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Cylinders / Keys

Cylinders and Keying Manual

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GENERAL INFORMATION

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Finishes

Yale cylinders are available in either sprayed powder coat or plated finishes. Refer to product listings for finish availability. When applicable, specify finish by symbol only.

US Symbol	Description
US3	Bright Brass, clear coated
US4	Satin Brass, clear coated
US9	Bright Bronze, clear coated
US10	Satin Bronze, clear coated
US10B	Satin Bronze, oxidized and oil rubbed
US26	Bright Chrome Plate
US26D	Satin Chrome Plate
US32	Bright Stainless Steel
US32D	Satin Stainless Steel

Cylinder Applications

This catalog section outlines the various cylinders for operations with different Yale locks. Also detailed are the options within those cylinder families which are available for your applications.

Current Yale Product	Standard Cylinders	Optional Cylinders	Cylinder Rings	Refer to Pages
8700/8600/4600 Mortise Locks	2153, 2719, 2153S, 2123, 2123S	2196, 2197, 2186 5153, U5153, 5196, 5197	1135, 1134, 1765	6-10, 18-20, 29
4300,4300LN Tubular Locks	1812	----	----	11
5300, 5400, 5500 Cylindrical Locks with Knobs	1801, 1801A, 1808	5801, 5801A, 1210, 1220, 5210, 5220	----	11, 12, 19
5300LN, 5400LN, 6400LN Cylindrical Locks with Lever Handles	1802, 1802A, 1802L	5802, 1210, 1220, 5210, 5220	----	11, 12, 19
1500, 2100, 7100, 7200 Exit Devices	2153, 1109, 1801, 1802	2196, 2197, 1709C, 1193	1765	6, 7, 12, 16, 20, 29
Auxiliary Locks 80, 88, 112, 112-1/4, 197, 197-1/4	1109E	1109, 1193	1762	13, 14, 29
Tubular Deadbolts 3300 Series	A1820, A1821, C1821	----	----	14
3400 Series Removable core	1210, 1220	5210, 5220	----	12, 20
300 Series Mortise Deadlocks	1153, 5153, U5153	1196, 1197, 5196, 5197	1135 Std., 1134, 1765 Opt.	6, 7, 19, 20, 29
Adams Rite Store Door Locks	1152 x 1161L	1194 x 1160L	1134	15, 29
Replacement Cylinders 4000/8000 series Cast Iron Mortise Locks Other applications	1123, 1152 Std., 1153 (For 1" Throw Deadbolts), 1718, 1719	1194, 1196 (for 1" Throw Deadbolts)	1135 1765	6-9, 29

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KEYING

Cylinders

Yale cylinders are available within a choice of keying systems to meet the degree of security desired for the facility requirements.

All standard and optional cylinders have a .51" diameter pin-tumbler plug and are regularly provided with a 6-pin brass cylinder and RB8 (5 pin) keys. RN11 (6 pin) keys are furnished when required. The 7 pin brass cylinders are furnished with RN117 (7 pin) keys.

Cylinders are normally supplied with two keys. All other keys, such as master keys, control keys, construction keys and breakout keys, must be specified as separate items, including how many of each are required.

Keying

Key systems are furnished in any of the following arrangements.

- Keyed Alike (KA)
- Keyed Different (KD)
- Master Keyed (MK)
- Grand Master Keyed (GMK)
- Great Grand Master Keyed (GGMK)
- Construction Keyed (CMK)
- Maison Keyed

Master Keying

There are several types of master key systems:

•**Simple Master Systems -** Each lock has its own individual key which will not operate any other lock in the system, but all locks in the system can be operated by the master key.

•**Grand Master Systems -** Each lock has its own individual key as in the simple master key system and the locks are divided into two or more groups. Each group is operated by a Master Key and all groups or the entire system is operated by the Grand Master Key.

•**Great Grand Master Systems** (or higher levels of keying) - Each lock has its own individual key, and the locks are divided into additional sub groups as needed including master keys and grand master keys with all groups, or the entire system operated by a Great Grand Master Key.

With input from the keying conference, Yale can design the master key system required for the security needs of any property.

Construction Keying

Most .51" pin tumbler cylinders can be provided with construction keying for use by architect or contractor personnel during building construction. Construction keys are used during the time when the building is being constructed. Only those designated users can access the lock during this phase.

A special break out key is used to permanently void the construction key. This action eliminates further use of the construction or break out key following completion of construction. These are available with all cylinder options except high security cylinders. To order, suffix "C" to list no., i.e. 1801CGMK.

Interchangeable core jobs with construction master keying further require a construction control key to install and remove cores during the construction phase. The order must include the names and addresses of individuals to whom the construction keys and the permanent master and change keys should be sent.

SKD Caution (Single Keyed)

Unless otherwise specified, SKD sets will not be construction master keyed. Doing so would significantly limit the system's expansion and decrease the security of these locks. When construction master keying is required for SKD sets, Yale recommends issuing the SKDs on an unrelated keyway with their own (separate) CMK. The order should specify how the SKDs should be handled.

Temporary Construction Core

A more secure method of construction keying for interchangeable core hardware is the use of temporary construction cores. Yale 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 Yale for credit.

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KEYING

Key Sections / Keyways

There are three types of Yale key sections.

1. Standard Simplex Keyway - Yale cylinders are supplied with the E1R (PARA) simplex keyway as standard unless otherwise specified.

E1R

2. Simplex Keyways - Single keyways which are used for keyed different, keyed alike or small master key systems when only one keyway is required.

B7R C1R C4R C20R

.40 Surety Sections

JA JB JC

JD JE JF

JG JH JK

JMK

Standard Surety Family Shown
Restricted K Family Available

.40 Simplex Sections

E3R

3. Surety Keyways - Also referred to as multiplex keyways use a variety of different shaped keyways (the keys will not interchange). The master key section is milled to pass all the different keyways of a particular series. Surety keyways are used on large or complex master key systems.

GST

GMK

GAH GBG GCE GDF

GA GB GC GD GE GF GG GH

SMK

SAH SBG SCE SDF

SA SB SC SD SE SF SG SH

TMK

TAH TBG TCE TDF

TA TB TC TD TE TF TG TH

*The section of the key is determined by viewing the key from the bow towards the tip.

Hotel / Motel Keying

A variety of keys are used in a key system designed for hotels.

These are:
RN411 Guest's Key: Operates only the lock or locks of one room or suite.

FN411 Maid's Key: Maid's master key operates one group of locks, generally the guest room entrances and linen closets on one floor serviced by one maid, except when guest locks door from inside, projecting indicator button. Access can only be gained by emergency shut-out or display keys.

FN411 Housekeeper's Key: Housekeeper's master key operates a number of maid's groups, generally the entire guest room portion. These are furnished only with great grand master key systems, and only when requested.

FN411S Emergency/Shut-Out Key: Operates all guest room locks even when locked from the inside. It is also a shut out key, locking a guest room so that it cannot be opened by any other keys in the system, except the individual display key.

FN411S Display Key: For guest rooms used as sample rooms or when extra security or privacy is required. This key locks a single guest room or suite against other keys except the emergency/shut-out key.

FN411 Grand Master Key: Operates locks controlled by housekeeper, chef, master mechanic, and other master keys (generally all locks in the hotel). The grand master key does not operate as an emergency shut-out key.

Note: The Hotel/Motel guest room Key System can be keyed and Master Keyed with cylindrical locks, mortise locks, auxiliary locks, padlocks and exit devices. This includes hotel mortise lock functions using the standard mortise cylinders. They cannot be keyed with hotel interchangeable core mortise lock cylinders.

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KEYING

Yale Hotel Function

When ordering a factory keyed lock system that includes hotel function locks that are to be operated by the GMK, MK & change keys, all the cylinders have to be 7 pin length with 7 pin keys. This applies even though actual key system may be just 6 pins. See examples below.

If locks are ordered with temporary keyed alike cores and several hotel locks are included on the order, the chance for error when ordering permanent keyed cores is greatly increased.

All Hotel locks on the order must be furnished with 7 pin length cylinders in order to accommodate top keys.

Hotel Lock Functions

8720 8732 8727 5420 5320

EXAMPLE #1 (standard cylinders)

WITHOUT HOTEL LOCKS			WITH HOTEL LOCKS		
Lock	**Cylinder**	**Key**	**Lock**	**Cylinder**	**Key**
AU5407LN	1802	RN11	AU5407LN	1802A	RN117
AUR8707FL	2153-1-1/8	RN11	AUR8707FL	2153 1-3/8	RN117
AU526*	1109	RN11	AU526*	1179	RN117
			AUR8727FL	2719 1-3/8	RN411
MASTER KEY		RN11			FN411
EMERGENCY KEY		------			FN411S

EXAMPLE #2 (interchangeable core cylinders)

WITHOUT HOTEL LOCKS			WITH HOTEL LOCKS		
Lock	**Cylinder**	**Key**	**Lock**	**Cylinder**	**Key**
AU5407LN	1210	RN11	AU5407LN	1220	RN117
AUR8707	2196-1-1/2	RN11	AUR8707FL	2197 1-11/16	RN117
AU526*	1193	RN11	AU526*	1193 7 pin	RN117
			AUR8727FL	2196H 1-11/16	RN117
MASTER KEY		RN11			RN117
CONTROL KEY		FN117			FN118

EXAMPLE #3 (KA temporary cores)

WITHOUT HOTEL LOCKS			WITH HOTEL LOCKS		
Lock	**Cylinder**	**Key**	**Lock**	**Cylinder**	**Key**
AU5407LN	1210	RN11	AU5407LN	1220	RN117
AUR8707FL	2196-1-1/2	RN11	AUR8707FL	2197 1-11/16	RN117
AU526*	1193	RN11	AU526*	1193 7 pin	RN117
			AUR8727FL	2196H 1-11/16	RN117
PERMANENT MASTER KEYED CORES			**PERMANENT MASTER KEYED CORES**		
MASTER KEY		RN11			RN117
CONTROL KEY		FN117			FN118
CHANGE KEY	1210	RN11		1220	RN117
				1210H	RN117

EXAMPLE #4 (KA temporary cores & high security permanent cores)

WITHOUT HOTEL LOCKS			WITH HOTEL LOCKS		
Lock	**Cylinder**	**Key**	**Lock**	**Cylinder**	**Key**
AU5407LN	1210	RN11	AU5407LN	5220	AN117
AUR8707FL	2196-1-1/2	RN11	AUR8707FL	5197 1-11/16	AN117
AU526*	1193	RN11	AU526*	5193 7 pin	AN117
			AUR8727FL	5196H 1-11/16	AN117
PERMANENT MASTER KEYED CORES			**PERMANENT MASTER KEYED CORES**		
MASTER KEY		AN11			AN117
CONTROL KEY		FN117			FN118
CHANGE KEY	5210	AN11		5220	AN117
				5210H	AN117

*Exit Device locking trim keyed to Hotel Master key System.

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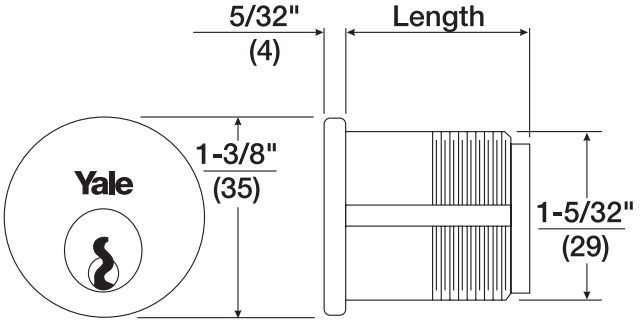
MORTISE CYLINDERS

Steel Case Mortise Locks

Cylinder Rings: List Number 1134, 1135 and 1765 are supplied with Yale Mortise Locks depending upon the Trim Design selected. Ring size and thickness must be supplied to suit the length of the cylinder, the thickness of the door and the type of trim ordered.

When Standard Cylinders are ordered separately, List No. 1135 Cylinder Ring will be supplied unless otherwise specified on order. (To receive correct rings specify door thickness and trim design). List numbers 1134 or 1765 are available to special order. When ordered separately, finish information required.



For Use With 4600, 8600 & 8700 Series Steel Case Mortise Locks

Cylinder List No.	Applications	Cams	Standard Lengths		
			5 Pin	6 Pin	7 Pin
2153	Standard Cylinder	2160	1”	1-1/8” 1-1/4” 1-3/8” 1-1/2” 1-5/8” 1-3/4”	1-1/4” 1-3/8” 1-1/2” 1-5/8” 1-3/4”
2153S	For inside operation 8717-2 and 8634-2 lock functions only.	2130	1”		
2123	Same as 2153 but long lengths for exceptionally thick doors.	2160	---	1-7/8” thru 3-1/2” in 1/8” increments	
2123S	Same as 2153 but for inside operation of 8717-2 and 8634-2 lock functions only.	2130	---		
2719	For Hotel/Motel Locks 8720, 8620, 8727, 8732, 8632.	2160	---	1-3/8”	---

Other Applications

For Use With 4000/8000 Series Cast Iron Mortise Locks and Other Applications

Cylinder List No.	Applications	Cams	Standard Lengths		
			5 Pin	6 Pin	7 Pin
1152	Standard Cylinder except for 1” throw deadbolts.	1161	1”All List Nos. ---	1-1/8” 1-1/4” 1-3/8” 1-1/2” 1-5/8” 1-3/4”	1-1/4” 1-3/8” 1-1/2” 1-5/8” 1-3/4”
1153*	Standard for 1” throw deadbolts.	1160			
1123†	Same as 1152/1153 but long lengths for exceptionally thick doors.	1161	---	1-7/8” thru 3-1/2” in 1/8” increments	
1718	For Hotel locks 4642, 8642 & 8643.	1161	---	1-3/8” both list nos.	---
1719	For Hotel locks 4644 & 8644 with 1” throw deadbolt and 4645 & 8645 with 7/8” throw.	1160	---		---

†When used with a 1” throw deadbolt suffix the cylinder list no. with a 1160 List No. cam; i.e. 1123 x 1160.

*STD. Cyl. furnished with 300 Series Mortise Deadlocks.

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INTERCHANGEABLE CORE MORTISE CYLS.

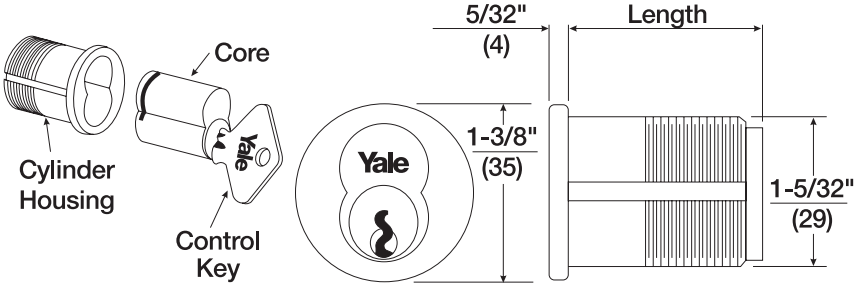
Steel Case Mortise Locks

List Number 2196, 2197, 2196H, 2196S and 2197S

Cylinders are available as options for Yale mortise locks as listed in the chart. These cores are interchangeable with other Yale locks with corresponding interchangeable core list numbers.

Cylinder Rings: List number 1134, 1135 and 1765 are supplied with Yale mortise locks depending upon the trim design selected. Ring size and thickness must be supplied to suit the length of the cylinder, the thickness of the door and the type of trim ordered.

When ordered separately, list no. 1135 cylinder ring will be supplied. List numbers 1134 or 1765 are available to special order. When ordered separately, specify finish.



For Use With 4600, 8600 & 8700 Series Steel Case Mortise Locks

Cylinder List No.	Pins	Length	Housing Assy. Less Core	Core List No.	Cams
2196	6	1-1/2”	2221	1210	2160
2197	7	1-11/16”	2213	1220	2160
2196H	6	1-11/16”	2213	1210H	2160
2196S*	6	1-1/2”	2214S	1210	2130
2197S*	7	1-11/16”	2217S	1220	2130

* For inside operation of 8717-2 and 8634-2 lock functions only.

Note: When ordering interchangeable core cylinders or cores only, control keys are not furnished. If control keys are required they must be ordered separately.

Cast Iron Mortise Locks & Other Applications

List Numbers 1194 and 1196

Yale mortise locks are available with the Yale interchangeable core cylinders. These cores are interchangeable with other Yale brand products using corresponding core list nos. These cylinders are available in 6 or 7 pin systems as indicated in the chart.

Cylinder Rings: List numbers 1135 and/or 1134 cylinder rings are normally supplied with these cylinders. List no. 1765 cylinder ring is available to special order. Ring size and thickness must be supplied to suit the length of the cylinder, the thickness of the door and the type of trim ordered.

For Use With 4000/8000 Series Cast Iron Mortise Locks and Other Applications

Cylinder List No.	Pins	Length	Housing Assy. Less Core	Core List No.	Cams
1194	6	1-1/2”	1214	1210	1160E
1194	7	1-11/16”	1214H	1220	1160E
1194H	6	1-11/16”	1214H	1210H	1160E
1196†	6	1-1/2”	1221	1210	1160R
1196†	7	1-11/16”	1213	1220	1160R
1196H†	6	1-11/16”	1213	1210H	1160R
1198H**	6	1-11/16”	1213A	1210H	1160

**Used with 7/8” throw deadbolts.

†Used with 1” throw deadbolts (300 Series Mortise locks).

Note: When ordering interchangeable core cylinders or cores only, control keys are not furnished. If control keys are required they must be ordered separately.

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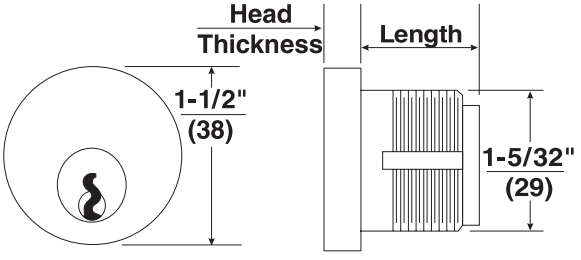
ADJUSTABLE HEAD MORTISE CYLINDERS

Steel Case Mortise Locks

List Numbers 2186 and 2186S

Cylinders are available as options for most Yale mortise locks as listed in the chart. These cylinders have a clean, no logo face and are available in all finishes for use with sectional trim only. They provide a 1/16" adjustment in cylinder length and eliminate the need of a cylinder ring to compensate for variables in door thickness. List no. 1767 spacer ring may be used as indicated in the chart to maintain a flush appearance. List no. 2186S is used on the inside operation of the 8717-2 and 8634-2 lock functions.

Door thickness must be specified when ordering these cylinders either separately or with a lockset. When cylinders are ordered separately, specify finish required.



For Use With 4600, 8600 & 8700 Series Steel Case Mortise Locks

Cylinder List No.	Cylinder Length	Cylinder Length Adj.	Head Thickness	Pins	Door Thickness	1767 Spacer Rings	Cams
2186 2186S (For inside operation 8717-2 and 8634-2 lock functions only.)	7/8" (22mm)	13/16"(21) to 7/8"(22)	.425"	6	1-3/8"(35) 1-3/4"(44)	.187" None	2160 for 2186
	1" (25mm)	15/16"(24) to 1"(25)	.300"	6	2"(50)	None	
	1" (25mm)	15/16"(24) to 1"(25)	.425"	7	1-3/8"(35) 1-3/4"(44) 2" (50)	.312" .125" None	
	1-1/8" (29mm)	1-1/16"(27) to 1-1/8"(29)	.300"	6 or 7	2-1/4 (57)	None	2130 for 2186S
	1-1/4" (32mm)	1-3/16"(30) to 1-1/4"(32)	.300"	6 or 7	2-1/2 (64)	None	

Cast Iron Mortise Locks & Other Applications

List Numbers 1186 and 1186A

These cylinders are available in a variety of lengths and head thicknesses, and provide a 1/16" adjustment to eliminate the need for cylinder rings and to compensate for variables in door thickness. See chart.

The 1767 Spacer ring may be used as indicated in the chart to maintain a flush appearance.

The cylinders have a clean, no-logo face and are available in all standard finishes for use with sectional trim only.

List no. 1186A is for 1" throw deadbolts.

For Use With 4000/8000 Series Cast Iron Mortise Locks and Other Applications

Cylinder List No.	Cylinder Length	Cylinder Length Adj.	Head Thickness	Pins	Door Thickness	1767 Spacer Rings	Cams
1186 1186A	7/8" (22mm)	13/16"(21) to 7/8"(22)	.425"	6	1-3/8"(35) 1-3/4"(44)	.187" None	1161 for 1186
	1" (25mm)	15/16"(24) to 1"(25)	.300"	6	2"(50)	None	
	1" (25mm)	15/16"(24) to 1"(25)	.425"	7	1-3/8"(40) 1-3/4"(44) 2"(50)	.312" .125" None	
	1-1/8" (29mm)	1-3/16"(30) to 1-1/8"(29)	.300"	6 or 7	2-1/4"(57)	None	1160 for 1186A
	1-1/4" (32mm)	1-3/16"(30) to 1-1/4"(32)	.300"	6 or 7	2-1/2"(64)	None	

Specify door thickness when ordering these cylinders either separately or with a lockset.

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THUMBTURN CYLINDERS

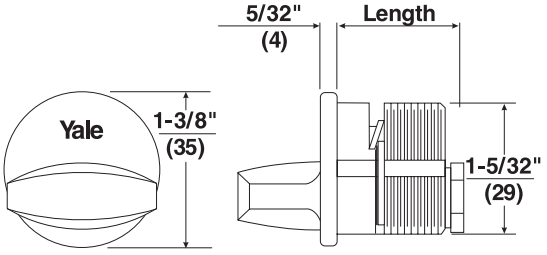
Steel Case Mortise Locks

List Numbers S2053 and S2053S

List no. S2053S Thumbturn Cylinder is supplied standard for the inside operation of the 8634 lock function. List no. S2053 is available to replace a key operated cylinder with a thumbturn.

Cylinder Rings: List nos. 1134, 1135 and 1765 are supplied with Yale mortise locks depending on the trim design selected. Ring size and thickness details are required to suit the length of the cylinder, the thickness of the door and the type of trim ordered.

When ordered separately, list no. 1135 Cylinder Ring will be supplied. List nos. 1134 and 1765 are available to special order. When ordered separately, specify finish.



For Use With 4600, 8600 & 8700 Series Steel Case Mortise Locks

Cylinder List No.	Length	Cams	Cam Position
S2053S	1” (25) or 1-1/8” (29)	2130	Horizontal
S2053	1” (25) or 1-1/8” (29)	2160	

Cast Iron Mortise Locks & Other Applications

For use instead of standard thumbturn, to replace a cylinder with a thumbturn.

Cylinder rings list nos. 1134 and 1135 are normally supplied with these thumbturn cylinders. List no. 1765 cylinder ring is available to special order. Ring size and thickness is supplied to suit the length of the cylinder, the thickness of the door and the type of trim ordered.

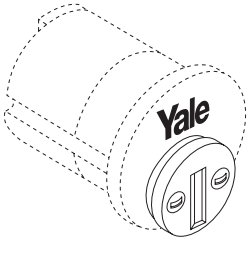
For Use With 4000/8000 Series Cast Iron Mortise Locks and Other Applications

Cylinder List No.	Length	Cams	Cam Position
S1052H	1” (25) or 1-1/8” (29)	1161	Horizontal
S1053H*	1” (25) or 1-1/8” (29)	1160	

* Used with 1” (25mm) throw deadbolts.

Accessories - Dust Shields

Mortise 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 list no. with the letter “D”, i.e. D2153. Dust shields are not available with adjustable head cylinders, or any cylinder using “A” bow keys.



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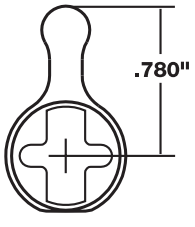
CAMS / CAM DISC / SCREWS

Cylinder List Number	Cam List Number		Disc Part Number	Screw Size
	Std.	Opt.		
1123, 1152, 1186, S1052H 5152, U5152	1161	1161L 1161T 1161G	None Required	3-48 x 1/4" PFHMS Part No. 81-0611-0154-036
1153, 1186A, S1053H, 5153, U5153	1160	-----	10-6120-9010-999	
1194, 1194A, 1194H, 5194, 5194H	1160E	1160L 1161U 1161G	10-6120-9010-999	
1718, 5718, U5718	1161	-----	None Required	
1719, 5719, U5719	1160	-----	10-6120-9010-999	
1196, 1196A, 1196H, 5196, 5196H	1160R	-----		
1198H	1160	-----		
2123, 2153, 2186, S2053, 2719, 5153, U5153, 5719	2160	-----	None Required	
2123S, 2153S, 2186S, S2053S, 5153S, U5153	2130	-----	10-6120-9010-999	
2196, 2197, 2196H, 5196, 5197, 5196H	2160	-----	None Required	
2196S, 2197S, 5196S, 5197S	2130	-----	10-6120-9010-999	



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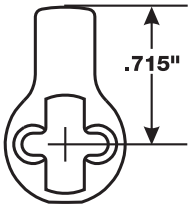
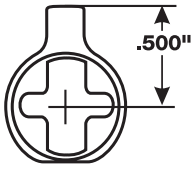


No. 1161



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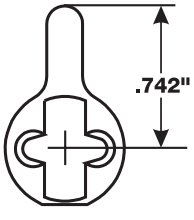

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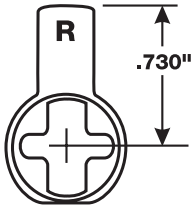
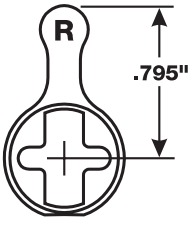


No. 1160E

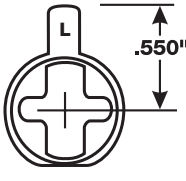


No. 1160R

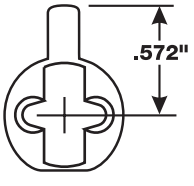
All cams and cam discs illustrated actual size.

Part No.
10-6120-9010

Optional Cams to Operate Adams Rite Narrow Stile Door Locks



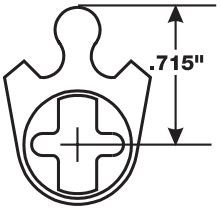
No. 1161L



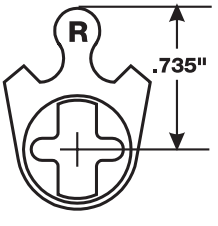
No. 1160L

Optional Cams to Operate Corbin Russwin Mortise Locks

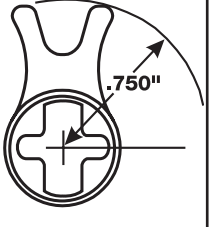
Optional Cam to Operate key switches



No. 1161T



No. 1161U



No. 1161G

*Will also operate Sargent® mortise locks.

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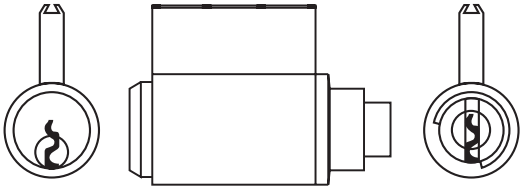
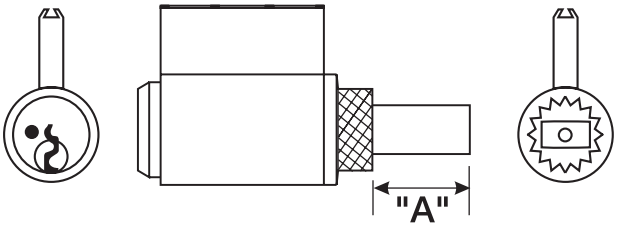
CYLINDERS FOR KNOB / LEVER LOCKS

4300, 4300LN, 5300, 5300L, 5300LN, 5400, 5400LN & 5500 Series

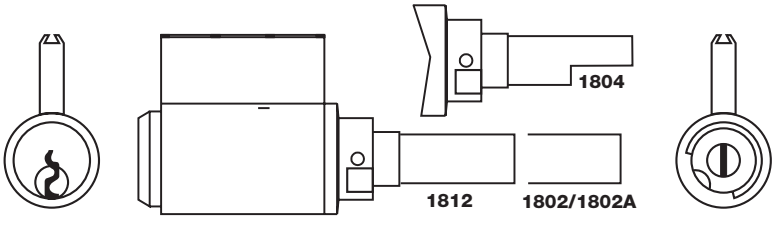
1801 / 1801A / Standard Knob Cylinders



1803 / 1807 / 1808N Hotel/Motel Knob Cylinders



1802/1802L/1802A/1802S/1804/1812 Standard Key-in-Lever Cylinders



Cylinder	Dimension "A"
1803	3/4" (19)
1807	7/16" (11)
1808N	1/4" (6)

		4300, 4300LN, 5300, 5300L, 5300LN Series		5400, 5400LN, 5500 Series	
Cylinder List Number	**Max. Active Pins**	**Applications**	**Applicable Knobs / Levers**	**Applications**	**Applicable Knobs / Levers**
1801	6	Standard for all knob designs.	350K (Prefix with knob design, i.e. LF350K.)	Standard for all knob designs.	450K, 450KF (Prefix with knob design, i.e. LF450K.)
1801A	7	For CA knob design only. (Requires special lock body.)	CA350K	Available for BR and CA knob designs only.	BR457K, BR457KF, CA450K, CA450KF
1802	6	5300LN Series	AU, MO, PB Levers	5400LN Series	AU, MO, PB Levers
1802A	7	----	----	5400LN Series	AU, MO, PB Levers
1802L	6	5300LN 2"(51)-2-1/4"(57) Thk. Doors	AU, MO, PB Levers	----	----
1802S	6	----	----	For inside cylinder only, for 5417LN function	AU, MO, PB Levers
1803	6	For 5320 locks with CA design.	CA350K	----	----
1804	6	For 5300L Levers	AU5300L	----	----
1807	6	----	----	For 5420/5520 with CA design	CA450KF
1808N	6	For 5320 lock function in all knob designs except CA.	350K (Prefix with knob design, i.e. LF350K.)	For 5420/5520 lock function in all knob designs except CA.	450KF (Prefix with knob design, i.e. LF450K.)
1812	6	4300 4300LN	Knob Lever	-----	-----

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INTERCHANGEABLE CORES

1210, 1220 Interchangeable Core Knobs & Levers

5300 and 5400/5500 series locksets are available with interchangeable cores in 6 or 7 pin systems, except 5420/5520 and 5320 hotel/motel functions. Cores can be easily replaced by means of a control key. Interchangeable core systems are ideal for protection against lost keys, or unauthorized entrance by former occupants or employees. The control key operates only its intended group of cores. These cores are interchangeable with other Yale brand products using corresponding core list numbers and can be keyed in conjunction with standard cylinders.

Knob Applications

Removable Core	Max. Active Pins	Application	Applicable Knobs
1210	6	5300 5400 5500	BR350R, BR450R, BR450RF, CA450R,
1220	7	5400 5500	BR350T, BR450T,

Lever Applications

Removable Core	Max. Active Pins	Application	Applicable Levers
1210	6	5300LN 5400LN 6400LN	AU350LR, MO350LR, PB350LR, AU450LR, MO450LR,PB450LR
1220	7	5400LN 6400LN	AU450LT, MO450LT, PB450LT

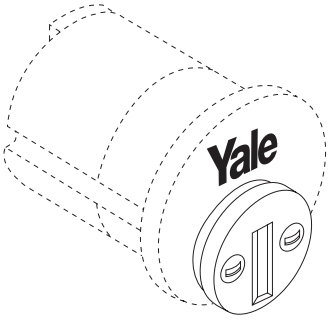
Dust Shields

1801 conventional cylinder, 1210 and 1220 interchangeable cores are available with dust shields to protect the tumblers and plug from the penetration of dust, sand and other unusual contaminents.

1210, 1220 Interchangeable Core Deadlock

3400 Deadlock

Interchangeable Core	Max. Active Pins	Application
1210	6	3400 Series x 1210
1220	7	3400 Series x 1220



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AUXILIARY LOCK / RIM CYLINDERS

List No. 1109 Rim Cylinder

Used with Rim Locks and Exit Devices

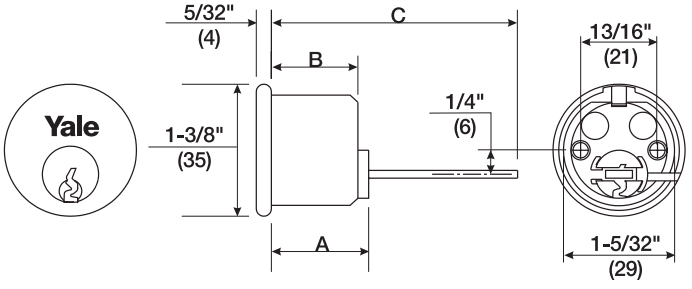
To substitute another manufacturer's cylinder, compare your cylinder dimensions and components with the adjacent drawing and chart.

To Order Specify:

- List Number 1109
- Keying
  - Number of pins (5, 6 or 7 pin).
  - Keyway
- Connecting Bar (#1145 or #1147)
- Finish (US3, US4, US10, US26, or US26D Standard)

Example:

1109MK x 6 Pin x GA x 1147 x US26D



Application	Material	No. of Pins	Dim. A	Dim. B	Dim. C Connecting Bar List No.		Standard Cylinder Ring
					#1145	#1147	
Standard Rim Locks Exit Device Trims	Brass Body Brass, Bronze or S.S. Scalp	5	1-1/32 (26)	15/16 (24)	2-9/16 (65)	3-7/16 (87)	1762
		6	1-7/32 (31)	1-3/32 (28)	2-3/4 (70)	3-5/8 (92)	1762
		7	1-13/32 (36)	1-1/4 (32)	2-15/16 (75)	3-13/16 (97)	1762

List No. 1179 Rim Cylinder

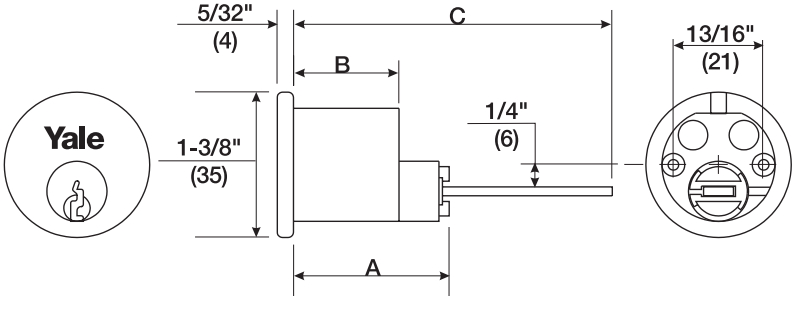
Supplied as an optional cylinder for the Yale auxiliary rim locks and exit devices. When keyed to a hotel/motel master key system.

To Order Specify:

- List Number 1179
- Keying
  - Level of Keying
  - Key Section
- Connecting Bar (#1145 or #1147)
- Finish (US3, US4, US10, US26, or US26D Standard)

Example:

1179MK x GA x 1145 x US26D



Application	Material	No. of Pins	Dim. A	Dim. B	Dim. C		Standard Cylinder Ring
					#1145	#1147	
Rim Locks & Exit Devices when keyed to Hotel MK System	Brass	6 *	1-5/8 (41)	1-3/32 (28)	3-3/16 (81)	4 (102)	1762

*Will Accept 7 pin keys.

List No. 1709 Rim Cylinder

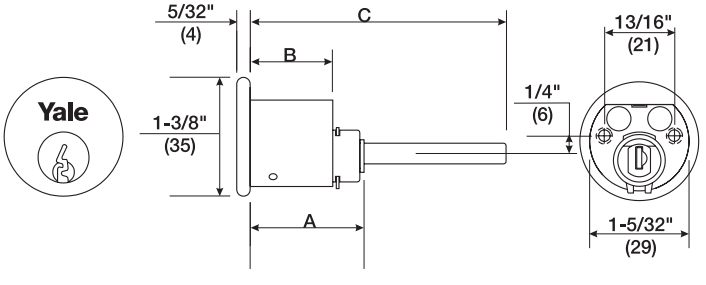
Supplied as an optional cylinder for the Yale auxiliary rim locks and exit devices when construction master key is requried.

To Order Specify:

- List Number 1709
- Keying
  - Number of pins (5, 6 or 7 pin).
  - Keyway
- Finish (US3, US4, US10, US26, or US26D Standard)

Example:

1709CMK x GA x US10



Application	Material	No. of Pins	Dim. A	Dim. B	Dim. C	Standard Cylinder Ring
Exit Device Trim when CMK is req'd.	Brass	5 or6	1-11/32 (34)	31/32 (25)	3-1/16 (78)	1762
		7	1-1/2 (38)	1-1/8 (29)	3-7/32 (82)	1762

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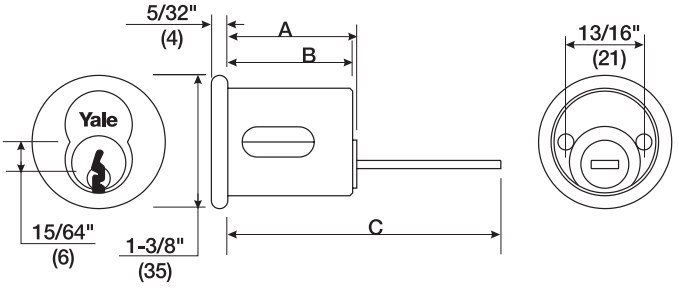
AUXILIARY LOCK / RIM CYLINDERS

List No. 1193 Rim Cylinder

Furnished where interchangeable core cylinders are used for all rim auxiliary locks and rim exit devices.

To Order Specify:

- List Number 1193
- Keying
  - Number of pins (6 or 7 pin).
  - Keyway
- Connecting Bar (#1145 or #1147)
- Finish (US3, US4, US10, US26, US26D or US32D Standard)
- Number of control keys required (None furnished unless ordered.)



List No.	No. of Pins	Core List No.	Housing List No.	Dim. A	Dim. B	Dim. C Connecting Bar List No.	
						#1145	#1147
1193	6	1210	1212	1-7/16 (37)	1-3/8 (27)	2-15/16 (75)	3-3/4 (95)
1193	7	1220	1212B	1-5/8 (27)	1-9/16 (40)	3-1/8 (79)	4-5/16 (110)

List No. 1193L Rim Cylinder

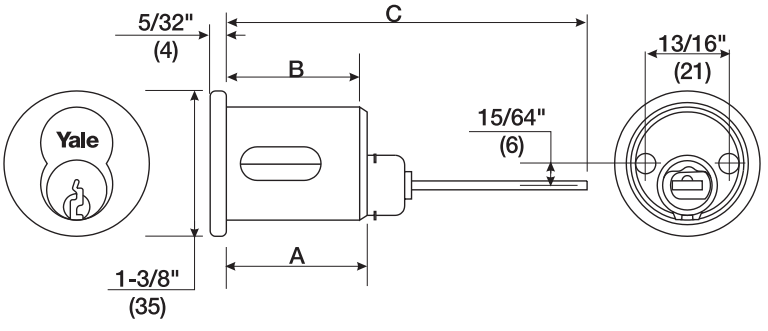
Used as an optional cylinder for auxiliary locks or exit devices when a lazy cam operation is required.

To Order Specify:

- List Number 1193L
- Keying
  - Level of Keying
  - Key Section
- Finish (US3, US4, US10, US26, or US26D Standard)

Example:

1193MK x GA x US26D



Application	Material	No. of Pins	Dim. A	Dim. B	Dim. C	Standard Cylinder Ring
Standard Rim Locks Exit Device Trims	Brass	6 (uses #1210 I. Core)	1-3/4 (45)	1-3/8 (35)	3-1/2 (89)	1762

Cyls. for 3300 Series Deadlocks

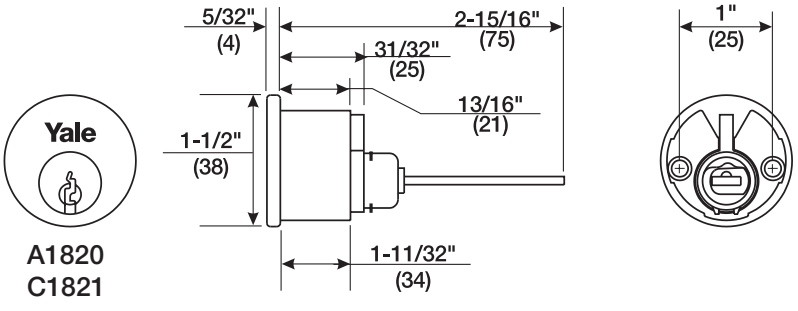
Used only for 3300 Series Deadlocks.

To Order Specify:

- List Number A1820, A1821, C1821
- Keying
  - Level of Keying
  - Key Section
- Finish (US3, US4, US10, US26, or US26D Standard)

Example:

A1820MK x GA x US26D



A1821

Application	List No. Outside Cylinder	List No. Inside Cylinder	Connecting Bar
Cyl. x T.T. Cyl. x School T.T. Cyl. x Blank Rose	A1820	-----	14-3211-1111-048
Cyl. x Cyl.	C1821	A1821	14-3211-1111-048 I/S only
Blank Plate x Cyl.	-----	A1821	14-3211-1111-048

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CYLINDERS FOR NARROW STILE LOCKS

AdamsRite® Style Locks

For use with AdamsRite MS® 1800 Series Locks and 4700 Series Latches

Cylinder x Cam List No.	Cam No.	Disc Part No.	Screw Size
1152 x 1161L Standard	1161L	10-6120-9010	3-48 x 1/4" FHMS Part No. 81-0011-0154
1194 x 1160L Interchangeable Core	1160L		3-48 x 7/32"FHMS Part No. 81-0011-1153
S1052H x 1161L Thumbturn	1161L		3-48 x 1/4" FHMS Part No. 81-0011-0154

Comparative Chart of Cylinder Length and Ring Thickness for 1-3/4" Thick Narrow Stile Aluminum Doors

Cylinder x Cam List No.	Adams-Rite Lock Number	Cylinder Length	No. of Pins	Cylinder Ring
Standard 1152 x 1161L Cylinder	MS Series Locks	1" (25) 1-1/8" (29) 1-1/4" (32)	5 6 7	1134 - .250" 1134 - .344" 1134 - .500"
	4700 Series Latches	1" (25) 1-1/8" (29) 1-1/4" (32)	5 6 7	1134 - .250" 1134 - .344" 1134 - .500"
Interchangeable Core 1194 x 1160L Cylinder	MS Series Locks	1-1/2" (38) 1-11/16" (43)	6 7	1134 - .750" 1134 - .937"
	4700 Series Latches	1-1/2" (38) 1-11/16" (43)	6 7	1134 - .656" 1134 - .844"
S1052H x 1161L Thumbturn Cylinder	MS Series Locks	1-1/8" (29)	---	1134 - .250"
	4700 Series Latches	1-1/8" (29)	---	1134 - .156"

When ordering cylinder, specify length, number of pins, cylinder ring required and finish.

Example:
1152 x 1161L - 1-1/8" (29mm) 6 pin cylinder x 1134 - .344" cylinder ring - US26D

NOTE: 1134 cylinder ring length was determined by using the formula given in the Adams-Rite catalog.

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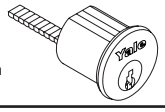
CYLINDERS FOR EXIT DEVICE TRIM

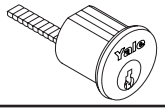
1500, 2100, & 7000 SERIES EXIT DEVICES

Narrow Escutcheon Trim
500 and 510 Series Trim
Rim cylinders with special #599 cylinder rings. NOT AVAILABLE with U5109 cylinder.



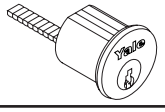
Cylinder (s)	Description	Cyl. Ring	Mounting Screws	See Page for Details
1109 / 5109 6-pin	Standard / Security	599-.419	60-7000-1349-048	13 / 18
1109 / 5109 7-pin	Standard / Security	599-.419	60-7000-1349-048	13 / 18
1193 / 5193 6-pin	I.C. / Sec. I.C.	599-.700	10-1193-1018-048	14 / 18
1193 / 5193 7-pin	I.C. / Sec. I.C.	599-.700	10-1193-1018-048	14 / 18
1709 6-pin	CMK Cylinder	599-.419	60-7000-1349-048	13
1709 7-pin	CMK Cylinder	599-.700	34-2311-6738-048	13

Standard Escutcheon Trim
520F, 530F Series Rim Cylinders



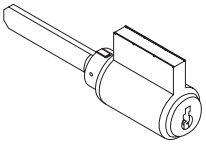
Cylinder (s)	Description	Cyl. Ring	Mounting Screws	See Page for Details
1109 / 5109 6-pin	Standard / Security	1765-.250	60-7000-1349-048	13 / 18
1109 / 5109 7-pin	Standard / Security	1765-.250	60-7000-1349-048	13 / 18
1709 6-pin	CMK Cylinder	1765-.500	34-2311-6738-048	13
1709 7-pin	CMK Cylinder	1765-.500	34-2311-6738-048	13
1193 / 5193 6-pin	Std. / Sec. I.C.	1765-.469	10-1193-1018-048	14 / 18
1193 / 5193 7-pin	Std. / Sec. I.C.	1765-.656	10-1193-1018-048	14 / 18
U5109 6-pin	High Security	-----	60-7000-1349-048	18
U5109 7-pin	High Security	-----	60-7000-1349-048	18

Heavy Duty Escutcheon Trim
620F Series Rim Cylinders



Cylinder (s)	Description	Cyl. Ring	See Page for Details
1109 / 5109 6-pin	Standard / Security	-----	13 / 18
1109 / 5109 7-pin	Standard / Security	-----	13 / 18
1709 6-pin	CMK Cylinder	-----	13
1709 7-pin	CMK Cylinder	-----	13
U5109 6-pin	High Security	-----	18
U5109 7-pin	High Security	-----	18
1193 / 5193 6-pin	Std. / Sec. I.C.	-----	14 / 18
1193 / 5193 7-pin	Std. / Sec. I.C.	-----	14 / 18

Knob or Leverset Trim
540F Series Trim
Keyed trim uses Yale cylindrical lock cylinders.

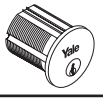


Cylinder (s)	Description	See Page for Details
1801	6-pin knob cylinder (Std.)	11
1802	6-pin lever cylinder (Std.)	11
1802A	7-pin lever cylinder	11
1210	6-pin I.C. Lever Cylinder	12
1220	7-pin I.C. Lever Cylinder	12
5802	6-pin security lever Cylinder	19
5802A	7-pin security lever Cylinder	19
5210	6-pin I.C. Security Cylinder	19
5220	7-pin I.C. Security Cylinder	19

Mortise Exit Devices Standard Escutcheon Trim 550/560 Series

Cylinder (s)	Description	Cyl. Ring	See Page for Details
2153 / 5153, 6 or 7-pin, 1-1/4" (32mm)	Standard / Security	1765-.125	6 / 18
2196 / 5196 6-pin	Std. I.C. / Sec. I.C.	1765-.344	7 / 18
2197 / 5197 6-pin	Std. I.C. / Sec. I.C.	1765-.531	7 / 18
U5153, 6 or 7-pin, 1-1/4" (32mm)	High Security	-----	18

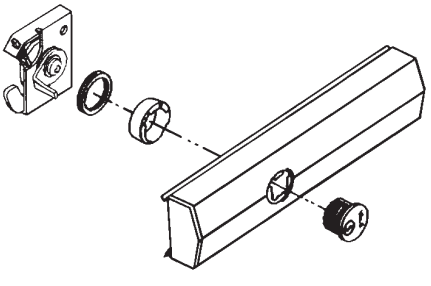
Mortise Exit Devices Heavy Duty Escutcheon Trim 650 Series



Cylinder (s)	Description	Cyl. Ring	See Page for Details
2153 / 5153, 6 or 7-pin, 1-1/2" (38mm)	Standard	-----	6
2196 / 5196 6-pin	Std. I.C. / Sec. I.C.	-----	7 / 18
2197 / 5197 6-pin	Std. I.C. / Sec. I.C.	-----	18

Dogging

Cylinder Dogging
Supplied with 6 pin 2153 1-1/8 (29mm) cylinder standard.
(No ring required.)



Optional Dogging Cylinders
2153 7 pin (1-1/4") x 1765-.156 Ring
2196 R.C. (1-1/2") x 1765-.406 Ring
2197 R.C. (1-11/16) x 1765-.594 Ring
Other cylinders,
on application.

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SECURITY CYLINDERS

About Yale's Security Cylinders

Yale's Security Cylinders contain two independent locking mechanisms. The first is a traditional 6 or 7 pin tumbler mechanism with spool drivers for greatly increased pick resistance.

The second is an innovative 5 tumbler 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 bitting and must align all five discs perfectly before the cylinder plug will rotate to open the lock. US Pat. No. 4,638,651.

This cylinder is virtually pick proof, because the unlocking mechanisms must be activated in two directions.

In addition to the mechanical security offered by this cylinder, Yale provides a number of security controls. Only the "GST" and "VYZ" family of surety keyways are assigned to these cylinders.

Three Security Levels

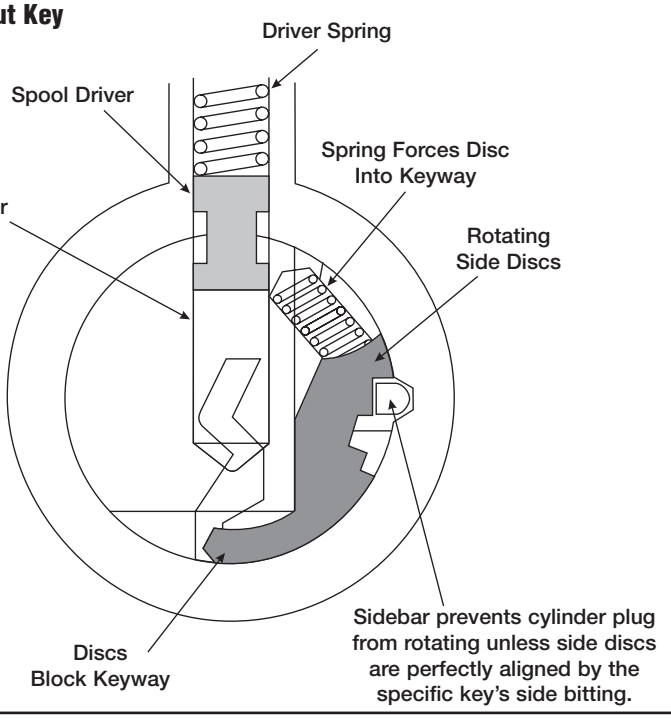
1. Registered Distributor - The "GST" family of keyways are available to contract hardware distributors and locksmiths. Keys are factory cut for the rotating disc tumblers; the pin tumbler bitting is field cut. Additional keys are available from contract hardware distributors or locksmiths.

2. Registered to End User - The "GST" family of surety keyways is also used for cylinders available from Yale only. These cylinders are sold by hardware distributors or locksmiths for specific jobs. The cylinders are factory assembled and keys are available from Yale and require an authorized signature from the building owner.

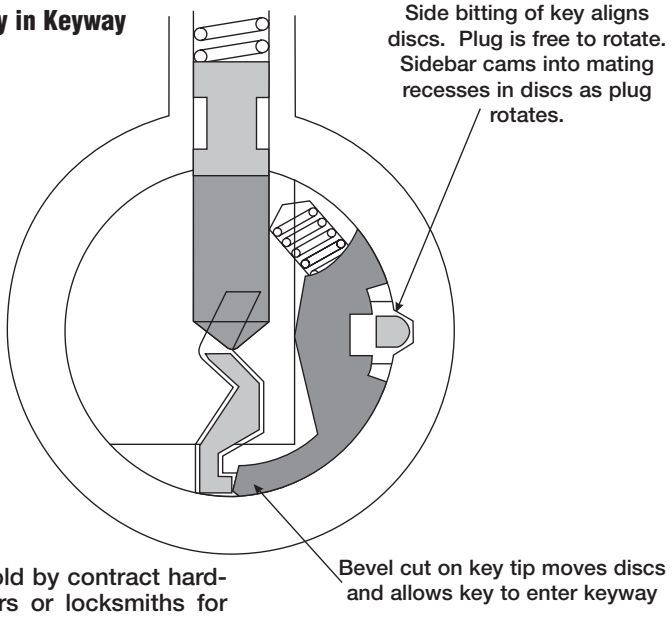
3. Registered to End User (Restricted Keyways) - The highest security cylinders use the "VYZ" family of restricted keyways. These cylinders are sold by contract hardware distributors or locksmiths for specific jobs.

Cylinders are factory assembled and keys are factory cut. Additional keys are only available from Yale and require an authorized signature from the building owner.

Plug without Key



Plug with Key in Keyway



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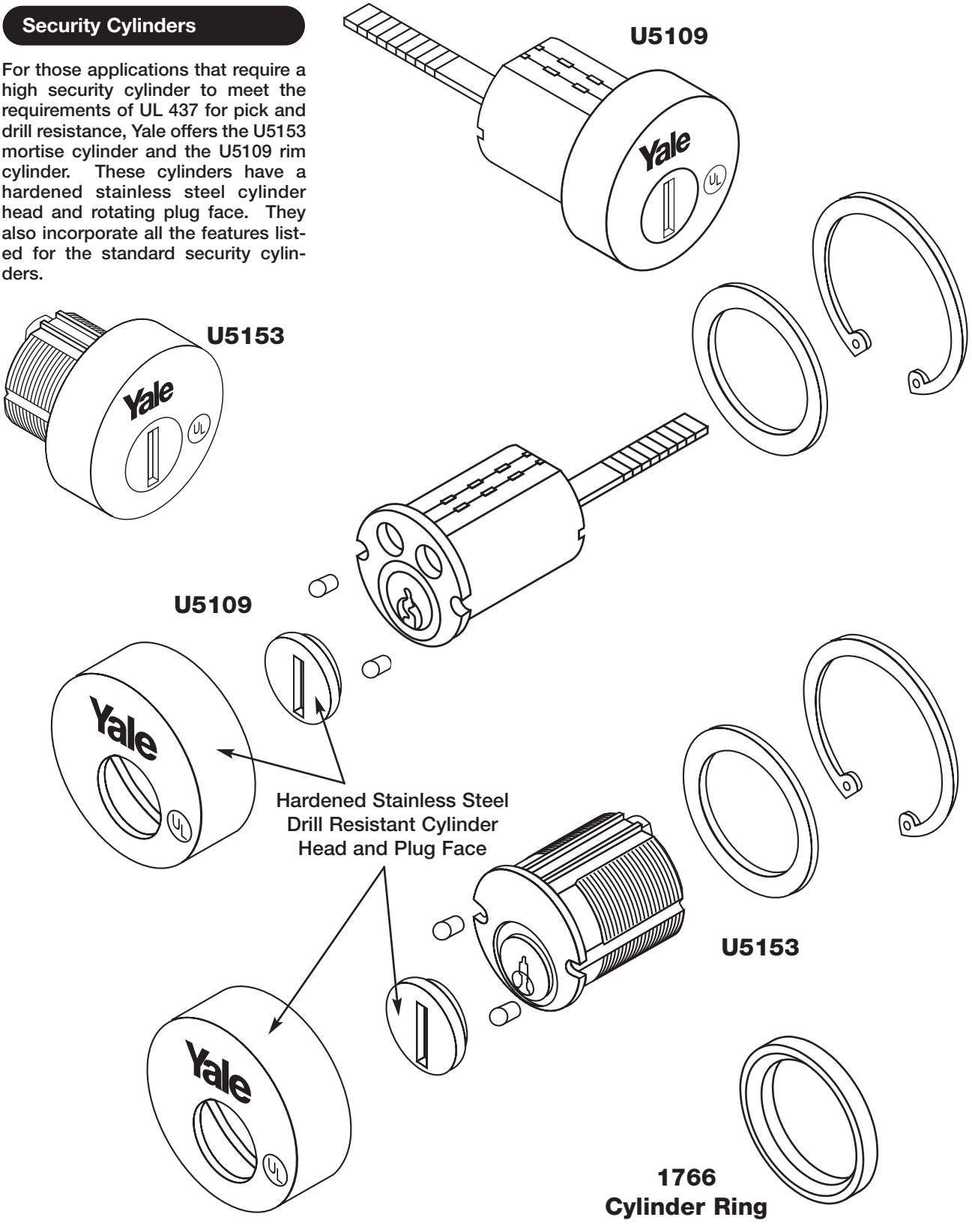
U.L. HIGH SECURITY CYLINDERS

Security Cylinders

For those applications that require a high security cylinder to meet the requirements of UL 437 for pick and drill resistance, Yale 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.



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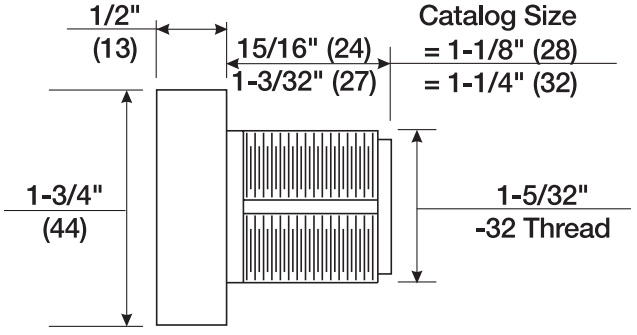
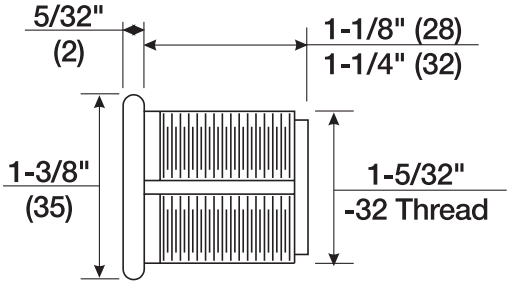
SECURITY CYLINDERS

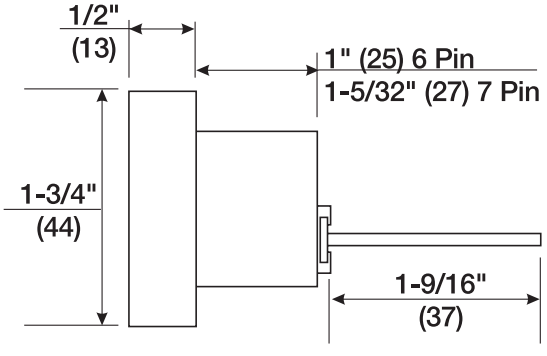
U5153 Mortise



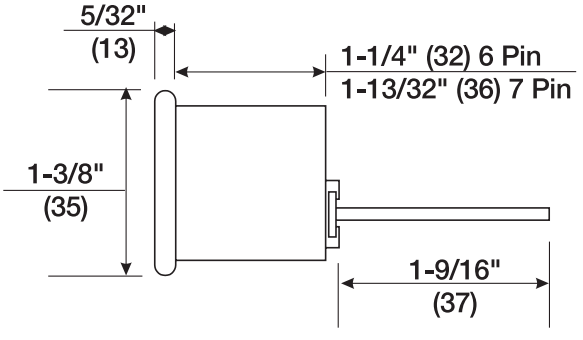
5153 Mortise



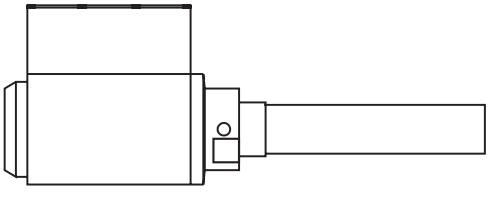
U5109 Rim



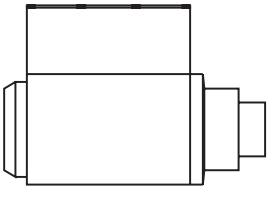
5109 Rim



5802 / 5802A / 5802L Key in Lever



5801 / 5801A Key in Knob



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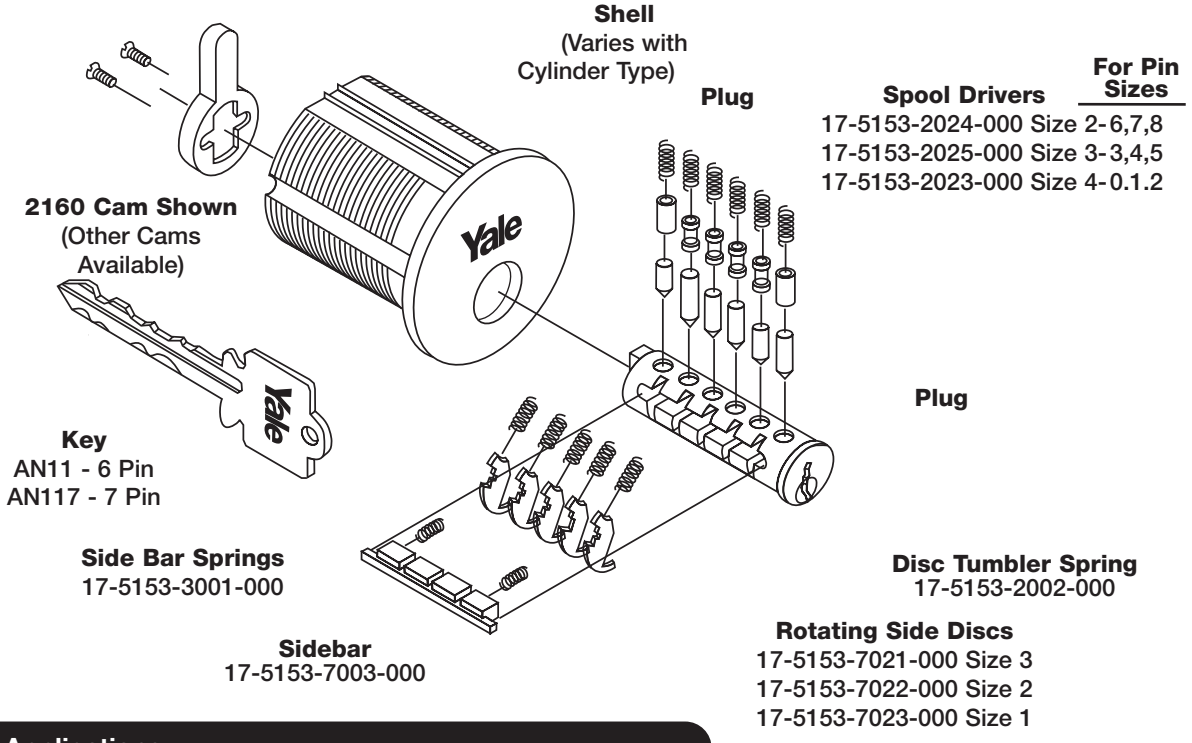
SECURITY CYLINDERS

Security Cylinder

6 Pin Shown
7 Pin Available



Cylinder Applications

Type of Cylinder	No. of Pins	List No.			
		High Security Cylinder	Security Cylinder	Interchangeable Core Security Cylinder	
				Complete Sec. Cyl.	Core Only
Mortise	6	U5153**, U5718, U5719, U5152	5153**, 5718, 5719, 5152	5194, 5194H, 5196, 5196H	5210, 5210H
	7	US5153**	5153**	5194, 5194H, 5197, 5197S	5220
Rim	6	U5109	5109	5193	5210
	7	U5109	5109	5193	5220
Knob*	6	----	5801	----	5210*
	7	----	5801A	----	5220*
(5300LN)† Lever (5400LN)	6	----	5802	----	5210
	7	----	5802A	----	5220
TubularDeadlock 3400 Series	6	----	----	----	5210
	7	----	----	----	5220
Padlock 5424	6	----	----	----	5210
Padlock 5434	7	----	----	----	5220

*5300 - BR design only, 6 or 7 pin. 5400, 5500 - BR design, 6 or 7 pin. CA design, 6 pin only.
**Standard Length - 6 pin, 1-1/8", 1-1/4", 7 pin, 1-1/4".
† 5300LN 6 pin only.

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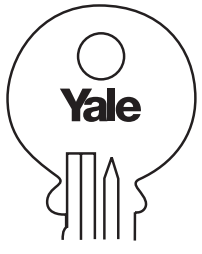
KEY BLANKS

How to Order

Bow Style	Key Blank Material	Basic List Number	Key Section
R	N	11	GA
See Below	B= Brass N= Nickel Silver	.51” Pin Tumbler 19 = 3 Pin 9 = 4 Pin 8 = 5 Pin 11 = 6 Pin 117 = 7 Pin 118 = 8 Pin 411 = 7-1/2 Pin 411S = 6 Pin .40” Pin Tumbler 10 = 4 Pin 13 = 5 Pin 12 = 6 Pin	Simplex - Surety - Multiple Surety - Master Key All Section - Refer to Page 4

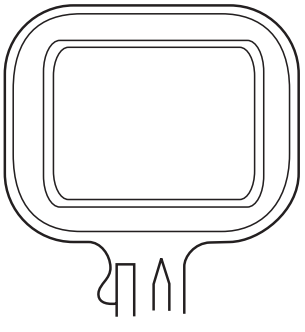
Bow Styles



R BOW

F BOW

A BOW



H BOW

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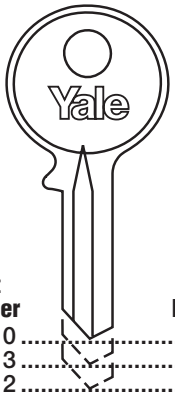
.40 & .51 PIN TUMBLER KEY BLANKS

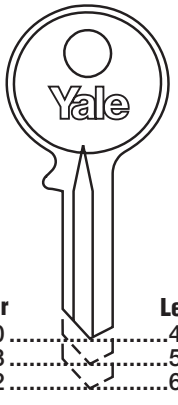
.40” Brass Key Blanks



List Number	Length
RB10	4-pin
RB13	5-pin
RB12	6-pin

Available E3R Key Section Only

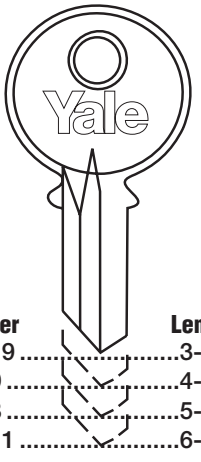
.40” Nickel Silver Key Blanks



List Number	Length
RN10	4-pin
RN13	5-pin
RN12	6-pin

Available in all .40” Key Sections

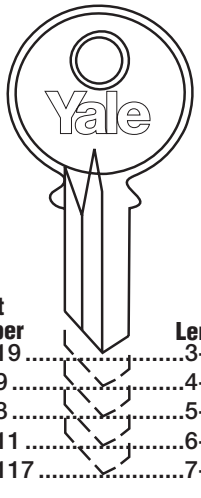
.51” Brass Key Blanks



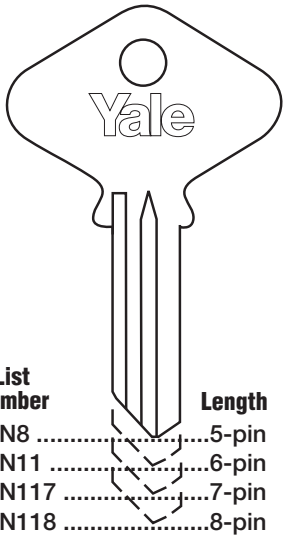
List Number	Length
RB19	3-pin
RB9	4-pin
RB8	5-pin
RB11	6-pin

Available E1R Key Section Only

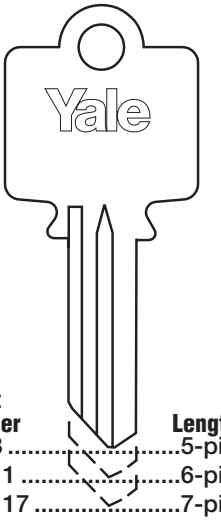
.51 Nickel Silver Key Blanks



* List Number	Length
RN19	3-pin
RN9	4-pin
RN8	5-pin
RN11	6-pin
RN117	7-pin



* List Number	Length
FN8	5-pin
FN11	6-pin
FN117	7-pin
FN118	8-pin



* List Number	Length
** AN8	5-pin
** AN11	6-pin
AN117	7-pin

* Available in all .51” Key Sections.
**High Security Key Blanks AN8 & AN11 only. GST &VYZ families only.
Letter of authorization required. Side cuts are factory machined.

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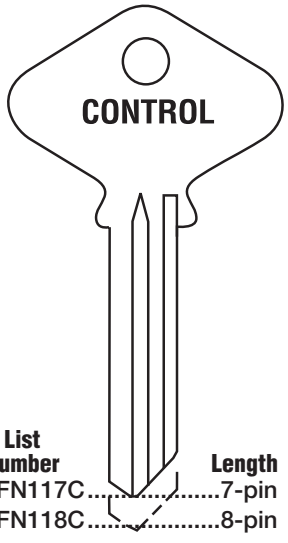
.51 PIN TUMBLER KEY BLANKS

.51" Nickel Silver Key Blanks

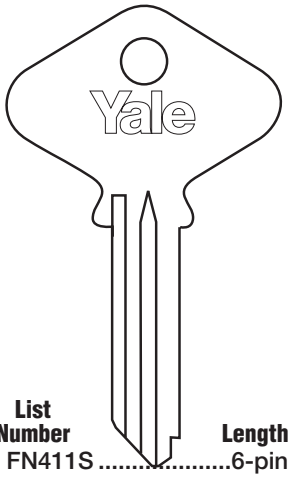
Interchangeable Core Control Key Blanks



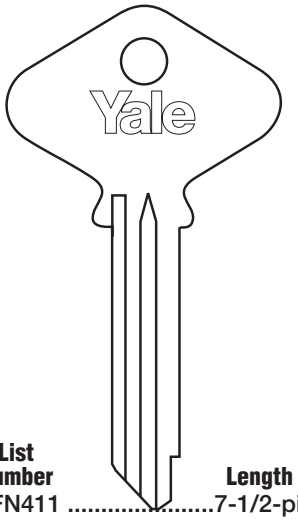
** List Number	Length
FN117C	7-pin
FN118C	8-pin

Furnished 'O' cuts except for #1 on Tip. Stamped with 'Control'.

Hotel/Motel Key Blanks

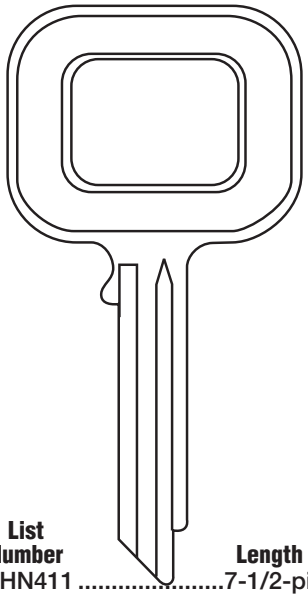


List Number	Length
** FN411S	6-pin

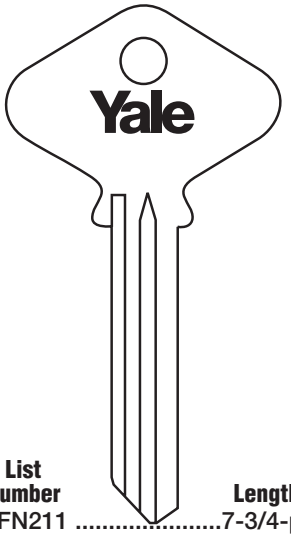


* List Number	Length
** FN411	7-1/2-pin

Hotel / Motel Key Blanks



List Number	Length
** HN411	7-1/2-pin



List Number	Length
** FN211	7-3/4-pin

* "F" bow shown also available "R" Bows.
** Available in all .51" Key Sections.

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PIN KITS

Yale keying kits contain the components required to key Yale Locksets, deadlocks and padlocks (.51 plugs). All components are packed in a sturdy metal case.

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

Pins and springs are packed by size, individual bags of 100. Each kit contains bottom pins, master pins, top pins and springs. Both kits include tweezers and a plug follower. **All items are available in the Yale Warehouse QuickShip program.**

SK-12 Pin Kit - .019" Step

Whse. Part No.	Qty.	Description	Size	Pin Length	List No.
2980	1	Pin Kit - Complete	.019 Step	---	SK-12
2982	1	Refill Kit - Complete	.019 Step	---	---
2984	1	Plug Follower	---	---	020
2985	1	Tweezers	---	---	021
2986	100	Bottom Pin	0	.182	251-0
2987	100	Bottom Pin	1	.201	251-1
2988	100	Bottom Pin	2	.220	251-2
2989	100	Bottom Pin	3	.239	251-3
2990	100	Bottom Pin	4	.258	251-4
2991	100	Bottom Pin	5	.277	251-5
2992	100	Bottom Pin	6	.296	251-6
2993	100	Bottom Pin	7	.315	251-7
2994	100	Bottom Pin	8	.334	251-8
2995	100	Bottom Pin	9	.353	251-9
2996	100	Top Pin (Driver)	2	.152	351-2
2997	100	Top Pin (Driver)	3	.190	351-3
2998	100	Top Pin (Driver)	4	.230	351-4
2999	100	Master Pin	2	.038	451-2
3000	100	Master Pin	3	.057	451-3
3001	100	Master Pin	4	.076	451-4
3002	100	Master Pin	5	.095	451-5
3003	100	Master Pin	6	.114	451-6
3004	100	Master Pin	7	.133	451-7
3005	100	Master Pin	8	.152	451-8
3006	100	Spring	---	---	151

SK-13 Pin Kit - .025" Step

Whse. Part No.	Qty.	Description	Size	Pin Length	List No.
2981	1	Pin Kit - Complete	.025 Step	---	SK-13
2983	1	Refill Kit - Complete	.025 Step	---	---
2984	1	Plug Follower	---	---	020
2985	1	Tweezers	---	---	021
2986	100	Bottom Pin	0	251A-0	151
3008	100	Bottom Pin	1	251A-1	
3009	100	Bottom Pin	2	251A-2	
3010	100	Bottom Pin	3	251A-3	
3011	100	Bottom Pin	4	251A-4	
3012	100	Bottom Pin	5	251A-5	
3013	100	Bottom Pin	6	251A-6	
3014	100	Bottom Pin	7	251A-7	
2996	100	Top Pin (Driver)	2	351-2	
2997	100	Top Pin (Driver)	3	351-3	
2998	100	Top Pin (Driver)	4	351-4	
3018	100	Master Pin	2	451A-2	
3019	100	Master Pin	3	451A-3	
3020	100	Master Pin	4	451A-4	
3021	100	Master Pin	5	451A-5	
3022	100	Master Pin	6	451A-6	
3023	100	Master Pin	7	451A-7	
3006	100	Spring	---	151	

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MISCELLANEOUS PIN TUMBLERS

.40” Diameter Plug Cylinders

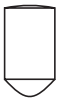
Cabinet Lock & Padlock
.101 Diameter Pins.
#17-6530-3017-000 Spring

Top Pins (Drivers) .018”Step

No.	Part Number	Length	Bitting # Use
1	17-0040-2025-000	.080	4, 5, 6
3	17-0040-2026-000	.120	0, 1, 2, 3

Master Key Discs

No.	Part Number	Length	Steps
1	17-0040-2030-000	.036	2
2	17-6120-0033-000	.054	3
3	17-0040-2031-000	.072	4
4	17-0040-2032-000	.090	5



Bottom Pins

No.	Part Number	Length
0	17-0040-2013-000	.142
1	17-0040-2014-000	.160
2	17-0040-2015-000	.178
3	17-0040-2016-000	.196
4	17-0040-2017-000	.214
5	17-0040-2018-000	.232
6	17-0040-2019-000	.250

.51” Diameter Plug Cylinders

.128 Diameter Pins (Special)
Used only on certain key sections including GK, SK, etc. and certain multiple plug sections such as GAH, GBG, GV, etc.
#17-6530-0018-000 Spring

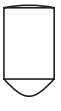
Top Pins (Drivers)

No.	Part Number	Length	Bitting # Use	
			.019	.025
1	17-0051-2043-000 ●	.114	9	-----
2	17-0051-2044-000 ■	.152	6,7,8	6,7
3	17-0051-2045-000	.190	3,4,5	3,4,5
4	17-0051-2046-000	.230	0,1,2	0,1,2

Master Key Discs

No.	.019 Step			.025 Step		
	Part Number	Lgth.	Steps	Part Number	Lgth.	Steps
1	17-0051-2051-000	.038	2	17-0051-2053-000	.050	2
2	17-0051-0052-000‡	.076	4	17-0051-0052-000‡	.076	3
3	17-0051-2043-000●	.114	6	17-0051-2054-000	.100	4
4	17-0051-2044-000■	.152	8	17-0051-2055-000	.125	5
5	-----	—		17-0051-2044-000■	.152	6
6	-----	—		17-0051-2056-000	.175	7

■ Has three uses: .019-4 Disc, .025-5 Disc, No. 2 Top Pin
‡ Has two uses: .019-2 Disc & .025.2 Disc.
● Has two uses: .019-3 Disc & .019-1 Top Pin



Bottom Pins

No.	.019 Step		.025 Step	
	Part Number	Length	Part Number	Length
0	17-0051-2090-000	.182	17-0051-2090-000	.182
1	17-0051-2091-000	.201	17-0051-2101-000	.207
2	17-0051-2092-000	.220	17-0051-2102-000	.232
3	17-0051-2093-000	.239	17-0051-2094-000▸	.258
4	17-0051-2094-000▸	.258	17-0051-2104-000	.282
5	17-0051-2095-000	.277	17-0051-2105-000	.307
6	17-0051-2096-000	.296	17-0051-2098-000	.334
7	17-0051-2097-000	.315	17-0051-2107-000	.357
8	17-0051-2098-000†	.334	-----	-----
9	17-0051-2099-000	.353	-----	-----

* Has two uses: .019-0 Disc & .025-0 Disc.
▸ Has two uses: .019-4 Disc & .025-3 Disc.
† Has two uses: .019-8 Disc & .025-6 Disc.

For 8700, 8600, 4600, Series Mortise Locks

Door Thicknesses 1-3/8" thru 1-3/4"

Escutcheon Trim Designs

Dimensions are given in inches (millimeters).

Cylinder List Number		2153, 2153S, 5153, 2123, 2123S Std. Mortise Cyls.			U5153, U5153S, H.S. STD. Cyls.		2196, 2196S, 5196,2197, 2197S, 5197 I.C. Cyls.		5719, 2719 Std. Hotel/Motel Cyls.		5196H, 2196H Hotel/Motel I.C. Cyls.	
Door Thickness	Escutcheon Trim Design	Max. No. of Pins	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings
1-3/8 (35)	Copenhagen	6	1-1/8 (29)	1765-.344	1-1/8 (29)	NONE	1-1/2 (38)	1765-.750	1-3/8 (35)	1765-.656	1-11/16 (35)	1765-.924
		7	1-1/4 (32)	1765-.500	1-1/4 (32)	1766	1-11/16 (43)	1765-.924				
		7	1-3/8 (35)	1765-.656								
	Carolina Wingate	6	1-1/8 (29)	1134-.344	1-1/8 (29)	NONE	1-1/2 (38)	1134-.750	1-3/8 (35)	1134-.656	1-11/16 (35)	1134-.937
		7	1-1/4 (32)	1134-.500	1-1/4 (32)	1766	1-11/16 (43)	1134-.937				
		7	1-3/8 (35)	1134-.656								
	Finlandia/SL	6	1-1/8 (29)	1765-.250	1-1/8 (29)	NONE	1-1/2 (38)	1765-.656	1-3/8 (35)	1765-.531	1-11/16 (35)	1765-.844
		7	1-1/4 (32)	1765-.406	1-1/4 (32)	1766	1-11/16 (43)	1765-.844				
		7	1-3/8 (35)	1765-.531								
	Easton	6	1-1/8 (29)	1135-3/16	1-1/8 (29)	NONE	1-1/2 (38)	1135-5/16 1134-.312	1-3/8 (35)	1135-5/16 1134-.187	1-11/16 (35)	1135-5/16 1134-.500
		7	1-1/4 (32)	1135-1/4 1134-.094	1-1/4 (32)	1766	1-11/16 (43)	1135-5/16 1134-.500				
	Lenior	5	15/16 (24)	1765-.062								
		6	1-1/8 (29)	1765-.250	1-1/8 (29)	NONE	1-1/2 (38)	1765-.656	1-3/8 (35)	1765-.531	1-11/16 (35)	1765-.844
		7	1-1/4 (32)	1765-.460	1-1/4 (32)	1766	1-11/16 (43)	1765-.844				
1-3/4 (44)	Copenhagen	6	1-1/8 (29)	1765-.156	1-1/8 (29)	NONE	1-1/2 (38)	1765-.563	1-3/8 (35)	1765-.469	1-11/16 (35)	1765-.750
		7	1-1/4 (32)	1765-.344	1-1/4 (32)	NONE	1-11/16 (43)	1765-.750				
		7	1-3/8 (35)	1765-.469								
	Carolina Wingate	6	1-1/8 (29)	1134-.156	1-1/8 (29)	NONE	1-1/2 (38)	1134-.562	1-3/8 (35)	1134-.469	1-11/16 (35)	1134-.750
		7	1-1/4 (32)	1134-.344	1-1/4 (32)	NONE	1-11/16 (43)	1134-.750				
		7	1-3/8 (35)	1134-.469								
	Finlandia/SL	6	1-1/8 (29)	1765-.062	1-1/4 (32)	NONE	1-1/2 (38)	1765-.469	1-3/8 (35)	1765-.344	1-11/16 (35)	1765-.656
		7	1-1/4 (32)	1765-.219	1-1/4 (32)	NONE	1-11/16 (43)	1765-.656				
		7	1-3/8 (35)	1765-.344								
	Easton	6	1-1/4 (32)	1135-3/16	1-1/4 (32)	NONE	1-1/2 (38)	1135-5/16 1134-.125	1-3/8 (35)	1135-5/16	1-11/16 (35)	1135-5/16 1134-.312
		7	1-1/4 (32)	1135-3/16	1-1/4 (32)	NONE	1-11/16 (43)	1135-5/16 1134-.344				
	Lenior	5	15/16 (24)	NONE								
		6	1-1/8 (29)	1765-.125	1-1/4 (32)	NONE	1-1/2 (38)	1765-.469	1-3/8 (35)	1765-.344	1-11/16 (35)	1765-.656
		7	1-1/4 (32)	1765-.250	1-1/4 (32)	NONE	1-11/16 (43)	1765-.656				
2 (51)	Copenhagen	6	1-1/4 (32)	1765-.219	1-1/4 (32)	NONE	1-1/2 (38)	1765-.437	1-3/8 (35)	1765-.344	1-11/16 (35)	1765-.656
		7	1-1/4 (32)	1765-.219	1-1/4 (32)	NONE	1-11/16 (43)	1765-.656				
		7	1-3/8 (35)	1765-.344								

For 8700, 8600, 4600, Series Mortise Locks

Door Thicknesses 2" thru 2-1/2"

Escutcheon Trim Designs

Dimensions are given in inches (millimeters).

Cylinder List Number		2153, 2153S, 5153, 2123, 2123S Std. Mortise Cyls.			U5153, U5153S, H.S. STD. Cyls.		2196, 2196S, 5196,2197, 2197S, 5197 I.C. Cyls.		5719, 2719 Std. Hotel/Motel Cyls.		5196H, 2196H Hotel/Motel I.C. Cyls.	
Door Thickness	Escutcheon Trim Design	Max. No. of Pins	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings
2 (51)	Carolina Wingate	6	1-1/4 (32)	1134-.219	1-1/4 (32)	NONE	1-1/2 (38)	1134-.437	1-3/8 (35)	1134-.344	1-11/16 (43)	1134-.656
		7	1-1/4 (32)	1134-.219	1-1/4 (32)	NONE	1-11/16 (43)	1134-.656				
		7	1-3/8 (35)	1134-.344								
	Finlandia/SL	6	1-1/4 (32)	1765-.094	1-1/4 (32)	NONE	1-1/2 (38)	1765-.344	1-3/8 (35)	1765-.219	1-11/16 (43)	1765-.531
		7	1-1/4 (32)	1765-.094	1-1/4 (32)	NONE	1-11/16 (43)	1765-.531				
		7	1-3/8 (35)	1765-.219								
	Easton	6	1-3/8 (35)	1135-3/16	1-1/4 (32)	NONE	1-1/2 (38)	1135-5/16	1-3/8 (35)	1135-3/16	1-11/16 (43)	1135-5/16 1134-.219
		7	1-3/8 (35)	1135-3/16	1-1/4 (32)	NONE	1-11/16 (43)	1135-5/16 1134-.219				
	Lenior	6	1-1/8 (29)	NONE			1-1/2 (38)	1765-.344	1-3/8 (35)	1765-.219	1-11/16 (43)	1765-.531
		7	1-1/4 (32)	1765-.094			1-11/16 (43)	1765-.531				
2-1/4 (57)	Copenhagen	6	1-1/4 (32)	1765-.094			1-1/2 (38)	1765-.312	1-3/8 (35)	1765-.219	1-11/16 (43)	1765-.500
		7	1-1/4 (32)	1765-.094			1-11/16 (43)	1765-.500				
		7	1-3/8 (35)	1765-.219								
	Carolina Wingate	6	1-1/4 (32)	1134-.094			1-1/2 (38)	1134-.312	1-3/8 (35)	1134-.219	1-11/16 (43)	1134-.500
		7	1-1/4 (32)	1134-.094			1-11/16 (43)	1134-.500				
		7	1-3/8 (35)	1134-.219								
	Finlandia/SL	6	1-3/8 (35)	1765-.094			1-1/2 (38)	1765-.219	1-3/8 (35)	1765-.094	1-11/16 (43)	1765-.406
		7	1-3/8 (35)	1765-.094			1-11/16 (43)	1765-.406				
	Easton	6	1-1/2 (30)	1135-3/16			1-1/2 (38)	1135-3/16			1-11/16 (43)	1135-5/16 1134-.094
		7	1-1/2 (30)	1135-3/16			1-11/16 (43)	1135-5/16 1134-.094				
	Lenior	6	1-1/8 (29)	NONE			1-1/2 (38)	1765-.219	1-3/8 (35)	1765-.094	1-11/16 (43)	1765-.406
		7	1-1/4 (32)	NONE			1-11/16 (43)	1765-.406				
2-1/2 (64)	Copenhagen	6	1-3/8 (35)	1765-.094			1-1/2 (38)	1765-.187				
		7	1-3/8 (35)	1765-.094			1-11/16 (43)	1765-.375				
	Carolina Wingate	6	1-3/8 (35)	1134-.094			1-1/2 (38)	1134-.187				
		7	1-3/8 (35)	1134-.094			1-11/16 (43)	1134-.344				
	Finlandia/SL	6	1-1/2 (30)	1765-.094			1-1/2 (38)	1765-.094				
		7	1-1/2 (30)	1765-.094			1-11/16 (43)	1765-.281				
	Easton	6	1-5/8 (41)	1135-3/16								
		7	1-5/8 (41)	1135-3/16			1-11/16 (43)	1135-1/4				
	Lenoir	6	1-1/4 (32)	NONE			1-1/2 (38)	1765-.094	1-3/8 (35)	NONE	1-11/16 (43)	1765-.281
		7	1-1/4 (32)	NONE			1-11/16 (43)	1765-.281				

Cylinder & Ring Applications

For 8700, 8600, 4600, Series Mortise Locks

Door Thicknesses 1-3/4" thru 3-1/4"

Escutcheon Trim Designs

Dimensions are given in inches (millimeters).

Cylinder List Number		2153, 2153S, 5153, 2123, 2123S Std. Mortise Cyls.			U5153, U5153S, H.S. STD. Cyls.		2196, 2196S, 5196,2197, 2197S, 5197 I.C. Cyls.		5719, 2719 Std. Hotel/Motel Cyls.		5196H, 2196H Hotel/Motel I.C. Cyls.	
Door Thickness	Escutcheon Trim Design	Max. No. of Pins	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings
2-3/4 (70)	Copenhagen	6	1-1/2 (38)	1765-.094			1-1/2 (38)	1765-.062				
		7	1-1/2 (38)	1765-.094			1-11/16 (43)	1765-.250				
	Carolina Wingate	6	1-1/2 (38)	1134-.094			1-1/2 (38)	1134-.062				
		7	1-1/2 (38)	1134-.094			1-11/16 (43)	1134-.250				
	Finlandia/SL	6	1-5/8 (41)	1765-.094								
		7	1-5/8 (41)	1765-.094			1-11/16 (43)	1765-.156				
	Easton	6	1-3/4 (44)	1135-3/16								
		7	1-3/4 (44)	1135-3/16			1-11/16 (43)	1134-.156				
	Lenior	6	1-3/8 (35)	NONE			1-1/2 (38)	NONE			1-11/16 (43)	1765-.156
		7	1-3/8 (35)	NONE			1-11/16 (43)	1765-.156				
3 (76)	Copenhagen	6	1-5/8 (41)	1765-.094								
		7	1-5/8 (41)	1765-.094			1-11/16 (43)	1765-.125				
	Carolina Wingate	6	1-5/8 (41)	1134-.094								
		7	1-5/8 (41)	1134-.094			1-11/16 (43)	1134-.125				
	Finlandia/SL	6	1-3/4 (44)	1765-.094								
		7	1-3/4 (44)	1765-.094			1-11/16 (43)	1765-.062				
	Easton	6	1-7/8 (48)	1135-3/16								
		7	1-7/8 (48)	1135-3/16			1-11/16 (43)	1134-.062				
	Lenoir	6	1-1/2 (30)	NONE							1-11/16 (43)	1765-.156
		7	1-1/2 (30)	NONE			1-11/16 (43)	1765-.062				
3-1/4 (83)	Copenhagen	6	1-3/4 (44)	1765-.094								
		7	1-3/4 (44)	1765-.094								
	Carolina Wingate	6	1-3/4 (44)	1134-.094								
		7	1-3/4 (44)	1134-.094								
	Finlandia/SL	7	1-7/8 (48)	1765-.094								
	Easton	7	2 (51)	1135-3/16								
	Lenoir	6	1-5/8 (41)	NONE							1-11/16 (43)	NONE
		7	1-5/8 (41)	NONE			1-11/16 (43)	NONE				

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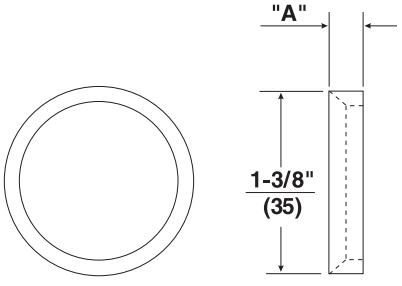
CYLINDER RINGS (COLLARS)

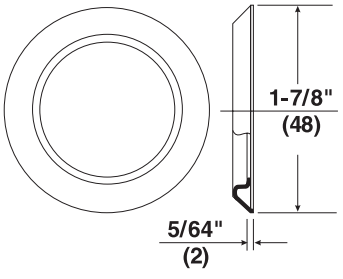
Cylinder Rings (Collars)

Cylinder Rings are supplied as standard with Yale cylinders ordered for replacement in Yale auxiliary rim and mortise locks. They are supplied as required with the original cylinder in the locks. The size and thickness of the cylinder rings is supplied to suit the length of the cylinder, the thickness of the door and the specific lock. See charts on pages 28-32.

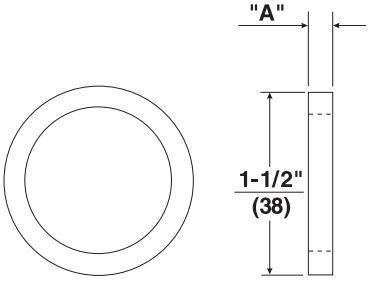
1134 Tubular Cylinder Ring for Mortise Cylinders
Material: Brass Only: "A" Dimension thickness from 1/16" to 15/16" as required. Bronze
"A" Dimension thickensses from 1/16" to 1/2" as required.



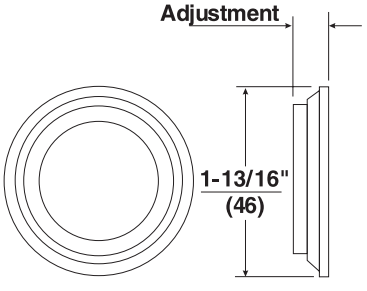
1762 Cylinder Ring for Rim Cylinders
Material: Brass, Bronze.



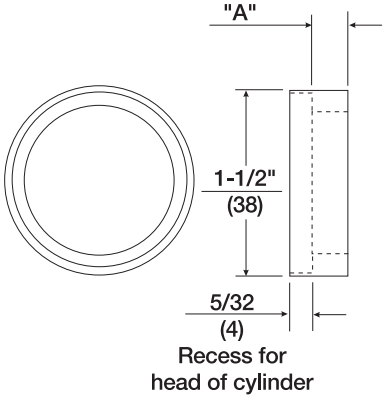
1767 Tubular Spacer Ring for Adjustable Head Cylinders
Material: Brass, Bronze
"A" Dimension: 1/16", 3/16", and 5/16".



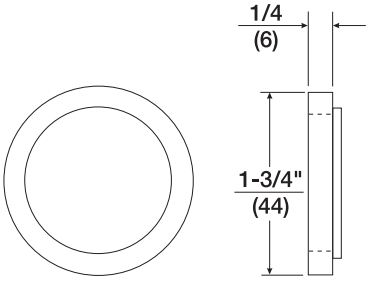
1135 Adjustable Cylinder Ring for Mortise Cylinders
Material: Brass, Bronze
3/16" Size: Adjusts from .22" to .30".
1/4" Size: Adjusts from .26" to .34".
5/16" Size: Adjusts from .30" to .38".



1765 Recessed Cylinder Ring for Mortise and Rim Cylinders
Material: Brass, Bronze
"A" Dimension: Thickness from 1/16" to 15/16" as required.



1766 Cylinder ring for U5109 and U5153 High Security Cylinders.



All Dimension are given in inches (mm).

Cylinder & Ring Applications

Yale®
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For 8700, 8600, 4600, Series Mortise Locks and 300 Series Mortise Locks

Door Thickness 1-3/8" thru 2"

(See Note 3 for 300 Series Codes)

Sectional Trim Designs

Dimensions are given in inches (millimeters).

Cylinder List Number		2153, 2153S, 5153, 2123, 2123S Std. Mortise Cyls,			U5153, U5153S, ● H.S. STD. Cyls.		2196, 2196S, 5196,2197, ■ 2197S, 5197 I.C. Cyls.		2186, 2186S* Adjustable Head Cyls.		2719, 5719 ▲ Std. Hotel/Motel Cyls.		2196H, 5196H Hotel/Motel I.C. Cyls.	
Door Thickness	Rose Trim Design	Max. No. of Pins	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings
1-3/8 (35)	See Note 1	5	15/16 (24)	1135-1/4										
		6	1-1/8 (29)	1135-3/16 1134-.219			1-1/2 (38)	1135-5/16 1134-.500			1-3/8 (35)	1135-5/16 1134-.344	1-11/16 (35)	1135-5/16 1134-.656
		7	1-1/4 (32)	1135-5/16 1134-.219			1-11/16 (43)	1135-5/16 1134-.656						
			1-3/8 (35)	1135-5/16 1134-.344										
	See Note 2	5	1-1/8 (29)	1765-.437										
		6	1-1/8 (29)	1765-.437	1-1/8 (29)	1766	1-1/2 (38)	1765-.844	7/8	1767-.187	1-3/8 (35)	1765-.719	1-11/16 (35)	1765-.924
		7	1-1/4 (32)	1765-.594	1-1/8 (29)	1766	1-11/16 (43)	1765-.924	1	1767-.312		1765-.924		
			1-3/8 (35)	1765-.719										
1-3/4 (44)	See Note 1	5	1-1/8 (29)	1135-5/16										
		6	1-1/8 (29)	1135-3/16			1-1/2 (38)	1135-5/16 1134-.312			1-3/8 (35)	1135-5/16 1134-.187	1-11/16 (35)	1135-5/16 1134-.500
		7	1-1/4 (32)	1135-1/4 1134-.125			1-11/16 (43)	1135-5/16 1134-.500						
			1-3/8 (35)	1135-1/4 1134-.219										
	See Note 2	5	1-1/8 (29)	1765-.250										
		6	1-1/8 (29)	1765-.250	1-1/8 (29)	NONE	1-1/2 (38)	1765-.656	7/8	NONE	1-3/8 (35)	1765-.531	1-11/16 (35)	1765-.844
		7	1-1/4 (32)	1765-.406	1-1/4 (32)	1766	1-11/16 (43)	1765-.844	1	1767-.125				
			1-3/8 (35)	1765-.531										
2 (51)	See Note 1	6	1-1/4 (32)	1135-1/4			1-1/2 (38)	1135-5/16 1134-.187			1-3/8 (35)		1-11/16 (35)	1135-1/4 1134-.437
		7	1-1/4 (32)	1135-1/4			1-11/16 (43)	1135-1/4 1134-.437				1135-1/4 1134-.125		
			1-3/8 (35)	1135-1/4 1134-.125										
	See Note 2	6	1-1/8 (29)	1765-.125	1-1/4 (32)	NONE	1-1/2 (38)	1765-.531	1	NONE	1-3/8 (35)	1765-.406	1-11/16 (35)	1765-.719
		7	1-1/4 (32)	1765-.281	1-1/4 (32)	NONE	1-11/16 (43)	1765-.719	1	NONE				
			1-3/8 (35)	1765-.406										

For 8700, 8600, 4600 Series Mortise Locks and 300 Series Mortise Locks

Door Thicknesses 2-1/4" thru 3-1/4" (See Note 3 for 300 Series Codes)

Sectional Trim Designs
Dimensions are given in inches (millimeters).

Cylinder List Number		2153, 2153S, 5153, 2123, 2123S Std. Mortise Cyls. ●			U5153, U5153S, H.S. STD. Cyls. ■		2196, 2196S, 5196, 2197, 2197S, 5197 I.C. Cyls.		2186, 2186S* Adjustable Head Cyls. ▲		2719**, 5719 Std. Hotel/Motel Cyls.		2196H, 5196H Hotel/Motel I.C. Cyls.	
Door Thickness	Rose Trim Design	Max. No. of Pins	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings	Cylinder Length	Cylinder Rings
2-1/4 (57)	See Note 1	6	1-3/8 (35)	1135-1/4			1-1/2 (38)	1135-1/4 1134-.094			1-3/8 (35)	1135-1/4	1-11/16 (35)	1135-1/4 1134-.312
		7	1-3/8 (35)	1135-1/4			1-11/16 (43)	1135-1/4 1134-.312						
	See Note 2	6	1-1/4 (32)	1765-.156	1-1/4 (32)	NONE	1-1/2 (38)	1765-.406	1-1/8 (29)	NONE	1-3/8 (35)	1765-.281	1-11/16 (35)	1765-.594
		7	1-1/4 (32)	1765-.156	1-1/4 (32)	NONE	1-11/16 (43)	1765-.594	1-1/8 (29)	NONE				
			1-3/8 (35)	1765-.281										
2-1/2 (64)	See Note 1	6	1-1/2 (38)	1135-1/4			1-1/2 (38)	1135-1/4						
		7	1-1/2 (38)	1135-1/4			1-11/16 (43)	1135-1/4 1134-.187						
	See Note 2	6	1-3/8 (35)	1765-.156			1-1/2 (38)	1765-.281	1-1/4 (32)	NONE				
		7	1-3/8 (35)	1765-.156			1-11/16 (43)	1765-.469	1-1/4 (32)	NONE				
2-3/4 (70)	See Note 1	6	1-5/8 (41)	1135-1/4										
		7	1-5/8 (41)	1135-1/4			1-11/16 (43)	1135-5/16						
	See Note 2	6	1-1/2 (38)	1765-.156			1-1/2 (38)	1765-.156						
		7	1-1/2 (38)	1765-.156			1-11/16 (43)	1765-.344						
3 (76)	See Note 1	6	1-3/4 (27)	1135-1/4										
		7	1-3/4 (27)	1135-1/4			1-11/16 (43)	1135-3/16						
	See Note 2	6	1-3/4 (27	1765-.156										
		7	1-5/8 (41)	1765-.156			1-11/16 (43)	1765-.219						
3-1/4 (83)	See Note 1	6	1-7/8 (48)	1135-1/4										
		7	1-7/8 (48)	1135-1/4			1-11/16 (43)	1134-.094						
	See Note 2	6	1-3/4 (44)	1765-.156										
		7	1-3/4 (44)	1765-.156			1-11/16 (43)	1765-.094						

NOTE 1. Covers all sectional trim designs which use the 1135 cylinder ring as standard, with or without 1134 supplemental rings. They are: BFR, BRR, BWR, CAR, CFR, CWR, LFR, LWR & MFR.

NOTE 2. Covers all sectional trim designs which use the 1765 cylinder ring as standard. They are COR, FNR, ARR, AUR, CRR, JNR, MOR, PNR, PBR, & VIR.

NOTE 3.
300 Series Mortise Deadlock Cylinder Numbers

- ● 1153 - Std Mortise Cylinder
- ● 5153 x 1160 Cam. Security Cylinder
- ■ U5153 x 1160 Cam H.S. Cylinder
- ▲ 1196 I Core Cylinder 6 Pin
- ▲ 1197 I Core Cylinder 7 Pin

* Head Thickness - .425
**Use cylinder and ring sized listed for Hotel/Motel lock functions without occupancy indicator button.
For lock functions with indicator button, use cylinders and ring sizes listed under Copenhagen escutcheon plate design on pages 2 thru 4.

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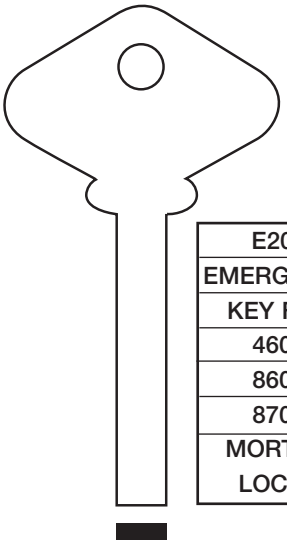
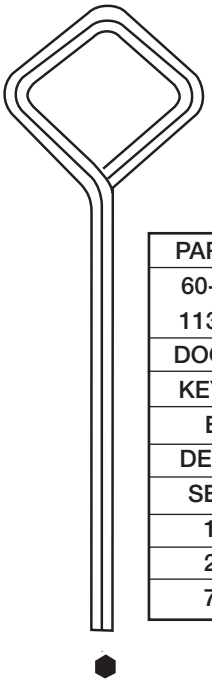
MISC. KEYS / PINNING TOOLS

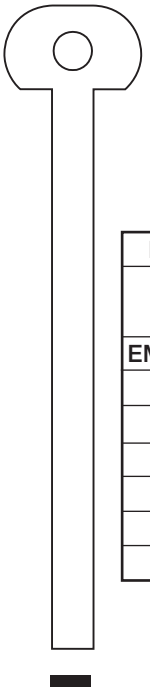
Miscellaneous Keys



E203
EMERGENCY
KEY FOR
4602
8602
8702
MORTISE
LOCKS



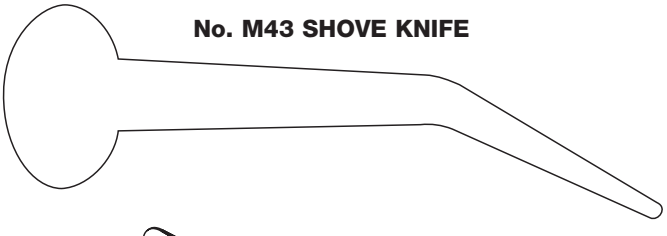
PART NO.
60-7000-
1131-036
DOGGING
KEY FOR
EXIT
DEVICES
SERIES
1500
2100
7000



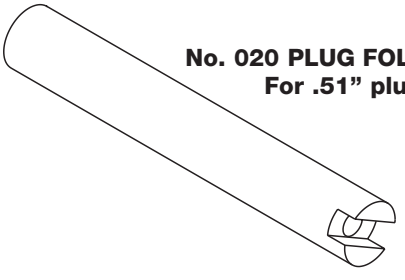
PART NO.
14-5302-
1053-048
EMERGENCY
KEY FOR
5302
5302LN
5402
5402LN
5502

Pinning Tools

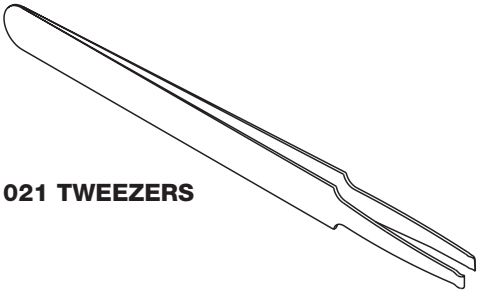
SET UP PLUG
No. M36 For .51” plug
No. M38 For .40” plug



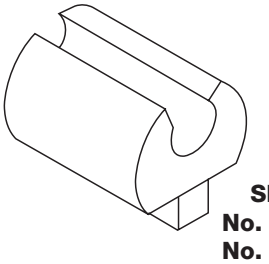
No. M43 SHOVE KNIFE



No. 020 PLUG FOLLOWER
For .51” plug



No. 021 TWEEZERS



SET UP THIMBLE
No. M32 For .51” plug
No. M31 For .40” plug

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HOW TO ORDER YALE KEY SYSTEMS

Procedures

Yale 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, Yale requires the information contained on the Lead Sheets (A) & (B) of the Keyed Order Forms (sample forms attached.)

New or Existing Systems

Indicate system expansion in terms of estimated numbers of key combinations, not doors or in terms of percentages. All of this information is essential at the inception of a keying system in order for Yale to ensure accommodation of the end user's present and future needs. 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?
- Which masters or grands have high security cylinders under them?

Existing System Add-Ons

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

- Registry number stamped on any existing factory master key
- Previous factory keyed order number
- Folder number with original bitting list number

Letters of Authorization

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, Yale requires a letter of authorization on the end user's letterhead, or a copy of the end user's signed purchase order to obtain the following:

- Bitting Lists
- High security product (cylinders, cut keys, key blanks)
- Restricted keyway product (cylinders, cut keys, key blanks)
- Master level cut keys

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.

Bitting List and Bittings

There is a charge for bitting lists and extra bittings. Please refer to current price books for these charges. Letters of authorization are requried for release unless shipped directly to the end user.

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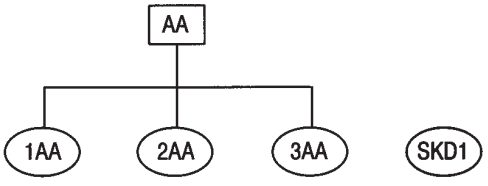
HOW TO ORDER KEY SYSTEMS

2 Level System

To Specify a 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.



3 Level System

To Specify a Grand Master Key System (3 Levels of Keying)

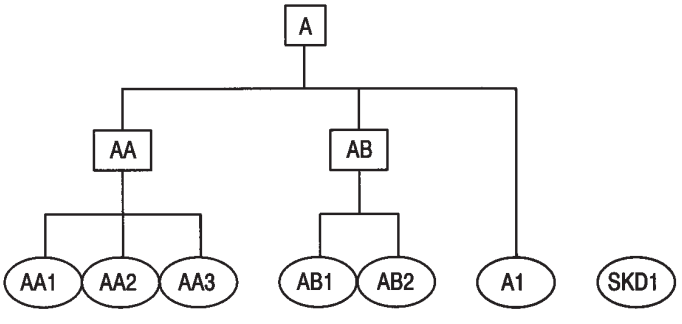
The grand master is assigned any One letter, such as **A**. The master keys under this grand are assigned Two letters, the first of which must be the same as the grand: **AA, AB, AC**, etc. are all masters under grand **A**. Masters **BA, BB, BC**, etc. are all under grand **B.** Caution: Do not use the letters **I** or **O** or **Q** because of possible confusion with the numerals 1 and 0, respectively. Change key numbers come *after* the letters, **e.g., AA1, AA2, AA3,** etc.

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 change key which it 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.



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HOW TO ORDER KEY SYSTEMS

4 Level Systems

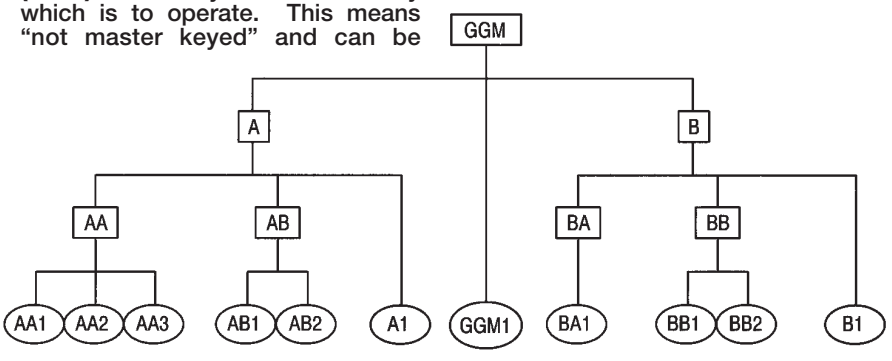
To Specify a Great Grand Master Key System (4 Levels of Keying)

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.

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.

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

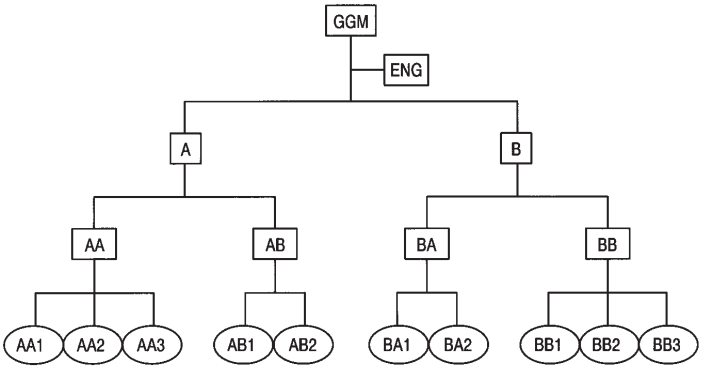
It is often useful in large keying systems to issue a high level master key to maintenance personnel which allows access across all master and grand master key boundaries of a keying system. A selective master key is usually very close to the system's top master key, both physically and through its realm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

To designate the 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 design 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. The lock must be specified as **AA1(ENG).** 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 ORDER KEY SYSTEMS

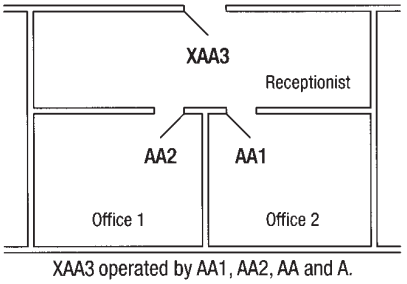
Cross Keying

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**.

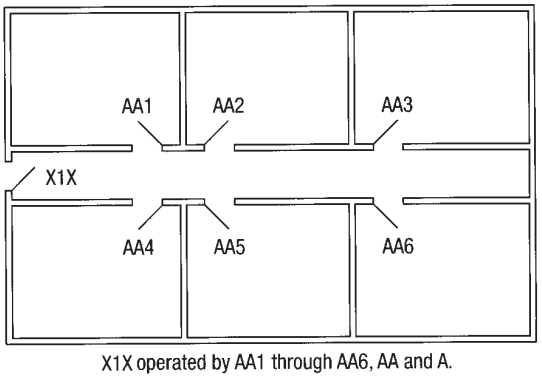


XAA3 operated by AA1, AA2, AA and A.

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. Example: **X1X,** operated by **AA1** thru **AA6, AA, A.**

Remember, when the letter **"X"** precedes a change key (example **XAA3, X1X**, etc.) the **"operated by"** phrase and a continued explanation of how this cylinder is cross keyed **MUST** be submitted with the order.



X1X operated by AA1 through AA6, AA and A.

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Keyed Order - Lead Sheet (A)

(Use with Keyed Order - Condensed Form)

Sheet 1 of ____

Date:

Purchase Order No.:

Date Required:

SOLD TO:

_____

_____

_____

_____

SHIP TO:

_____

_____

_____

_____

1. JOB NAME AND ADDRESS

_____

_____

_____

_____

2. SYSTEM STATUS

☐ New

☐ Existing.....Registry No. _____

Folder No. _____

Original B/L No. _____

Yale Factory Order No. _____

☐ Customer Bittings (please attach)

3. HIGHEST LEVEL OF SYSTEM

☐ 1 - SKD ☐ 2 - MK ☐ 3 - GM

☐ 4 - GGM

4. SYSTEM TYPE

☐ High Security ☐ IC ☐ Conventional

☐ Other _____

5. KEYS

Keyway Selection:

☐ Stock Para ☐ Stock GA ☐ Default

☐ Restricted* ☐ Specific Keyway _____

***Requires Prior Key System Approval.**

Number of Pins: ☐ 5 ☐ 6 (Default) ☐ 7

Key Bow Style: _____

Key Stamping:

☐ VKC1 - Visual Key Control Keys Only
☐ VKC2 - Visual Key Control Keys and Cylinders
☐ VKC3 - Visual Key Control Cylinders Only
☐ CKC2 - Concealed Key Control Cylinders and VKC Keys
☐ CKC3 - Concealed Key Control Cylinders Only
☐ Bittings (Standard for change keys)
☐ DO NOT DUPLICATE
☐ US PROPERTY DO NOT DUPLICATE

☐ Special Stamping: _____

_____

6. KEY QUANTITY

Master Level		Qty.
☐	GGM	
☐	GM	
☐	MK / Group	
☐	Other	
☐	Other	
☐	Other	

Change Keys	Qty.
Per cylinder	
Per keyed alike group	
Per keyed different cylinder	

Special Function	Qty.
☐ Control	
☐ CMK	
☐ CBOK	
☐ Emergency	
☐ SKD Control	
☐ SKD CMK	
☐ Maintenance	
☐ Housekeeping	
☐ Mechanical	
☐ Engineering	
☐ Janitorial	
☐ Other _____	
☐ Other _____	

7. CROSS KEYING

Key Symbol:	To Be Operated By (OBY):

8. CONSTRUCTION MASTER KEYING

This order: ☐ Yes ☐ No

☐ Establish for future use only

Ship Construction Keys To:

_____

_____

_____

_____

Attention: _____

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Keyed Order - Lead Sheet (B)

(Use with Keyed Order - Condensed Form)

Sheet 2 of ____

Date:

Purchase Order No.:

Date Required:

SOLD TO:

10. PACKING AND MARKING

☐ Pack change keys with locks (Standard)
☐ Pack keys separately (High security always)

Label Boxes: ☐ Key symbol
☐ Door No.
☐ Heading

Special Instructions for Change Keys:

11. SHIPPING INSTRUCTIONS FOR MASTER KEYS

Ship Master Keys To:

Attention:

12. BITTING LIST

Provide Bitting List for This Order: ☐ Yes ☐ No
Letter of Authorization: ☐ Attached ☐ On-File

Mail Bitting List To:

Attention:

13. CONTACT

Name of individual in your organization who is knowledgeable about this project, should any clarification be necessary. (Please print or type.)

Name

Phone Fax

ADDITIONAL INFORMATION (attach)

System Expansion Requirements, Special Remarks, etc.

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Keyed Order - Condensed Form

(Use with Keyed Order Lead Sheet)

Sheet _____ of _____

☐ This Sheet Only

Customer Name				Purchase Order No.
QTY.	Series, Function and Trim	Cylinder	Finish	Options (Latch, Strike, etc.)
Special Notes				

Item	Qty.	Key Symbol	Hand (Specify quantity)				Door Number (Up to 10 characters)	Heading (Up to 10 characters)
			RH	LH	RHR	LHR		

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HOW TO ORDER

Not Factory Master Keyed

From this outline select the List Number for the Yale Cylinder & Key info you require.

	Quantity	Cylinder No.	Pins	Keyway	Length	Cam	Ring	Finish	Keying
Example 1	100	2153	6	GA	1-1/8" (29)	2160	1135	26D	0 Bitted
Example 2	100	1802	6	PARA	----	----	----	4	KD

How to Order Factory Master keyed Cylinders

Ordering Factory master keyed cylinders (or locks, or exit devices) requires providing all the necessary information so the Key Records Department can process an order without delay. Providing complete information as called for on the Keyed Order Forms will avoid delay in processing an order. Information necessary to complete these forms will include:

- **Job Name and Location**
  Precisely identify the project including its zip code. If the job is one of a chain of motels, the exact address will identify it as different from another of the chain's motel in the same city. Some projects come to be known by more than one name.
- **Status of System**
  Is this a new project or a extension to an existing system?
- **Levels of Keying**
  Will a simple two level system be adequate or is a three or four level arrangement necessary? This must be determined at a keying conference and the correct symbols used to specify it.
- **Types of Cylinders**
  Master keyed systems can utilize standard, security, UL437, interchangeable core or construction master keyed cylinders and/or combinations thereof. Keyways can be standard or restricted.
- **Keys**
  More than one kind of key can be used within the same masterkey system. Bow types can vary. How many of which keys are needed? Visual key control is available.
- **Packing and Marking**
  Sometimes project specifications demand that keys shall not accompany locks but will be established within a key cabinet for delivery. Master keys should never be sent to a job site. Care needs to be given to how cylinders and keys will be marked to ensure they get to where they are actually needed.

How to Order Keys

	Quantity	Bow Style	Material	Base No.	Section	Pins	Special Information
Example 1	100	R	N	11	GA	6	----
Example 2	100	H	N	11	SB	7	Stamped - Do Not Duplicate

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Fax: (800) 338-0965
www.yalesecurity.com

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Mississauga, Ontario, Canada L4V 1R5
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