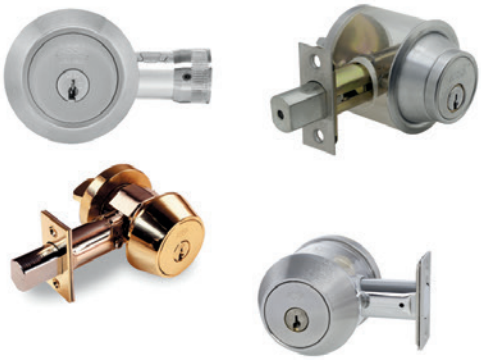
Price List for February 2, 2026

Padlocks



Deadbolt Locks

Auxiliary Locks

Mortise Locks

TECHNICAL SERVICES, INC.

ASSA®

Keys

Mortise Levers

Cylinders Restricted & High Security

Interchangeable Core

Thomas Resciniti Demont is a 4th generation locksmith that has been working in all aspects of the security hardware industry for over 65 years. Over 30 of those years are with ASSA.

Tom sold his sales agency Technical Sales, Inc. to his employees in 1998 to take a position with Arrow and ASSA as their product development and government sales manager.

In 2000, Tom was asked to take ASSA as their National Sales Manager and move the plant from Brooklyn, NY to New Haven, CT. Sales at that time were $1.8M and when Tom retired in 2009 as the Director of Sales & Marketing sales were $7.4M. Retirement was short lived!

By 2010, ASSA asked Tom to take over sales of ASSA mortise locks because it was too cumbersome for the plant to try and process these orders. ASSA Technical Services, Inc., was founded to process ASSA mortise lock sales in the US. After a year of processing orders through New Haven we were asked to order directly from ASSA AB in Sweden.

In 2013, ASSA, Inc., asked us to sell directly to their ASSA Certified Service Centers so that they could maintain their current discount. The factory had changed buying procedures that would harm the ASSA Service Centers and we agreed to work with them to keep ASSA sales in the forefront. Still growing mortise lock sales slowly until 2015 when our counterpart in Canada decided to drop the ASSA mortise lock line and sold their existing inventory to us and we now were servicing all North America.

Our mortise lock inventory doubled overnight as did our demand. Today we stock 75% of the ASSA AB product line and 100% of the ASSA, Inc., product line. Our current inventory stands at over ½ million and is growing each year.

As you will see by this new product catalogue, we offer everything ASSA manufacturers in Sweden and the US to support the ASSA product line. Our company policy is that if we sell you a product, we will put in back-up stock to support you in the future.

Tom

Tom Resciniti Demont, President

ATSI Lock Supply Technical Services, Inc.

ATSI Lock Supply Technical Services, Inc., is not part of the ASSA ABLOY worldwide group of companies. We are a totally independent distributor and we use ASSA in our company name to symbolize the only product we sell.

ATSI Lock Supply
6174 State Route 88, Finleyville, PA 15332
Office: 724-969-2595
Cell/Text: 703-283-6192
Fax: 413-677-7814
Email: sales@atsilock.com

Table of Contents

ASSA TECHNICAL SERVICES, INC.

ASSA RUKO MORTISE LOCKS * ASSA FIX WINDOW HARDWARE * ASSA HIGH SECURITY LOCKS

6174 STATE ROUTE 88
FINLEYVILLE, PA 15332

OFFICE (724) 969-2595
FAX (413) 677-7814

E-MAIL CCA OR ORDERS TO Thomas@assatechnicalservicesinc.com

Credit Card Authorization

Date: _____

Name on Credit Card:_____

Credit Card Type: [ ] American Express [ ] Mastercard [ ] Visa

Credit Card number: _____

Expiration Date: _____ Security Code: _____

Amount to be paid: _____

Credit Card Billing Address: _____

City: _____ Province/State: _____ ZIP Code: _____

Credit Card Billing Phone: _____

Authorized Signature: _____

THE AMERICAS' LARGEST STOCKING DISTRIBUTOR OF ASSA SWEDISH PRODUCTS

The ASSA CLIQ Remote takes the CLIQ concept to a new level by making it possible to give one person, regardless of location, anywhere in the world, the ability to remotely grant or deny access to an opening for a specific period, day or time.

Administrators can make all daily changes to users' access rights without ever needing to have the keys physically or visit the opening. The web-based application CLIQ Web Manager links users with one or more remote programming devices strategically located where users frequently pass such as the staff entrance. All user keys feature a quartz clock making it possible to control the user's authorization during selected times. You can specify both a start and a stop time when a key will have access to a particular opening. Keys can be enabled to work on multiple schedules for different openings.

Employing an optional feature known as revalidation, a user key can be set to expire at regular intervals requiring that the user revalidate the key for current access permissions. Revalidation limits the liability of a lost or stolen key by blocking any future updates. For example, if keys are set to expire every 24 hours, the user must access a remote programming device in order to get new authorization for the next interval. In the event of a lost or stolen user key the electronic authorization can simply be blocked and the key becomes useless.

All ASSA CLIQ Remote electromechanical keys systems can be fully integrated with both Maximum+ and Twin Maximum mechanical systems for maximum flexibility. CLIQ Remote helps you to take a total solution approach to key administration, regardless of facility placement or size, saving both time and money.

Benefits:

- Installation Without Wiring at the Opening
- Access Rights Updated Remotely
- User Key Revalidation
- Multiple Time Schedules
- Audit Trail with Time and Date Stamp
- Extreme Master Keying Capacity
- Cost Effectiveness
- Wide Range of Retrofit Cylinder Shapes
- Same Key Operates both Mechanical and Electronic Lock
- Encrypted (3DES) Level Key Communication

Functionality:

- Battery Life 2 Years or 20K Openings
- HID Prox Chip Option

Warranty:

- 2 Years on Electronics
- ASSA warrants against key breakage under normal use

Certification:

- Patented Key Control
- Operating Temperatures: -40° F to 130° F

* CE and RoHS Approved Key

* EMC Tested According to EN61 000-6-2, 3 (2014/30/EU)

Technical Information:

- Power Supply is Provided by the Key
- 128 bit AES Support Coming in 2021
- Sealed Electronics: IP57 Rated
- CLIQ Connect Bluetooth (BLE) Key Coming in 2023

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ASSA CLIQ Remote™ / Keys & Accessories

CLIQ Remote™ C-Key,
User Key, Master C-Key

CLIQ Remote™
Programming Device

CLIQ Remote™
Remote Wall
Programming Device

CLIQ Remote™
Remote Mobile
Programming Device

ASSA CLIQ Remote™

Item No.	Description	Price
CLIQ-KDRBLE	CLIQ Connect Bluetooth (BLE) User Key	294.00
CLIQ-KDR	CLIQ Remote User Key	195.00
CLIQ-KDRP	CLIQ Remote User Key with Proximity Tag	229.00
CLIQ-RMCK	CLIQ Remote Master C-Key	342.00
CLIQ-RCK	CLIQ Remote C-Key	330.00
CLIQ-PD	CLIQ Programming Device	2,153.00
CLIQ-RPD	CLIQ Remote Wall Programming Device	1,365.00
CLIQ-MPD	CLIQ Remote Mobile Programming Device	1,297.00
CLIQ-VRPD	CLIQ Remote Outdoor/Vandal Resistant Programming Device	2,509.00
CLIQ-REND	CLIQ Remote End User Kit	2,844.00
CLIQ-RDEMO	CLIQ Remote Demo Kit	11,536.00
CLIQ-TRAINING	CLIQ Professional Service	2,385.00/T&E/NET

ASSA CLIQ™ Web Hosting Service

Item No.	Description	Annual Service Fee
CLIQ-WH-B	Basic	1,144.00
CLIQ-WH-RP	Remote Plus	3,085.00
CLIQ-WH-EPW	Enterprise Plus *Required for BLE keys	5,383.00

ASSA CLIQ™ Customer Web Hosting Service

Item No.	Description	1-Time License Fee	Annual Maint. Fee
CLIQ-SH-EPW	Enterprise Plus with Web Services	30,863.00	—
CLIQ-SH-MAINT	Self Hosted Annual Maintenance Fee	—	2,493.00
CLIQ-SU-RP	Customer Hosted Set Up Fee	Price is quoted per installation	

ASSA CLIQ Remote™ Web Manager Features

	Part Number	CLIQ-WH-B	CLIQ-WH-RP	CLIQ-WH-EPW
Features	Description	Hosted Basic	Hosted Remote+	Hosted Enterprise
	Domain Administration	√	√	√
	Remote Programming	x	√	√
	Key Revalidation	x	√	√
	Access Profiles	x	√	√
	Temporary Access Groups	x	√	√
	Flexible Revalidation	x	x	√
	Cylinder Groups	x	x	√
	Web Services for 3rd Party Applications	x	x	√
	Bluetooth (BLE) Keys	x	x	√

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CLIQ
Cut Key


CLIQ
C-Key

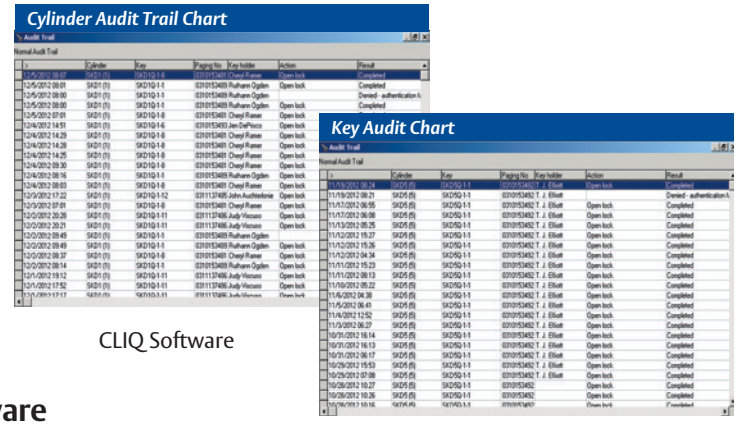

CLIQ
Master
C-Key


CLIQ
Contact
Key

ASSA CLIQ™ Keys

Item No.	Description	Price
CLIQ-KD	CLIQ Cut Key	190.00
CLIQ-KDP	CLIQ-Cut Key with Proximity tag	223.00
CLIQ-CK	CLIQ C-Key	330.00
CLIQ-MCK	CLIQ Master C-Key	342.00
CLIQ-CON	CLIQ Contact Key	295.12


CLIQ Program Device



CLIQ Software

ASSA CLIQ™ Programming Unit & Software

Item No.	Description	Price
CLIQ-END	Program Device with Single Site Performer Software – Manages CLIQ System	3,327.00
CLIQ-END-NT	Program Device with Network Performer Software – Manages CLIQ System	4,042.00
CLIQ-ESDK	Executive Sales Demo Kit	1,078.00/net
CLIQ-DEA	Program Device with Single Site Performer Software – Manages Multiple CLIQ Systems	3,327.00
CLIQ-DEA-NT	Program Device with Network Performer Software – Manages Multiple CLIQ Systems	4,101.00
CLIQ-PD	CLIQ Programming Device	2,153.00
CLIQ-NT-LIC	License Upgrade from Single Site to Network Installation	1,609.00
CLIQ-TRAINING	CLIQ Professional Service	2,385.00/T&E/NET
CLIQ-SDK	Sales Demo Kit	11,130.00

CLIQ-WCVR-PLASTIC $95.90
CLIQ-WCVR-METAL $129.00

All ASSA keys are manufactured from the highest quality nickel silver material. The key's rounded back facilitates smooth operation and minimizes wear. The large key bow simplifies identification and use by manually impaired people.

Available in several profiles ASSA high security keys all feature a unique side milling on the lower portion of the key blade which is precut at the ASSA factory. Each side milling represents a proprietary key section that is factory controlled on a geographic basis providing an unmatched level of patented key control.

Benefits:

- Two sets of key cuts designed to operate independent locking mechanisms
- Innovative key design protected by U.S. and international patents
- Patented key control offers the ultimate in high security
- Top cuts can be generated on standard, quality code cutting equipment
- ASSA's generous keying capabilities allow over 160,000 change keys under a single master key

Certification:

- Maximum+ key listed under U.S. Patent number 8,205,473

Warranty:

- ASSA warrants that if a key should break under normal usage, ASSA will replace it at no charge
- ASSA warrants that no other top level master key for any other ASSA factory generated master key system will operate as a top level key in an end-user's system for a specified geographic territory
- ASSA's patented key systems are legally protected against unauthorized key duplication

Technical Information:

- High quality nickel silver material
- Key combination is read from tip to bow
- No. 1 cut is deepest, No. 9 is shallowest
- Maximum adjacent cut is 5 (example: 1-6 is acceptable, 1-7, 8 or 9 is not)
- Cut depth is measured as root depth from back of key to bottom of cut

Special stamping and custom coining available

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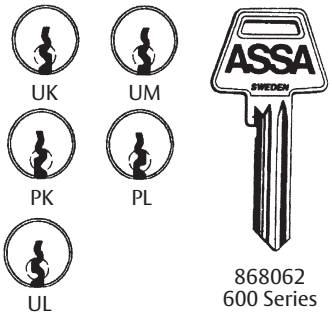
Maximum+


Max+ SFIC


Twin 6000 & Twin Exclusive


Twin V-10


Twin Pro



868062
600 Series

ASSA Cut Keys

Item No.	Description	Price
MAXP-KD	Maximum+ Cut Keys – KD	28.80
MAXP-KA	Maximum+ Cut Keys – KA	28.80
MAXP-MK	Maximum+ Cut Keys – MK	28.80
MAXP-CTRL	Maximum+ Control Key	28.80
TWIN-KD	Twin Exclusive/6000 Classic (Specify Profile) Cut Keys – KD	33.90
TWIN-KA	Twin Exclusive/6000 Classic (Specify Profile) Cut Keys – KA	33.90
TWIN-MK	Twin Exclusive/6000 Classic (Specify Profile) Cut Keys – MK	33.90
TWIN-CTRL	Twin Exclusive/Twin 6000 – CTRL	33.90
V-10-KD	Twin V-10 Cut Keys – KD	33.90
V-10-KA	Twin V-10 Cut Keys – KA	33.90
V-10-MK	Twin V-10 Cut Keys – MK	33.90
V-10-CTRL	Twin V-10 – CTRL	33.90
TPRO-KD	Twin Pro Cut Keys – KD	33.90
TPRO-KA	Twin Pro Cut Keys – KA	33.90
TPRO-MK	Twin Pro Cut Keys – MK	33.90
TPRO-CTRL	Twin Pro – CTRL	33.90
SFIC-KD	ASSA SFIC Cut Keys – KD	28.80
SFIC-KA	ASSA SFIC Cut Keys – KA	28.80
SFIC-MK	ASSA SFIC Cut Keys – MK	28.80
SFIC-CTRL	ASSA SFIC Cut Keys – CTRL	28.80
600-KD	600 Series Cut Keys – KD	31.20
600-KA	600 Series Cut Keys – KA	31.20
600-MK	600 Series Cut Keys – MK	31.20

ASSA Key Blanks

Item No.	Description	Price Each
323330	Maximum+ Key Blank (Specify Sidebar Code)	11.50
762951	ASSA SFIC Blanks – Specify Sidebar Code and Profile	11.50
250694	Twin V-10 Keyblanks/Sidebar code (specify sidebar code)	12.90
816313	Twin Pro Keyblanks/Sidebar code (specify sidebar code)	12.90
E867091	Twin Exclusive Key blanks/Sidebar code (specify sidebar code)	12.90
867091	Twin 6000 Key Blanks (specify sidebar code and profile)	12.90
868062	600 Series Key Blanks – Specify Profile UM, UK, UL, PK, PL	12.50
462000	500 Series – Specify Profile	16.75
462001	700 /Series – Specify Profile	15.75

Key blanks have a 50 piece minimum order quantity per blank.

ASSA Coined Key Blanks

Item#	Description	Price
IDC	Initial die charge	396.00/net
868996	500 minimum key blank quantity each order (Specify profile and side code)	12.30

The ASSA Key Records Department carefully designs and records master key systems in compliance with customer requirements and ASSA security policy. System documents are thoroughly detailed, produced, and professionally presented, and should be considered valuable and confidential. Key Records information and service is available as follows:

Factory Keyed Cylinders

Cylinders pinned by the factory are supplied "Keyed Different" or if so specified as one of the following options:

- Master Keyed (Bittings provided at No Charge when requested with the order).....35.00 per cylinder
- Keyed Alike/Keyed Different.....No Charge
- Single Keyed Different (Part of MK System).....35.00 per cylinder
- Keyed Cylinders: SFIC and CLIQ.....No Charge

Master Key Log

An ASSA Master Key order log file must be submitted electronically to ASSA Key Records for all factory master keyed orders. The form is available by contacting your ASSA Sales Representative, ASSA Customer Service, or on our web site at www.assalock.com/en/resources/forms-and-documents. The completed form is then e-mailed to ASSA Key Records at Assaorders@assalock.com.

ASSA, Inc. uses DHI (Door Hardware Institute) nomenclature as a lock industry standard in key system design such as key coding. Any variation outside of DHI standard has risk. The ASSA Master Key System Development Department will attempt to convert any keying or key coding outside of standard DHI format but accepts no responsibility for mistakes in understanding other nomenclature outside of the DHI industry standard.

Factory Generated Master Key Systems

ASSA will provide new master key systems for pinning by the locksmith in accordance with prices below:

Bitting lists or key charts requested for key sets ordered with a factory keyed product for new or existing master key systems will be provided at "No Charge."

Orders for bitting lists ONLY without factory keyed product will be charged per the price t le below.

Orders for additional bittings for existing master key groups will be provided as follows:

A) Up to 10 bittings under an existing master key already established in the system will be provided at "No Charge." Orders for all bittings requiring the establishment of a new master key in an existing master key system will be provided per the price table below.

B) Orders greater than 10 bittings for an existing master key system will be provided per the price table below.

C) Order acknowledgment will reflect tier number for appropriate quantity.

		ON PAPER				ELECTRONIC			
		Bittings Only		Bittings & Pinnings		Bittings Only		Bittings & Pinnings	
Tier	Quantity	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
1	1-50	MKBC-1B	200.00	MKBC-1BP	600.50	MKBC-1D	94.25	MKBC-1BPD	194.75
2	51-200	MKBC-2B	300.50	MKBC-2BP	799.75	MKBC-2D	94.25	MKBC-2BPD	387.25
3	201-1000	MKBC-3B	398.75	MKBC-3BP	999.50	MKBC-3D	94.25	MKBC-3BPD	484.75
4	1001-5000	MKBC-4B	499.50	MKBC-4BP	1,600.00	MKBC-4D	94.25	MKBC-4BPD	776.75
5	5001-10000	MKBC-5B	630.25	MKBC-5BP	2,400.75	MKBC-5D	94.25	MKBC-5BPD	1,166.75
6	10001-25000	MKBC-6B	858.00	MKBC-6BP	3,107.50	MKBC-6D	182.50	MKBC-6BPD	1,508.00

Over 25,000 or more contact Customer Service for quote. These prices are for a hierarchical Master Key System with no Cross-keying of selective keys. For special requirements, contact Customer Service or Key Records Department. System design changes requested by the customer to an established ASSA master key system are subject to a $500.00 list charge.

Systems prior to 1996, contact Customer Service for quote. Disks will be provided in flat ASCII text only.

Standard KD/KA key stamping includes keyway designation code.
Standard MK system stamping includes standard key coding key symbol.
Do Not Duplicate and other special stamping requirements will be priced at $6.86 per stamp. ASSA can stamp up to 6 alpha-numeric characters. If more are required please consult the factory.

Rekeying Charges

Item No.	Description	Price
RE-KEY	Non-Master Keyed Cylinders	105.00
RE-KEY-MK	Master Keyed Cylinders	133.00

Factory does not recommend cross-keying and will not warranty any cross-keyed cylinders.

ATSI Lock Supply
6174 State Route 88, Finleyville, PA 15332
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Fax: 413-677-7814
Email: sales@atsilock.com

Master Key Order Procedure:

Master key system orders for ASSA products are processed using proprietary software. This allows us to import the customer order data when it is submitted to us in the compatible format described below via E-mail. **All ASSA factory master key systems must be submitted electronically in this format**

Excel File Format:

The format of an Excel file which we can import is shown below. The first row in the file should number the columns 1 through 14, the file should not contain headers or formulas.

The import of an Excel format file offers a special feature regarding systems which incorporate a ENG key. If a particular item is to be operated by the ENG key in addition to the other key indicated by the keyset you can indicate this to our software by adding a suffix of "-E" to the keyset. In such a case AA1 would become AA1-E if it should be operated by the ENG key. This specification option is not available if the imported file is supplied in ASCII format.

In order to ensure that correct master keying information is received and accurate records are maintained, ASSA has designed an Order Log Template. The following is an example of a completed sample order log:

Column	Content	Character Limit
1	Item #	4
2	Cylinder Quantity	4
3	Cyl/Cam PN	12
4	Finish	5
5	Column Unused	Column Unused
6	Keyset	12
7	Key Quantity	4
8	Door #	12
9	Comments	20
10	Special Key Stamp	12 (For stamping other than DHI or SKCS standard)
11	Column Unused	Column Unused
12	Column Unused	Column Unused
13	Column Unused	Column Unused
14	Cross Keying Info	20

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Item#	Cyl.Qty	Cyl/Cam Part#	Finish	None	Keyset	Key.Qty	Door # (Location)	Comments	Spl. Key Stamp	None	None	None	Cross-keying info
2	**1**	**2**	**3**	**4**	5	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**
3	1	1	98611	13		AA1	2	12 - 125						
4	2	1	98611	13		AA2	2	12 - 126						
5	3	1	98611	13		AA3	2	12 - 177						
6	4	3	98611	13		AA4	2	12 - 178						
7	5	1	98611	13		XAA5	2	12 - 179		M01				OpBy A;AA;AA6;AA7;AA8
8	6	1	98611	13		AA6	2	12 - 180						

The template for the order log file that must be submitted with all factory master keyed orders can be found on our web site at **www.assalock.com/en/resources/forms-and-documents.**

When filling out the key quantity column, the quantity of keys entered on the line will be the total number of keys supplied for that line. This field cannot be left blank. **Even if no keys are required a zero must be entered.**

In the example above, item 4 has 3 cylinders and 2 keys specified.

The total number of keys to be supplied for this line is 2.

The Order Log Template is also available by contacting your local ASSA sales representative or ASSA Customer Service. If a computer or the Excel program is not available to you, contact your local ASSA sales representative for assistance in getting the form completed. The completed form along with the formal written purchase order is then e-mailed to ASSA Customer Service at email address **Assaorders@assalock.com**.

The ASSA Key Records Department carefully designs and records master key systems in compliance with customer requirements and ASSA security policy. System documents are thoroughly detailed, produced, and professionally presented, and should be considered valuable and confidential. Key Records information and service is available as follows:

Factory Keyed Cylinders:

Cylinders pinned by the factory are supplied "Keyed Different" or if so specified as one of the following options:

- Master Keyed (Bittings provided at No Charge when requested with the order)
- Keyed Alike/Keyed Different
- Single Keyed Different (Part of MK System)

Factory does not recommend cross-keying and will not warranty any cross-keyed cylinders.

Mortise Cylinders

ASSA mortise cylinders are designed to replace several original manufacturers' cylinders in their locksets offering the highest level of security available on the market today. Made to standard U.S. dimensions, these rugged cylinders are available in a variety of finishes and lengths and stand up to even the heaviest abuse. All ASSA High Security mortise cylinders are listed under U.L. 437, a set of tests for determining the cylinder's physical resistance against various forms of attack. ASSA mortise cylinders will improve the security of standard mortise locksets by Arrow, Corbin/Russwin, Sargent, Schlage, Yale and many other manufacturers.

Benefits:

- Drill resistant cylinder housing and plug
- Case-hardened steel inserts and stainless steel pins
- Two independent locking mechanisms to ensure optimum pick resistance
- Inactive "false" gates in side pins designed to increase pick resistance
- Counter mill in each chamber position to further enhance pick resistance
- Extremely close tolerances
- Can be easily rekeyed in the field
- With the purchase of one inexpensive kit, 1-1/8" mortise cylinder is easily converted to rim cylinder

Certification:

- All ASSA High Security Mortise cylinders are U.L. 437 Listed

Warranty:

- ASSA warrants its cylinders against defective workmanship or wear resulting from defects for one year

Technical Information:

- Available in cylinder lengths 1-1/8" through 2" in 1/8" increments
- Available with limited rotation and/or unidirectional features
- 13 cam options available
- Cylinder housing and plug are made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

Finishes:

BHMA Symbol	U.S. Symbol	Description
625	US 26	Bright Chrome
626	US 26D	Satin Chrome
605	US 3	Bright Brass
606	US 4	Satin Brass
612	US 10	Satin Bronze
624	US 10B	Dark Oxidized Bronze

Note: Plug finishes available in 626 and 606 only.

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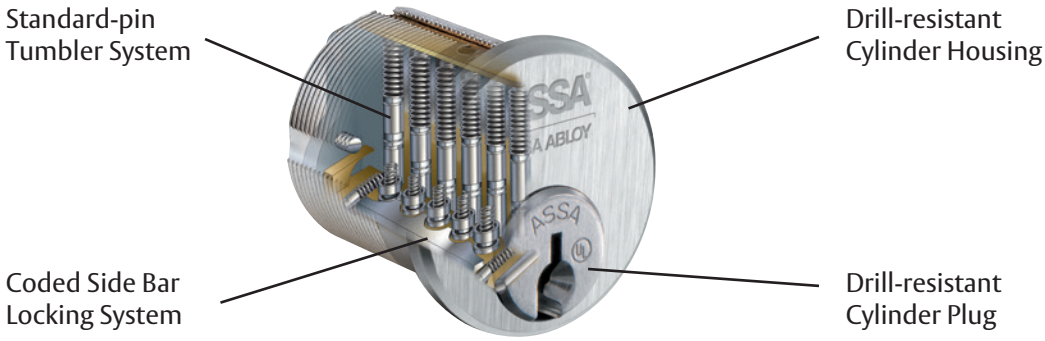
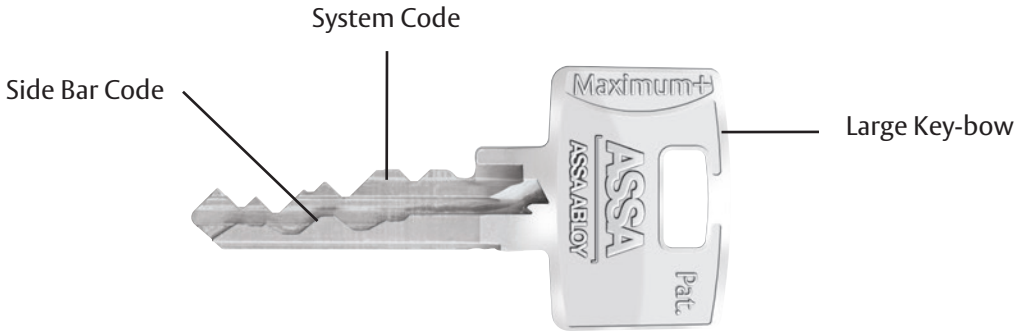
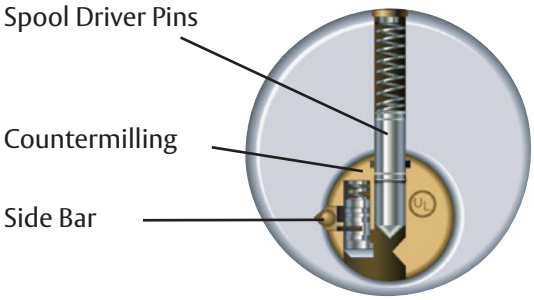
Mortise Cylinders Cut-Away View

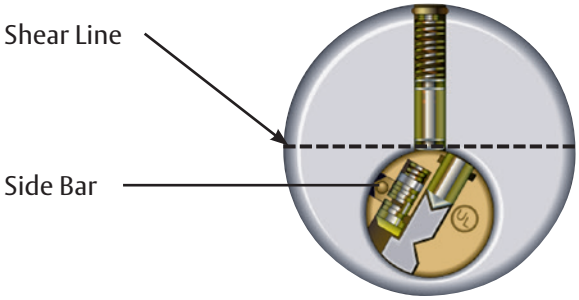






No key inserted:

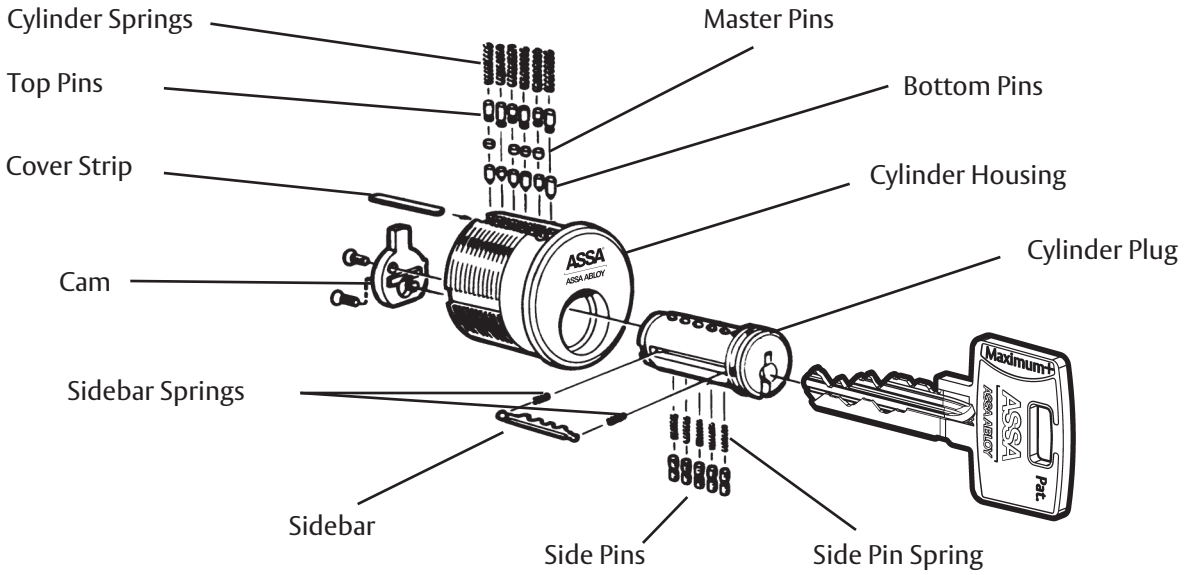
- Standard pins block the shear line
- Side bar rests in groove of cylinder housing, blocking movement of plug



Correct key inserted:

- System code of key lifts standard pins to shear line
- Side bar code of key lifts side pins into a position where the side bar can be received. Side bar then recesses into plug as key is turned

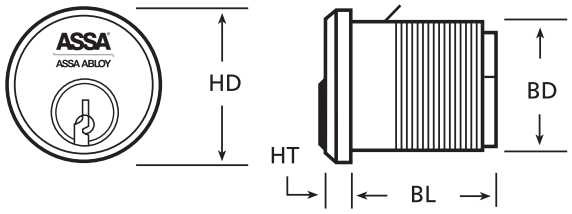
Mortise Cylinders Exploded View



Mortise Cylinders Specifications

Mortise Cylinder Key:

HD – Head Diameter
HT – Head Thickness
BL – Body Length (Includes Cam)
BD – Body Diameter



Description	HD Head Diameter	HT Head Thickness	BL Body Length w/Cam	BD Body Diameter
1-1/8" Mortise Cylinders	1.366"	0.138"	1.125"	1.157"
1-1/4" Mortise Cylinders			1.25"	
1-3/8" Mortise Cylinders			1.375"	
1-1/2" Mortise Cylinders			1.5"	
1-5/8" Mortise Cylinders			1.625"	
1-3/4" Mortise Cylinders			1.75"	
1-7/8" Mortise Cylinders			1.875"	
2" Mortise Cylinders			2.0"	
Corbin Jumbo Mortise Cylinder	1.648"		1.125"	1.492"

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6174 State Route 88, Finleyville, PA 15332
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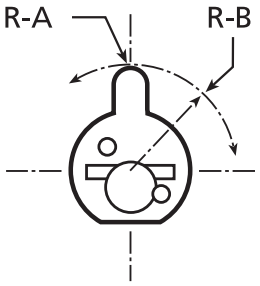
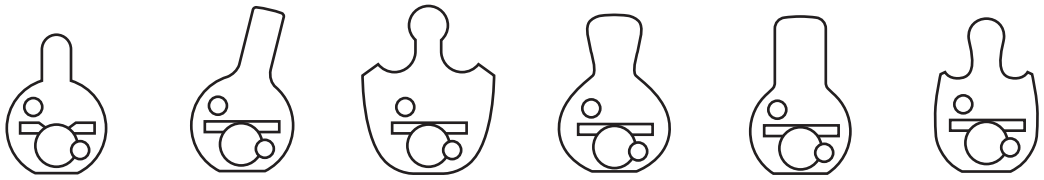
Available Cams for Mortise Locks





#1 Adams Rite

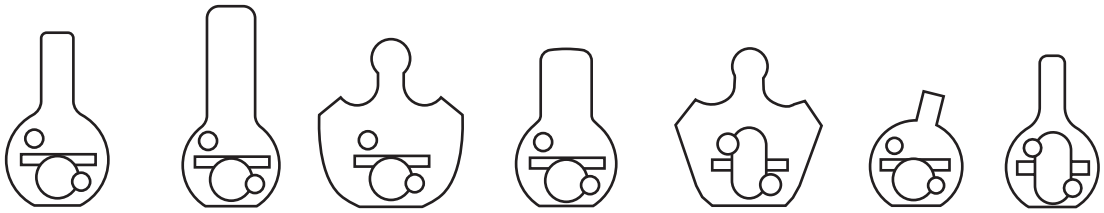
#2 Sargent

#3 Corbin Clover Leaf

#4 Corbin Beaver Tail

#5 Yale Standard

#6 Schlage L



#7 Segal Type

#8 Corbin Jumbo

#9 Best 30H

#10 AirTeq/Norment

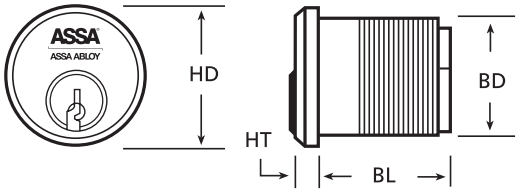
#12 Corbin Jumbo Clover Leaf

#13 Sargent Short

#15 Yale Rep.

Cam #	Description	RA – Head Radius	RB – Overall Radius
#1	Adams Rite Cam	0.118"	0.555"
#2	Sargent Cam	N/A	0.709"
#3	Corbin Clover Leaf Cam	0.114"	0.602"
#4	Corbin Beaver Tail Cam	N/A	0.732"
#5	Yale Standard Cam	N/A	0.709"
#6	Schlage "L" Cam	0.124"	0.516"
#7	Segal Type Cam	N/A	0.779"
#8	Corbin Jumbo Cam	N/A	0.914"
#9	Best 30H Cam	0.114"	0.602"
#10	AirTeq/Norment Cam	N/A	0.787"
#12	Corbin Jumbo Clover Leaf	0.114"	0.828"
#13	Sargent Short Cam	N/A	0.515"
#15	Yale Replacement Cam	0.308"	0.742"

Mortise Cylinders



Mortise Cylinder Key:
HD – Head Diameter
HT – Head Thickness
BL – Body Length (Includes Cam)
BD – Body Diameter

Model#/Cam	Notes	Size	Description	HD	HT	BL	BD	Comp	Sub	SNS
Maximum+										
9851- *(Specify Cam)*	† •	1-1/8"	Maximum+ Mortise Cylinder	1.366"	0.138"	1.125"	1.157"	221.00	201.00	196.00
9852- *(Specify Cam)*	† •	1-1/4"				1.25"		239.00	219.00	214.00
9853- *(Specify Cam)*		1-3/8"				1.375"		524.00	504.00	499.00
9854- *(Specify Cam)*		1-1/2"				1.50"		553.00	533.00	528.00
9855- *(Specify Cam)*		1-5/8"				1.625"		561.00	541.00	536.00
9856- *(Specify Cam)*		1-3/4"				1.75"		571.00	551.00	546.00
9857- *(Specify Cam)*		1-7/8"				1.875"		583.00	563.00	558.00
9858- *(Specify Cam)*		2"				2.0"		594.00	574.00	569.00
Maximum+ Restricted										
R2851- *(Specify Cam)*	†	1-1/8"	Maximum+ Restricted Mortise Cylinder	1.366"	0.138"	1.125"	1.157"	82.10	62.10	—
R2852- *(Specify Cam)*	†	1-1/4"				1.25"		110.00	90.00	—
R2853- *(Specify Cam)*		1-3/8"				1.375"		132.00	112.00	—
R2854- *(Specify Cam)*		1-1/2"				1.50"		119.00	99.00	—
R2855- *(Specify Cam)*		1-5/8"				1.625"		171.00	151.00	—
Twin Maximum										
8851- *(Specify Cam)*	† CLIQ	1-1/8"	Twin Maximum Mortise Cylinder	1.366"	0.138"	1.125"	1.157"	224.00	204.00	199.00
8852- *(Specify Cam)*	† CLIQ	1-1/4"				1.25"		242.00	222.00	217.00
8853- *(Specify Cam)*	CLIQ	1-3/8"				1.325"		532.00	512.00	507.00
8854- *(Specify Cam)*	CLIQ	1-1/2"				1.50"		561.00	541.00	536.00
8855- *(Specify Cam)*	CLIQ	1-5/8"				1.625"		569.00	549.00	544.00
8856- *(Specify Cam)*	CLIQ	1-3/4"				1.75"		580.00	560.00	555.00
8857- *(Specify Cam)*	CLIQ	1-7/8"				1.875"		592.00	572.00	567.00
8858- *(Specify Cam)*	CLIQ	2"				2.0"		603.00	583.00	578.00
Twin Exclusive										
E6551- *(Specify Cam)*	†	1-1/8"	Twin Exclusive Mortise Cylinder	1.366"	0.138"	1.125"	1.157"	279.00	259.00	254.00
E6552- *(Specify Cam)*	†	1-1/4"				1.25"		302.00	282.00	277.00
E6553- *(Specify Cam)*		1-3/8"				1.325"		688.00	668.00	663.00
E6554- *(Specify Cam)*		1-1/2"				1.50"		701.00	681.00	676.00
E6555- *(Specify Cam)*		1-5/8"				1.625"		690.00	670.00	665.00
E6556- *(Specify Cam)*		1-3/4"				1.75"		705.00	685.00	680.00
E6557- *(Specify Cam)*		1-7/8"				1.875"		719.00	699.00	694.00
E6558- *(Specify Cam)*		2"				2.0"		735.00	715.00	710.00
Twin 6000 Classic										
6551- *(Specify Cam)*	† •	1-1/8"	Twin 6000 Classic Mortise Cylinder	1.366"	0.138"	1.125"	1.157"	279.00	259.00	254.00
6552- *(Specify Cam)*	† •	1-1/4"				1.25"		302.00	282.00	277.00
6553- *(Specify Cam)*		1-3/8"				1.375"		688.00	668.00	663.00
6554- *(Specify Cam)*		1-1/2"				1.50"		701.00	681.00	676.00
6555- *(Specify Cam)*		1-5/8"				1.625"		690.00	670.00	665.00
6556- *(Specify Cam)*		1-3/4"				1.75"		705.00	685.00	680.00
6557- *(Specify Cam)*		1-7/8"				1.875"		719.00	699.00	694.00
6558- *(Specify Cam)*		2"				2.0"		735.00	715.00	710.00

† Available in special function cylinders, see page 5, add $58.21. • Available in Raised Plug Face, upcharge will apply.

CLIQ – Twin Maximum available with either CLIQ™ Remote or CLIQ™ Technology, add $889.00
Example: 8851-1 x **CLIQ** x 626 x Sidebar x Comp

How To Order ASSA Mortise Cylinders:

Example:	Model #	Cam #		Finish	Security Form	Keyway
	9851-	1	(Cams 1-6 no extra charge)	626	Sub	0A7-200
			(Cams 7-15 add $5.00 to price of cylinder)			

Contact Customer Service Department for Keyway Numbers.

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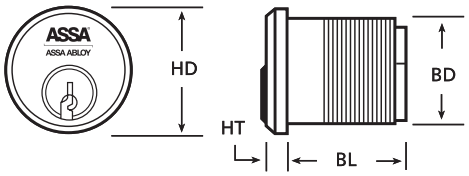
Mortise Cylinders



Mortise Cylinder Key:
HD – Head Diameter
HT – Head Thickness
BL – Body Length (Includes Cam)
BD – Body Diameter

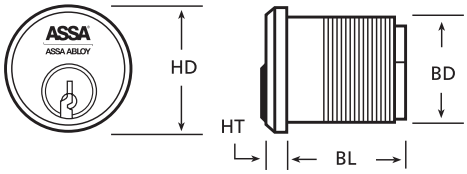
Model#/Cam	Notes	Size	Description	HD	HT	BL	BD	Comp	Sub	SNS
Twin V-10										
V6551- *(Specify Cam)*	†	1-1/8"	Twin V-10 Mortise Cylinder	1.366"	0.138"	1.125"	1.157"	279.00	259.00	254.00
V6552- *(Specify Cam)*	†	1-1/4"				1.25"		302.00	282.00	277.00
V6553- *(Specify Cam)*		1-3/8"				1.375"		688.00	668.00	663.00
V6554- *(Specify Cam)*		1-1/2"				1.50"		701.00	681.00	676.00
V6555- *(Specify Cam)*		1-5/8"				1.625"		690.00	670.00	665.00
V6556- *(Specify Cam)*		1-3/4"				1.75"		705.00	685.00	680.00
V6557- *(Specify Cam)*		1-7/8"				1.875"		719.00	699.00	694.00
V6558- *(Specify Cam)*		2"				2.0"		735.00	715.00	710.00
Twin Pro										
6151- *(Specify Cam)*	†	1-1/8"	Twin Pro Mortise Cylinder	1.366"	0.138"	1.125"	1.157"	279.00	259.00	254.00
6152- *(Specify Cam)*	†	1-1/4"				1.25"		302.00	282.00	277.00
6153- *(Specify Cam)*		1-3/8"				1.325"		688.00	668.00	663.00
6154- *(Specify Cam)*		1-1/2"				1.50"		701.00	681.00	676.00
6155- *(Specify Cam)*		1-5/8"				1.625"		690.00	670.00	665.00
6156- *(Specify Cam)*		1-3/4"				1.75"		705.00	685.00	680.00
6157- *(Specify Cam)*		1-7/8"				1.875"		719.00	699.00	694.00
6158- *(Specify Cam)*		2"				2.0"		735.00	715.00	710.00
600 Series										
651- *(Specify Cam)*	†	1-1/8"	600 Series for UM, UL, UK, PK, PL	1.366"	0.138"	1.125"	1.157"	226.00	204.00	—
652- *(Specify Cam)*	†	1-1/4"				1.25"		259.00	231.50	—
653- *(Specify Cam)*		1-3/8"				1.325"		644.00	616.50	—
654- *(Specify Cam)*		1-1/2"				1.50"		666.00	633.00	—
655- *(Specify Cam)*		1-5/8"				1.625"		704.50	666.00	—
656- *(Specify Cam)*		1-3/4"				1.75"		759.50	726.50	—
657- *(Specify Cam)*		1-7/8"				1.875"		803.50	770.50	—
658- *(Specify Cam)*		2"				2.0"		842.00	803.50	—

† Available in special function cylinders, see page 5, add $58.21.

How To Order ASSA Mortise Cylinders:

Example:	Model #	Cam #	Finish	Security Form	Keyway
	9851-	1 (Cams 1-6 no extra charge) (Cams 7-15 add $5.00 to price of cylinder)	626	Sub	0A7-200

Contact Customer Service Department for Keyway Numbers.



Mortise Cylinder Key:
HD – Head Diameter
HT – Head Thickness
BL – Body Length (Includes Cam)
BD – Body Diameter

Corbin Jumbo Mortise Cylinders

Model#/Cam	Notes	Description	HD	HT	BL	BD	Comp	Sub	SNS
Maximum+									
7951-8	†	**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"	502.00	482.00	477.00
7951-12	†	**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam					502.00	482.00	477.00
Twin Maximum									
7851-8	† CLIQ	**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"	508.00	488.00	483.00
7851-12	† CLIQ	**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam					508.00	488.00	483.00
Twin Exclusive									
E7551-8	†	**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"	619.00	599.00	594.00
E7551-12	†	**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam					619.00	599.00	594.00
Twin 6000 Classic									
7551-8	†	**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"	619.00	599.00	594.00
7551-12	†	**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam					619.00	599.00	594.00
Twin V-10									
V7551-8	†	**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"	619.00	599.00	594.00
V7551-12	†	**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam					619.00	599.00	594.00
Twin Pro									
7151-8	†	**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"	619.00	599.00	594.00
7151-12	†	**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam					619.00	599.00	594.00

† Available in special function cylinders, see page 5, add $58.21.

CLIQ – Twin Maximum available with either CLIQ™ Remote or CLIQ™ Technology, add $889.00.
Example: 7851-8 x **CLIQ** x 626 x Sidebar x Comp

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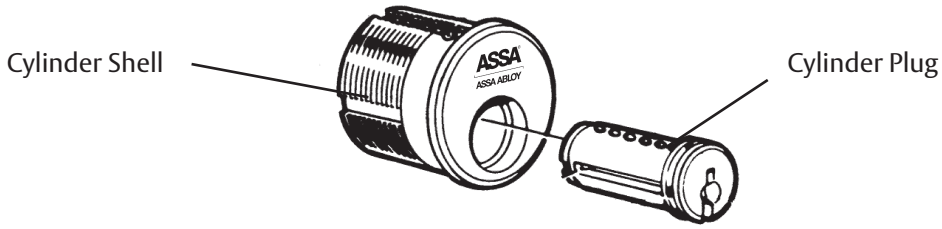

Maximum+ / Twin Maximum / Twin Pro

Model#	Notes	Description	Price
867429	*	1-1/8" Cylinder Shell	145.00
867430	*	1-1/4" Cylinder Shell	145.00
867431	*	1-3/8" Cylinder Shell	245.00
867432	*	1-1/2" Cylinder Shell	245.00
867433	*	1-5/8" Cylinder Shell	231.00
867434	*	1-3/4" Cylinder Shell	240.00
867435	*	1-7/8" Cylinder Shell	256.00
867436	*	2" Cylinder Shell	265.00
807987	*	Corbin Jumbo 1-1/8" Shell	167.00
356955	*†	1-1/8" Cylinder Plug	79.90
356956	*†	1-1/4" Cylinder Plug	79.90
356957	*†	1-3/8" Cylinder Plug	88.20
356958	*†	1-1/2" Cylinder Plug	88.20
356959	*†	1-5/8" Cylinder Plug	96.10
356960	*†	1-3/4" Cylinder Plug	104.00
356961	*†	1-7/8" Cylinder Plug	104.00
356962	*†	2" Cylinder Plug	120.00

* – Indicates Finished Components.
† – Specify Profile. 0A7, 0M7, 0P4

Twin V-10

Model#	Notes	Description	Price
867429	*	1-1/8" Cylinder Shell	145.00
867430	*	1-1/4" Cylinder Shell	145.00
867431	*	1-3/8" Cylinder Shell	245.00
867432	*	1-1/2" Cylinder Shell	245.00
867433	*	1-5/8" Cylinder Shell	231.00
867434	*	1-3/4" Cylinder Shell	240.00
867435	*	1-7/8" Cylinder Shell	256.00
867436	*	2" Cylinder Shell	265.00
807987	*	Corbin Jumbo 1-1/8" Shell	167.00
353970	*	1-1/8" Cylinder Plug	79.90
353971	*	1-1/4" Cylinder Plug	79.90
353972	*	1-3/8" Cylinder Plug	88.20
353973	*	1-1/2" Cylinder Plug	88.20
353974	*	1-5/8" Cylinder Plug	96.10
353975	*	1-3/4" Cylinder Plug	104.00
353976	*	1-7/8" Cylinder Plug	104.00
353977	*	2" Cylinder Plug	120.00

* – Indicates Finished Components

Twin Exclusive / Twin 6000 Classic

Model#	Notes	Description	Price
867429	*	1-1/8" Cylinder Shell	145.00
867430	*	1-1/4" Cylinder Shell	145.00
867431	*	1-3/8" Cylinder Shell	245.00
867432	*	1-1/2" Cylinder Shell	245.00
867433	*	1-5/8" Cylinder Shell	231.00
867434	*	1-3/4" Cylinder Shell	240.00
867435	*	1-7/8" Cylinder Shell	256.00
867436	*	2" Cylinder Shell	265.00
807987	*	Corbin Jumbo 1-1/8" Shell	167.00
367019	*†	1-1/8" Cylinder Plug	79.90
367020	*†	1-1/4" Cylinder Plug	79.90
367021	*†	1-3/8" Cylinder Plug	88.20
367022	*†	1-1/2" Cylinder Plug	88.20
367023	*†	1-5/8" Cylinder Plug	96.10
367024	*†	1-3/4" Cylinder Plug	104.00
367025	*†	1-7/8" Cylinder Plug	104.00
367026	*†	2" Cylinder Plug	120.00

* – Indicates Finished Components.
† – Specify Profile. 51, 851.

600 Series

Model#	Notes	Description	Price
867429	*	1-1/8" Cylinder Shell	143.00
867430	*	1-1/4" Cylinder Shell	143.00
867431	*	1-3/8" Cylinder Shell	242.00
867432	*	1-1/2" Cylinder Shell	242.00
867433	*	1-5/8" Cylinder Shell	227.75
867434	*	1-3/4" Cylinder Shell	236.50
867435	*	1-7/8" Cylinder Shell	253.00
867436	*	2" Cylinder Shell	261.75
807987	*	Corbin Jumbo 1-1/8" Shell	165.00
367019	*†	1-1/8" Cylinder Plug	78.75
367020	*†	1-1/4" Cylinder Plug	78.75
367021	*†	1-3/8" Cylinder Plug	87.00
367022	*†	1-1/2" Cylinder Plug	87.00
367023	*†	1-5/8" Cylinder Plug	94.75
367024	*†	1-3/4" Cylinder Plug	102.75
367025	*†	1-7/8" Cylinder Plug	102.75
367026	*†	2" Cylinder Plug	118.75

* – Indicates Finished Components.
† – Specify Profile. UM, UL, UK, PL, PK.

Commonly used on apartment and condominium doors, ASSA rim cylinders are used on vertical deadbolt locks and are also designed for commercial exit and panic devices. Available with either horizontal/vertical break-off or lazy-motion type break-off tailpieces, ASSA rim cylinders can be ordered with the standard or the Sargent rim exit device mounting patterns. The standard rim cylinder can be easily converted to a mortise cylinder by simply replacing the rim tailpiece assembly with the appropriate cam.

Benefits:

- Drill resistant cylinder housing and plug
- Case-hardened steel inserts and stainless steel pins
- Two independent locking mechanisms to ensure security and optimum pick resistance
- Inactive "false" gates in side pins designed to increase pick resistance
- Counter mill in each chamber position to further enhance pick resistance
- Extremely close tolerances
- Can be easily rekeyed in the field
- Standard and Sargent hole pattern available
- Standard rim cylinder is easily converted to mortise cylinder

Warranty:

- ASSA warrants its cylinders against defective workmanship or wear resulting from defects for one year

Certification:

- All ASSA High Security Rim cylinders are U.L. 437 Listed

Technical Information:

- Available with limited rotation and/or unidirectional features
- Cylinder housing and plug are made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

Finishes:

BHMA Symbol	U.S. Symbol	Description
625	US 26	Bright Chrome
626	US 26D	Satin Chrome
605	US 3	Bright Brass
606	US 4	Satin Brass
612	US 10	Satin Bronze
624	US 10B	Dark Oxidized Bronze

Note: Plug finishes available in 626 and 606 only.

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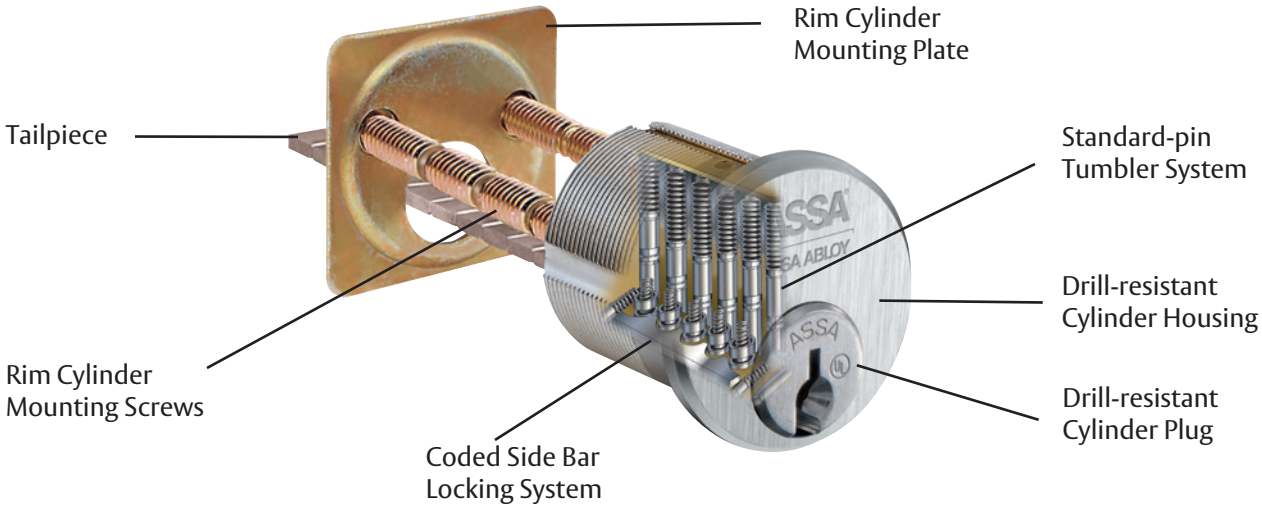
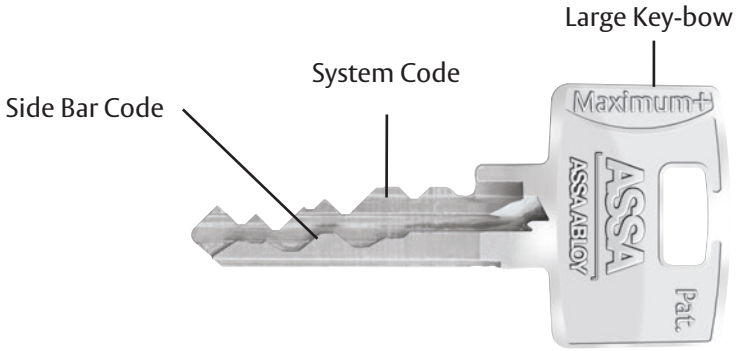
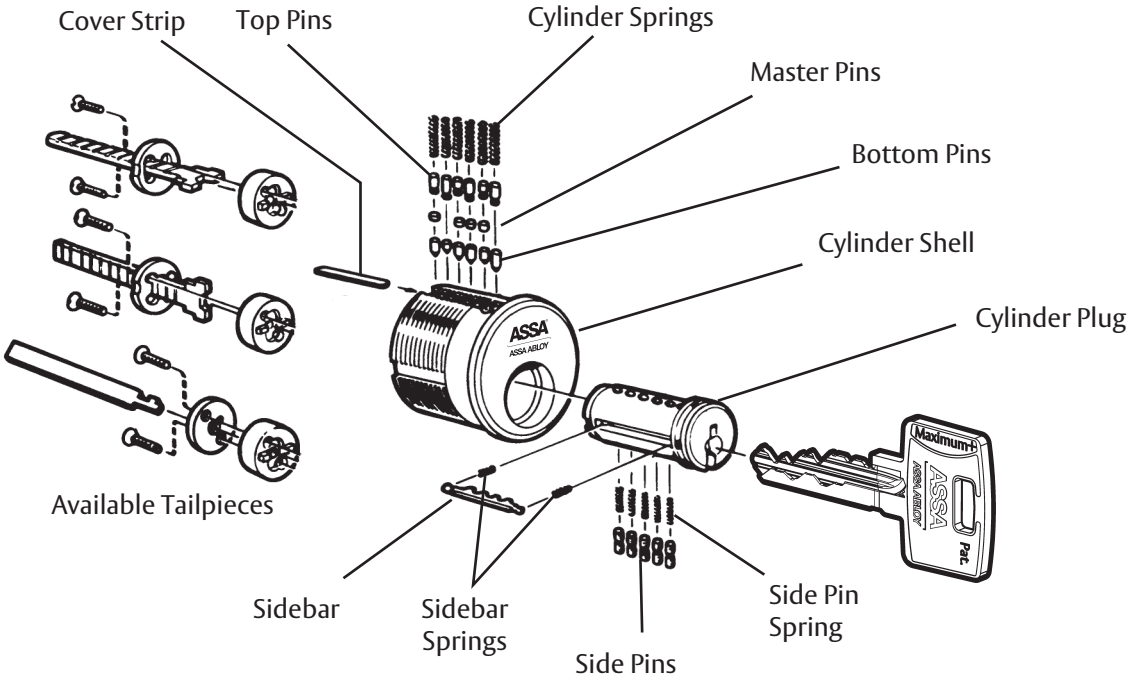
Rim Cylinders Cut-Away View





Rim Cylinders Exploded View



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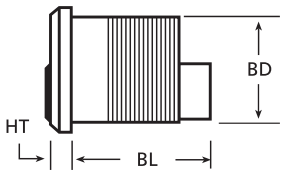
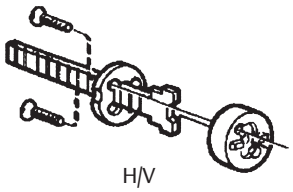
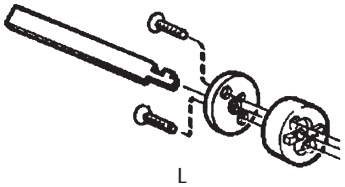
Cell/Text: 703-283-6192
Fax: 413-677-7814
Email: sales@atsilock.com

Available Tailpieces




H/V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Mortise Cylinder Key:
HD – Head Diameter **HT** – Head Thickness **BL** – Body Length (Includes Retainer) **BD** – Body Diameter

Model#	Tailpiece (Specify)	Notes	Description	HD	HT	BL	BD	Comp	Sub	SNS
Maximum+ Rim Cylinders										
9851	H, V, or L	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	1.157"	265.00	245.00	240.00
7951	H, V, or L	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"		502.00	482.00	477.00
S9851	H, V, or L	†	Special SGT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"		292.00	272.00	267.00
Maximum+ Restricted Rim Cylinders										
R2851	H, V, or L		1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	1.157"	101.00	81.00	—
RS2851	H, V, or L		Special SGT Cylinder (Drilled for SGT. Devices)					125.00	105.00	—
Twin Maximum Rim Cylinders										
8851	H, V, or L	† CLIQ	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	1.157"	269.00	249.00	244.00
7851	H, V, or L	† CLIQ	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"		508.00	488.00	483.00
S8851	H, V, or L	† CLIQ	Special SGT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"		297.00	277.00	272.00
Twin Exclusive Rim Cylinders										
E6551	H, V, or L	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	1.157"	319.00	299.00	294.00
E7551	H, V, or L	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"		619.00	599.00	594.00
ES6551	H, V, or L	†	Special SGT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"		347.00	327.00	322.00
Twin 6000 Classic Rim Cylinders										
6551	H, V, or L	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	1.157"	319.00	299.00	294.00
7551	H, V, or L	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"		619.00	599.00	594.00
S6551	H, V, or L	†	Special SGT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"		347.00	327.00	322.00
Twin V-10 Rim Cylinders										
V6551	H, V, or L	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	1.157"	319.00	299.00	294.00
V7551	H, V, or L	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"		619.00	599.00	594.00
VS6551	H, V, or L	†	Special SGT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"		347.00	327.00	322.00
Twin Pro Rim Cylinders										
6151	H, V, or L	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	1.157"	319.00	299.00	294.00
7151	H, V, or L	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"		619.00	599.00	594.00
S6151	H, V, or L	†	Special SGT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"		347.00	327.00	322.00
600 Series Rim Cylinders										
651	H, V, or L	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	1.157"	287.75	254.75	—
751	H, V, or L	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"		583.50	556.00	—
S651	H, V, or L	†	Special SGT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"		330.50	286.50	—

Note: All rim cylinders are supplied with a spring loaded collar. † Available in special function cylinders, see page 5, add $58.21.

CLIQ – Twin Maximum available with either CLIQ™ Remote or CLIQ™ Technology $889.00.

Example: 8851-H x **CLIQ** x 626 x Sidebar x Comp Note: V = Vertical; H = Horizontal; L = Lazy Motion.

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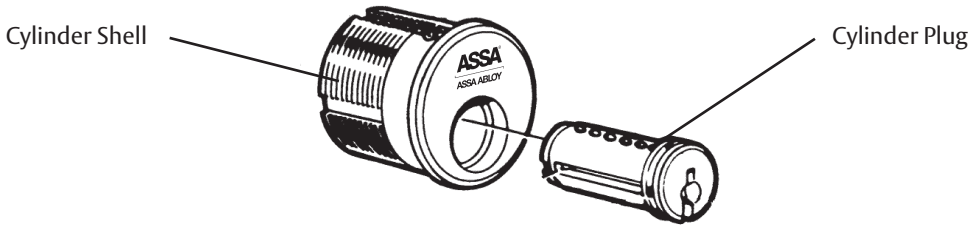
Rim Cylinder Component Parts



Model#	Notes	Description	Price
Maximum + / Twin Maximum / Twin Pro			
354947	*	SARGENT Drilled Rim Shell	232.00
867429	*	1-1/8" Cylinder Shell	145.00
807987	*	Corbin Jumbo 1-1/8" Shell	167.00
356955	*	1-1/8" Cylinder Plug (Profile 0A7 or 0M7)	79.90
Twin Exclusive / Twin 6000 Classic			
354947	*	SARGENT Drilled Rim Shell	232.00
867429	*	1-1/8" Cylinder Shell	145.00
807987	*	Corbin Jumbo 1-1/8" Shell	167.00
367019	*†	1-1/8" Cylinder Plug (Profile 51 or 851)	79.90
Twin V-10			
354947	*	SARGENT Drilled Rim Shell	232.00
867429	*	1-1/8" Cylinder Shell	145.00
807987	*	Corbin Jumbo 1-1/8" Shell	167.00
353970	*†	1-1/8" Cylinder Plug	79.90

* – Indicates Finished Components.
† – Specify Profile.

How To Order ASSA Rim Cylinders:

Example:	Model #	Tailpiece	Finish	Security Form	Keyway
	9851-	H	626	Sub	0A7-200

Contact Customer Service Department for Keyway Numbers.

Rim Cylinder mounting plates, screws included with cylinder.
All items available separately below:

Part No.	Description	Price
900210	Rim cylinder mounting plate	4.24
900211	Rim cylinder mounting screws	3.30
900209	Kit, includes plate and 2 screws	6.02
900212	Rim cylinder collar rings (Finish 605, 624 & 626 **ONLY**)	9.99
867450	Horizontal & Vertical Rim Tailpiece Kit, includes 900209 Kit	40.00
867451	Lazy Motion Rim Tailpiece Kit, includes 900209 Kit	40.00

Aluminum blocking rings, finish 626 or 624 ONLY

Part No.	Thickness	Price
900219	1/4"	11.50
900220	3/8"	11.50
900221	1/2"	11.50

Adjustable collar ring, Item No. 900222, finish 626,605 or 624 **ONLY**, ... 22.20
Hardened collar ring, Item No. 900223, finish 626 or 624 **ONLY**, ... 33.90
Corbin Jumbo Collar, Item No. 900224, finish 626, **ONLY** 28.10

High Security Mogul Cylinders

ASSA Mogul cylinders are designed to provide the maximum level of security and durability. Available for Folger Adam, AirTeq/Norment, R.R. Brink, Sargent, and Southern Steel detention locksets, the ASSA Mogul is the smart choice for today's corrections industry. A hardened cover plate and hardened steel inserts in the cylinder shell provide protection against even the most savage and determined forms of physical attack.

Benefits:

- Hardened plug cover plate to prevent drill attack
- Case-hardened steel inserts and stainless steel pins
- Two independent locking mechanisms to ensure security and optimum pick resistance
- Inactive "false" grooves on side pins designed to enhance pick resistance
- Counter mill in each chamber position to further enhance pick resistance
- Extremely close tolerances
- Can be easily rekeyed in the field

Warranty:

- ASSA warrants its cylinders against defective workmanship or wear resulting from defects for one year

Certification:

- All ASSA Max/Twin Series Mogul cylinders are U.L. 437 listed as well as ASTM F 1577 6.6 compliant for standard test methods for Detention Locks

Technical Information:

- Available in 1-1/8" and 1-1/2" lengths
- Available with limited rotation and/or unidirectional features
- Cylinder housing and plug are made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

Finishes:

BHMA Symbol	U.S. Symbol	Description
626	US 26D	Satin Chrome
606	US 4	Satin Brass

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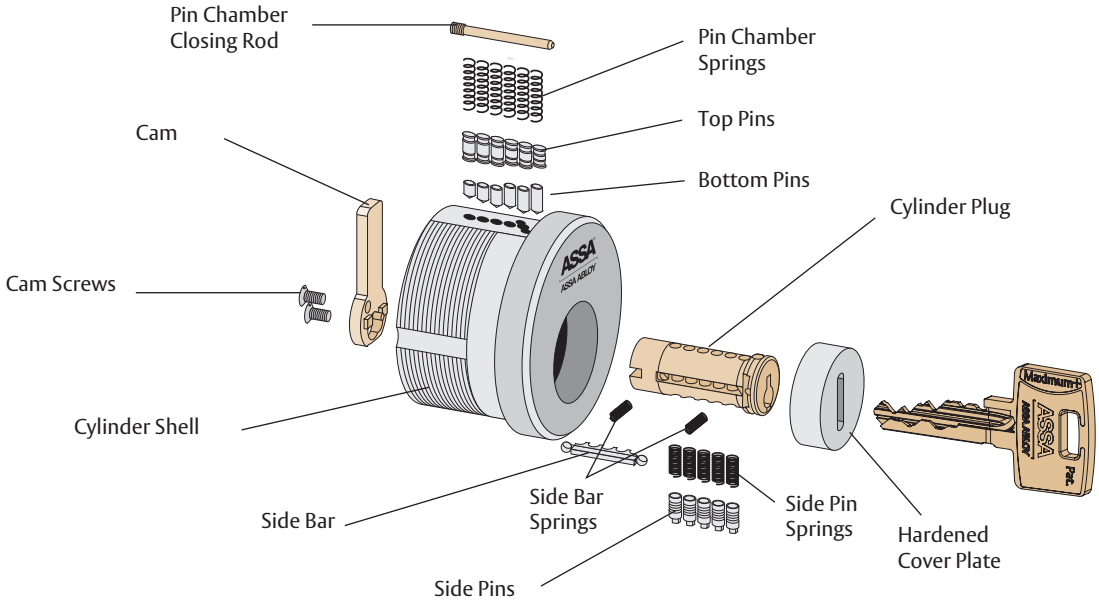
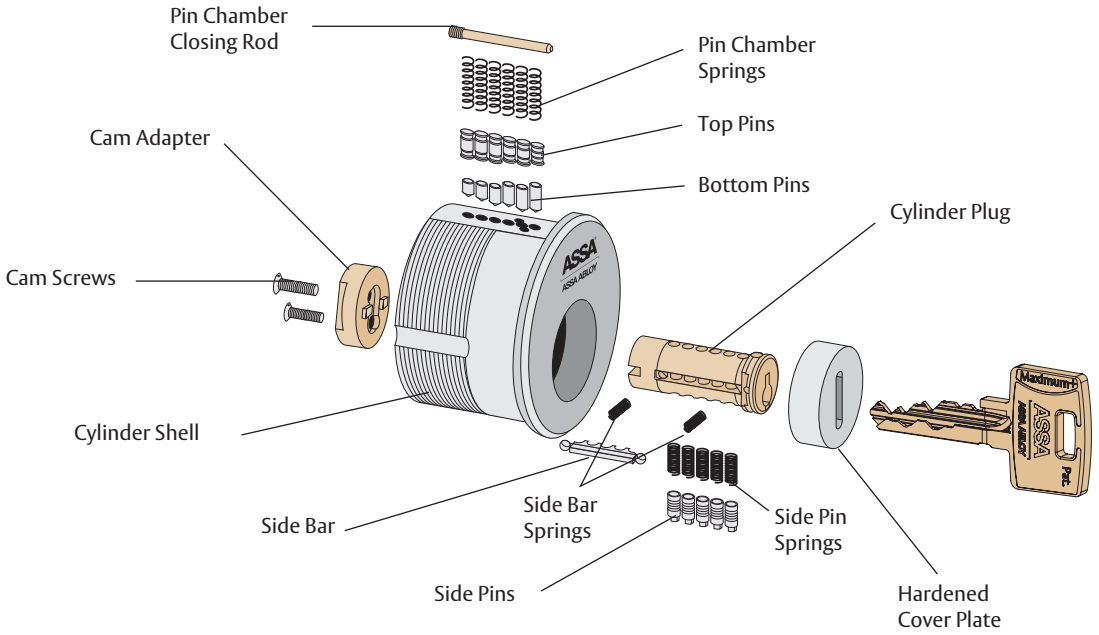
High Security Mogul Cylinders Exploded View

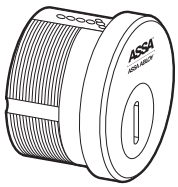
1-1/8" Mogul Cylinder



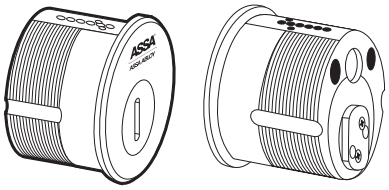
1-1/2" Mogul Cylinder



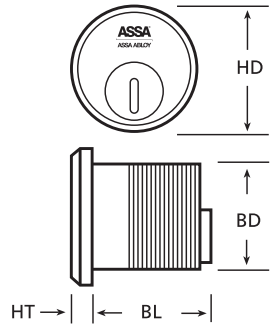
High Security Mogul Cylinders



1-1/8" Mogul Cylinder
AirTeq/Norment,
R.R. Brink



1-1/2" Mogul Cylinder
Southern Steel, Folger Adam,
AirTeq/Norment



Mogul Cylinder Key:
HD – Head Diameter
HT – Head Thickness
BL – Body Length (Includes Cam)
BD – Body Diameter

Mdl#/Cam	Notes	Size	Description	HD	HT	BL	BD	Comp	Sub	SNS
Maximum+ Mogul Cylinders										
9551-11	†	1-1/8"	AirTeq/Norment Cyl with Mogul Cam	2.245"	0.340"	1.260"	2.0"	442.00	422.00	417.00
9551-14	†	1-1/8"	AirTeq/Norment Cyl with SGT Mogul Cam					442.00	422.00	417.00
9551SS	†	1-1/2"	Southern Steel Cyl without Cam		0.120"	1.590"		442.00	422.00	417.00
Twin Maximum Mogul Cylinders										
M8551-11	†	1-1/8"	AirTeq/Norment Cyl with Mogul Cam	2.245"	0.340"	1.260"	2.0"	448.00	428.00	423.00
M8551-14	†	1-1/8"	AirTeq/Norment Cyl with SGT Mogul Cam					448.00	428.00	423.00
M8551SS	†	1-1/2"	Southern Steel Cyl without Cam		0.120"	1.590"		448.00	428.00	423.00
Twin Exclusive Mogul Cylinders										
E8551-11	†	1-1/8"	AirTeq/Norment Cyl with Mogul Cam	2.245"	0.340"	1.260"	2.0"	465.00	445.00	440.00
E8551-14	†	1-1/8"	AirTeq/Norment Cyl with SGT Mogul Cam					465.00	445.00	440.00
E8551SS	†	1-1/2"	Southern Steel Cyl without Cam		0.120"	1.590"		465.00	445.00	440.00
Twin V-10 Mogul Cylinders										
V8551-11	†	1-1/8"	AirTeq/Norment Cyl with Mogul Cam	2.245"	0.340"	1.260"	2.0"	465.00	445.00	440.00
V8551-14	†	1-1/8"	AirTeq/Norment Cyl with SGT Mogul Cam					465.00	445.00	440.00
V8551SS	†	1-1/2"	Southern Steel Cyl without Cam		0.120"	1.590"		465.00	445.00	440.00
Twin 6000 Classic Mogul Cylinders										
8551-11	†	1-1/8"	AirTeq/Norment Cyl with Mogul Cam	2.245"	0.340"	1.260"	2.0"	465.00	445.00	440.00
8551-14	†	1-1/8"	AirTeq/Norment Cyl with SGT Mogul Cam					465.00	445.00	440.00
8551SS	†	1-1/2"	Southern Steel Cyl without Cam		0.120"	1.590"		465.00	445.00	440.00

No Cams offered for 1-1/2" Mogul cylinders

† Available in special function cylinders, see page 5, add $58.21.

How To Order ASSA High Security Mogul Cylinders:

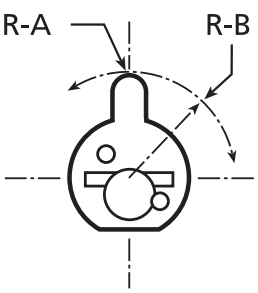
Example:	Model #	Cam	Finish	Security Form	Keyway
	E8551-	11	626	Sub	851-200

Contact Customer Service Department for Keyway Numbers.

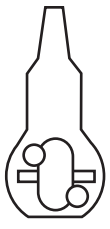
Available Cams for High Security Mogul Cylinders

No Cams offered for 1-1/2" Mogul Cylinders.

† Available in special function cylinders, see page 5.



#11
Mogul



#14
Sargent
Mogul Cam

Cam #	Description	RA – Head Radius	RB – Overall Radius
#11	Mogul Cam	N/A	1.165"
#14	Sargent Mogul Cam	N/A	1.043"

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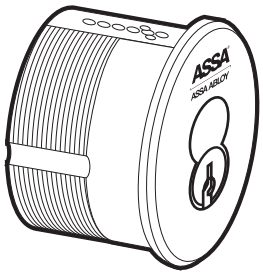
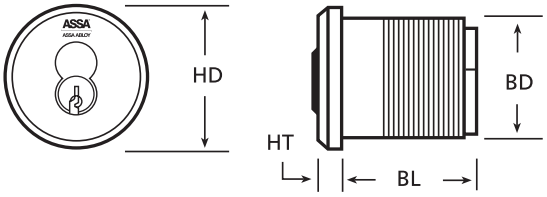
High Security IC Mogul Cylinders



1-1/2" IC Mogul Cylinder



Mogul Cylinder Key:
HD – Head Diameter
HT – Head Thickness
BL – Body Length (Includes Cam)
BD – Body Diameter

Model#/Cam	Notes	Size	Description	HD	HT	BL	BD	Comp	Sub	SNS
Maximum+ Interchangeable Core Mogul Cylinders										
9551SSIC	•	1-1/2"	Southern Steel IC Cyl w/o Cam	2.245"	0.120"	1.590"	2.0"	615.00	595.00	590.00
Twin Maximum Interchangeable Core Mogul Cylinders										
M8551SSIC		1-1/2"	Southern Steel IC Cyl w/o Cam	2.245"	0.120"	1.590"	2.0"	624.00	604.00	599.00
Twin Exclusive Interchangeable Core Mogul Cylinders										
E8551SSIC		1-1/2"	Southern Steel IC Cyl w/o Cam	2.245"	0.120"	1.590"	2.0"	640.00	620.00	615.00
Twin V-10 Interchangeable Core Mogul Cylinders										
V8551SSIC		1-1/2"	Southern Steel IC Cyl w/o Cam	2.245"	0.120"	1.590"	2.0"	640.00	620.00	615.00
Twin 6000 Classic Interchangeable Core Mogul Cylinders										
8551SSIC	•	1-1/2"	Southern Steel IC Cyl w/o Cam	2.245"	0.120"	1.590"	2.0"	640.00	620.00	615.00
ASSA 1-1/2" Temporary Interchangeable Red Core Mogul Cylinders										
8551SSICR		1-1/2"	Southern Steel IC Cyl w/o Cam	2.245"	0.120"	1.590"	2.0"	640.00	—	—

For temporary cores refer to Red Core on page 5.
• Available in Raised Plug Face, upcharge will apply.

High Security Mogul Component Parts

Model#/Cam	Description	Price
354050	Twin Exclusive Plug for 1-1/8" Mogul Cylinder	112.00
250893	Twin Exclusive Plug for 1-1/2" Mogul Cylinder	112.00
250861	Twin V-10 Plug for 1-1/8" Mogul Cylinder	112.00
250894	Twin V-10 Plug for 1-1/2" Mogul Cylinder	112.00
360451†	Max+/Twin Max Plug for 1-1/8" Mogul Cylinder	97.80
251126†	Max+/Twin Max Plug for 1-1/2" Mogul Cylinder	97.80
8551DUM	1-1/8" Mogul Dummy Cylinder	220.00
8551SSDUM	1-1/2" Mogul Dummy Cylinder	220.00
80601*	1-1/2" Mogul IC Housing	386.00
354051*	1-1/8" Mogul Cylinder Housing	159.00
357672*	1-1/2" Mogul Cylinder Housing	165.00
354993	Cam Adapter for 1-1/2" Cylinder	34.10
809339*	Mogul Cylinder Plug Cover Plate	33.80
907035	Mogul Chamber Screw Wrench	3.12
806974	Closing Rod	2.55
812151	Cam Adapter Screws	1.67

* – Indicates Finished Components.
† – Specify Profile: 0A7 or 0M7.
To order Interchangeable Cores separately – see pages 38, 39 & 40 for details.

Interchangeable Core Cylinders

Designed with both security and convenience in mind, the ASSA Large Format Interchangeable core cylinder is perfect for apartment buildings, dormitories, classrooms, and other applications requiring instant rekeying capabilities. This cylinder is adaptable to a variety of large format interchangeable core applications and can be integrated into master keyed systems that use both standard and interchangeable core cylinders. Available in standard ASSA format, large format Schlage, Yale 6 pin, Sargent 6 pin, and Corbin-Russwin 6 pin formats. Only ASSA format High Security Interchangeable core cylinders are listed under U.L. 437.

Benefits:

- Easily rekeyed openings in the field
- Can be used in master key system with standard locks
- Available in multiple manufacturers' formats
- Drill resistant cylinder housing and plug
- Case-hardened steel inserts and stainless steel pins
- Two independent locking mechanisms to ensure security and optimum pick resistance
- Inactive "false" gates in side pins designed to increase pick resistance
- Counter mill in each chamber position to further enhance pick resistance

Technical Information:

- Available for 1-1/4" and 1-3/4" mortise and rim cylinders
- Build-up pins in first four positions operate control feature
- Cylinder housing and interchangeable core are made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

Warranty:

- ASSA warrants its cylinders against defective workmanship or wear resulting from defects for one year

Certification:

- Only ASSA format High Security Interchangeable core cylinders are listed under U.L. 437

Finishes IC Mortise Cylinder Housings Only:

BHMA Symbol	U.S. Symbol	Description
625	US 26	Bright Chrome
626	US 26D	Satin Chrome
605	US 3	Bright Brass
606	US 4	Satin Brass
612	US 10	Satin Bronze
624	US 10B	Dark Oxidized Bronze

Note: Plug and IC Shells available in 626 and 606 finishes only.

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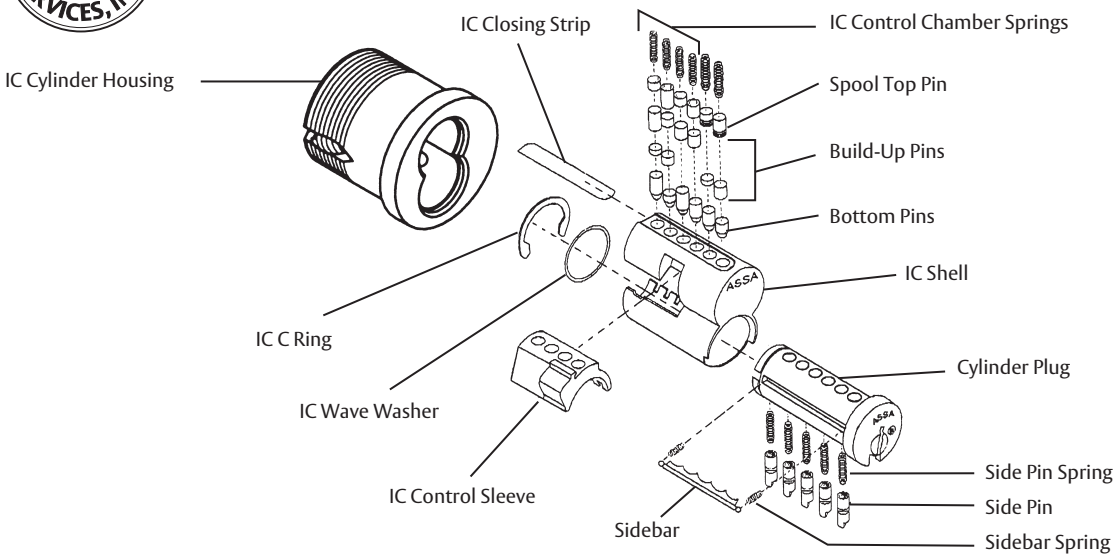
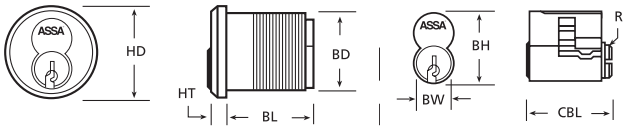
Mortise and Rim IC Cylinders Exploded View



Mortise and Rim IC Cylinders



Mortise Cylinder Key:

HD – Head Diameter
HT – Head Thickness
BL – Body Length (Includes Cam)
BD – Body Diameter
BH – Body Height
BW – Body Width
CBL – IC Core Body Length
R – Retainer

Model#	Cam or Tailpiece (Specify)	Notes	Description	HD	HT	BL	BD	BH	BW	CBL	R	Comp	Sub	SNS
Maximum+ Mortise and Rim IC Cylinders														
9852IC	Cam	•	1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.25"	1.157"	1.055"	0.655"	1.247"	0.036"	346.00	326.00	321.00
9852IC	H, V or L	•	1-1/4" IC Rim Cylinder									386.00	366.00	361.00
7951IC	Cam		1-1/4" Corbin Jumbo IC Mortise Cyl	1.643"								607.00	587.00	582.00
7951IC	H, V or L		1-1/4" Corbin Jumbo IC Rim Cyl									677.00	657.00	652.00
Interchangeable Cores Only														
98600IC		•	ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"	209.00	189.00	184.00
99060IC		†	Sargent Style IC 6 Pin Core Only					N/A	N/A	1.247"		209.00	189.00	184.00
91060IC			Schlage Style IC 6 Pin Core Only					1.045"	0.628"	1.450"		209.00	189.00	184.00
98060IC			Yale Style IC 6 Pin Core Only					1.045"	0.671"	1.415"		209.00	189.00	184.00
95060IC		▲	Corbin Russwin Style IC 6 Pin Core Only					N/A	N/A	N/A	N/A	256.00	236.00	231.00
Maximum+ Restricted Mortise and Rim IC Cylinders														
R2852IC	Cam		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.25"	1.157"	1.055"	0.655"	1.247"	0.036"	243.00	223.00	—
R2852IC	H, V or L		1-1/4" IC Rim Cylinder									283.00	263.00	—
Interchangeable Cores Only														
R28600IC			ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"	165.00	145.00	—
R28060IC			Yale Style IC 6 Pin Core Only					1.045"	0.671"	1.415"		155.00	135.00	—
R21060IC			Schlage Style IC 6 Pin Core Only					1.045"	0.628"	1.450"		155.00	135.00	—

New Product

ASSA SFIC	Comp	Sub	SNS
R28600SFIC-XXX-0B7-ASSA SFIC (6 Pin Only)	103.00	—	89.48
R28601SFIC-XXX-0B7-ASSA SFIC (6 Pin Only) – Less ASSA Logo	103.00	—	89.48

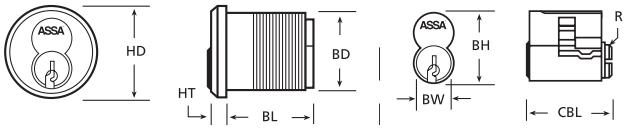
Notes: For temporary cores refer to Red Core on page 5.

† This cylinder requires part # SGTRCTOOL for mortise and rim cylinders. See Page 83.

▲ This cylinder requires part # CRRCTOOL for mortise and rim cylinders. See Page 83.

• Available in Raised Plug Face, upcharge will apply.

Mortise and Rim IC Cylinders



Mortise Cylinder Key:

HD – Head Diameter
HT – Head Thickness
BL – Body Length (Includes Cam)
BD – Body Diameter
BH – Body Height
BW – Body Width
CBL – IC Core Body Length
R – Retainer

Model#	Cam or Tailpiece (Specify)	Notes	Description	HD	HT	BL	BD	BH	BW	CBL	R	Comp	Sub	SNS
Twin Maximum Mortise and Rim IC Cylinders														
8852IC	Cam	CLIQ	1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.25"	1.157"	1.055"	0.655"	1.247"	0.036"	351.00	331.00	326.00
8852IC	H, V or L	CLIQ	1-1/4" IC Rim Cylinder									391.00	371.00	366.00
7851IC	Cam	CLIQ	1-1/4" Corbin Jumbo IC Mortise Cyl	1.643"								615.00	595.00	590.00
7851IC	H, V or L	CLIQ	1-1/4" Corbin Jumbo IC Rim Cyl									633.00	613.00	608.00
Interchangeable Cores Only														
88600IC		CLIQ	ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"	211.00	191.00	186.00
89060IC		† CLIQ	Sargent Style IC 6 Pin Core Only					N/A	N/A	1.247"		211.00	191.00	186.00
81060IC		CLIQ	Schlage Style IC 6 Pin Core Only					1.045"	0.628"	1.450"		211.00	191.00	186.00
88060IC		CLIQ	Yale Style IC 6 Pin Core Only					1.045"	0.671"	1.415"		211.00	191.00	186.00
85060IC		▲	Corbin Russwin Style IC 6 Pin Core Only					N/A	N/A	N/A	N/A	260.00	240.00	235.00
Twin Exclusive Mortise and Rim IC Cylinders														
E6552IC	Cam		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.25"	1.157"	1.055"	0.655"	1.247"	0.036"	432.00	412.00	407.00
E6552IC	H, V or L		1-1/4" IC Rim Cylinder									472.00	452.00	447.00
E7551IC	Cam		1-1/4" Corbin Jumbo IC Mortise Cyl									721.00	701.00	696.00
E7551IC	H, V or L		1-1/4" Corbin Jumbo IC Rim Cyl									762.00	742.00	737.00
Interchangeable Cores Only														
E70600IC			ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"	253.00	233.00	228.00
E90600IC		†	Sargent Style IC 6 Pin Core Only					N/A	N/A	1.247"		253.00	233.00	228.00
E10600IC			Schlage Style IC 6 Pin Core Only					1.045"	0.628"	1.450"		253.00	233.00	228.00
E80600IC			Yale Style IC 6 Pin Core Only					1.045"	0.671"	1.415"		253.00	233.00	228.00

Notes: For temporary cores refer to Red Core on page 5.

† This cylinder requires part # SGTRCTOOL for mortise cylinders. See Page 83.

▲ This cylinder part # CRRCTOOL for mortise cylinders. See Page 83.

CLIQ – Twin Maximum available with either CLIQ™ Remote or CLIQ™ Technology, add $889.00.
Example: 8852IC-1 x **CLIQ** x 626 x Sidebar x Comp.

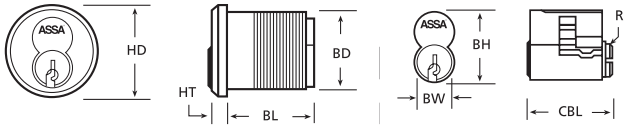
How To Order ASSA Mortise and Rim IC Cylinders:

Example:	Model #	Cam #	Finish	Security Form	Keyway
	9852IC- 1	(Cams 1-6 no extra charge)	626	Sub	0A7-200
		(Cams 7-15 add $5.00 to price of cylinder)			

Contact Customer Service Department for Keyway Numbers.

ATSI Lock Supply
6174 State Route 88, Finleyville, PA 15332
Office: 724-969-2595
Cell/Text: 703-283-6192
Fax: 413-677-7814
Email: sales@atsilock.com

Mortise and Rim IC Cylinders



Mortise Cylinder Key:

HD – Head Diameter
HT – Head Thickness
BL – Body Length (Includes Cam)
BD – Body Diameter
BH – Body Height
BW – Body Width
CBL – IC Core Body Length
R – Retainer

Model#	Cam or Tailpiece (Specify)	Notes	Description	HD	HT	BL	BD	BH	BW	CBL	R	Comp	Sub	SNS
Twin 6000 Classic Mortise and Rim IC Cylinders														
6552IC	Cam		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.25"	1.157"	1.055"	0.655"	1.247"	0.036"	432.00	412.00	407.00
6552IC	H, V or L		1-1/4" IC Rim Cylinder									472.00	452.00	447.00
7551IC	Cam		1-1/4" Corbin Jumbo IC Mortise Cyl									721.00	701.00	696.00
7551IC	H, V or L		1-1/4" Corbin Jumbo IC Rim Cyl									762.00	742.00	737.00
Interchangeable Cores Only														
70600IC		•	ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"	253.00	233.00	228.00
80600IC			Yale Style IC 6 Pin Core Only					1.045"	0.671"	1.415"		253.00	233.00	228.00
Twin V-10 Mortise and Rim IC Cylinders														
V6552IC	Cam		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.25"	1.157"	1.055"	0.655"	1.247"	0.036"	432.00	412.00	407.00
V6552IC	H, V or L		1-1/4" IC Rim Cylinder									472.00	452.00	447.00
V7551IC	Cam		1-1/4" Corbin Jumbo IC Mortise Cyl									721.00	701.00	696.00
V7551IC	H, V or L		1-1/4" Corbin Jumbo IC Rim Cyl									762.00	742.00	737.00
Interchangeable Cores Only														
V70600IC			ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"	253.00	233.00	228.00
V90600IC		†	Sgt StyleIC 6 Pin Core Only					N/A	N/A	1.247"		253.00	233.00	228.00
V10600IC			Shlg Style IC 6 Pin Core Only					1.045"	0.628"	1.450"		253.00	233.00	228.00
V80600IC			Yale Style IC 6 Pin Core Only					1.045"	0.671"	1.415"		253.00	233.00	228.00
Twin Pro Mortise and Rim IC Cylinders														
6152IC	Cam		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.25"	1.157"	1.055"	0.655"	1.247"	0.036"	432.00	412.00	407.00
6152IC	H, V or L		1-1/4" IC Rim Cylinder									472.00	452.00	447.00
7152IC	Cam		1-1/4" Corbin Jumbo IC Mortise Cyl									721.00	701.00	696.00
7152IC	H, V or L		1-1/4" Corbin Jumbo IC Rim Cyl									762.00	742.00	737.00
Interchangeable Cores Only														
61600IC			ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"	253.00	233.00	228.00
69060IC		†	Sgt StyleIC 6 Pin Core Only					N/A	N/A	N/A	N/A	253.00	233.00	228.00
61060IC			Shlg Style IC 6 Pin Core Only					1.055"	0.655"	1.247"	0.036"	253.00	233.00	228.00
68060IC			Yale Style IC 6 Pin Core Only									253.00	233.00	228.00
1-1/4" Temporary Interchangeable Red Core Mortise/Rim Cylinder														
6552ICR	Cam	*	1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.25"	1.157"	–	–	–	–	392.00	—	—
6552ICR	H, V or L	*	1-1/4" IC Rim Cylinder	1.366"	0.175"	1.25"	1.157"					433.00	—	—
70600ICR			Temp. Const. Core (Red Core)	1.055"	0.655"	1.247"	0.036"					236.00	—	—
Interchangeable Core Housings													**Price**	
60601	Cam	*	IC Housing ASSA/Medeco	1.366"	0.175"	1.25"	1.157"	–	–	–	–		129.75	
60601	H, V or L	*	IC Housing ASSA/Medeco	1.366"	0.175"	1.25"	1.157"	–	–	–	–		169.75	
60602	Cam	*	IC Housing Sargent	1.366"	0.175"	1.25"	1.157"	–	–	–	–		129.75	
60602	H, V or L	*	IC Housing Sargent	1.366"	0.175"	1.25"	1.157"	–	–	–	–		169.75	
60603	Cam	*	IC Housing Corbin/Russwin	1.366"	0.175"	1.25"	1.157"	–	–	–	–		129.75	
60603	H, V or L	*	IC Housing Corbin/Russwin	1.366"	0.175"	1.25"	1.157"	–	–	–	–		169.75	
60604	Cam	*	IC Housing Yale	1.366"	0.175"	1.25"	1.157"	–	–	–	–		129.75	
60604	H, V or L	*	IC Housing Yale	1.366"	0.175"	1.25"	1.157"	–	–	–	–		169.75	
60605	Cam	*	IC Housing Schlage	1.366"	0.175"	1.25"	1.157"	–	–	–	–		129.75	
60605	H, V or L	*	IC Housing Schlage	1.366"	0.175"	1.25"	1.157"	–	–	–	–		169.75	
60606	Cam	*	1-3/4" IC Housing SFIC	1.366"	0.175"	1.75"	1.157"	–	–	–	–		357.50	
60606	H, V or L	*	1-3/4" IC Housing SFIC	1.366"	0.175"	1.75"	1.157"	–	–	–	–		380.25	
80601		*	1-1/2" Mogul IC Housing	2.245"	0.120"	1.590"	2.0"	–	–	–	–		380.25	

ATSI Lock Supply
6174 State Route 88, Finleyville, PA 15332
Office: 724-969-2595
Cell/Text: 703-283-6192
Fax: 413-677-7814
Email: sales@atsilock.com

Key-in-Knob/Lever Cylinders

ASSA Key in Knob/Key in Lever cylinders are designed to replace many original manufacturers' cylinders in their locksets including Arrow, Corbin/Russwin, Falcon, Sargent, Schlage, Yale and many other manufacturers thus offering the highest level of security available on the market today.

Benefits:

- Two independent locking mechanisms to ensure security and optimum pick resistance
- Inactive "false" gates in side pins designed to increase pick resistance
- Counter mill in each chamber position to further enhance pick resistance
- Extremely close tolerances
- Can be easily rekeyed in the field
- Patented key control

Warranty:

- ASSA warrants its cylinders against defective workmanship or wear resulting from defects for one year

Certification:

- All ASSA Key-in-Knob/Lever cylinders are U.L. 437 listed

Technical Information:

- Available in 15 different retrofit assemblies
- Cylinder shell and plug made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

Finishes:

BHMA Symbol	U.S. Symbol	Description
626	US 26D	Satin Chrome
606	US 4	Satin Brass

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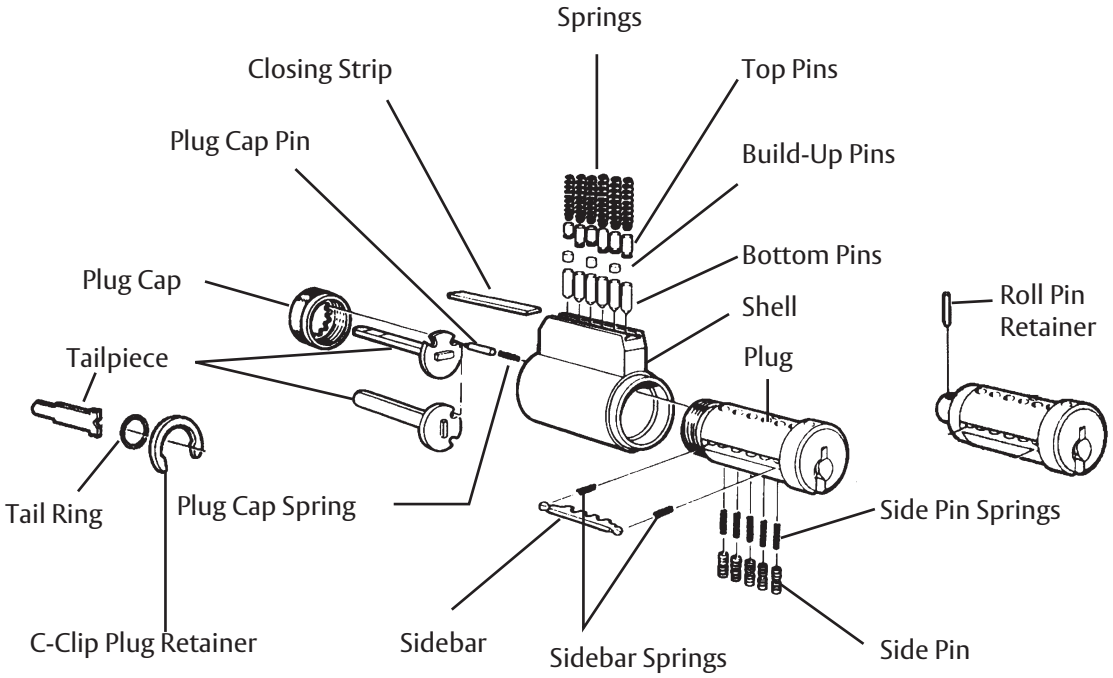
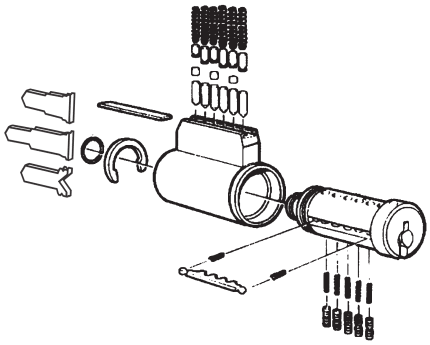
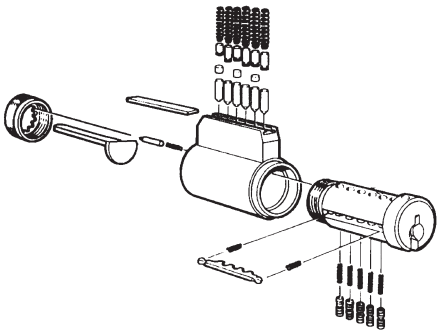
Key-in-Knob/Levers Cylinders Exploded View

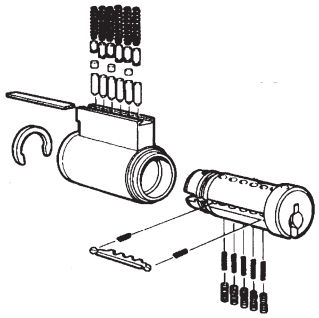




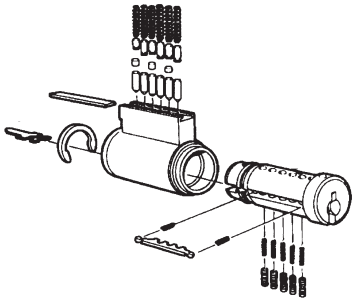
XX691 – Arrow



XX692 – Arrow



XX651 – Corbin/Russwin



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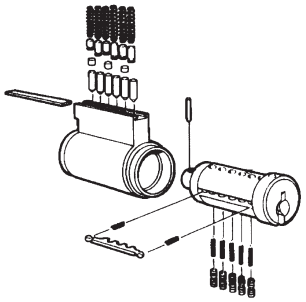

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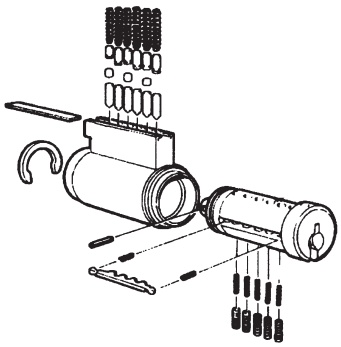
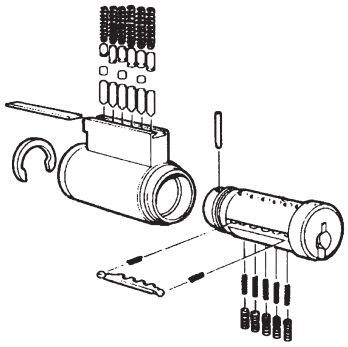
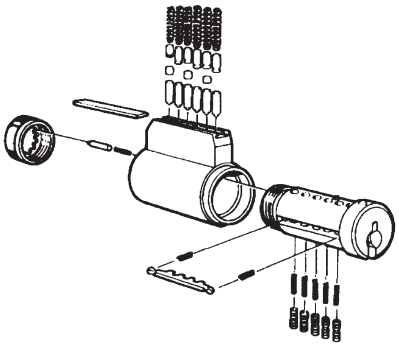


XX654 – Corbin/Russwin

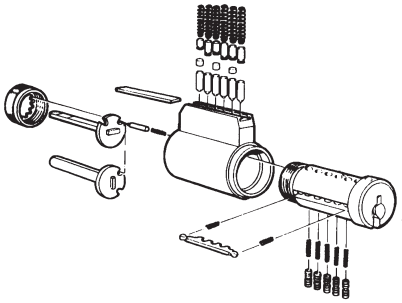
Key-in-Knob/Levers Cylinders Exploded View



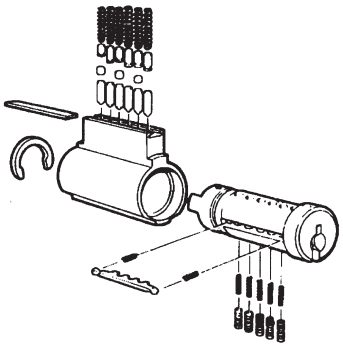
XX655 – Corbin/Russwin



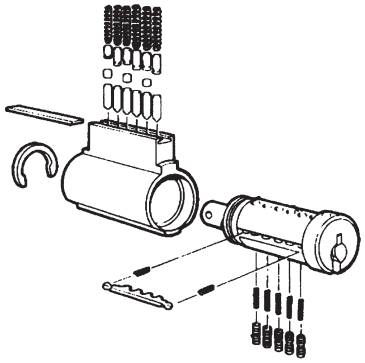
XX661 – Falcon



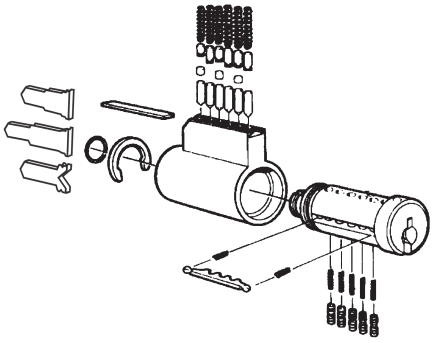
XX611 – Schlage



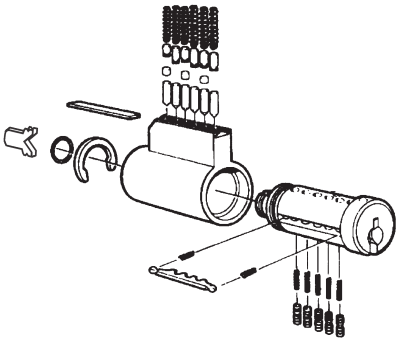
XX671 – Sargent



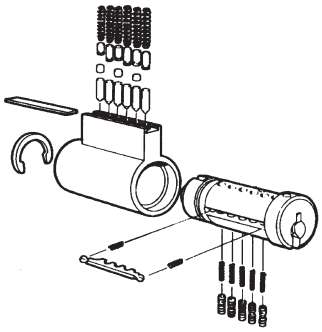
XX672 – Sargent



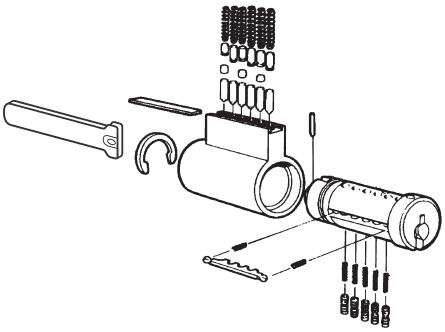
XX673 – Sargent



XX673-TZ – Sargent



XX631 – Yale



XX632 – Yale

ATSI Lock Supply
6174 State Route 88, Finleyville, PA 15332
Office: 724-969-2595
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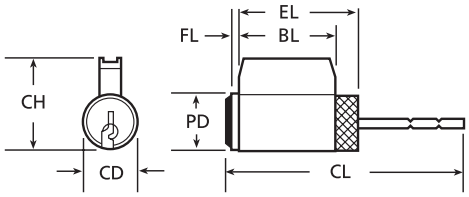
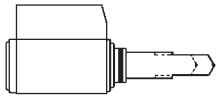
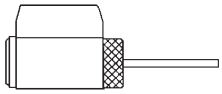
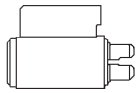
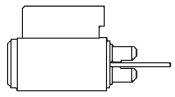
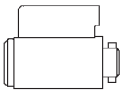
Fax: 413-677-7814
Email: sales@atsilock.com

Key-in-Knob/Levers Cylinders



Key-in-Knob/Lever Key:

BL – Bible Length
CD – Cylinder Diameter
CH – Cylinder Height
CL – Cylinder Length
EL – Effective Length
FL – Front Length
PD – Plug Face Diameter

Make	Model #	Comp	Sub	SNS	Description	BL	CD	CH	CL	EL	FL	PD
Arrow												
Maximum+	98691	196.00	176.00	171.00					2.000			
Maximum+ Restricted	R28691	75.70	55.70	—		1.022	0.634	1.020	2.040	1.268	0.070	0.560
Twin Maximum CLIQ	88691	200.00	180.00	175.00					2.315			
Twin Exclusive	E65691	223.00	202.00	197.00								
Twin 6000 Classic	65691	223.00	202.00	197.00	Standard and heavy-duty, 3 tailpiece included for Arrow C, H, L, M, Q, S & W Series Key-in-Knob & Key-in-Lever styles							
Twin V-10	V65691	223.00	202.00	197.00								
Twin Pro	61691	223.00	202.00	197.00								
Arrow												
Maximum+	98692	196.00	176.00	171.00								
Twin Maximum CLIQ	88692	200.00	180.00	175.00								
Twin Exclusive	E65692	223.00	202.00	197.00		1.022	0.634	1.020	3.465	1.352	0.000	0.560
Twin 6000 Classic	65692	223.00	202.00	197.00	For Arrow deadbolts only, includes tailpieces for double & single cylinders							
Twin V-10	V65692	223.00	202.00	197.00								
Twin Pro	61692	223.00	202.00	197.00								
Corbin/Russwin												
Maximum+	98651	196.00	176.00	171.00								
Maximum+ Restricted	R28651	75.70	55.70	—								
Twin Maximum CLIQ	88651	200.00	180.00	175.00		1.038	0.677	1.071	N/A	1.453	0.135	0.560
Twin Exclusive	E65651	223.00	202.00	197.00								
Twin 6000 Classic	65651	223.00	202.00	197.00	Heavy-duty, new style (Not 3400, 3600, 3800 series) Use for CK4200, & UT5200							
Twin V-10	V65651	223.00	202.00	197.00								
Twin Pro	61651	223.00	202.00	197.00								
Corbin/Russwin												
Maximum+	98652	196.00	176.00	171.00								
Maximum+ Restricted	R28652	75.70	55.70	—								
Twin Maximum CLIQ	88652	200.00	180.00	175.00		1.038	0.677	1.071	2.165	1.453	0.135	0.560
Twin Exclusive	E65652	223.00	202.00	197.00								
Twin 6000 Classic	65652	223.00	202.00	197.00	Standard-duty, new style tailpiece included. For CK4300, 5600, & B2, G2, G3 exit trim							
Twin V-10	V65652	223.00	202.00	197.00								
Twin Pro	61652	223.00	202.00	197.00								
Corbin/Russwin												
Maximum+	98653	244.00	224.00	219.00								
Twin Maximum CLIQ	88653	264.00	244.00	239.00								
Twin Exclusive	E65653	277.00	257.00	252.00		1.038	0.677	1.071	N/A	1.275	0.135	0.560
Twin 6000 Classic	65653	277.00	257.00	252.00	Russwin cylinder 19F35							
Twin V-10	V65653	277.00	257.00	252.00								
Twin Pro	61653	277.00	257.00	252.00								

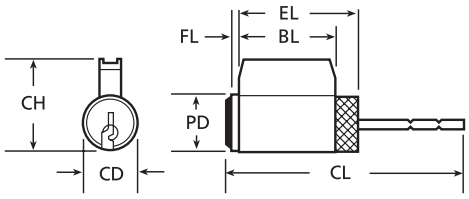
How To Order ASSA Key-in-Knob/Lever Cylinders:

Example:	Model #	Finish	Security Form	Keyway
	98611-	626	Sub	0A7-200

Contact Customer Service Department for Keyway Numbers.

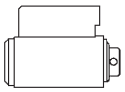
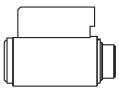
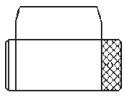
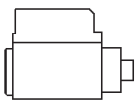
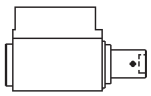
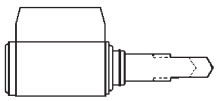
CLIQ – Twin Maximum available with either CLIQ™ Remote or CLIQ™ Technology, add $889.00. Example: 88611 x **CLIQ** x 626 x Sidebar x Comp

Key-in-Knob/Levers Cylinders



Key-in-Knob/Lever Key:

BL – Bible Length
CD – Cylinder Diameter
CH – Cylinder Height
CL – Cylinder Length
EL – Effective Length
FL – Front Length
PD – Plug Face Diameter

Make	Model #	Comp	Sub	SNS	Description	BL	CD	CH	CL	EL	FL	PD
Corbin/Russwin												
Maximum+	98654	244.00	224.00	219.00								
Twin Maximum CLIQ	88654	264.00	244.00	239.00								
Twin Exclusive	E65654	277.00	257.00	252.00		1.038	0.677	1.071	N/A	1.299	0.135	0.560
Twin 6000 Classic	65654	277.00	257.00	252.00								
Twin V-10	V65654	277.00	257.00	252.00								
Twin Pro	61654	277.00	257.00	252.00	Russwin cylinder 25F26, 25F56, 24F15, 67F69, 55F76							
Corbin/Russwin												
Maximum+	98655	244.00	224.00	219.00								
Twin Maximum CLIQ	88655	264.00	244.00	239.00								
Twin Exclusive	E65655	277.00	257.00	252.00		1.038	0.677	1.071	N/A	1.305	0.135	0.560
Twin 6000 Classic	65655	277.00	257.00	252.00								
Twin V-10	V65655	277.00	257.00	252.00	Russwin cylinder 25F65							
Twin Pro	61655	277.00	257.00	252.00								
Falcon												
Twin Exclusive	E65661	277.00	257.00	252.00								
Twin 6000 Classic	65661	277.00	257.00	252.00		1.022	0.634	1.020	N/A	1.325	0.071	0.560
Twin V-10	V65661	277.00	257.00	252.00	S & X Series, Use original manufacturer cap and tailpiece							
Sargent												
Maximum+	98671	244.00	224.00	219.00								
Twin Maximum CLIQ	88671	264.00	244.00	239.00								
Twin Exclusive	E65671	277.00	257.00	252.00		1.025	0.677	1.071	N/A	1.447	0.000	0.560
Twin 6000 Classic	65671	277.00	257.00	252.00								
Twin V-10	V65671	277.00	257.00	252.00								
Twin Pro	61671	277.00	257.00	252.00	Integra							
Sargent												
Maximum+	98672	196.00	176.00	171.00								
Maximum+ Restricted	R28672	75.70	55.70	—								
Twin Maximum CLIQ	88672	200.00	180.00	175.00								
Twin Exclusive	E65672	223.00	202.00	197.00		1.010	0.677	1.071	N/A	1.663	0.020	0.560
Twin 6000 Classic	65672	223.00	202.00	197.00								
Twin V-10	V65672	223.00	202.00	197.00	Heavy-duty 7, 8, 9 lines KIK							
Twin Pro	61672	223.00	202.00	197.00								
Sargent												
Maximum+	98673	196.00	176.00	171.00								
Maximum+ Restricted	R28673	75.70	55.70	—								
Twin Maximum CLIQ	88673	200.00	180.00	175.00					2.000			
Twin Exclusive	E65673	223.00	202.00	197.00		0.990	0.634	1.020	2.040	1.235	0.000	0.560
Twin 6000 Classic	65673	223.00	202.00	197.00					2.315			
Twin V-10	V65673	223.00	202.00	197.00								
Twin Pro	61673	223.00	202.00	197.00	Standard duty 4 tailpieces included 6 Line KIK, 7 Line KIL, 10 Line KIL and 10X Line with OEM spacer & tailpiece							

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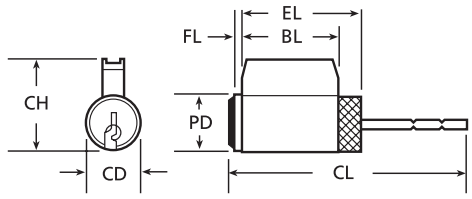
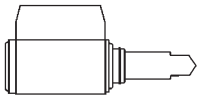
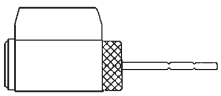
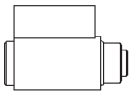
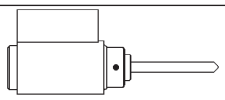
Key-in-Knob/Levers Cylinders



Key-in-Knob/Lever Key:

BL – Bible Length
CD – Cylinder Diameter
CH – Cylinder Height
CL – Cylinder Length
EL – Effective Length
FL – Front Length
PD – Plug Face Diameter

Make	Model #	Comp	Sub	SNS	Description	BL	CD	CH	CL	EL	FL	PD
Sargent T-Zone					 T-Zone 11 Line KIL	0.990	0.634	1.020	1.720	1.235	0.000	0.560
Maximum+	98673-TZ	196.00	176.00	171.00								
Maximum+ Restricted	R28673-TZ	75.70	55.70	—								
Twin Maximum CLIQ	88673-TZ	200.00	180.00	175.00								
Twin Exclusive	E65673-TZ	223.00	202.00	197.00								
Twin 6000 Classic	65673-TZ	223.00	202.00	197.00								
Twin V-10	V65673-TZ	223.00	202.00	197.00								
Twin Pro	61673-TZ	223.00	202.00	197.00								
Schlage					 Schlage 6 pin KIK, KIL, and Deadbolts. Also for most standard and heavy-duty locks that use a "Schlage style" cylinder. Accepts most OEM tailpieces.	1.023	0.634	1.020	2.465	1.250	0.071	0.560
Maximum+	98611	196.00	176.00	171.00								
Maximum+ Restricted	R28611	75.70	55.70	—								
Twin Maximum CLIQ	88611	200.00	180.00	175.00								
Twin Exclusive	E65611	223.00	202.00	197.00								
Twin 6000 Classic	65611	223.00	202.00	197.00								
Twin V-10	V65611	223.00	202.00	197.00								
Twin Pro	61611	223.00	202.00	197.00								
Classic (UM, UL, UK, PK, PL)	6611											
Yale		196.00	176.00	171.00	 Standard and heavy-duty knob	1.000	0.677	1.071	N/A	1.429	0.000	0.560
Maximum+	98631	75.70	55.70	—								
Maximum+ Restricted CLIQ	R28631	200.00	180.00	175.00								
Twin Maximum	88631	223.00	202.00	197.00								
Twin Exclusive	E65631	223.00	202.00	197.00								
Twin 6000 Classic	65631	223.00	202.00	197.00								
Twin V-10	V65631	223.00	202.00	197.00								
Twin Pro	61631											
Yale		196.00	176.00	171.00	 Key-In-Lever style	1.000	0.677	1.071	2.975	1.429	0.000	0.560
Maximum+	98632	75.70	55.70	—								
Maximum+ Restricted CLIQ	R28632	200.00	177.00	175.00								
Twin Maximum	88632	223.00	202.00	197.00								
Twin Exclusive	E65632	223.00	202.00	197.00								
Twin 6000 Classic	65632	223.00	202.00	197.00								
Twin V-10	V65632	223.00	202.00	197.00								
Twin Pro	61632	205.50	184.50	174.00								

How To Order ASSA Key-in-Knob/Lever Cylinders:

Example:	Model #	Finish	Security Form	Keyway
	98672-	626	Sub	0A7-200

Contact Customer Service Department for Keyway Numbers.

CLIQ – Twin Maximum available with either CLIQ™ Remote or CLIQ™ Technology, add $889.00. Example: 88673 x **CLIQ** x 626 x Sidebar x Comp

Maximum+ / Twin Maximum / Twin Pro

Model#	Notes	Description	Price
868056		Schlage Cylinder Shell	88.20
868057		Yale Cylinder Shell	88.20
367156		Russwin/Corbin Cylinder Shell	88.20
868060		Sargent Integra Cylinder Shell	88.20
868061		Sargent Heavy-duty Cylinder Shell	88.20
367159		Sargent Standard-duty Cylinder Shell	88.20
250619		Arrow Cylinder Shell	88.20
907203		Arrow Deadbolt/Weiser KIK Shell	88.20
356982	*†	Schlage Cylinder Plug	96.10
356983	*†	Yale Cylinder Plug – (Must specify KIK or KIL)	92.90
356988	*†	Sargent Integra Cylinder Plug	92.90
356989	*†	Sargent Heavy-Duty 7, 8, 9 Cylinder Plug	92.90
356990	*†	Arrow/Sargent 6-line Cylinder Plug	92.90
356984	*†	Russwin/Corbin std. & Heavy-Duty Cylinder Plug	92.90
356985	*†	Russwin/Corbin 19F35 Cylinder Plug	92.90
356986	*†	Corbin 25F26 Cylinder Plug	92.90
356987	*†	Russwin/Corbin 25F65 Cylinder Plug	92.90
92C-114		Arrow Deadbolt Cap	6.40
92C-127		Schlage KIK Plug Cap Spring	2.26
868960		Schlage KIK Plug Cap Pin	2.25
92C-121		Arrow Deadbolt Washer	2.26
92C-123		Arrow Deadbolt Blocking Piece	4.81
D61-44		Arrow Deadbolt Long Tailpiece (Single Cylinder)	6.40
D62-44		Arrow Deadbolt Short Tailpiece (Double Cylinder)	4.81

* - Indicates Finished Components
† – Specify Profile 0A7, 0M7, 0P4.

Twin Exclusive / Twin 6000 Classic

Model#	Notes	Description	Price
868056		Schlage Cylinder Shell	88.20
868057		Yale Cylinder Shell	88.20
367156		Russwin/Corbin Cylinder Shell	88.20
868060		Sargent Integra Cylinder Shell	88.20
868061		Sargent Heavy-duty Cylinder Shell	88.20
367159		Sargent Standard-duty Cylinder Shell	88.20
250619		Arrow Cylinder Shell	88.20
907203		Arrow Deadbolt/Weiser KIK Shell	88.20
367068	*†	Schlage Cylinder Plug	96.10
367069	*†	Yale Cylinder Plug – (Must specify KIK or KIL)	92.90
367073	*†	Sargent Integra Cylinder Plug	92.90
367074	*†	Sargent Heavy-Duty 7, 8, 9 Cylinder Plug	92.90
868233	†	Falcon S & X Series/Weiser Deadbolt Plug	92.90
868607	*†	Arrow/Sargent 6-line Cylinder Plug	92.90
868649	*†	Russwin/Corbin std. & Heavy-Duty Cylinder Plug	92.90
868650	*†	Russwin/Corbin 19F35 Cylinder Plug	92.90
868651	*†	Corbin 25F26 Cylinder Plug	92.90
868652	*†	Russwin/Corbin 25F65 Cylinder Plug	92.90
467068	*†	Arrow Deadbolt Plug	92.90
92C-114		Arrow Deadbolt Cap	6.40
92C-127		Schlage KIK Plug Cap Spring	2.26
868960		Schlage KIK Plug Cap Pin	2.15
92C-121		Arrow Deadbolt Washer	2.26
92C-123		Arrow Deadbolt Blocking Piece	4.81
D61-44		Arrow Deadbolt Long Tailpiece (Single Cylinder)	6.40
D62-44		Arrow Deadbolt Short Tailpiece (Double Cylinder)	4.81

* - Indicates Finished Components
† – Specify Profile 51, 851.

Twin V-10

Model#	Notes	Description	Price
868056		Schlage Cylinder Shell	88.20
868057		Yale Cylinder Shell	88.20
367156		Russwin/Corbin Cylinder Shell	88.20
868060		Sargent Integra Cylinder Shell	88.20
868061		Sargent Heavy-duty Cylinder Shell	88.20
367159		Sargent Standard-duty Cylinder Shell	88.20
250619		Arrow Cylinder Shell	88.20
907203		Arrow Deadbolt/Weiser KIK Shell	88.20
353978	*	Schlage Cylinder Plug	96.10
353979	*	Yale Cylinder Plug – (Must specify KIK or KIL)	92.90
353980	*	Sargent Integra Cylinder Plug	92.90
353981	*	Sargent Heavy-Duty 7, 8, 9 Cylinder Plug	92.90
353982	*	Falcon S & X Series/Weiser Deadbolt Plug	92.90
353983	*	Arrow/Sargent 6-line Cylinder Plug	92.90
353984	*	Russwin/Corbin std. & Heavy-Duty Cylinder Plug	92.90
353985	*	Russwin/Corbin 19F35 Cylinder Plug	92.90
353986	*	Corbin 25F26 Cylinder Plug	92.90
353787	*	Russwin/Corbin 25F65 Cylinder Plug	92.90
92C-114		Arrow Deadbolt Cap	6.40
92C-127		Schlage KIK Plug Cap Spring	2.26
868960		Schlage KIK Plug Cap Pin	2.15
92C-121		Arrow Deadbolt Washer	2.26
92C-123		Arrow Deadbolt Blocking Piece	4.81
D61-44		Arrow Deadbolt Long Tailpiece (Single Cylinder)	6.40
D62-44		Arrow Deadbolt Short Tailpiece (Double Cylinder)	4.81

* - Indicates Finished Components

ATSI Lock Supply
6174 State Route 88, Finleyville, PA 15332
Office: 724-969-2595
Cell/Text: 703-283-6192
Fax: 413-677-7814
Email: sales@atsilock.com

The ASSA 6000 Series deadbolt is designed to withstand any form of physical attack including drilling, prying, driving, or pulling. Its free spinning guard collars protect it from pipe wrenching while its hardened inserts guard against drilling. The 6000 comes equipped with the ASSA Hardhat™ to protect it from outside through-the-door attacks known as "ice picking." All ASSA 6000 Series deadbolts are available with interchangeable core and feature our unique dual locking mechanism rendering them virtually pick proof.

Benefits:

- ASSA Hardhat™ to prevent physical attack
- Free spinning guard collars to prevent wrenching
- Available in interchangeable core
- High security solid brass cylinders
- 1/4" Aircraft strength steel mounting bolts
- Hardened bolt with full 1" throw
- Non-handed

Warranty:

- ASSA warrants its cylinders and deadbolts against defective workmanship or wear resulting from defects for one year

Certification:

- All ASSA 6000 Deadbolts are U.L. 437 Listed

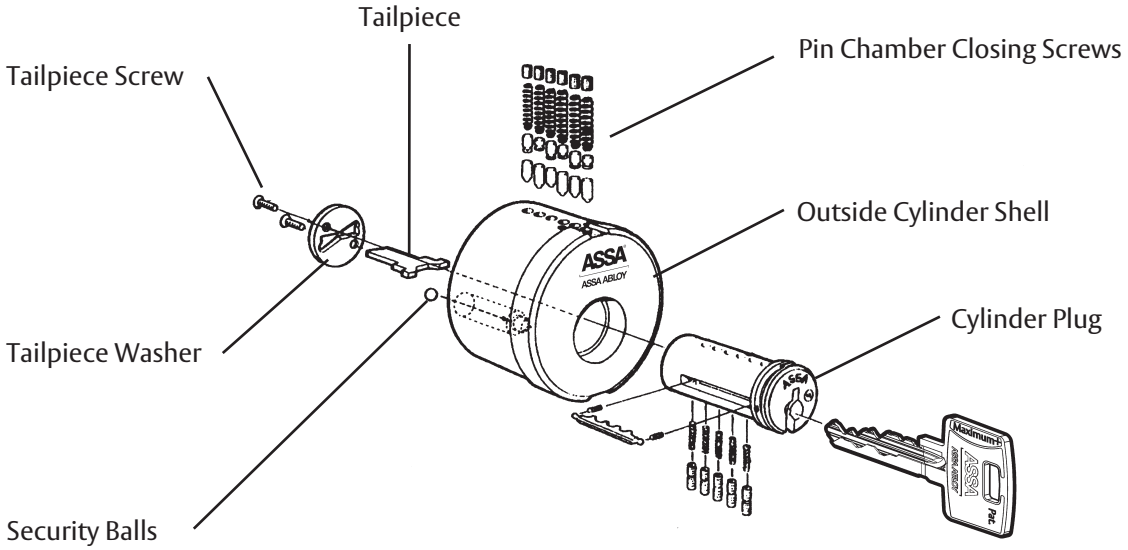
Technical Information:

- Cylinder shell and plug made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

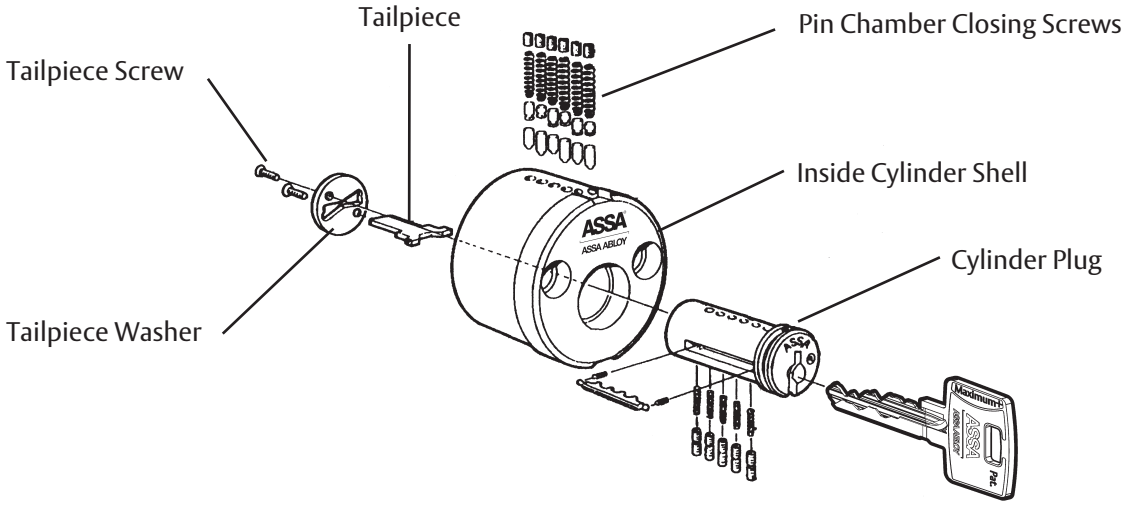
Finishes:

BHMA Symbol	U.S. Symbol	Description
625	US 26	Bright Chrome
626	US 26D	Satin Chrome
605	US 3	Bright Brass
606	US 4	Satin Brass
609	US 5	Antique Brass
612	US 10	Satin Bronze
624	US 10B	Dark Oxidized Bronze

Outside Cylinder



Inside Cylinder



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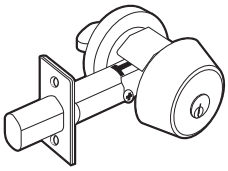
6000 Series Deadbolt



6000 Series Grade 1 Deadbolt Locks

Model#	Notes	Description	Comp	Sub	SNS
Maximum +					
9800		Single cylinder w/thumbturn	409.25	395.50	381.25
9800DC		Double cylinder	573.75	560.00	541.25
9800NT		Single cylinder no thumbturn	399.75	392.00	378.75
Twin Maximum					
8800	CLIQ	Single cylinder w/thumbturn	429.25	415.25	401.50
8800DC	CLIQ	Double cylinder	602.25	588.25	569.00
8800NT	CLIQ	Single cylinder no thumbturn	419.75	412.00	398.25
Twin Exclusive					
E6000		Single cylinder w/thumbturn	429.25	415.25	401.50
E6000DC		Double cylinder	602.25	588.25	569.00
E6000NT		Single cylinder no thumbturn	419.75	412.00	398.25
Twin 6000 Classic					
6000		Single cylinder w/thumbturn	429.25	415.25	401.50
6000DC		Double cylinder	602.25	588.25	569.00
6000NT		Single cylinder no thumbturn	419.75	412.00	398.25
Twin V-10					
V6000		Single cylinder w/thumbturn	429.25	415.25	401.50
V6000DC		Double cylinder	602.25	588.25	569.00
V6000NT		Single cylinder no thumbturn	419.75	412.00	398.25
Twin Pro					
6100		Single cylinder w/thumbturn	429.25	415.25	401.50
6100DC		Double cylinder	602.25	588.25	569.00
6100NT		Single cylinder no thumbturn	419.75	412.00	398.25

600 Series Grade 1 Deadbolt Locks

Model#	Notes	Description	Comp	Sub	SNS
600 Series Classic					
600		Single cylinder w/thumbturn	489.75	476.00	—
600DC		Double cylinder	649.50	621.00	—
600NT		Single cylinder no thumbturn	382.25	368.25	—
600LB		Single cylinder less bolt	276.00	260.25	—
600DCLB		Double cylinder less bolt	434.75	406.00	—

How To Order ASSA Deadbolts:

Example:	Model #	Finish	Backset	Bolt Type	Security Form	Keyway
	9800	605	#3 – 2-3/4" Backset or #8 – 2-3/8" Backset	F – Face Plate or D – Drive-In	Sub	0A7-200

Contact Customer Service Department for Keyway Numbers.

For extra thick doors of 2" – 2-1/2", please suffix model numbers with -ET.

Example: 9800-ET | 605 | 2-3/8" backset | F | Sub | 0A7-200

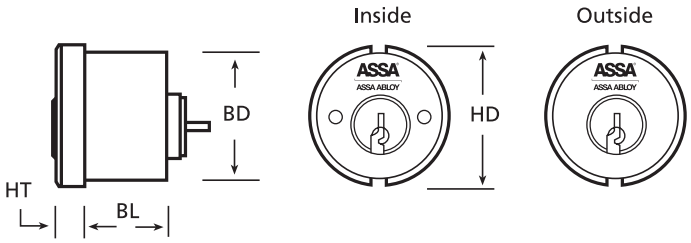
CLIQ – Twin Maximum available with either CLIQ™ Remote or C4 CLIQ™ Technology, add $889.00. Example: 8800 x **CLIQ** x 626 x Sidebar x Comp

6000 Series Grade 1 Deadbolt Locks Interchangeable Core

Model#	Notes	Description	Comp	Sub	SNS
Maximum +					
9800IC		Single cylinder IC	668.50	656.25	638.50
9800DCIC		Double cylinder IC	770.00	743.25	722.25
Twin Maximum					
8800IC	CLIQ	Single cylinder IC	689.75	677.25	659.50
8800DCIC	CLIQ	Double cylinder IC	805.75	779.25	759.75
Twin Exclusive					
E6000IC		Single cylinder IC	728.25	715.25	697.50
E6000DCIC		Double cylinder IC	838.00	812.75	792.00
Twin 6000 Classic					
6000IC		Single cylinder IC	728.25	715.25	697.50
6000DCIC		Double cylinder IC	838.00	812.75	792.00
Twin V-10					
V6000IC		Single cylinder IC	728.25	715.25	697.50
V6000DCIC		Double cylinder IC	838.00	812.75	792.00
Twin Pro					
6100IC		Single cylinder IC	728.25	715.25	697.50
6100DCIC		Double cylinder IC	838.00	812.75	792.00
6000 Series Grade 1 Deadbolt Locks Interchangeable Core Less Core					
6000ICLC		Single cylinder IC (Less Core)	561.00	–	–
6000DCICLC		Double cylinder IC (Less Core)	671.00	–	–

For extra thick doors of 2" – 2-1/2", please suffix model numbers with -ET.
Example:..... 9800-ET.....605..... 2-3/8" backset .....F..... Sub..... 0A7-200

CLIQ – Twin Maximum available with either CLIQ™ Remote or C4 CLIQ™ Technology, add $889.00. Example: 8800IC x **CLIQ** x 626 x Sidebar x Comp



6000 Series Deadbolt Cylinders Only

Model#	Notes	Description	HT	BL	BD	HD	Comp	Sub	SNS
Maximum +									
9881		Outside cylinder	0.323	0.920	1.440	1.572	308.75	296.50	278.25
9882		Inside cylinder					308.75	296.50	278.25
9883		Inside & Outside cylinder					612.25	586.50	557.00
9881IC		Outside IC cylinder					494.25	481.25	463.50
9882IC		Inside IC cylinder					494.25	481.25	463.50
9883IC		Inside & Outside IC cylinder					1,003.00	978.25	947.75
Twin Maximum									
8881	CLIQ	Outside cylinder	0.323	0.920	1.440	1.572	330.25	317.00	299.25
8882	CLIQ	Inside cylinder					330.25	317.00	299.25
8883	CLIQ	Inside & Outside cylinder					654.00	629.00	601.00
8881IC	CLIQ	Outside IC cylinder					527.50	515.00	497.00
8882IC	CLIQ	Inside IC cylinder					527.50	515.00	497.00
8883IC	CLIQ	Inside & Outside IC cylinder					1,070.25	1,046.00	1,015.50

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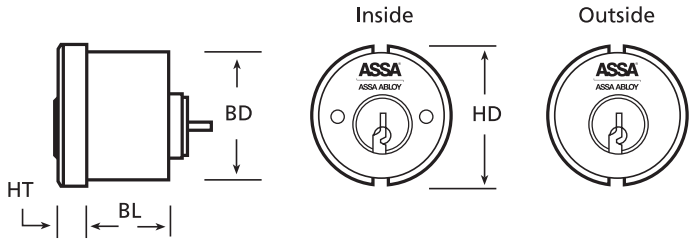
Email: sales@atsilock.com



6000 Series Deadbolt Cylinders Only

Model#	Notes	Description	HT	BL	BD	HD	Comp	Sub	SNS
Twin Exclusive									
E65811		Outside cylinder	0.323	0.920	1.440	1.572	342.75	330.25	312.25
E65812		Inside cylinder					342.75	330.25	312.25
E65813		Inside & Outside cylinder					680.75	655.00	625.25
E65811IC		Outside IC cylinder					547.75	535.50	517.50
E65812IC		Inside IC cylinder					547.75	535.50	517.50
E65813IC		Inside & Outside IC cylinder					1,113.00	1,088.75	1,057.75
Twin 6000 Classic									
65811		Outside cylinder	0.323	0.920	1.440	1.572	342.75	330.25	312.25
65812		Inside cylinder					342.75	330.25	312.25
65813		Inside & Outside cylinder					680.75	655.00	625.25
65811IC		Outside IC cylinder					547.75	535.50	517.50
65812IC		Inside IC cylinder					547.75	535.50	517.50
65813IC		Inside & Outside IC cylinder					1,113.00	1,088.75	1,057.75
Twin V-10									
V65811		Outside cylinder	0.323	0.920	1.440	1.572	342.75	330.25	312.25
V65812		Inside cylinder					342.75	330.25	312.25
V65813		Inside & Outside cylinder					680.75	655.00	625.25
V65811IC		Outside IC cylinder					547.75	535.50	517.50
V65812IC		Inside IC cylinder					547.75	535.50	517.50
V65813IC		Inside & Outside IC cylinder					1,113.00	1,088.75	1,057.75
Twin Pro									
6181		Outside cylinder	0.323	0.920	1.440	1.572	342.75	330.25	312.25
6182		Inside cylinder					342.75	330.25	312.25
6183		Inside & Outside cylinder					680.75	655.00	625.25
6181IC		Outside IC cylinder					547.75	535.50	517.50
6182IC		Inside IC cylinder					547.75	535.50	517.50
6183IC		Inside & Outside IC cylinder					1,113.00	1,088.75	1,057.75
Interchangeable Core Cylinder Less Core									
65811ICLC		Outside cylinder (Less Core)	0.323	0.920	1.440	1.572	262.00	–	–
65812ICLC		Inside cylinder (Less Core)					262.00	–	–
65813ICLC		Inside & Outside cylinder (Less Core)					571.50	–	–

For extra thick doors of 2" – 2-1/2", please suffix model numbers with -ET.
Example:..... 9881-ET..... 605..... 2-3/8" backset .....F..... Sub..... 0A7-200

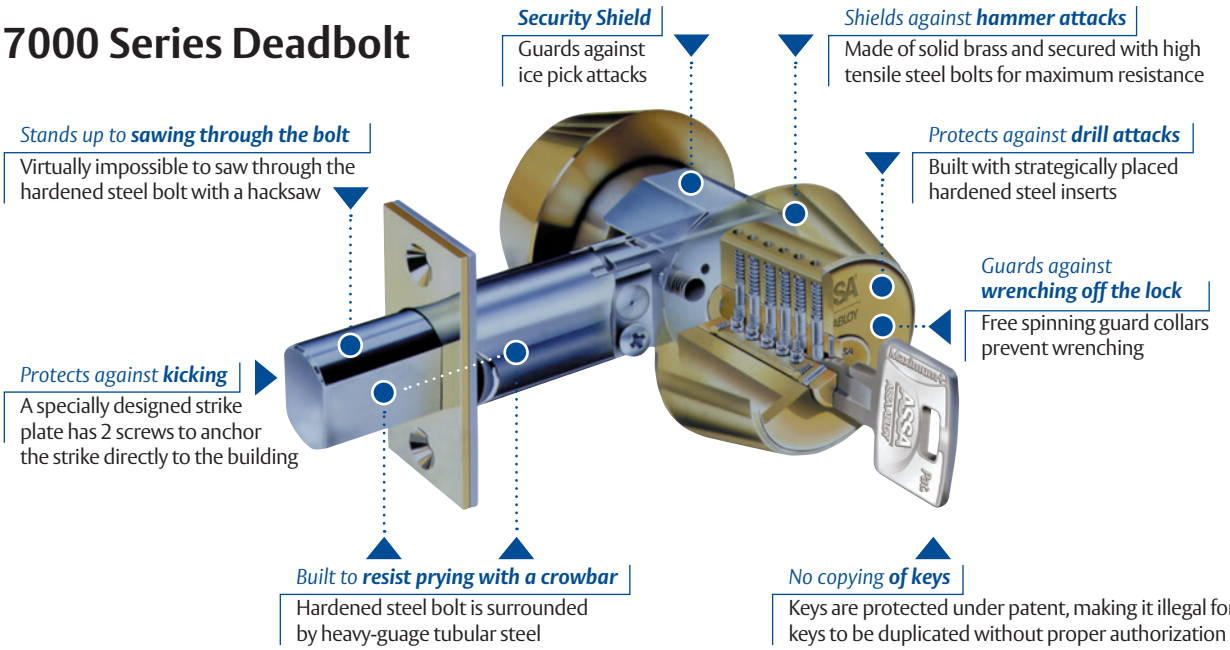
CLIQ – Twin Maximum available with either CLIQ™ Remote or C4 CLIQ™ Technology, add $889.00. Example: 8881 x **CLIQ** x 626 x Sidebar x Comp

600 Series Deadbolt Cylinders Only

Model#	Notes	Description	Comp	Sub	SNS
600 Series Classic					
6811		Outside cylinder	275.00	259.25	—
6812		Inside cylinder	275.00	259.25	—
6813		Inside & Outside cylinder	541.75	509.25	—

For extra thick doors of 2" – 2-1/2", please suffix model numbers with -ET.
Example:..... 9881-ET..... 605..... 2-3/8" backset .....F..... Sub..... 0A7-200

7000 Series Deadbolt



The ASSA 7000 Series deadbolt is designed to withstand any form of physical attack including drilling, prying, driving, or pulling. Its free spinning guard collars protect it from pipe wrenching while its hardened inserts guard against drilling. The 7000 comes equipped with the ASSA Security Guard to protect it from outside through-the-door attacks known as "ice picking." All ASSA High Security products feature our unique dual locking mechanism rendering them virtually pick proof.

Benefits:

- ASSA Hardhat™ to prevent physical attack
- Free spinning guard collars to prevent wrenching
- High security solid brass cylinders
- 1/4" Aircraft strength steel mounting bolts
- Hardened bolt with full 1" throw
- Non-handed

Warranty:

- ASSA warrants its cylinders and deadbolts against defective workmanship or wear resulting from defects for one year

Certification:

- All ASSA 7000 Deadbolts are U.L. 437 Listed
- All ASSA 7000 Deadbolts are Fire Listed R38765

Technical Information:

- Cylinder shell and plug made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

Finishes:

BHMA Symbol	U.S. Symbol	Description
625	US 26	Bright Chrome
626	US 26D	Satin Chrome
605	US 3	Bright Brass
606	US 4	Satin Brass
609	US 5	Antique Brass
612	US 10	Satin Bronze
624	US 10B	Dark Oxidized Bronze

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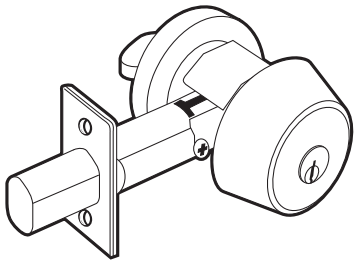
7000 Series
Deadbolt



7000 Series Grade 1 Deadbolt Locks

Model#	Notes	Description	Comp	Sub	SNS
Maximum +					
7900		Single cylinder deadbolt	347.00	327.00	322.00
7900DC		Double cylinder deadbolt	489.00	469.00	464.00
7900CL		Classroom deadbolt	356.00	336.00	331.00
7900NT		Single cylinder deadbolt no thumbturn	339.00	319.00	314.00
Twin Maximum					
7800	CLIQ	Single cylinder deadbolt	369.00	349.00	344.00
7800DC	CLIQ	Double cylinder deadbolt	522.00	502.00	497.00
7800CL	CLIQ	Classroom deadbolt	378.00	358.00	353.00
7800NT	CLIQ	Single cylinder deadbolt no thumbturn	362.00	342.00	337.00
Twin Exclusive					
E7900		Single cylinder deadbolt	369.00	349.00	344.00
E7900DC		Double cylinder deadbolt	522.00	502.00	497.00
E7900CL		Classroom deadbolt	378.00	358.00	353.00
E7900NT		Single cylinder deadbolt no thumbturn	362.00	342.00	337.00
Twin 6000 Classic					
7000		Single cylinder deadbolt	369.00	349.00	344.00
7000DC		Double cylinder deadbolt	522.00	502.00	497.00
7000CL		Classroom deadbolt	378.00	358.00	353.00
7000NT		Single cylinder deadbolt no thumbturn	362.00	342.00	337.00
Twin V-10					
V7900		Single cylinder deadbolt	369.00	349.00	344.00
V7900DC		Double cylinder deadbolt	522.00	502.00	497.00
V7900CL		Classroom deadbolt	378.00	358.00	353.00
V7900NT		Single cylinder deadbolt no thumbturn	362.00	342.00	337.00
Twin Pro					
7100		Single cylinder deadbolt	369.00	349.00	344.00
7100DC		Double cylinder deadbolt	522.00	502.00	497.00
7100CL		Classroom deadbolt	378.00	358.00	353.00
7100NT		Single cylinder deadbolt no thumbturn	362.00	342.00	337.00

How To Order ASSA 7000 Series Deadbolts:

Example:	Model #	Finish	Backset	Bolt Type	Security Form	Keyway
	7900	605	#3 – 2-3/4" Backset or #8 – 2-3/8" Backset	F – Face Plate or D – Drive-In	Sub	0A7-200

Contact Customer Service Department for Keyway Numbers.

CLIQ – Twin Maximum available with either CLIQ™ Remote or C4 CLIQ™ Technology, add $889.00. Example: 7800 x **CLIQ** x 626 x Sidebar x Comp

7000 Series Deadbolt Parts

Model#	Description	Price
13-88965D *	Outside Shell, ASSA DB	103.00
13-88800D	Inside Shell, ASSA DB	89.40
353969 *	Twin V-10 Cylinder Plug	79.20
356071 *	Twin Exclusive Cylinder Plug	79.20
806974	Closing Rod	2.55
816068 *†	Maximum+ / Twin Maximum / Twin Pro Cylinder Plug	103.00
867046	Tailpiece Washer DBOLT/PDLK	9.48
867090	Phillips Screw for Cams, Mortise & Deadbolt Tailpiece – Sold in packs of 100	91.00/pk
900700	2-3/4" Bolt, Drive-In	110.00
900701	2-3/8" Bolt, Drive-In	110.00
900702 *	2-3/4" Bolt, Faceplate	110.00
900703 *	2-3/8" Bolt, Faceplate	110.00
900704	Single Screwpack (Also used with Classroom and No Thumbturn)	26.90
900705	Double Screwpack	26.90
900750 *	Thumbturn Trim Plate Package	12.40
900751 *	Inside Assembly with Thumbturn	130.00
900752	Thumbturn Trim Package Single Cylinder	16.80
900754 *	Double Cylinder Trim Plate Package	14.50
900755 *	Single and Double Cylinder Strike Plate Screw Package	24.50
900757	Strike Reinforcement, Steel Box	6.86
900758	Plastic Dust Cup, Deadbolt	5.61
900759	Strike Reinforcement, Flat Steel	5.61
900760	Security Sleeve	38.20
900761	Security Ring	4.39
900762	DB Drill Protection Pin	3.85
900763 *	#8 X 3/4 Combination WD/Machine Screw	1.09
900764 *	Thumbturn	75.30
900766	Round Front Drive-In Assembly	55.80
900767 *	Strike Plate	15.50
900768 *	Collar, 6 Pin ASSA DB	96.60
900769 *	Spacer Rings for 1 3/8" Door for 7000 Series Deadbolt (Package of 2)	60.00
900770	Thumbturn Retaining Ring	2.40
900771	#8-32 X 3/8 Thumbturn Set Screw	1.09
900772	Thumbturn Tailpiece, Extended, DB	10.70
900773	Thumbturn Spring	1.62
900774	Spindle Retaining Ring	0.90
900775	Thumbturn Spindle, Zinc, DB	6.24
900776	7000 Break Off Tailpiece (For Doors up to 2 1/2" Thick)	10.70
900778	.191 Dia. Ball	0.40
900779	.202 Dia. Ball	0.40

* - Indicates Finished Components
† – Specify Profile 0A7 for Maximum+ or 0M7 for Twin Maximum 0P4 for Twin Pro.

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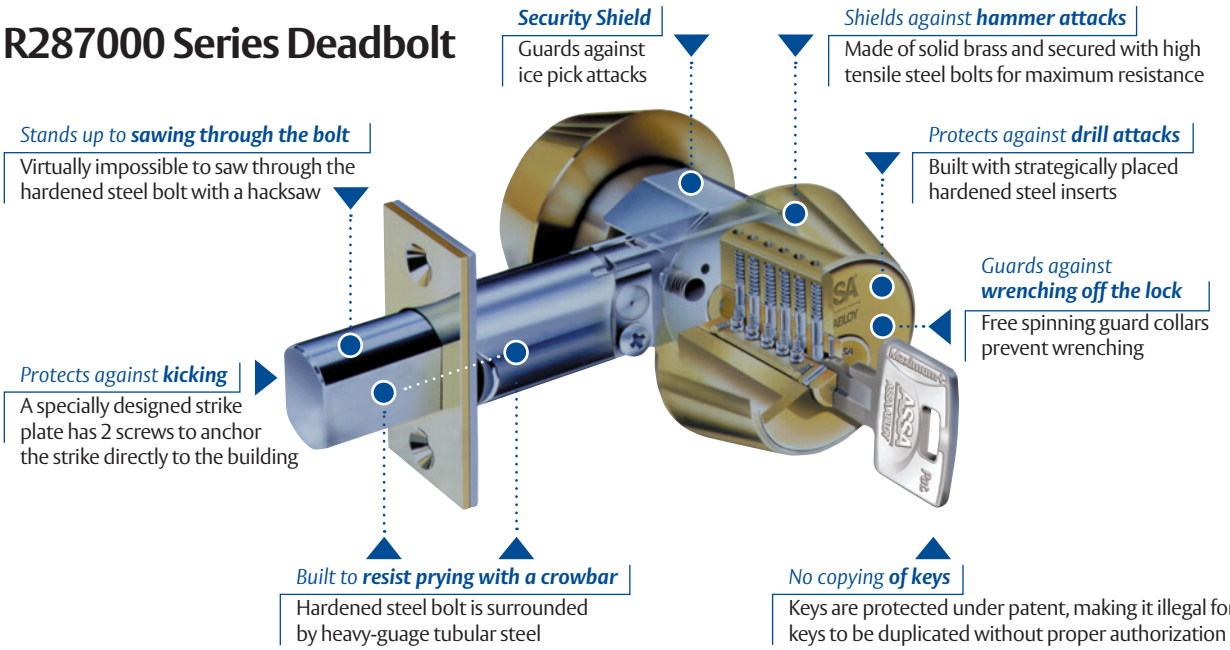
R287000 Series Deadbolt



The ATSI R28700 Series deadbolt is designed to withstand any form of physical attack including drilling, prying, driving, or pulling. Its free spinning guard collars protect it from pipe wrenching while its hardened inserts guard against drilling. The R28700 comes equipped with the ASSA Security Guard to protect it from outside through-the-door attacks known as “ice picking.” All ASSA Restricted products feature our unique dual locking mechanism rendering them virtually pick proof.

Benefits:

- ASSA Hardhat™ to prevent physical attack
- Free spinning guard collars to prevent wrenching
- High security solid brass cylinders
- 1/4" Aircraft strength steel mounting bolts
- Hardened bolt with full 1" throw
- Non-handed

Warranty:

- ASSA warrants its cylinders against defective workmanship or wear resulting from defects for one year
- All ATSI R28700 Deadbolts are Fire Listed ULF

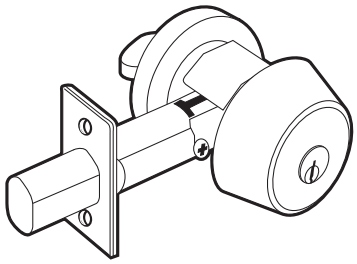
Technical Information:

- Cylinder shell and plug made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

Finishes:

BHMA Symbol	U.S. Symbol	Description
625	US 26	Bright Chrome
626	US 26D	Satin Chrome
605	US 3	Bright Brass
606	US 4	Satin Brass
609	US 5	Antique Brass
612	US 10	Satin Bronze
624	US 10B	Dark Oxidized Bronze

R287000 Series
Deadbolt



R287000 Series Grade 2 Deadbolt Locks

Model#	Notes	Description	Comp	Sub	SNS
Maximum +					
R28700		Single cylinder deadbolt	199.50	180.10	—
R28700DC		Double cylinder deadbolt	315.50	285.50	—

How To Order R287000 Series Deadbolts:

Example:	Model #	Finish	Backset	Bolt Type	Security Form	Keyway
	R28700	605	#3 – 2-3/4" Backset or #8 – 2-3/8" Backset	F – Face Plate	Sub	0A7-200

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M90 Series Grade 2 Deadbolt Locks

Benefits:

- Security Shield - Guards against ice pick attacks
- Can be keyed alike or master-keyed with other ASSA High Security products
- Deadbolt: UL fire rated
- Door thickness: 1-3/8" (35mm) to 1-3/4" (45mm)
- Available as single cylinder (with thumbturn) or double cylinder
- Adjustable 2-3/8" (60mm) or 2-3/4" (70mm) backset
- Steel hardened bolt pin
- Steel core rosette
- Only available in 626 finish

M90 Series Deadbolt

ASSA M90 Deadbolt - ANSI/BHMA A156.5 Grade 2 & UL 3 hours fire rating certified Commercial Deadbolt Design for commercial building with Heavy Traffic Applications:

- High abuse areas
- High traffic areas
- Multi family housing
- Retail complexes

Model#	Notes	Description	Comp	Sub	SNS
Maximum +					
98M9010		Single cylinder w/thumbturn	272.50	262.00	246.75
98M9020DC		Double cylinder	424.25	404.00	379.00
Maximum + Restricted					
R28M9010		Single cylinder w/thumbturn	174.00	163.75	—
R28M9020DC		Double cylinder	207.25	186.75	—
Twin Maximum					
88M9010	CLIQ	Single cylinder w/thumbturn	292.50	282.50	267.00
88M9020DC	CLIQ	Double cylinder	456.25	436.00	410.75
Twin Exclusive					
EM9010		Single cylinder w/thumbturn	304.50	294.00	278.50
EM9020DC		Double cylinder	473.75	453.25	428.25
Twin 6000 Classic					
M9010		Single cylinder w/thumbturn	304.50	294.00	278.50
M9020DC		Double cylinder	473.75	453.25	428.25
Twin V-10					
VM9010		Single cylinder w/thumbturn	304.50	294.00	278.50
VM9020DC		Double cylinder	473.75	453.25	428.25
Twin Pro					
61M9010		Single cylinder w/thumbturn	304.50	294.00	278.50
61M9020DC		Double cylinder	473.75	453.25	428.25
SFIC					
M9010-SFIC		Single cylinder w/thumbturn, less cylinder	281.25	—	—
M9020DC-SFIC		Double cylinder, less cylinder	372.25	—	—
KIK-Schlage-C					
M9010-KIK		Single cylinder w/thumbturn, less cylinder	171.00	—	—
M9020DC-KIK		Double cylinder, less cylinder	198.75	—	—

CLIQ – Twin Maximum available with either CLIQ™ Remote or CLIQ™ Technology, add $889.00.
Example: 8881-1 x **CLIQ** x 626 x Sidebar x Comp

Auxiliary Locks

ASSA's auxiliary lock line brings the same level of key control and durability to cam locks, window locks, drawer and desk locks are standard for all of our high security products. All of our auxiliary locks are operated by the same 6 pin uniquely side coded keys as the rest of our high security line eliminating the need for maintaining separate key systems.

Benefits:

- All locks operated by same high security key
- Unlimited number of applications
- Two independent locking mechanisms to ensure security and optimum pick resistance
- Inactive "false" gates in side pins designed to increase pick resistance
- Can be easily rekeyed in the field

Technical Information:

- Cylinder housing and plug made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

Warranty:

- ASSA warrants its cylinders against defective workmanship or wear resulting from defects for one year

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Email: sales@atsilock.com

ASSA manufactures the most rugged high security cam locks on the market today. The sturdy design makes it perfect for inner safe doors and compartments, cash storage containers, drug carts, gun cabinets, alarm control panels, and key storage cabinets. ASSA cam locks are operated with the same ASSA 6 pin high security key as the rest of our product offering and are available in both key retaining and non-key retaining models.

Benefits:

- Operated by 6 pin high security key
- Available in key retaining and non-key retaining
- 31 different catches available
- Two independent locking mechanisms to ensure security and optimum pick resistance
- Inactive "false" gates in side pins designed to increase pick resistance

Technical Information:

- Installation prep 22 mm, 7/8" Double "D" (punch available from ASSA)
- Uses stainless steel hollow interchangeable core drivers
- Body and plug chromium plated brass
- Bottom pins and master pins are nickel silver

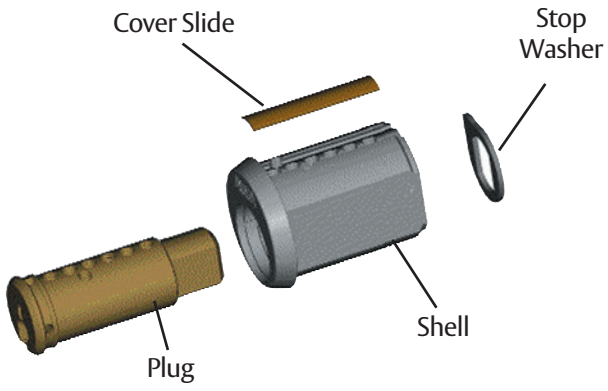
Warranty:

- ASSA warrants its cylinders against defective workmanship or wear resulting from defects for one year

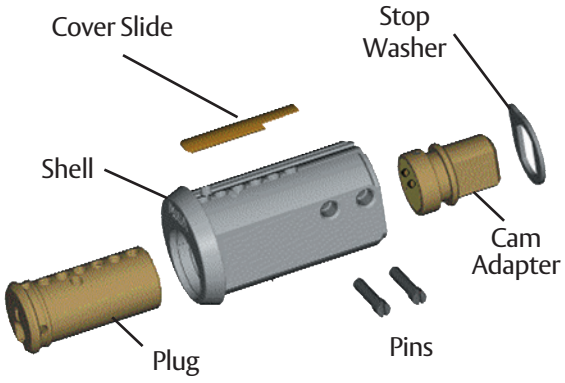
Finishes:

BHMA Symbol	U.S. Symbol	Description
625	US 26	Bright Chrome

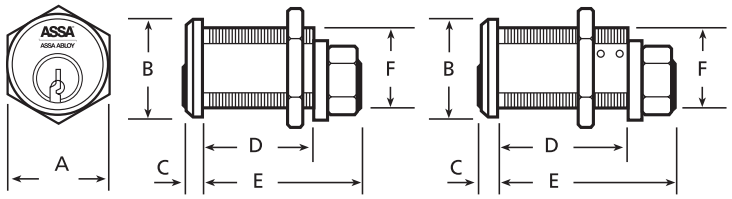
Cam Locks Exploded View



Key Retained



Non-Key Retained



Model#	Notes	Description	A	B	C	D	E	F	Comp	Sub	SNS
Maximum +											
9871		Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860	157.00	137.00	132.00
9872		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860	157.00	137.00	132.00
Maximum + Restricted											
R2871		Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860	118.00	98.00	—
R2872		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860	118.00	98.00	—
Twin Maximum											
8871	CLIQ	Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860	175.00	155.00	150.00
8872		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860	175.00	155.00	150.00
Twin Exclusive											
E6571		Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860	175.00	155.00	150.00
E7571		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860	175.00	155.00	150.00
Twin 6000 Classic											
6571		Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860	175.00	155.00	150.00
7571		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860	175.00	155.00	150.00
Twin V-10											
V6571		Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860	175.00	155.00	150.00
V7571		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860	175.00	155.00	150.00
Twin Pro											
6171		Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860	175.00	155.00	150.00
7171		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860	175.00	155.00	150.00

CLIQ – Twin Maximum available with CLIQ™ Technology. Example: 8871 x **CLIQ** x 626 x Sidebar x Comp

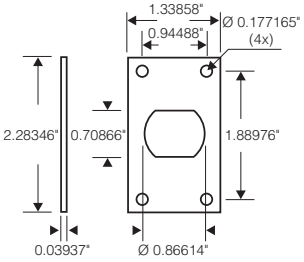
How To Order ASSA Auxiliary Locks:

Example:	Model #	Security Form	Keyway
	9871	Sub	0A7-200

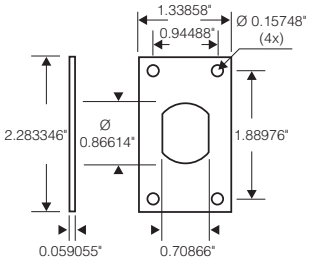
Contact Customer Service Department for Keyway Numbers.

ATSI Lock Supply
6174 State Route 88, Finleyville, PA 15332
Office: 724-969-2595
Cell/Text: 703-283-6192
Fax: 413-677-7814
Email: sales@atsilock.com

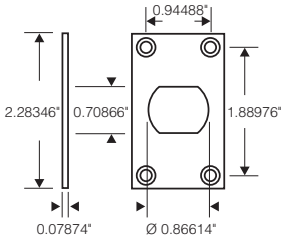
Cam Locks Accessories



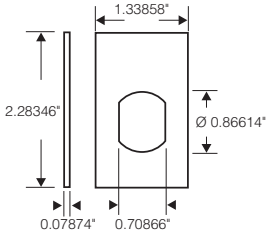
Fixing Plate 490825



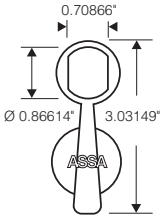
Fixing Plate 491449



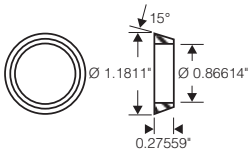
Front Plate 490821



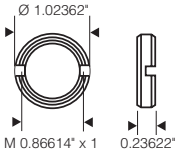
Front Plate 491450



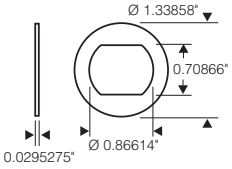
Dust Cap 391053



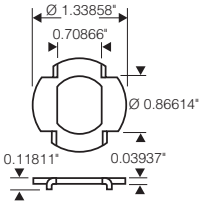
Cylinder Ring 490271



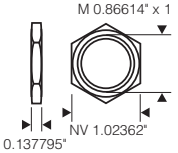
Housing Washer 490663



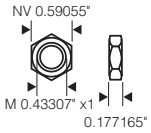
Front Plate 490657



Nail Plate 491299



Housing Nut 490610



Nut
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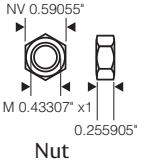

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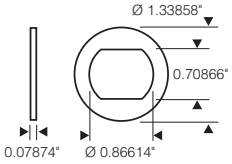
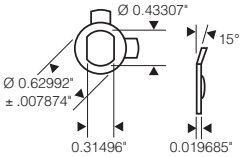


Front Plate 497008

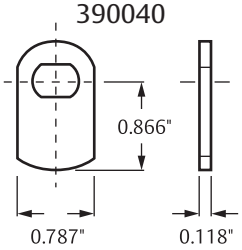


Lock Washer 490246

Model#	Description	Price
See catalog pages 55-56 for product number	Cam Lock Catches	4.81
CLK-1	Cam Lock Catch Kit (Includes 2 ea. of 31 Cam Catches)	253.00
CLP-D	7/8" Double D Cam Lock/Switch Lock Punch	1,025.00
490271	Cam Lock cylinder ring	20.70
391053	Cam Lock dust cap	12.80
490825	Cam Lock fixing plate	8.01
491449	Cam Lock fixing plate	8.01
497008	Cam Lock front plate	11.20
490657	Cam Lock front plate	11.20
490821	Cam Lock front plate	11.20
491450	Cam Lock front plate	11.20
490246	Cam Lock washer	3.19
491299	Cam Lock nail plate	4.81
490583	Cam Lock nut	4.81
491439	Cam Lock nut (m11x1)	4.81
490610	Cam Lock housing nut (m22x1)	8.01
490663	Cam Lock housing washer	11.20
492069	Cam Lock turn stop washer	11.20

Cam Lock Catches

390040



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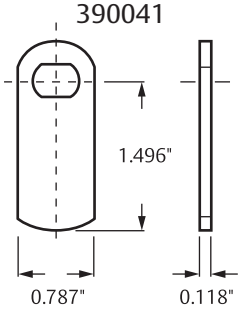

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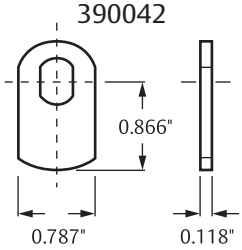

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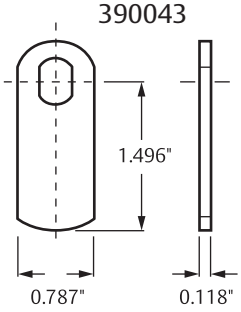

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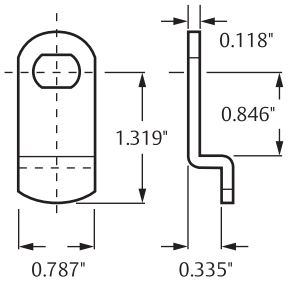

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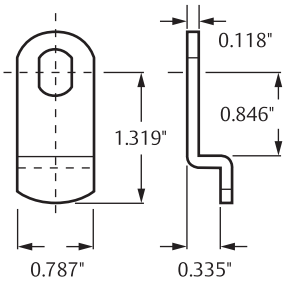

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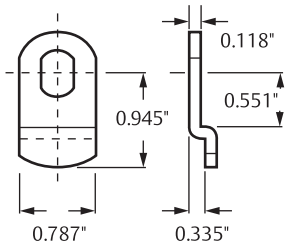

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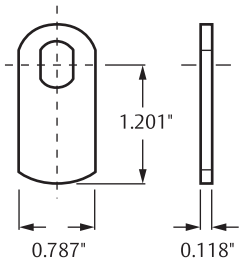

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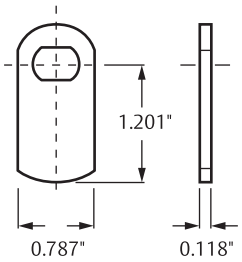

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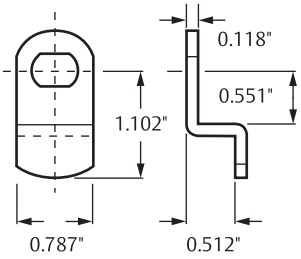

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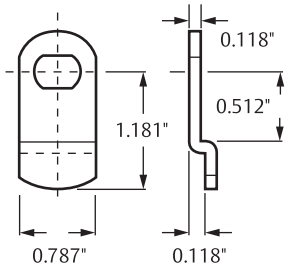

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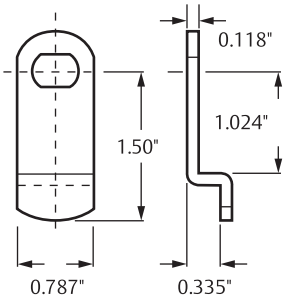

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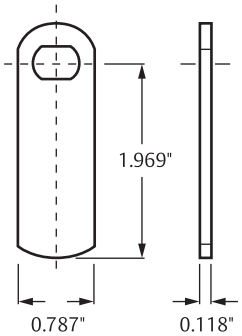

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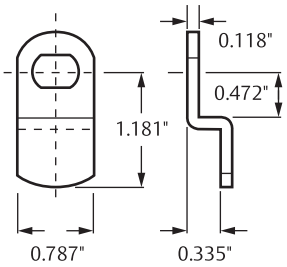

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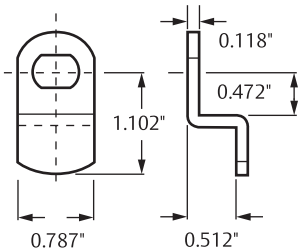

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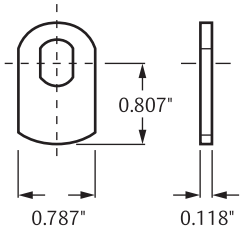

ATSI Lock Supply
6174 State Route 88, Finleyville, PA 15332
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Cell/Text: 703-283-6192
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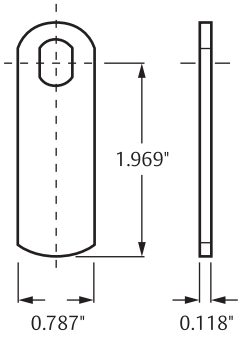
Cam Lock Catches

490827



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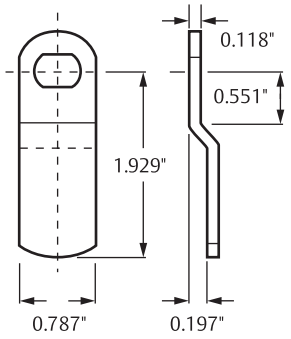

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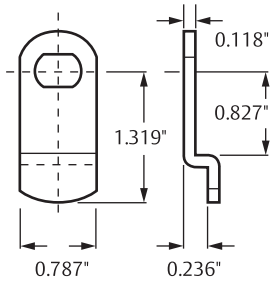

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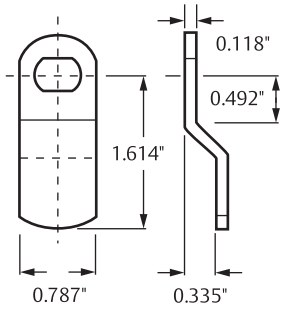

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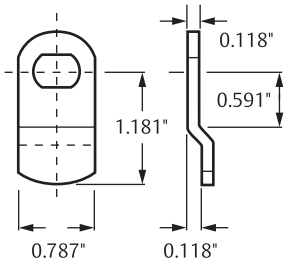

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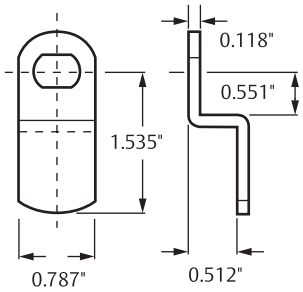

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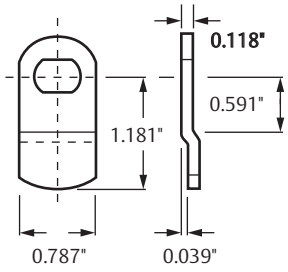

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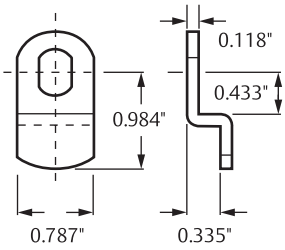

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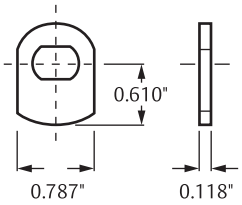

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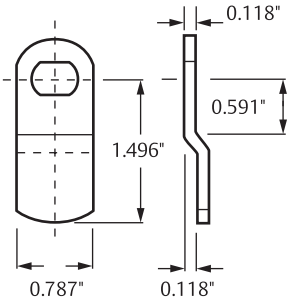

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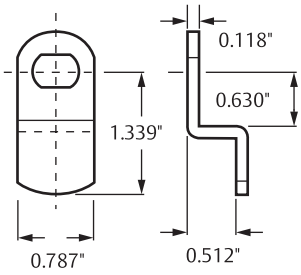

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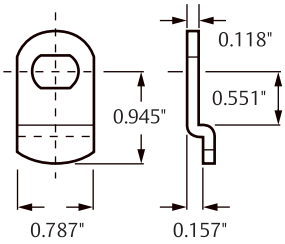

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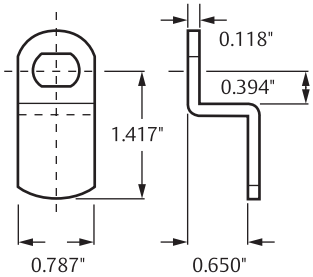

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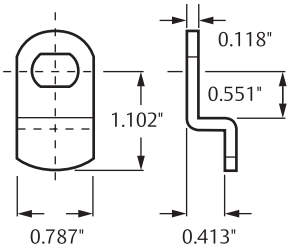

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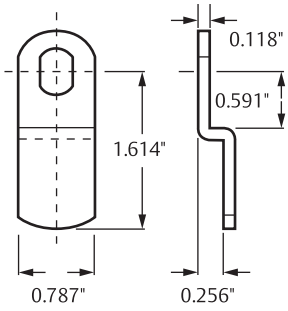
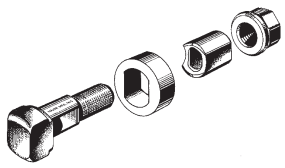


CLP-D



ASSA Utility Locks are used to secure sliding glass or wood doors, storage cabinets, and windows. They can be keyed into any ASSA key system or used as a stand alone locking device. The body is finished with baked on white enamel. This assembly locks with just one push of your thumb or finger, as easy as locking a file cabinet. The Utility Lock comes with all of its own mounting hardware for standard wood frame applications and shims for uneven surfaces.

Benefits:

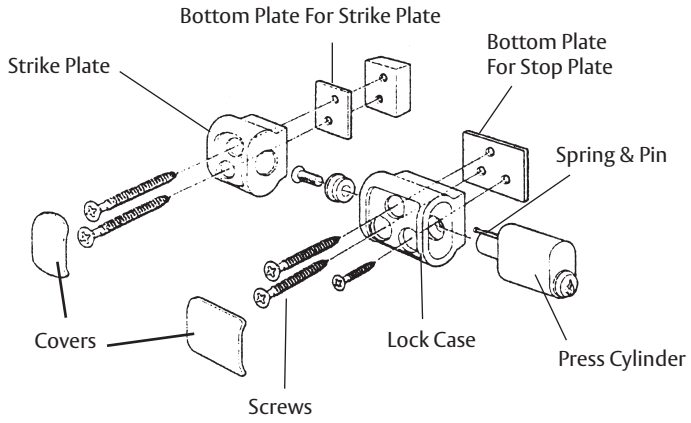
- 6 pin high security cylinder
- Two independent locking mechanisms to ensure security and optimum pick resistance
- Inactive "false" gates in side pins designed to increase pick resistance

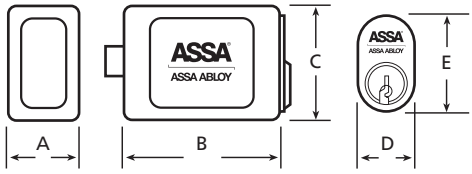
Technical Information:

- Cast aluminum housing
- Cast aluminum rim and mortise strike
- Cylinder body and plug high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

Warranty:

- ASSA warrants its cylinders against defective workmanship or wear resulting from defects for one year





Model#	Notes	Description	A	B	C	D	E	Comp	Sub	SNS
Maximum +										
9880		Utility Lock	0.868	1.472	1.345	0.670	1.115	197.50	184.50	167.50
Twin Maximum										
8880		Utility Lock	0.868	1.472	1.345	0.670	1.115	206.25	193.25	176.75
Twin Exclusive										
E7680		Utility Lock	0.868	1.472	1.345	0.670	1.115	214.25	201.50	185.00
Twin 6000 Classic										
7680		Utility Lock	0.868	1.472	1.345	0.670	1.115	214.25	201.50	185.00
Twin V-10										
V7680		Utility Lock	0.868	1.472	1.345	0.670	1.115	214.25	201.50	185.00
Twin Pro										
6180		Utility Lock	0.868	1.472	1.345	0.670	1.115	214.25	201.50	185.00

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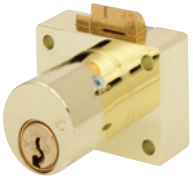
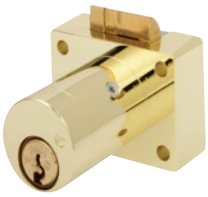
ASSA cabinet and desk locks feature our high security U.L. 437 listed cylinders. These versatile locks can be keyed into any ASSA master key system. The cylinder can be easily rekeyed by removing the set screw on the side of the cylinder housing.

1-3/8" Door Lock

1-3/8" Drawer Lock



7/8" Deadlocking Latch



1-3/8" Deadlocking Latch

Benefits:

- ASSA U.L. 437 high security cylinder
- Setscrew for easy rekeying
- Two independent locking mechanisms to ensure security and optimum pick resistance
- Inactive "false" gates in side pins designed to increase pick resistance

Technical Information:

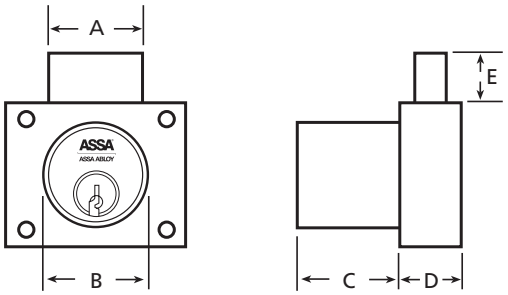
- Available with plastic spacer and strike
- Cabinet lock available with horizontal or vertical bolt and deadlatch
- Desk lock available in 7/8" and 1-3/8" mounting thickness
- Bolt material high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

Warranty:

- ASSA warrants its cylinders against defective workmanship or wear resulting from defects for one year

Finishes:

BHMA Symbol	U.S. Symbol	Description
626	US 26D	Satin Chrome
605	US 3	Bright Brass



Cabinet Locks

Model#	Notes	Description	A	B	C	D	E	Comp	Sub	SNS
Maximum +										
98700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965	205.00	185.00	180.00
98800AS-138	*	1-3/8" Drawer Lock						205.00	185.00	180.00
98850AS-078	*	7/8" Deadlocking Latch			1.185	0.635	0.320	252.00	232.00	227.00
98850AS-138	*	1-3/8" Deadlocking Latch			1.420	0.515	0.965	252.00	232.00	227.00
Maximum + Restricted										
R28700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965	109.89	89.00	–
R28800AS-138	*	1-3/8" Drawer Lock						109.89	89.00	–
R28850AS-078	*	7/8" Deadlocking Latch			1.185	0.635	0.320	154.00	134.00	–
R28850AS-138	*	1-3/8" Deadlocking Latch			1.420	0.515	0.965	157.00	137.00	–
Twin Maximum										
88700AS-138	* CLIQ	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965	207.00	187.00	182.00
88800AS-138	* CLIQ	1-3/8" Drawer Lock						207.00	187.00	182.00
88850AS-078	* CLIQ	7/8" Deadlocking Latch			1.185	0.635	0.320	256.00	236.00	231.00
88850AS-138	* CLIQ	1-3/8" Deadlocking Latch			1.420	0.515	0.965	256.00	236.00	231.00
Twin Exclusive										
E700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965	207.00	187.00	182.00
E800AS-138	*	1-3/8" Drawer Lock						207.00	187.00	182.00
E850AS-078	*	7/8" Deadlocking Latch			1.185	0.635	0.320	256.00	236.00	231.00
E850AS-138	*	1-3/8" Deadlocking Latch			1.420	0.515	0.965	256.00	236.00	231.00
Twin 6000 Classic										
700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965	207.00	187.00	182.00
800AS-138	*	1-3/8" Drawer Lock						207.00	187.00	182.00
850AS-078	*	7/8" Deadlocking Latch			1.185	0.635	0.320	256.00	236.00	231.00
850AS-138	*	1-3/8" Deadlocking Latch			1.420	0.515	0.965	256.00	236.00	231.00
Twin V-10										
V700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965	207.00	187.00	182.00
V800AS-138	*	1-3/8" Drawer Lock						207.00	187.00	182.00
V850AS-078	*	7/8" Deadlocking Latch			1.185	0.635	0.320	256.00	236.00	231.00
V850AS-138	*	1-3/8" Deadlocking Latch			1.420	0.515	0.965	256.00	236.00	231.00
Twin Pro										
61700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965	207.00	187.00	182.00
61800AS-138	*	1-3/8" Drawer Lock						207.00	187.00	182.00
61850AS-078	*	7/8" Deadlocking Latch			1.185	0.635	0.320	256.00	236.00	231.00
61850AS-138	*	1-3/8" Deadlocking Latch			1.420	0.515	0.965	256.00	236.00	231.00

CLIQ – Twin Maximum available with CLIQ™ Technology, add $889.00. Example: 88700AS-138 x **CLIQ** x 626 x Sidebar x Comp

* Indicate product finish, Cabinet locks are available in 605 & 626 only.

ATSI Lock Supply
6174 State Route 88, Finleyville, PA 15332
Office: 724-969-2595
Cell/Text: 703-283-6192
Fax: 413-677-7814
Email: sales@atsilock.com

Combining state of the art Securitron designed technology with the versatility of an ASSA non key retaining cam lock, this switch lock is fully reversible from maintained to momentary.

State, plate and LED SG option

Benefits:

- Choice of actuation (plunger as well as a variety of integral and auxiliary actuators)
- Choice of electrical termination (solder, quick connect, PCB)
- Available with standard or narrow stile mounting plate with LED

Technical Information:

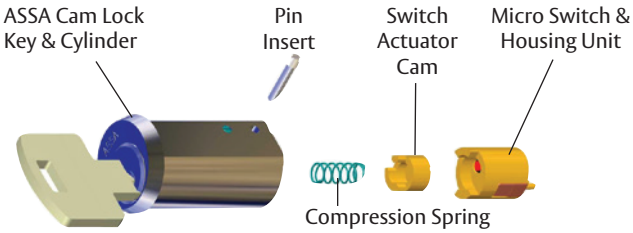
- Single pull double throw (SPDT) pin actuator and solder termination standard
- 3 amp at 12 or 24 VDC
- Uses stainless steel hollow inter-changeable core drivers
- Body and plug chromium plated brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

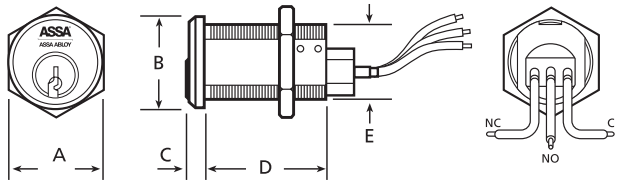
Warranty:

- ASSA warrants its cylinders against defective workmanship or wear resulting from defects for one year

Finishes:

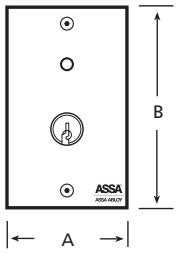
BHMA Symbol	U.S. Symbol	Description
626	US 26D	Satin Chrome





Keyswitches

Model#	Notes	Description	A	B	C	D	E	Comp	Sub	SNS
Maximum +										
9870-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860	442.00	422.00	417.00
9871-LP		Keyswitch Switch On/Off						442.00	422.00	417.00
Twin Maximum										
8870-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860	448.00	428.00	423.00
8871-LP		Keyswitch Switch On/Off						448.00	428.00	423.00
Twin Exclusive										
E7700-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860	448.00	428.00	423.00
E7771-LP		Keyswitch Switch On/Off						448.00	428.00	423.00
Twin 6000 Classic										
7700-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860	448.00	428.00	423.00
7771-LP		Keyswitch Switch On/Off						448.00	428.00	423.00
Twin V-10										
V7700-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860	448.00	428.00	423.00
V7771-LP		Keyswitch Switch On/Off						448.00	428.00	423.00
Twin Pro										
6700-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860	448.00	428.00	423.00
6771-LP		Keyswitch Switch On/Off						448.00	428.00	423.00



Single Gang Plate Narrow Stile Plate

Keyswitches with Single Gang Plate

Model#	Notes	Description	A	B	Comp	Sub	SNS
Maximum +							
9870-SG		Single Gang Plate Bi/LED Momentary	2.75	4.50	601.00	581.00	576.00
9871-SG		Single Gang Plate Bi/LED On/Off			601.00	581.00	576.00
Twin Maximum							
8870-SG		Single Gang Plate Bi/LED Momentary	2.75	4.50	609.00	589.00	584.00
8871-SG		Single Gang Plate Bi/LED On/Off			609.00	589.00	584.00
Twin Exclusive							
E7700		Single Gang Plate Bi/LED Momentary	2.75	4.50	609.00	589.00	584.00
E7771		Single Gang Plate Bi/LED On/Off			609.00	589.00	584.00
Twin 6000 Classic							
7700		Single Gang Plate Bi/LED Momentary	2.75	4.50	609.00	589.00	584.00
7771		Single Gang Plate Bi/LED On/Off			609.00	589.00	584.00
Twin V-10							
V7700		Single Gang Plate Bi/LED Momentary	2.75	4.50	609.00	589.00	584.00
V7771		Single Gang Plate Bi/LED On/Off			609.00	589.00	584.00
Twin Pro							
6700		Single Gang Plate Bi/LED Momentary	2.75	4.50	609.00	589.00	584.00
6771		Single Gang Plate Bi/LED On/Off			609.00	589.00	584.00

Keyswitches with Narrow Stile Plate

Model#	Notes	Description	A	B	Comp	Sub	SNS
Maximum +							
9870-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50	601.00	581.00	576.00
9871-N		Narrow Stile Plate Bi/LED On/Off			601.00	581.00	576.00
Twin Maximum							
8870-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50	609.00	589.00	584.00
8871-N		Narrow Stile Plate Bi/LED On/Off			609.00	589.00	584.00
Twin Exclusive							
E7700-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50	609.00	589.00	584.00
E7771-N		Narrow Stile Plate Bi/LED On/Off			609.00	589.00	584.00
Twin 6000 Classic							
7700-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50	609.00	589.00	584.00
7771-N		Narrow Stile Plate Bi/LED On/Off			609.00	589.00	584.00
Twin V-10							
V7700-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50	609.00	589.00	584.00
V7771-N		Narrow Stile Plate Bi/LED On/Off			609.00	589.00	584.00
Twin Pro							
6700-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50	609.00	589.00	584.00
6771-N		Narrow Stile Plate Bi/LED On/Off			609.00	589.00	584.00

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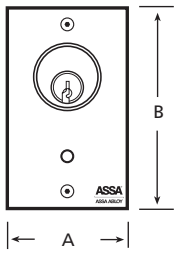
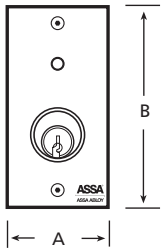


Mortise Keyswitches with Single Gang Plate

Model#	Notes	Description	A	B	Comp	Sub	SNS
Maximum +							
9851MKS	*	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50	601.00	581.00	576.00
9851MKSA	*	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch			601.00	581.00	576.00
9851MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch			601.00	581.00	576.00
9851MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch			601.00	581.00	576.00
Twin Maximum							
8851MKS	* CLIQ	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50	609.00	589.00	584.00
8851MKSA	* CLIQ	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch			609.00	589.00	584.00
8851MKS2	* CLIQ	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch			609.00	589.00	584.00
8851MKS2A	* CLIQ	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch			609.00	589.00	584.00
Twin Exclusive							
E6551MKS	*	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50	705.00	685.00	680.00
E6551MKSA	*	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch			705.00	685.00	680.00
E6551MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch			705.00	685.00	680.00
E6551MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch			705.00	685.00	680.00
Twin 6000 Classic							
6551MKS	*	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50	705.00	685.00	680.00
6551MKSA	*	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch			705.00	685.00	680.00
6551MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch			705.00	685.00	680.00
6551MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch			705.00	685.00	680.00
Twin V-10							
V6551MKS	*	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50	705.00	685.00	680.00
V6551MKSA	*	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch			705.00	685.00	680.00
V6551MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch			705.00	685.00	680.00
V6551MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch			705.00	685.00	680.00
Twin Pro							
6151MKS	*	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50	705.00	685.00	680.00
6151MKSA	*	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch			705.00	685.00	680.00
6151MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch			705.00	685.00	680.00
6151MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch			705.00	685.00	680.00

* Mortise Keyswitch assemblies can take up to two switches and are supplied with one switch. All switches are listed on page 64.

CLIQ – Twin Maximum available with CLIQ™ Technology. Example: 8851 MKS x **CLIQ** x 626 x Sidebar x Comp



Mortise Keyswitches with Narrow Stile Plate

Model#	Notes	Description	A	B	Comp	Sub	SNS
Maximum +							
9851MKS-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50	615.00	595.00	590.00
9851MKSA-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch			615.00	595.00	590.00
9851MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch			615.00	595.00	590.00
9851MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch			615.00	595.00	590.00
Twin Maximum							
8851MKS-N	* CLIQ	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50	624.00	604.00	599.00
8851MKSA-N	* CLIQ	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch			624.00	604.00	599.00
8851MKS2-N	* CLIQ	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch			624.00	604.00	599.00
8851MKS2A-N	* CLIQ	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch			624.00	604.00	599.00
Twin Exclusive							
E6551MKS-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50	705.00	685.00	680.00
E6551MKSA-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch			705.00	685.00	680.00
E6551MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch			705.00	685.00	680.00
E6551MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch			705.00	685.00	680.00
Twin 6000 Classic							
6551MKS-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50	705.00	685.00	680.00
6551MKSA-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch			705.00	685.00	680.00
6551MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch			705.00	685.00	680.00
6551MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch			705.00	685.00	680.00
Twin V-10							
V6551MKS-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50	705.00	685.00	680.00
V6551MKSA-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch			705.00	685.00	680.00
V6551MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch			705.00	685.00	680.00
V6551MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch			705.00	685.00	680.00
Twin Pro							
6151MKS-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50	705.00	685.00	680.00
6151MKSA-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch			705.00	685.00	680.00
6151MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch			705.00	685.00	680.00
6151MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch			705.00	685.00	680.00

* Mortise Keyswitch assemblies can take up to two switches and are supplied with one switch. All switches are listed on page 64.

CLIQ – Twin Maximum available with CLIQ™ Technology. Example: 8851 MKS-N x **CLIQ** x 626 x Sidebar x Comp

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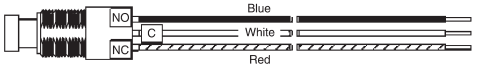
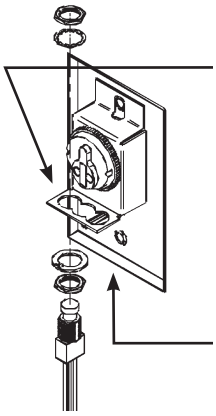
Email: sales@atsilock.com

Switch
(Momentary/Alternate)



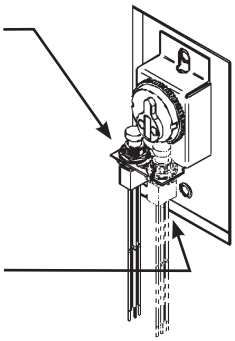
SPTD: 3-Wire (As Shown)
DPDT: 6-Wire (As Shown x 2 Pole Sets)

Switch Assembly



Switch Position
for 90° Clockwise
(3 O'Clock Activation)

Optional/Additional
Switch Position for 90°
Counter-Clockwise
(9 O'Clock Activation)
Or: 180° Individual
CW-CCW
(9 & 3 O'Clock Activation)



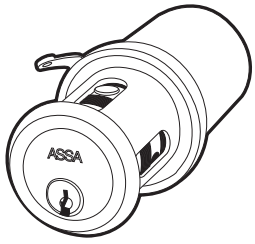
Optional Switches for Mortise Switch Plates

Model#	Description	Price
ASMKS	SPDT Momentary	144.00
ASMKSA	SPDT Alternate (ON/OFF)	144.00
ASMKS2	DPDT Momentary	227.00
ASMKS2A	DPDT Alternate (ON/OFF)	227.00

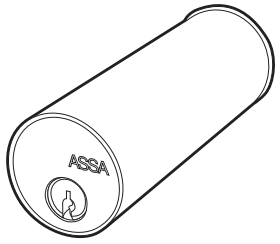
Tube Locks

High Security Key Depository

V/E656615



V/E656616



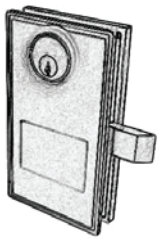
V/E656617

Tube Locks

Model#	Description	Comp	Sub	SNS
V65615	Twin V-10 Wall Tube Lock	221.00	206.00	185.75
E65615	Twin Exclusive Wall Tube Lock	221.00	206.00	185.75
V65616	Twin V-10 Wall Tube Lock	221.00	206.00	185.75
E65616	Twin Exclusive Wall Tube Lock	221.00	206.00	185.75
V65617	Twin V-10 Wall Tube Lock	221.00	206.00	185.75
E65617	Twin Exclusive Wall Tube Lock	221.00	206.00	185.75

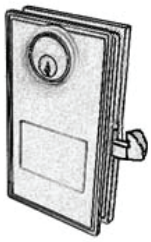
V/E/ AS-SG-100
Single Cylinder

V/E/ AS-SG-200
Double Cylinder



V/E/ AS-RG-100
Single Cylinder

V/E/ AS-RG-200
Double Cylinder



Swing Gate Locks

Model#	Description	Comp	Sub	SNS
VAS-SG-100	Twin V-10 Swing Gate Lock, Single Cylinder	241.75	227.50	206.75
EAS-SG-100	Twin Exclusive Swing Gate Lock, Single Cylinder	241.75	227.50	206.75
AS-SG-100	Twin 6000 Swing Gate Lock, Single Cylinder	241.75	227.50	206.75
VAS-SG-200	Twin V-10 Swing Gate Lock, Double Cylinder	264.25	249.00	228.50
EAS-SG-200	Twin Exclusive Swing Gate Lock, Double Cylinder	264.25	249.00	228.50
AS-SG-200	Twin 6000 Swing Gate Lock, Double Cylinder	264.25	249.00	228.50

Frame Size:	Part No.	Size	Part No.	Size
	S1	5/8"	S5	1-1/4"
	S2	3/4"	S6	1-1/2"
	S3	7/8"	S7	2"
	S4	1"	S8	2-1/2"
			S9	3"

Sliding Gate Locks

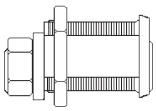
Model#	Description	Comp	Sub	SNS
VAS-RG-100	Twin V-10 Sliding Gate Lock, Single Cylinder	241.75	227.50	206.75
EAS-RG-100	Twin Exclusive Sliding Gate Lock, Single Cylinder	241.75	227.50	206.75
AS-RG-100	Twin 6000 Sliding Gate Lock, Single Cylinder	241.75	227.50	206.75
VAS-RG-200	Twin V-10 Sliding Gate Lock, Double Cylinder	264.25	249.00	228.50
EAS-RG-200	Twin Exclusive Sliding Gate Lock, Double Cylinder	264.25	249.00	228.50
AS-RG-200	Twin 6000 Sliding Gate Lock, Double Cylinder	264.25	249.00	228.50

Frame Size:	Part No.	Size
	R1	5/8"
	R2	3/4"
	R3	7/8"
	R4	1-1/4"
	R5	1-1/2"

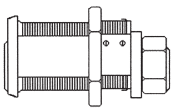
How To Order Gate Locks:

Specify	Model No.	Frame Size	Security Program	Form	Keyway
Example:	VAS-SG-100	S1	C2L	SUB	95-100

ATSI Lock Supply
6174 State Route 88, Finleyville, PA 15332
Office: 724-969-2595
Cell/Text: 703-283-6192
Fax: 413-677-7814
Email: sales@atsilock.com



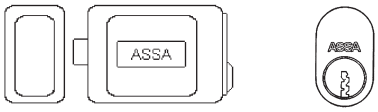
V/E/6571



V/E/7571

Cam Locks

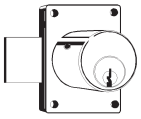
Model#	Description	Turn	Comp	Sub	SNS
V6571	Twin V-10 Key Retaining Cam Lock	90°	87.00	71.50	52.25
E6571	Twin Exclusive Key Retaining Cam Lock	90°	87.00	71.50	52.25
6571	Twin 6000 Key Retaining Cam Lock	90°	87.00	71.50	52.25
V7571	Twin V-10 Non-Key Retaining Cam Lock	360°	97.75	82.25	63.00
E7571	Twin Exclusive Non-Key Retaining Cam Lock	360°	97.75	82.25	63.00
7571	Twin 6000 Non-Key Retaining Cam Lock	360°	97.75	82.25	63.00



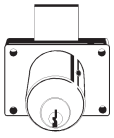
V/E/7680

Utility Locks

Model#	Description	Comp	Sub	SNS
V7680	Twin V-10 Utility Lock	108.75	93.25	74.00
E7680	Twin Exclusive Utility Lock	108.75	93.25	74.00
7680	Twin 6000 Utility Lock	108.75	93.25	74.00



V/E/700AS



V/E/800AS

V/E/850AS

Cabinet Locks

Model#	Description	Comp	Sub	SNS
V700AS-138*	Twin V-10 1-3/8" Cabinet Door Lock	148.50	134.00	114.25
E700AS-138*	Twin Exclusive 1-3/8" Cabinet Door Lock	148.50	134.00	114.25
700AS-138*	Twin 6000 1-3/8" Cabinet Door Lock	148.50	134.00	114.25
V800AS-138*	Twin V-10 1-3/8" Cabinet Drawer Lock	148.50	134.00	114.25
E800AS-138*	Twin Exclusive 1-3/8" Cabinet Drawer Lock	148.50	134.00	114.25
800AS-138*	Twin 6000 1-3/8" Cabinet Drawer Lock	148.50	134.00	114.25
V850AS-078*	Twin V-10 7/8" Cabinet Deadlocking Latch	179.00	164.50	144.75
E850AS-078*	Twin Exclusive 7/8" Cabinet Deadlocking Latch	179.00	164.50	144.75
850AS-078*	Twin 6000 7/8" Cabinet Deadlocking Latch	179.00	164.50	144.75
V850AS-138*	Twin V-10 1-3/8" Cabinet Deadlocking Latch	181.50	166.75	146.75
E850AS-138*	Twin Exclusive 1-3/8" Cabinet Deadlocking Latch	181.50	166.75	146.75
850AS-138*	Twin 6000 1-3/8" Cabinet Deadlocking Latch	181.50	166.75	146.75

PK10352..... Plastic Bar Strike 1.75/ea
PK10350..... Plastic Spacer.....3.00/pk

* Indicate product finish, Cabinet locks are available in 605 & 626 only.

ASSA manufactures high security padlocks in three classes, all of which can be integrated into any new or existing ASSA master key system. Our heavy duty padlocks are made from the highest quality materials and have withstood the most rigorous testing procedures. ASSA padlocks are used in a wide variety of applications including storage rooms, perimeter fences, and armories.

Benefits:

- Sturdy design ensures maximum durability
- Class 2 available in key retaining and non-key retaining, extended shackle
- Shackle made of rust resistant case hardened steel
- Hockey Puck style shackleless design provides maximum protection against hacksaw and bolt cutter attacks
- Drain holes to prevent freezing
- No external screws or rivets
- A protective dust cover made from durable molded plastic is available for use with these padlocks

Technical Information:

- Class 2 body extruded brass, rust resistant case hardened steel shackle, tensile strength 1.5 tons. (Class 2 not recommended for exterior use)
- Class 2 convertible from key retaining to non-key retaining
- Class 3 body case hardened steel, rust resistant case hardened steel shackle, tensile strength 4.5 tons
- Hockey Puck style body can withstand up to 10,000 lbs of force from bolt cutters
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

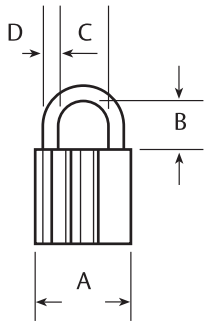
Warranty:

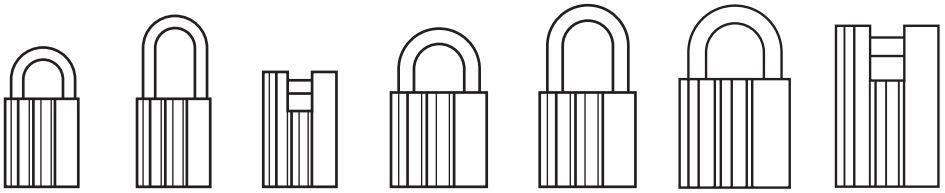
- ASSA warrants its cylinders against defective workmanship or wear resulting from defects for one year

Certification:

- All ASSA High Security Padlocks are U.L. 437 listed

ATSI Lock Supply
6174 State Route 88, Finleyville, PA 15332
Office: 724-969-2595
Cell/Text: 703-283-6192
Fax: 413-677-7814
Email: sales@atsilock.com

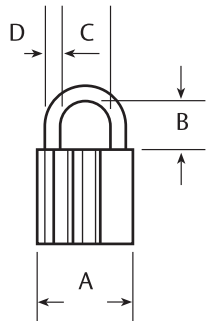


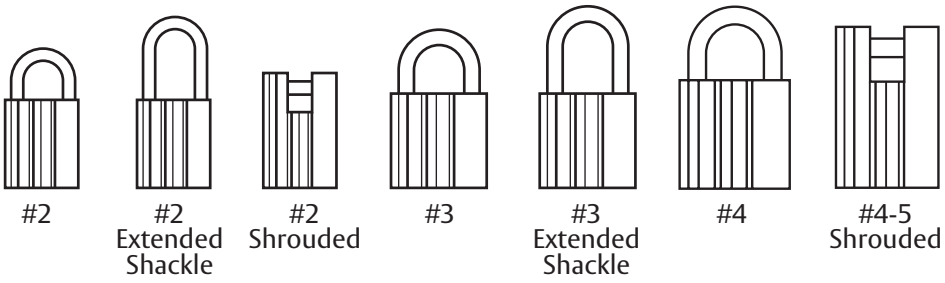


#2 | #2 Extended Shackle | #2 Shrouded | #3 | #3 Extended Shackle | #4 | #4-5 Shrouded

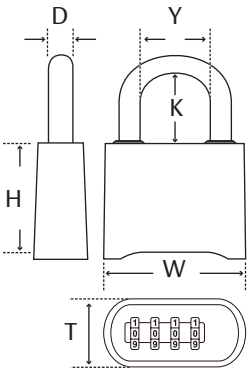
Model#	Notes	Description	A	B	C	D	Comp	Sub	SNS
Maximum +									
98190B		No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315	236.00	216.00	211.00
98190LB		No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	244.00	224.00	219.00
98190SB		No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315	269.00	249.00	244.00
98191B		No.2 Key-Retaining	1.900	1.100	0.940	0.315	236.00	216.00	211.00
98191LB		No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	244.00	224.00	219.00
98391B		No.3 Key-Retaining	2.450	1.235	1.295	0.395	458.00	438.00	433.00
98391LB		No.3 Key-Retaining Ext. Shackle	2.450	1.875	1.295	0.395	473.00	453.00	448.00
98391SB		No.3 Key Ret. w/Shrouded Shackle	2.450	0.710	0.590	0.395	520.00	500.00	495.00
98491B		No.4 Key-Retaining	3.150	0.985	0.830	0.550	709.00	689.00	684.00
98591SB		No.5 Key Ret. w/Shrouded Shackle	3.150	0.985	0.830	0.550	757.00	737.00	732.00
Maximum + Restricted Padlocks									
R28190B		No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315	173.00	153.00	—
R28190LB		No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	190.00	170.00	—
R28190SB		No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315	205.00	185.00	—
R28191B		No.2 Key-Retaining	1.900	1.100	0.940	0.315	205.00	185.00	—
R28191LB		No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	214.00	194.00	—
R28391B		No.3 Key-Retaining	2.450	1.235	1.295	0.395	347.00	327.00	—
Twin Maximum									
88190B	CLIQ	No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315	240.00	220.00	215.00
88190LB	CLIQ	No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	249.00	229.00	224.00
88190SB	CLIQ	No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315	272.00	252.00	247.00
88191B	CLIQ	No.2 Key-Retaining	1.900	1.100	0.940	0.315	240.00	220.00	215.00
88191LB	CLIQ	No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	249.00	229.00	224.00
88391B	CLIQ	No.3 Key-Retaining	2.450	1.235	1.295	0.395	465.00	445.00	440.00
88391LB	CLIQ	No.3 Key-Retaining Ext. Shackle	2.450	1.875	1.295	0.395	481.00	461.00	456.00
88391SB	CLIQ	No.3 Key Ret. w/Shrouded Shackle	2.450	0.710	0.590	0.395	527.00	507.00	502.00
88491B	CLIQ	No.4 Key-Retaining	3.150	0.985	0.830	0.550	720.00	700.00	695.00
88591SB	CLIQ	No.5 Key Ret. w/Shrouded Shackle	3.150	0.985	0.830	0.550	768.00	748.00	743.00
Twin Exclusive									
E65190B		No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315	289.00	269.00	264.00
E65190LB		No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	303.00	283.00	278.00
E65190SB		No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315	321.00	301.00	296.00
E65191B		No.2 Key-Retaining	1.900	1.100	0.940	0.315	289.00	269.00	264.00
E65191LB		No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	303.00	283.00	278.00
E65391B		No.3 Key-Retaining	2.450	1.235	1.295	0.395	513.00	493.00	488.00
E65391LB		No.3 Key-Retaining Ext. Shackle	2.450	1.875	1.295	0.395	569.00	549.00	544.00
E65391SB		No.3 Key Ret. w/Shrouded Shackle	2.450	0.710	0.590	0.395	585.00	565.00	560.00
E65491B		No.4 Key-Retaining	3.150	0.985	0.830	0.550	799.00	779.00	774.00
E65591SB		No.5 Key Ret. w/Shrouded Shackle	3.150	0.985	0.830	0.550	882.00	862.00	857.00

CLIQ – Twin Maximum available with CLIQ™ Technology. Example: 88191B x **CLIQ** x 626 x Sidebar x Comp



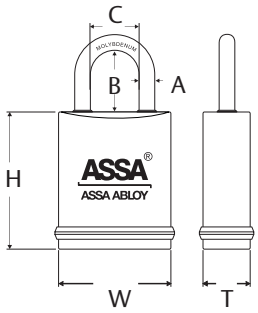


Model#	Notes	Description	A	B	C	D	Comp	Sub	SNS
Twin 6000 Classic									
65190B		No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315	289.00	269.00	264.00
65190LB		No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	303.00	283.00	278.00
65190SB		No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315	321.00	301.00	296.00
65191B		No.2 Key-Retaining	1.900	1.100	0.940	0.315	289.00	269.00	264.00
65191LB		No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	303.00	283.00	278.00
65391B		No.3 Key-Retaining	2.450	1.235	1.295	0.395	513.00	493.00	488.00
65391LB		No.3 Key-Retaining Ext. Shackle	2.450	1.875	1.295	0.395	569.00	549.00	544.00
65391SB		No.3 Key Ret. w/Shrouded Shackle	2.450	0.710	0.590	0.395	585.00	565.00	560.00
65491B		No.4 Key-Retaining	3.150	0.985	0.830	0.550	799.00	779.00	774.00
65591SB		No.5 Key Ret. w/Shrouded Shackle	3.150	0.985	0.830	0.550	882.00	862.00	857.00
Twin V-10									
V65190B		No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315	289.00	269.00	264.00
V65190LB		No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	303.00	283.00	278.00
V65190SB		No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315	321.00	301.00	296.00
V65191B		No.2 Key-Retaining	1.900	1.100	0.940	0.315	289.00	269.00	264.00
V65191LB		No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	303.00	283.00	278.00
V65391B		No.3 Key-Retaining	2.450	1.235	1.295	0.395	513.00	493.00	488.00
V65391LB		No.3 Key-Retaining Ext. Shackle	2.450	1.875	1.295	0.395	569.00	549.00	544.00
V65391SB		No.3 Key Ret. w/Shrouded Shackle	2.450	0.710	0.590	0.395	585.00	565.00	560.00
V65491B		No.4 Key-Retaining	3.150	0.985	0.830	0.550	799.00	779.00	774.00
V65591SB		No.5 Key Ret. w/Shrouded Shackle	3.150	0.985	0.830	0.550	882.00	862.00	857.00
Twin Pro									
61190B		No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315	289.00	269.00	264.00
61190LB		No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	303.00	283.00	278.00
61190SB		No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315	321.00	301.00	296.00
61191B		No.2 Key-Retaining	1.900	1.100	0.940	0.315	289.00	269.00	264.00
61191LB		No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315	303.00	283.00	278.00
61391B		No.3 Key-Retaining	2.450	1.235	1.295	0.395	513.00	493.00	488.00
61391LB		No.3 Key-Retaining Ext. Shackle	2.450	1.875	1.295	0.395	569.00	549.00	544.00
61391SB		No.3 Key Ret. w/Shrouded Shackle	2.450	0.710	0.590	0.395	585.00	565.00	560.00
61491B		No.4 Key-Retaining	3.150	0.985	0.830	0.550	799.00	779.00	774.00
61591SB		No.5 Key Ret. w/Shrouded Shackle	3.150	0.985	0.830	0.550	882.00	862.00	857.00



Combination Resettable Brass Padlock

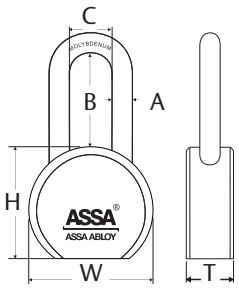
Model#	Description	W	H	T	D	K	Y	MSRP
SRB36	4-Dial Brass Combination Padlock 1" Shackle	1.875	1.6875	0.70312	0.3125	1.0	1.0	43.75
SRB36D	4-Dial Brass Combination Padlock 1" Shackle Carded							43.75
SRB37	4-Dial Brass Combination Padlock 2-1/4" Shackle					2.25		47.75
SRB37D	4-Dial Brass Combination Padlock 2-1/4" Shackle Carded							47.75



LFIC, KIK & SFIC Interchangeable Core Padlocks

Model#	Description	W	H	T	A	B	C	MSRP
ATSI-KIK-1B-KIK	1-3/4" Wide Brass Body KIK (Schlage) Padlock with 1" Clearance & 1/4" Dia. Shackle	1.75	2.25	4/5	.25	1.0	.75	88.75
ATSI-KIK-2B-KIK	1-3/4" Wide Brass Body KIK (Schlage) Padlock with 1" Clearance & 5/16" Dia. Shackle	1.75	2.25	4/5	.3125	1.0	.75	88.75
ATSI-KIK-3B-KIK	2" Wide Brass Body KIK (Schlage) Padlock with 1" Clearance & 3/8" Dia. Shackle	2.0	2.25	4/5	.375	1.0	.75	105.25
ATSI-KIK-1B2-KIK	1-3/4" Wide Brass Body KIK (Schlage) Padlock with 2" Clearance & 1/4" Dia. Shackle	1.75	2.25	4/5	.25	2.0	.75	91.50
ATSI-KIK-2B2-KIK	1-3/4" Wide Brass Body KIK (Schlage) Padlock with 2" Clearance & 5/16" Dia. Shackle	1.75	2.25	4/5	.3125	2.0	.75	91.50
ATSI-KIK-3B2-KIK	2" Wide Brass Body KIK (Schlage) Padlock with 2" Clearance & 3/8" Dia. Shackle	2.0	2.25	4/5	.375	2.0	.75	109.25
AA-450-25-SFIC	1-3/4" Wide Brass Body SFIC Padlock with 1" Clearance & 5/16" Dia. Shackle	1.75	2.25	4/5	.3125	1.0	.75	88.75
AA-500-25-SFIC	2" Wide Brass Body SFIC Padlock with 1" Clearance & 3/8" Dia. Shackle	2.0	2.25	4/5	.375	1.0	.75	105.25
AA-450-50-SFIC	1-3/4" Wide Brass Body SFIC Padlock with 2" Clearance & 5/16" Dia. Shackle	1.75	2.25	4/5	.3125	2.0	.75	91.50
AA-500-50-SFIC	2" Wide Brass Body SFIC Padlock with 2" Clearance & 3/8" Dia. Shackle	2.0	2.25	4/5	.375	2.0	.75	109.25
AA-451-25-LFIC	1-3/4" Wide Brass Body LFIC (SCHLAGE) Padlock with 1" Clearance & 5/16" Dia. Shackle	1.75	2.25	4/5	.3125	1.0	.75	88.75
AA-451-50-LFIC	1-3/4" Wide Brass Body LFIC (SCHLAGE) Padlock with 2" Clearance & 5/16" Dia. Shackle	1.75	2.25	4/5	.3125	2.0	.75	105.25
AA-501-25-LFIC	2" Wide Brass Body LFIC (SCHLAGE) Padlock with 1" Clearance & 3/8" Dia. Shackle	2.0	2.25	4/5	.375	1.0	.75	91.50
AA-501-50-LFIC	2" Wide Brass Body LFIC (SCHLAGE) Padlock with 2" Clearance & 3/8" Dia. Shackle	2.0	2.25	4/5	.375	2.0	.75	109.25
AA-450-25-LFIC	1-3/4" Wide Brass Body LFIC (ASSA) Padlock with 1" Clearance & 5/16" Dia. Shackle	1.75	2.25	4/5	.3125	1.0	.75	88.75
AA-450-50-LFIC	1-3/4" Wide Brass Body LFIC (ASSA) Padlock with 2" Clearance & 5/16" Dia. Shackle	1.75	2.25	4/5	.3125	2.0	.75	105.25
AA-500-25-LFIC	2" Wide Brass Body LFIC (ASSA) Padlock with 2" Clearance & 3/8" Dia. Shackle	2.0	2.25	4/5	.375	2.0	.75	91.50
AA-500-50-LFIC	2" Wide Brass Body LFIC (ASSA) Padlock with 2" Clearance & 3/8" Dia. Shackle	2.0	2.25	4/5	.375	2.0	.75	109.25

AA-KIK-PDLCK-DRVR - ASSA KIK Padlock Driver $14.00
AA-450-1.5 SHACKLE (1.5" Clearance & 5/16" Dia. Shackle for AA-450-25/50-XXXX Padlocks) $15.50



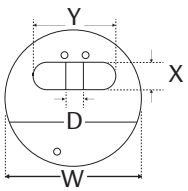
KIK & SFIC High Security Solid Steel Interchangeable Core Padlocks

Model#	Description	W	H	T	A	B	C	MSRP
AA-900-KIK	Round Body Solid Steel KIK Padlock with 1" Shackle	2.625	2.375	1.0	.4375	1.125	.875	91.50
AA-900-SFIC	Round Body Solid Steel SFIC Padlock with 1" Shackle	2.625	2.375	1.0	.4375	1.0	.875	91.50
AA-902-KIK	Round Body Solid Steel KIK Padlock with 2" Shackle	2.625	2.375	1.0	.4375	2.125	.875	95.50
AA-902-SFIC	Round Body Solid Steel SFIC Padlock with 2" Shackle	2.625	2.375	1.0	.4375	2.0	.875	95.50

Padlock Cylinders Only

Model#	Notes	Description	Comp	Sub	SNS
Maximum +					
98911		Padlock Cylinder No. 2, 3, 4-5	154.00	146.50	139.50
Twin Maximum					
88911	CLIQ	Padlock Cylinder No. 2, 3, 4-5	164.00	156.50	149.50
Twin Exclusive					
E65911		Padlock Cylinder No. 2, 3, 4-5	169.00	161.50	154.50
Twin 6000 Classic					
65911		Padlock Cylinder No. 2, 3, 4-5	169.00	161.50	154.50
Twin V-10					
V65911		Padlock Cylinder No. 2, 3, 4-5	169.00	161.50	154.50
Twin Pro					
61911		Padlock Cylinder No. 2, 3, 4-5	169.00	161.50	154.50

CLIQ – Twin Maximum available with CLIQ™ Technology. Example: 88191B x **CLIQ** x 626 x Sidebar x Comp



Dial Puck Lock – Shackle Less Resettable Combination

Model#	Description	W	D	X	Y	MSRP
AA-SR400	Resettable Dial Puck Lock 10,000 Combinations	2.875	.375	0.5	1.71875	162.00
AA-SR400-D	Resettable Dial Puck Lock 10,000 Combinations Visual Package	2.875	.375	0.5	1.71875	162.00

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"Hockey Puck" Shackle Less Padlock

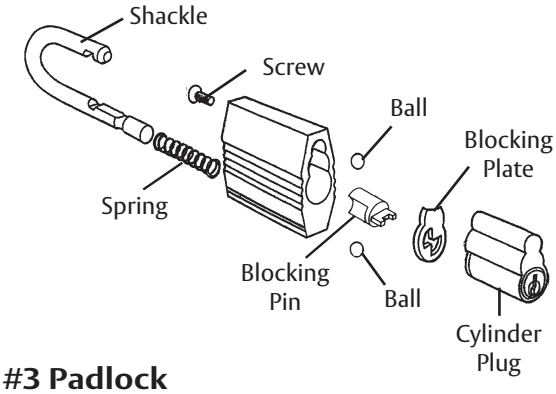
Model#	Notes	Description	A	Comp	Sub	SNS
Maximum +						
9845		Hockey Puck Style Padlock	2.875	224.00	204.00	199.00
9845 ATSI SS		Stainless Steel flat bottom Puck				
Twin Maximum						
8845		Hockey Puck Style Padlock	2.875	239.00	219.00	214.00
8845 ATSI SS		Stainless Steel flat bottom Puck				
Twin Exclusive						
E6545		Hockey Puck Style Padlock	2.875	255.00	235.00	230.00
E6545 ATSI SS		Stainless Steel flat bottom Puck				
Twin V-10						
V6545		Hockey Puck Style Padlock	2.875	255.00	235.00	230.00
6545 ATSI SS		Stainless Steel flat bottom Puck				
Twin Pro						
6145		Hockey Puck Style Padlock	2.875	217.50	243.75	197.00
6145 ATSI SS		Stainless Steel flat bottom Puck				
6145 ATSI ALUM		Aluminum flat bottom Puck				
SFIC						
R28600SFIC		Stainless Steel flat bottom Puck	2.875	283.50	262.00	255.25
6140 ATSI ALUM SFIC		Aluminum flat bottom Puck				
Miscellaneous			**Price**			
770 ATSI		Puck Hasp	52.25			
775 ATSI		Puck Hasp	52.25			

867048 — Hockey Puck Plate Screw $0.32.
867049 — Hockey Puck Stop Plate $1.32.

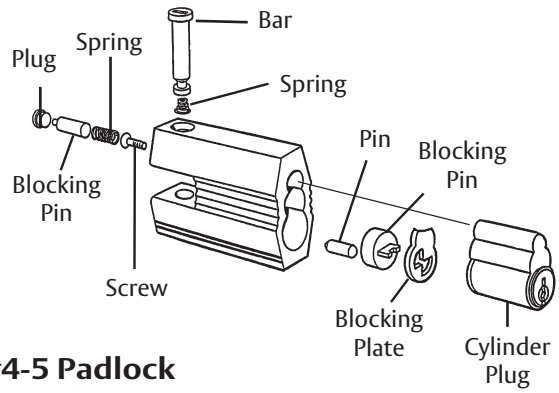
"Hockey Puck" Cylinders Only

Model#	Notes	Description	Comp	Sub	SNS
Maximum +					
98411		Hockey Puck Cylinder	153.25	144.75	130.75
Twin Maximum					
88411		Hockey Puck Cylinder	160.50	152.00	138.00
Twin Exclusive					
E65411		Hockey Puck Cylinder	166.75	158.25	144.00
Twin V-10					
V65411		Hockey Puck Cylinder	166.75	158.25	144.00
Twin Pro					
61411		Hockey Puck Cylinder	166.75	158.25	144.00

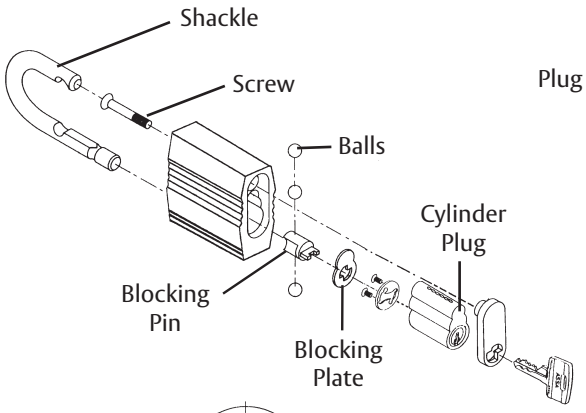
#2 Padlock



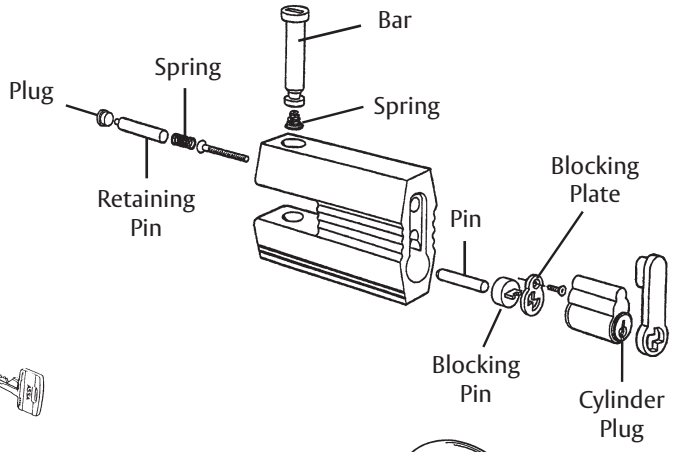
#2 Shrouded Padlock

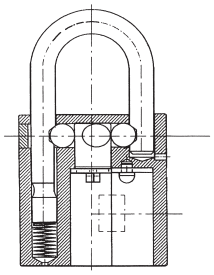


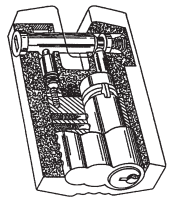
#3 Padlock

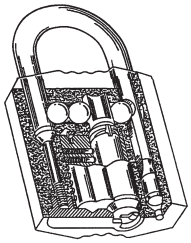


#4-5 Padlock









Padlock Component Parts

Model#	Description	Price
806898	No.2 Regular Shackle	60.80/ea
807217	No.2 Extended Shackle	65.00/ea
P250517	No.2 Shackle Spring	2.66/ea
806910	No.3 Padlock Shackle	78.10/ea
809387	No.2 Key-Retaining Blocking pin	10.10/ea
809388	No.2 Non-Key-Retaining Conversion Kit (Includes Blocking Pin/Spring/Tailpiece)	74.00/ea
P793810	No.2 Tailpiece Cam Screws	2.66/ea
867046	No.2 Tailpiece Washer	9.48/ea
P857300	No.2 Plate & No. 3 Plate	2.15/ea
803607	No.2 Locking Balls	2.15/ea
P793110	No.2 Cylinder Retaining Screw	2.66/ea
806913	No.3 Cylinder Retaining Screw	12.70/ea
803575	No.3 Locking Ball Bearings	4.08/ea
806911	No.3 Blocking Pin	48.60/ea
089280	No.3 Extended Shackle	59.10
353969	Twin V-10 Padlock Cylinder Plug	79.50
367018	Twin 6000 Classic Padlock Cylinder Plug (Specify Profile 50,52,61,62)	79.50
356071	Twin Exclusive / 6000 Classic Padlock Cylinder Plug (Specify Profile 51,851)	79.20
816068	Maximum+ / Twin Maximum Padlock Cylinder Plug (Specify Profile 0A7, 0M7)	103.00

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European Cylinders

ASSA manufactures a variety of European cylinders including the Scandinavian oval and the Euro Din (M20 Series). Available for different door thicknesses and featuring a cam actuator, ASSA Euro Din cylinders can be used with many types of imported locksets and specialty hardware. All European cylinders can be keyed into any new or existing ASSA key system.

Scandinavian Oval Cylinder

Benefits:

- Retrofits variety of European applications
- Two independent locking mechanisms to ensure security and optimum pick resistance
- Inactive "false" grooves on side pins designed to increase pick resistance

Technical Information:

- M20 Series available for different door thicknesses
- Cylinder housing and plug made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

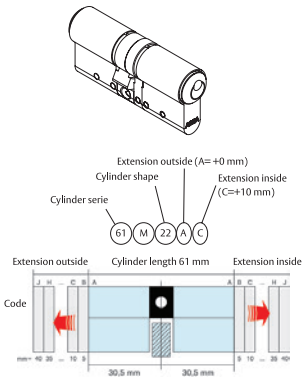
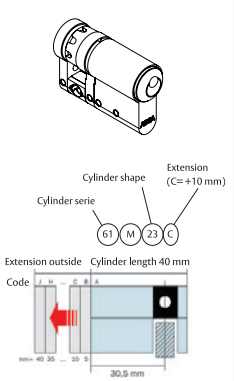
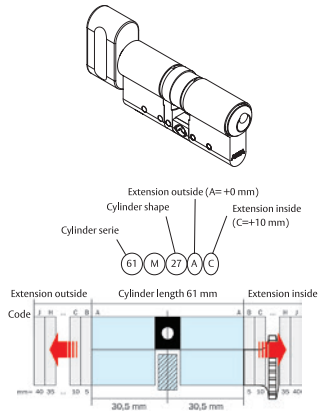
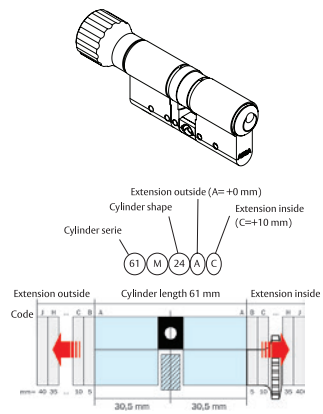
Warranty:

- ASSA warrants its products against defective workmanship or wear resulting from defects for one year

Finishes:

BHMA Symbol	U.S. Symbol	Description
626	US 26D	Satin Chrome
605	US 3	Bright Brass

ASSA M20 Cylinder – Master Key System

Double Cylinder	Single Cylinder	Cylinder, Design Turn	Cylinder, Narrow Profile Turn
			
XXM22/25	XXM23	XXM27	XXM24

Guideline for M20 EURO accessories
Location of lock cases, cylinders and accessories

1. Specification of M20 Cylinder/turn and accessories.
a) Measure the door thickness (A).
b) Measure the distance between the centre of the lock case and the security side of the door (B).
c) Measure the distance between the centre of the lock case and the inside of the door (C).
d) Add the thickness of the cylinder accessories to the B and C measurement. The result will be the length of the cylinder/turn.

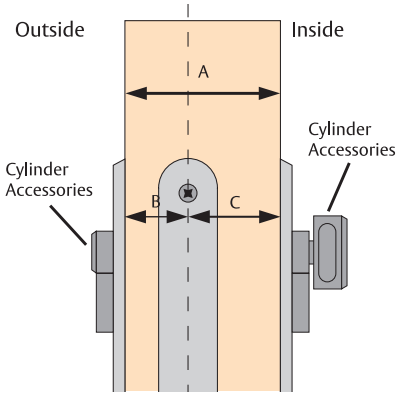


Table Measurement

Code	Length mm
A	+0
B	+5
C	+10
D	+15
E	+20
F	+25
G	+30
H	+35
I	+40
J	+45
K	+50
L	+55

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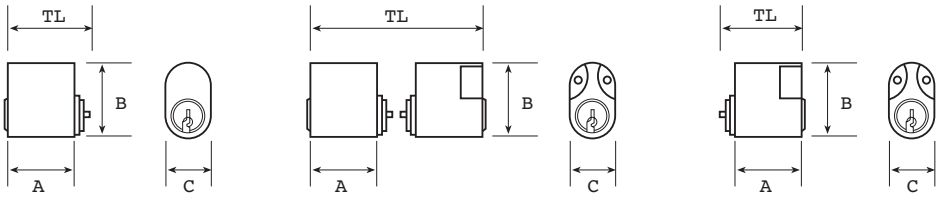
M20 Din Euro Profile Cylinders

Model#	Notes	Description	Comp	Sub	SNS
Maximum +					
98M27AA		Large Thumbturn Single Cylinder 61MM	563.25	535.00	521.25
98M24AA		Small Thumbturn Single Cylinder 61MM	563.25	568.50	521.25
98M22AA		Double Cylinder 61MM	619.00	440.50	540.00
98M23AA		Single Cylinder No Thumbturn 31MM	468.50	434.50	424.50
Twin Maximum					
88M27AA	CLIQ	Large Thumbturn Single Cylinder 61MM	563.25	535.00	521.25
88M24AA	CLIQ	Small Thumbturn Single Cylinder 61MM	563.25	568.50	521.25
88M22AA	CLIQ	Double Cylinder 61MM	619.00	440.50	540.00
88M23AA	CLIQ	Single Cylinder No Thumbturn 31MM	468.50	434.50	424.50
Twin Exclusive					
E65M27AA		Large Thumbturn Single Cylinder 61MM	563.25	535.00	521.25
E65M24AA		Small Thumbturn Single Cylinder 61MM	563.25	568.50	521.25
E65M22AA		Double Cylinder 61MM	619.00	440.50	540.00
E65M23AA		Single Cylinder No Thumbturn 31MM	468.50	434.50	424.50
Twin V-10					
V65M27AA		Large Thumbturn Single Cylinder 61MM	563.25	535.00	521.25
V65M24AA		Small Thumbturn Single Cylinder 61MM	563.25	568.50	521.25
V65M22AA		Double Cylinder 61MM	619.00	440.50	540.00
V65M23AA		Single Cylinder No Thumbturn 31MM	468.50	434.50	424.50
Twin 6000 Classic					
65M27AA		Large Thumbturn Single Cylinder 61MM	563.25	535.00	521.25
65M24AA		Small Thumbturn Single Cylinder 61MM	563.25	568.50	521.25
65M22AA		Double Cylinder 61MM	619.00	440.50	540.00
65M23AA		Single Cylinder No Thumbturn 31MM	468.50	434.50	424.50

CLIQ – Twin Maximum available with CLIQ™ Technology. Example: 88M27 x **CLIQ** x Comp
Add $889.00 per CLIQ cylinder

ADD $5.25 for each additional letter size.

Profile Cylinder Key:
TL – Total Length
A – Cylinder Length
B – Cylinder Height
C – Cylinder Width



Oval Cylinders

Model#	Notes	Description	TL	A	B	C	Comp	Sub	SNS
Maximum +									
9801		Oval, Outside	1.577	1.236	1.376	0.784	280.00	272.50	265.00
9801L		Oval, Outside for 505					396.75	385.00	368.25
9802		Oval, Double	N/A				571.00	557.50	541.00
9803		Oval, Inside	1.577				283.00	275.00	268.00
Twin Maximum									
8801	CLIQ	Oval, Outside	1.577	1.236	1.376	0.784	312.00	304.50	297.00
8801L	CLIQ	Oval, Outside for 505					435.50	423.50	406.75
8802	CLIQ	Oval, Double	N/A				638.00	624.50	608.00
8803	CLIQ	Oval, Inside	1.577				317.00	309.00	302.00
Twin Exclusive									
E6501		Oval, Outside	1.577	1.236	1.376	0.784	324.00	316.50	309.00
E6501L		Oval, Outside for 505					451.50	439.75	423.00
E6502		Oval, Double	N/A				663.00	649.50	633.00
E6503		Oval, Inside	1.577				329.00	321.00	314.00
Twin 6000 Classic									
6501		Oval, Outside	1.577	1.236	1.376	0.784	324.00	316.50	309.00
6501L		Oval, Outside for 505					451.50	439.75	423.00
6502		Oval, Double	N/A				663.00	649.50	633.00
6503		Oval, Inside	1.577				329.00	321.00	314.00
Twin V-10									
V6501		Oval, Outside	1.577	1.236	1.376	0.784	324.00	316.50	309.00
V6501L		Oval, Outside for 505					451.50	439.75	423.00
V6502		Oval, Double	N/A				663.00	649.50	633.00
V6503		Oval, Inside	1.577				329.00	321.00	314.00
600 Series Classic									
601		Oval, Outside	1.577	1.236	1.376	0.784	330.00	313.50	—
601L		Oval, Outside for 505					370.25	351.25	—
602		Oval, Double	N/A				716.00	680.00	—
603		Oval, Inside	1.577				354.00	337.00	—

CLIQ – Twin Maximum available with CLIQ™ Technology. Example: 8801 x **CLIQ** x Comp

NOTE: Oval cylinders do not include cylinder rings, mounting screws or other trim.

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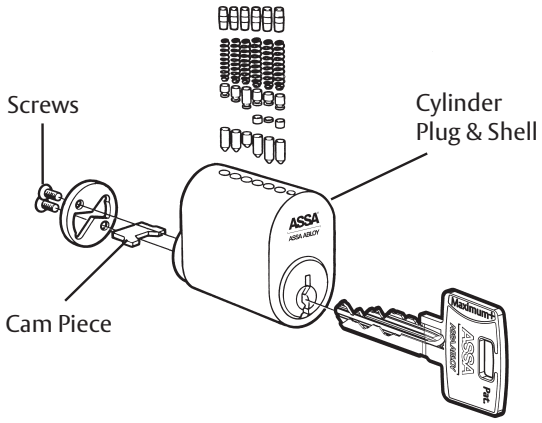
Scandinavian Oval Cylinders



Oval Cylinder Parts

Model#	Description	Price
Maximum+ / Twin Maximum		
867064	Oval Cyl. Housing, Outside	91.80
867110	Oval Cyl. Housing, Inside	116.00
816068 †	Oval Cylinder Plug	103.00
Twin Exclusive / 6000 Classic		
867064	Oval Cyl. Housing, Outside	91.80
867110	Oval Cyl. Housing, Inside	116.00
356071 †	Oval Cylinder Plug (Specify Profile)	79.20
Twin V-10		
867064	Oval Cyl. Housing, Outside	91.80
867110	Oval Cyl. Housing, Inside	116.00
353969	Oval Cylinder Plug	79.20

† – Specify Profile

Oval Cylinder Adapters

Model#	Description	Price
803170	Oval Outside Cylinder Adapter, for Schlage KIK/KIL Cylinder	257.50
803171	Oval Inside Cylinder Adapter, for Schlage KIK/KIL Cylinder	257.50
804215-S	Short Schlage Adapter Tailpiece (Will fit 505 function)	50.00
804215-M	Medium Schlage Adapter Tailpiece (Will fit 505 function)	53.75
804215-L	Long Schlage Adapter Tailpiece (Will fit 505 function)	59.25

ASSA provides all the necessary tools for both the retail and institutional locksmith to service and maintain our locks in the field. We offer several sizes of pinning kits from large, full service kits designed for the shop environment to smaller, convenient kits appropriate for service calls.

Also available are high quality key cutting equipment, all approved ASSA cylinder lubricants.

MPK Master Pin Kit

Item Number	Description	Quantity	Price Per Kit
353838	Left Side Pin V-10	50	2,809.00
359654	Twin-Max Sidepin Left		
362808	Corbin RC Cover Strip	10	
867046	Tail Piece Washer DBOLT/PDLK	2	
806974	Closing Rods	20	
807164	V-10/T Pro Spring For Side Bar	100	
807165	V-10/T Pro Sidepin Springs		
807401	RC C-Ring	4	
807402	RC Cover Slide	15	
807403	RC Cam Adapter	2	
807404	RC Wave Washer	10	
807405	RC Rubber Stop	6	
809312	IC Core Plug Spacer Washer		
809314	Master Pin 9, IC Core Cylinders	100	
809315	Master Pin 10, IC Core Cylinders		
809316	Master Pin 11, IC Core Cylinders		
809317	Master Pin 12, IC Core Cylinders		
809318	Master Pin 13, IC Core Cylinders		
809319	Master Pin 14, IC Core Cylinders		
809320	Master Pin 15, IC Core Cylinders		
809321	Master Pin 16, IC Core Cylinders		
809322	Master Pin 17, IC Core Cylinders		
809328	Top Pin 2, IC Core Cylinders		
809329	Top Pin 3, IC Core Cylinders		

Continued on next page

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MPK Master Pin Kit (Continued)

Item Number	Description	Quantity	Price Per Kit
809330	Top Pin 4, IC Core Cylinders	100	2,809.00
809331	Top Pin 5, IC Core Cylinders		
809332	Top Pin 6, IC Core Cylinders		
809333	Top Pin 7, IC Core Cylinders		
809334	Top Pin 8, IC Core Cylinders		
809335	Top Pin 9, IC Core Cylinders		
809336	Top Pin 10, IC Core Cylinders		
809340	IC Core Chamber Springs (1-4)		
816080	Twin-Pro Sidepin	50	
867015	Side Pin, ASSA Twin		
867065	600/Twin Pin Chamber Springs	100	
807261	Top Pin A, Twin & 600		
807262	Top Pin B, Twin & 600		
807263	Top Pin C, Twin & 600		
807264	Top Pin D, Twin & 600		
867070	Master Pin 1, Twin & 600		
867071	Master Pin 2, Twin & 600		
867072	Master Pin 3, Twin & 600		
867073	Master Pin 4, Twin & 600		
867074	Master Pin 5, Twin & 600		
867075	Master Pin 6, Twin & 600		
867076	Master Pin 7, Twin & 600		
867077	Master Pin 8, Twin & 600		
867078	Bottom Pin 1, Twin & 600		
867079	Bottom Pin 2, Twin & 600		
867080	Bottom Pin 3, Twin & 600		
867081	Bottom Pin 4, Twin & 600		
867082	Bottom Pin 5, Twin & 600		
867083	Bottom Pin 6, Twin & 600		
867084	Bottom Pin 7, Twin & 600		
867085	Bottom Pin 8, Twin & 600		
867086	Bottom Pin 9, Twin & 600		
867087	Twin Spring For Side Pin		
867088	Twin Spring For Side Bar		
867090	Std Tail Piece Screw Twin/600	25	
867445	Cam, Adams Rite 600/Twin	2	
867446	Cam, Clover Leaf 600/Twin		
867447	Cam, Beaver Tail 600/Twin		
867452	Cam, Sargent 600/Twin		
867453	Cam, Schlage		
868141	M/R Cover Strip 600/Twin	50	
868624	Rollpin Corbin/4—Sargent/2	10	
868958	Schlage Plug Cap	4	
92C-127	Schlage KIK Plug Cap Spring		
868960	Schlage KIK Plug Cap Pin		
872610	Cam, Standard 600/Twin	2	
900257	Yale Tailpiece Roll Pin	10	

PK-1 Pin Kit

Item Number	Description	Quantity	Price Per Kit
353838	Left Side Pin V-10	50	1,606.00
359654	Twin-Max Sidepin Left		
807164	V-10/T Pro Spring For Side Bar	100	
807165	V-10/T Pro Sidepin Springs		
816080	Twin-Pro Sidepin	50	
867015	Side Pin, ASSA Twin		
867065	600/Twin Pin Chamber Springs	500	
807261	Top Pin A, Twin & 600	100	
807262	Top Pin B, Twin & 600		
807263	Top Pin C, Twin & 600		
807264	Top Pin D, Twin & 600		
867070	Master Pin 1, Twin & 600		
867071	Master Pin 2, Twin & 600		
867072	Master Pin 3, Twin & 600		
867073	Master Pin 4, Twin & 600		
867074	Master Pin 5, Twin & 600		
867075	Master Pin 6, Twin & 600		
867076	Master Pin 7, Twin & 600		
867077	Master Pin 8, Twin & 600		
867078	Bottom Pin 1, Twin & 600		
867079	Bottom Pin 2, Twin & 600		
867080	Bottom Pin 3, Twin & 600		
867081	Bottom Pin 4, Twin & 600		
867082	Bottom Pin 5, Twin & 600		
867083	Bottom Pin 6, Twin & 600		
867084	Bottom Pin 7, Twin & 600		
867085	Bottom Pin 8, Twin & 600		
867086	Bottom Pin 9, Twin & 600		
867087	Twin Spring For Side Pin		
867088	Twin Spring For Side Bar		
867090	Standard Tail Piece Screw Twin/600		
868141	M/R Cover Strip 600/Twin		

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PK-IC Interchangeable Core Pin Kit

Item Number	Description	Quantity	Price Per Kit
362808	Corbin RC Cover Strip	10	1,505.00
807401	RC C-Ring	50	
807402	RC Cover Slide		
807405	RC Rubber Stop		
809312	IC Core Plug Spacer Washer		
809314	Master Pin 9, IC Core Cylinders	100	
809315	Master Pin 10, IC Core Cylinders		
809316	Master Pin 11, IC Core Cylinders		
809317	Master Pin 12, IC Core Cylinders		
809318	Master Pin 13, IC Core Cylinders		
809319	Master Pin 14, IC Core Cylinders		
809320	Master Pin 15, IC Core Cylinders		
809321	Master Pin 16, IC Core Cylinders		
809322	Master Pin 17, IC Core Cylinders		
809328	Top Pin 2, IC Core Cylinders		
809329	Top Pin 3, IC Core Cylinders		
809330	Top Pin 4, IC Core Cylinders		
809331	Top Pin 5, IC Core Cylinders		
809332	Top Pin 6, IC Core Cylinders		
809333	Top Pin 7, IC Core Cylinders		
809334	Top Pin 8, IC Core Cylinders		
809335	Top Pin 9, IC Core Cylinders		
809336	Top Pin 10, IC Core Cylinders		
809340	IC Core Chamber Springs (1-4)	200	

PK-Cam Pin Kit

Item Number	Description	Quantity	Price Per Kit
807402	RC Cover Slide	50	251.00
809328	Top Pin 2, IC Core Cylinders		
809329	Top Pin 3, IC Core Cylinders		
809330	Top Pin 4, IC Core Cylinders		
809331	Top Pin 5, IC Core Cylinders		
809332	Top Pin 6, IC Core Cylinders		
809333	Top Pin 7, IC Core Cylinders		
809334	Top Pin 8, IC Core Cylinders		
809335	Top Pin 9, IC Core Cylinders		
809340	IC Core Chamber Springs (1-4)		

SFIC Pin Kit

Item Number	Description	Price Per Kit
PK-SFIC	Small Format Interchangeable Core Pin Kit	1,601.00

MAX Pin Kit

Item Number	Description	Price Per Kit
PK-MAX	Maximum+ Pin Kit	1,601.00

PKMM Pin Kit

Item Number	Description	Quantity	Price Per Kit
807164	V-10/T Pro Spring For Side Bar	25	352.00
867065	600/Twin Pin Chamber Springs		
807261	Top Pin A, Twin & 600		
807262	Top Pin B, Twin & 600		
807263	Top Pin C, Twin & 600		
807264	Top Pin D, Twin & 600		
867070	Master Pin 1, Twin & 600		
867071	Master Pin 2, Twin & 600		
867072	Master Pin 3, Twin & 600		
867073	Master Pin 4, Twin & 600		
867074	Master Pin 5, Twin & 600		
867075	Master Pin 6, Twin & 600		
867076	Master Pin 7, Twin & 600		
867077	Master Pin 8, Twin & 600		
867078	Bottom Pin 1, Twin & 600		
867079	Bottom Pin 2, Twin & 600		
867080	Bottom Pin 3, Twin & 600		
867081	Bottom Pin 4, Twin & 600		
867082	Bottom Pin 5, Twin & 600		
867083	Bottom Pin 6, Twin & 600		
867084	Bottom Pin 7, Twin & 600		
867085	Bottom Pin 8, Twin & 600		
867086	Bottom Pin 9, Twin & 600		
867088	Twin Spring For Side Bar		
867090	Std Tail Piece Screw Twin/600		

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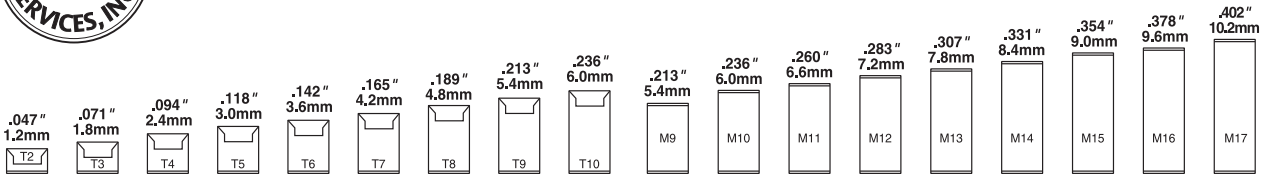


809328 809329 809330 809331 809332 809333 809334 809335 809336 809314 809315 809316 809317 809318 809319 809320 809321 809322

Interchangeable Core Parts

Model#	Notes	Description	Pkg. Qty.	Price
354023		Control Sleeve		96.20/ea
359058	*	Maximum+ and Twin Maximum Inner Plug (Specify 0A7, 0M7)		87.50
353213	*	Twin 6000 Classic and Twin Exclusive IC Inner Plug (Specify 51, 851)		87.00/ea
353968	*	V-10 IC Inner Plug		67.70/ea
807401		IC C-Ring		2.26/ea
807402		IC& Cam Lock Cover Slide		3.99/ea
807403		IC Cam Adapter		72.60/ea
807404		IC Wave Washer		3.30/ea
807405		IC Rubber Stop		4.89/ea
810695	*	IC Core (Figure-8) Housing		146.00/ea
807411	*	IC Mortise/Rim Housing		178.00/ea
809340		IC Core Chamber Spring (1st Four Chambers)	100	61.00/pk
809312		IC Plug Spacer Washer		2.40/ea

*Indicate product finish.

Top Pins for IC Core and Cam Locks Cyls. Only

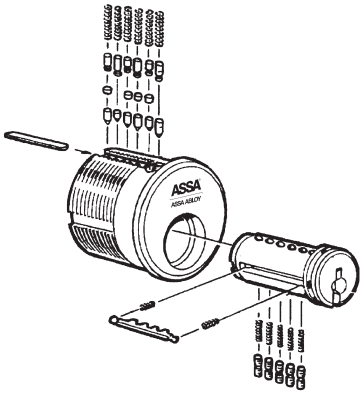
Model#	Description	Pkg. Qty.	Price
809328	Top Pin #2	100	61.00/pk
809329	Top Pin #3		61.00/pk
809330	Top Pin #4		61.00/pk
809331	Top Pin #5		61.00/pk
809332	Top Pin #6		61.00/pk
809333	Top Pin #7		61.00/pk
809334	Top Pin #8		61.00/pk
809335	Top Pin #9		61.00/pk
809336	Top Pin #10		61.00/pk

Master Pins (Build Up) for IC Core Cyls. Only

Model#	Description	Pkg. Qty.	Price
809314	Master Pin #9	100	65.00/pk
809315	Master Pin #10		65.00/pk
809316	Master Pin #11		65.00/pk
809317	Master Pin #12		65.00/pk
809318	Master Pin #13		65.00/pk
809319	Master Pin #14		65.00/pk
809320	Master Pin #15		65.00/pk
809321	Master Pin #16		65.00/pk
809322	Master Pin #17		65.00/pk

SFIC Pin Parts

Model#	Description	Pkg. Qty.	Price
909001	SFIC Bottom Pin # 1	100	19.00/pk
909002	SFIC Bottom Pin # 2		19.00/pk
909003	SFIC Bottom Pin # 3		19.00/pk
909004	SFIC Bottom Pin # 4		19.00/pk
909005	SFIC Bottom Pin # 5		19.00/pk
909006	SFIC Bottom Pin # 6		19.00/pk
909007	SFIC Bottom Pin # 7		19.00/pk
909008	SFIC Bottom Pin # 8		19.00/pk
911001	SFIC Master Pin #1		17.00/pk
911002	SFIC Master Pin #2		17.00/pk
911003	SFIC Master Pin #3		17.00/pk
911004	SFIC Master Pin #4		17.00/pk
911005	SFIC Master Pin #5		17.00/pk
911006	SFIC Master Pin #6		17.00/pk
911007	SFIC Master Pin #7		17.00/pk
911008	SFIC Master Pin #8		17.00/pk
911009	SFIC Master Pin #9		17.00/pk
911010	SFIC Master Pin #10		17.00/pk
911011	SFIC Master Pin #11		17.00/pk
911012	SFIC Master Pin #12		17.00pk
809340	Chamber Springs		61.00/pk
910013	Caps		18.00/pk



Sidebars

Model#	Description	Price
267008	Sidebar (Specify Side Code) Minimum order 25 pieces	20.30 each

Pins, Spring & Closers

Model#	Description	Pkg. Qty.	Price
807261	Driver Pin 1-2 (A)	100	65.00/pk
807262	Driver Pin 3-4 (B)		65.00/pk
807263	Driver Pin 5-6 (C)		65.00/pk
807264	Driver Pin 7-8-9 (D)		65.00/pk
867070	Master Pin 1		65.00/pk
867071	Master Pin 2		65.00/pk
867072	Master Pin 3		65.00/pk
867073	Master Pin 4		65.00/pk
867074	Master Pin 5		65.00/pk
867075	Master Pin 6		65.00/pk
867076	Master Pin 7		65.00/pk
867077	Master Pin 8		65.00/pk
867078	Bottom Pin 1		65.00/pk
867079	Bottom Pin 2		65.00/pk
867080	Bottom Pin 3		65.00/pk
867081	Bottom Pin 4		65.00/pk
867082	Bottom Pin 5		65.00/pk
867083	Bottom Pin 6		65.00/pk
867084	Bottom Pin 7		65.00/pk
867085	Bottom Pin 8		65.00/pk
867086	Bottom Pin 9		65.00/pk
867065	Cylinder Springs		65.00/pk
867015	Twin Side Pins	50	146.00/pk
353838	V-10 Left Hand Side Pins		115.50/pk
359654	Maximum+ / Twin Maximum Left Hand Side Pins		124.50/pk
816080	Twin Pro Side Pins		136.50/pk
807164	Maximum+ / Twin Maximum / V-10 Sidebar Springs	100	41.00/pk
807165	Maximum+ / Twin Maximum / V-10 Sidepin Springs		41.00/pk
867087	Twin Sidepin Springs		43.00/pk
867088	Twin Sidebar Springs		43.00/pk
868141	Pin Chamber Closing Strips, Mort, Rim, KIK		145.00/ea
867093	Closing Plugs, Oval Cylinders		25.00/pk
806346	Top Closing Screw		227.00/pk

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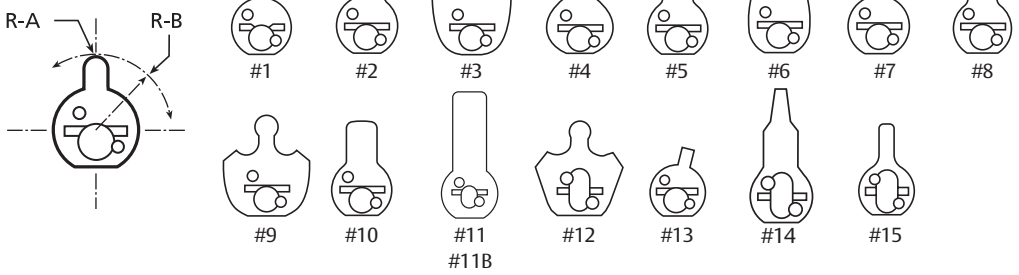
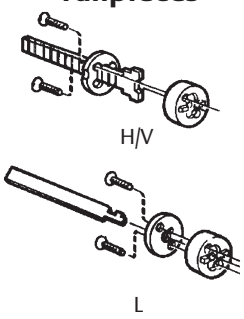
Cam Key: R-A – Head Radius • **R-B** – Overall Radius



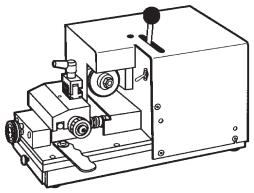
Tailpieces



Cams & Tailpieces

Model#	Description	R-A	R-B	Pkg. Qty.	Price
867445	#1 Adams Rite Cam	0.118	0.555		12.20/ea
867452	#2 Sargent Cam	N/A	0.709		12.20/ea
867446	#3 Corbin Clover Leaf Cam	0.114	0.602		12.20/ea
867447	#4 Corbin Beaver Tail Cam	N/A	0.732		13.50/ea
872610	#5 Yale/Standard Cam	N/A	0.709		12.20/ea
867453	#6 Schlage "L" Cam	0.124	0.516		29.10/ea
805412	#7 Segal Type Cam	N/A	0.779		29.10/ea
806471	#8 Jumbo Corbin Cam	N/A	0.914		29.10/ea
907306	#9 Best 30H Series	0.114	0.602		30.00/ea
353445	#10 Airteq/Norment Cam	N/A	0.787		11.70/ea
809337	#11 Airteq/Norment Mogul Cam	N/A	1.165		31.10/ea
809337B	#11B Airteq/Norment Mogul Cam	N/A	1.165		31.10/ea
354945	#12 Corbin Jumbo Clover Leaf Cam	0.114	0.828		31.10/ea
355849	#13 Sargent Short Cam	N/A	0.515		31.10/ea
355850	#14 Sargent Mogul	N/A	1.043		29.10/ea
872612	#15 Yale Replacement Cam	0.308	0.742		40.00/ea
867450	Horizontal & Vertical Rim Tailpiece kit				40.00/ea
867451	Lazy-motion Rim Tailpiece kit				61.70/pk
868958	Schlage KIK Plug Cap			10	226.00/pk
92C-127	Schlage KIK Plug Cap Spring			100	215.00/pk
868960	Schlage KIK Plug Cap Pin				125.00/pk
804877	Schlage Break-off Tailpiece			10	69.60/pk
868654	Corbin New Style Standard-duty Tailpiece			10	21.50/pk
868624	Rollpin - Corbin			10	226.00/pk
868231	Cylinder Plug Retaining Ring			100	6.65/ea
900250	Sargent 6-line, Arrow Tailpiece (short)				6.65/ea
900251	Sargent 6-line, Arrow Tailpiece (long)				2.15/ea
900252	Sargent 6-line, Arrow Tailpiece retaining ring				5.61/ea
900253	Sargent/Arrow Tailpiece (Med.)				12.50/ea
900254	Sargent 11-line T-Zone Tailpiece				16.60/ea
900256	Yale Key-In-Lever Tailpiece				6.17/ea
900257	Yale Key-In-Lever Roll Pin				474.00/pk
867046	Tailpiece Washer			50	91.00/pk
867090	Phillips Screws for Cams, Mortise & Oval Tailpiece			100	330.00/pk
868138	Slotted Screws for Rim Tailpiece				28.90/ea
868134	Tail Extension for Rim Cylinder				17.50/ea
867109	Break-off Tailpiece for V/H Rim Cylinder				17.10/ea
868136	Lazy Motion Tailpiece for Rim Cylinder				25.80/ea
867454	Sargent RC Tailpiece (7 Line Lever)				25.80/ea
867455	Sargent RC Tailpiece (10 Line Lever)				25.80/ea
867456	Sargent RC Tailpiece (11 Line Lever)				23.10/ea

Positive Stop
Code Machine
PS6000T



Pin Kits & Tools

Model#	Description	Price
PK-1	Pin Kit No.1 Full-Size Standard Kit for Twin	1,606.00
PK-IC	Pin Kit-Interchangeable Core Upgrade	1,505.00
PK-MM	Micro Mini Pin Kit	352.00
PK-CAM	PK Cam Lock Upgrade	251.00
MPK	Master Pinning Kit Twin & IC	2,809.00
869018	Twin Series Cutter Wheel for HPC Code Max CM90Z/.032"	995.00
869017	Twin Series Framon Cutter Wheel	856.00
867056	Cutter Wheel for PS-7000R	1,157.00
KXASDC	Depth Cam for KX-1 ASSA	326.00
KXASSC	Space Cam for KX-1 ASSA	326.00
KXAS01	Cam Set for KX-1	696.00
KXAS02	Cam Set Plus Vise	1,176.00
KXAS03	Cam Set Plus Cutter	1,497.00
KXAS04	Cam Set (Cutter Vise)	2,033.00
F2SH050A	ASSA Vise for PS-6000T, KX-1, FRA2	535.00
807718	ASSA Lock Spray Lubricant	38.40
816296	ASSA Lock Spray Cleaner/De-Icer	38.40
PS-6000T	Positive Stop Code Key Machine	11,749.00
907200	PK-1 Pin Kit Box Only	355.00
907205	PK-IC Pin Kit Box Only	366.00
907206	MPK Pin Kit Box Only	485.00
907207	Micro Mini Pin Kit Box Only	162.00
907208	Pin Kit Cam Lock Upgrade Box Only	162.00
907009	Clear Deadbolt Mounting Ring	38.70
SGTRCTOOL	Shearing Tool for Sargent style Interchangeable Core	733.00
CRRCTOOL	Shearing Tool for Corbin Russwin style Interchangeable Core	733.00
KD-98	ASSA Key Gauge	70.60
907044	ASSA Plug Follower	10.90
907046	ASSA Screwdriver	30.60
900800	SFIC Ejector Tool	69.60
STAMPING	Key Stamping/Serialization (Any stamping other than keyset or registry ID)	7.92
DND	DO NOT DUPLICATE Key Stamping	7.92
STMP-CORE	Concealed IC Stamping (Other than SFIC)	13.20
MKC	Master Key Upcharge	29.80
KBC	Key Blank Credit	-6.31
907060	ASSA Pinning Mat	40.00

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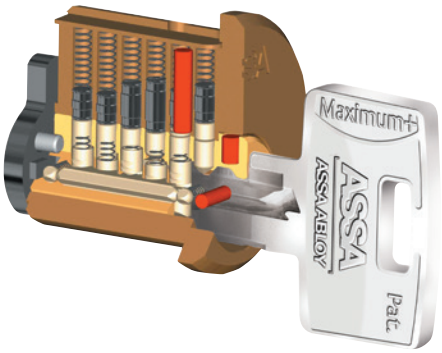
Care & Maintenance for ASSA Cylinders & Keys



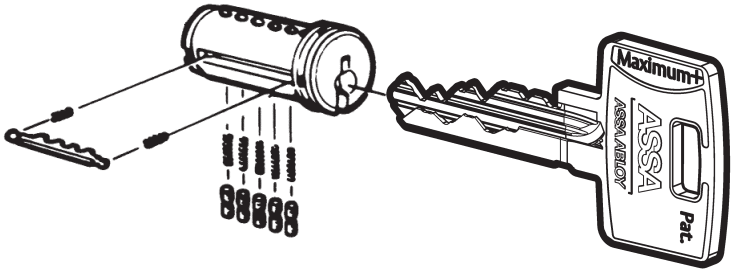
ASSA products are the highest quality cylinder products on the market today. The following information for maintaining proper condition of your ASSA cylinders and keys will insure the best performance for you and your clients.

Make sure that all key cutting equipment is properly calibrated in accordance to ASSA manufacturer specification. This is the first consideration in the proper performance of ASSA cylinders. Regularly inspect keys in use and replace any keys that show physical wear immediately.

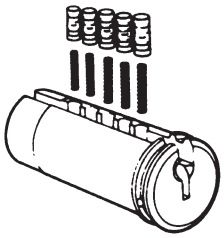
ASSA cylinders are mechanical devices and like any mechanical device they need regular preventive maintenance. At the time of installation cylinders must be lubricated with ASSA approved lubricant. ASSA recommends part #807718-ASSA Lock Spray Lubricant. Wipe off any excess lubricant on exposed surfaces. Cleaning and lubricating the lock mechanism that the ASSA cylinder is being installed into is important as well. ASSA cylinders should be lubricated at least twice a year as normal maintenance.

- **Do not use graphite or silicone lubricants. Use only ASSA approved lubricants.**
- **Do not expose ASSA cylinders to chemical wash.**
- **Do not paint any cylinder surfaces.**

Do not over lubricate ASSA cylinders. If you suspect cylinder has been over lubricated or suspect excessive dirt or other particles or debris, thoroughly flush with ASSA cleaner de-icer or use an alcohol base electrical contact cleaner that leaves no residue. Let dry or dry with compressed air then re-lubricate with ASSA approved lubricant.

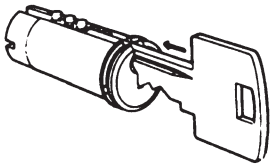


Basic Cylinder Assembly



Step One. Invert the cylinder plug and place the side pin springs in the side pin holes. Insert the side pins.

NOTE! The side pins are all identical. It is imperative that the springs locate correctly or the cylinder will malfunction.

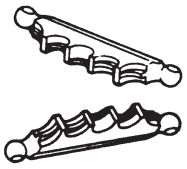


Step Two. With the cylinder still inverted, insert a key with the correct side code to hold the side pins in place.

Step Three. Position the short sidebar springs at each end of the sidebar slot.

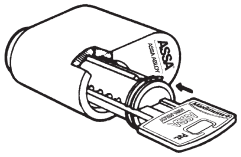
NOTE! It is imperative that the springs are located in the prepared holes.

Step Four. Lay the sidebar in the slot so that the fences correspond to the opening gates in the side pins. It should now be possible to press the sidebar down in its slot so that it is flush with the outer face of the cylinder plug.



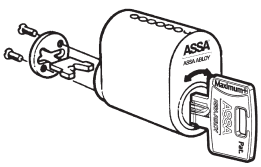
NOTE! The key should remain in the cylinder plug during this operation.

Step Five. Place the cylinder plug in the cylinder house. If the sidebar is fitted correctly, the cylinder plug can now be turned within the shell. Hold the cylinder plug in place when withdrawing the key.



Step Six. Fit the tailpiece and secure.

Note: Cylinder plug diameter is .510".



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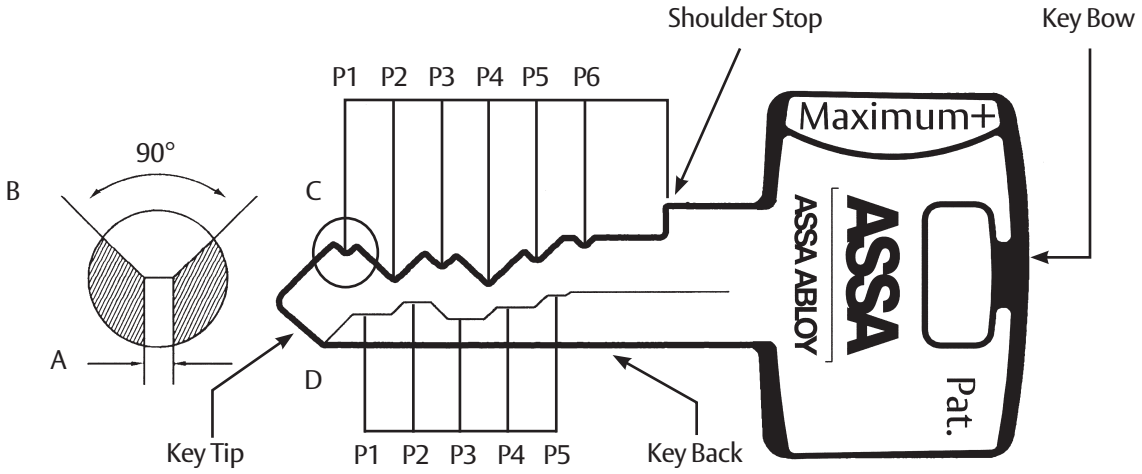


A. 0.8mm (0.032") wide flat base.

B. 90° cutting angle.

C. The six top cut positions are counted from tip to bow at nine depths of cut.

D. The five side cut positions are counted from tip to bow at five depths of cut and are restricted to factory production only.

The chart below only references top cut spacing.

Measurement	P1	P2	P3	P4	P5	P6
mm	25.7	21.9	18.1	14.3	10.5	6.7
Inch	1.0118	0.8622	0.7126	0.5630	0.4134	0.2638
Tolerance	+0.02 / -0.03mm +0.0008 / -0.0012					

General Rules

The cut depth should be measured from the back of the key to the bottom of the cut.

Spacing is calculated from the shoulder of the key.

The key combinations are cut from the tip of the key towards the bow.

The system code must be cut at 90º cutting angle and a 0.8mm (0.032") wide flat base.

No.1 cut is deepest cut, no. 9 is shallowest.

Maximum Adjacent Cut Specification (MACS) = 5.

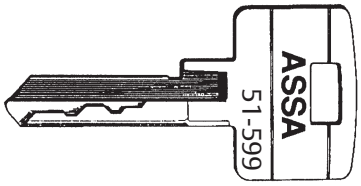
Example: 1 cut adjacent to 6 cut is acceptable.
1 cut adjacent to 7, 8, or 9 cut NOT acceptable.

Depths: Key Combinations		
Normal depths for key combinations		
Depths:	mm	Inch
N0. 1	4.03	0.1587
N0. 2	4.63	0.1823
N0. 3	5.23	0.2059
N0. 4	5.83	0.2295
N0. 5	6.43	0.2531
N0. 6	7.03	0.2768
N0. 7	7.63	0.3004
N0. 8	8.23	0.3240
N0. 9	8.83	0.3476
Measure from back of key to bottom of cut		
Tolerance	+ 0.00 - 0.04mm	
	+0.00" - .0016"	

Ordering:

When ordering key blanks, the profile and geographically assigned code must be stated.

A. Side bar Code is cut at ASSA Factory only. Key blanks are provided as shown.

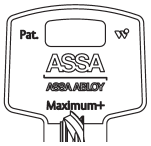


B. Side bar code/profile can be identified on key bow. Example: for Twin 6000 Series, 51-599; there are 5 different profiles in the ASSA Twin 6000 Series which are; 50, 51, 52, 61, and 62.

Key Stamping:

All new key blanks and cut keys will be stamped as original from factory in accordance with assigned keyway.

Maximum+
Profile 0A7



Maximum+ SFIC
Profile 0B7

Twin Maximum
Profile 0M7

Twin Pro
Profile 0P4

Twin Exclusive
Profile 851

Twin 6000
Profiles
50, 51, 52, 61, 62

Twin V-10
Profile 95

Key Cutting:

Key combination can be cut on many code machines and duplicating machines. Code cutting machines historically, produce better keys than Key-duplicating machines. The ASSA key is a quality key. ASSA recommends quality cutters. ASSA supplies cutting wheels for the HPC 1200 CM and Code Max code machine as well as cutters, vises, and cams for Framon KX1.

ASSA Recommended Code Machines:

- ASSA PS-6000T (Made by Framon)
- Any Framon Machine designed to cut ASSA Twin and Max+ Series keys
- Silca Ultra Code 199
- HPC Code Max
- ITL 9700 Series Code Machine

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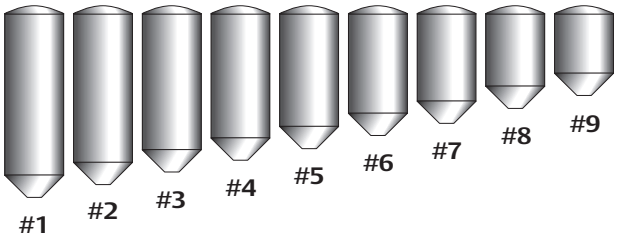
ASSA Twin Series Pinning

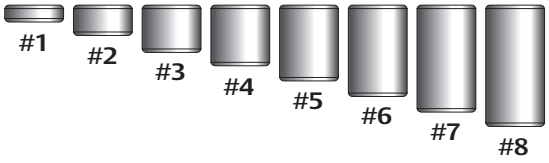
The same bottom and master pins used in all ASSA Twin Series, Maximum+, and 600 Series product are made of high-quality nickel silver. The deepest cut on a Twin Series and Maximum+ key is the #1 length and the shallowest is the #9 length. This makes the #1 pin the longest and the #9 pin the shortest. All pins are 0.114" in diameter.

Bottom Pin Part Numbers & Lengths		
Pin Size	Part Number	Length
#1	867078	0.3503"
#2	867079	0.3267"
#3	867080	0.3031"
#4	867081	0.2795"
#5	867082	0.2559"
#6	867083	0.2322"
#7	867084	0.2086"
#8	867085	0.1850"
#9	867086	0.1614"



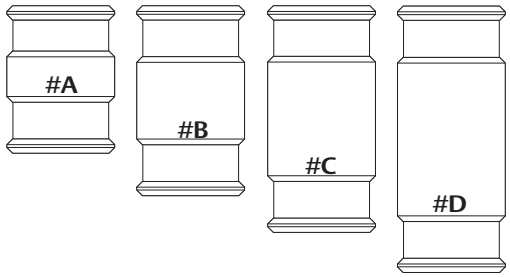
Pins for ASSA cylinders do not taper to a ball nose radius like most pin tumbler pins, but have a flat tip that is 0.020" in diameter. This provides more reliable contact between tumbler and key

Master Pin Part Numbers & Lengths		
Pin Size	Part Number	Length
#1	867070	0.0236"
#2	867071	0.0472"
#3	867072	0.0708"
#4	867073	0.0944"
#5	867074	0.1181"
#6	867075	0.1417"
#7	867076	0.1652"
#8	867077	0.1889"

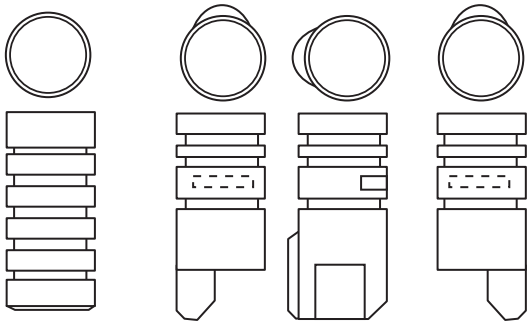


ASSA Twin master pins are engineered for single step \masterkeying, creating the largest master key capabilities of any pin tumbler lock in production.

By numbering from the smallest to the largest, pinning may easily be calculated by subtracting the master pin number from the bottom pin number. (i.e. 7 - 3 = 4. A #3 master pin with a #7 bottom pin is the same physical length as a #4 bottom pin alone.) If the master pin (or pins) leave a remainder of less than one when subtracted from the bottom pin, the overall stack height of the chamber is wrong.



Top Pins/Spool Drivers	
Height	Width
A – 4 mm/0.15 inch	2.9 mm/0.114 inch
B – 5 mm/0.19 inch	2.9 mm/0.114 inch
C – 6 mm/0.23 inch	2.9 mm/0.114 inch
D – 7 mm/0.27 inch	2.9 mm/0.114 inch



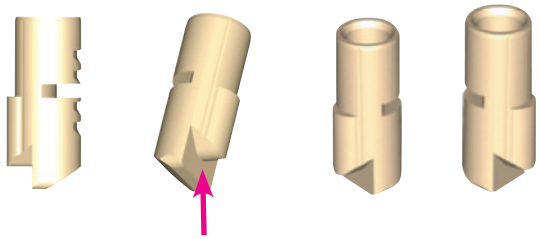
Twin 6000 & Twin Exclusive Side Pin

Left hand & right hand Twin V-10 side pins flanking a side view.

Top Pin Part Numbers & Uses		
Driver	Part Number	Stack Height
A	807261	1 or 2
B	807262	3 or 4
C	807263	5 or 6
D	807264	7 or 8 or 9

Example: When using a #4 bottom pin, a B top pin (driver) is required for proper stack height in the chamber. A #7 bottom pin and a #3 master pin would also require a B top pin.

KIK & KIL cylinders measuring 1.020" in the CH dimension listed in the product section will use a modified pin stack. This is done by calculating the required top pin and then using one size smaller in the cylinder, i.e. using an A top pin instead of a B in the above example. If the shortest top pin (A) needs to be shortened, a #5 master pin should be substituted. The #5 master pin is one increment step shorter than the A top pin.



Twin Pro Side pin drawing on the left shows the back of the Twin Pro side pin and it's lift point.

Twin Maximum and Maximum+ side pins are available in left or right hand similar to V-10.

Like the Twin Pro side pin, the Twin Maximum and Maximum+ side pins are lifted at the bottom of the centering tab.

There are six different types of side pins used in ASSA High Security Twin Series and Maximum+ cylinders. The Twin 6000 and Twin Exclusive use one type of side pin with two false grooves above and below the opening gate.

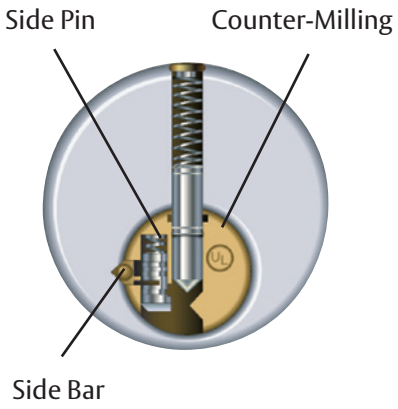
Twin Series and Maximum+ Series side pins are lifted by the side cut on the key blank to a proper height to match the fence pattern on the geographically controlled side bar.

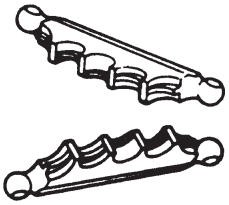
There are two different Twin V-10 side pins, left or right hand. Four false side grooves are provided for pick resistance. The Twin V-10 side pin has an eccentric shape and must be properly positioned before insertion in the side pin chamber of the plug. Left and right hand side pins offer the flexibility to utilize multiplexing capabilities.

The Twin Pro side pin is similar to the design of the Twin V-10 but there is only one type for all five side pin positions. This side pin design is lifted at the back of the pin rather than the bottom surface.

Twin Maximum and Maximum+ side pins are available in left and right hand offering the flexibility of multiplexing similar to Twin V-10. The ASSA Twin Maximum and Maximum+ series cylinder is the mechanical platform that is integrated by CLIQ and CLIQ Remote electromechanical keys and cylinders.

Side Bar Operation





There are five side pins in every ASSA Twin and Maximum+ Series cylinder. In the Twin 6000 and Twin Exclusive, there is only the one type of side pin and for the Twin V-10 Series there are left-hand and right-hand side pins. ASSA Twin Pro has yet another single type of side pin. For Twin Maximum and Maximum+ there are left- and right-hand side pins similar to Twin V-10 for multiplexing capability

The actual side code combination is machined into the side bar itself and again on the side cut of the Twin Series and Maximum+ key.

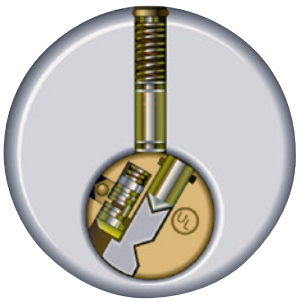
The purpose of the side pins is to align the opening gate by the side-cut milled on the side of the key that will align the side pin with the coded side bar fence. If they match, then the side bar will be unlocked.

With five depths in each position and five positions on each side bar, there are 3,125 different side codes possible. ASSA has 2,805 available. ASSA Twin side codes are assigned to dealers, distributors and end-users on a restricted geographical basis.

ASSA refers to the sidecode as an “intelligent” keyway that is unique to the market area of each dealer and end-user. The sidecode assures ultimate key control while the technicians have total control of the keying and pinning.

ASSA sidebars are reversible. Each sidebar is assigned with two matching key blanks, the obverse and reverse side codes. Twin V-10, Twin Maximum, and Maximum+ operations are capable of additional key blanks, and these capabilities are assigned only by and from the factory.

Note: Plug diameter is .510”.



ASSA Master Keying Capability

ASSA offers single step progression master key systems. Unlike most standard progression systems that are restricted to two step progression, industry standards require a minimum of .023" from one step increments to the next for all lock manufacturers in order to prevent unwanted interchange in master key systems. Considering ASSA's high tolerance and approximate 0.024" step increments, its nine depths of cut in six positions offers considerably more theoretic and usable combinations than any other lock manufacturer on the market today.

Figure 1

TMK	2	5	8	3	6	9
	4	7	0	5	8	1
K	6	9	2	7	0	3
B	8	1	4	9	2	5
A	0	3	6	1	4	7
	64 pages			64 changes per page		

Figure 1 shows a standard two step progression chart. If the last three columns are progressed, the theoretic total change keys under a single master key would be 64 change keys on a page. If the first three columns were then progressed, there would be 64 pages for a total of 4,096 theoretic change keys under a single master key. If we were to consider that there is a MACS of 7, this system would yield approximately 3,000 usable change key combinations.

Figure 2

TMK	1	2	6	9	5	8
	2	3	7	1	6	9
	3	4	8	2	7	1
K	4	5	9	3	8	2
B	5	6	1	4	9	3
A	6	7	2	5	1	4
	7	8	3	6	2	5
	8	9	4	7	3	6
	9	1	5	8	4	7

Figure 2 shows ASSA's single step progression chart. If we were to progress only the last two columns, we would get a theoretic total of 64 change keys on a page. If we then progressed the two center columns, we would then get a theoretic total of 64 pages. So you see, we have already matched the total 4,096 theoretic change keys in the first exercise from Figure 1, but only four of our six chambers have been progressed. Now let's progress the first two columns to get 64 volumes, of 64 pages, of 64 changes per page. This gives us a theoretic total of 262,144 change keys under a single master key. With a MACS of 5 we typically lose about one half of our theoretic total, still yielding about 130,000 and in some cases as many as 160,000 usable change key combinations under a single master key, on each of our 1,402 available reversible sidebars.

Calculating Pin Stacks

Always choose the bottom pin, in a given chamber, by comparing the cuts in that chamber. Always select the highest number for the bottom pin since that would be the shortest possible pin. Next, subtract the remaining cut to obtain the master pin needed. The driver pins are calculated by subtracting the master pins from the bottom pins, chamber by chamber. In the case of stacked master pins always total the master pins then subtract that number from the bottom pin.

Example:

AA - 495599	AB - 495499	AC - 495699
AA1 - 495524	AB1 - 495464	AC1 - 495625
AA2 - 495536	AB2 - 495438	AC2 - 495644
AA3 - 495562	AB3 - 495426	AC3 - 495637

The following would describe typical pinning arrangements for bottom, master and driver pins from our sample systems.

495799	"AA" Key	495799	"GMK" Key
495327	"1AA" Key	495599	"AA" Key
		495536	"AA2" Key

495799	Bottom Pins	495799	Bottom Pin
- - -472	Master Pins	- - -263	Master Pins
BDCBAD	Top Pins	BDCCBC	Top Pins

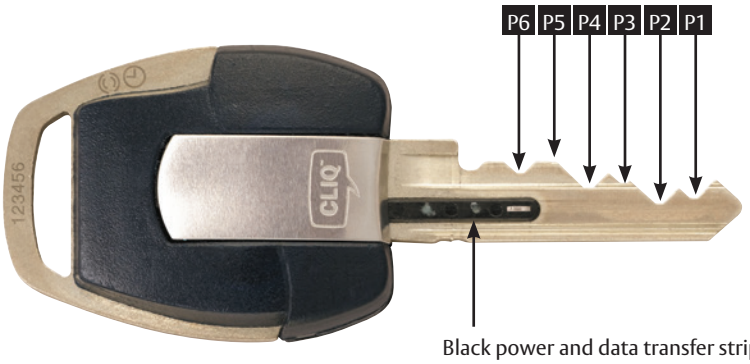
ASSA C-4 CLIQ & CLIQ Remote

The ASSA CLIQ technology is designed with the advantages of both electronic access control and mechanical key systems making it suitable for organizations spread over wide geographic areas. The ASSA CLIQ features time schedule access control, the ability to grant or deny authorizations electronically and provide an audit trail. This unique technology provides a high security key and cylinder combination requiring no power source of any kind at the opening.

For more detailed information please see pages 15 & 16 or visit our website **www.assalock.com** and select the "Products" tab.

Considerations for Master Key System design

There is a black power and data transfer strip inserted alongside the CLIQ electromechanical keys as part of the electronics. When designing a masterkey system where CLIQ will be used there is a cut depth restriction in the sixth position. A number one or two depth of cut can not be used so that the black power and data strip is not damaged when cutting the key. Clamping the key into a the vice jaw of a key duplicating or code cutting machine will also damage the black power and data transfer strip. CLIQ keys, are always cut at the factory.



Black power and data transfer strip

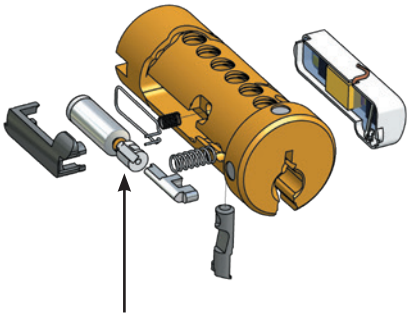
Servicing ASSA CLIQ cylinders

The ASSA CLIQ electronic components, Motor and actuator are sealed in the cylinder plug and are not field serviceable. All ASSA CLIQ cylinders are keyed at the factory.

Lubrication

The only approved lubricant is the ASSA Lock Spray part number 807718.

The ASSA Lock Spray is conductive and the formula resists collection of dust and dirt. Any other lubricant used can mask the contact read for power and data transfer.



A motor drives the electromechanical blocking element that locks the side rail.

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ASSA Large Format Interchangeable Core, ASSA Yale & ASSA Corbin Russwin LFIC

With the discontinuation of the ASSA removable core (RC) product, in 1996 ASSA introduced a new Large Format Interchangeable core (LFIC) product which may be mounted in the same figure eight housing as the old product.

The new LFIC product is designed to be compatible with systems written for the old product and may even safely be supplied as expansion in some key systems not originally designed with the RC or LFIC product in mind.

VALUES

C	= Control Bitting	CK	= Change Key Bitting
BP	= Bottom Pin	MK	= Master Key Bitting
MP	= Master Pin		
BUP	= Build-up Pin		
TP	= Top Pin		
Stack	= 20		

This LFIC has a control "sleeve" in the first four pin chambers and pinning for those chambers is calculated using specific formulas to determine the two top components of the pin stack. The TOP PIN (TP) is determined from the control KEY combination, simply add one to the bitting of the control key in the first four positions to determine the size of the top pin for the corresponding pin chamber.

TP = C + 1

The sizes of the BOTTOM PIN (BP) and MASTER PIN (MP) are determined using the normal method. The only other component in the stack is the buildup pin and the following formula will give you the correct size to use in the pin chamber.

Master Keyed		**Non-Master Keyed**	
BP	= MAX (CK/MK)	BP	= CK
MP	= ABS (CK-MK)	MP	= 0
TP	= C + 1	TP	= C + 1
BUP	= 20 - {TP + [10 - (BP-MP)]}	BUP	= 20 - [TP + (10-CK)]

If the particular chamber is cross keyed, it will have more than one master pin in it and the formula should be modified to reflect that condition. The pinning for the last two pin chambers should be calculated in the same manner used for ASSA non-IC products.

Using the formula isn't any more difficult than adding and subtracting. The example here is for a master keyed LFIC cylinder, and this formula will apply to the first four pin chambers only. As with all formulas, it should be worked from the inside out. Our keys for this cylinder are:

CTRL	216499
AA	495799
1AA	642799

The Top Pin is calculated as CTRL Bitting + 1, in this case.

Pin Chamber 1	Pin Chamber 2	Pin Chamber 3	Pin Chamber 4
CTRL Bitting 2 + 1 = 3 TP	CTRL Bitting 1 + 1 = 2 TP	CTRL Bitting 6 + 1 = 7 TP	CTRL Bitting 4 + 1 = 5

The only pin size we don't now know is the BUP (Build-up Pin). The formula will tell us that.

BUP = 20 - { TP +[10 - (BP - MP)]}

Pin Chamber 1	Pin Chamber 2	Pin Chamber 3	Pin Chamber 4
BUP=20-{3+[10-(6-2)]}	BUP=20-{2+[10-(9-5)]}	BUP=20-{7+[10-(5-3)]}	BUP=20-{5+[10-(7-0)]}
BUP=20-{3+[10-4)]}	BUP=20-{2+[10-4)]}	BUP=20-{7+[10-2)]}	BUP=20-{5+[10-7]}
BUP=20-{3+6}	BUP=20-{2+6}	BUP=20-{7+8}	BUP=20-{5+3}
BUP=20-9	BUP=20-8	BUP=20-15	BUP=20-8
BUP=11	BUP=12	BUP=5	BUP=12

From this formula we know that the pinning of the cylinder would be:

TP	**3**	**2**	**7**	**5**	**D**	**D**
BUP	**11**	**12**	**5**	**12**	**-**	**-**
MP	**2**	**5**	**3**	**-**	**-**	**-**
BP	**6**	**9**	**5**	**7**	**9**	**9**

The build-up pin may be any size from 1 up to 17. As part of the product release we have created 9 new master pins for use as build-up pins. They are numbered 9 through 17. In conjunction with this product release ASSA has produced nine new top pins 2 through 10. These new top pins have a recess drilled into the top of them to accept the new, smaller diameter top pin spring which must be used in the first four control sleeve chambers of the cylinder.

If you are generating your own key systems, there are some new combination selection rules which should be followed for the TMK and the CTRL (Control Key).

1) The TMK should have a number 9 depth as one of the first four cut positions and the corresponding position in the CTRL key should be a number 1 depth.
2) The last two cut depths of the CTRL key should be the same as the TMK.

With the exception of the preceding rules, the other cut positions in the CTRL key may be any depth except the TMK depth. The combination used for the CTRL key should be removed from the key system if it is generated as part of the progression.

ASSA Sargent Large Format Interchangeable Core

Follow the same formula and rules as specified for the ASSA Large Format Interchangeable & Yale & Corbin Russwin LFIC but change the stack to 19.

IMPORTANT: If the build-up pin (BUP) is equal to 0 no build-up pin is used.

CTRL	216969
AA	495769
1AA	642169

The Top Pin is calculated as CTRL Bitting + 1, in this case.

Pin Chamber 1	**Pin Chamber 2**	**Pin Chamber 3**	**Pin Chamber 4**
CTRL Bitting 2 + 1 = 3 TP	CTRL Bitting 1 + 1 = 2 TP	CTRL Bitting 6 + 1 = 7 TP	CTRL Bitting 9 + 1 = 10
Pin Chamber 1	**Pin Chamber 2**	**Pin Chamber 3**	**Pin Chamber 4**
TP = 2 + 1 = 3	TP = 1 + 1 = 2	TP = 6 + 1 = 7	TP = 9 + 1 = 10

The only pin size we don't now know is the BUP (Build-up Pin). The formula will tell us that.

BUP = 19 - { TP +[10 - (BP - MP)]}

Pin Chamber 1	**Pin Chamber 2**	**Pin Chamber 3**	**Pin Chamber 4**
BUP=19-{3+[10-(6-2)]}	BUP=19-{2+[10-(9-5)]}	BUP=19-{7+[10-(5-3)]}	BUP=19-{10+[10-(7-6)]}
BUP=19-{3+[10-4)]}	BUP=19-{2+[10-4)]}	BUP=19-{7+[10-2)]}	BUP=19-{10+[10-1]}
BUP=19-{3+6}	BUP=19-{2+6}	BUP=19-{7+8}	BUP=19-{10+9}
BUP=19-9	BUP=19-8	BUP=19-15	BUP=19-19
BUP=10	BUP=11	BUP=4	BUP=0 (no BUP is used in this chamber)

From this formula we know that the pinning of the cylinder would be:

TP	**3**	**2**	**7**	**10**	**C**	**D**
BUP	**10**	**11**	**4**	**-**	**-**	**-**
MP	**2**	**5**	**3**	**6**	**-**	**-**
BP	**6**	**9**	**5**	**7**	**6**	**9**

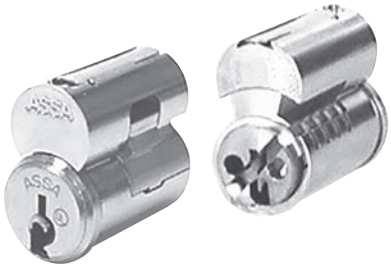
The build-up pin may be any size from 1 up to 17. As part of the product release we have created 9 new master pins for use as build-up pins. They are numbered 9 through 17. In conjunction with this product release ASSA has produced nine new top pins 2 through 10. These new top pins have a recess drilled into the top of them to accept the new, smaller diameter driver spring which must be used in the first four control sleeve chambers of the cylinder.

If you are generating your own key systems, there are some new combination selection rules which should be followed for the TMK and the CTRL (Control Key).

1) The TMK should have a number 9 depth as one of the first four cut positions and the corresponding position in the CTRL key should be a number 1 depth.
2) The last two cut depths of the CTRL key should be the same as the TMK.

With the exception of the preceding rules, the other cut positions in the CTRL key may be any depth except the TMK depth. The combination used for the CTRL key should be removed from the key system if it is generated as part of the progression.

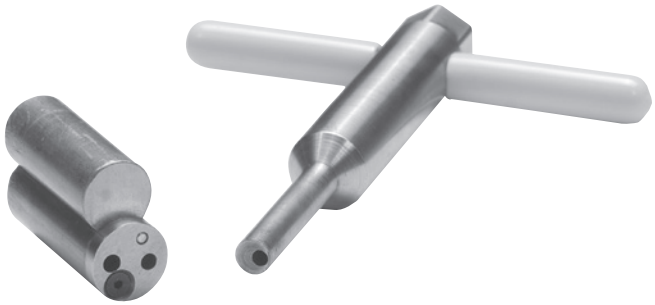
ASSA Sheering Tool for Sargent and Corbin Russwin LFIC Original Housings



Sargent 6 Pin LFIC

Corbin Russwin 6 Pin LFIC

The ASSA Sargent & Corbin Russwin retrofit LFIC cores require a shearing tool to cut the drive pin in existing Sargent or Corbin Russwin housings that is in line with the ASSA side bar. This simple and effective hand tool is inserted fully into the figure 8 opening of a Sargent or Corbin Russwin LFIC housing over both drive pins. The T handle is inserted into the large opening on the left and turned shearing the left drive pin to the proper length.



Model #	Description
CRRCTOOL	Shearing Tool for Corbin Russwin style IC
SGTRCTOOL	Shearing Tool for Sargent style IC

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ASSA Schlage Removable Core

The Schlage removable core has a control sleeve in the first cut position at the ASSA key tip

Only the number 8 or 9 depth of cut can be used for the operating keys

The control key can be cut to the 1, 2, 3 or 4 depth of cut only, in the first position at the ASSA key tip.

A build-up pin hollowed top pin and an ASSA IC top pin spring is used in the first chamber position to engage the control sleeve and drive blocking pin to lock or unlock the core in the Schlage original housing.

No master pinning is allowed in the control chamber position. Positions 2 through 6 can be used for normal ASSA master pinning.

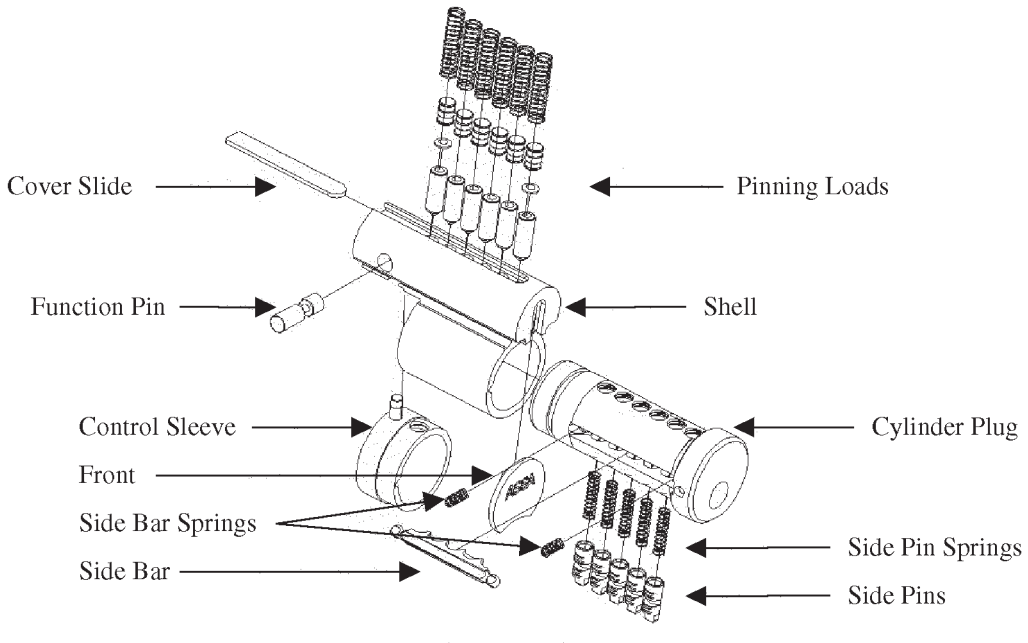
Calculating the loads is as follows:

The Top Pin is equal to the control cut plus 6

TP = CTRL + 6

The build-up pin is equal to the operating cut minus the control cut plus 2

BUP = 2+ (Operating Cut - CTRL Cut)



The chart below shows pinning combinations available in the first pin chamber position.

Schlage Removable Core pinning combinations for 1st position.			
CTRL Cut	**Operating Cut**	**Build-up Pin**	**Top Pin**
1	8	9	7
1	9	10	7
2	8	8	8
2	9	9	8
3	8	7	9
3	9	8	9
4	8	6	10
4	9	7	10
Build-up pins and hollowed top pins can be found in the ASSA PK-IC upgrade pinning kit, MPK pinning kit or purchased separately.			

Note: Positions 2 through 6 use the ASSA modified pin stacks by downsizing top pins by one increment.

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ASSA Small Format Interchangeable Core

The pinning format is not similar to the traditional Best A2 or A4 specification. The pinning format is unique to ASSA SFIC.

Only 6 pin cores available.

The depth and spacing is the same as all ASSA Twin keys, except for the #9 depth cut is not available.
Direction of cuts is from tip to bow.
Single step progression is used.
MACS = 5

General rules:
6 pin chambers
8 heights, 1 to 8
In any of the pin chambers 1-6 the keys need to be different between control key and operating keys in at least one position.
In at least one pin chamber the control key must be lower than any operating key.
The control key can be a maximum of 5 increments higher than the operating key in any pin chamber.

Bottom Pins = calculated per usual
Master Pins = calculated per usual
Build Up Pins = [bottom pin] – [all master pins] – [control key code] + 5 (0=No build up pin)
Driver (Top) Pins = [control key code] + 1
Stack height calculation = top pin + master pin(s) + BUP - bottom pin = 6 (always)

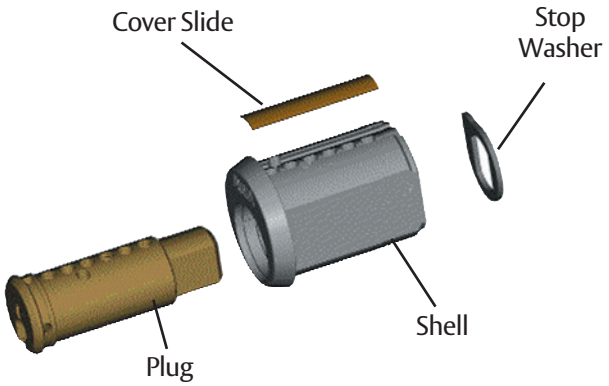
Example:

Control key	4	6	4	8	7	6
Master key	3	2	6	5	2	4
Change key	1	2	6	8	5	8
TP	5	7	5	9	8	7
BUP	2	1	7	2	0	3
MP	2	0	0	3	3	4
BP	3	2	6	8	5	8
BP	3	2	6	8	5	8
MP	-2	0	0	-3	-3	-4
	1	2	6	5	2	4
CB (Control Bitting)	-4	-6	-4	-8	-7	-6
	-3	-4	2	-3	-5	-2
Plus 5	5	5	5	5	5	5
BUP	2	1	7	2	0	3

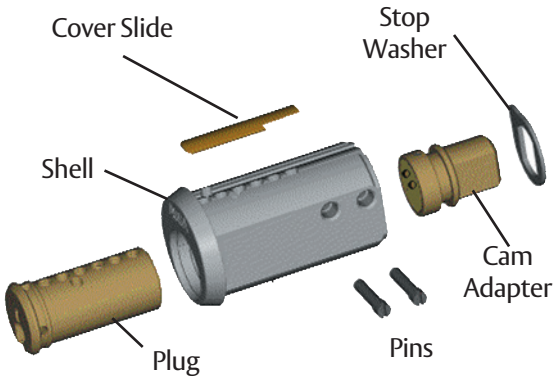
Stack height calculation: top pin + master pin(s) + BUP – bottom pin = 6 (always)

TP	5	7	5	9	8	7
BUP	2	1	7	2	0	3
MP	2	0	0	3	3	4
BP	-3	-2	-6	-8	-5	-8
Stack =	6	6	6	6	6	6

Servicing ASSA Cam Locks



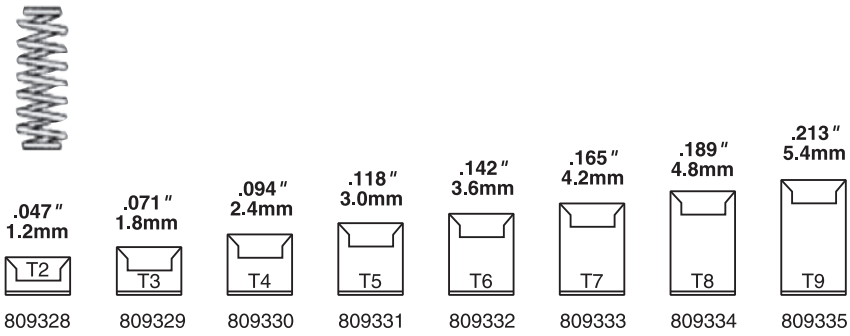
Key Retained

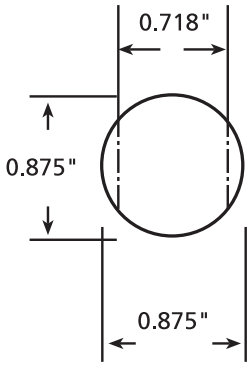


Non-Key Retained

ASSA cam locks are serviced with standard Twin bottom and master pins. The tops pins, or drivers and springs used in ASSA cam locks are the hollowed top pins used in the ASSA Interchangeable Core product T-2 through T-9. The top pin used in each chamber is equal to the total operating stack. A #7 bottom pin uses a T-7 top pin. For master keying a #5 bottom pin – a #3 master pin equals a total operating stack of 2. The T-2 top pin is used. Due to stack height restrictions the #1 depth of cut cannot be used in ASSA cam locks.

Top Pin #2 – 809328
Top Pin #3 – 809329
Top Pin #4 – 809330
Top Pin #5 – 809331
Top Pin #6 – 809332
Top Pin #7 – 809333
Top Pin #8 – 809334
Top Pin #9 – 809335
IC Core Chamber Spring – 809340





For metal installation use 7/8" double D punch.

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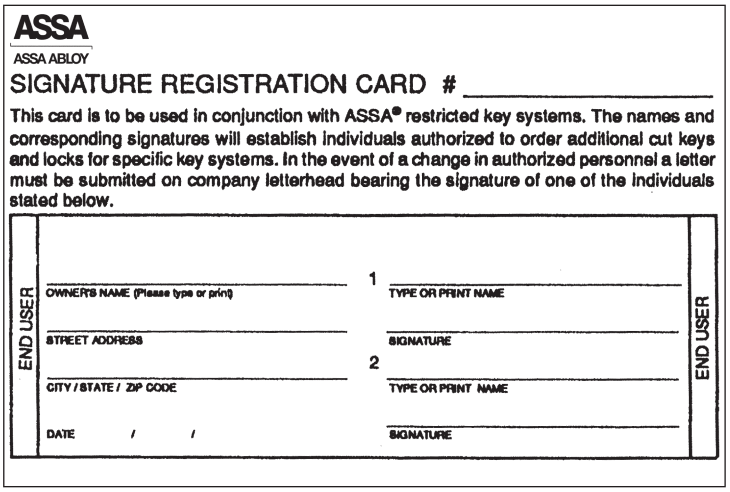
Security Authorization Procedure

- Locksmith is encouraged to use the ASSA-343 form card shown below to register their customers signatures.
- Customer would then be required to sign an ASSA-312 form in order to receive additional cut keys for subsequent orders.
- Locksmith should check signature(s) on the ASSA-343 form registration card and verify that it matches the signature on the ASSA-312 form.
- Personal identification should also be requested for additional customer protection.



ASSA
ASSA ABLOY

SIGNATURE REGISTRATION CARD # _____

This card is to be used in conjunction with ASSA® restricted key systems. The names and corresponding signatures will establish individuals authorized to order additional cut keys and locks for specific key systems. In the event of a change in authorized personnel a letter must be submitted on company letterhead bearing the signature of one of the individuals stated below.

END USER

OWNER'S NAME (Please type or print)

STREET ADDRESS

CITY / STATE / ZIP CODE

DATE / /

1

TYPE OR PRINT NAME

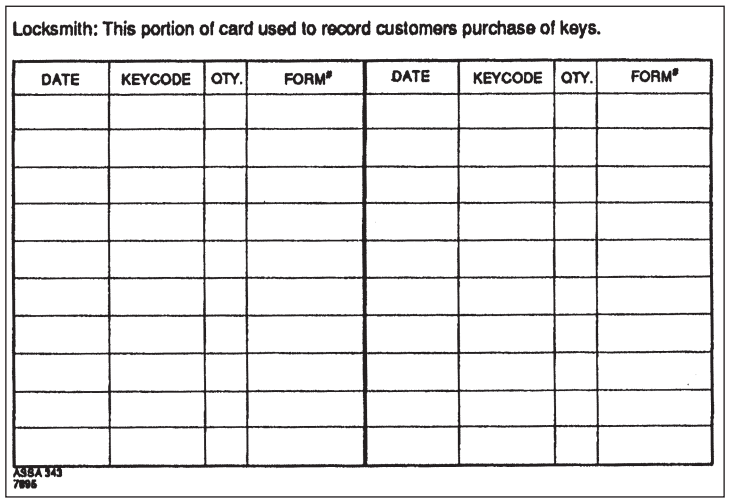
SIGNATURE

2

TYPE OR PRINT NAME

SIGNATURE

END USER



Locksmith: This portion of card used to record customers purchase of keys.

DATE	KEYCODE	QTY.	FORM#	DATE	KEYCODE	QTY.	FORM#

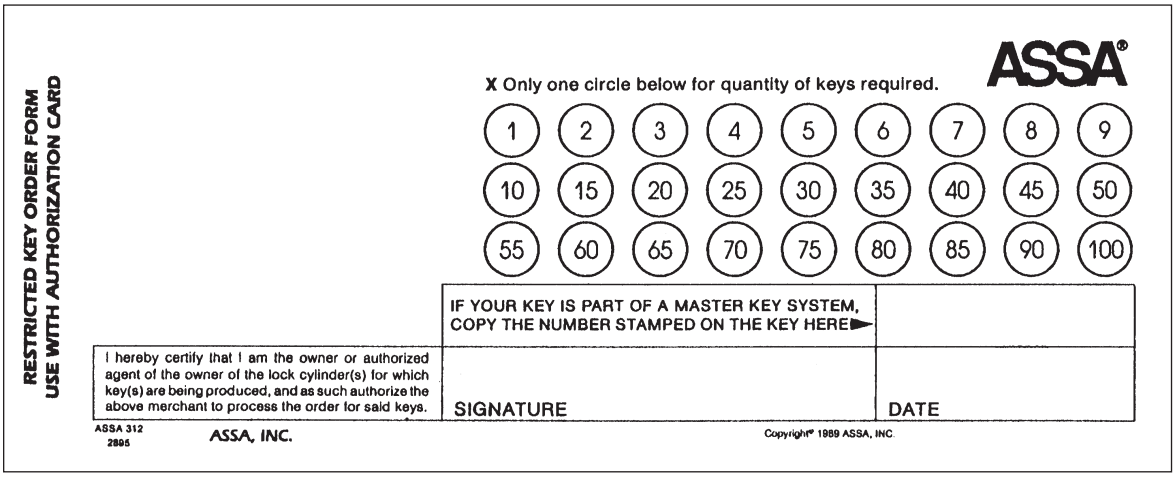
ASSA 343
7/96

	1	2	3	4	5	6
1	E	F	J	B	G	A
2	J	A	B	C	D	F
3	F	C	D	J	H	E
4	C	H	A	D	B	J
5	D	G	F	E	J	H
6	B	D	E	H	A	G
7	H	B	G	F	C	D
8	G	J	H	A	E	C
9	A	E	C	G	F	B

ASSA Blind Code Key Decoder.

ASSA-312 FORM

- The ASSA-312 form may be used to verify customer signatures at the time of sale and issuance of cut keys.
- Customer will sign the form in the signature block portion, date the signature and copy any stamping information in the space provided.
- Locksmith will check the signature against the original ASSA-343 signature registration card to verify and authorize key cutting.
- Form number is then recorded on the back side of the ASSA-343 card.


RESTRICTED KEY ORDER FORM
USE WITH AUTHORIZATION CARD

ASSA®

X Only one circle below for quantity of keys required.

1 2 3 4 5 6 7 8 9
10 15 20 25 30 35 40 45 50
55 60 65 70 75 80 85 90 100

IF YOUR KEY IS PART OF A MASTER KEY SYSTEM, COPY THE NUMBER STAMPED ON THE KEY HERE ►

I hereby certify that I am the owner or authorized agent of the owner of the lock cylinder(s) for which key(s) are being produced, and as such authorize the above merchant to process the order for said keys.

SIGNATURE

DATE

ASSA 312
2895

ASSA, INC.

ATSI Lock Supply
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The New ASSA Maximum+ SFIC:

"It's Not Your Grandpa's SFIC"

-By William M. Lynk, CML, CPS, ICML, CMIL, CAI, M.Ed.

F1. ASSA SFIC

SFICs (Small Format Interchangeable Cores) were created over 100 years ago. But, the new **ASSA Maximum+ SFIC** is big, and it's here! Unusual in its specs, it can offer over 117,000 bittings in a single 6-pin system, far more than any 7-pin SFIC A2 or A4 system out there. Even though the 3-Step Pin Stack Calculations are completely different from traditional SFIC systems, with the correct insight, it can still be easy-peasy. So, let's look at the unusual twists of this revolutionary A5 System and the ways it can be used effectively, not to mention and how simple it all is…IF you know how.

Historical Perspective: BEST and ASSA

BEST: The BEST system was developed/created over 100 years ago. Frank E. Best first conceived the concept of a self-contained locking cylinder that was key removable and easily integrated into specialized locking hardware. Thus, in 1912 the concept of an interchangeable core locking mechanism was born. This was an exciting time when radio and automobiles were first appearing, and Frank Best made his mark, as would be clearly seen decades later, and continuing into the next century.

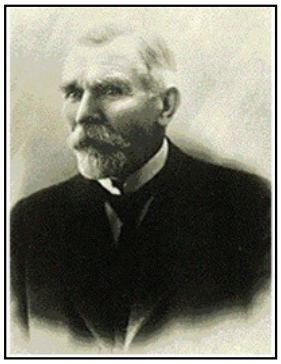
F2. Frank Best

The notion that hardware such as mortise locks, deadbolt locks, key-in-knob locksets, cabinet locks, mailbox locks, padlocks, etc., that were previously a connected feature of the complete locking hardware package could now remain in place as the 'core' could be removed by a special key, was certainly a revolutionary idea. This type of lock could employ change keys and/or master keys to operate the locking unit, similar to other traditional lock cylinders on the market. However, this small, self-contained figure-eight shaped cylinder could be easily removed with the use of the appropriate "control key" (often called "core key") so that another similar locking cylinder could replace the original, as desired. Frank Best finally applied for a United States patent for his unique lock in August of 1919 and two years later received the very first patent for the "interchangeable lock core."

In October of 2002 the Best family sold BEST Access Systems to the Stanley Works Corporation. Headquartered in New Britain, Connecticut, Stanley purchased all of the outstanding stock in BEST Access Systems through a cash deal for $310 million in November of 2002. BEST later moved to a dedicated distribution model instead of selling direct to end users, as it had done for its entire history. Finally, in 2017, dormakaba acquired STANLEY Security's mechanical division to form BEST Access Solutions, Inc. and added it into their portfolio of companies.

ASSA: ASSA was established in 1881 by the blacksmith August Stenman after buying a small hinge manufacturer in the town of Eskilstuna, Sweden. One day his wife embroidered a pillowslip with his name forwards and backwards – "**A**ugust **S**tenman, **S**tenman **A**ugust", and so **ASSA** became the name of the new company. By 1939, ASSA had produced its first cylinder lock and delivered its first 5-pin cylinder master key system seven years later. In 1959, ASSA introduced its first registered key systems with key control. In 1981, ASSA celebrated its 100th anniversary as a company with the release of the ASSA Twin 6000 system, a new cylinder concept utilizing the dual locking mechanisms of today's ASSA cylinders.

Starting in 1992, ASSA, Inc. shifted their sales direction from independent dealer sales to institutional, industrial, and government sales. Some of the customers who made this possible were The World Bank, The United States Supreme Court, Boeing, AT&T, Baltimore Ravens Stadium, the all too famous Twin Towers in New York City, The University of New Hampshire, Prince George's County School District, Alexandria City Public Schools, Tucson Unified Schools, and numerous other schools and federal government facilities.



F3. August Stenman

Today ASSA ABLOY is a well-known global leader in door opening solutions for end-users requiring security, safety and convenience. ASSA ABLOY operates in markets worldwide, with leading positions in much of Europe, North America and the Asia Pacific region. The Americas division manufactures and sells mechanical and electro-mechanical locks, cylinders, security doors and door frames. Some of Americas' industry leading brands include ASSA, Corbin Russwin, Medeco, Sargent and Yale. Finally, ASSA has introduced their own ASSA Maximum+ SFIC, allowing for over 117,000 bitting in a single system, and offered to locksmiths through ASSA Technical Services, Inc.

"The Facts Ma'am…only just the Facts"

F4. ASSA SFIC & Key

Those of us who watched the series "*Dragnet*" in the 1960's are aware of this phrase. So, to be true to the series, the ASSA Maximum+ SFIC is quite a unique system that touts retrofitting into any standard SFIC housing, though it is unlike its 'clones' in the fact that it uses strikingly different methods of pin stack calculations that defies anyone accustomed to their grandpa's old SFIC pin stack methods.

But, one of the comforting specifics is that we're still thinking 'tip to bow' as we would in any older SFIC system. However, there is no tip stop. Keys are gauged from the shoulder, but read from tip to bow. Also, the pin lengths are new to SFIC. A large number of bittings are available with the ASSA Maximum+ 6-pin SFIC, more than in any A2, A3 or A4 system.

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We will look at this in more detail later. Additionally, those who would like to integrate this new SFIC system into their existing ASSA system can do so, with some caveats. The possibilities are huge. So, fellow detectives, let's investigate core construction…just the facts.

Core Construction

As expected, the cores are manufactured with solid brass for durability. Bottom pins, unique and not compatible with other aftermarket SFIC pins, are solid nickel-silver in composition. Each pin chamber can be individually changed as needed for serviceability. This new system is compatible with existing ASSA Maximum+ cylinders and is patented until 2030. One other benefit is that this new ASSA SFIC system can be combinated using existing standard tools for SFIC, with the small exception of the Ejector Tool. It will accommodate any application where a 6-pin SFIC is present and can be used where both key control and security are a concern.

Pins

Those who are familiar with the ASSA standard pin depth system are in for a delight. The engineers have taken this same basic ASSA increment system, utilized it in the new SFIC system and added a few special treats.

The single-step, .024" (actually .0235") increment, is also used in the ASSA Maximum+ SFIC. They have reduced the pin diameter down to standard SFIC-size at .108". Furthermore, the system has eight bottom pins and 12 wafer pins which include master pins, build-up pins and top pins. If you are used to working single-step A4, then you get the basic idea. There is no key cut parity to be concerned with within any given chamber.

The pins are seated on the flat (root) of the key cut, which has the cut specifications of a 90-degree angle. The key flat is.032" and the total pin stack dimension is approximately .4385". And, there are no side pins to worry about within the ASSA SFIC. Spacing remains at a standard .150", a happy tribute to many SFIC systems.

Keys, by the way, can be originated with standard rotary cutters (sorry, no punches at this time), such as a Framon, ITL, HPC Blue Shark/Tiger Shark, etc. Since the ASSA SFIC key is slightly shallower in blade height, it will retrofit into the same existing ASSA keyways, but the ASSA standard keys of the same keyway will not enter the ASSA SFIC.

Dedicated Pin Kit

The pin kit (#PK-SFIC) contains all nickel-silver pins, bottom pins and all wafer pins. Figure 5 and Figure 6 show the kit:

F5. ASSA SFIC Pin Kit #PK-SFIC

F6. Pin Kit Contents

One note is that the Ejector Pin used to eject pins from the core is smaller than a standard SFIC ejector tool, so you will need this dedicated tool. It's part number is: 900800, though it does come as part of the Pin Kit #PK-SFIC.

Figure 7 (to follow) shows the technical data one would need to know for this new system:

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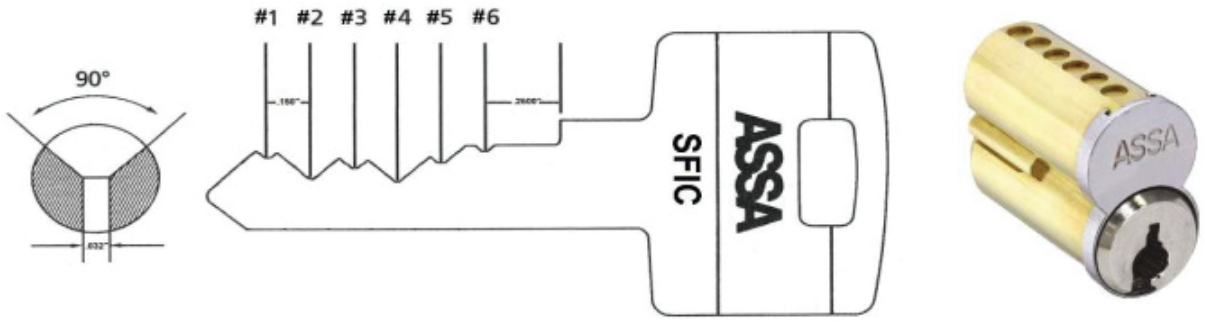
ASSA Maximum+ SFIC Technical Data



Pin & Key Specifications

Part Number:	SFIC Bottom Pin Number:	Pin Length:	Key Cut Depth:
909001	SFIC Bottom Pin #1	0.2740"	0.1645"
909002	SFIC Bottom Pin #2	0.2505"	0.1880"
909003	SFIC Bottom Pin #3	0.2270"	0.2115"
909004	SFIC Bottom Pin #4	0.2035"	0.2350"
909005	SFIC Bottom Pin #5	0.1800"	0.2585"
909006	SFIC Bottom Pin #6	0.1565"	0.2820"
909007	SFIC Bottom Pin #7	0.1330"	0.3055"
909008	SFIC Bottom Pin #8	0.1095"	0.3290"
	SFIC Wafer Pin [BP, MP, BUP, TP] Number:	Blank	0.3290"
911001	SFIC Wafer Pin #1	0.0235"	
911002	SFIC Wafer Pin #2	0.0470"	
911003	SFIC Wafer Pin #3	0.0705"	
911004	SFIC Wafer Pin #4	0.0940"	
911005	SFIC Wafer Pin #5	0.1175"	
911006	SFIC Wafer Pin #6	0.1410"	
911007	SFIC Wafer Pin #7	0.1645"	
911008	SFIC Wafer Pin #8	0.1880"	
911009	SFIC Wafer Pin #9	0.2115"	
911010	SFIC Wafer Pin #10	0.2350"	
911011	SFIC Wafer Pin #11	0.2585"	
911012	SFIC Wafer Pin #12	0.2820"	

09340	Chamber Springs
910013	Caps
762951	Key Blank

System Features & Data

System Feature:	System Data:
Manufacturer:	ASSA, Inc.
Distributor:	ASSA Technical Services
Distributor Contact:	Tom Demont, CML, CMST
Increment [A5 - New]	.0235"
Progression Type:	Single Step
Pin Diameter:	.108"
Pin Configuration:	6-pin core
Plug Diameter:	Face: .5095" Barrel: .4350"
Key Cut Angle:	90º
Key Cut Measurements:	Bottom of Blade to Cut
Key Cut Method:	Rotary Cutter
Key Cut Direction:	Tip to Bow
Deepest Key Cut:	1 (8 increments)
Width of Key Flat Base	0.032"
Key Cut Tolerance	+0.0008" / -0.0012"
Spacing / A2, A4 Compatible?	.150" / Yes
Spacing Calculation:	.2600" from Shoulder
Pin Stack Total:	6 (15 increments)
Pin Stack Dimension:	Total = .4385"
MACS:	5
Side Pins:	None
Integrate into ASSA:	Yes, possible
UL437 Listed / Restricted:	No / Yes
Patent Expiration:	2030
Number of Theoretical Bittings Possible:	117,649 (Minus MACS losses)

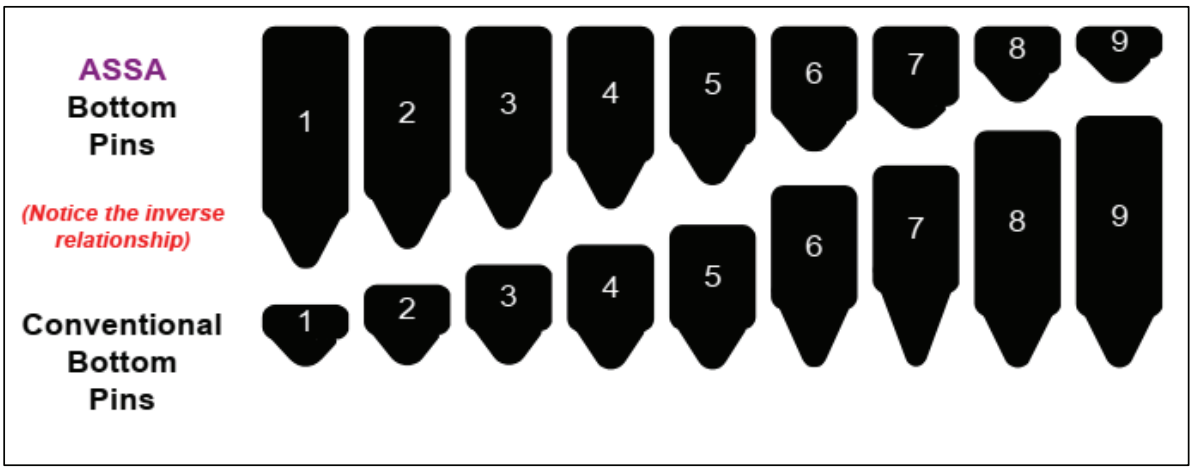
F7. The ASSA Maximum+ SFIC Technical Data Sheet

Finally, those of you who are not familiar with the bottom pins found in a standard ASSA pin kit and used with their fixed cylinders and LFICs, are in for a special treat. It's time to wrap your head around a new way of looking at an innocent set of bottom pins. Please be forgiving.

"Trouble in River City"

If you have ever seen the musical: "*The Music Man*", then you know things in River City were allegedly not perfect. So, what does that have to do with ASSA bottom pins? We will let you be the judge.

Figure 8 shows the ASSA bottom pins compared to what most of us would term 'conventional' bottom pins:



8. Illustrating the inverse relationship between the ASSA bottom pins and conventional bottom pins

A picture can speak 1,000 words. As you can see, the smaller number of an ASSA bottom pin is equivalent incrementally to the longest bottom pin in a conventional system. The ASSA #1 BP is the same actual length (incremental length) as a #9 conventional BP. This chart shows the inverse relationship.

NOTE: This chart shows standard ASSA bottom pins for fixed cylinders and LFICs. The SFIC version does NOT have a #9 BP. They run #1 - #8 only in ASSA Maximum+ SFIC.

Numeric Dimension vs. Incremental Dimension

Since ASSA has given us the pleasure of dealing with **Inverse Increments** regarding their Bottom Pin designations opposite traditional Bottom Pin designations, we will just have to roll with it. However, there exists a serious issue involving calculating pin stacks because of this juxtapositioning that we must carefully consider.

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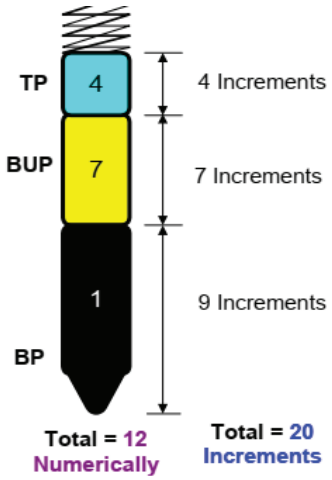
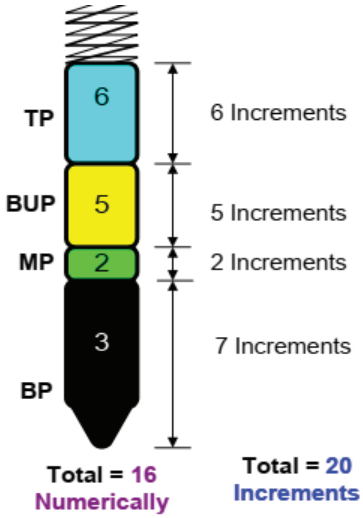
Take a look at this graphic in Figure 9 that illustrates the issue at hand. It involves the ASSA LFIC [not SFIC] in one of the four control chambers. In each control chamber, the pin stack must total 20 increments:



F9. An example showing the numerical vs. the incremental values in an ASSA LFIC control chamber pin stack

In this example, you can see that the 'numerical' total of this LFIC pin stack equals 12 (not 20). That is because we must calculate the inverse of the bottom pin into what the actual incremental distance is. In this case it is 9 (10-1=9). The number 10 becomes the converter from numeric dimension to incremental dimension. Then we can see the pin stack actually totals 20, as it should. Here is another example, shown in Figure 10:



F10. A second example showing the numerical vs. the incremental values in an ASSA LFIC control chamber pin stack

Again, it is the value of the bottom pin that is the 'ringer', as they say. Within the ASSA Maximum+ SFIC, the converter number is 9 to achieve the real pin stack total, as you will see in more detail when we discuss pin stack calculations.

A2, A3, A4…A5?

A2, A3 and A4 systems are all based on the varying increments of the respective systems. The pin diameter remains constant, as does the spacing. Why have them? Very simple: Single-step systems can yield many more bittings than 2-step systems. If a system's increment is small, usually under .023" [excluding SFIC A4] , then a 2-step system is needed. We can see this with Schlage Conventional (.015"), Sargent (.020"), BEST A2 (.0125"). But, if we increase the increment to over the threshold of about .023", we have increased bitting capability in a single-step system such as with ASSA (.0235"), Kwikset (.023), Russwin System 70 (.028"), etc.

ASSA has become ground breaking in this instance, as it is the only manufacturer, aside from BEST, to create a fourth SFIC increment system: **A5**, if you will.

Figure 11 shows the bittings available in the four systems comparing 6-pin and 7-pin cores:

Theoretical Key Bittings /Change Keys				
SFIC System:	A2	A3	A4	A5
Status:	In Use	Discontinued	In Use	In Use
Originator:	BEST	BEST	BEST	ASSA
Progression Type:	2-Step	1-Step	1-Step	1-Step
Increment:	.0125"	.0180"	.0210"	.0235"
Pin Diameter:	.108"	.108"	.108"	.108"
MACS:	9	6	5	5
6-pin Cores:	**4,096**	**46,656**	**15,625**	**117,649**
7-pin Cores:	**16,384**	**279, 936**	**78,125**	**n/a**

F11. This chart shows the potential theoretical key bittings possible in A2, A3, A4 and A5 systems, with additional data

Can I Use My A2 Pin Kit…Pretty Please?

Well, since you asked nicely, yes. The core was constructed to conventional SFIC standards, with exception of the plug. The control shear line remains 10 increments as in A2. However, the ASSA key blank will mitigate the larger space needed in the plug because of the seating of the key blank itself for both ASSA A5 and standard SFIC A2. In other words, no problemo. Just make sure your code machine is set for a custom DSD that incorporates the center of the cut nearest to the shoulder at .2600".

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So, if you are not wanting to take advantage of the massive 117,000 bittings available within the ASSA SFIC .0235" single-step A5 increment system, you can compromise those totals to a maximum of 4,096 bittings by using the existing A2 system (or even an A4 system for 15,625 bittings), excellent for small to medium size applications.

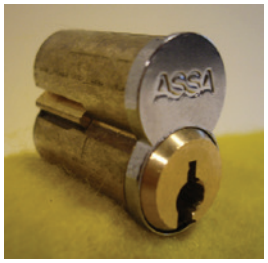
Tools - Use Your Own!

I am an advocate of using the proper tools for the job at hand. But, if I can use tools I already own to successfully accomplish a job, so be it. The point here is that you can utilize your existing SFIC combinating tools for the ASSA SFIC. Your favorite SFIC Pin Kit (LAB, BEST, Arrow, etc.), the Annex (LAB), capping press (A-1, Framon, BEST), Quic-Test Tool (ICLS Global), Quic-Load Block (ICLS Global) and your pinning block (A-1, ProLok, BEST, Schlage) will all work beautifully.

The only other tool that will be necessary is the ASSA SFIC Ejector Tool, used when you need to recombinate these cores. The standard aftermarket SFIC ejector tool, and even the thinner Medeco KeyMark ejector tool, will not work. The reason is that there is a keyway ward on both sides of the bottom of the plug that will only allow the thinner, specially made ASSA SFIC Ejector Tool to bypass that warding. Again, its part number is #900800 and comes included in the ASSA SFIC Pin Kit.

Calculating ASSA SFIC Pin Stacks

Those of you who have been calculating SFIC pin stacks for years might as well forget everything you know about it. That is because the new ASSA SFIC (Figure 12) pin stacks are determined in different ways: calculating bottom and master pins, determining the build-up pins and calculating the top pins each use alternate methods of calculations.



F12. Core Side View

Calculating the Bottom Pins and Master Pins

In order to accomplish this correctly, one must do the REVERSE of what you would normally do with a conventional fixed cylinder or SFIC pin stack. Traditionally, you would look at the key cuts for the change key and top master key. Whichever is the smaller bitting, that would become the bottom pin. The difference between the two would be the master pin value.

Since ASSA uses the inverse of the bottom pin dimensions, we do the opposite. The larger value of change key cut compared to master key cut will be the bottom pin. The difference of the 2 cuts becomes the master pin.

Let's use an example that ASSA uses in their Pin Calculator (discussed later) so that we can illustrate this point. Figure 13 shows the change key and master key bittings:

Change Key:	**346858**
Master Key:	**135633**

F13. Example change key & master key bitting

Looking now at the first chamber in Figure 14 (farthest left) of the two bittings, we see:

Change Key, Chamber #1:	**3**
Master Key, Chamber #1:	**1**

F14. Change key & master key bitting for only Chamber #1

Now, Figure 15 provides the formula for Determining BP and MP Values:

Formula for Determining BP and MP Values: *(from TMK & Change Key Cuts for ASSA SFIC Pin Segments)*
1) Larger value: _____ (Will be BP)
2) Subtract – _____ (other cut) smaller value
3) Result: _____ (Will be MP) *If both cuts same, no MP used*

F15. The formula for Determining BP and MP Values

3 Change Key Cut [larger value = **BP**]
-1 Master Key Cut [smaller value]
2 Master pin value = **MP**

One issue many students have is that they tend to confuse the key cut number with the pin number. Remember: they are different types of numbers! A key cut may not necessarily be a pin number and a pin value may not necessarily be a key cut number.

That being said, if we apply this 'altered' BP and MP formula, Figure 16 shows the core's partial pin stacks so far:

Master Pins:	**2**	**1**	**1**	**2**	**2**	**5**
Bottom Pins:	**3**	**4**	**6**	**8**	**5**	**8**

F16. The core's partial pin stacks for BPs & MPs

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Calculating the Build-Up Pins

Conventional, or fixed cylinders do not have build-up pins (BUPs). Many interchangeable cores, especially those which have a separate shear lines such as SFICs, do. Some will call them 'control pins', which is the same thing as build-up pins.

Its purpose is to allow the control key to bring the pin stacks to the control shear line to allow the removal of the core from its housing or to insert the core into its housing.

Again, the formula to determine the BUP is different from that of a conventional SFIC (Figure 17). The ASSA SFIC Factory Build-Up Formula is:

Factory BUP Formula
(Bottom Pin) - (Master Pins) - (CTRL Key Cut) + 5 = BUP
NOTE: A "0" result indicates no BUP

F17. Factory BUP Formula

There is also an alternate BUP formula (Figure 18), as there are usually a number of ways to achieve the same end. Try both out and you will see that you will get the exact same result. Whichever formula makes more sense to you or is easier to calculate is what you might use. To use the Alternate BUP Formula, it is necessary to calculate the top pins before the BUPs:

Alternate BUP Formula
15 - (9 - BP) - MP - TP = BUP
NOTE: A "0" result indicates no BUP

F18. Alternate BUP Formula

Let's start with the Factory BUP Formula for Chamber #1(Figure 19). Figures 20 and 21 show the math and result:

Build-Up Pins:	**?**
Master Pins:	**2**
Bottom Pins:	**3**

F19. The Factory BUP Formula for Chamber #1

3 - 2 = 1 (Bottom Pin minus Master Pins)
1 - 5 = -4 (minus CTRL Key Cut)
-4 +5 = 1 (plus 5)
1 (BUP)

F20. Calculations for the Factory BUP Formula for Chamber #1

Build-Up Pins:	**1**
Master Pins:	**2**
Bottom Pins:	**3**

F21. BPs, MPs and BUPs for Chamber #1

To complete the core for BPs, MPs and now BUPs (Figure 22):

Build-Up Pins:	**1**	**5**	**6**	**6**	**1**	**2**
Master Pins:	**2**	**1**	**1**	**2**	**2**	**5**
Bottom Pins:	**3**	**4**	**6**	**8**	**5**	**8**

F22. Chart showing the complete core for BPs, MPs and BUPs

Calculating the Top Pins

Once again, this formula is easy, but still different from conventional SFICs. Simply add a value of "1" to the control key cuts (Figure 23):

Top Pin Formula
Control Key Cut +1 = TP

F23. The "*Simple*" TP Formula

Control Cut for Chamber #1: 5

5 + 1 = 6 (Top Pin)
To top off the core's pin stack for the Top Pins would be (Figure 24):

Top Pins	**6**	**4**	**5**	**6**	**8**	**7**
Build-Up Pins:	**1**	**5**	**6**	**6**	**1**	**2**
Master Pins:	**2**	**1**	**1**	**2**	**2**	**5**
Bottom Pins:	**3**	**4**	**6**	**8**	**5**	**8**

F24. The core's pin stacks with all TPs and ancillary pins

Let's take a look at and use that alternate BUP Formula) since we know the TP values (Figure 26. The chart is repeated without BUPs in Figure 25:

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Top Pins	6	4	5	6	8	7
Build-Up Pins:						
Master Pins:	2	1	1	2	2	5
Bottom Pins:	3	4	6	8	5	8

F25. The core's pin stacks with all TPs and ancillary pins, bit omitting the BUPs

Alternate BUP Formula
15 - (9 - BP) - MP - TP = BUP
NOTE: A "0" result indicates no BUP

F26. Here is the Alternate BUP Formula

For chamber #1 without the BUP is in Figure 27, and with the BUP is shown in Figure 28:

Top Pins	6
Build-Up Pins:	?
Master Pins:	2
Bottom Pins:	3

F27. Pin stack for Chamber #1, without the BUP

15 - (9 - 3)
(3 - 9) = -6
15 - 6 = 9
9 - 2 = 7
7 - 6 = 1

Top Pins	6
Build-Up Pins:	1
Master Pins:	2
Bottom Pins:	3

F28. Pin stack for Chamber #1, with the BUP

For chamber #2 (Figure 29):

15 - (9-4)
(9-4) - 5
15 - 5 = 10
10 - 1 = 9
9 - 4 = 5

Top Pins	6	4
Build-Up Pins:	1	5
Master Pins:	2	1
Bottom Pins:	3	4

F29. Pin stacks for the first 2 chambers, all inclusive

Once again, two different roads can still take us to the same destination.

Checking Pin Stack Height

ASSA recommends the following formula (Figure 30) to check pin stack height:

Pin Stack Height Formula
(TP + MP + BUP) - BP = 6

F30. ASSA's Factory Pin Stack Height Formula

Top Pins	6	4	5	6	8	7
Build-Up Pins:	1	5	6	6	1	2
Master Pins:	2	1	1	2	2	5
Bottom Pins:	3	4	6	8	5	8
TOTALS	6	6	6	6	6	6

F31. All pin stacks shown totaling "6" as per ASSA

As you can see in Figure 31, there will be uniform pin stack height of 6 in each chamber. For those who are purists and need to see 'why' this is so, we must remember that the bottom pins are only the inverse of their actual incremental value. So, one can use this formula instead (Figure 32):

Alternate Pin Stack Height Formula (must know TPs first)
(9 - BP) + MP + BUP + TP = 15

F32. Here is the Alternate Pin Stack Height Formula

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Top Pins	6	4	5	6	8	7
Build-Up Pins:	1	5	6	6	1	2
Master Pins:	2	1	1	2	2	5
Bottom Pins:	6	5	3	1	4	1
TOTALS	15	15	15	15	15	15

F33. A chart showing all pin stacks equaling 15 from the Alternate Pin Stack Height Formula

This alternate pin stack height formula, though adding one more step, shows the pin stack's true incremental height of 15 (Figure 33). But, for simplicity, I would recommend using the factory's formula totaling 6 for each chamber. A list of all of these formulas in a matrix can be found in Figure 34, which follows.

ASSA MAXIMUM+ SFIC Formulas

Formula for Determining BP and MP Values: *(from TMK & Change Key Cuts for ASSA SFIC Pin Segments)*
1) Larger value: _____ (Will be BP)
2) Subtract – _____ (other cut) *smaller value*
3) Result: _____ (Will be MP) *If both cuts same, no MP used*
Factory BUP Formula
(Bottom Pin) - (Master Pins) - (CTRL Key Cut) + 5 = BUP
NOTE: A "0" result indicates no BUP
Alternate BUP Formula
15 - (9 - BP) - MP - TP = BUP
NOTE: A "0" result indicates no BUP
Pin Stack Height Formula
(TP + MP + BUP) - BP = 6
Alternate Pin Stack Height Formula *(must know TPs first)*
(9 - BP) + MP + BUP + TP = 15

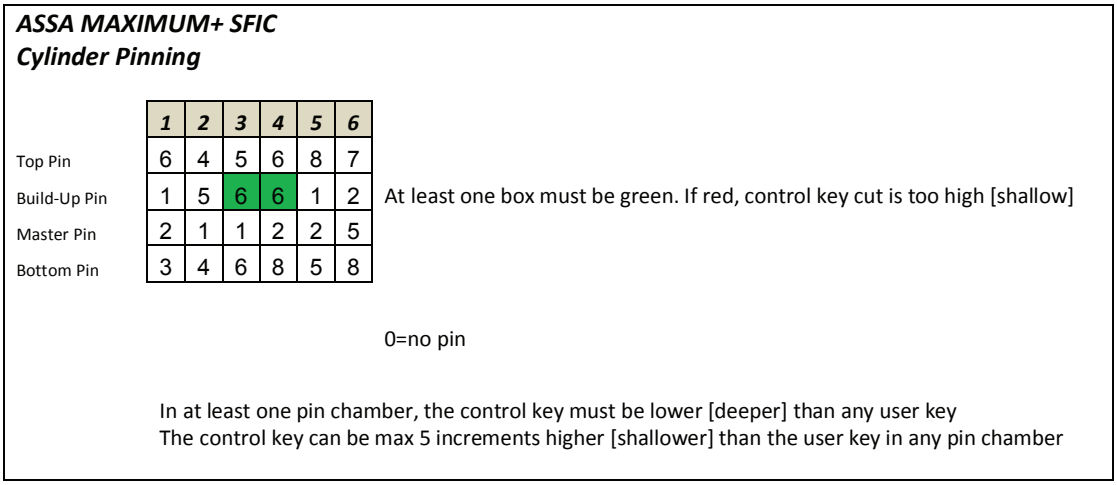
F34. A comprehensive chart illustrating all of the ASSA MAXIMUM+ SFIC Formulas

ASSA Pin Stack Calculator

Now that you see the hows & whys of calculating the pin stacks for the ASSA SFIC, it is not difficult at all. But, to further assist you, ASSA had created an EXCEL calculator that can take the CK, MK and CTRL key bittings and quickly whip them up into six useable pin stacks in a jiffy. Notice the two green boxes (Figure 35). This alerts you to the fact that your predetermined control key bitting may not be useable within this system if it appears red in color. If so, alter it so that the cut is deeper. Furthermore, ASSA requires at least one cut on the control key to be deeper than any operating key cut. Note that the MACS of 5 is shown as a reference. Figure 35 illustrates this. You can access it via the LSA Michigan web site at:

https://www.lsamichigan.org/Tech/ASSA_SFIC_Pinning_Calculator_Web.xlsx

NOTE: Since this is an EXCEL file and not an .EXE file, you will need to download it, save it to your device (desktop, computer, phone, etc), and open the file. You will need an EXCEL program on your device to work it. You cannot OPEN it online and expect it to work 😵!



ASSA MAXIMUM+ SFIC
Cylinder Pinning

	1	*2*	*3*	*4*	*5*	*6*
Top Pin	6	4	5	6	8	7
Build-Up Pin	1	5	6	6	1	2
Master Pin	2	1	1	2	2	5
Bottom Pin	3	4	6	8	5	8

At least one box must be green. If red, control key cut is too high [shallow]

0=no pin

In at least one pin chamber, the control key must be lower [deeper] than any user key
The control key can be max 5 increments higher [shallower] than the user key in any pin chamber

Figure 35. A graphic from the ASSA MAXIMUM+ SFIC Cylinder Pinning via an Excel File

Conclusions

ASSA has created a revolutionary new SFIC system, A5, that can accommodate many more bittings than in any other existing SFIC system, without the use of side pins, side cuts or any other mechanical add-on device. They were able to successfully utilize their existing .0235" increment system and .150" spacing to effectively offer an SFIC with a standard pin diameter of .108" that can retrofit existing SFIC hardware. If you are interested in acquiring this system, feel free to contact Thomas R. Demont, AHC, CFDI, CFL, CMIL, CML, CMST, IFDI, ICML, LSFDI, ARL, CAI through ASSA Technical Services, Inc. at (724) 969-2595 for product fulfillment or further system questions. ***'Additional Considerations'*** for TMKs, CTRLs and using ASSA SFICs with A2, A3 & A4 systems. You must add 2 increments to the driver. Additional information is on the following pages of this Technical Manual.

Happily, ASSA has stepped up to the plate, at a time when SFIC is as common to locksmiths as bread-n-butter, and options are extensive as we have seen over the last century. But, when a manufacturer can think outside of the box, the ramifications for the industry are striking and is a further indication that SFIC isn't going anywhere, anytime soon…other than becoming even more expansive than it already is.

* * * * * * * * * * * * * * * * *

*Special thanks are extended to: **ASSA, Inc.** USA, **Bo Widen**, Widén Innovation, Inventor of the ASSA SFIC, **Daniel Andersson**, ASSA Sweden, Engineer, **Lance Berger**, Lberger Sales, LLC, Manufacturer's Rep, **John Hubel**, CML, ICML, M.Ed. and **Tom Demont**, AHC, CFDI, CFL, CMIL, CML, CMST, IFDI, ICML, LSFDI, ARL, CAI, ASSA Technical Services, Inc. for assistance in preparing for this Technical Manual.*

ADDITIONAL CONSIDERATIONS

Creating an ASSA SFIC A5 System Top Master Key

When setting up your ASSA SFIC system, establishing the TMK is accomplished the same way as is done in any conventional system. Here are a few specific considerations:

1) Make sure the numbers match the possible bottom pins in the system (1-8: no 0 and no 9)

2) Observe MACS. No adjacent cut may be greater than 5 (i.e., 2 next to a 5 is OK; 1 next to a 7 is forbidden)

3) Follow industry guidelines for creating an appropriate TMK

12 Rules for Selecting a TMK

1) One of the TMK cuts should be the **deepest** possible (avoid the bow)
-security (picking); key integrity (key bow breakage)

*2) Never make **all cuts deep***
-security (all change keys can be filed down to a TMK)

3) One of the TMK cuts should be the **shallowest** possible (avoid the tip)
-security (altering); key/lock wear

*4) Never make **all cuts shallow***
-security(picking); key/lock wear

5) Never make a TMK become a **declining or ascending** step key
-security (picking; turned plug - key out = unlocked); key/lock wear

6) Never make a TMK have a **straight line** combination
-security (toothpick opens); wear (eventual key pull out in open position)

7) Avoid **shallow/deep extremes** [ex.: 9180908]
-mechanical (premature wear on keys and locks)

8) Use **moderate shallow/deep** cut-to-cut variation
-system (may provide more useable bittings, less MACS loses)

9) Do not use **pre-written systems** found in books, internet, classes, etc.
-liability (keep excellent records; store in a safe; make all systems different)

10) Observe specific **manufacturer rules**
-key system peculiarities (manufacturers have reasons)

11) Alternate **parity**
-key system security (keeping systems distinct)

12) Maintain **TMK Register**
-key system security (avoids unknowing duplication of systems)

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Creating an ASSA SFIC A5 System Control Key

The procedure is similar as with standard SFIC systems. Once the TMK has been created, diagram a simple KBA. Our example TMK bitting will be 574346:

5	7	4	3	4	6
6	8	5	4	5	7
7	1	6	5	6	8
8	2	7	6	7	1
1	3	8	7	8	2
2	4	1	8	1	3
3	5	2	1	2	4
4	6	3	2	3	5

Create the control key by selecting a bitting number in each column below the TMK. Be careful to watch for any MACS violations. Use similar factors as shown in the previous section on Creating a TMK. Be aware that some systems may use a bitting from the TMK within the control bitting. Our example control bitting will be:

2 4 7 8 5 1

Do not worry about parity (odd/even) in each column. ASSA SFIC A5 is a single-step system where parity is not applicable.

Once you have selected your new control key, be sure to strike it from the progression list. It should NOT be used in the system as a change key.

ASSA has also listed several other considerations related to the control key:

1) In at least one pin chamber, the control key MUST be lower (deeper) than any user key. [1=deepest cut; 8=shallowest cut]

2) The control key can be a maximum of 5 increments higher (shallower) than the user key in any pin chamber [1=deepest cut; 8=shallowest cut]

Decoding for the Control Key

Since the control key is usually a random change key bitting extracted from the system, there will be no method to determine its value by key comparisons or extrapolation. To decode for the control, one will need to have access to a combinated core, remove the top pin in each chamber, measure each with a caliper and use the formula shown next:

Determining the Control Key
Top Pin – 1 = Control Key Cut

Using A2, A3 and A4 Systems with the ASSA SFIC Maximum+

If you choose to combinate the ASSA SFIC Maximum+ using standard SFIC pins (not the dedicated ASSA SFIC Pin Kit), you must allow for the shallower plug which accommodates the ASSA key. The pin stack totals for A2, A3 or A4 systems are calculated the same as usual.

The only extra consideration while combinating will be the value of the top pin. This is where we make up the difference of a shallower plug in the ASSA SFIC as related to the ASSA SFIC pin stack total of .4385". Thus, the pin stack will be a bit larger in non-A5 systems to allow for proper spring pressure on the stack. In A2 we will add 3 extra increments so the pin stack will total a coded 26. Two other adjusted values for A3 and A4 are also shown in the chart below:

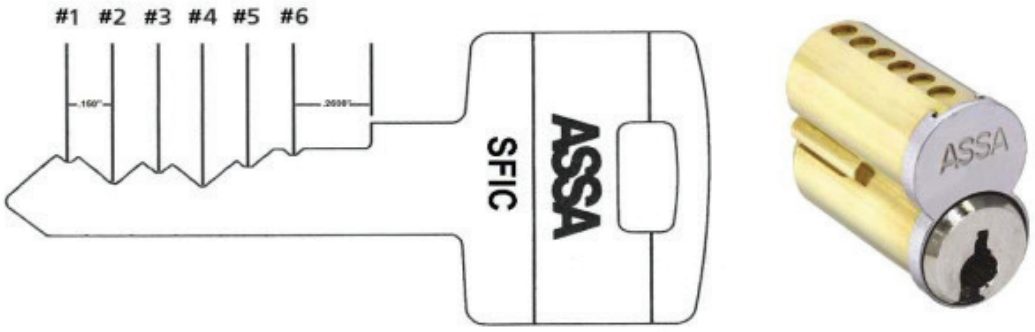
Use of Standard SFIC Pins in an ASSA Maximum+ SFIC

Standard SFIC System	Pin Stack Measurement	Increment Measurement	Coded Pin Stack Height in Standard SFIC	Coded Pin Stack Height in ASSA SFIC
A2	.397"	.0125"	23	**26**
A3	.398"	.018"	16	**18**
A4	.404"	.021"	14	**15**

All keys will operate as usual with no adverse effects on the system. If the plug tends to turn a bit harder, you might lessen the top pin by one increment.

The other factor will be originating the ASSA SFIC key when using standard SFIC pins. You will need to set up a new DSD, or adjust a current one. Depths are the same, as based on each of the respective A2, A3 or A4 systems.

Spacing is the biggest factor. Again, since there is no tip stop on the ASSA SFIC key, it will be gauged from the shoulder on the bow. The key will still be cut tip to bow. The first cut will be measured from the bow to the center of the first tip cut, and so on. Spacing from cut to cut will remain .150". The distance from the shoulder stop to the center of the 6th cut is .2600". Below is an image to illustrate this:



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