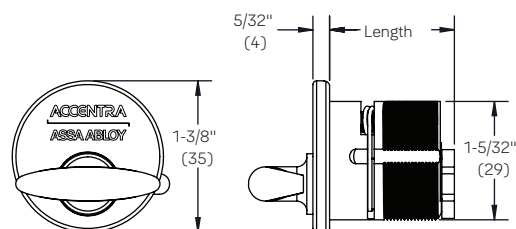
*Cylinders are 6-pin for master keying expansion purposes. Locksets and housings will be 7-pin in length to accommodate top level master keys. See page 7 for more information.

Dimensions

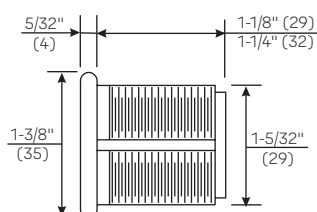
Standard Cylinders



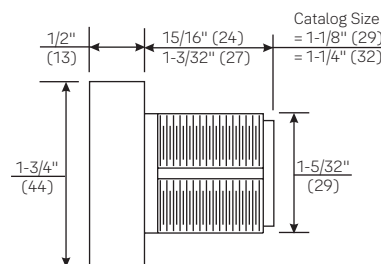
Thumbturn Cylinders



Security Cylinders



High Security Cylinders



Dimensions are shown in inches (millimeters)

MORTISE CYLINDERS

Large Format Interchangeable Core (LFIC) For Current Products

Includes standard, hotel, security and high security large format interchangeable core for mortise and auxiliary applications. When ordering interchangeable core cylinders or cores only, control keys are not furnished. If control keys are required, they must be specified.



Model Numbers			Description	Lengths		Cam
Complete Cylinder	Core Only	Housing Only		6-Pin	7-Pin	
2196	1210**	2221	Standard cylinder	1-1/2" (38) 1-3/4" (44) 2" (51)	--	2160
2196S	1210**	2214S	Standard cylinder for inside operation of 8817-2 and 8834-2 functions only	1-1/2" (38)	--	2130
2196H*	1210H**	2213	Standard cylinder for Hotel/Motel functions 8820, 8827, and 8832	1-11/16" (43)	--	2160
2197	1220**	2213	Standard cylinder	--	1-11/16" (43) 2" (51)	2160
2197S	1220**	2217S	Standard cylinder for inside operation of 8817-2 and 8834-2 functions only	--	1-11/16" (43)	2130
5196	5210	2221	Security cylinder	1-1/2" (38) 1-3/4" (44) 2" (51)	--	2160
5196S	5210	2214S	Security cylinder for inside operation of 8817-2 and 8834-2 functions only	1-1/2" (38)	--	2130
5196H*	5210H	2213	Security cylinder for Hotel/Motel functions 8820, 8827, and 8832	1-11/16" (43)	--	2160
5197	5220	2213	Security cylinder	--	1-11/16" (43) 2" (51)	2160
5197S	5220	2217S	Security cylinder for inside operation of 8817-2 and 8834-2 functions only	--	1-11/16" (43)	2130

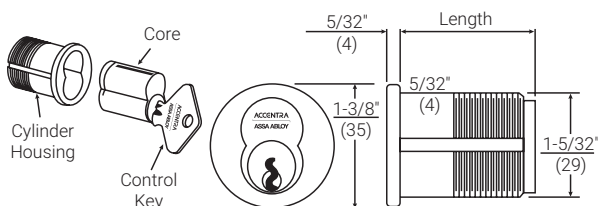
*Cores are 6-pin for master keying expansion purposes. Locksets and housings will be 7-pin in length to accommodate top level master keys. See page 7 for more information.

Large Format Interchangeable Core (LFIC) For Obsolete Products

The following LFIC cylinders are available for obsolete or discontinued mortise products.

Model Numbers			Description	Lengths		Cam
Complete Cylinder	Core Only	Housing Only		6-Pin	7-Pin	
1194	1210**	1214	Standard cylinder for obsolete cast iron mortise locks	1-1/2" (38)	--	1160E
1194	1220**	1214H	Standard cylinder for obsolete cast iron mortise locks	--	1-11/16" (43)	1160E
1194H*	1210H**	1214H	Standard cylinder for obsolete Hotel/Motel cast iron locks	1-11/16" (43)	--	1160E
1196	1210**	1221	Standard cylinder for discontinued 310 series deadlocks	1-1/2" (38)	--	1160R
1196	1220**	1213	Standard cylinder for discontinued 310 series deadlocks	--	1-11/16" (43)	1160R
1196H*	1210H**	1213	Standard cylinder for obsolete hotel 310 series deadlocks	1-11/16" (43)	--	1160R
5194	5210	1214	Security cylinder for obsolete cast iron mortise locks	1-1/2" (38)	--	1160E
5194	5220	1214H	Security cylinder for obsolete cast iron mortise locks	--	1-11/16" (43)	1160E

*Cores are 6-pin for master keying expansion purposes. Locksets and housings will be 7-pin in length to accommodate top level master keys. See page 7 for more information.



Cylinder Finish	Shell/Plug Finish
605, 606, 611, 612, 613E	606
618, 619, 625, 626, 629, 630, WSP	626
BSP	BSP

LFIC Mortise housings supplied in finish specified
**1210 & 1220 cores available in 606 finish only

Dimensions are shown in inches (millimeters)

RIM CYLINDERS

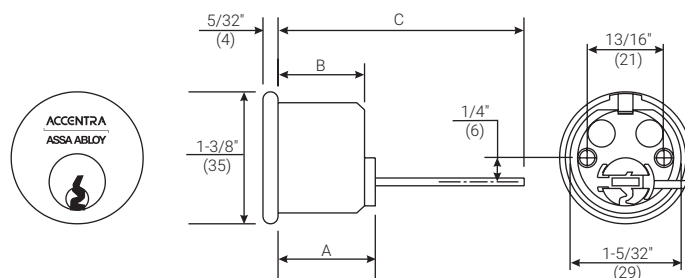
Fixed Core For Current Products

Includes standard, hotel, security and high security for rim lock and exit device trim applications. When ordered with products, cylinders are provided with applicable tailpiece and collar. Cylinders ordered separately are provided with backplate and screws standard. Tailpiece must be specified. If required, collar must be specified. Refer to individual product sections for collar applications and sizes.



Model #	Description	No. of Active Pins	Dim A	Dim B	Dim C Tailpiece Model Numbers	
					#1145	#1147
1109	Standard cylinder	5	1-1/32" (26)	15/16" (24)	2-9/16" (65)	3-7/16" (87)
		6	1-7/32" (31)	1-3/32" (28)	2-3/4" (70)	3-5/8" (92)
		7	1-13/32" (36)	1-1/4" (32)	2-15/16" (75)	3-13/16" (97)
5109	Security cylinder	6	1-7/32" (31)	1-3/32" (28)	2-3/4" (70)	3-5/8" (92)
		7	1-13/32" (36)	1-1/4" (32)	2-15/16" (75)	3-13/16" (97)
2109 [^]	Schlage "C" keyway cylinder - 0-bitted or keyed random	6	1-7/32" (31)	1-3/32" (28)	2-3/4" (70)	3-5/8" (92)

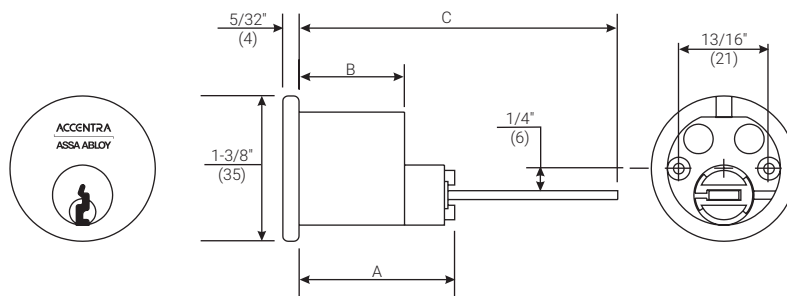
[^]Available in 606, 612 and 626 finishes only.



Fixed Core For Hotel/Motel Function Products

Model #	Description	No. of Active Pins	Dim A	Dim B	Dim C Tailpiece Model Numbers	
					#1145	#1147
1179*	Standard cylinder for Hotel/Motel function	6	1-5/8" (41)	1-3/32" (28)	3-3/16" (81)	4" (102)

*Cylinders are 6-pin for master keying expansion purposes. Locksets and housings will be 7-pin in length to accommodate top level master keys. See page 7 for more information.

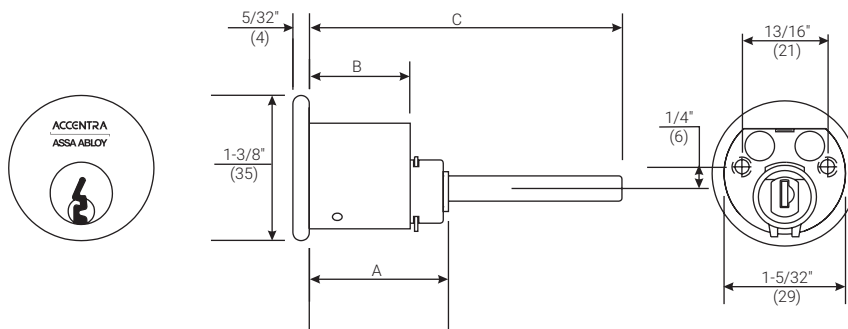


Dimensions are shown in inches (millimeters)

RIM CYLINDERS

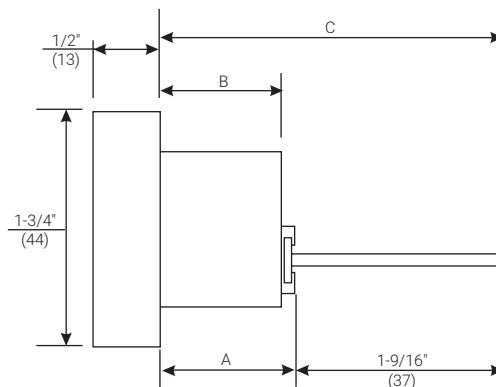
With Lazy Cam Operation

Model #	Description	No. of Active Pins	Dim A	Dim B	Dim C Tailpiece Model Numbers
1709	Standard cylinder with lazy cam operation	5 or 6	1-11/32" (34)	31/32" (25)	3-3/16" (81)
		7	1-1/2" (38)	1-1/8" (29)	3-7/32" (82)



Fixed Core High Security

Model #	Description	No. of Active Pins	Dim A	Dim B	Dim C Tailpiece Model Numbers	
					#1145	#1147
U5109	High Security Cylinder	6	1-1/16" (27)	15/16" (24)	2-7/16" (62)	3-5/8" (84)
		7	1-1/8" (29)	1-1/16" (27)	2-5/8" (67)	3-1/16" (89)



Dimensions are shown in inches (millimeters)

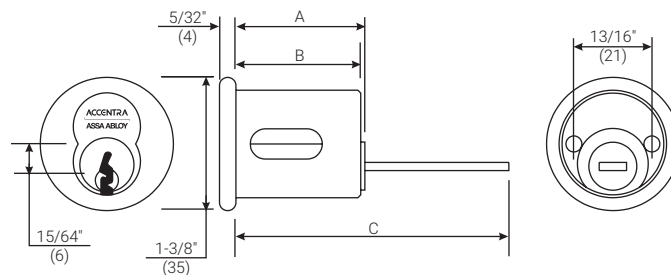
RIM CYLINDERS

Large Format Interchangeable Core (LFIC) For Current Products

Includes standard, hotel, security and high security large format interchangeable core for rim lock and exit device trim applications. When ordering interchangeable core cylinders or cores only, control keys are not furnished. If control keys are required, they must be specified.



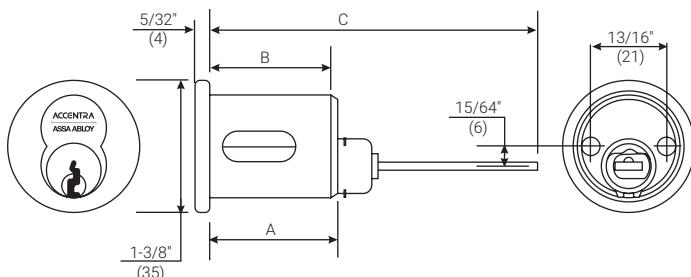
Model Numbers			Description	No. of Active Pins	Dim A	Dim B	Dim C Tailpiece Model Numbers	
Complete Cylinder	Core Only	Housing Only					#1145	#1147
1193	1210**	1212	Standard cylinder	6	1-7/16" (37)	1-3/8" (27)	2-15/16" (75)	3-3/4" (95)
1193	1220**	1212B	Standard cylinder	7	1-5/8" (41)	1-9/16" (40)	3-1/8" (79)	4-5/16" (110)
5193	5210	1212	Security cylinder	6	1-7/16" (37)	1-3/8" (35)	2-15/16" (75)	3-3/4" (95)
5193	5220	1212B	Security cylinder	7	1-5/8" (41)	1-9/16" (40)	3-1/8" (79)	4-5/16" (110)



Large Format Interchangeable Core (LFIC) With Lazy Cam Operation

Model Numbers			Description	No. of Active Pins	Dim A	Dim B	Dim C
Complete Cylinder	Core Only	Housing Only					
1193L	1210**	*	Standard cylinder with lazy cam operation	6	1-3/4" (44)	1-3/8" (35)	3-1/2" (89)

*Uses 1212 housing with lazy cam. Specify by part number 10-1193-0044 x Finish



Cylinder Finish	Shell/Plug Finish
605, 606, 611, 612, 613E	606
618, 619, 625, 626, 629, 630, WSP	626
BSP	BSP

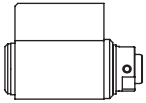
LFIC Rim housings supplied in finish specified
**1210 & 1220 cores available in 606 finish only

Dimensions are shown in inches (millimeters)

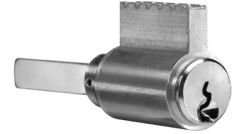
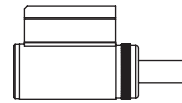
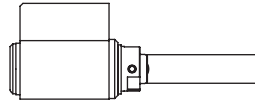
COMPONENT CYLINDERS

Includes standard and security for cylindrical lock, exit trim and deadbolt applications.

Knob Cylinders



Lever Cylinders



Conventional

Model #	No. of Pins	Tailpiece Part Number (Length)*	Applications
Cylindrical Locks & Exit Device Trim			
1801	6	None	Standard for 5300 [^] & 5400 [^] series knob locks and 540F [^] series trim.
1801A	7	None	Standard for 5400 [^] series knob locks and 540F [^] series trim.
1802	6	14-5407-1039-048 (1.69")	Standard for 5400LN, 6400LN [^] & inTouch [®] lever locks and 440F, 540F & 580F series trims. Optional for 4700LN & 5300LN series lever locks. Sleeve 14-5305-9078-999 required for use with 4700LN, 5300LN, inTouch and 440F trims.
1802A	7	14-5407-1049-048 (1.50")	Standard for 5400LN & 6400LN [^] series lever locks and 540F & 580F series trims.
1802L	6	14-5305-1060-048 (2.00")	Optional for 5300LN series locks used with 2" to 2-1/4" thick doors. Sleeve 14-5305-9078-999 required
1802S	6	14-5417-1024-048 (.940")	Standard for 5417LN & 6417LN [^] function inside lever locks
1803-54L	6	17-1803-1005 (.692")	Standard for Corbin Russwin CL3100 (YC) & Sargent 11 Line (YC-) series lever locks. Optional for 4300LN [^] , 4600LN & 4800LN [^] series lever locks.
1803A-54L	7	17-1803-1004 (.536")	Standard for Corbin Russwin CL3100 (YC7), Sargent 11 Line (YC-7P-) series lever locks.
1803-54K	6	17-1803-1005 (.692")	Standard for 5400CK series knob locks and Heritage Collection lever locks.
1803-53L	6	17-1803-1011 (1.700")	Standard for nexTouch [®] cylindrical lever locks. Optional for inTouch [®] lever locks. Sleeve 14-1803-9001-999 required.
1803-47L	6	17-1803-1012 (1.930")	Standard for 4700LN & 5300LN series lever locks. Optional for 440F series trim. Sleeve 14-1803-9001-999 required.
1803-46L	6	17-1803-1006 (1.106")	Standard for Corbin Russwin CLX3300 (YC) & SARGENT 10X Line (YC-) series cylindrical locks, mechanical functions, 1-3/8" – 2" doors.
1803-46LL	6	17-1803-1008 (1.330")	Standard for Corbin Russwin CLX3300 (YC) & SARGENT 10X Line (YC-) series cylindrical locks, mechanical functions, 2-1/4" doors.
1803A-46L	7	17-1803-1007 (.950")	Standard for Corbin Russwin CLX3300 (YC7) & SARGENT 10X Line (YC-7P-) series cylindrical locks, mechanical functions, 1-3/8" – 2" doors.
1803A-46LL	7	17-1803-1009 (1.174")	Standard for Corbin Russwin CLX3300 (YC7) & SARGENT 10X Line (YC-7P-) series cylindrical locks, mechanical functions, 2-1/4" doors.
1803-46E	6	17-1803-1015 (.945")	Standard for Corbin Russwin CLX3300 (YC) & SARGENT 10X Line (YC-) series cylindrical locks, electrified functions, 1-3/8" – 2" doors.
1803-46LE	6	17-1803-1017 (1.108")	Standard for Corbin Russwin CLX3300 (YC) & SARGENT 10X Line (YC-) series cylindrical locks, electrified functions, 2-1/4" doors.
1803A-46E	7	17-1803-1016 (.789")	Standard for Corbin Russwin CLX3300 (YC7) & SARGENT 10X Line (YC-7P-) series cylindrical locks, electrified functions, 1-3/8" – 2" doors.
1803A-46LE	7	17-1803-1018 (.952")	Standard for Corbin Russwin CLX3300 (YC7) & SARGENT 10X Line (YC-7P-) series cylindrical locks, electrified functions, 2-1/4" doors.
1803-46K	6	17-1803-1006 (1.106")	Optional for 4600YC series knob locks.
1805	6	S13-0919-999 (1.161")	Standard for 4600YC & 4700 [^] series knob locks.
1806	6	S05-0215-999 (.844")	Standard for 4600LN series lever locks.
1812	6	14-4307-1000-048 (.614")	Standard for 4300 [^] , 4300LN [^] & 4800LN [^] series knob/lever locks.

*Tailpiece length specified for 1-3/4" door. For other door thicknesses, contact technical support.

[^] Lockset series obsolete.

COMPONENT CYLINDERS

Conventional (cont.)

Model #	No. of Pins	Tailpiece Part Number (Length)*	Applications
Deadbolts			
1803-134S	6	17-1803-1013 (.230")	Standard for Heritage Collection deadbolt used with interconnected lock (non-face removable). Optional for D Series deadbolts, single cylinder functions.
1803-134D	6	17-1803-1014 (.87")	Optional for D Series deadbolts, double cylinder functions.
1807	6	S13-0880 (.2134")	Standard for D series deadbolts, single cylinder functions.
1808	6	S13-0878 (.812")	Standard for D series deadbolts, double cylinder functions.
1814	6	14-3721-1007 (1.94")	Standard for 4800LN [^] series deadbolt.

Security

Model #	No. of Pins	Tailpiece Part Number (Length)*	Applications
Cylindrical Locks & Exit Device Trim			
5801C	6	None	Optional for 5300 [^] & 5400 [^] series knob locks and 540F [^] series trim.
5801A	7	None	Optional for 5400 [^] series knob locks and 540F [^] series trim.
5802	6	14-5407-1039-048 (1.69")	Optional for 4700LN, 5300LN, 5400LN, 6400LN [^] & inTouch [®] lever locks and 440F, 540F & 580F series trims. Sleeve 14-5305-9078-999 required for use with 4700LN, 5300LN, inTouch and 440F trims.
5802A	7	14-5407-1049-048 (1.50")	Optional for 5400LN & 6400LN [^] series lever locks and 540F & 580F series trims.
5812	6	14-4307-1000-048 (.614")	Optional for 4300 [^] , 4300LN [^] & 4800LN [^] series knob/lever locks.
5803-54L	6	17-1803-1005 (.692")	Optional for Corbin Russwin CL3100 (YC) & Sargent 11 Line (YC-) series lever locks. Optional for 4300LN [^] , 4600LN & 4800LN [^] series lever locks.
5803A-54L	7	17-1803-1004 (.536")	Optional for Corbin Russwin CL3100 (YC7), Sargent 11 Line (YC-7P-) series lever locks.
5803-54K	6	17-1803-1005 (.692")	Optional for 5400CK series knob locks and Heritage Collection lever locks.
5803-53L	6	17-1803-1011 (1.700")	Optional for nexTouch [®] cylindrical and inTouch [®] lever locks. Sleeve 14-1803-9001-999 required.
5803-47L	6	17-1803-1012 (1.930")	Standard for 4700LN & 5300LN series lever locks. Optional for 440F series trim. Sleeve 14-1803-9001-999 required.
5803-46L	6	17-1803-1006 (1.106")	Standard for Corbin Russwin CLX3300 (YC) & SARGENT 10X Line (YC-) series cylindrical locks, mechanical functions, 1-3/8" – 2" doors.
5803-46LL	6	17-1803-1008 (1.330")	Standard for Corbin Russwin CLX3300 (YC) & SARGENT 10X Line (YC-) series cylindrical locks, mechanical functions, 2-1/4" doors.
5803A-46L	7	17-1803-1007 (.950")	Standard for Corbin Russwin CLX3300 (YC7) & SARGENT 10X Line (YC-7P-) series cylindrical locks, mechanical functions, 1-3/8" – 2" doors.
5803A-46LL	7	17-1803-1009 (1.174")	Standard for Corbin Russwin CLX3300 (YC7) & SARGENT 10X Line (YC-7P-) series cylindrical locks, mechanical functions, 2-1/4" doors.
5803-46E	6	17-1803-1015 (.945")	Standard for Corbin Russwin CLX3300 (YC) & SARGENT 10X Line (YC-) series cylindrical locks, electrified functions, 1-3/8" – 2" doors.
5803-46LE	6	17-1803-1017 (1.108")	Standard for Corbin Russwin CLX3300 (YC) & SARGENT 10X Line (YC-) series cylindrical locks, electrified functions, 2-1/4" doors.
5803A-46E	7	17-1803-1016 (.789")	Standard for Corbin Russwin CLX3300 (YC7) & SARGENT 10X Line (YC-7P-) series cylindrical locks, electrified functions, 1-3/8" – 2" doors.
5803A-46LE	7	17-1803-1018 (.952")	Standard for Corbin Russwin CLX3300 (YC7) & SARGENT 10X Line (YC-7P-) series cylindrical locks, electrified functions, 2-1/4" doors.
5803-46K	6	17-1803-1006 (1.106")	Optional for 4600YC series knob locks.
Deadbolts			
5814	6	14-3721-1007 (1.94")	Optional for 4800LN [^] series deadbolt.
5803-134S	6	17-1803-1013 (.230")	Optional for Heritage Collection deadbolt used with interconnected lock (non-face removable). Optional for D Series deadbolts, single cylinder functions.
5803-134D	6	17-1803-1014 (.87")	Optional for D Series deadbolts, double cylinder functions.

*Tailpiece length specified for 1-3/4" door. For other door thicknesses, contact technical support.

[^] Lockset series obsolete.

COMPONENT CYLINDERS

Other Manufacturer's Keyway

Model #	No. of Pins	Tailpiece Part Number (Length)*	Applications
Cylindrical Locks & Exit Device Trim			
2801	6	None	Schlage® "C" keyway for 5300 [^] & 5400 [^] series locks and 540F [^] series trim.
2802	6	14-5407-1039-048 (1.69")	Schlage® "C" keyway for 5300LN, 5400LN, 6400LN [^] & inTouch® [^] series lever locks and 440F, 540F & 580F series trims. Sleeve 14-5305-9078-999 required for use with 4700LN, 5300LN, inTouch [^] and 440F trims.
2805	6	S13-0919-999 (1.161")	Schlage® "C" keyway for 4600YC & 4700 [^] series knob locks.
2806	6	S05-0215-999 (.844")	Schlage® "C" keyway for 4600LN series lever locks.
2812	6	14-4307-1000-048 (.614")	Schlage® "C" keyway for 4300 [^] , 4300LN [^] & 4800LN [^] series knob/lever locks.
2803-54L	6	17-1803-1005 (.692")	Optional for Corbin Russwin CL3100 (YC) & Sargent 11 Line (YC-) series lever locks. Optional for 4300LN [^] , 4600LN & 4800LN [^] series lever locks.
2803-54K	6	17-1803-1005 (.692")	Schlage® "C" keyway for 5400CK series knob locks and Heritage Collection lever locks.
2803-53L	6	17-1803-1011 (1.700")	Schlage® "C" keyway for nexTouch® cylindrical lever locks. Optional for inTouch® [^] lever locks. Sleeve 14-1803-9001-999 required.
2803-47L	6	17-1803-1012 (1.930")	Standard for 4700LN & 5300LN series lever locks. Optional for 440F series trim. Sleeve 14-1803-9001-999 required.
2803-46L	6	17-1803-1006 (1.106")	Optional for Corbin Russwin CLX3300 (YC) & SARGENT 10X Line (YC-) series cylindrical locks, 1-3/8" – 2" doors.
2803-46K	6	17-1803-1006 (1.106")	Optional for 4600YC series knob locks.
3804	6	14-5407-0460-048 (1.70")	Other manufacturer's keyway for 4700LN, 5300LN, 5400LN, 6400LN [^] & inTouch® [^] lever locks and 440F, 540F & 580F series trims.
3805	6	Contact technical support	Other manufacturer's keyway for 4700 [^] series knob locks.
3806	6	Tailpieces from pack included with cylinder (.925" for lever lock & .690" for knob lock)	Other manufacturer's keyway for 4600YC & 4600LN series knob/lever locks.
3803-54L	6	17-1803-1005 (.692")	Optional for Corbin Russwin CL3100 (YC) & Sargent 11 Line (YC-) series lever locks. Optional for 4300LN, 4600LN & 4800LN [^] series lever locks.
3803-54K	6	17-1803-1005 (.692")	Other manufacturer's keyway for 5400CK series knob locks and Heritage Collection lever locks.
3803-53L	6	17-1803-1011 (1.700")	Other manufacturer's keyway for nexTouch® cylindrical lever locks. Optional for inTouch® [^] lever locks. Sleeve 14-1803-9001-999 required.
3803-47L	6	17-1803-1012 (1.930")	Standard for 4700LN & 5300LN series lever locks. Optional for 440F series trim. Sleeve 14-1803-9001-999 required.
3803-46L	6	17-1803-1006 (1.106")	Optional for Corbin Russwin CLX3300 (YC) & SARGENT 10X Line (YC-) series cylindrical locks, 1-3/8" – 2" doors.
3803-46K	6	17-1803-1006 (1.106")	Optional for 4600YC series knob locks.
100CV1	6	Contact technical support	Arrow AR keyway for nexTouch® cylindrical lever locks.

*Tailpiece length specified for 1-3/4" door. For other door thicknesses, contact technical support.

[^] Lockset series obsolete.

Notes:

- Schlage® C keyway cylinders (28XX) are available keyed random or 0-bitted.
- Other manufacturer's keyway cylinders (38XX) are only available keyed random, please specify keyway. Available keyways are Sargent LA, Schlage® E, Corbin Russwin L4, Corbin® 60 and Russwin® D1.
- All cylinders on this page available in 606 or 626 finishes only.

COMPONENT CYLINDERS

Other Manufacturer's Keyway (Cont.)

Model #	No. of Pins	Tailpiece Part Number (Length)*	Applications
Deadbolts			
2807	6	S13-0880 (2.134")	Schlage® "C" keyway for D series deadbolts, single cylinder functions
2808	6	S13-0878 (.812")	Schlage® "C" keyway for D series deadbolts, double cylinder functions
2814	6	14-3721-1007 (1.94")	Schlage® "C" keyway for 4800LN^ series deadbolt
2803-134S	6	17-1803-1013 (2.30")	Schlage® "C" keyway for Heritage Collection deadbolt used with interconnected lock (non-face removable). Optional for D Series deadbolts, single cylinder functions.
2803-134D	6	17-1803-1014 (.87")	Schlage® "C" keyway for D Series deadbolts, double cylinder functions
3806	6	Tailpieces from the pack included with cylinder (2.130" for single cylinder function & .950" for double cylinder function)	Other manufacturer's keyway for D series deadbolts
3803-134S	6	17-1803-1013 (2.30")	Other manufacturer's keyway for Heritage Collection Deadbolt used with interconnected lock (non-face removable). Optional for D Series deadbolts, single cylinder functions.
3803-134D	6	17-1803-1014 (.87")	Other manufacturer's keyway for D Series deadbolts, double cylinder functions

*Tailpiece length specified for 1-3/4" door. For other door thicknesses, contact technical support.

^ Lockset series obsolete.

Notes:

- Schlage® C keyway cylinders (28XX) are available keyed random or 0-bitted.
- Other manufacturer's keyway cylinders (38XX) are only available keyed random, please specify keyway. Available keyways are Sargent LA, Schlage® E, Corbin Russwin L4, Corbin® 60 and Russwin® D1.
- All cylinders on this page available in 606 or 626 finishes only

INTERCHANGEABLE CORE

Large Format

Large format cores are interchangeable with ACCENTRA mortise locks, cylindrical locks and exit device trims and can be keyed in conjunction with standard cylinders. When ordering cores only, control keys are not furnished. If control keys are required, they must be specified.



Model #	Description	Number of Active Pins
1210	Standard large format core	6
1220	Standard large format core	7
1210H*	Standard large format core for Hotel/Motel functions 8820, 8827, and 8832	6
5210	Security large format core	6
5220	Security large format core	7
5210H*	Security large format core for Hotel/Motel functions 8820, 8827, and 8832	6

*Cylinders are 6-pin for master keying expansion purposes. Locksets and housings will be 7-pin in length to accommodate top level master keys. See page 7 for more information.

Notes:

- Large format removable core (LFIC) plugs and shells supplied in 606, 626, or BSP finishes only.
- LFIC cores are not available Keyed Random.

Small Format

SFIC cores are offered in ACCENTRA KeyMark® (see separate catalog for more information) or Best® keyways A, B, C, D, E, F, G, H, J, K, L and M.

Best® keyway cores can be provided master keyed or uncombined. Master keying will be provided to a new key system only. Systems can be provided using the A2 or A4 pinning specification and can not be tied into any conventional or ACCENTRA KeyMark key systems. If keying is not specified at the time of order, SFIC cylinders will be supplied as uncombined.



All cylindrical lock small format preparations accept either 6- or 7-pin cores. For mortise and rim housings, see chart below. When ordering cores only, control keys are not furnished. If control keys are required, they must be specified.

Model Numbers			Description	Lengths		Cam/Tailpiece
Complete Cylinder	Core Only	Housing Only		6-Pin	7-Pin	
A620	A600	K660	Best® keyway mortise cylinder	1-1/4" (32) 1-3/8" (35)	1-3/8" (35) 1-3/4" (44)	KC1*
A630	A600	K670	Best® keyway tapered mortise cylinder	1-1/4" (32) 1-3/8" (35)	1-3/8" (35)	KC1
A640	A600	K680	Best® keyway rim cylinder	1-1/4" (32) 1-3/8" (35)	1-3/8" (35)	KT1
--	K925	--	Disposable thumbturn only, used with 6- or 7-pin	--	--	--
--	K926	--	Temporary construction core only, used with 6- or 7-pin	--	--	--

*Refer to the ACCENTRA KeyMark® catalog page 15 for optional cams and page 19 for more information on SFIC construction core program.

For 1-3/4" housing, the cam is riveted; therefore only KC1 is available.

For 6-pin, 1-1/4" will be supplied unless otherwise specified.

Small format removable core (SFIC) plugs and shells supplied in 606 or 626 finishes only. K925 temporary core available in blue color only.

KEY BLANKS

ACCENTRA offers .51" pin tumbler key blanks in several lengths and bow styles. All key blanks are supplied in nickel silver and are available in all .51" key sections. See page 22 for key sections. Keys are available with special stamping, i.e. Do Not Duplicate. Custom die stamps are also available upon request. Contact customer service for more information.

How To Order

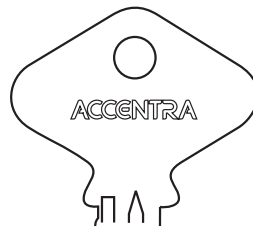
Bow Style	Key Blank Material	Basic Model Number	Key Section
R	N	11	GA
See Below	Nickel Silver	.51" Pin Tumbler 9 = 4 Pin 8 = 5 Pin 11 = 6 Pin 117 = 7 Pin 118 = 8 Pin 411 = 7-1/2 Pin 411S = 6 Pin	See page 22

Bow Styles



R

Standard bow furnished for all conventional keys.



F

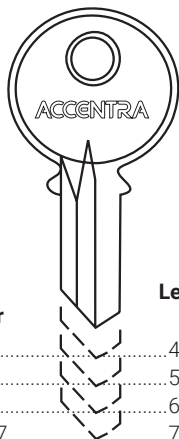
Standard bow furnished for control keys, optional for conventional keys.



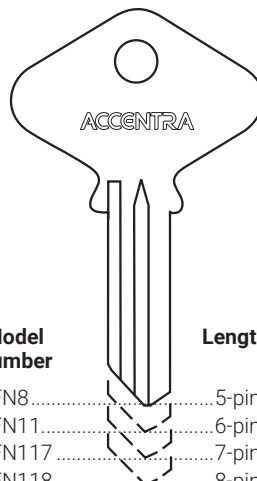
A

Standard bow furnished for security and high security keys, optional for conventional keys.

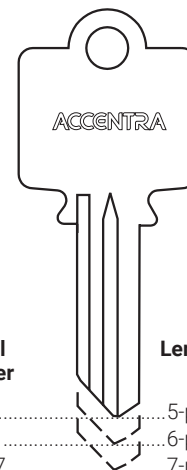
.51" Pin Tumbler Key Blanks



Model Number	Length
RN9.....	4-pin
RN8.....	5-pin
RN11.....	6-pin
RN117.....	7-pin



Model Number	Length
FN8.....	5-pin
FN11.....	6-pin
FN117.....	7-pin
FN118.....	8-pin

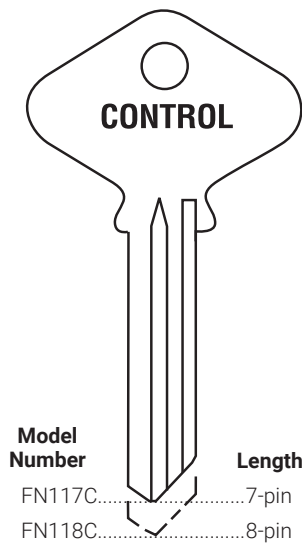


Model Number	Length
*AN8.....	5-pin
*AN11.....	6-pin
AN117.....	7-pin

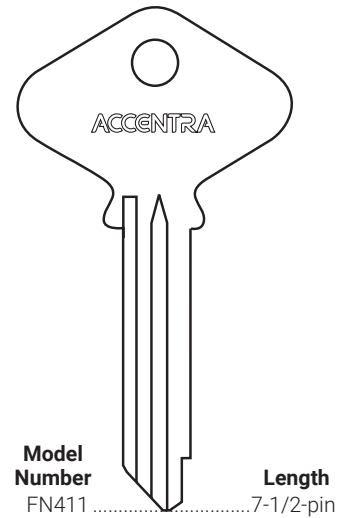
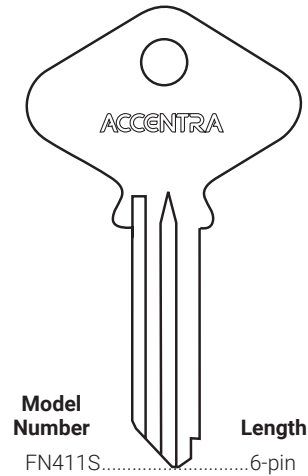
*Standard key bow for high security key blanks, letter of authorization required. Side cuts are factory machined.

KEY BLANKS

LFIC Control Key Blanks



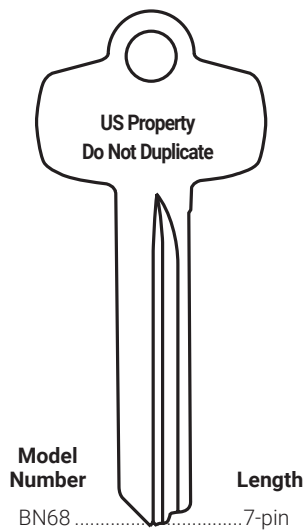
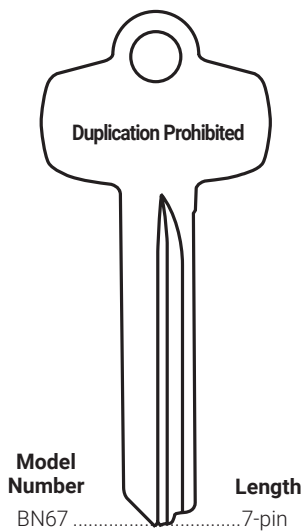
Hotel/Motel Key Blanks



Furnished all '0' cuts except for #1 cut on tip of key. Stamped with 'Control'.

"F" bow shown also available "R" bow.

SFIC Key Blanks



Note: SFIC keys are cut from tip to bow. The same key blank can be used for both 6- and 7-pin keys. Only available with Best® keyways A, B, C, D, E, F, G, H, J, K, L and M

KEYWAYS

Simplex/Multiplex Keyways

A simplex keyway is independent, stands alone and cannot be tied into any other keyway to expand a keying system. Multiplex keyways can be used together to expand a keying system.

All/Multi-Section/Single Section Keys

All multi-section keys can be used on more than one cylinder with different sections. For example: a key cut on the GV multi-section key blank will pass cylinder in the GA, GB, GG and GH keyways. Single section keys can only be used with cylinders of the same section. For example: a key cut on the GA single section key blank will only pass a cylinder in the GA keyway.

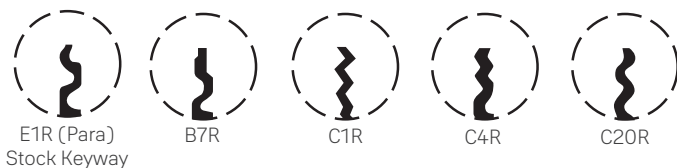
Simplex/Multiplex Keyways

Keyways which are available for new ACCENTRA keying systems are considered active. In the case of new master key systems, the factory reserves the right to select the keyway from a range of standard keyways, based on usage in a particular geographical area. Common active keyways shown below.

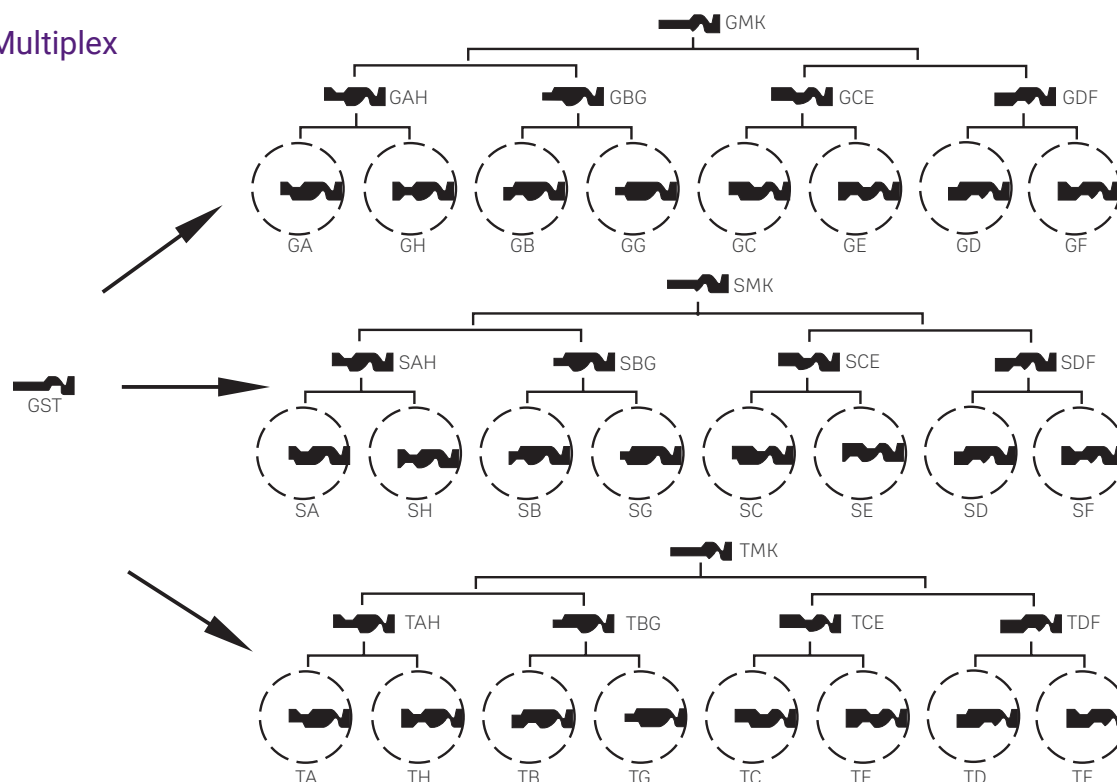
Inactive Keyways

Many older ACCENTRA keyways are inactive. New key systems will not be established on these. However, they continue to be available to support existing keying systems.

Simplex



Multiplex



Notes: The section of the key is determined by viewing the key from the bow towards the tip. For security reasons, restricted and protected keyway profiles are not shown.

CAMS

	Model No.	Description	Application		Model No.	Description	Application
	2160	Std for 2123, 2153, S2053, 2719, 5153, U5153, 5719, 2196, 2197, 2196H, 5196, 5197, 5196H	Steel case mortise or auxiliary locks, exit device alarms and cylinder dogging for 7000 series exit devices.		1161E	Opt for 1194, Std for 2153 when used for 2100 cylinder dogging	Obsolete cast iron mortise locks, cylinder dogging for 2100 series exit devices.
	2130	Std for 2123S, 2153S, S2053S, 2196S, 2197S, 5196S, 5197S	Steel case mortise locks, inside operation for 8817-2 and 8834-2 functions.		1161G	Opt for 1194, 1194H, 5194, 5194H	Keyswitches.
	1160	Std for 1153, S1053H, 1719, 5719, U5719	Obsolete 310 series deadlocks.		1161L	Opt for 1123, 1152, S1052H, 5152, U5152	Adams Rite MS 1800 series locks and 4700 series latches.
	1160E	Std for 1194, 1194H, 5194, 5194H	Obsolete cast iron mortise locks.		1161U	Opt for 1194, 1194H, 5194, 5194H	Corbin Russwin interchangeable core (A01)
	1160L	Opt for 1194, 1194H, 5194, 5194H	Adams Rite MS 1800 series locks and 4700 series latches.		1161T	Opt for 1123, 1152, 1186, S1052H, 5152, U5152	Corbin Russwin fixed core (A01)
	1161	Std for 1123, 1152, S1052H, 5152, U5152	Obsolete cast iron mortise locks.		10-6120-9010	Cam Disc	Filler for hollow mill cams.

All cams and cam disc illustrated actual size.

COLLARS

Simplex/Multiplex Keyways

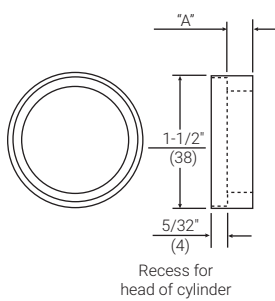
Cylinder collars are supplied as standard where required with products supplied with cylinders. Collar size and thickness are supplied to suit the length of the cylinder, the thickness of the door and the trim ordered. (If door thickness is not specified, collars will be supplied to suit 1-3/4" (44mm) door.)

Collar length required must be specified for cylinders and/or housings ordered separately. Refer to individual product sections for collar applications and sizes.

1765 Recessed Cylinder Collar

"A" Dimension: See chart for available sizes. To order, specify "1765.size" i.e. 1765.250.

Material: Brass, Stainless Steel



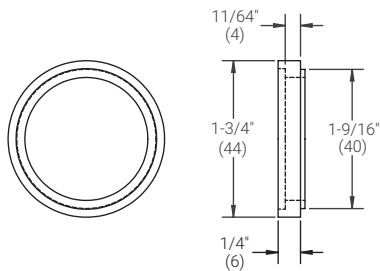
"A" Dimension	
Size	Specify
1/16"	.062
3/32"	.094
1/8"	.125
5/32"	.156
3/16"	.187
7/32"	.219
1/4"	.250
9/32"	.281
5/16"	.312

"A" Dimension	
Size	Specify
11/32"	.344
3/8"	.375
13/32"	.406
7/16"	.437
15/32"	.469
1/2"	.500
17/32"	.531
9/16"	.563
19/32"	.594

"A" Dimension	
Size	Specify
21/32"	.656
23/32"	.719
3/4"	.750
27/32"	.844
59/64"	.924
15/16"	.937
1-15/32"	1.473

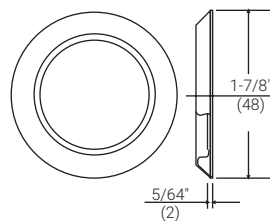
1766 Step Collar for U5109 and U5153 High Security Cylinders.

Material: Stainless Steel



KP4 Flush Mount Cylinder Collar

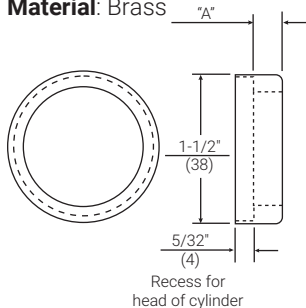
Material: Brass, Bronze



599 Recessed Cylinder Collar

"A" Dimension: See chart for available sizes. To order, specify "599.size" i.e. 599.419.

Material: Brass

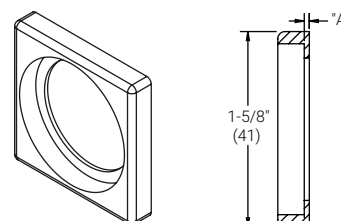


"A" Dimension	
Size	Specify
27/64"	.419
35/64"	.544
45/64"	.700
55/64"	.850
59/64"	.925
1-3/64"	1.040

1767 Square Collar (provided standard with R9 rose)

"A" Dimension: See chart for available sizes. To order, specify "1767.size" i.e. 1767.248

Material: Brass, Stainless Steel



"A" Dimension	
Size	Specify
1/32	.042
1/8	.122
3/16	.192
1/4	.248
5/16	.310
3/8	.373
7/16	.436
1/2	.498
9/16	.560
5/8	.623
11/16	.703
25/32	.788

SERVICE EQUIPMENT

Pins And Pin Kits

ACCENTRA pinning kits contain the components required to key conventional cylinders, both fixed and large format interchangeable core. (.51" plug diameter). All components are packed in a sturdy metal case.

Features

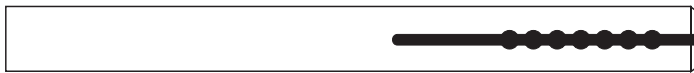
- Pin tray lifts out to provide storage space.
- Pin chart on inside lid for convenient reference.

Pins and springs are packed by size, in bags of 100. Each kit contains bottom pins, master pins, top pins and springs. Both kits include tweezers and a plug follower.

SK-12 Pin Kit - .019" Step				
Model No.	Qty.	Description	Size	Pin Length
SK-12	1	Pin Kit - Complete	.019 Step	---
R19	1	Refill Kit - Complete	.019 Step	---
020	1	Plug Follower	---	---
021	1	Tweezers	---	---
251-0	100	Bottom Pin	0	.182
251-1	100	Bottom Pin	1	.201
251-2	100	Bottom Pin	2	.220
251-3	100	Bottom Pin	3	.239
251-4	100	Bottom Pin	4	.258
251-5	100	Bottom Pin	5	.277
251-6	100	Bottom Pin	6	.296
251-7	100	Bottom Pin	7	.315
251-8	100	Bottom Pin	8	.334
251-9	100	Bottom Pin	9	.353
351-2	100	Top Pin (Driver)	2	.152
351-3	100	Top Pin (Driver)	3	.190
351-4	100	Top Pin (Driver)	4	.230
451-2	100	Master Pin	2	.038
451-4	100	Master Pin	4	.076
451-6	100	Master Pin	6	.114
451-8	100	Master Pin	8	.152
151	100	Spring	---	---

SK-13 Pin Kit - .025" Step				
Model No.	Qty.	Description	Size	Pin Length
SK-13	1	Pin Kit - Complete	.025 Step	---
R25	1	Refill Kit - Complete	.025 Step	---
020	1	Plug Follower	---	---
021	1	Tweezers	---	---
251A-0	100	Bottom Pin	0	.182
251A-1	100	Bottom Pin	1	.207
251A-2	100	Bottom Pin	2	.232
251A-3	100	Bottom Pin	3	.258
251A-4	100	Bottom Pin	4	.282
251A-5	100	Bottom Pin	5	.307
251A-6	100	Bottom Pin	6	.334
251A-7	100	Bottom Pin	7	.357
351-2	100	Top Pin (Driver)	2	.152
351-3	100	Top Pin (Driver)	3	.190
351-4	100	Top Pin (Driver)	4	.230
451A-2	100	Master Pin	2	.050
451A-3	100	Master Pin	3	.076
451A-4	100	Master Pin	4	.100
451A-5	100	Master Pin	5	.125
451A-6	100	Master Pin	6	.152
451A-7	100	Master Pin	7	.175
151	100	Spring	---	---

PINNING TOOLS

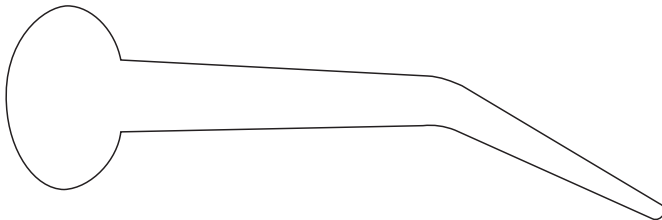


Set up plug

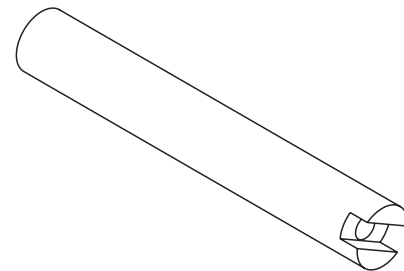
No. M36 For .51" plug

No. M38 For .40" plug

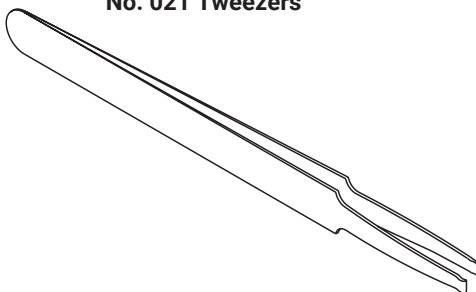
No. M43 Shove Knife



No. 020 Plug Follower For .51" plug



No. 021 Tweezers

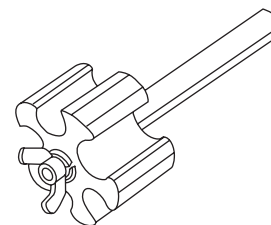
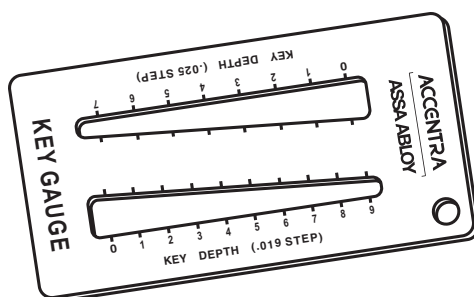


No. M33 Vice Held Plug Holder

Holds the 5 most popular plug diameters:

- .404" (10.26mm)
- .504" (12.80mm)
- .508" (12.90mm)
- .512" (13.00mm)
- .556" (14.12mm)

No. KG1 Key Gauge (.019" and .025" increment)



PARTS

Mortise

Plugs	
Part Number	Description
96-0000-2004	Fixed Core 6-pin, 1-1/8"
96-0000-2005	Fixed Core 6-pin, 1-1/4"
96-0000-2006	Fixed Core 7-pin, 1-1/4"
96-0000-2009	Fixed Core 7-pin, 1-1/2"
96-0000-2013	Fixed Core 6-pin, 1-3/4"
96-0000-2014	Fixed Core 7-pin, 1-3/4"
1210PLG	LFIC 6-pin
1220PLG	LFIC 7-pin

Specify Keyway and Finish

Housings (Less Cam)	
Part Number	Description
10-1194-2033	LFIC 6-pin, 1-1/2"
10-1194-2035	LFIC 6-pin, 1-3/4"
10-1194-0004	LFIC 7-pin, 1-11/16"
10-1194-2036	LFIC 6- or 7-pin, 2"

Specify Finish

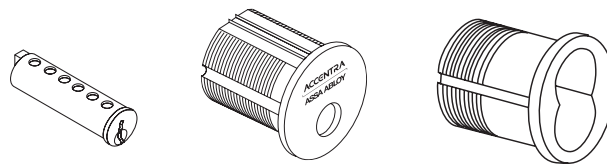
Component

Plugs	
Part Number	Description
96-0000-2154	Fixed Core 6-pin for 1801 or 1802
96-0000-2156	Fixed Core 7-pin for 1801 or 1802
96-0000-2234	Fixed Core 6-pin for 1803

Specify Keyway and Finish

Other	
Part Number	Description
99-9999-4561-999	Plug retainer for 1801 or 1802
99-9999-4001-000	Roll pin for 1802
14-5407-1039-048	Tailpiece for 1802
17-1803-7001	Cap pin spring for 1803
17-1803-2002	Cap pin for 1803
17-1803-2003	Cylinder cap for 1803
10-1194-2302	Spring cover 6-pin for 1803

See pages 15-18 for additional tailpiece part numbers.



Shells	
Part Number	Description
10-1152-2031	Fixed Core 6-pin, 1-1/8"
10-1152-2064	Fixed Core 6- or 7-pin, 1-1/4"
10-1152-2023	Fixed Core 7-pin, 1-1/2"
10-1152-2033	Fixed Core 6- or 7-pin, 1-3/4"

Specify Finish

Other	
Part Number	Description
10-1194-2041-000	Cam hub for 6-pin, 1-1/2" housing
10-1194-2043-000	Cam hub for 6-pin, 1-3/4" housing
10-1194-2041-000	Cam hub for 7-pin, 1-11/16" housing
10-1194-2044-000	Cam hub for 6- or 7-pin, 2" housing
99-9999-4525-999	Plug retainer for 1210 and 1220 core
81-0611-0154-036	Cam screws for 2153, 2196 and 2197

Shells	
Part Number	Description
14-1801-2021-000	Fixed Core 6-pin for 1801 or 1802
14-1802-2050-000	Fixed Core 7-pin for 1801 or 1802
14-1803-2001-000	Fixed Core 6-pin for 1803

PARTS

Rim

Plugs	
Part Number	Description
96-0000-2225	Fixed Core 5-pin for 1109
96-0000-2226	Fixed Core 6-pin for 1109
96-0000-2227	Fixed Core 7-pin for 1109
1210PLG	LFIC 6-pin
1220PLG	LFIC 7-pin
96-0000-2330	Fixed Core 5- or 6-pin for 1709
96-0000-2331	Fixed Core 7-pin for 1709

Specify Keyway and Finish

Housings	
Part Number	Description
10-1193-0041	LFIC 6-pin
10-1193-0042	LFIC 7-pin

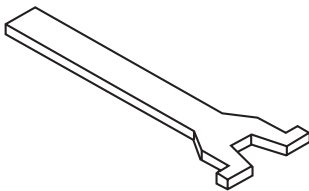
Specify Finish

Shells	
Part Number	Description
34-1109-2027	Fixed Core 5-pin for 1109
34-1109-2028	Fixed Core 6-pin for 1109
34-1109-2029	Fixed Core 7-pin for 1109
10-1709-2096	Fixed Core 5- or 6-pin for 1709
10-1709-2099	Fixed Core 7-pin for 1709

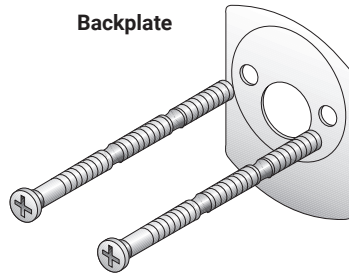
Specify Finish

Other	
Part Number	Description
34-1145-1002-059	1145 Tailpiece
34-1147-1003-059	1147 Tailpiece
34-1145-1005-059	Von Duprin Tailpiece
34-0010-1015-059	Backplate
34-2311-8738-048	Mounting screws for 1109
10-1193-1018-049	Mounting screws for 1193
34-1451-1003-000	Plug retainer for 1109
99-9999-4561-999	Plug retainer for 1709
14-3511-6102-082	Lazy cam for 1709
14-3511-1014-048	D-Ring for 1709
10-1451-1010-048	Tailpiece for 1709
14-3511-1013-048	Lazy cam collar for 1709

Tailpiece



Backplate

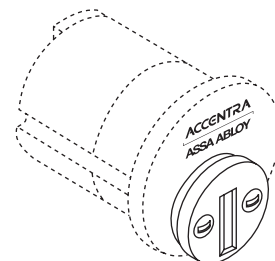


Retainer

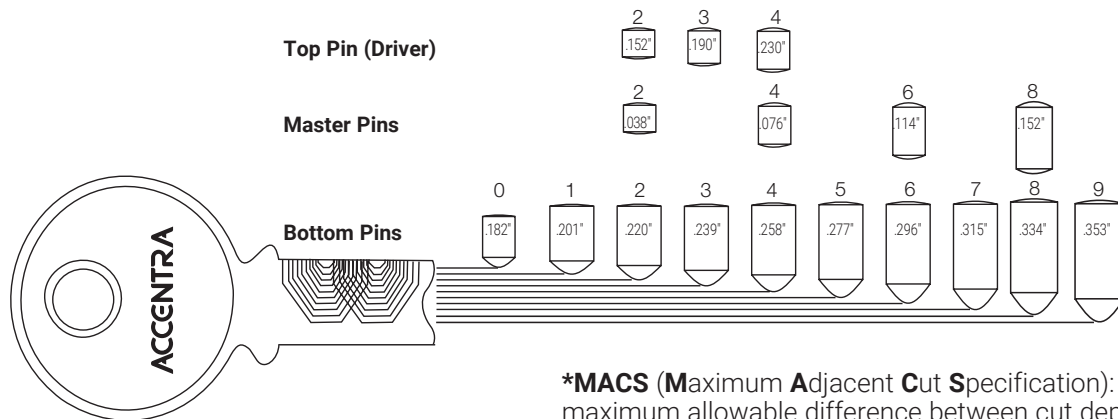
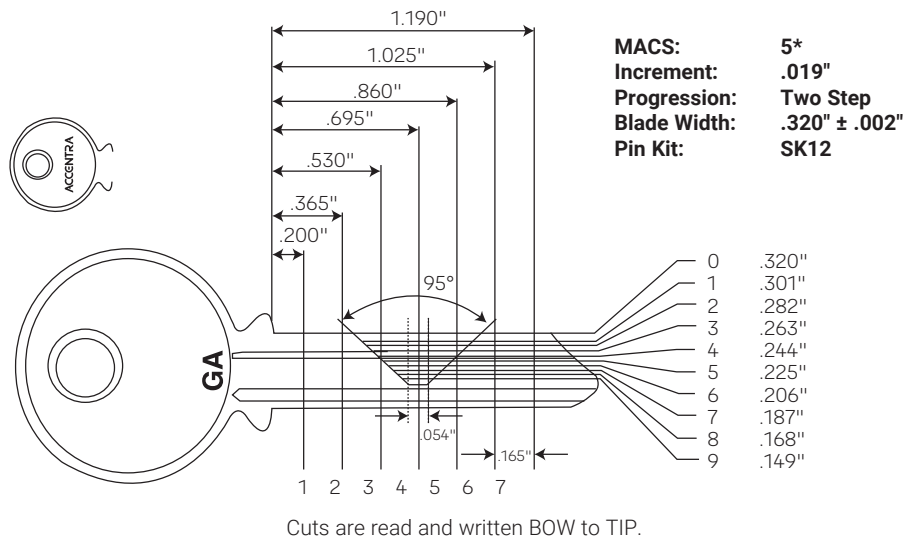


Dust Shields

Cylinders are available with a dust shield to protect the pin tumblers and plug from the penetration of dust, sand and other contaminants. To order, prefix the cylinder model number with the letter "D", i.e. D2153. Dust shields are not available with any cylinder using "A" bow keys.

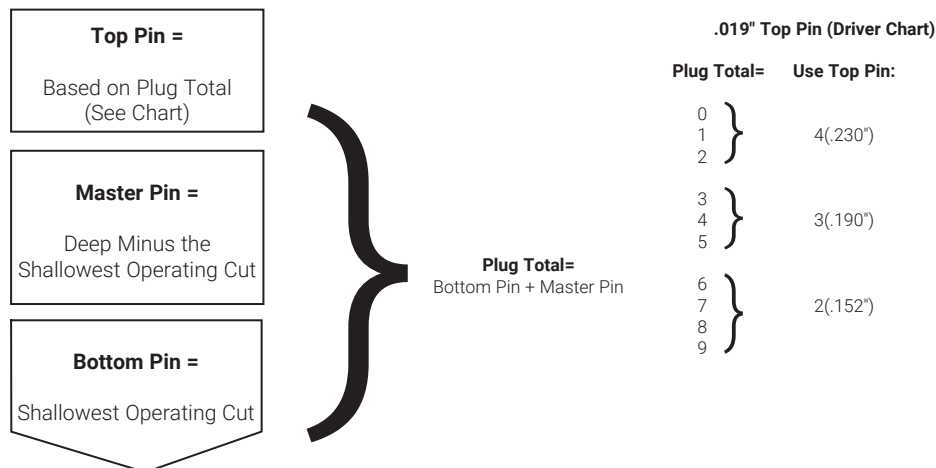


.019" SPECIFICATION

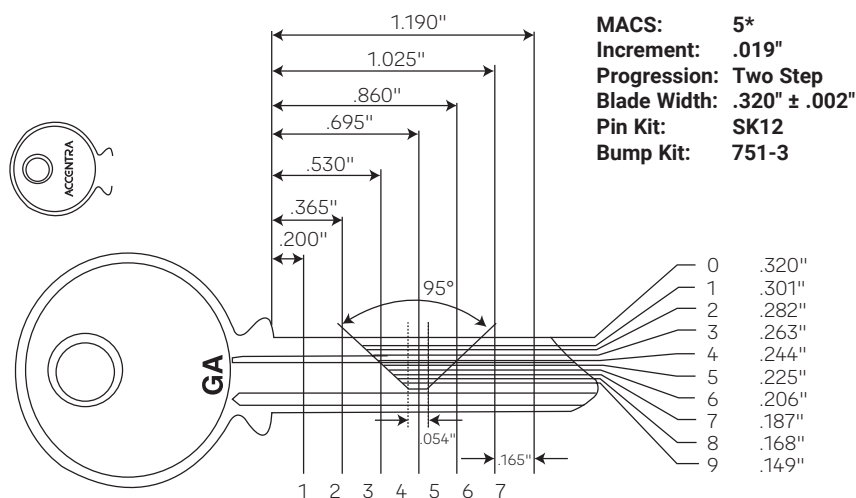


***MACS (Maximum Adjacent Cut Specification):** the maximum allowable difference between cut depths.
Note: Illustrations are not drawn to actual size.

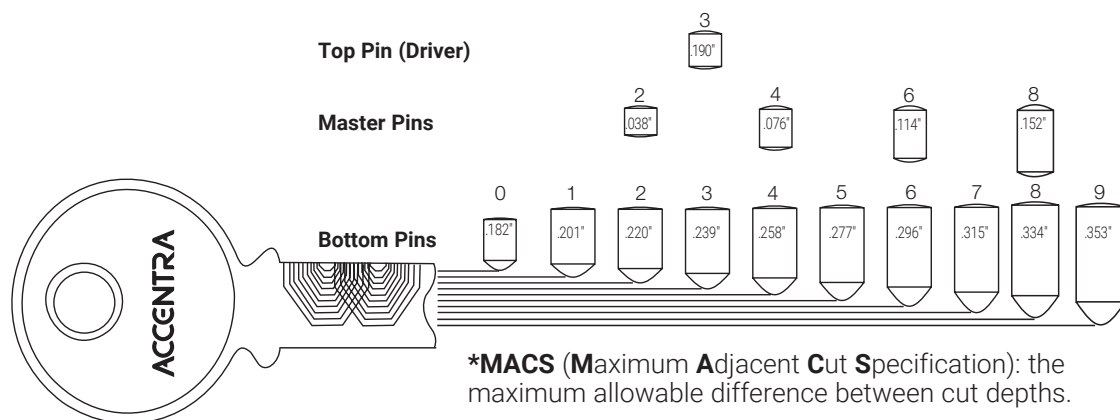
Pinning Formula



.019" SPECIFICATIONS FOR BUMP RESISTANT CYLINDERS



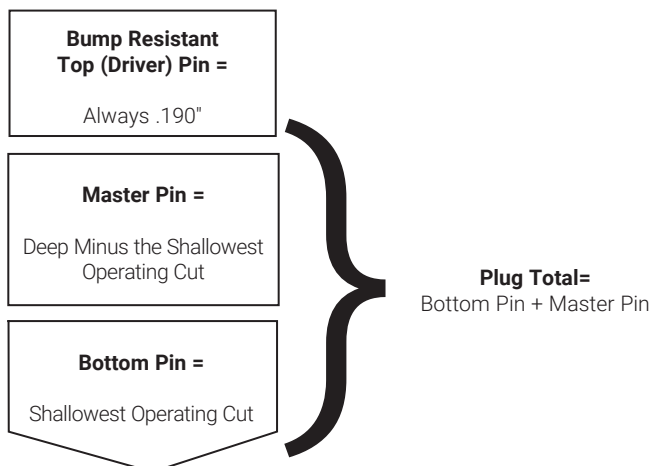
Cuts are read and written BOW to TIP.



***MACS (Maximum Adjacent Cut Specification):** the maximum allowable difference between cut depths.

Note: Bump resistance is only achieved when all chambers include a bump resistant pin. Illustrations are not drawn to actual size or configuration.

Pinning Formula



POLICIES AND PROCEDURES

Procedures

ACCENTRA keying systems utilize the Standard Key Coding System illustrated on the following pages. To ensure prompt and accurate processing, purchase orders should be written using these key symbols to describe each master keyed item. In addition to the key symbol, ACCENTRA requires the following information on the keying system for ALL orders:

- End User (job) Name
- City, State, Zip Code
- Special key bows or key stamping
- VKC/CKC requirements (see page 5)

Existing System Add-Ons

For prompt processing, orders must include a positive identification for the keying system in addition to the job name, city, state and ZIP code. Any ONE of the following is positive ID:

- Registry number stamped on any existing factory master key
- Previous factory order number together with the year of that order

Existing System Add-Ons

No letter is needed when the items are to be drop shipped directly to the end user. In all other cases, to preserve the security of the end user's keying system, ACCENTRA requires a letter of authorization on the end user's letterhead to obtain the following:

- Bitting lists
- Security blanks and cut keys
- Master level cut keys
- Patented key blanks, cylinders and plugs

The letter of authorization can be brief but should include a specific description of what is being authorized for release, and a positive key system identification.

XYZ Corporation 1 Main St. Anytown, USA 00001 (203) 555-5555 (Current Date) Key Systems Dept. We authorize Acme Distributors to obtain a copy of the bitting list for our keying system R75235. We also authorize them to order the quantities of master keys on our attached purchase order 1234AB. Sincerely, Gordon Morris Security Director

New Systems Or New Branches Of Existing Systems

Indicate system expansion in terms of estimated numbers of key combinations, not doors. All of this information is essential at the inception of a keying system in order for ACCENTRA to ensure that the end user's present and future security requirements are met. Advise as follows:

- How many levels of keying?
- Plan for a construction master key?
- Any selective master keys, such as ENG?
- How many changes for each master?
- How many masters for each grand master? If mixing ACCENTRA cylinder types, indicate clearly where each type of cylinder will be used within the expansion parameters:
 - Which masters or grands have security cylinders under them?
 - Which have interchangeable cores?
 - Which have conventional cylinders?

ASSA ABLOY FLASHship™ Masterkey Program

The **ASSA ABLOY FLASHship™** program is proud to offer the most comprehensive masterkeying program in the industry. Enjoy the convenience of masterkeying up to 250 cylinders and 200 change keys with 24 hour processing! This simple Level 2 masterkey system is available for ACCENTRA cylinders, locks, and exit trim in the PARA keyway.

You can now also expand existing FLASHship Masterkey systems with the easy FLASHship online order entry process. Simply provide either the job name, original FLASHship order number, or the system registry number to order. Please ask your Door Security Solutions sales consultant for a demonstration of the order process.

DESIGNING MASTER KEY SYSTEMS

Step 1

Determine the type of locking system

- Conventional "open & restricted keyways"
 - Not contract controlled
- Patented locking system
 - A notice of acceptance will be required between ACCENTRA and Owner
 - Factory-based system
 - Key blank distribution restrictions are in place
- Security (secondary locking mechanisms)
- High security (same as Security plus UL437)
- Stand-alone access control locking devices (at door wiring)
 - To facilitate multiple users through common doors
- Integrated locking systems (hard wired into access control systems)

Step 2

Establish the level of the master key system. The higher the level the less secure.

- Level two – "Simple Master Key system"
 - Change key, and master key only
- Level three – "Grand Master Key system"
 - Change key, master key, and grand master key
- Level four – "Great Grand Master Key system"
 - Change key, master key, grand master key
- Levels higher than four are not recommended for security reasons
 - With more levels, additional master pins in each chamber of the cylinder would be required, and with the additional master pins the possibility of unauthorized key interchanges could occur

See pages 33-35 on How to Establish Key Systems.

Step 3

Establish key hierarchy, key issuing policies and procedures, and administrative disciplines.

- Who, if anyone, is authorized to carry the top master key?
- Who carries master keys and change keys?
 - Does every employee receive a key?
- What disciplinary action(s) is being put in place for violations?
 - Fines or Deposits
 - - Lost keys
 - - Keys not returned
 - Will there be a key receipt required?
 - - Where will that be kept?
- Who is the systems administrator?
 - Authorized to purchase
 - Responsible for Key Control Administration
- Who is the Key Control Administrator?
 - Maintain key control software & all transactions

Step 4

System Layout

- Helpful Hints
 - KISS "Keep It Simple System"
 - - Do not use the term sub-master (not unless it's level 6 and higher)
- Lowest level possible
- Key to the building security objectives NOT to the people
 - Determine if the system is to be designed for Security or Convenience
- No cross keying, especially with patented locking systems and higher
- Key alike within master key groups as much as possible
 - Avoid top-heavy systems (example; few change keys used under masters)

- Has the right function of lockset been selected?
 - Storeroom vs. Classroom vs. Entry
 - Single cylinder vs. double cylinder
 - - If double cylinder, how is the inside cylinder to be keyed?
- Provide adequate quantity of keys
 - Top master keys "limit the number of these to only a few"
 - Master keys "also limit the number these"
 - Change keys per key set and/or per keyed alike sets
 - Special operating keys
 - - Control keys "limit the number of these"

Separate the internal departments into sectors, example are:

- Perimeter
 - Including all exterior doors, roof surfaces, gates and fences, and adjacent buildings.
- Operations
 - Sensitive areas crucial to daily operations, such as plant engineering, security and mechanical operations.
- Management
 - Areas that are vital for daily business activities, primarily human resources, administration, executive offices, IT, sales, and accounting.
- Services
 - Areas that provide employees and visitors with services, such as restrooms, medical treatment areas, housekeeping, food service, retail (unless it's a leased outside source).
- Unique Applications
 - Door openings requiring access control hardware where key override is required, or any other special application which would be unique.
- Tenants
 - Any tenants that are not part of the building.

Step 5

Servicing & Maintenance

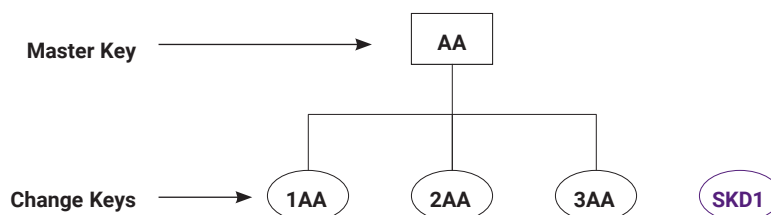
- In-house or outside locksmith
 - Ensure proper training
 - Establish key cutting log
 - Establish service request procedures
- Service equipment
 - Key kit
 - Code cutter that complies with systems depths & spacing specifications
 - Locksmithing tools, fixtures & accessories
- Establish stock levels & requirements to avoid misuse of multi-section key blanks
 - Additional cylinders ready for emergencies
 - Additional key blanks (of all keyways)
- Who or where are the key blanks going to be kept?
- Who is authorized to cut keys?
 - What form of work order will be used to authorize cutting of keys?
 - Who will sign the work order?
 - What records will be kept & where?
- What type of reports will be required?
 - Overdue keys
 - Miss-cut keys
 - - Who receives the reports?
- Once a key has been cut, what instructions are given to the recipient?
 - Key receipt recommended
- Ensure that all transactions are recorded by the Key Control Administrator
- ENFORCEMENT FROM THE START! SUPPORT AND BACK THOSE WHO ARE RESPONSIBLE FOR MAINTAINING AND SERVICING THE SYSTEM.

HOW TO ESTABLISH MASTER KEY SYSTEMS

Simple Master Key System (2 Levels of Keying)

The master key symbol consists of TWO letters, such as **AA**. The change key numbers are added to the master key letters. The numbers come FIRST: **1AA, 2AA, 3AA**, etc.

When locks are required which are not operated by the master key or other change keys in the system, they are referred to as "single keyed" and given symbols **SKD1, SKD2**, etc. When all higher levels of master keys are to be disallowed, suffix (**NMK**) to the symbol of the key which is to operate. This means "not master keyed." Cylinder **1AA(NMK)** is operated by **1AA** only. The **AA** master is blocked from operation.



Grand Master Key System (3 Levels of Keying)

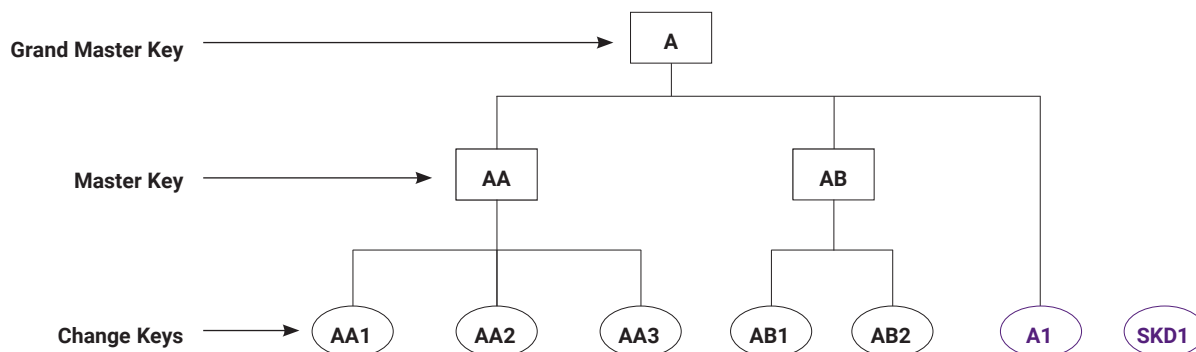
The grand master is assigned any ONE letter, such as A. The master keys under this grand are assigned TWO letters, the first of which must be the same as the grand: **AA, AB, AC**, etc. are all masters under grand **A**. Caution: Do not use the letters **I, O** or **Q** because of possible confusion with the numerals 1 and 0, respectively. Also do not use the letter **X** due to confusion with cross keying. Change key numbers come after the letters.

For master keys beyond **AZ**, insert a numeral between the letters to designate which pass through the alphabet they represent. **A2A** through **A2Z** represents the second pass of masters under grand **A**. **A3A** through **A3Z** would be the third. Change keys under these masters have the numbers suffixed in the usual way: **A2A1, A2A50**, etc.

If the cylinder is to be operated by its change key and nothing lower than the single lettered GMK, the change number is added to the GMK symbol. This is illustrated by the example **A1** in the schematic shown.

When locks are required which are not operated by ANY master keys or other change keys in the system, they are referred to as "single keyed" and given symbols **SKD1, SKD2**, etc.

When all higher levels of master keys are to be disallowed, suffix (**NMK**) to the symbol of the key which is to operate. This means "not master keyed" and can be applied to any level in the system. Cylinder **AA1 (NMK)** is operated by **AA1** only. The **AA** master and **A** grand are blocked from operation. Cylinder **AA (NMK)** would be operated by the **AA** master only. Grand **A** does not operate.



HOW TO ESTABLISH MASTER KEY SYSTEMS

Great Grand Master Key System (4 Levels of Keying)

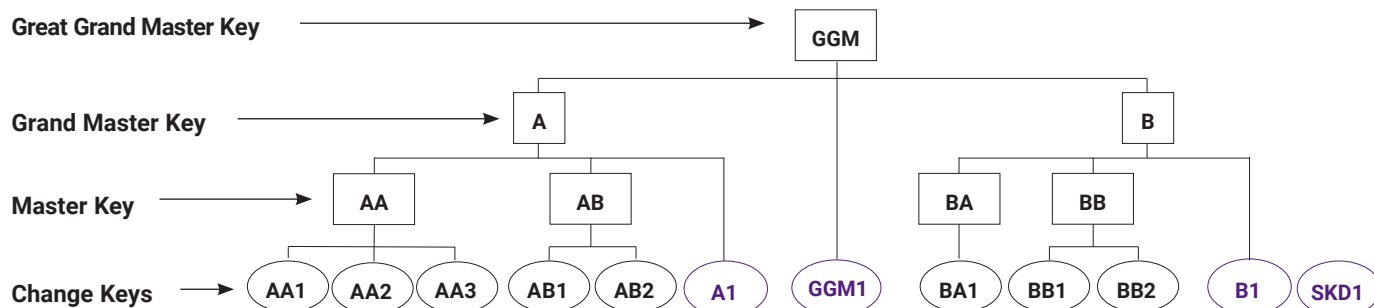
The great grand master key is assigned the symbol **GGM**. The rest of the symbols are the same as those in 3-level systems: The GMKs are assigned single letters, e.g., **A, B, C, D**, etc. Caution: Never use **X** for a grand master key due to the confusion which will result with cross keying symbols presented on page 35.

Masters under each GMK are assigned two letters, the first of which is the same as its respective grand master key. Change key numbers come after the letters. Changes under the grand (**A1, B1**, etc.) and masters beyond **AZ** are handled exactly as in the 3-level system already described.

Changes directly under a grand are also handled as illustrated in the 3-level system. For changes directly under the **GGM** with no intermediate level masters, the change number is added directly to **GGM** as shown by the example **GGM1** in the schematic.

When locks are required which are not operated by ANY master keys or other change keys in the system, they are referred to as "single keyed" and given symbols **SKD1, SKD2**, etc.

When all higher levels of master keys are to be disallowed, suffix (**NMK**) to the symbol of the key which is to operate. This means "not master keyed" and can be applied to any level in the system. Cylinder **AA1 (NMK)** is operated by **AA1** only. The **AA** master, **A** grand and **GGM** are all blocked from operation. Cylinder **AA (NMK)** is operated by the **AA** master only. Grand **A** and the **GGM** do not operate. Cylinder **A (NMK)** would be operated by the **A** grand only, without the **GGM**.



Selective Master Keys

It is often useful in large keying systems to issue a high level master key to maintenance personnel which allows access across all master and grand master key boundaries of a keying system. A selective master key is usually very close to the system's top master key, both physically and through its realm of access. Nevertheless, it must be blocked from operating in many areas.

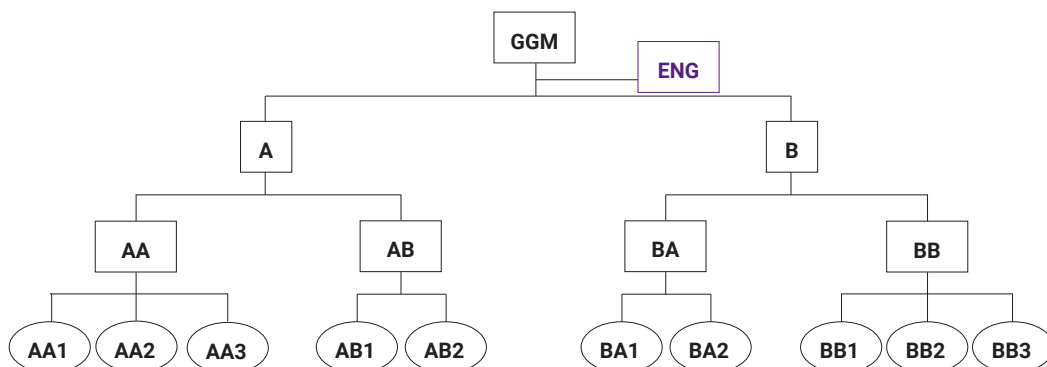
The most common names and symbols for selective master keys are:

ENG	Engineer's key
ATT	Attendant's key
JAN	Janitor's key
HKP	Housekeeper's key
GRD	Guard's key
MAIN	Maintenance

To designate that a lock be operated by a selective master key, suffix the symbol in parentheses to the standard symbol. Example: **AA1 (ENG)**. This must be added every time the selective key is to operate and left off whenever the selective key is NOT to operate. For instance, you may lay out a system in which key **AA1** is to operate two different

offices. Inside one of them is an electrical cabinet which must be accessible to maintenance personnel carrying the **ENG** key. That lock must be specified as **AA1 (ENG)** while the lock for the other office must be specified as **AA1**. Change keys directly under the selective key, such as **ENG1**, are operated by all higher level keys, such as **GGM**.

Like cross keying, a selective master key is a convenience feature which decreases the security of the cylinders it operates and limits the expansion and flexibility of the overall keying system.



HOW TO ESTABLISH MASTER KEY SYSTEMS

Convenience May Reduce Cylinder Security and Hinder System Expansion

Whenever two or more different keys such as **AA1** and **AA2** are both required to operate the same cylinder, the cylinder's security is reduced. This is called cross keying. When the cross keying occurs under all the same higher level keys, such as **AA1** and **AA2**, it is known as controlled cross keying. When it combines keys under different higher level keys, such as **AA1** and **AB1**, it is known as uncontrolled cross keying.

In addition to reducing the security of the cylinder, cross keying usually imposes limits on the flexibility and expansion of the overall keying system. This is especially true of uncontrolled cross keying. For these reasons, it is strongly recommended to allow personnel to carry more than one key. Cross keying should be discouraged whenever possible. However, when cross keying is required, it is specified as follows, and should be summarized at the beginning of each order.

Case #1

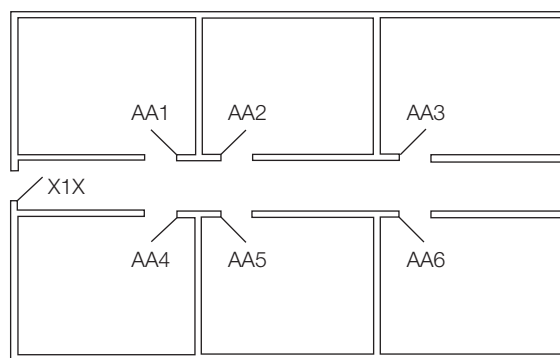
Cylinder requires its own change key. The illustration depicts part of a small medical building where two doctors share a common receptionist. The receptionist gets the **AA3** key. Each doctor carries a key which operates only one office, but is also cross keyed into the entrance from the corridor.

Determine the symbol of the change key (example: **AA3**). Then prefix the letter X (example: **XAA3**). Then list all keys which are to operate in an "operated by . . ." phrase. Example: "**XAA3** operated by **AA1**, **AA2**, **AA** and **A**". Note that **X** is a cylinder specification only. The keys for cylinder **XAA3** are designated **AA3**.

Case #2

Cylinder does NOT require its own change key. This illustration depicts a section of a floor in a dormitory. Each student's bedroom key operates the hall door lock. There is no need to construct a key which operates only the hall door.

In this case, place an **X** at both the beginning and end of the symbol and a number between them. Example: **X1X**, **X2X**, etc. Again, always include the "operated by . . ." phrase with a complete listing of key symbols to operate.



X1X operated by AA1 through AA6, AA and A.

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