

**C4™**  
Concept 4



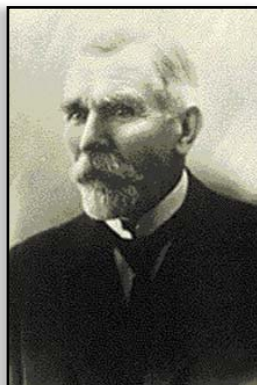
## Product Catalog & Technical Manual

ASSA ABLOY, the global leader  
in door opening solutions

**ASSA®**  
High Security Locks  
**ASSA ABLOY**

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## History of ASSA, Incorporated

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 pillow slip with his name forwards and backwards – “August Stenman, Stenman August,” 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.

ASSA, Inc. was originally opened in Naperville, IL as a marketing arm of ASSA AB in Sweden. Incorporated in 1984, ASSA, Inc. was a full line manufacturer of mortise locks, padlocks, auxiliary locks, and high security key systems. Under the direction of Wayne Wilkerson, who became president and CEO in 1989, ASSA, Inc. was transformed into the largest high security cylinder manufacturer in the United States.

Starting in 1992, ASSA, Inc. shifted its sales direction from independent dealer sales to institutional, industrial, and government sales. With the introduction of its new master keying capabilities they became the logical choice for institutions around the country. In 1996 alone, sales rose from under \$500,000.00 to over 8 million.

Some of the customers who made this possible are The World Bank, The United States Supreme Court, Boeing, AT&T, Baltimore Ravens Stadium, The University of New Hampshire, Prince George's County School District, Alexandria City Public Schools, Tucson Unified Schools, and numerous Schools and federal government facilities.

With the introduction of the Twin V-10 system in 1996, ASSA ushered in a new generation of lock technology offering patent protected, unique geographically exclusive keyways for ASSA authorized security centers and end users. The innovative Twin V-10 key design and cylinder helped to eliminate unauthorized duplicate keys and to maintain a key control system that is unmatched in the industry.

In 2000, ASSA introduced the Twin Exclusive, a patent-protected upgrade to the highly successful Twin 6000 series. Utilizing the same dual locking

mechanism, the Twin Exclusive built on the original design and allowed one key to work both cylinders. That same year, ASSA, Inc. opened its doors to a new 5,000 square foot facility in New Haven, CT increasing its production capabilities with state of the art machinery and assembly equipment.

The high security key control system introduced by ASSA in 2003 is the Twin Pro, the most sophisticated key system being offered on the world market today. Worldwide keyways can be obtained through written agreement with ASSA for guaranteed exclusivity. The Twin Pro is not stocked by our traditional distribution outlets eliminating the possibility of the system being compromised. ASSA trains facilities to service these locks in-house or they can be serviced by an ASSA certified service center.

The Twin Maximum product line introduced in 2005 is set up to interface with the ASSA Concept 4 CLIQ system. Combining high security mechanical cylinders and keys with state of the art electronics, the ASSA C4 CLIQ provides the user with a level of accountability and system control unmatched in the industry. A full audit trail with date and time stamp ensures the security of all or selected openings within the system while the keys can be used to operate standard mechanical cylinders as well. The innovative ASSA C4 CLIQ is yet another example of why ASSA continues to be the world's leader in high security and patented key control solutions.



## General Information

### The ALPHA Twin 6000 System, The ALPHA Twin Exclusive System and The Twin Exclusive Cylinder Program

ASSA introduced the ALPHA System of key control programs to meet the security requirements of locksmiths, distributors and end users. The Twin Exclusive System is an extension of the Twin 6000 patent. The Twin Exclusive was introduced as an upgrade to the ASSA Twin 6000 program, introducing new patented keyblanks based on the Twin V-10 patent and new key profiles offering a low cost advantage for extending patent protection for the end user. The system consists of virtually the same programs as ALPHA and Twin V-10 Cylect. Briefly, the system consists of four programs:

TEL/Gamma	Locally exclusive keyways for locksmiths
TER/Beta	Regionally exclusive keyways for locksmiths
TED/Delta	Nationally exclusive keyways for distributors
TEE/Alpha	Regionally exclusive keyways for end-users, sold through normal channels of distribution.

### The Twin V-10 Cylect Cylinder Program

The Twin V-10 was introduced as an upgrade to the ASSA Twin 6000 program, introducing new patented keyblanks and key profiles. The system consists of virtually the same programs as ALPHA:

C2L	Locally exclusive keyways for locksmiths
C2R	Regionally exclusive keyways for locksmiths
C2D	Nationally exclusive keyways for distributors
C2E	Regionally exclusive keyways for end-users, sold through normal channels of distribution.

### Keyway Information

Each key control program in the ALPHA and Twin V-10 systems utilizes a standard cylinder plug profile (broaching). Various sidebar codes are used to create different keyways. Keyblanks produced after August 1988 are stamped with complete keyway code, e.g., 507-51. Please include keyway code and profile when ordering keys, keyblanks and cylinders, except SNS cylinders. (See Cylinder form, below).

### The Twin Pro Cylinder Program

The Twin Pro program was introduced in 2003 as ASSA's highest level of controlled security in its delivery process. Twin Pro product is drop shipped only from the factory and is available to End Users and ASSA Certified Service Centers.

### Twin Maximum Cylinder Program

The Twin Maximum program released in late 2005 has features that none of our other systems offer. The most advanced secure UL 437 Listed cylinder ever produced. A non UL version is offered for less secure doors. This system is designed to interface with the new C4 CLIQ access control cylinder with full audit trail features for the cylinders and keys.

### C4 CLIQ Cylinder Program

Concept 4 is the most advanced access control system designed for a stand alone cylinder and key in the industry today. Offers time zoning, audit trail for cylinder and key. Interface with HID Prox systems in multiple formats. Offered in Twin Maximum only.

### Cylinder Form

ASSA Twin locks and cylinders are available in three different forms:

COMP (Complete)	Keyed-different items include two cut keys per cylinder. Keyed-alike items normally include two cut keys per cylinder.
SUB (Sub-assembled)	Uncombined cylinder includes sidebar mechanism, but no tumbler pins, springs or keyblanks. Pin chamber closure strip, plug and screws provided.
SNS (Sub, No sidebar)	Uncombined cylinder without sidebar and sidebar springs. Includes sidepins, sidepin springs, standard tailpiece items and pin chamber closure.

When ordering ASSA Twin locks and cylinders, be sure to indicate CYLINDER FORM.

## General Information

### Red Core

ASSA provides temporary construction cores (red cores) for its interchangeable core cylinders upon request. Red cores are invoiced separately and upon return to ASSA, credit will be issued for the full invoiced amount less a **50% handling fee**. Request for credit must be made in writing to ASSA Customer Service referencing the original invoice upon which the red cores appear. KEYS ARE NOT INCLUDED IN THE PRICE OF THE RED CORE AND ARE NOT ELIGIBLE FOR RETURN. All cut keys are invoiced separately (list each).

To order interchangeable core cylinders with temporary cores, specify cylinder model number, Cam, finish, by RED CORE, example, 6552ICR-1 x 626 x RED CORE. Cylinder will be charged at COMP price. To order red core separately, specify 70600ICR. Specify change keys as TWIN-KD-RED and control keys as TWIN-CT-RED.

### Master Keying

ASSA Twin locks and cylinders may be master keyed to meet virtually any requirement. Contact the Key Records Department to discuss special needs. Master keying and bitting charges are shown on page 8 in the ASSA Price List.

#### FINISHES

Standard finishes are shown below. Antique brass (609) is available for deadbolts only.

ASSA BHMA Symbol	Equivalent U.S. Symbol	Euro Finish	Description
625	US 26	11	Bright Chrome
626	US 26D	13	Satin Chrome
605	US 3	20	Bright Brass
606	US 4	23	Satin Brass
609	US 5	47	Antique Brass
624	US 10B	46	Dark Oxidized
612	US 10	33	Satin Bronze

### Special Function Cylinders

ASSA offers two special function cylinders most commonly used in the Detention market. One is a directional cylinder, which is operated bi-directionally by one key and in one direction only (clockwise or counterclockwise) by a subordinate key. This special function is accomplished by a modification to the cylinder plug. The necessity for this product is clear; to provide functionality in the system design. However, due to the physical modification of the plug when used in a master key system, the potential size of the master key system will be reduced.

The second special function is a limited rotation cylinder. This cylinder requires two modifications and will be used in conjunction with a directional function. One key will operate bi-directionally 360° and only one direction (clockwise or counter-clockwise) by a subordinate key stopping at a determined position prior to 180°. These modifications will greatly reduce the potential of a master key system.

It is essential to indicate all special function cylinders in the initial master key system design. Otherwise they may not be possible as part of the master key system.

Special function cylinders are offered in limited models and are indicated by a symbol: † Prefixing the model number specifies available in special function.

### How to order

**Example**    **Model No.**    **Finish**    **Profile - Side Bar**  
Specify    E8551CW-14 .....626.....851 – 888 (For Directional Cylinders)

Specify    E8551WL-14.....626.....851 – 888 (For Limited Rotation Cylinders)

## Keys and Keying

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. Keys can be provided with various options of tactile identification upon request. Available in several profiles or broaches, ASSA high security keys all feature a unique side milling on the lower portion of the key blade and are precut at the ASSA factory. Each side milling represents a 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

### Warranty

- ASSA guarantees that if a key should break under normal usage, ASSA will replace it at no charge plus any reasonable service charge
- ASSA guarantees 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 guarantees its patented systems against unauthorized key duplication

### Certification

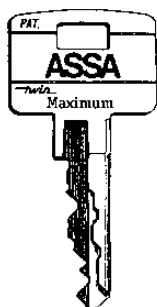
- Twin Exclusive, Twin V-10, Twin Pro and Twin Maximum keys listed under U.S. Patent numbers 5,067,335 and 5,640,865

### Technical Information

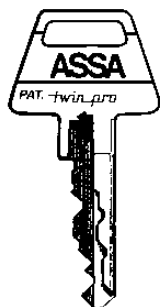
- High quality nickel silver material
- Key combination is read from tip to bow
- No. 1 cut is deepest, No. 9 is shallowest
- Maximum adjacent cut is 5 (example: 1-6 is acceptable, 1-7, 8 or 9 is not)
- Cut depth is measured as root depth from back of key to bottom of cut

Special stamping and custom coining available

## Keys and Keying



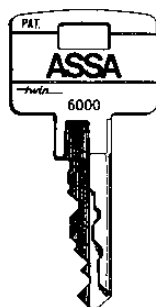
Twin Maximum



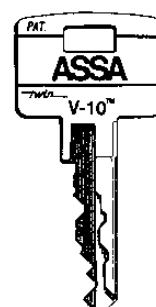
Twin Pro



Twin Exclusive



Twin 6000



Twin V-10

Item No.	Description
<b>ASSA Cut Keys</b>	
TMAX-KD	Twin Maximum Cut Keys KD/KA
TMAX-MK	Twin Maximum Cut Keys, In a Master Key System
TPRO-KD	Twin Pro Cut Keys KD/KA
TPRO-MK	Twin Pro Cut Keys, In a Master Key System
Twin-KD	Twin Exclusive/6000 Classic (Specify Profile) Cut Keys KD/KA
Twin-MK	Twin Exclusive/6000 Classic (Specify Profile) Cut Keys, In a Master Key System
V-10-KD	Twin V-10 Cut Keys KD/KA
V-10-MK	Twin V-10 Cut Keys, In a Master Key System
<b>ASSA Key Blanks</b>	
359644	Twin Maximum Key Blanks Qty. 100/box
816313	Twin Pro Keyblanks/Sidebar code (specify sidebar code) Qty. 100/box
867091	Twin 6000 Key Blanks (specify sidebar code and profile) Qty. 100/box
E867091	Twin Exclusive Key blanks/Sidebar code (specify sidebar code) Qty 100/box
250694	Twin V-10 Keyblanks/Sidebar code (specify sidebar code) Qty 100/box
969030	White Code Tags
<b>ASSA Coined Key Blanks</b>	
868996	500 minimum key blank quantity each order (Specify profile and side code)

## Keys and Keying



868062  
600 Series



UK

UM

PK

PL

UL

**Open:** Master-Key systems

**Restricted:** All

**Open:** Master-Key Systems

**Open:** Keyed Alike/Keyed Different

Item No.	Description
<b>600 Series Cut Keys &amp; Key Blanks</b>	
600-KD	Cut Keys KD / KA
600-MK	Cut Keys, In a Master Key System
868062	Key blanks/ Specify profile (UK, UL, UM, PK, PL)
<b>500 Series Key Blanks</b>	
462000	Key blanks/ specify profile
<b>700 Series Key Blanks</b>	
462001	Key blanks/ specify profile
<b>Cut Key Set</b>	
CKS-1	V-10 Cut Key Set
ECKS	Twin Exclusive Cut Key Set
TPCKS	Twin Pro Cut Key Set
TMCKS	Twin Maximum Cut Key Set



## ASSA Concept 4 CLIQ™

ASSA C4 CLIQ™ intelligent locking systems gives control over all keys, which can easily be upgraded and can be tailor-made to suit any needs. Since every key has its own identity, it becomes the “personal property” of the key holder. C4 CLIQ makes intelligent, flexible and high security lock systems possible. The key’s mechanical design creates the basic foundation made up of different security zones in the same way as in mechanical lock systems. The electronic programming of the keys gives authorization to individuals or to group of individuals. C4 CLIQ technology’s basic idea is the creation of an intelligent security system.

That means a lock system that retains a high level of security despite upgrading, alterations or expansion. Even after many years of use by a continual flow of new tenants, new employees or changes occurring in the workplace, the level of security will remain the same.



### ASSA C4 CLIQ offers HID Prox Chips

To match your existing HID Prox Access Control System. This allows that person to access the existing system with one credential.

#### Benefits

- Based on Twin Maximum Technology
- High and Medium Security Levels
- Extreme Master Keying Capacity
- Concealed Keying
- Wide Range of Retrofit Cylinder Shapes
- Possible to Add C4 CLIQ Functionality
- HID Prox Chip

#### Warranty

- Battery Life 2 Years or 20K Openings
- Lifetime on Key Breakage

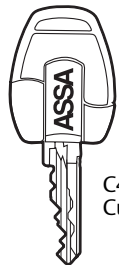
#### Certification

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

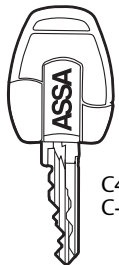
#### Technical Information

- Power Supply is Provided by the Key
- Data Transfer 64 Bit and Higher
- Water Resistant
- Sealed Electronics
- No Wires
- 3 Levels of Cylinders and Keying:
  - Twin Maximum UL 437 Cylinder & Key
  - Twin Maximum Medium Non Cylinder and Twin Maximum Key UL 437
  - Twin C4 CLIQ Electromechanical Cylinder and Key

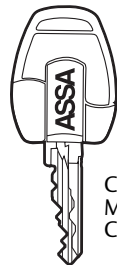
## C4 CLIQ™ Keys and Software



C4 CLIQ  
Cut Key



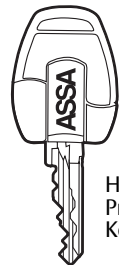
C4 CLIQ  
C-Key



C4 CLIQ  
Master  
C-Key



C4 CLIQ  
Contact  
Key

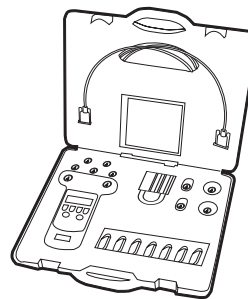


HID  
Prox  
Key

Item No.	Description
<b>ASSA C4 CLIQ™ Keys</b>	
CLIQ-KD	CLIQ Cut Key
CLIQ-KDP	CLIQ-Cut Key with Proximity tag
CLIQ-CK	CLIQ C-Key
CLIQ-MCK	CLIQ Master C-Key
CLIQ-CON	CLIQ Contact Key
CLIQ-PRX	HID Prox Key



C4 CLIQ  
Program  
Device



C4 CLIQ  
Demo  
Kit

Item No.	Description
<b>C4 CLIQ™ Programming Unit &amp; Software</b>	
CLIQ-END	Program Device with Single Site Performer Software – Manages C4 CLIQ System
CLIQ-END-NT	Program Device with Network Performer Software – Manages C4 CLIQ System
CLIQ-DEA	Program Device with Single Site Performer Software – Manages Multiple C4 CLIQ Systems
CLIQ-DEA-NT	Program Device with Network Performer Software – Manages Multiple C4 CLIQ Systems
CLIQ-PD	C4 CLIQ Programming Device
PFMR-S	Performer Software – Single Site
PFMR-N	Performer Software – Network
CLIQ-SDK	Sales Demo Kit

# Keys and Keying

## Master Key Order Procedure

Master Key system orders for ASSA products are processed using desktop computer systems. Part of our processing software allows us to import the customer order data when it is submitted to us in the compatible format described below on a diskette or via E-mail.

## Excel File Format

The layout of an Excel file which we can import is shown below. The first line in the file should number the fields 1 through 9, the file should not contain headers or formulas.

Field	Content	Character limit
1	Item #	4
2	Cyl. Quan.	4
3	Cyl/Cam PN	12
4	Finish	5
5	Cam	3 (Do not use, include cam with cylinder part #)
6	Keyset	12
7	Key Quan.	4
8	Door #	12
9	Comments	20
10	Spl. Key stamp	12 (For stamping other than DHI or SKCS standard)

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 AAI would become AAI-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 a Sample Order Template. The following is an example of a completed sample order log that must accompany each master key order submitted to ASSA. When filling out the key quantity column, unless otherwise requested, two keys will be supplied per cylinder with all master keyed orders.

The form is available by contacting your ASSA representative, ASSA Customer Service, or by logging onto the ASSA website [www.assalock.com](http://www.assalock.com). If a computer or the Excel program is not available to you, contact your ASSA representative for assistance in getting the form completed. The completed form is then e-mailed to ASSA key records email address [adautaj@assalock.com](mailto:adautaj@assalock.com). Master key purchase orders can be faxed to 800-892-3256 or mailed to ASSA Inc., 110 Sargent Dr. New Haven, CT. 06511.

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 (Bitings 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.**

# Architectural Specification

## High Security Key System

### General requirements:

1. Provide a high security key system capable of integrating various type of lock cylinders; mogul, builder hardware, and auxiliary locks, into a patented, geographically restricted, factory master keyed system to allow control over the entire facility.
  - a. Include detention mogul cylinders, builders hardware cylinders, auxiliary locks, and padlocks keyed into one compatible system for locks specified in this section and those specified in related sections.
  - b. Proprietary Keyway: Provide written guarantee from the manufacturer that the Keyway used on this project is for the exclusive use of the Owner on a regional basis..
2. Master Keying
  - a. Provide level 3 grandmaster key system. As defined in (DHI) "Keying Systems and Nomenclature".
  - b. Provide factory established key system and keying of cylinders.
    - 1). Arrange for manufacturer to maintain permanent key identification and registration records.
3. Keys
  - a. Replacement Keys: available only from the manufacturer upon written authorization from the Owner.
  - b. Stamping of Keys: Stamp keys with an identification code in accordance with "Keying Procedures, Systems, and Nomenclature" published by DHI.
  - c. Quantity:
    - 1) Change keys:
      - a. Allow for four (4) change keys per lock cylinder.
      - b. Furnish a minimum of six (6) keys per key set, remaining keys as instructed by the Owner.
    - 2) Master level keys:
      - a. Furnish a minimum of ten (10) of each masterkey and six (6) of each master level key above the grandmaster.
      - d. Material: Nickel silver alloy.
      - e. Minimum size: 1" x 3" long 1/8 "thick,
4. Cylinders
  - a. Marking of Cylinders: Using a black indelible ink pen, mark body of cylinders with an identification code in accordance with "Keying Procedures, Systems, and Nomenclature" published by DHI.
  - b. Standard compliance
    - 1) Listed under UL 437.
    - 2) ANSI/BHMA A156.30 standard for High Security Cylinders.
    - 3) ASTM 1577 6.6 standards for Correctional Cylinders
5. Temporary Construction Security
  - a. Provide temporary construction cylinders and keys for exterior doors, automatically locking doors where security is required, and doors to rooms used for storage.
    - 1) Temporary cylinders and keys remain the property of the contractor.
  - b. Provide temporary blank strike plates for lock bolt receivers to prevent automatic locking of doors where temporary construction cylinders are not used and security at the door during construction is not required.

## 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 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" grooves on side pins designed to catch picking tools
- 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

### Warranty:

- ASSA guarantees its cylinders against defective workmanship or wear resulting from defects for life

### Certification:

- All ASSA Twin Series Mortise cylinders are U.L. 437 listed as well as ASTM F 1577 6.6 listed for standard test methods for detention Locks.

### Technical Information:

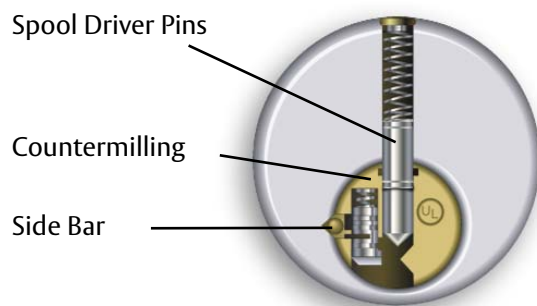
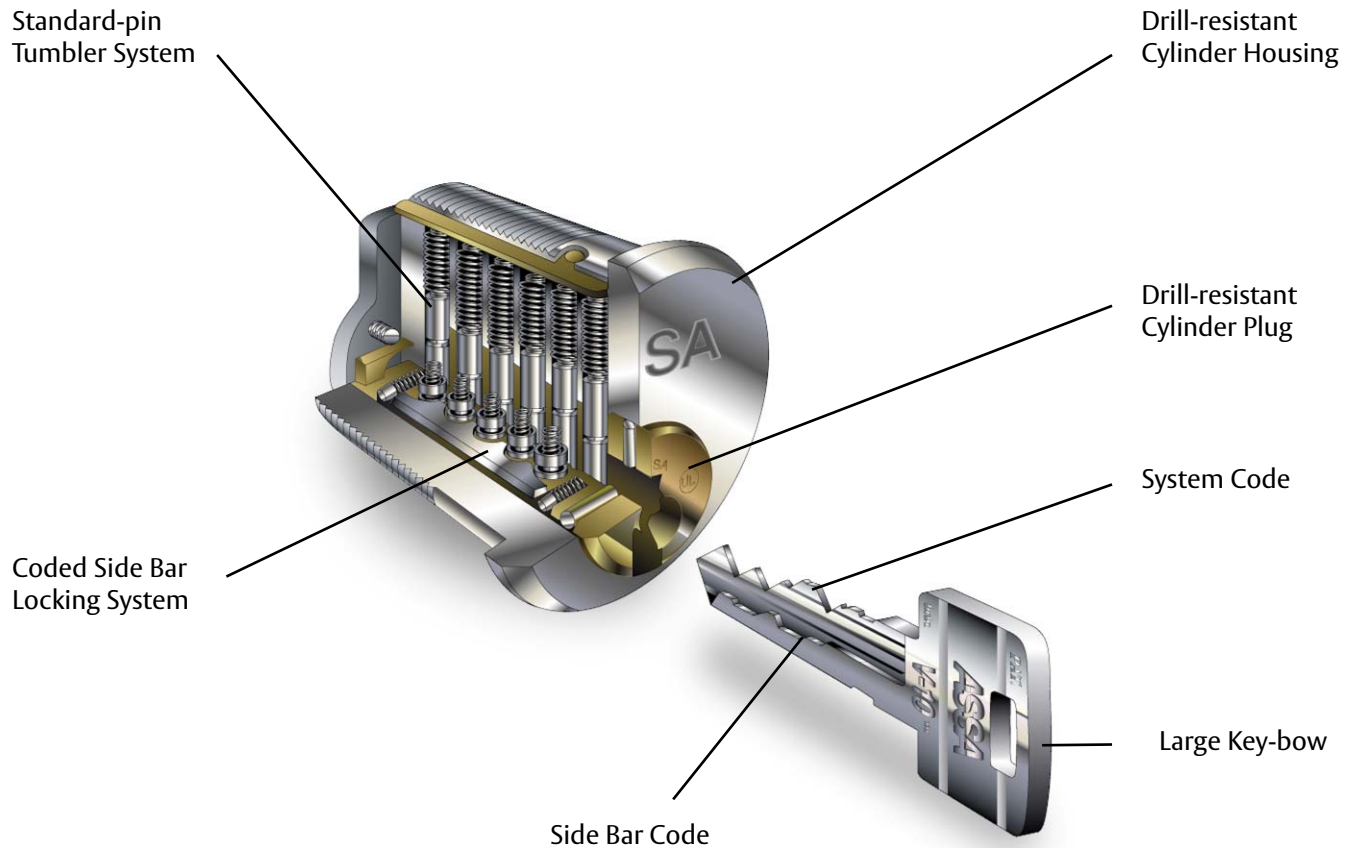
- Available in cylinder lengths 1-1/8" through 2" in 1/8" increments
- Available with limited rotation and/or unidirectional features
- 13 cam options available
- Cylinder housing and plug are made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

### Finishes:

<u>BHMA Symbol</u>	<u>U.S. Symbol</u>	<u>Euro Finishes</u>	<u>Description</u>
625	US 26	11	Bright Chrome
626	US 26D	13	Satin Chrome
605	US 3	20	Bright Brass
606	US 4	23	Satin Brass
612	US 10	33	Satin Bronze
624	US 10B	46	Dark Oxidized Bronze

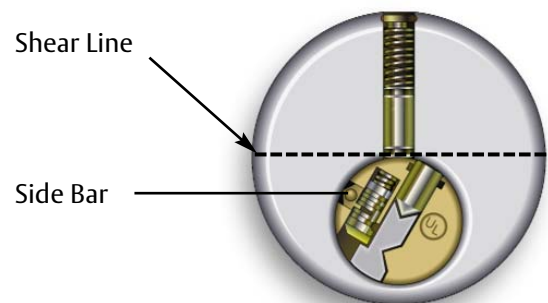


## Mortise Cylinders Exploded View



### No key inserted:

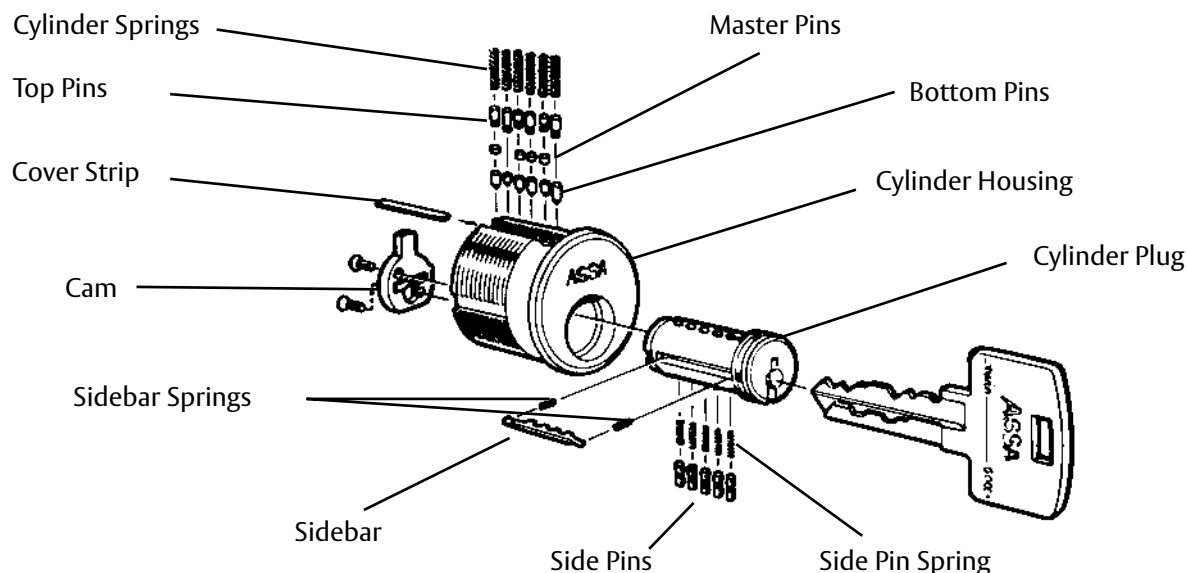
- Standard pins block the shear line
- Side bar rests in groove of cylinder housing, blocking movement of plug



### 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

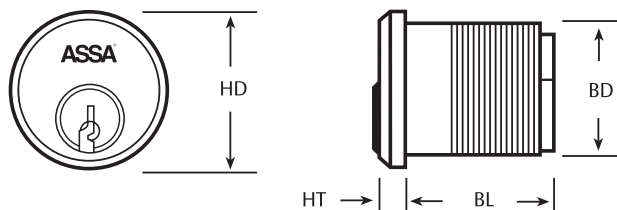
## Mortise Cylinders Exploded View



## Mortise Cylinders Specifications

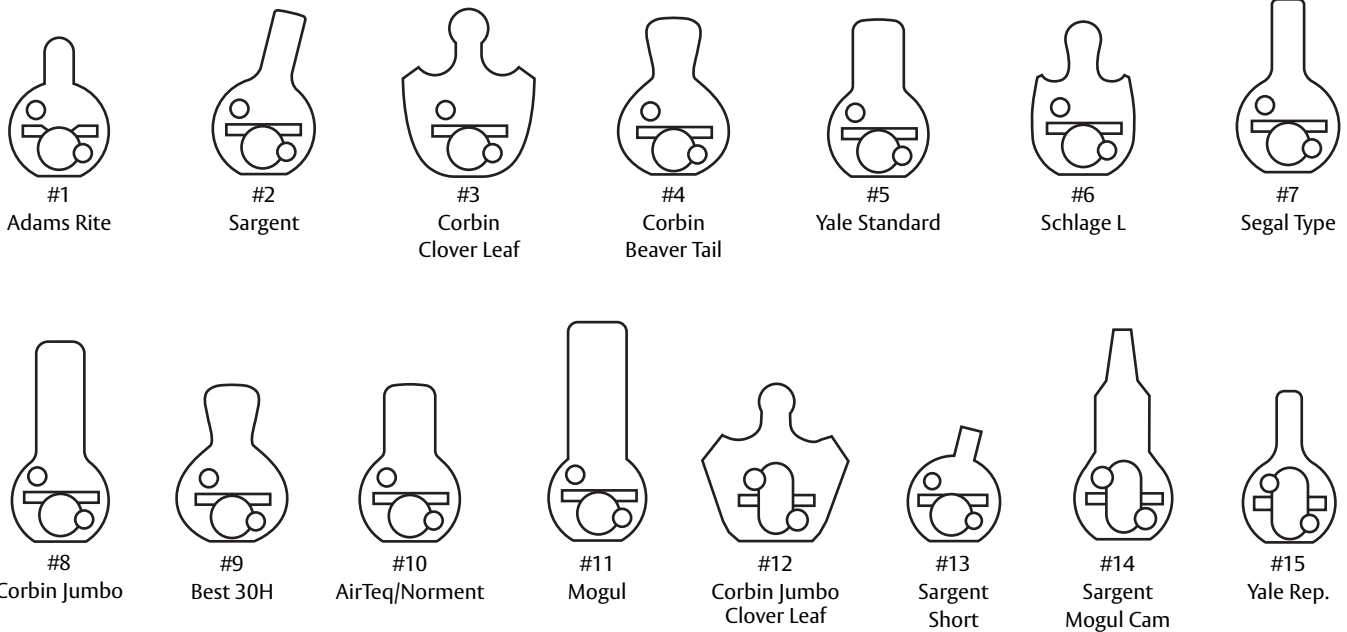
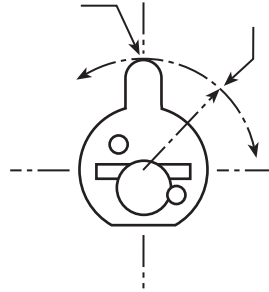
### Mortise Cylinder Key:

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



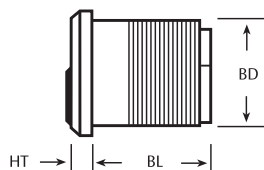
Description	HD – Head Diameter	HT – Head Thickness	BL – Body Length w/Cam	BD – Body Diameter
1-1/8" Mortise Cylinders	1.366" (34.7mm)	0.138" (3.5mm)	1.125" (28.575mm)	1.157" (29.387mm)
1-1/4" Mortise Cylinders	1.366" (34.7mm)	0.138" (3.5mm)	1.25" (31.75mm)	1.157" (29.387mm)
1-3/8" Mortise Cylinders	1.366" (34.7mm)	0.138" (3.5mm)	1.375" (34.925mm)	1.157" (29.387mm)
1-1/2" Mortise Cylinders	1.366" (34.7mm)	0.138" (3.5mm)	1.5" (38.1mm)	1.157" (29.387mm)
1-5/8" Mortise Cylinders	1.366" (34.7mm)	0.138" (3.5mm)	1.625" (41.275mm)	1.157" (29.387mm)
1-3/4" Mortise Cylinders	1.366" (34.7mm)	0.138" (3.5mm)	1.75" (44.45mm)	1.157" (29.387mm)
1-7/8" Mortise Cylinders	1.366" (34.7mm)	0.138" (3.5mm)	1.875" (47.625mm)	1.157" (29.387mm)
2" Mortise Cylinders	1.366" (34.7mm)	0.138" (3.5mm)	2.0" (50.8mm)	1.157" (29.387mm)
Corbin Jumbo Mortise Cylinder	1.648" (41.9mm)	0.138" (3.5mm)	1.125" (28.575mm)	1.492" (37.896mm)
ASSA Segal Cylinder	1.439" (36.6mm)	0.148" (3.759mm)	1.377" (34.975mm)	1.367" (34.721mm)
ASSA Otis Elevator Cylinder	0.595" (15.113mm)	0.110" (2.794mm)	1.377" (34.975mm)	1.157" (29.387mm)

## Available Cams for Mortise Locks



Cam #	Description	RA – Head Radius	RB – Overall Radius
#1	Adams Rite Cam	0.118" (3mm)	0.555" (14.1mm)
#2	Sargent Cam	N/A	0.709" (18.0mm)
#3	Corbin Clover Leaf Cam	0.114" (2.9mm)	0.602" (15.3mm)
#4	Corbin Beaver Tail Cam	N/A	0.732" (18.6mm)
#5	Yale Standard Cam	N/A	0.709" (18.0mm)
#6	Schlage "L" Cam	0.124" (3.15mm)	0.516" (13.1mm)
#7	Segal Type Cam	N/A	0.779" (19.8mm)
#8	Corbin Jumbo Cam	N/A	0.914" (23.2mm)
#9	Best 30H Cam	0.114" (2.9mm)	0.602" (15.3mm)
#10	AirTeq/Norment Cam	N/A	0.787" (18.7mm)
#11	Mogul Cam	N/A	1.165" (29.6mm)
#12	Corbin Jumbo Clover Leaf	0.114" (2.9mm)	0.828" (21.0mm)
#13	Sargent Short Cam	N/A	0.515" (13.0mm)
#14	Sargent Mogul Cam	N/A	1.043" (26.49mm)
#15	Yale Replacement Cam	0.308" (7.82mm)	0.742" (18.8mm)

# Mortise Cylinders

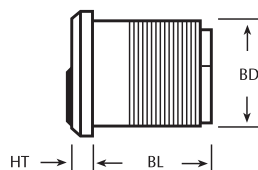

**Mortise Cylinder Key:**

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

Model#/Cam	Notes	Size	Description	HD	HT	BL	BD
<b>Twin V-10</b>							
V6551- (Specify Cam)	†	1-1/8"	Twin V-10 Mortise Cylinder	1.366"	0.138"	1.125"	1.157"
V6552- (Specify Cam)	†	1-1/4"	Twin V-10 Mortise Cylinder	1.366"	0.138"	1.25"	1.157"
V6553- (Specify Cam)		1-3/8"	Twin V-10 Mortise Cylinder	1.366"	0.138"	1.375"	1.157"
V6554- (Specify Cam)		1-1/2"	Twin V-10 Mortise Cylinder	1.366"	0.138"	1.50"	1.157"
V6555- (Specify Cam)		1-5/8"	Twin V-10 Mortise Cylinder	1.366"	0.138"	1.625"	1.157"
V6556- (Specify Cam)		1-3/4"	Twin V-10 Mortise Cylinder	1.366"	0.138"	1.75"	1.157"
V6557- (Specify Cam)		1-7/8"	Twin V-10 Mortise Cylinder	1.366"	0.138"	1.875"	1.157"
V6558- (Specify Cam)		2"	Twin V-10 Mortise Cylinder	1.366"	0.138"	2.0"	1.157"
<b>Twin Exclusive</b>							
E6551- (Specify Cam)	†	1-1/8"	Twin Exclusive Mortise Cylinder	1.366"	0.138"	1.125"	1.157"
E6552- (Specify Cam)	†	1-1/4"	Twin Exclusive Mortise Cylinder	1.366"	0.138"	1.25"	1.157"
E6553- (Specify Cam)		1-3/8"	Twin Exclusive Mortise Cylinder	1.366"	0.138"	1.375"	1.157"
E6554- (Specify Cam)		1-1/2"	Twin Exclusive Mortise Cylinder	1.366"	0.138"	1.50"	1.157"
E6555- (Specify Cam)		1-5/8"	Twin Exclusive Mortise Cylinder	1.366"	0.138"	1.625"	1.157"
E6556- (Specify Cam)		1-3/4"	Twin Exclusive Mortise Cylinder	1.366"	0.138"	1.75"	1.157"
E6557- (Specify Cam)		1-7/8"	Twin Exclusive Mortise Cylinder	1.366"	0.138"	1.875"	1.157"
E6558- (Specify Cam)		2"	Twin Exclusive Mortise Cylinder	1.366"	0.138"	2.0"	1.157"
<b>Twin 6000 Classic</b>							
6551- (Specify Cam)	†	1-1/8"	Twin 6000 Classic Mortise Cylinder	1.366"	0.138"	1.125"	1.157"
6552- (Specify Cam)	†	1-1/4"	Twin 6000 Classic Mortise Cylinder	1.366"	0.138"	1.25"	1.157"
6553- (Specify Cam)		1-3/8"	Twin 6000 Classic Mortise Cylinder	1.366"	0.138"	1.325"	1.157"
6554- (Specify Cam)		1-1/2"	Twin 6000 Classic Mortise Cylinder	1.366"	0.138"	1.50"	1.157"
6555- (Specify Cam)		1-5/8"	Twin 6000 Classic Mortise Cylinder	1.366"	0.138"	1.625"	1.157"
6556- (Specify Cam)		1-3/4"	Twin 6000 Classic Mortise Cylinder	1.366"	0.138"	1.75"	1.157"
6557- (Specify Cam)		1-7/8"	Twin 6000 Classic Mortise Cylinder	1.366"	0.138"	1.875"	1.157"
6558- (Specify Cam)		2"	Twin 6000 Classic Mortise Cylinder	1.366"	0.138"	2.0"	1.157"
<b>Twin Pro</b>							
6151- (Specify Cam)	†	1-1/8"	Twin Pro Mortise Cylinder	1.366"	0.138"	1.125"	1.157"
6152- (Specify Cam)	†	1-1/4"	Twin Pro Mortise Cylinder	1.366"	0.138"	1.25"	1.157"
6153- (Specify Cam)		1-3/8"	Twin Pro Mortise Cylinder	1.366"	0.138"	1.325"	1.157"
6154- (Specify Cam)		1-1/2"	Twin Pro Mortise Cylinder	1.366"	0.138"	1.50"	1.157"
6155- (Specify Cam)		1-5/8"	Twin Pro Mortise Cylinder	1.366"	0.138"	1.625"	1.157"
6156- (Specify Cam)		1-3/4"	Twin Pro Mortise Cylinder	1.366"	0.138"	1.75"	1.157"
6157- (Specify Cam)		1-7/8"	Twin Pro Mortise Cylinder	1.366"	0.138"	1.875"	1.157"
6158- (Specify Cam)		2"	Twin Pro Mortise Cylinder	1.366"	0.138"	2.0"	1.157"

† Available in special function cylinders, see page 4.

# Mortise Cylinders


**Mortise Cylinder Key:**

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

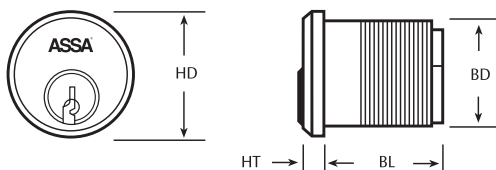
Model#/Cam	Notes	Size	Description	HD	HT	BL	BD
<b>Twin Maximum</b>							
8851- (Specify Cam)	†	1-1/8"	Twin Maximum Mortise Cylinder	1.366"	0.138"	1.125"	1.157"
8852- (Specify Cam)	†	1-1/4"	Twin Maximum Mortise Cylinder	1.366"	0.138"	1.25"	1.157"
8853- (Specify Cam)		1-3/8"	Twin Maximum Mortise Cylinder	1.366"	0.138"	1.375"	1.157"
8854- (Specify Cam)		1-1/2"	Twin Maximum Mortise Cylinder	1.366"	0.138"	1.50"	1.157"
8855- (Specify Cam)		1-5/8"	Twin Maximum Mortise Cylinder	1.366"	0.138"	1.625"	1.157"
8856- (Specify Cam)		1-3/4"	Twin Maximum Mortise Cylinder	1.366"	0.138"	1.75"	1.157"
8857- (Specify Cam)		1-7/8"	Twin Maximum Mortise Cylinder	1.366"	0.138"	1.875"	1.157"
8858- (Specify Cam)		2"	Twin Maximum Mortise Cylinder	1.366"	0.138"	2.0"	1.157"
<b>Twin Maximum Medium Security</b>							
2851- (Specify Cam)	†	1-1/8"	Twin Maximum Medium Security Mortise Cylinder	1.366"	0.138"	1.125"	1.157"
2852- (Specify Cam)	†	1-1/4"	Twin Maximum Medium Security Mortise Cylinder	1.366"	0.138"	1.25"	1.157"
<b>Twin Low</b>							
L651- (Specify Cam)		1-1/8"	Twin Low Mortise Cylinder	1.366"	0.138"	1.125"	1.157"
L652- (Specify Cam)		1-1/4"	Twin Low Mortise Cylinder	1.366"	0.138"	1.25"	1.157"
L653- (Specify Cam)		1-3/8"	Twin Low Mortise Cylinder	1.366"	0.138"	1.375"	1.157"
L654- (Specify Cam)		1-1/2"	Twin Low Mortise Cylinder	1.366"	0.138"	1.50"	1.157"
L655- (Specify Cam)		1-5/8"	Twin Low Mortise Cylinder	1.366"	0.138"	1.625"	1.157"
L656- (Specify Cam)		1-3/4"	Twin Low Mortise Cylinder	1.366"	0.138"	1.75"	1.157"
L657- (Specify Cam)		1-7/8"	Twin Low Mortise Cylinder	1.366"	0.138"	1.875"	1.157"
L658- (Specify Cam)		2"	Twin Low Mortise Cylinder	1.366"	0.138"	2.0"	1.157"
<b>Twin 600 Series Classic</b>							
651- (Specify Cam)		1-1/8"	Twin 600 Series Classic Mortise Cylinder	1.366"	0.138"	1.125"	1.157"
652- (Specify Cam)		1-1/4"	Twin 600 Series Classic Mortise Cylinder	1.366"	0.138"	1.25"	1.157"
653- (Specify Cam)		1-3/8"	Twin 600 Series Classic Mortise Cylinder	1.366"	0.138"	1.375"	1.157"
654- (Specify Cam)		1-1/2"	Twin 600 Series Classic Mortise Cylinder	1.366"	0.138"	1.50"	1.157"
655- (Specify Cam)		1-5/8"	Twin 600 Series Classic Mortise Cylinder	1.366"	0.138"	1.625"	1.157"
656- (Specify Cam)		1-3/4"	Twin 600 Series Classic Mortise Cylinder	1.366"	0.138"	1.75"	1.157"
657- (Specify Cam)		1-7/8"	Twin 600 Series Classic Mortise Cylinder	1.366"	0.138"	1.875"	1.157"
658- (Specify Cam)		2"	Twin 600 Series Classic Mortise Cylinder	1.366"	0.138"	2.0"	1.157"

† Available in special function cylinders, see page 4.

– Twin Maximum available with C4 CLIQ™ Technology. Example: 8851-1 x **CLIQ** x 626 x Sidebar x Comp







# Mortise Cylinders



**Mortise Cylinder Key:**

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

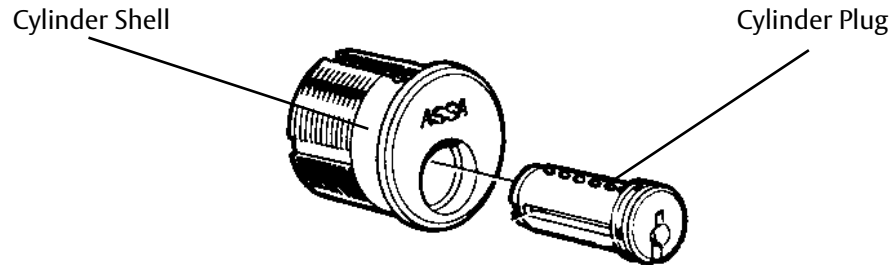
## Corbin Jumbo, ASSA Segal, ASSA Otis Elevator Mortise Cylinders

Model#/Cam	Notes	Description	HD	HT	BL	BD
<b>Twin V-10</b>						
V7551-8	†	<b>Corbin Jumbo</b> Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
V7551-12	†	<b>Corbin Jumbo</b> Mortise Cylinder w/ Cor. Jumbo Clover Cam	1.648"	0.138"	1.125"	1.492"
V6573		<b>Segal</b> Inside Mortise Cylinder with Cam	1.439"	0.148"	1.377"	1.367"
V6551E		<b>Otis Elevator</b> Cylinder	0.595"	0.110"	1.377"	1.157"
<b>Twin Exclusive</b>						
E7551-8	†	<b>Corbin Jumbo</b> Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
E7551-12	†	<b>Corbin Jumbo</b> Mortise Cylinder w/ Cor. Jumbo Clover Cam	1.648"	0.138"	1.125"	1.492"
E6573		<b>Segal</b> Inside Cylinder with Cam	1.439"	0.148"	1.377"	1.367"
E6551E		<b>Otis Elevator</b> Cylinder	0.595"	0.110"	1.377"	1.157"
<b>Twin 6000 Classic</b>						
7551-8	†	<b>Corbin Jumbo</b> Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
7551-12	†	<b>Corbin Jumbo</b> Mortise Cylinder w/ Cor. Jumbo Clover Cam	1.648"	0.138"	1.125"	1.492"
6573		<b>Segal</b> Inside cyl. with Cam	1.439"	0.148"	1.377"	1.367"
6551E		<b>Otis Elevator</b> Cylinder	0.595"	0.110"	1.377"	1.157"
<b>Twin Pro</b>						
7151-8	†	<b>Corbin Jumbo</b> Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
7151-12	†	<b>Corbin Jumbo</b> Mortise Cylinder w/ Cor. Jumbo Clover Cam	1.648"	0.138"	1.125"	1.492"
6173		<b>Segal</b> Inside cyl. with Cam	1.439"	0.148"	1.377"	1.367"
6151E		<b>Otis Elevator</b> Cylinder	0.595"	0.110"	1.377"	1.157"
<b>Twin Maximum</b>						
7851-8	† 	<b>Corbin Jumbo</b> Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
7851-12	† 	<b>Corbin Jumbo</b> Mortise Cylinder w/ Cor. Jumbo Clover Cam	1.648"	0.138"	1.125"	1.492"
8873		<b>Segal</b> Inside cyl. with Cam	1.439"	0.148"	1.377"	1.367"
8851E		<b>Otis Elevator</b> Cylinder	0.595"	0.110"	1.377"	1.157"
<b>Twin Low</b>						
L751-8		<b>Corbin Jumbo</b> Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
L751-12		<b>Corbin Jumbo</b> Mortise Cylinder w/ Cor. Jumbo Clover Cam	1.648"	0.138"	1.125"	1.492"
<b>Twin Low 600 Series Classic</b>						
751-8		<b>Corbin Jumbo</b> Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
751-12		<b>Corbin Jumbo</b> Mortise Cylinder w/ Cor. Jumbo Clover Cam	1.648"	0.138"	1.125"	1.492"

† Available in special function cylinders, see page 4.

 – Twin Maximum available with C4 CLIQ™ Technology. Example: 7851-8 x **CLIQ** x 626 x Sidebar x Comp

## Mortise Component Parts



Model#	Notes	Description
<b>Twin V-10</b>		
867429	*	1-1/8" Cylinder Shell
867430	*	1-1/4" Cylinder Shell
867431	*	1-3/8" Cylinder Shell
867432	*	1-1/2" Cylinder Shell
867433	*	1-5/8" Cylinder Shell
867434	*	1-3/4" Cylinder Shell
867435	*	1-7/8" Cylinder Shell
867436	*	2" Cylinder Shell
807987	*	Corbin Jumbo 1-1/8" Shell
353970	*	1-1/8" Cylinder Plug
353971	*	1-1/4" Cylinder Plug
353972	*	1-3/8" Cylinder Plug
353973	*	1-1/2" Cylinder Plug
353974	*	1-5/8" Cylinder Plug
353975	*	1-3/4" Cylinder Plug
353976	*	1-7/8" Cylinder Plug
353977	*	2" Cylinder Plug

<b>Twin Exclusive/Twin 6000 Classic</b>		
867429	*	1-1/8" Cylinder Shell
867430	*	1-1/4" Cylinder Shell
867431	*	1-3/8" Cylinder Shell
867432	*	1-1/2" Cylinder Shell
867433	*	1-5/8" Cylinder Shell
867434	*	1-3/4" Cylinder Shell
867435	*	1-7/8" Cylinder Shell
867436	*	2" Cylinder Shell
807987	*	Corbin Jumbo 1-1/8" Shell
367019	*†	1-1/8" Cylinder Plug
367020	*†	1-1/4" Cylinder Plug
367021	*†	1-3/8" Cylinder Plug
367022	*†	1-1/2" Cylinder Plug
367023	*†	1-5/8" Cylinder Plug
367024	*†	1-3/4" Cylinder Plug
367025	*†	1-7/8" Cylinder Plug
367026	*†	2" Cylinder Plug
907050		Corbin Jumbo Cyl. Thread Adapter

<b>Twin Pro/Twin Maximum</b>		
867429	*	1-1/8" Cylinder Shell
867430	*	1-1/4" Cylinder Shell
867431	*	1-3/8" Cylinder Shell
867432	*	1-1/2" Cylinder Shell
867433	*	1-5/8" Cylinder Shell
867434	*	1-3/4" Cylinder Shell
867435	*	1-7/8" Cylinder Shell
867436	*	2" Cylinder Shell
807987	*	Corbin Jumbo 1-1/8" Shell
356955	*†	1-1/8" Cylinder Plug
356956	*†	1-1/4" Cylinder Plug
356957	*†	1-3/8" Cylinder Plug
356958	*†	1-1/2" Cylinder Plug
356959	*†	1-5/8" Cylinder Plug
356960	*†	1-3/4" Cylinder Plug
356961	*†	1-7/8" Cylinder Plug
356962	*†	2" Cylinder Plug

\* – Indicates Finished Components.

† – Specify Profile OP4 for Twin Pro or OM7 for Twin Maximum.

## High Security Mogul Cylinders

ASSA Mogul cylinders are designed to provide the maximum level of security and durability. Available for ADTEC, 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. As with all ASSA high security cylinders, our patented key control ensures the ultimate protection against unauthorized key duplication.



### 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 guarantees its cylinders against defective workmanship or wear resulting from defects for life

### Certification:

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

### Technical Information:

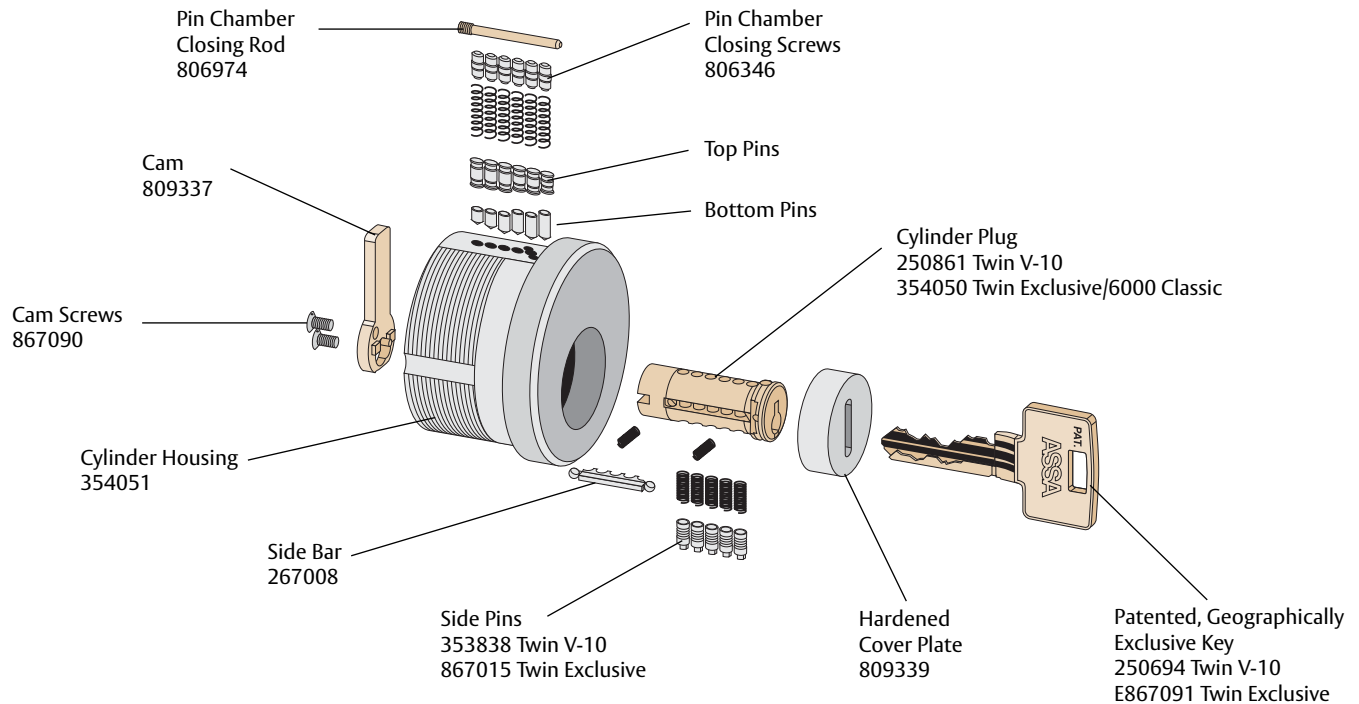
- Available in 1-1/8" and 1-1/2" lengths
- Available with limited rotation and/or unidirectional features
- Cylinder housing and plug are made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

### Finishes:

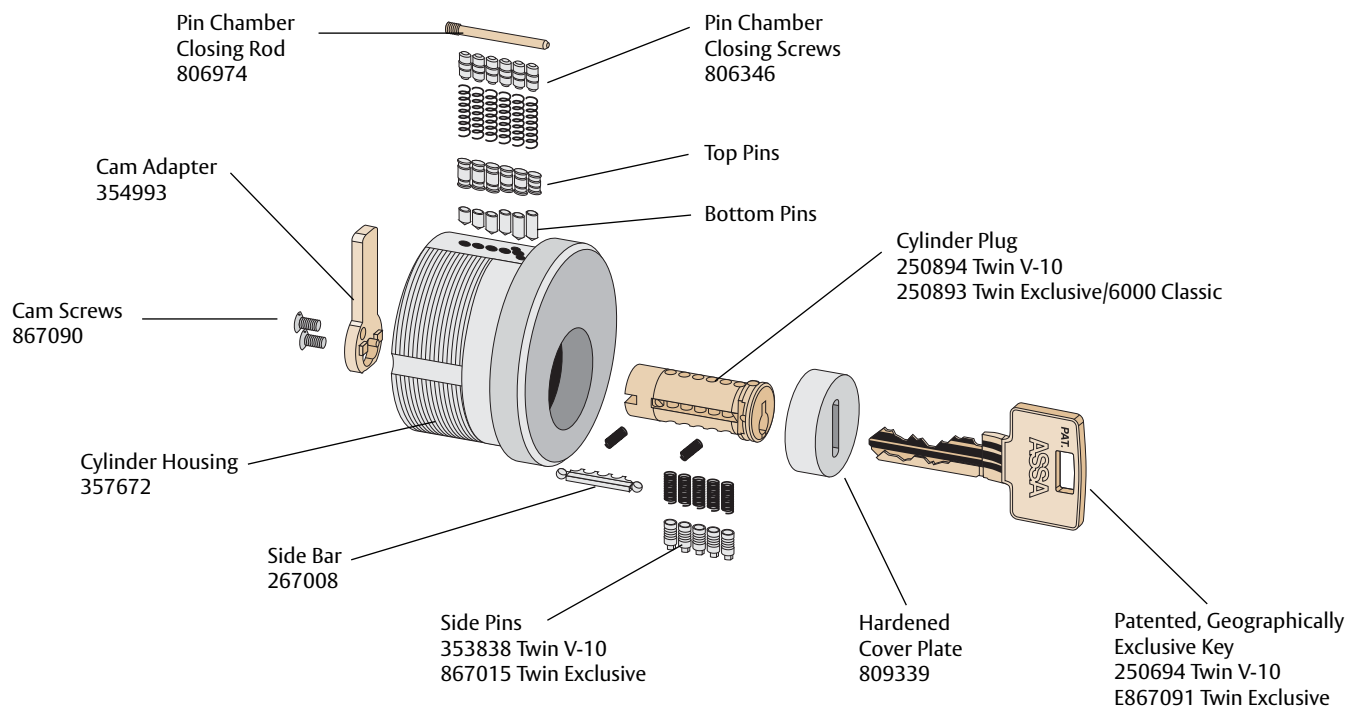
<u>BHMA Symbol</u>	<u>U.S. Symbol</u>	<u>Euro Finish</u>	<u>Description</u>
626	US 26D	13	Satin Chrome
606	US 4	23	Satin Brass

# High Security Mogul Cylinders Exploded View

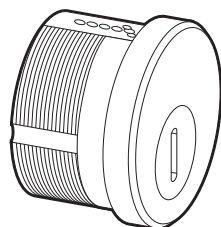
## 1-1/8" Mogul Cylinder



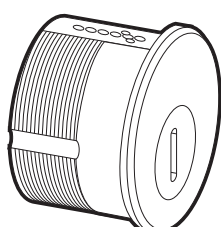
## 1-1/2" Mogul Cylinder



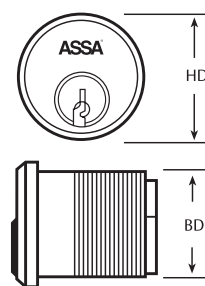
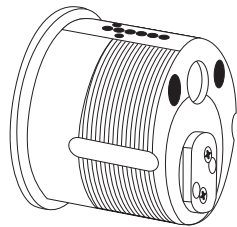
## High Security Mogul Cylinders



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



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



HT → | ← BL →  
**Mortise Cylinder Key:**

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

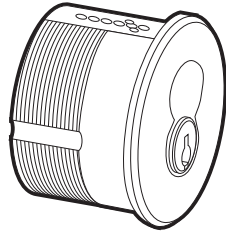
Model#/Cam	Notes	Size	Description	HD	HT	BL	BD
<b>Twin V-10 Mogul Cylinders</b>							
V8551-11	†	1-1/8"	AirTeq/Norment Cylinder with Mogul Cam	2.245"	0.340"	1.260"	2.0"
V8551-14	†	1-1/8"	AirTeq/Norment Cylinder with Sargent Mogul Cam	2.245"	0.340"	1.260"	2.0"
V8551BR	†	1-1/8"	R.R. Brink Cylinder with #11 Mogul Cam	2.245"	0.340"	1.260"	2.0"
V8551SS	†	1-1/2"	Southern Steel Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
V8551FA	†	1-1/2"	Folger Adam Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
V8551NA	†	1-1/2"	AirTeq/Norment Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
V8551AD	†	1-1/2"	Adtech Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
<b>Twin Exclusive Mogul Cylinders</b>							
E8551-11	†	1-1/8"	AirTeq/Norment Cylinder with Mogul Cam	2.245"	0.340"	1.260"	2.0"
E8551-14	†	1-1/8"	AirTeq/Norment Cylinder with Sargent Mogul Cam	2.245"	0.340"	1.260"	2.0"
E8551BR	†	1-1/8"	R.R. Brink Cylinder with #11 Mogul Cam	2.245"	0.340"	1.260"	2.0"
E8551SS	†	1-1/2"	Southern Steel Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
E8551FA	†	1-1/2"	Folger Adam Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
E8551NA	†	1-1/2"	AirTeq/Norment Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
E8551AD	†	1-1/2"	Adtech Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
<b>Twin 6000 Classic Mogul Cylinders</b>							
8551-11	†	1-1/8"	AirTeq/Norment Cylinder with Mogul Cam	2.245"	0.340"	1.260"	2.0"
8551-14	†	1-1/8"	AirTeq/Norment Cylinder with Sargent Mogul Cam	2.245"	0.340"	1.260"	2.0"
8551BR	†	1-1/8"	R.R. Brink Cylinder with #11 Mogul Cam	2.245"	0.340"	1.260"	2.0"
8551SS	†	1-1/2"	Southern Steel Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
8551FA	†	1-1/2"	Folger Adam Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
8551NA	†	1-1/2"	AirTeq/Norment Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
8551AD	†	1-1/2"	Adtech Cylinder without Cam	2.245"	0.120"	1.590"	2.0"

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

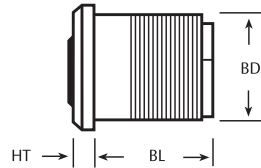
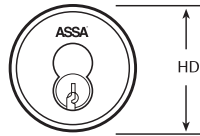
† Available in special function cylinders, see page 4.



# High Security Interchangeable Core Mogul Cylinders



1-1/2" IC Mogul Cylinder

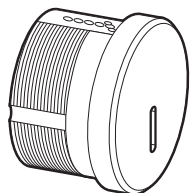


**Mortise Cylinder Key:**  
**HD** – Head Diameter  
**HT** – Head Thickness  
**BL** – Body Length (Includes Cam)  
**BD** – Body Diameter

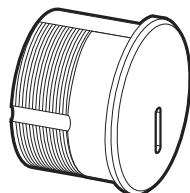
Model#/Cam	Notes	Size	Description	HD	HT	BL	BD
<b>Twin V-10 Interchangeable Core Mogul Cylinders</b>							
V8551NAIC		1-1/2"	AirTeq/Norment IC Cylinder with Mogul Cam	2.245"	0.120"	1.590"	2.0"
V8551BRIC		1-1/2"	R.R. Brink IC Cylinder with #11 Mogul Cam	2.245"	0.120"	1.590"	2.0"
V8551SSIC		1-1/2"	Southern Steel IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
V8551FAIC		1-1/2"	Folger Adam IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
V8551ADIC		1-1/2"	Adtech IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
<b>Twin Exclusive Interchangeable Core Mogul Cylinders</b>							
E8551NAIC		1-1/2"	AirTeq/Norment IC Cylinder with Mogul Cam	2.245"	0.120"	1.590"	2.0"
E8551BRIC		1-1/2"	R.R. Brink IC Cylinder with #11 Mogul Cam	2.245"	0.120"	1.590"	2.0"
E8551SSIC		1-1/2"	Southern Steel IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
E8551FAIC		1-1/2"	Folger Adam IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
E8551ADIC		1-1/2"	Adtech IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
<b>Twin 6000 Classic Interchangeable Core Mogul Cylinders</b>							
8551NAIC		1-1/2"	AirTeq/Norment IC Cylinder with Mogul Cam	2.245"	0.340"	1.260"	2.0"
8551BRIC		1-1/2"	R.R. Brink IC Cylinder with #11 Mogul Cam	2.245"	0.340"	1.260"	2.0"
8551SSIC		1-1/2"	Southern Steel IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
8551FAIC		1-1/2"	Folger Adam IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
8551ADIC		1-1/2"	Adtech IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
<b>ASSA 1-1/2" Temporary Interchangeable Construction Core Mogul Cylinders</b>							
8551NAICR		1-1/2"	AirTeq/Norment IC Cylinder with Mogul Cam	2.245"	0.340"	1.260"	2.0"
8551BRICR		1-1/2"	R.R. Brink IC Cylinder with #11 Mogul Cam	2.245"	0.340"	1.260"	2.0"
8551SSICR		1-1/2"	Southern Steel IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
8551FAICR		1-1/2"	Folger Adam IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
8551ADICR		1-1/2"	Adtech IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"

For temporary cores refer to Red Core on page 4.

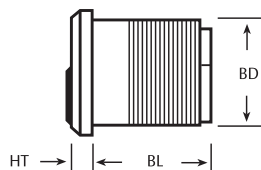
## High Security Mogul Component Parts



1-1/8" Dummy Cylinder



1-1/2" Dummy Cylinder



### 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
<b>ASSA Mogul Dummy Cylinders</b>							
8551DUM		1-1/8"	Mogul Dummy Cylinder	2.245"	0.340"	1.260"	2.0"
8551SSDUM		1-1/2"	Mogul Dummy Cylinder	2.245"	0.120"	1.590"	2.0"
<b>ASSA Mogul Interchangeable Core Housings</b>							
80601		1-1/2"	Mogul IC Housing	2.245"	0.120"	1.590"	2.0"

To order Interchangeable Cores separately – see pages 31-32 for details.

## Mogul Cylinder Parts

Model#	Description
<b>Twin V-10</b>	
354051	1-1/8" Mogul Cylinder Shell
357672	1-1/2" Mogul Cylinder Shell
250861	1-1/8" Mogul Cylinder Plug
250894	1-1/2" Mogul Cylinder Plug
354993	Cam Adaptor for 1-1/2" Cylinder
809339	Mogul Cylinder Plug Cover Plate
907035	Mogul Chamber Screw Wrench

Model#	Description
<b>Twin Exclusive</b>	
354051	1-1/8" Mogul Cylinder Shell
357672	1-1/2" Mogul Cylinder Shell
354050	1-1/8" Mogul Cylinder Plug
250893	1-1/2" Mogul Cylinder Plug
354993	Cam Adaptor for 1-1/2" Cylinder
809339	Mogul Cylinder Plug Cover Plate
907035	Mogul Chamber Screw Wrench

## Rim Cylinders

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” grooves on side pins designed to catch picking tools
- 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 guarantees its cylinders against defective workmanship or wear resulting from defects for life

### Certification:

- All ASSA Twin Series Rim cylinders are U.L. 437 Listed as well as ASTM F 1577 6.6 Certified for standard test methods for Detention Locks

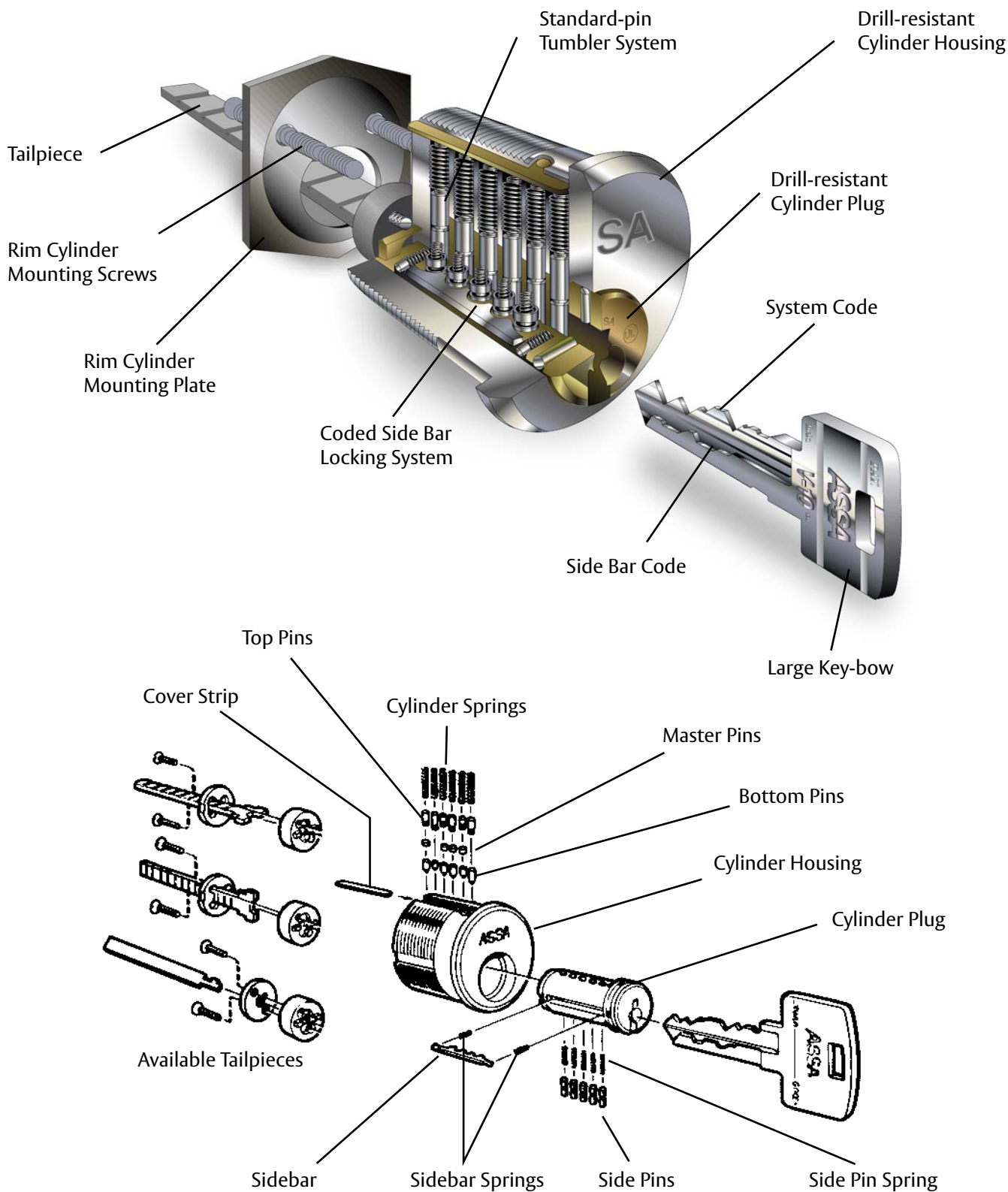
### Technical Information:

- 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

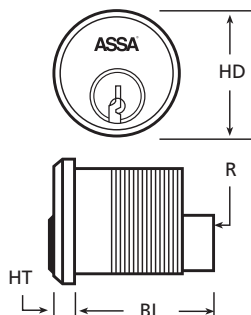
### Finishes:

<u>BHMA Symbol</u>	<u>U.S. Symbol</u>	<u>Euro Finish</u>	<u>Description</u>
625	US 26	11	Bright Chrome
626	US 26D	13	Satin Chrome
605	US 3	20	Bright Brass
606	US 4	23	Satin Brass
612	US 10	33	Satin Bronze
624	US 10B	46	Dark Oxidized Bronze

## Rim Cylinders Exploded View

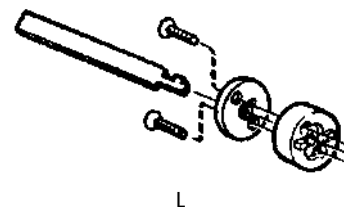
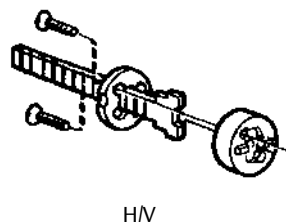


# Rim Cylinders


**Mortise Cylinder Key:**

**HD** – Head Diameter  
**HT** – Head Thickness  
**BL** – Body Length  
 (Includes Cam)  
**R** – Retainer

## Available Tailpieces



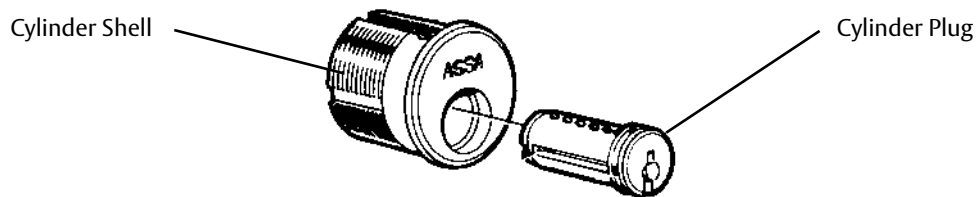
Model#/Tailpiece	Notes	Description	HD	HT	BL	BD
<b>Twin V-10 Rim Cylinders</b>						
V6551- (Specify Tailpiece)	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	0.060"
V7551- (Specify Tailpiece)	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	0.060"
V8551- (Specify Tailpiece)	†	ASSA Mogul (Detention) Cylinder	2.245"	0.340"	1.425"	2.0"
VS6551- (Specify Tailpiece)	†	Special SARGENT Cylinder (Drilled for SARGENT Devices)	1.366"	0.138"	1.290"	0.060"
<b>Twin Exclusive Rim Cylinders</b>						
E6551- (Specify Tailpiece)	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	0.060"
E7551- (Specify Tailpiece)	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	0.060"
E8551- (Specify Tailpiece)	†	ASSA Mogul (Detention) Cylinder	2.245"	0.340"	1.425"	2.0"
ES6551- (Specify Tailpiece)	†	Special SARGENT Cylinder (Drilled for SARGENT Devices)	1.366"	0.138"	1.290"	0.060"
<b>Twin 6000 Classic Rim Cylinders</b>						
6551- (Specify Tailpiece)	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	0.060"
7551- (Specify Tailpiece)	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	0.060"
8551- (Specify Tailpiece)	†	ASSA Mogul (Detention) Cylinder	2.245"	0.340"	1.425"	2.0"
S6551- (Specify Tailpiece)	†	Special SARGENT Cylinder (Drilled for SARGENT Devices)	1.366"	0.138"	1.290"	0.060"
<b>Twin Pro Rim Cylinders</b>						
6151- (Specify Tailpiece)	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	0.060"
7151- (Specify Tailpiece)	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	0.060"
S6151- (Specify Tailpiece)	†	Special SARGENT Cylinder (Drilled for SARGENT Devices)	1.366"	0.138"	1.290"	0.060"
<b>Twin Maximum Rim Cylinders</b>						
8851- (Specify Tailpiece)	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	0.060"
7851- (Specify Tailpiece)	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	0.060"
S8851- (Specify Tailpiece)	†	Special SARGENT Cylinder (Drilled for SARGENT Devices)	1.366"	0.138"	1.290"	0.060"
<b>Twin Maximum Medium Security Rim Cylinders</b>						
2851- (Specify Tailpiece)	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	0.060"
<b>Twin Low Rim Cylinders</b>						
L651- (Specify Tailpiece)		1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	0.060"
L751- (Specify Tailpiece)		Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	0.060"
LS651- (Specify Tailpiece)		Special SARGENT Cylinder (Drilled for SARGENT Devices)	1.366"	0.138"	1.290"	0.060"
<b>Twin Low 600 Series Rim Cylinders</b>						
651- (Specify Tailpiece)		1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	0.060"
751- (Specify Tailpiece)		Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	0.060"
S651- (Specify Tailpiece)		Special SARGENT Cylinder (Drilled for SARGENT Devices)	1.366"	0.138"	1.290"	0.060"

– Twin Maximum available with C4 CLIQ™ Technology. Example: 8851-H x **CLIQ** x 626 x Sidebar x Comp

† Available in special function cylinders, see page 4.



## Rim Cylinder Component Parts



Model#	Notes	Description
<b>Twin V-10</b>		
354947	*	SARGENT Drilled Rim Shell
867429	*	1-1/8" Cylinder Shell
807987	*	Corbin Jumbo 1-1/8" Shell
353970	*	1-1/8" Cylinder Plug
<b>Twin Exclusive/Twin 6000 Classic</b>		
354947	*	SARGENT Drilled Rim Shell
867429	*	1-1/8" Cylinder Shell
807987	*	Corbin Jumbo 1-1/8" Shell
367019	*†	1-1/8" Cylinder Plug
<b>Twin Pro/Max</b>		
354947	*	SARGENT Drilled Rim Shell
867429	*	1-1/8" Cylinder Shell
807987	*	Corbin Jumbo 1-1/8" Shell
356955	*†	1-1/8" Cylinder Plug

\* – Indicates Finished Components.

† – Specify Profile.

## Mortise and Rim 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 versatile cylinder is adaptable to a wide variety of manufacturers' locksets including the ASSA Number 2 padlock and ASSA 6000 deadbolt series and can be integrated into master keyed systems that use both standard and interchangeable cylinders. Available in the standard ASSA large format as well as the Schlage, Yale 6 pin, and Sargent 6 pin large formats, all ASSA Interchangeable core cylinders are listed under U.L. 437, a set of tests for determining the cylinder's physical resistance against various forms of attack and performance that features our patented key control ensuring the maximum protection from unauthorized key duplication.



### 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" grooves on side pins designed to catch picking tools

### Warranty:

- ASSA guarantees its cylinders against defective workmanship or wear resulting from defects for life

### Certification:

- All ASSA Interchangeable Core cylinders are U.L. 437 Listed as well as ASTM F 1577 6.6 Certified for standard test methods for Detention Locks

### Technical Information

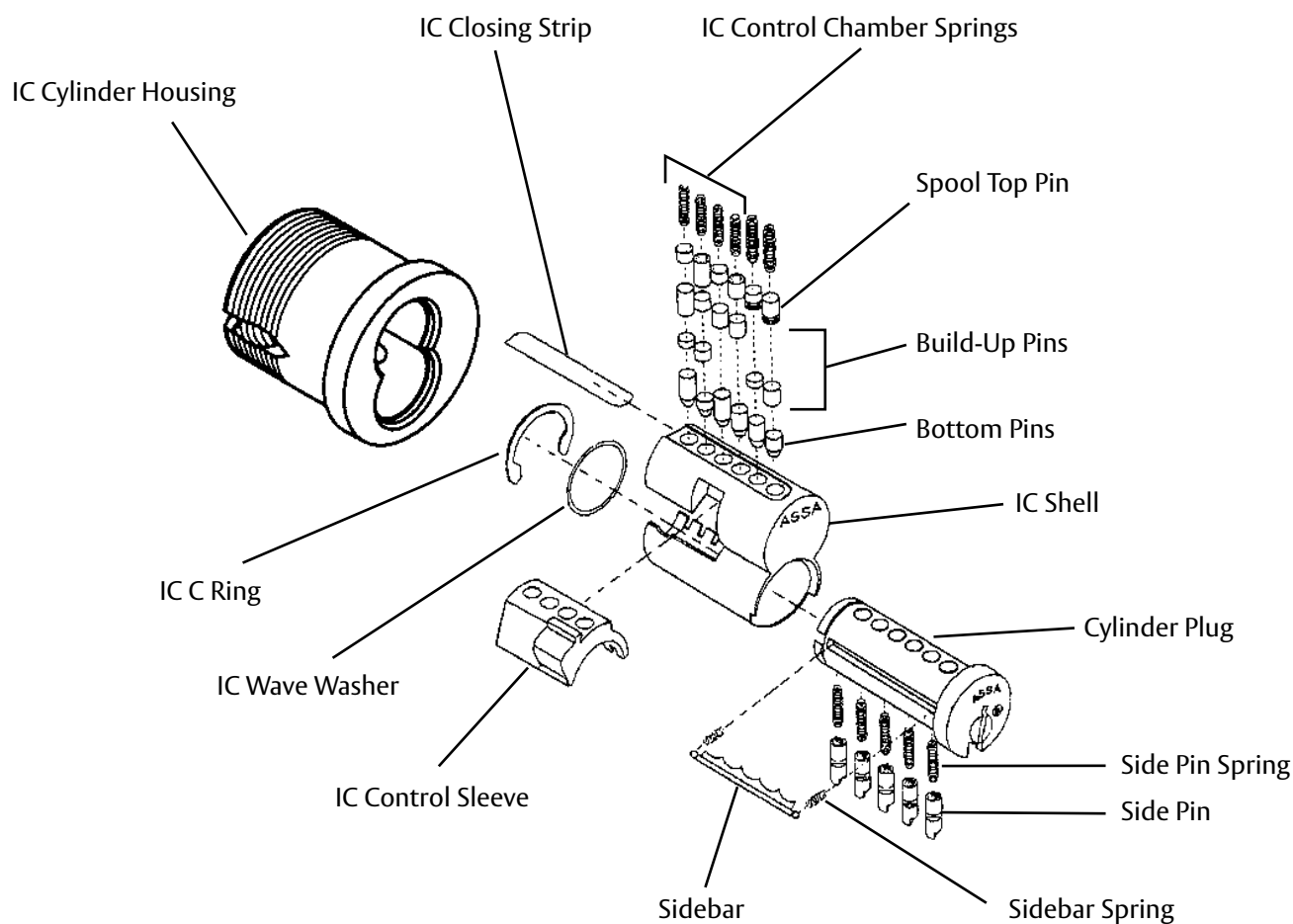
- Available for 1-1/4" mortise and rim cylinders
- Build-up pins in first four positions operate control feature
- Cylinder housing and interchangeable core are made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

### Finishes:

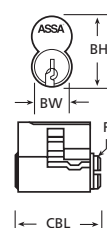
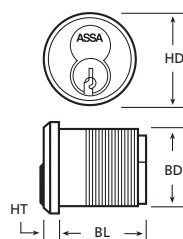
<u>BHMA Symbol</u>	<u>U.S. Symbol</u>	<u>Euro Finishes</u>	<u>Description</u>
625	US 26	11	Bright Chrome
626	US 26D	13	Satin Chrome
605	US 3	20	Bright Brass
606	US 4	23	Satin Brass
612	US 10	33	Satin Bronze
624	US 10B	46	Dark Oxidized Bronze

# Mortise and Rim Interchangeable Core Cylinders Exploded View

## ASSA Interchangeable Core



# 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  
 R – Retainer  
 CBL – IC Core Body Length

Model#/Cam/Tailpiece	Notes	Description	HD	HT	BL	BD	BH	BW	CBL	R
<b>Twin V-10 Mortise &amp; Rim IC Cylinders</b>										
V6552IC- (Specify Cam)		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
V6552IC- (Specify Tailpiece)		1-1/4" IC Rim Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.665"	1.247"	0.036"
V7551IC- (Specify Cam or Tailpiece)		1-1/4" Corbin Jumbo IC Mortise/Rim Cyl.	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
<b>Interchangeable Core Cylinders Only</b>										
V70600IC		1-1/4" ASSA IC Cylinder Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"
V90600IC	†	1-1/4" Sargent IC Cylinder Only	N/A	N/A	N/A	N/A	N/A	N/A	1.247"	0.036"
V10600IC		1-1/4" Schlage IC Cylinder Only	N/A	N/A	N/A	N/A	1.045"	0.628"	1.450"	0.036"
V80600IC		1-1/4" Yale Style IC Cylinder	N/A	N/A	N/A	N/A	1.045"	0.671"	1.415"	0.036"
V50600IC		1-1/4" Corbin Russwin IC Cylinder	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Twin Exclusive Mortise &amp; Rim IC Cylinders</b>										
E6552IC- (Specify Cam)		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
E6552IC- (Specify Tailpiece)		1-1/4" IC Rim Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.665"	1.247"	0.036"
E7551IC- (Specify Cam or Tailpiece)		1-1/4" Corbin Jumbo IC Mortise/Rim Cyl.	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
<b>Interchangeable Core Cylinders Only</b>										
E70600IC		1-1/4" ASSA IC Cylinder Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"
E90600IC	†	1-1/4" Sargent IC Cylinder Only	N/A	N/A	N/A	N/A	N/A	N/A	1.247"	0.036"
E10600IC		1-1/4" Schlage IC Cylinder Only	N/A	N/A	N/A	N/A	1.045"	0.628"	1.450"	0.036"
E80600IC		1-1/4" Yale Style IC Cylinder	N/A	N/A	N/A	N/A	1.045"	0.671"	1.415"	0.036"
E50600IC		1-1/4" Corbin Russwin IC Cylinder	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Twin 6000 Classic Mortise &amp; Rim IC Cylinders</b>										
6552IC- (Specify Cam)		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
6552IC- (Specify Tailpiece)		1-1/4" IC Rim Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.665"	1.247"	0.036"
7551IC- (Specify Cam or Tailpiece)		1-1/4" Corbin Jumbo IC Mortise/Rim Cyl.	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
<b>Interchangeable Core Cylinders Only</b>										
70600IC		1-1/4" ASSA IC Cylinder Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"
80600IC		1-1/4" Yale Style IC Cylinder	N/A	N/A	N/A	N/A	1.045"	0.671"	1.415"	0.036"
<b>Twin Pro Mortise &amp; Rim IC Cylinders</b>										
6152IC- (Specify Cam)		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
6152IC- (Specify Tailpiece)		1-1/4" IC Rim Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.665"	1.247"	0.036"
7151IC- (Specify Cam or Tailpiece)		1-1/4" Corbin Jumbo IC Mortise/Rim Cyl.	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
<b>Interchangeable Core Cylinders Only</b>										
61600IC		1-1/4" ASSA IC Cylinder Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"
69060IC	†	1-1/4" Sargent IC Cylinder Only	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
61060IC		1-1/4" Schlage IC Cylinder Only	N/A	N/A	N/A	N/A	1.045"	0.628"	1.450"	0.036"
68060IC		1-1/4" Yale Style IC Cylinder	N/A	N/A	N/A	N/A	1.045"	0.628"	1.450"	0.036"
65060IC		1-1/4" Corbin Russwin IC Cylinder	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

For temporary cores refer to Red Core on page 4.


† This cylinder needs Sargent Tailpiece Kit, see part # 867454 on page 85.

## Mortise and Rim IC Cylinders

Model#/Cam/Tailpiece	Notes	Description	HD	HT	BL	BD	BH	BW	CBL	R
<b>Twin Maximum Mortise &amp; Rim IC Cylinders</b>										
8552IC- (Specify Cam)		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
8552IC- (Specify Tailpiece)		1-1/4" IC Rim Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.665"	1.247"	0.036"
7851IC- (Specify Cam)		1-1/4" Corbin Jumbo IC Mortise/Rim Cyl.	1.643"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
7851IC- (Specify Tailpiece)		1-1/4" Corbin Jumbo IC Mortise/Rim Cyl.	1.643"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
<b>Interchangeable Core Cylinders Only</b>										
88600IC		1-1/4" ASSA IC Cylinder Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"
89600IC	† 	1-1/4" Sargent IC Cylinder Only	N/A	N/A	N/A	N/A	N/A	N/A	1.247"	0.036"
81060IC		1-1/4" Schlage IC Cylinder Only	N/A	N/A	N/A	N/A	1.045"	0.628"	1.450"	0.036"
88060IC		1-1/4" Yale Style IC Cylinder	N/A	N/A	N/A	N/A	1.045"	0.671"	1.415"	0.036"
85060IC		1-1/4" Corbin Russwin IC Cylinder	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Twin Maximum Medium Security Mortise &amp; Rim IC Cylinders</b>										
2852IC- (Specify Cam)		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
2852IC- (Specify Tailpiece)		1-1/4" IC Mortise Cylinder								
<b>Interchangeable Core Cylinders Only</b>										
28600IC		1-1/4" ASSA IC Cylinder Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"
29060IC	†	1-1/4" Sargent IC Cylinder Only	N/A	N/A	N/A	N/A	N/A	N/A	1.247"	0.036"
21060IC		1-1/4" Schlage IC Cylinder Only	N/A	N/A	N/A	N/A	1.045"	0.628"	1.450"	0.036"
28060IC		1-1/4" Yale Style IC Cylinder	N/A	N/A	N/A	N/A	1.045"	0.671"	1.415"	0.036"
<b>1-1/4" Temporary Interchangeable Construction Core Mortise/Rim Cylinder</b>										
6552ICR	*	1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	–	–	–	–
6552ICR	*	1-1/4" IC Rim Cylinder	1.366"	0.175"	1.125"	1.157"	–	–	–	–
<b>Interchangeable Core Housings</b>										
60601- (Specify Cam)	*	IC Housing	–	–	–	–	–	–	–	–
60601- (Specify Tailpiece)	*	IC Housing	–	–	–	–	–	–	–	–
60606- (Specify Cam)	*	1-3/4" IC Housing	–	–	–	–	–	–	–	–
80601- (Specify Cam)	*	1-1/2" Mogul IC Housing	–	–	–	–	–	–	–	–

For temporary cores refer to Red Core on page 4.

† This cylinder needs Sargent Tailpiece Kit, see part # 867454 on page 85.

 – Twin Maximum available with C4 CLIQ™ Technology..

Example: 8852IC-1 x **CLIQ** x 626 x Sidebar x Comp. For temporary cores refer to Red Core on page 4.

## Key-in-Knob/Lever Cylinders

ASSA Key in Knob/Key in Lever cylinders are designed to replace several original manufacturers' cylinders in their locksets offering the highest level of security available on the market today. These cylinders are manufactured to exact manufacturers' specifications to ensure precise fit and operation. ASSA Key in Knob/Key in Lever cylinders will improve the security of standard cylindrical locksets by Arrow, Corbin/Russwin, Falcon, Sargent, Schlage, Weiser, Yale and many other manufacturers. All ASSA Key in Knob/Key in Lever cylinders are listed under U.L. 437.



### Benefits:

- Designed to exact manufacturers' specifications
- Two independent locking mechanisms to ensure security and optimum pick resistance
- Inactive "false" grooves on side pins designed to catch picking tools
- Extremely close tolerances
- Can be easily rekeyed in the field
- Patented key control

### Warranty:

- ASSA guarantees its cylinders against defective workmanship or wear resulting from defects for life

### Certification:

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

### Technical Information:

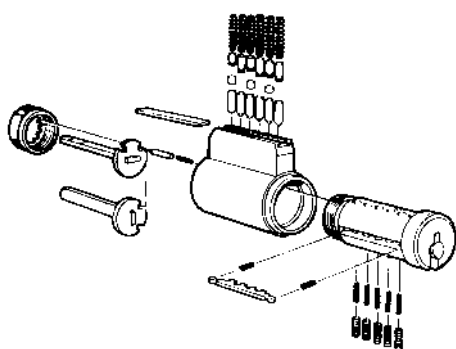
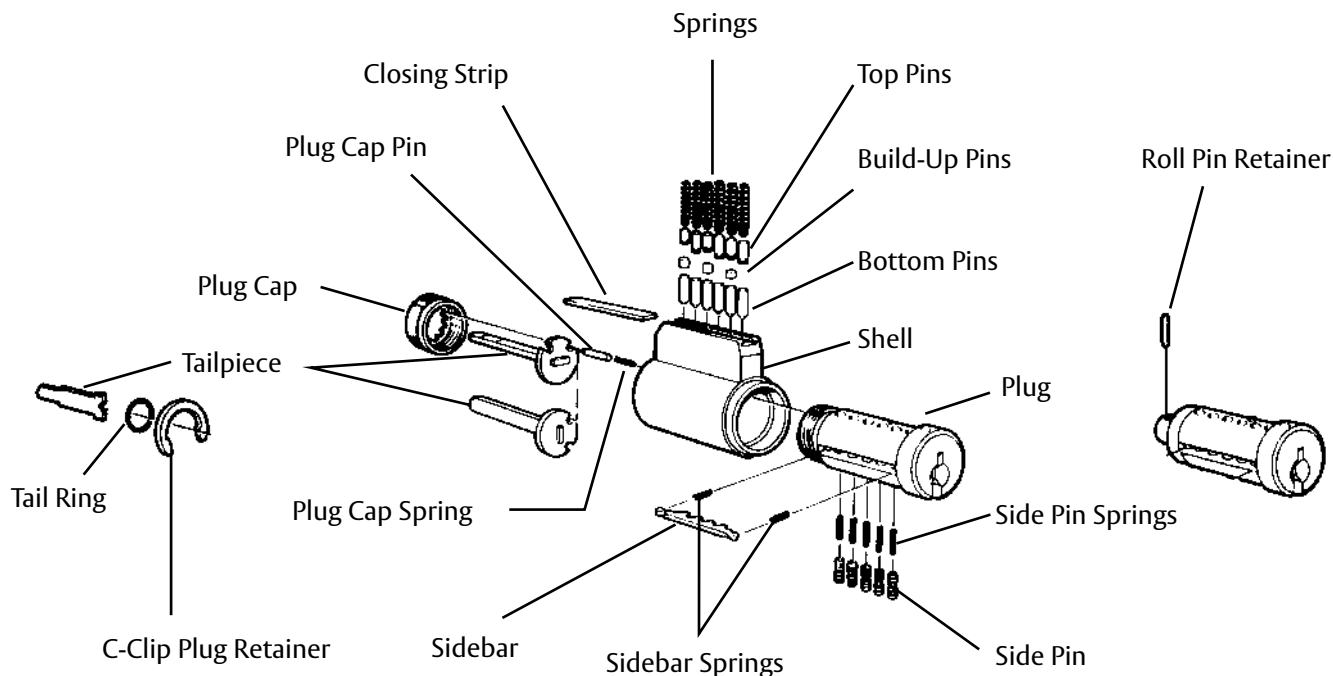
- Available in 16 different retrofit assemblies
- Cylinder shell and plug made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

### Finishes:

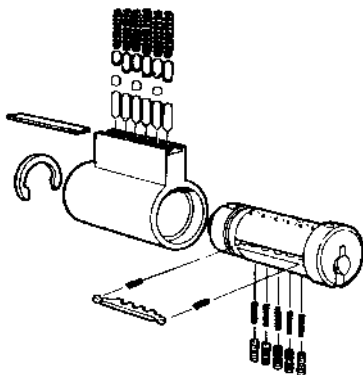
<u>BHMA Symbol</u>	<u>U.S. Symbol</u>	<u>Euro Finishes</u>	<u>Description</u>
625	US 26	11	Bright Chrome
626	US 26D	13	Satin Chrome
605	US 3	20	Bright Brass
606	US 4	23	Satin Brass
612	US 10	33	Satin Bronze
624	US 10B	46	Dark Oxidized Bronze



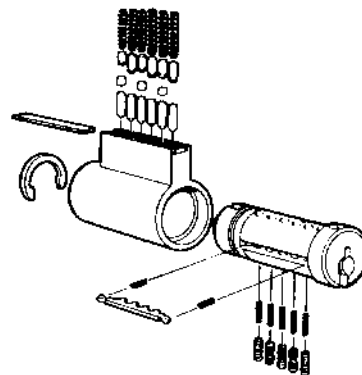
## Key-in-Knob/Levers Cylinders Exploded View



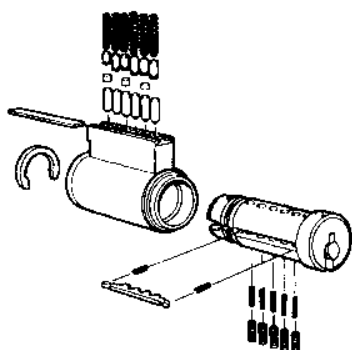
65611 – Schlage



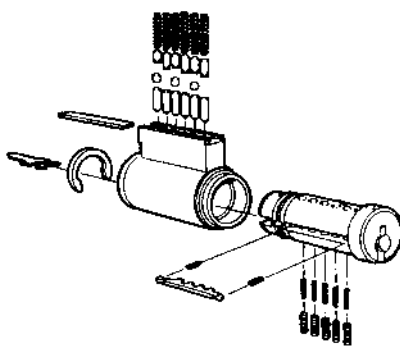
65631 – Yale



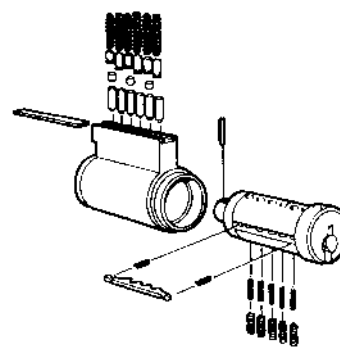
65632 – Yale



65651 – Corbin/Russwin

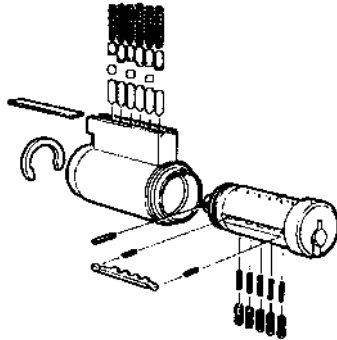


65652 – Corbin/Russwin

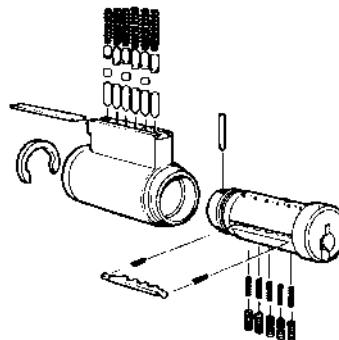


65653 – Corbin/Russwin

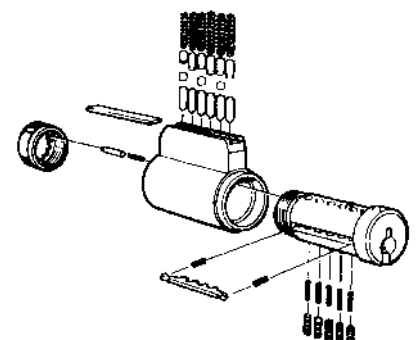
## Key-in-Knob/Levers Cylinders Exploded View



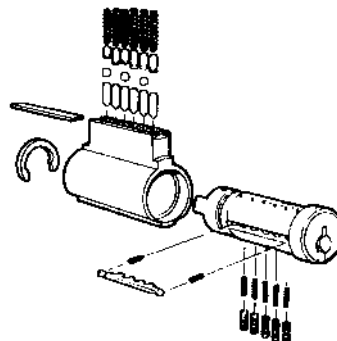
65654 – Corbin/Russwin



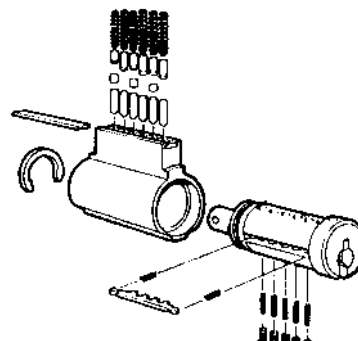
65655 – Corbin/Russwin



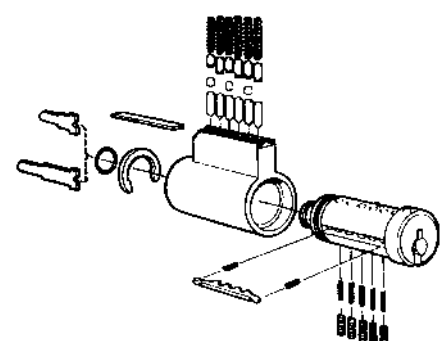
65661 – Falcon



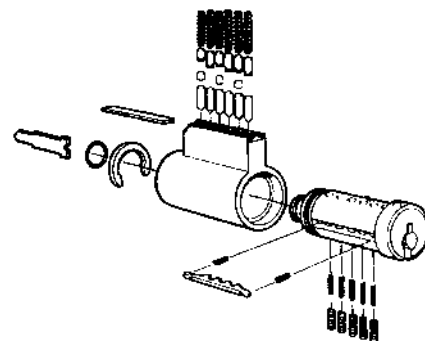
65671 – Sargent



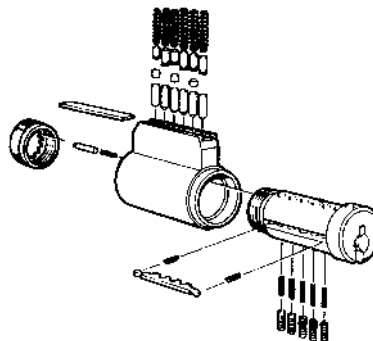
65672 – Sargent



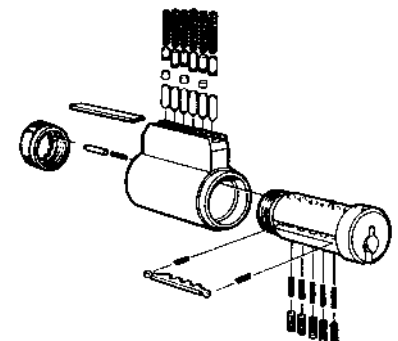
65673 – Sargent



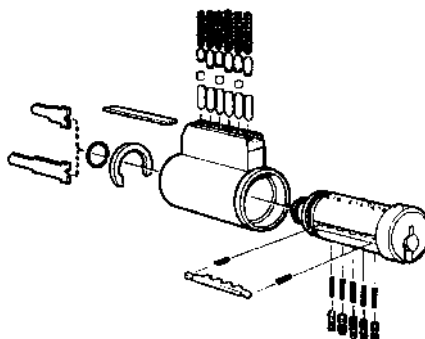
65673-TZ – Sargent



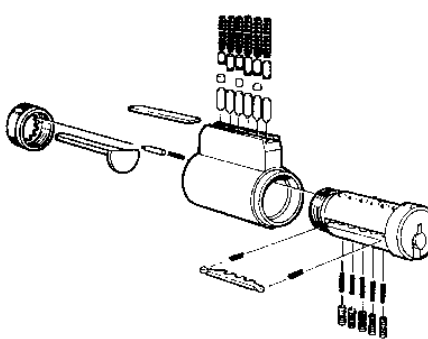
65681 – Weiser



65682 – Weiser

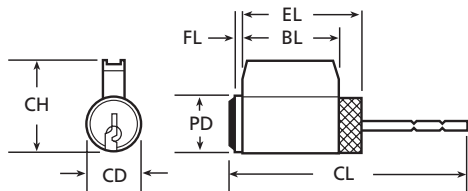


65691 – Arrow



65692 – Arrow

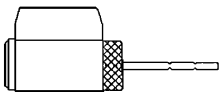

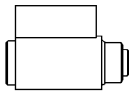

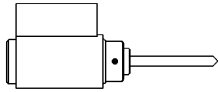

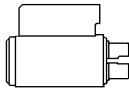

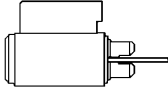

## Key-in-Knob/Lever Cylinders




### Key-in-Knob/Lever Key:

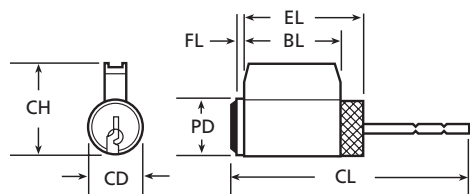
**BL** – Bible Length  
**CD** – Cylinder Diameter  
**CH** – Cylinder Height  
**CL** – Cylinder Length

**EL** – Effective Length  
**FL** – Front Length  
**PD** – Plug Face Diameter

Make	Model #		Description	BL	CD	CH	CL	EL	FL	PD	
<b>Schlage</b>				Standard and heavy-duty 6-pin, includes cap, pin, spring and break-off tailpiece. For B series Deadbolts Corbin/Russwin CL3300, CL3400, CL3600, CL3700, CK4700, CL3900 (Must use original manufacturer's tailpiece and stabilizing sleeve). CK4400 for all functions except 29, 55, & 82. Also use for A5 & N5 exit trim.	1.023	0.634	1.020	2.465	1.250	0.071	0.560
Twin V-10	V65611										
Twin Exclusive	E65611										
Twin 6000 Classic	65611										
Twin Pro	61611										
Twin Maximum 	88611										
Twin Max Med	28611										
Twin Low	L6661										
Twin 600 Classic	6661										
<b>Yale</b>				Standard and heavy-duty	1.000	0.677	1.071	N/A	1.429	0.000	0.560
Twin V-10	V65631										
Twin Exclusive	E65631										
Twin 6000 Classic	65631										
Twin Pro	61631										
Twin Maximum 	88631										
Twin Max Med	28631										
Twin Low	L6631										
Twin 600 Classic	6631										
<b>Yale</b>				Key-In-Lever style	1.000	0.677	1.071	2.975	1.429	0.000	0.560
Twin V-10	V65632										
Twin Exclusive	E65632										
Twin 6000 Classic	65632										
Twin Pro	61632										
Twin Maximum 	88632										
Twin Max Med	28632										
Twin Low	L6632										
Twin 600 Classic	6632										
<b>Corbin/Russwin</b>				Heavy-duty, new style (Not 3400, 3600, 3800 series) Use for CK4200, & UT5200	1.038	0.677	1.071	N/A	1.453	0.135	0.560
Twin V-10	V65651										
Twin Exclusive	E65651										
Twin 6000 Classic	65651										
Twin Pro	61651										
Twin Maximum 	88651										
Twin Max Med	28651										
Twin Low	L6651										
Twin 600 Classic	6651										
<b>Corbin/Russwin</b>				Standard-duty, new style tailpiece included. For CK4300, 5600, & B2, G2, G3 exit trim	1.038	0.677	1.071	2.165	1.453	0.135	0.560
Twin V-10	V65652										
Twin Exclusive	E65652										
Twin 6000 Classic	65652										
Twin Pro	61652										
Twin Maximum 	88652										
Twin Max Med	28652										
Twin Low	L6652										
Twin 600 Classic	6652										

 – Twin Maximum available with C4 CLIQ™ Technology. Example: 88611 x CLIQ x 626 x Sidebar x Comp

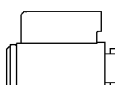

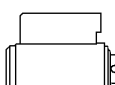

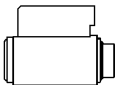

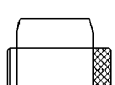

## Key-in-Knob/Lever Cylinders




### Key-in-Knob/Lever Key:

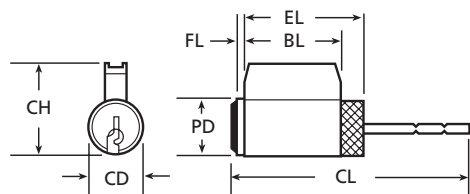
**BL** – Bible Length  
**CD** – Cylinder Diameter  
**CH** – Cylinder Height  
**CL** – Cylinder Length

**EL** – Effective Length  
**FL** – Front Length  
**PD** – Plug Face Diameter

Make	Model #		Description	BL	CD	CH	CL	EL	FL	PD	
Corbin/Russwin				Russwin cylinder 19F35	1.038	0.677	1.071	N/A	1.275	0.135	0.560
Twin V-10	V65653										
Twin Exclusive	E65653										
Twin 6000 Classic	65653										
Twin Pro	61653										
Twin Maximum 	88653										
Twin Low	L6653										
Twin 600 Classic	6653										
Corbin/Russwin				Russwin cylinder 25F26, 25F56, 24F15, 67F69, 55F76	1.038	0.677	1.071	N/A	1.299	0.135	0.560
Twin V-10	V65654										
Twin Exclusive	E65654										
Twin 6000 Classic	65654										
Twin Pro	61654										
Twin Maximum 	88654										
Twin Low	L6654										
Twin 600 Classic	6654										
Corbin/Russwin				Russwin cylinder 25F65	1.038	0.677	1.071	N/A	1.305	0.135	0.560
Twin V-10	V65655										
Twin Exclusive	E65655										
Twin 6000 Classic	65655										
Twin Pro	61655										
Twin Maximum 	88655										
Twin Low	L6655										
Twin 600 Classic	6655										
Falcon				S & X Series, Use original manufacturer cap and tailpiece	1.022	0.634	1.020	N/A	1.325	0.071	0.560
Twin V-10	V65661										
Twin Exclusive	E65661										
Twin 6000 Classic	65661										
Twin Pro	61661										
Twin Maximum 	88661										
Twin Low	L6661										
Twin 600 Classic	6661										

 – Twin Maximum available with C4 CLIQ™ Technology. Example: 88611 x CLIQ x 626 x Sidebar x Comp



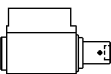

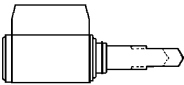

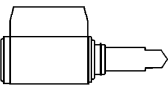

## Key-in-Knob/Lever Cylinders




### Key-in-Knob/Lever Key:

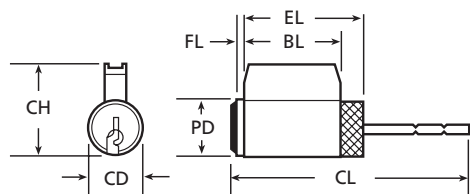
**BL** – Bible Length  
**CD** – Cylinder Diameter  
**CH** – Cylinder Height  
**CL** – Cylinder Length

**EL** – Effective Length  
**FL** – Front Length  
**PD** – Plug Face Diameter

Make	Model #	Description	BL	CD	CH	CL	EL	FL	PD
<b>Sargent</b>		Integra	1.025	0.677	1.071	N/A	1.447	0.000	0.560
Twin V-10	V65671								
Twin Exclusive	E65671								
Twin 6000 Classic	65671								
Twin Pro	61671								
Twin Maximum 	88671								
Twin Low	L6671								
Twin 600 Classic	6671								
<b>Sargent</b>		Heavy-duty 7, 8, 9 lines KIK	1.010	0.677	1.071	N/A	1.663	0.020	0.560
Twin V-10	V65672								
Twin Exclusive	E65672								
Twin 6000 Classic	65672								
Twin Pro	61672								
Twin Maximum 	88672								
Twin Max Med	28672								
Twin Low	L6672								
Twin 600 Classic	6672								
<b>Sargent</b>		Standard duty 3 tailpieces included 6 Line KIK, 7 Line KIL, 10 Line KIL	0.990	0.634	1.020	2.000 2.040 2.315	1.235	0.000	0.560
Twin V-10	V65673								
Twin Exclusive	E65673								
Twin 6000 Classic	65673								
Twin Pro	61673								
Twin Maximum 	88673								
Twin Max Med	28673								
Twin Low	L6673								
Twin 600 Classic	6673								
<b>Sargent T-Zone</b>		T-Zone 11 Line KIL	0.990	0.634	1.020	1.720	1.235	0.000	0.560
Twin V-10	V65673-TZ								
Twin Exclusive	E65673-TZ								
Twin 6000 Classic	65673-TZ								
Twin Pro	61673-TZ								
Twin Maximum 	88673-TZ								
Twin Max Med	28673-TZ								
Twin Low	L6673-TZ								
Twin 600 Classic	6673-TZ								

 – Twin Maximum available with C4 CLIQ™ Technology. Example: **88611** x **CLIQ** x **626** x **Sidebar** x **Comp**

## Key-in-Knob/Lever Cylinders



### Key-in-Knob/Lever Key:

**BL** – Bible Length

**CD** – Cylinder Diameter

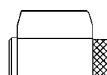

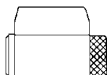

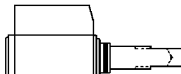

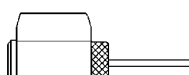

**CH** – Cylinder Height


**CL** – Cylinder Length

**EL** – Effective Length

**FL** – Front Length

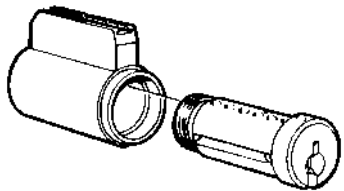
**PD** – Plug Face Diameter

Make	Model #		Description	BL	CD	CH	CL	EL	FL	PD	
<b>Weiser</b>				4000 & 9000 single cylinder deadbolts, entrance style handle locks	1.022	0.634	1.020	3.375	1.335	0.000	0.560
Twin V-10	V65681										
Twin Exclusive	E65681										
Twin 6000 Classic	65681										
Twin Pro	61681										
Twin Maximum 	88681										
Twin Low	L6681										
Twin 600 Classic	6681										
<b>Weiser</b>				4000 & 9000 double cylinder deadbolts, entrance style handle locks	1.022	0.634	1.020	1.910	1.335	0.000	0.560
Twin V-10	V65682										
Twin Exclusive	E65682										
Twin 6000 Classic	65682										
Twin Pro	61682										
Twin Maximum 	88682										
Twin Low	L6682										
Twin 600 Classic	6682										
<b>Arrow</b>				Standard and heavy-duty, 3 tail-piece included for Arrow C, H, L, M, Q, S & W Series Key-in-Knob & Key-in-Lever styles	1.022	0.634	1.020	2.000 2.040 2.315	1.268	0.070	0.560
Twin V-10	V65691										
Twin Exclusive	E65691										
Twin 6000 Classic	65691										
Twin Pro	61691										
Twin Maximum 	88691										
Twin Max Med	28691										
Twin Low	L6691										
Twin 600 Classic	6691										
<b>Arrow</b>				For Arrow deadbolts only, includes tailpieces for double & single cylinders	1.022	0.634	1.020	2.085 2.340 3.465	1.352	0.000	0.560
Twin V-10	V65692										
Twin Exclusive	E65692										
Twin 6000 Classic	65692										
Twin Pro	61692										
Twin Maximum 	88692										
Twin Low	L6692										
Twin 600 Classic	6692										

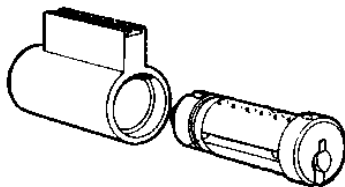
 – Twin Maximum available with C4 CLIQ™ Technology. Example: 88611 x CLIQ x 626 x Sidebar x Comp



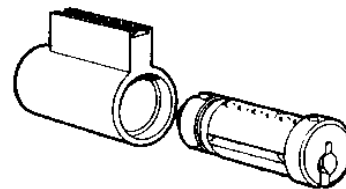
## Key-in-Knob/Lever Component Parts



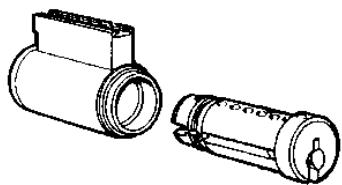
Schlage – 61611



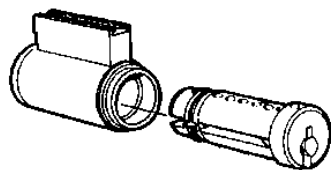
Yale – 61631



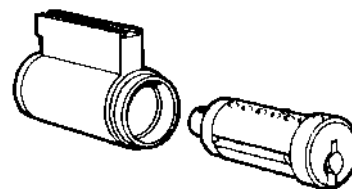
Yale – 61632



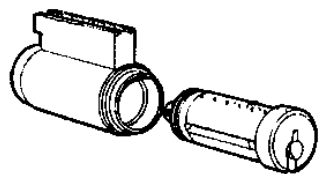
Corbin/Russwin – 61651



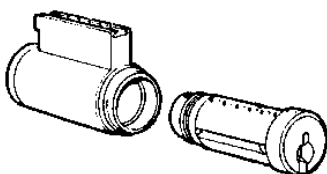
Corbin/Russwin – 61652



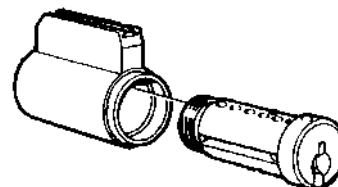
Corbin/Russwin – 61653



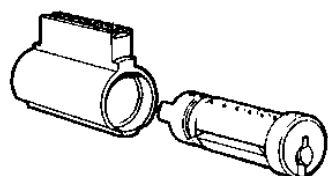
Corbin/Russwin – 61654



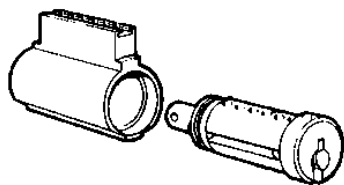
Corbin/Russwin – 61655



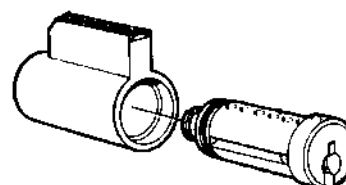
Falcon – 61661



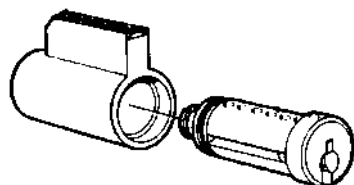
Sargent – 61671



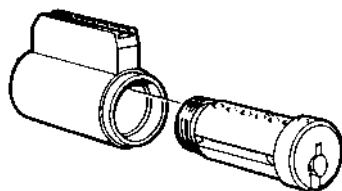
Sargent – 61672



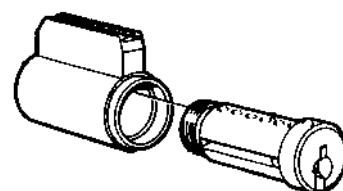
Sargent – 61673



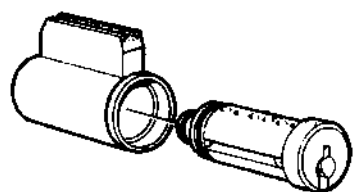
Sargent – 61673-TZ



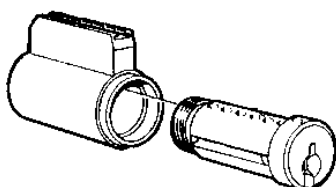
Weiser – 61681



Weiser – 61682



Arrow – 61691



Arrow – 61692

## Key-in-Knob/Lever Component Parts

Model#	Description
<b>Twin V-10</b>	
868056	Schlage Cylinder Shell
868057	Yale Cylinder Shell
367156	Russwin/Corbin Cylinder Shell
868060	Sargent Integra Cylinder Shell
868061	Sargent Heavy-duty Cylinder Shell
367159	Sargent Standard-duty Cylinder Shell
250619	Arrow Cylinder Shell
907203	Arrow Deadbolt/Weiser KIK Shell
353978 *	Schlage Cylinder Plug
353979 *	Yale Cylinder Plug – (Must specify KIK or KIL)
353980 *	Sargent Integra Cylinder Plug
353981 *	Sargent Heavy-Duty 7, 8, 9 Cylinder Plug
353982	Falcon S & X Series/Weiser Deadbolt Plug
353983 *	Arrow/Sargent 6-line Cylinder Plug
353984 *	Russwin/Corbin std. & Heavy-Duty Cylinder Plug
353985 *	Russwin/Corbin 19F35 Cylinder Plug
353986 *	Corbin 25F26 Cylinder Plug
353787 *	Russwin/Corbin 25F65 Cylinder Plug
453978 *	Arrow Deadbolt Plug
92C-114	Arrow Deadbolt Cap
92C-127	Arrow Deadbolt Plug Cap Spring
92C-128	Arrow Deadbolt Plug Cap Pin
92C-121	Arrow Deadbolt Washer
92C-123	Arrow Deadbolt Blocking Piece
D61-44	Arrow Deadbolt Long Tailpiece (Single Cylinder)
D62-44	Arrow Deadbolt Short Tailpiece (Double Cylinder)

<b>Twin Exclusive/Twin 6000 Classic</b>	
868056	Schlage Cylinder Shell
868057	Yale Cylinder Shell
367156	Russwin/Corbin Cylinder Shell
868060	Sargent Integra Cylinder Shell
868061	Sargent Heavy-duty Cylinder Shell
367159	Sargent Standard-duty Cylinder Shell
250619	Arrow Cylinder Shell
907203	Arrow Deadbolt/Weiser KIK Shell
367068 *†	Schlage Cylinder Plug
367069 *†	Yale Cylinder Plug – (Must specify KIK or KIL)
367073 *†	Sargent Integra Cylinder Plug
367074 *†	Sargent Heavy-Duty 7, 8, 9 Cylinder Plug
868233 †	Falcon S & X Series/Weiser Deadbolt Plug
868607 *†	Arrow/Sargent 6-line Cylinder Plug
868649 *†	Russwin/Corbin std. & Heavy-Duty Cylinder Plug
868650 *†	Russwin/Corbin 19F35 Cylinder Plug
868651 *†	Corbin 25F26 Cylinder Plug
868652 *†	Russwin/Corbin 25F65 Cylinder Plug
467068 *†	Arrow Deadbolt Plug
92C-114	Arrow Deadbolt Cap
92C-127	Arrow Deadbolt Plug Cap Spring
92C-128	Arrow Deadbolt Plug Cap Pin
92C-121	Arrow Deadbolt Washer
92C-123	Arrow Deadbolt Blocking Piece
D61-44	Arrow Deadbolt Long Tailpiece (Single Cylinder)
D62-44	Arrow Deadbolt Short Tailpiece (Double Cylinder)

\* - Indicates Finished Components

† – Specify Profile.

Model#	Description
<b>Twin Pro</b>	
868056	Schlage Cylinder Shell
868057	Yale Cylinder Shell
367156	Russwin/Corbin Cylinder Shell
868060	Sargent Integra Cylinder Shell
868061	Sargent Heavy-duty Cylinder Shell
367159	Sargent Standard-duty Cylinder Shell
250619	Arrow Cylinder Shell
907203	Arrow Deadbolt/Weiser KIK Shell
356982 *†	Schlage Cylinder Plug
356983 *†	Yale Cylinder Plug – (Must specify KIK or KIL)
356988 *†	Sargent Integra Cylinder Plug
356989 *†	Sargent Heavy-Duty 7, 8, 9 Cylinder Plug
356990 *†	Arrow/Sargent 6-line Cylinder Plug
356984 *†	Russwin/Corbin std. & Heavy-Duty Cylinder Plug
356985 *†	Russwin/Corbin 19F35 Cylinder Plug
356986 *†	Corbin 25F26 Cylinder Plug
356987 *†	Russwin/Corbin 25F65 Cylinder Plug
92C-114	Arrow Deadbolt Cap
92C-127	Arrow Deadbolt Plug Cap Spring
92C-128	Arrow Deadbolt Plug Cap Pin
92C-121	Arrow Deadbolt Washer
92C-123	Arrow Deadbolt Blocking Piece
D61-44	Arrow Deadbolt Long Tailpiece (Single Cylinder)
D62-44	Arrow Deadbolt Short Tailpiece (Double Cylinder)

\* – Indicates Finished Components.

† – Specify Profile.

## Deadbolts

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. As with all ASSA high security cylinders, our patented key control ensures the ultimate protection against unauthorized key duplication.



### 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
- Patented key control

### Warranty:

- ASSA guarantees its products against defective workmanship or wear resulting from defects for life Certification

### Certification:

- All ASSA 6000 Deadbolts are U.L. 437 Listed as well as ASTM F 1577 6.6 Certified for standard test methods for Detention Locks

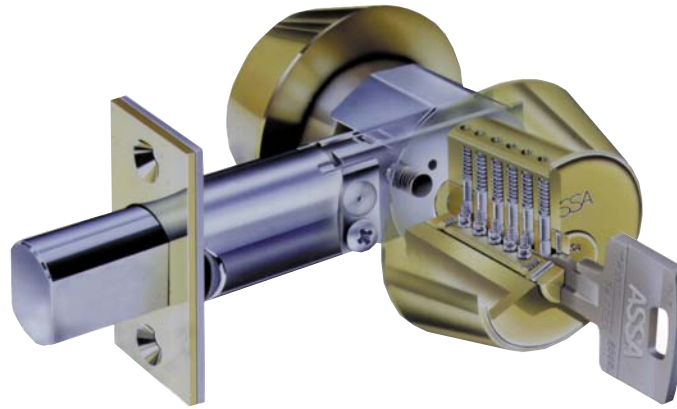
### Technical Information:

- Available in single and double cylinder and no thumb turn inside models
- Available in 2-3/8" and 2-3/4" backsets drive-in or face plate
- Available 1-3/8" to 2-1/2" door thickness, 1-3/4" standard
- Cylinder housing and plug made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

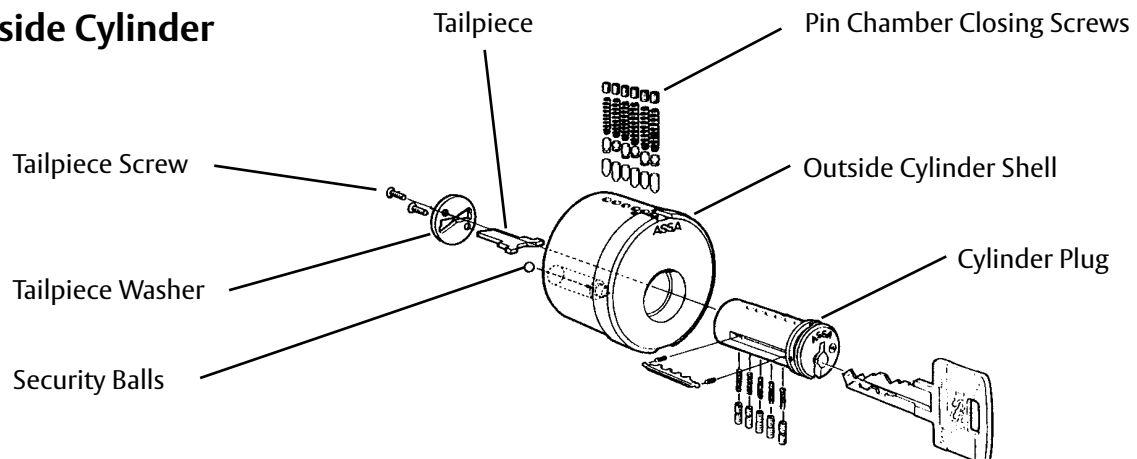
### Finishes:

<u>BHMA Symbol</u>	<u>U.S. Symbol</u>	<u>Euro Finishes</u>	<u>Description</u>
625	US 26	11	Bright Chrome
626	US 26D	13	Satin Chrome
605	US 3	20	Bright Brass
606	US 4	23	Satin Brass
609	US 5	47	Antique Brass
612	US 10	33	Satin Bronze
624	US 10B	46	Dark Oxidized Bronze

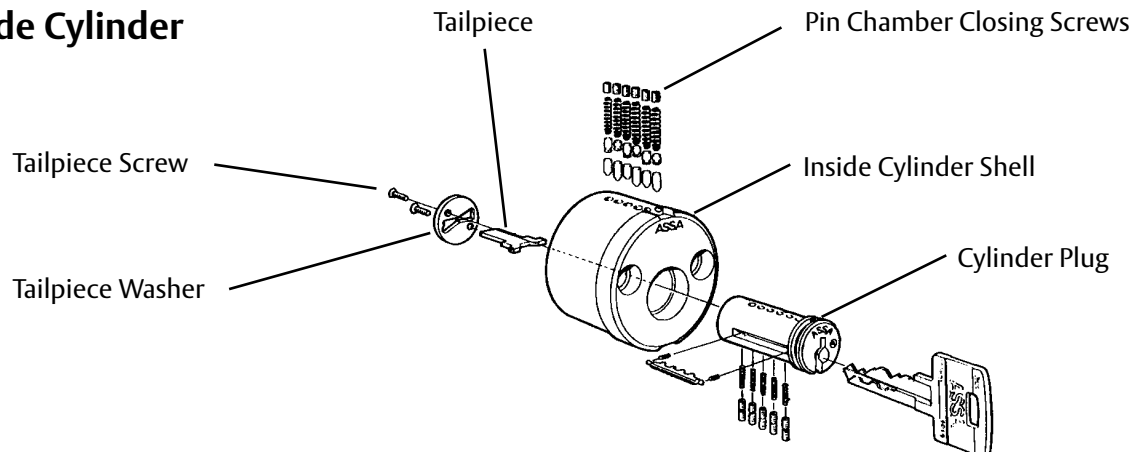
## Deadbolts Exploded View



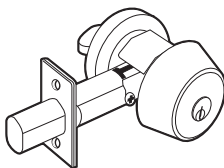
### Outside Cylinder



### Inside Cylinder









# Deadbolts



6000 Series Deadbolt

## 6000 Series Grade 1 Deadbolt Locks


Model #	Notes	Description
<b>Twin V-10</b>		
V6000		Single cylinder w/thumbturn
V6000DC		Double cylinder
V6000NT		Single cylinder no thumbturn
V6000LB		Single cylinder less bolt
V6000DCLB		Double cylinder less bolt
V6000CL		Single cylinder classroom function
<b>Twin Exclusive</b>		
E6000		Single cylinder w/thumbturn
E6000DC		Double cylinder
E6000NT		Single cylinder no thumbturn
E6000LB		Single cylinder less bolt
E6000DCLB		Double cylinder less bolt
E6000CL		Single cylinder classroom function
<b>Twin 6000 Classic</b>		
6000		Single cylinder w/thumbturn
6000DC		Double cylinder
6000NT		Single cylinder no thumbturn
6000LB		Single cylinder less bolt
6000DCLB		Double cylinder less bolt
6000CL		Single cylinder classroom function
<b>Twin Pro</b>		
6100		Single cylinder w/thumbturn
6100DC		Double cylinder
6100NT		Single cylinder no thumbturn
6100LB		Single cylinder less bolt
6100DCLB		Double cylinder less bolt
6100CL		Single cylinder classroom function
<b>Twin Maximum</b>		
8800		Single cylinder w/thumbturn
8800DC		Double cylinder
8800NT		Single cylinder no thumbturn
8800LB		Single cylinder less bolt
8800DCLB		Double cylinder less bolt
8800CL		Single cylinder classroom function

## 600 Series Grade 1 Deadbolt Locks

Model #	Notes	Description
<b>Twin Series Classic</b>		
600		Single cylinder w/thumbturn
600DC		Double cylinder
600NT		Single cylinder no thumbturn
600LB		Single cylinder less bolt
600DCLB		Double cylinder less bolt



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

Example: .....8800-ET .....605.....2-3/8" backset.....F .....Sub.....0M7-200



 – Twin Maximum available with CLIQ™ Technology. Example: 8800 x CLIQ x 626 x Sidebar x Comp

# Deadbolts

## M80 Series Grade 2 Deadbolt Locks

Model #	Notes	Description
<b>Twin V-10</b>		
VM80		Single cylinder w/thumbturn
VM80DC		Double cylinder
<b>Twin Exclusive</b>		
EM80		Single cylinder w/thumbturn
EM80DC		Double cylinder
<b>Twin 6000 Classic</b>		
M80		Single cylinder w/thumbturn
M80DC		Double cylinder
<b>Twin Pro</b>		
61M80		Single cylinder w/thumbturn
61M80DC		Double cylinder
<b>Twin Maximum</b>		
88M80		Single cylinder w/thumbturn
88M80DC		Double cylinder

## 6000 Series Grade 1 Deadbolt Locks Interchangeable Core

Model #	Notes	Description
<b>Twin V-10</b>		
V6000IC		Single cylinder IC
V6000ICLC		Single cylinder IC w/thumbturn less core
V6000DCIC		Double cylinder IC
V6000DCICLC		Double cylinder IC less core
<b>Twin Exclusive</b>		
E6000IC		Single cylinder IC
E6000ICLC		Single cylinder IC w/thumbturn less core
E6000DCIC		Double cylinder IC
E6000DCICLC		Double cylinder IC less core
<b>Twin 6000 Classic</b>		
6000IC		Single cylinder IC
6000ICLC		Single cylinder IC w/thumbturn less core
6000DCIC		Double cylinder IC
6000DCICLC		Double cylinder IC less core
<b>Twin Pro</b>		
6100IC		Single cylinder IC
6100ICLC		Single cylinder IC w/thumbturn less core
6100DCIC		Double cylinder IC
6100DCICLC		Double cylinder IC less core
<b>Twin Maximum</b>		
8800IC		Single cylinder IC
8800ICLC		Single cylinder IC w/thumbturn less core
8800DCIC		Double cylinder IC
8800DCICLC		Double cylinder IC less core

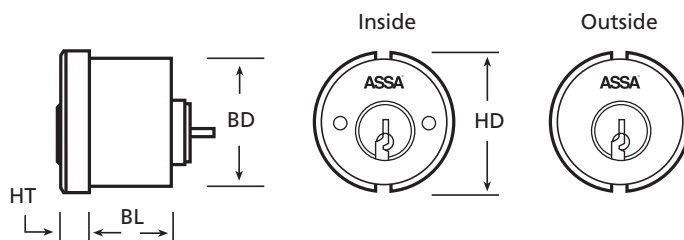
For extra thick doors of 2" – 2-1/2", please suffix model numbers with -ET.

Example: .....8800-ET .....605 .....2-3/8" backset .....F .....Sub .....0M7-200

 – Twin Maximum available with CLIQ™ Technology. Example: 8800IC x **CLIQ** x 626 x Sidebar x Comp



## Deadbolts



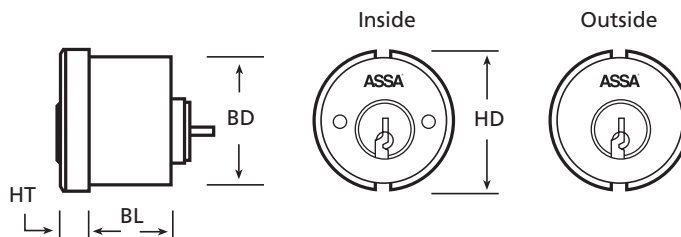
### 6000 Series Deadbolt Cylinders Only

Model #	Description	HT	BL	BD	HD
<b>Twin V-10</b>					
V65811	Outside cylinder	0.323	0.920	1.440	1.572
V65812	Inside cylinder	0.323	0.920	1.440	1.572
V65813	Inside & Outside cylinder	0.323	0.920	1.440	1.572
V65811IC	Outside IC cylinder	0.323	0.920	1.440	1.572
V65812IC	Inside IC cylinder	0.323	0.920	1.440	1.572
V65813IC	Inside & Outside IC cylinder	0.323	0.920	1.440	1.572
V65811ICLC	Outside IC cylinder less core	0.323	0.920	1.440	1.572
V65812ICLC	Inside IC cylinder less core	0.323	0.920	1.440	1.572
V65813ICLC	Inside & Outside IC cylinder less core	0.323	0.920	1.440	1.572
<b>Twin Exclusive</b>					
E65811	Outside cylinder	0.323	0.920	1.440	1.572
E65812	Inside cylinder	0.323	0.920	1.440	1.572
E65813	Inside & Outside cylinder	0.323	0.920	1.440	1.572
E65811IC	Outside IC cylinder	0.323	0.920	1.440	1.572
E65812IC	Inside IC cylinder	0.323	0.920	1.440	1.572
E65813IC	Inside & Outside IC cylinder	0.323	0.920	1.440	1.572
E65811ICLC	Outside IC cylinder less core	0.323	0.920	1.440	1.572
E65812ICLC	Inside IC cylinder less core	0.323	0.920	1.440	1.572
E65813ICLC	Inside & Outside IC cylinder less core	0.323	0.920	1.440	1.572
<b>Twin 6000 Classic</b>					
65811	Outside cylinder	0.323	0.920	1.440	1.572
65812	Inside cylinder	0.323	0.920	1.440	1.572
65813	Inside & Outside cylinder	0.323	0.920	1.440	1.572
65811IC	Outside IC cylinder	0.323	0.920	1.440	1.572
65812IC	Inside IC cylinder	0.323	0.920	1.440	1.572
65813IC	Inside & Outside IC cylinder	0.323	0.920	1.440	1.572
65811ICLC	Outside IC cylinder less core	0.323	0.920	1.440	1.572
65812ICLC	Inside IC cylinder less core	0.323	0.920	1.440	1.572
65813ICLC	Inside & Outside IC cylinder less core	0.323	0.920	1.440	1.572

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

Example: .....8811-ET.....605.....2-3/8" backset.....F.....Sub .....0M7-200

## Deadbolts



### 6000 Series Deadbolt Cylinders Only

Model #	Notes	Description	HT	BL	BD	HD
<b>Twin Pro</b>						
6181		Outside cylinder	0.323	0.920	1.440	1.572
6182		Inside cylinder	0.323	0.920	1.440	1.572
6183		Inside & Outside cylinder	0.323	0.920	1.440	1.572
6181IC		Outside IC cylinder	0.323	0.920	1.440	1.572
6182IC		Inside IC cylinder	0.323	0.920	1.440	1.572
6183IC		Inside & Outside IC cylinder	0.323	0.920	1.440	1.572
6181ICLC		Outside IC cylinder less core	0.323	0.920	1.440	1.572
6182ICLC		Inside IC cylinder less core	0.323	0.920	1.440	1.572
6183ICLC		Inside & Outside IC cylinder less core	0.323	0.920	1.440	1.572
<b>Twin Maximum</b>						
8881	CLIQ	Outside cylinder	0.323	0.920	1.440	1.572
8882	CLIQ	Inside cylinder	0.323	0.920	1.440	1.572
8883	CLIQ	Inside & Outside cylinder	0.323	0.920	1.440	1.572
8881IC	CLIQ	Outside IC cylinder	0.323	0.920	1.440	1.572
8882IC	CLIQ	Inside IC cylinder	0.323	0.920	1.440	1.572
8883IC	CLIQ	Inside & Outside IC cylinder	0.323	0.920	1.440	1.572
8881ICLC		Outside IC cylinder less core	0.323	0.920	1.440	1.572
8882ICLC		Inside IC cylinder less core	0.323	0.920	1.440	1.572
8883ICLC		Inside & Outside IC cylinder less core	0.323	0.920	1.440	1.572

### 600 Series Deadbolt Cylinders Only

Model #	Notes	Description	HT	BL	BD	HD
<b>600 Series Classic</b>						
6811		Outside cylinder	0.323	0.920	1.440	1.572
6812		Inside cylinder	0.323	0.920	1.440	1.572
6813		Inside & Outside cylinder	0.323	0.920	1.440	1.572

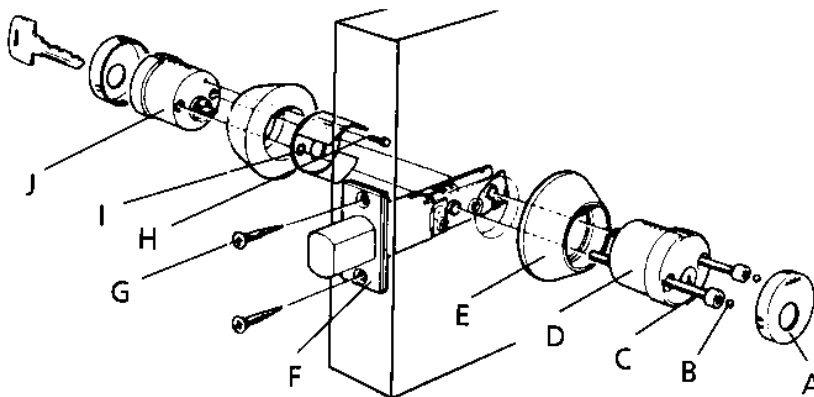
For extra thick doors of 2" – 2-1/2", please suffix model numbers with -ET.

Example: .....8811-ET.....605.....2-3/8" backset.....F.....Sub .....0M7-200

CLIQ – Twin Maximum available with CLIQ™ Technology. Example: 8881 x CLIQ x 626 x Sidebar x Comp

## Deadbolts Component Parts

- A. Cylinder and Thumbturn Cap
- B. Ball Bearing Insert
- C. Cylinder (DC) Mounting Bolts (2-1/4")
- D. Inside Cylinder
- E. Cylinder Ring
- F. Faceplate Bolt
- G. Wood/Metal Combination Screws
- H. Screws for Hardhat
- I. Hardhat
- J. Outside Cylinder



### Deadbolts Parts

Model No.	Notes	Description
352323		Outside Cylinder Shell
352324		Inside Cylinder Shell
352326	*	Thumbturn
353969	*	Twin V-10 Cylinder Plug
356071	*	Twin Exclusive Cylinder Plug
816068	*†	Twin Pro / Twin Maximum Cylinder Plug
442774	*	Deadbolt Bolt Faceplate
907001	*	2-3/4" Faceplate Bolt
907002	*	2-3/4" Drive-In Bolt
907003	*	2-3/8" Faceplate Bolt
907004	*	2-3/8" Drive-In Bolt
907005	*	Strike Plate with Screws
907007		Reinforced Strike Box and Screws
907008		Security Bolt Guard Plate
806263		Thumbturn Tailpiece bushing
352325		Thumbturn Housing Only
806265		Thumbturn Spindle
806266	*	Cylinder Thumbturn Cap
806266NT	*	Cylinder Cap, No Thumbturn
806256		IC Cylinder and Thumbturn Cap
806267	*	Cylinder Ring
806269		Adapter Ring 2-1/8" Side Hole
806268	*	Spacer Ring 1-3/8" Door
806270	*	Thumbturn Ring
806346		Pin Chamber Closing Screws
806483		Thumbturn Set Screws
867046		Tailpiece Washer
867090		Tailpiece Screw
806262		Tailpiece
867109		Tailpiece for Special Door Thickness
907015		Security Balls for Single & Double Cylinder
907010		Deadbolt Mounting Bolts (Std. Single Cyl.)
907011		Deadbolt Mounting Bolts (Std. Double cyl.)
907012		Deadbolt mounting Bolts (3")
907013		Deadbolt Mounting Bolts (3-1/4")
907016		Deadbolt Strike Box Screw
907017		Grade 1 Cylinder Deadbolt Extension Kit 2"-2-1/2" Thick Door
907018		Grade 1 Double Cylinder Deadbolt Extension Kit 2"-2-1/2" Thick Door
907035		Deadbolt Chamber Screw Wrench

\* – Indicates Finished Components.

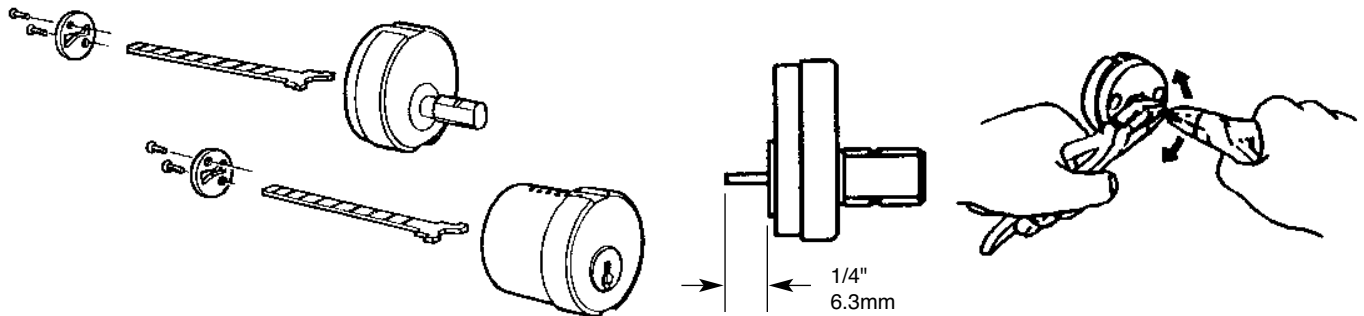
† – Specify Profile OP4 for Twin Pro or OM7 for Twin Maximum.

# Deadbolts Accessories

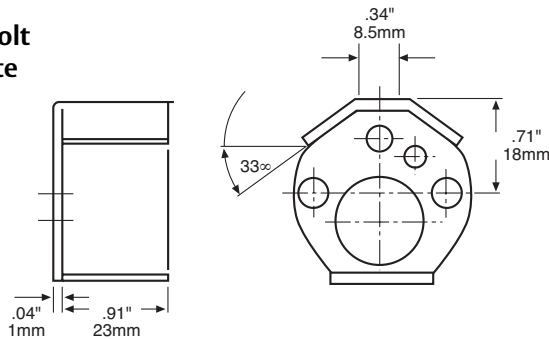
## Socket Head 1/4 - 20 Mounting Bolt Selection Chart

Application	Door Thickness	Screw Length
Double Cylinder	1-3/8" to 1-3/4"	2-3/4"
Single Cylinder	1-3/8" to 1-3/4"	2-1/4"
Double Cylinder	2" to 2-1/2"	3-1/4"
Single Cylinder	2" to 2-1/2"	3"

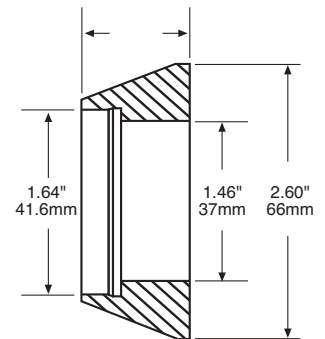
- Deadbolts Utilize Standard Rim Style Tailpiece
- Break-Off Tailpiece for 2", 2-1/4", 2-1/2" Door thickness
- Cut off the tail for 1-3/8" thick door



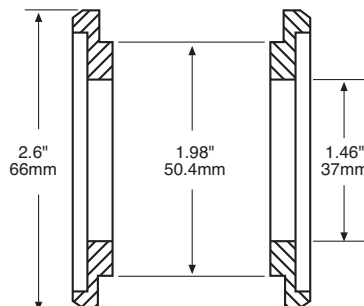
**Security Bolt  
Guard Plate**  
907008



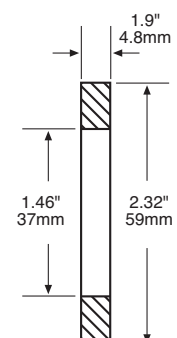
**Cylinder Ring**  
806267



**Adapter Ring**  
**2-1/8" Side Hole**  
806269



**1-3/8" Door  
Spacer Ring**  
806268



## Auxiliary Locks

ASSA's auxiliary lock line brings the same level of patented key control and durability to cam locks, window locks, drawer and desk locks, and tube locks that are standard for all of our high security products. All of our auxiliary locks can be keyed into an existing or new master key system and 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 the same high security key
- Unlimited number of applications
- Two independent locking mechanisms to ensure security and optimum pick resistance
- Inactive "false" grooves on side pins designed to catch picking tools
- Can be easily rekeyed in the field
- Patented key control

### Warranty:

- ASSA guarantees its products against defective workmanship or wear resulting from defects for life

### Technical Information:

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

## Cam Locks

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” grooves on side pins designed to catch picking tools
- Patented key control

### Warranty:

- ASSA guarantees its products against defective workmanship or wear resulting from defects for life

### Certification:

- UL 437 (Pending)

### Technical Information:

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

### Finishes:

<u>BHMA Symbol</u>	<u>U.S. Symbol</u>	<u>Euro Finish</u>	<u>Description</u>
625	US 26	11	Bright Chrome



## Utility Locks

This is truly an innovative lock assembly. A rugged cast aluminum housing and strike assembly holds a solid brass six pin high security cylinder. 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" grooves on side pins designed to catch picking tools
- Patented key control

### Warranty:

- ASSA guarantees its products against defective workmanship or wear resulting from defects for life

### Certification:

- UL 437 (Pending)

### 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

## Cabinet Locks

ASSA manufactures the finest quality cabinet and desk locks featuring our high security eleven pin cylinders. These locks are listed with Underwriters Laboratories as U.L. 437. Our cabinet and desk locks can be keyed into any ASSA master key system. The cylinder can be easily rekeyed by removing the setscrew on the side of the cylinder housing.

### 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" grooves on side pins designed to catch picking tools
- Patented key control

### Warranty:

- ASSA guarantees its products against defective workmanship or wear resulting from defects for life

### Certification:

- All ASSA Cabinet/Drawer lock cylinders are U.L. 437 listed

### Technical Information:

- Available with plastic spacer and strike
- Cabinet lock available with horizontal or vertical bolt
- 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

### Finishes:

<u>BHMA Symbol</u>	<u>U.S. Symbol</u>	<u>Euro Finishes</u>	<u>Description</u>
626	US 26D	13	Satin Chrome
605	US 3	20	Bright Brass



700AS – 138



800AS – 138



850AS – 078



850AS – 138

## Keyswitch Locks

The ASSA Switch Lock is the newest addition to our family of high security products. Combining state-of-the-art Securitron<sup>®</sup> designed electronic technology with the versatility of an ASSA high security non-key retaining cam lock, this product is the key switch of the future. The switch lock is fully reversible from maintained to momentary and can be integrated into any new or existing ASSA master key system.



### Benefits:

- Long operating life
- Elongated mounting hole for easier, more accurate mounting
- 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
- Patented key control

### Warranty:

- ASSA guarantees its products against defective workmanship or wear resulting from defects for life

### Technical Information:

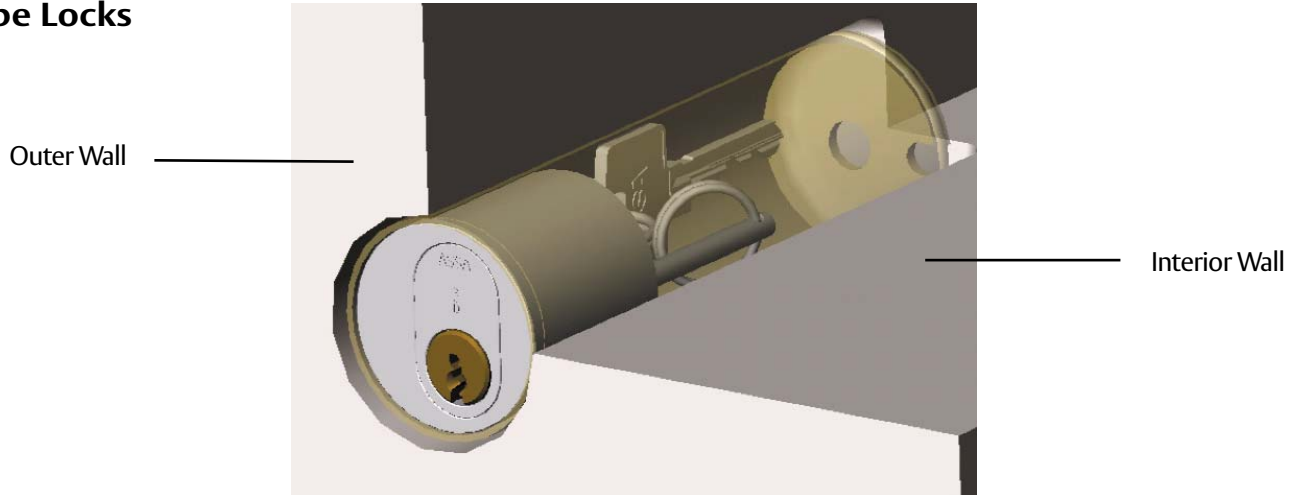
- Single pull double throw (SPDT) pin actuator and solder termination standard
- 3 amp at 12 or 24 VDC
- Uses hollowed out interchangeable core drivers
- Body and plug chromium plated brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

### Finishes:

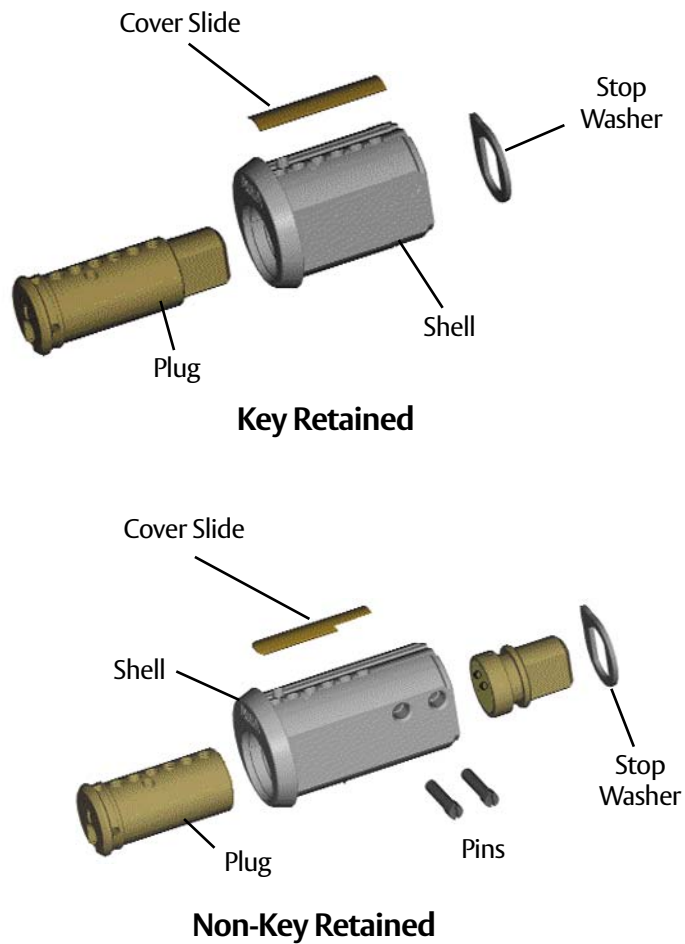
<u>BHMA Symbol</u>	<u>U.S. Symbol</u>	<u>Euro Finishes</u>	<u>Description</u>
626	US 26D	13	Satin Chrome

## Auxiliary Locks Exploded Views

### Tube Locks

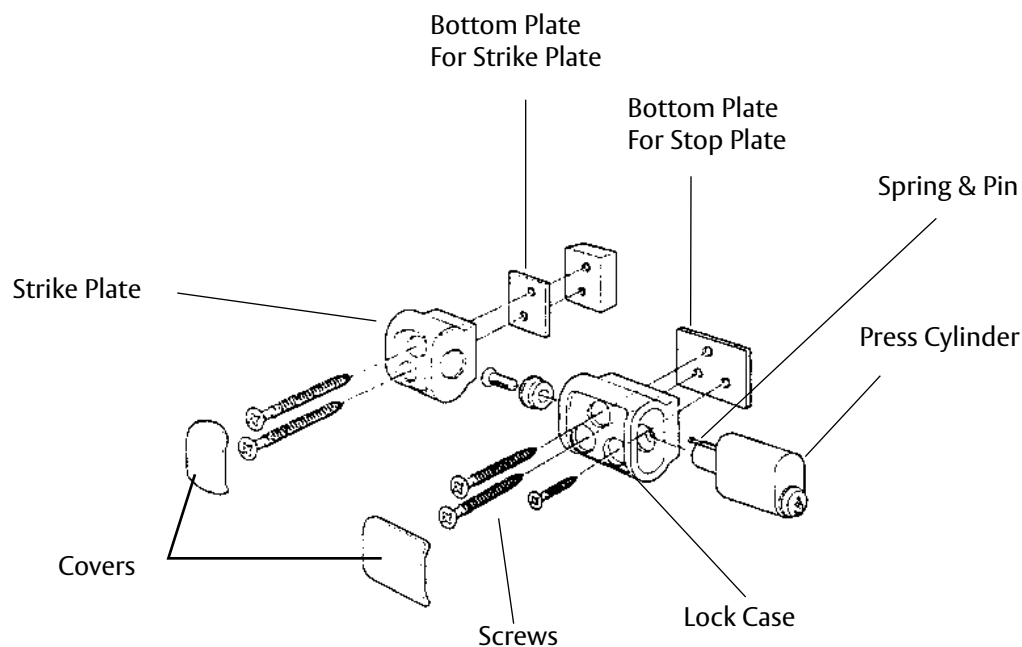


### Cam Locks

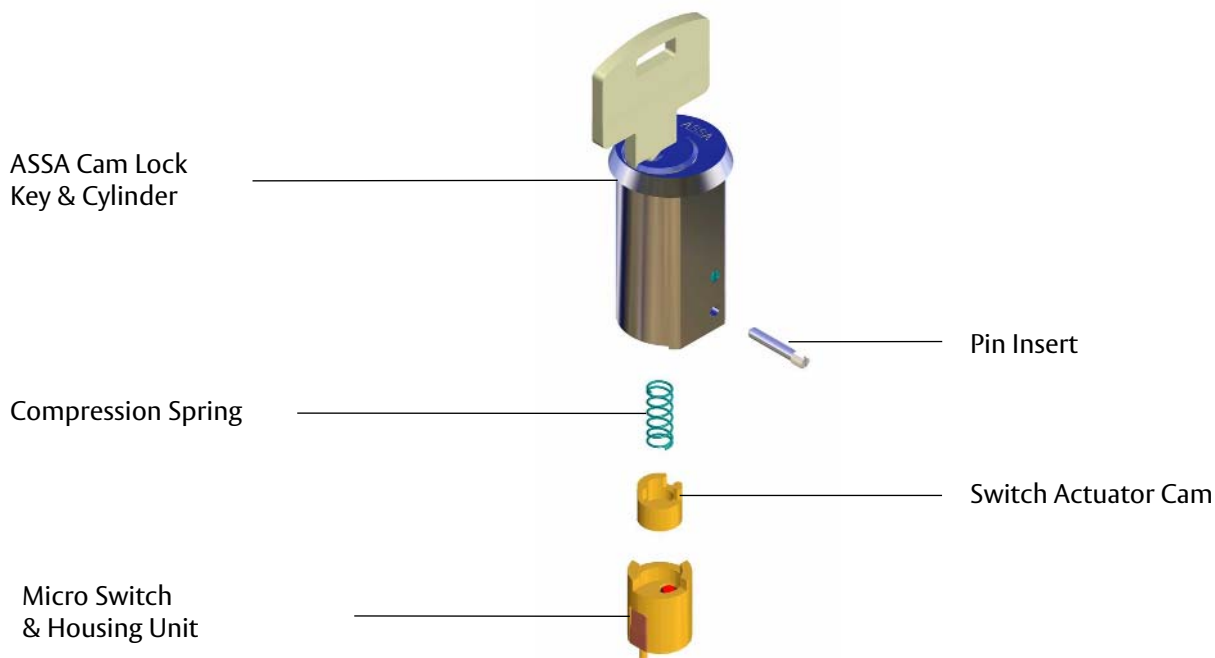


## Auxiliary Locks Exploded Views

### Utility Locks



### Switch Locks

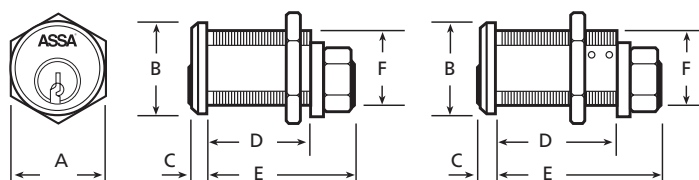


## Auxiliary Locks



### Tube Lock

Model	Notes	Description
<b>Twin V-10</b>		
V65617		Wall Tube Lock
<b>Twin Exclusive</b>		
E65617		Wall Tube Lock
<b>Twin 6000 Classic</b>		
65617		Wall Tube Lock
<b>Twin Pro</b>		
61617		Wall Tube Lock
<b>Twin Maximum</b>		
88617		Wall Tube Lock



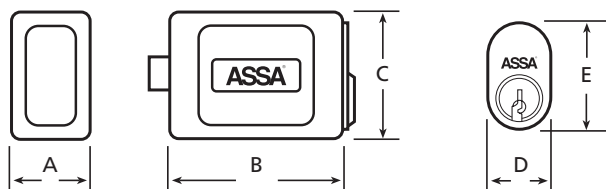
### Cam Locks

Model	Notes	Description	A	B	C	D	E	F
<b>Twin V-10</b>								
V6571		Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860
V7571		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860
<b>Twin Exclusive</b>								
E6571		Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860
E7571		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860
<b>Twin 6000 Classic</b>								
6571		Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860
7571		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860
<b>Twin Pro</b>								
6171		Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860
7171		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860
<b>Twin Maximum</b>								
8871		Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860
8872		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860
<b>Twin Maximum Medium Security</b>								
2871		Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860
2872		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860

– Twin Maximum available with C4 CLIQ™ Technology. Example: 8871 x **CLIQ** x 626 x Sidebar x Comp



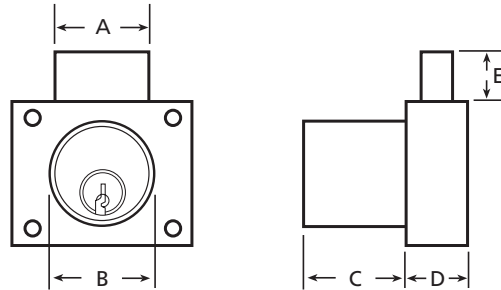
## Auxiliary Locks









## Utility Locks

Model	Description	A	B	C	D	E
<b>Twin V-10</b>						
V7680	Utility Lock	0.970	0.460	1.345	0.670	1.115
<b>Twin Exclusive</b>						
E7680	Utility Lock	0.970	0.460	1.345	0.670	1.115
<b>Twin 6000 Classic</b>						
7680	Utility Lock	0.970	0.460	1.345	0.670	1.115
<b>Twin Pro</b>						
6180	Utility Lock	0.970	0.460	1.345	0.670	1.115
<b>Twin Maximum</b>						
8880	Utility Lock	0.970	0.460	1.345	0.670	1.115

## Auxiliary Locks



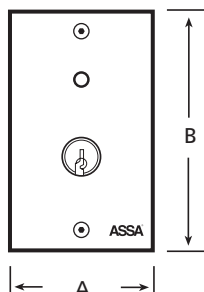
### Cabinet Locks

Model	Notes	Description	A	B	C	D	E
<b>Twin V-10</b>							
V700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965
V800AS-138	*	1-3/8" Drawer Lock	1.010	1.120	1.420	0.515	0.965
V850AS-078	*	7/8" Deadlocking Latch	1.000	1.120	1.185	0.635	0.320
V850AS-138	*	1-3/8" Deadlocking Latch	1.010	1.120	1.420	0.515	0.965
<b>Twin Exclusive</b>							
E700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965
E800AS-138	*	1-3/8" Drawer Lock	1.010	1.120	1.420	0.515	0.965
E850AS-078	*	7/8" Deadlocking Latch	1.000	1.120	1.185	0.635	0.320
E850AS-138	*	1-3/8" Deadlocking Latch	1.010	1.120	1.420	0.515	0.965
<b>Twin 6000 Classic</b>							
700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965
800AS-138	*	1-3/8" Drawer Lock	1.010	1.120	1.420	0.515	0.965
850AS-078	*	7/8" Deadlocking Latch	1.000	1.120	1.185	0.635	0.320
850AS-138	*	1-3/8" Deadlocking Latch	1.010	1.120	1.420	0.515	0.965
<b>Twin Pro</b>							
61700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965
61800AS-138	*	1-3/8" Drawer Lock	1.010	1.120	1.420	0.515	0.965
61850AS-078	*	7/8" Deadlocking Latch	1.000	1.120	1.185	0.635	0.320
61850AS-138	*	1-3/8" Deadlocking Latch	1.010	1.120	1.420	0.515	0.965
<b>Twin Maximum</b>							
88700AS-138	* 	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965
88800AS-138	* 	1-3/8" Drawer Lock	1.010	1.120	1.420	0.515	0.965
88850AS-078	* 	7/8" Deadlocking Latch	1.000	1.120	1.185	0.635	0.320
88850AS-138	* 	1-3/8" Deadlocking Latch	1.010	1.120	1.420	0.515	0.965
<b>Twin Maximum Medium Security</b>							
28700AS-138	* 	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965
28800AS-138	* 	1-3/8" Drawer Lock	1.010	1.120	1.420	0.515	0.965
28850AS-078	* 	7/8" Deadlocking Latch	1.000	1.120	1.185	0.635	0.320
28850AS-138	* 	1-3/8" Deadlocking Latch	1.010	1.120	1.420	0.515	0.965

 – Twin Maximum available with C4 CLIQ™ Technology, Example: 88700AS-138 x **CLIQ** x 626 x Sidebar x Comp

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

## Auxiliary Locks

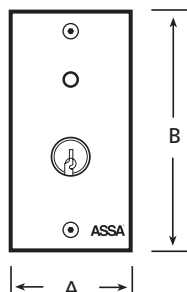


### Keyswitches With Single Gang Plate

Model	Notes	Description	A	B
<b>Twin V-10</b>				
V7700		Single Gang Plate Bi/LED Momentary	2.75	4.50
V7771		Single Gang Plate Bi/LED On/Off	2.75	4.50
<b>Twin Exclusive</b>				
E7700		Single Gang Plate Bi/LED Momentary	2.75	4.50
E7771		Single Gang Plate Bi/LED On/Off	2.75	4.50
<b>Twin 6000 Classic</b>				
7700		Single Gang Plate Bi/LED Momentary	2.75	4.50
7771		Single Gang Plate Bi/LED On/Off	2.75	4.50
<b>Twin Pro</b>				
6700		Single Gang Plate Bi/LED Momentary	2.75	4.50
6771		Single Gang Plate Bi/LED On/Off	2.75	4.50
<b>Twin Maximum</b>				
8870-SG		Single Gang Plate Bi/LED Momentary	2.75	4.50
8871-SG		Single Gang Plate Bi/LED On/Off	2.75	4.50
<b>Twin Maximum Medium Security</b>				
2870-SG		Single Gang Plate Bi/LED Momentary	2.75	4.50
2871-SG		Single Gang Plate Bi/LED On/Off	2.75	4.50

– Twin Maximum available with C4 CLIQ™ Technology. Example: 8870-SG x **CLIQ** x 626 x Sidebar x Comp

## Auxiliary Locks

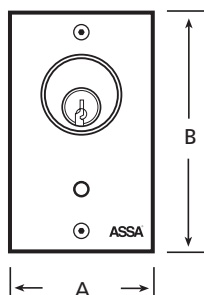


### Keyswitches With Narrow Stile Plate





Model	Notes	Description	A	B
<b>Twin V-10</b>				
V7700-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50
V7771-N		Narrow Stile Plate Bi/LED On/Off	1.75	4.50
<b>Twin Exclusive</b>				
E7700-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50
E7771-N		Narrow Stile Plate Bi/LED On/Off	1.75	4.50
<b>Twin 6000 Classic</b>				
7700-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50
7771-N		Narrow Stile Plate Bi/LED On/Off	1.75	4.50
<b>Twin Pro</b>				
6700-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50
6771-N		Narrow Stile Plate Bi/LED On/Off	1.75	4.50
<b>Twin Maximum</b>				
8870-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50
8871-N		Narrow Stile Plate Bi/LED On/Off	1.75	4.50
<b>Twin Maximum Medium Security</b>				
2870-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50
2871-N		Narrow Stile Plate Bi/LED On/Off	1.75	4.50

– Twin Maximum available with C4 CLIQ™ Technology. Example: 8870-SG x **CLIQ** x 626 x Sidebar x Comp


## Auxiliary Locks



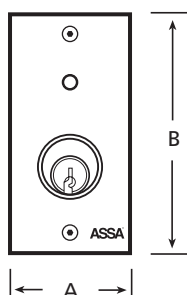
### Mortise Keyswitches With Single Gang Plate

Model	Notes	Description	A	B
<b>Twin V-10</b>				
V6551MKS	*	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50
V6551MKSA	*	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch	2.75	4.50
V6551MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch	2.75	4.50
V6551MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch	2.75	4.50
<b>Twin Exclusive</b>				
E6551MKS	*	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50
E6551MKSA	*	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch	2.75	4.50
E6551MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch	2.75	4.50
E6551MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch	2.75	4.50
<b>Twin 6000 Classic</b>				
6551MKS	*	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50
6551MKSA	*	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch	2.75	4.50
6551MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch	2.75	4.50
6551MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch	2.75	4.50
<b>Twin Pro</b>				
6151MKS	*	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50
6151MKSA	*	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch	2.75	4.50
6151MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch	2.75	4.50
6151MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch	2.75	4.50
<b>Twin Maximum</b>				
8851MKS	* 	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50
8851MKSA	* 	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch	2.75	4.50
8851MKS2	* 	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch	2.75	4.50
8851MKS2A	* 	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch	2.75	4.50
<b>Twin Maximum Medium Security</b>				
2851MKS	*	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50
2851MKSA	*	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch	2.75	4.50
2851MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch	2.75	4.50
2851MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch	2.75	4.50





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

 – Twin Maximum available with C4 CLIQ™ Technology. Example: 8851 MKS x **CLIQ** x 626 x Sidebar x Comp

## Auxiliary Locks



### Mortise Keyswitches With Narrow Stile Plate

Model	Notes	Description	A	B
<b>Twin V-10</b>				
V6551MKS-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50
V6551MKSA-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch	1.75	4.50
V6551MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch	1.75	4.50
V6551MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch	1.75	4.50
<b>Twin Exclusive</b>				
E6551MKS-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50
E6551MKSA-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch	1.75	4.50
E6551MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch	1.75	4.50
E6551MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch	1.75	4.50
<b>Twin 6000 Classic</b>				
6551MKS-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50
6551MKSA-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch	1.75	4.50
6551MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch	1.75	4.50
6551MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch	1.75	4.50
<b>Twin Pro</b>				
6151MKS-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50
6151MKSA-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch	1.75	4.50
6151MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch	1.75	4.50
6151MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch	1.75	4.50
<b>Twin Maximum</b>				
8851MKS-N	* 	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50
8851MKSA-N	* 	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch	1.75	4.50
8851MKS2-N	* 	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch	1.75	4.50
8851MKS2A-N	* 	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch	1.75	4.50
<b>Twin Maximum Medium Security</b>				
2851MKS-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50
2851MKSA-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch	1.75	4.50
2851MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch	1.75	4.50
2851MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch	1.75	4.50

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

 – Twin Maximum available with C4 CLIQ™ Technology. Example: 8851 MKS-N x **CLIQ** x 626 x Sidebar x Comp



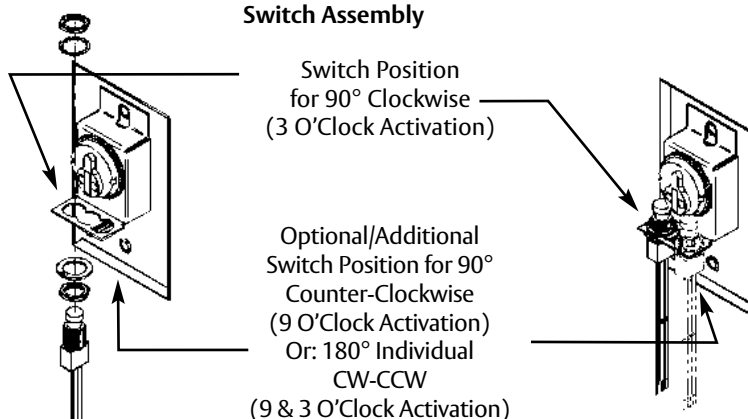
## Auxiliary Locks

**Switch**  
(Momentary/Alternate)



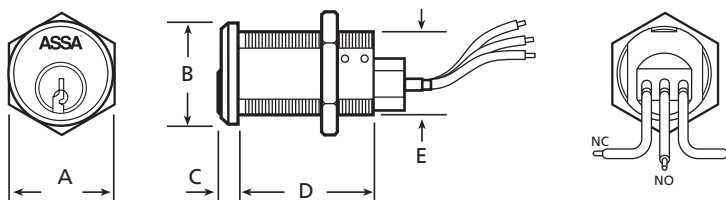
SPTD: 3-Wire (As Shown)  
DPDT: 6-Wire (As Shown x 2 Pole Sets)

### Switch Assembly



## Optional Switches for Mortise Switch Plates

Model	Description
ASMKS	SPDT Momentary
ASMKSA	SPDT Alternate (ON/OFF)
ASMKS2	DPDT Momentary
ASMKS2A	DPDT Alternate (ON/OFF)



## Keyswitches

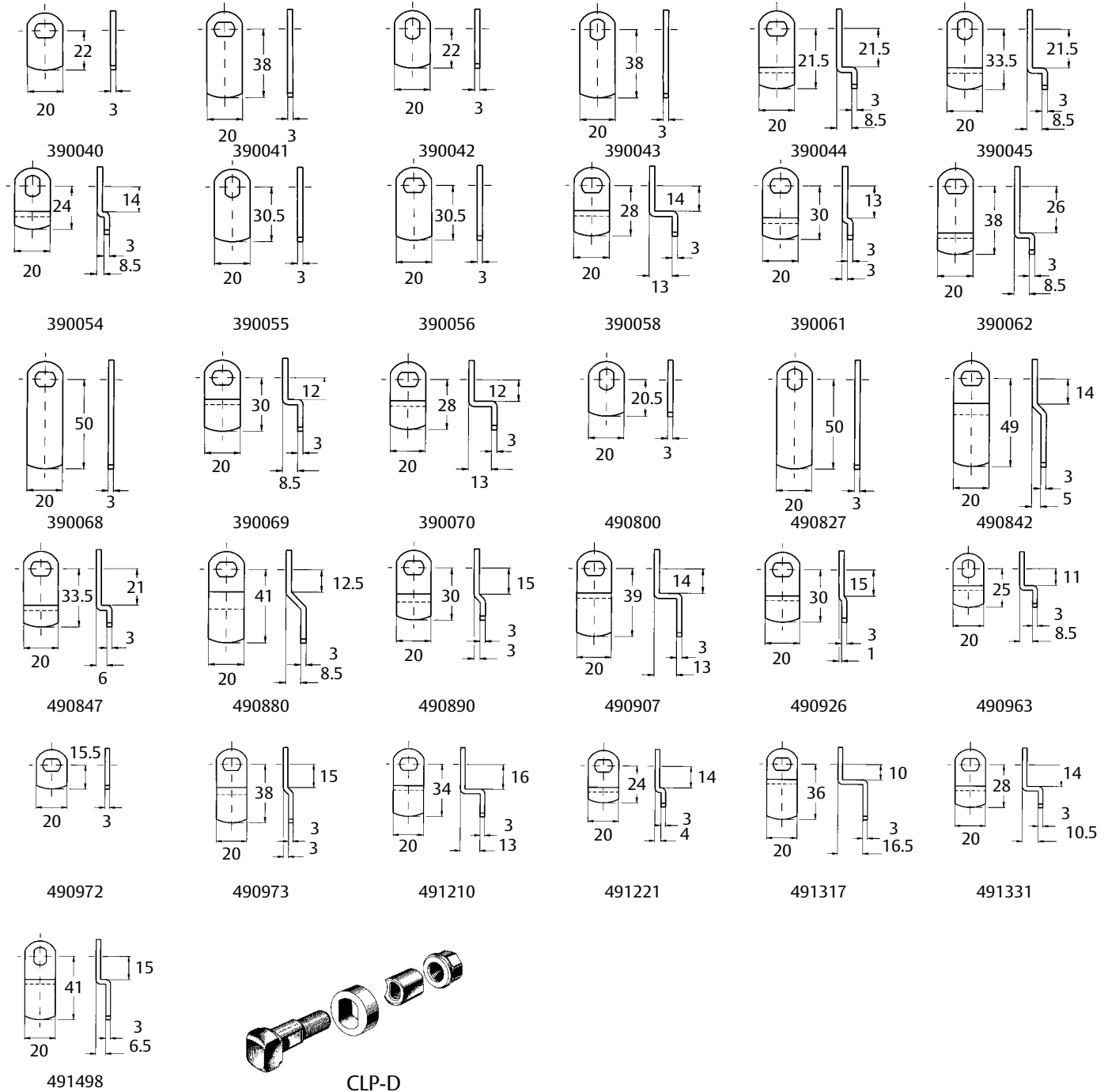
Model#	Notes	Description	A	B	C	D	E
<b>Twin V-10</b>							
V7700-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860
V7771-LP		Keyswitch Switch On/Off	1.025	0.980	0.110	1.510	0.860
<b>Twin Exclusive</b>							
E7700-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860
E7771-LP		Keyswitch Switch On/Off	1.025	0.980	0.110	1.510	0.860
<b>Twin 6000 Classic</b>							
7700-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860
7771-LP		Keyswitch Switch On/Off	1.025	0.980	0.110	1.510	0.860
<b>Twin Pro</b>							
6700-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860
6771-LP		Keyswitch Switch On/Off	1.025	0.980	0.110	1.510	0.860
<b>Twin Maximum</b>							
8870-LP	CLIQ	Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860
8871-LP	CLIQ	Keyswitch Switch On/Off	1.025	0.980	0.110	1.510	0.860
<b>Twin Maximum Medium Security</b>							
2870-LP	CLIQ	Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860
2871-LP	CLIQ	Keyswitch Switch On/Off	1.025	0.980	0.110	1.510	0.860

CLIQ – Twin Maximum available with C4 CLIQ™ Technology. Example: 8870-LP x CLIQ x 626 x Sidebar x Comp

# Auxiliary Locks

## Cam Lock Catches

All measurements are in millimeters, to convert to inches multiply millimeters x .039370.



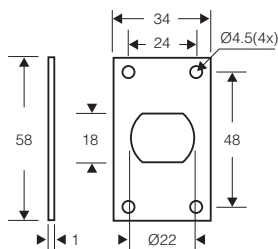
## Cam Lock Accessories

Model No.	Description
See Above	Cam Lock Catches
CLK-1	Cam Lock Catch Kit (Includes 2 ea. of 31 Cam Catches)
CLP-D	7/8" Double D Cam Lock/Switch Lock Punch

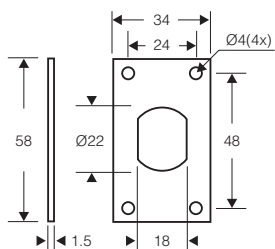
# Auxiliary Locks

## Cam Lock Accessories

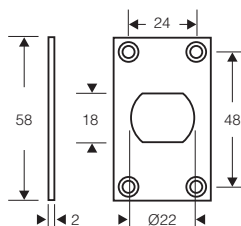
All measurements are in millimeters, to convert to inches multiply millimeters x .039370.



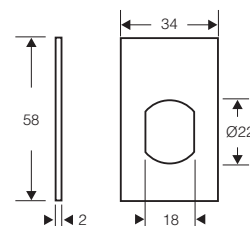
Fixing Plate 490825



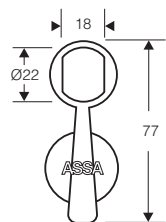
Fixing Plate 491449



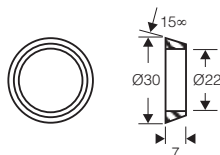
Front Plate 490821



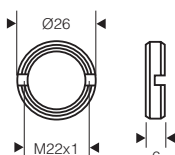
Front Plate 491450



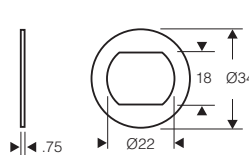
Dust Cap 391053



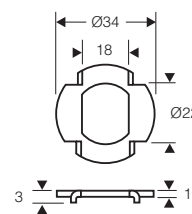
Cylinder Ring 490271



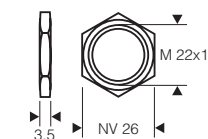
Housing Washer 490663



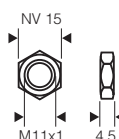
Front Plate 490657



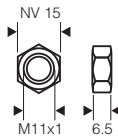
Nail Plate 491299



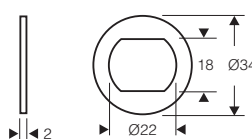
Housing Nut 490610



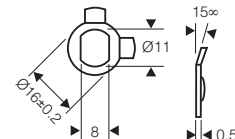
Nut  
490583



Nut  
491439



Front Plate 497008



Lock Washer 490246

## Cam Lock Accessories

Model No.	Description
490271	Cam Lock cylinder ring
391053	Cam Lock dust cap
490825	Cam Lock fixing plate
491449	Cam Lock fixing plate
497008	Cam Lock front plate
490657	Cam Lock front plate
490821	Cam Lock front plate
491450	Cam Lock front plate
490246	Cam Lock washer
491299	Cam Lock nail plate
490583	Cam Lock nut
491439	Cam Lock nut (m11x1)
490610	Cam Lock housing nut (m22x1)
490663	Cam Lock housing washer

## Padlocks

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 and feature the same level of patented key control as all ASSA high security cylinders.



### Benefits:

- Sturdy design ensures maximum durability
- Class 2 available in key retaining and non-key retaining, extended shackle, and interchangeable core
- Shackle made of rust proof stainless 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
- Patented key control

### Warranty:

- ASSA guarantees its products against defective workmanship or wear resulting from defects for life

### Certification:

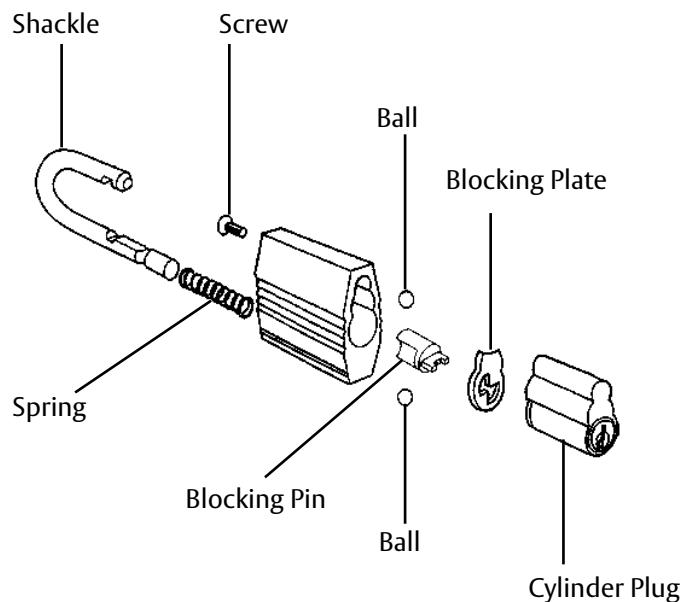
- All ASSA Padlock cylinders are U.L. 437 listed

### Technical Information:

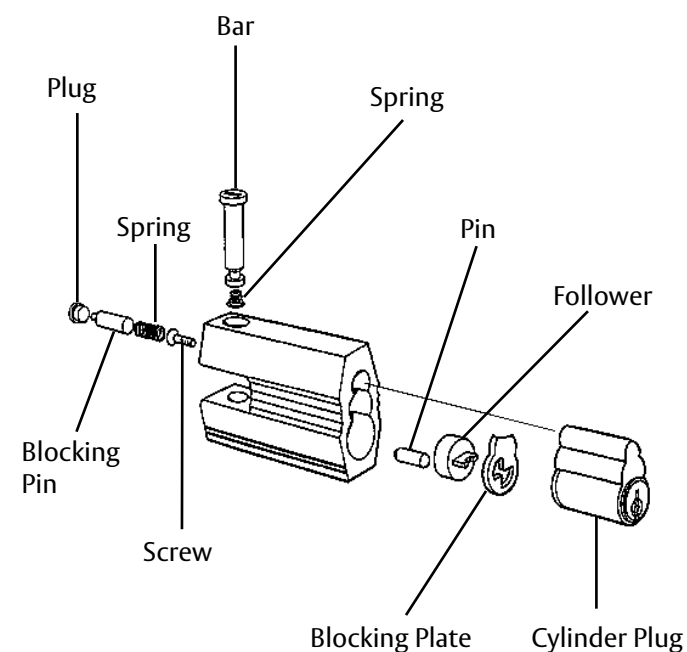
- Class 2 body extruded brass, stainless steel shackle, tensile strength 1.5 tons
- Class 3 body case hardened steel, stainless steel shackle, tensile strength 4.5 tons
- Class 2 convertible from key retaining to non-key retaining
- Hockey Puck style body can withstand up to 10,000 lbs of force from bolt cutters
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

## Padlocks Exploded Views

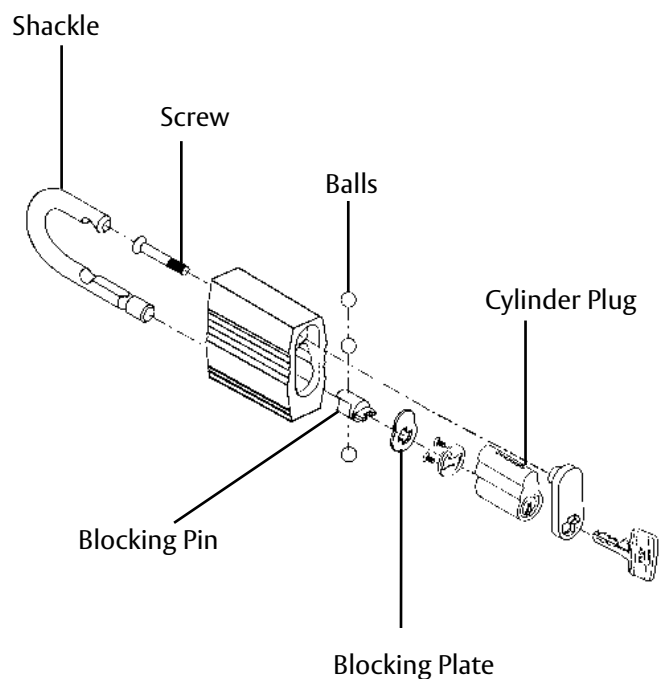
### #2 Padlock



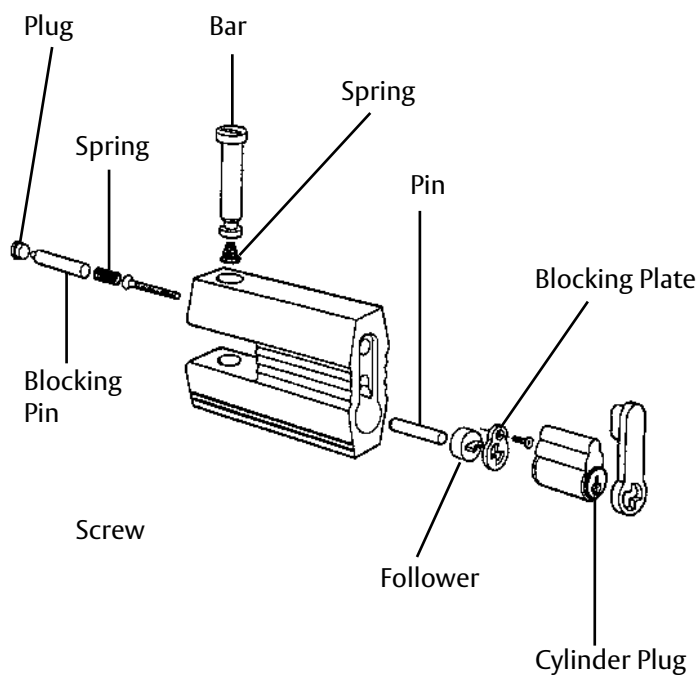
### #2 Shrouded Padlock



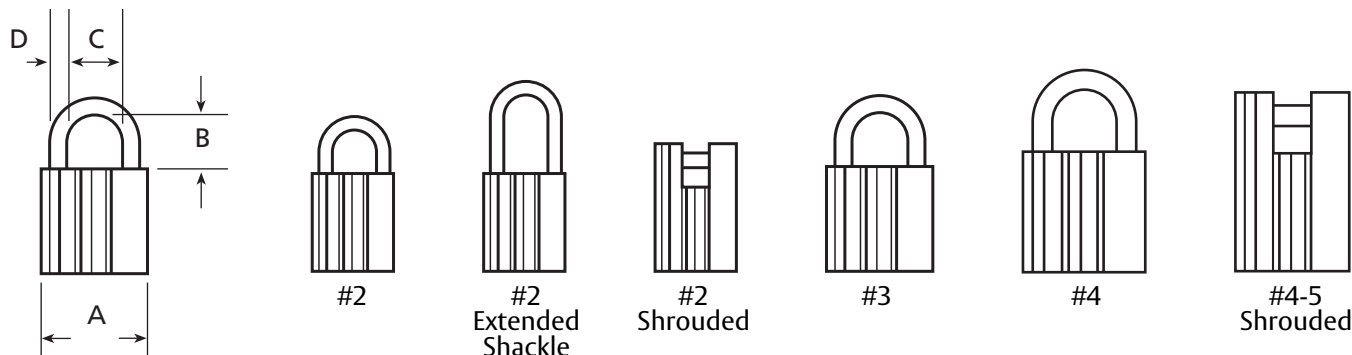
### #3 Padlock



### #4-5 Padlock



# Padlocks

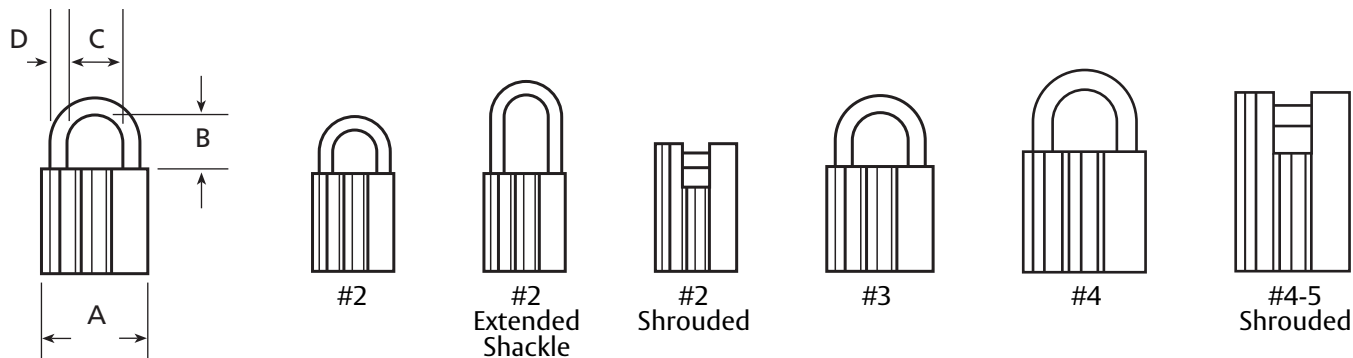


## Padlocks

Model	Description	A	B	C	D
<b>Twin V-10</b>					
V65190B	No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315
V65190LB	No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
V65190SB	No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315
V65191B	No.2 Key-Retaining	1.900	1.100	0.940	0.315
V65191LB	No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
V65391B	No.3 Key-Retaining	2.450	1.235	1.295	0.395
V65391SB	No.3 Key Ret. w/Shrouded Shackle	2.450	0.710	0.590	0.395
V65491B	No.4 Key-Retaining	3.150	0.985	0.830	0.550
V65591SB	No.5 Key Ret. w/Shrouded Shackle	3.150	0.985	0.830	0.550
<b>Twin Exclusive</b>					
E65190B	No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315
E65190LB	No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
E65190SB	No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315
E65191B	No.2 Key-Retaining	1.900	1.100	0.940	0.315
E65191LB	No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
E65391B	No.3 Key-Retaining	2.450	1.235	1.295	0.395
E65391SB	No.3 Key Ret. w/Shrouded Shackle	2.450	0.710	0.590	0.395
E65491B	No.4 Key-Retaining	3.150	0.985	0.830	0.550
E65591SB	No.5 Key Ret. w/Shrouded Shackle	3.150	0.985	0.830	0.550
<b>Twin 6000 Classic</b>					
65190B	No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315
65190LB	No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
65190SB	No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315
65191B	No.2 Key-Retaining	1.900	1.100	0.940	0.315
65191LB	No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
65391B	No.3 Key-Retaining	2.450	1.235	1.295	0.395
65391SB	No.3 Key Ret. w/Shrouded Shackle	2.450	0.710	0.590	0.395
65491B	No.4 Key-Retaining	3.150	0.985	0.830	0.550
65591SB	No.5 Key Ret. w/Shrouded Shackle	3.150	0.985	0.830	0.550



## Padlocks

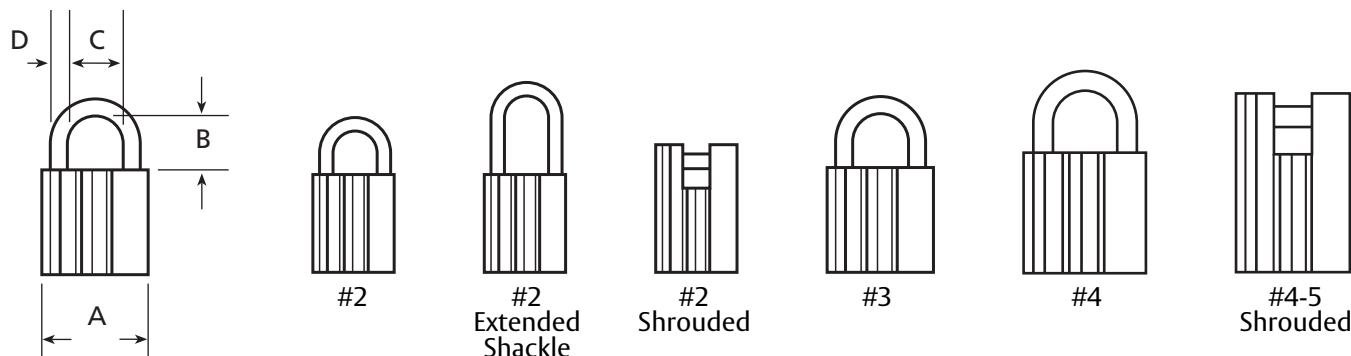


### Padlocks

Model	Notes	Description	A	B	C	D
<b>Twin Pro</b>						
61190B		No.2 Non-Key-Retaining	900	1.100	0.940	0.315
61190LB		No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
61190SB		No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315
61191B		No.2 Key-Retaining	1.900	1.100	0.940	0.315
61191LB		No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
61391B		No.3 Key-Retaining	2.450	1.235	1.295	0.395
61391SB		No.3 Key Ret. w/Shrouded Shackle	2.450	0.710	0.590	0.395
61491B		No.4 Key-Retaining	3.150	0.985	0.830	0.550
61591SB		No.5 Key Ret. w/Shrouded Shackle	3.150	0.985	0.830	0.550
<b>Twin Maximum</b>						
88190B	CLIQ	No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315
88190LB	CLIQ	No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
88190SB	CLIQ	No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315
88191B	CLIQ	No.2 Key-Retaining	1.900	1.100	0.940	0.315
88191LB	CLIQ	No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
88391B	CLIQ	No.3 Key-Retaining	2.450	1.235	1.295	0.395
88391SB	CLIQ	No.3 Key Ret. w/Shrouded Shackle	2.450	0.710	0.590	0.395
88491B	CLIQ	No.4 Key-Retaining	3.150	0.985	0.830	0.550
88591SB	CLIQ	No.5 Key Ret. w/Shrouded Shackle	3.150	0.985	0.830	0.550
<b>600 Series Classic</b>						
6190B		No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315
6190LB		No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
6190SB		No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315
6191B		No.2 Key-Retaining	1.900	1.100	0.940	0.315
6191LB		No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
6391B		No.3 Key-Retaining	2.450	1.235	1.295	0.395

CLIQ – Twin Maximum available with C4 CLIQ™ Technology. Example: 88190B x CLIQ x Comp

## Padlocks



### Interchangeable Core Padlocks

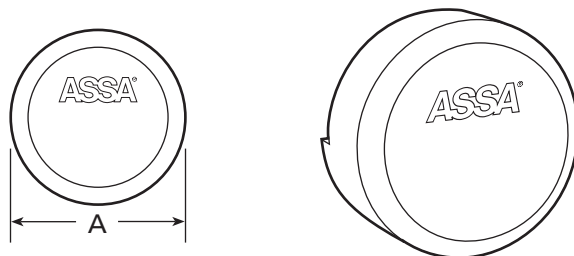
Model	Notes	Description	A	B	C	D
<b>Twin V-10</b>						
V65191BIC		No.2 Key-Retaining IC	1.900	1.100	0.940	0.315
V65191LBIC		No.2 Key-Retaining Ext. Shackle IC	1.900	2.035	0.940	0.315
<b>Twin Exclusive</b>						
E65191BIC		No.2 Key-Retaining IC	1.900	1.100	0.940	0.315
E65191LBIC		No.2 Key-Retaining Ext. Shackle IC	1.900	2.035	0.940	0.315
<b>Twin 6000 Classic</b>						
65191BIC		No.2 Key-Retaining IC	1.900	1.100	0.940	0.315
65191LBIC		No.2 Key-Retaining Ext. Shackle IC	1.900	2.035	0.940	0.315
<b>Twin Pro</b>						
61191BIC		No.2 Key-Retaining, IC	1.900	1.100	0.940	0.315
61191LBIC		No.2 Key-Retaining Ext. Shackle, IC	1.900	2.035	0.940	0.315
<b>Twin Maximum</b>						
88191BIC		No.2 Key-Retaining, IC	1.900	1.100	0.940	0.315
88191LBIC		No.2 Key-Retaining Ext. Shackle, IC	1.900	2.035	0.940	0.315

### Padlock Cylinders Only


Model	Notes	Description
<b>Twin V-10</b>		
V65911		Padlock Cylinder No. 2, 3, 4-5
<b>Twin Exclusive</b>		
E65911		Padlock Cylinder No. 2, 3, 4-5
<b>Twin 6000 Classic</b>		
65911		Padlock Cylinder No. 2, 3, 4-5
<b>Twin Pro</b>		
61911		Padlock Cylinder No. 2, 3, 4-5
<b>Twin Maximum</b>		
88911		Padlock Cylinder No. 2, 3, 4-5
<b>600 Series Classic</b>		
6911		Padlock Cylinder No. 2, 3, 4-5

– Twin Maximum available with C4 CLIQ™ Technology. Example: 88911 x CLIQ x Comp


# Padlocks



## “Hockey Puck” Shackle Less Padlock

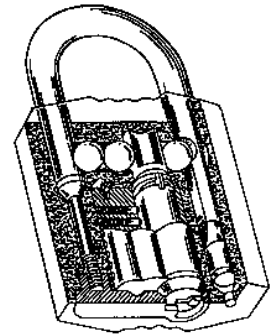
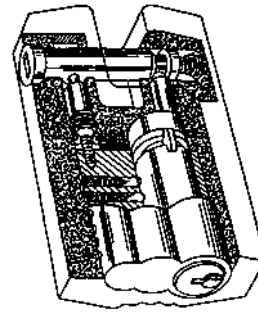
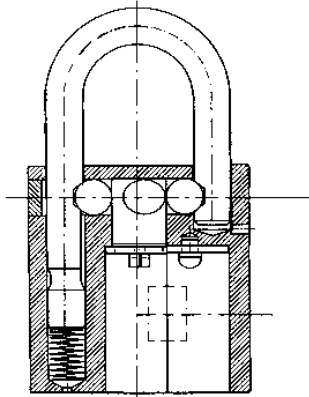
Model	Notes	Description	A
<b>Twin V-10</b>			
V6540		Hockey Puck Style Padlock	2.875
<b>Twin Exclusive</b>			
E6540		Hockey Puck Style Padlock	2.875
<b>Twin Pro</b>			
6140		Hockey Puck Style Padlock	2.875
<b>Twin Maximum</b>			
8840		Hockey Puck Style Padlock	2.875

## “Hockey Puck” Cylinders Only

Model	Notes	Description
<b>Twin V-10</b>		
V65411		Hockey Puck Cylinder
<b>Twin Exclusive</b>		
E65411		Hockey Puck Cylinder
<b>Twin Pro</b>		
61411		Hockey Puck Cylinder
<b>Twin Maximum</b>		
88411		Hockey Puck Cylinder

 – Twin Maximum available with C4 CLIQ™ Technology. Example: 88911 x **CLIQ** x Comp

## Padlocks Component Parts



### Padlocks Parts

Model No.	Description
806898	No.2 Regular Shackle
807217	No.2 Extended Shackle
P250517	No.2 Shackle Spring
806910	No.3 Padlock Shackle
809387	No.2 Key-Retaining Blocking pin
809388	No.2 Non-Key-Retaining Blocking Pin/Spring/Tailpiece
P793810	No.2 Tailpiece Cam Screws
867046	No.2 Tailpiece Washer
P857300	No.2 Plate & No. 3 Plate
803607	No.2 Locking Balls
P793110	No.2 Cylinder Retaining Screw
806913	No.3 Cylinder Retaining Screw
803575	No.3 Locking Ball Bearings
806911	No.3 Blocking Pin
353969	Twin V-10 Padlock Cylinder Plug
367018	Twin Exclusive/6000 Classic Padlock Cylinder Plug (Specify Profile)
816068	Twin Pro/Twin Maximum Padlock Cylinder Plug (Specify Profile)

## Profile Cylinders

ASSA manufactures a wide variety of high security European style profile cylinders including the Scandinavian oval cylinder used in ASSA modular locksets, the Euro Din cylinder, and the British Oval cylinder. Available for different door thicknesses and featuring an adjustable cam actuator, ASSA profile cylinders can be used with many types of imported lockset and specialty hardware. All profile cylinders are protected with ASSA's patented key control and can be keyed into any new or existing ASSA key system.



### Benefits:

- Retrofits wide variety of European applications
- Adjustable cam actuator
- Two independent locking mechanisms to ensure security and optimum pick resistance
- Inactive "false" grooves on side pins designed to catch picking tools
- Patented key control

### Warranty:

- ASSA guarantees its products against defective workmanship or wear resulting from defects for life

### Certification:

- All ASSA Profile Cylinders are U.L. 437 listed

### Technical Information:

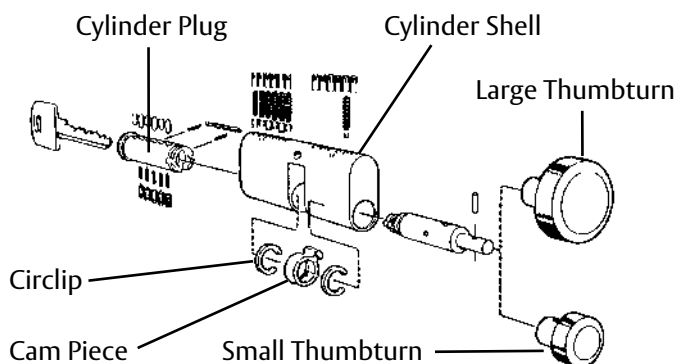
- Euro Din and British Oval available for 3 different door thicknesses
- Cylinder housing and plug made of high quality brass
- Stainless steel top pins
- Bottom pins and master pins are nickel silver

### Finishes:

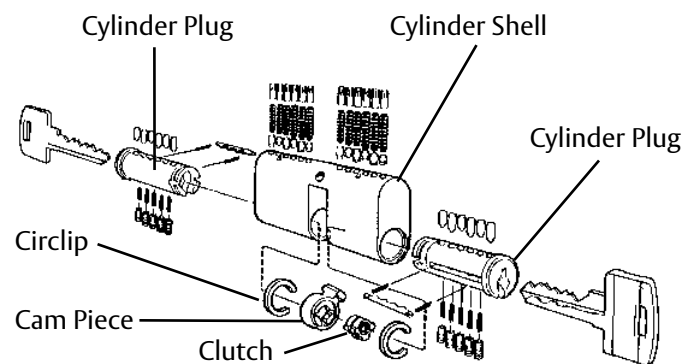
<u>BHMA Symbol</u>	<u>U.S. Symbol</u>	<u>Euro Finishes</u>	<u>Description</u>
625	US 26	11	Bright Chrome
626	US 26D	13	Satin Chrome
605	US 3	20	Bright Brass
606	US 4	23	Satin Brass
612	US 10	33	Satin Bronze
624	US 10B	46	Dark Oxidized Bronze

## Profile Cylinders Exploded View

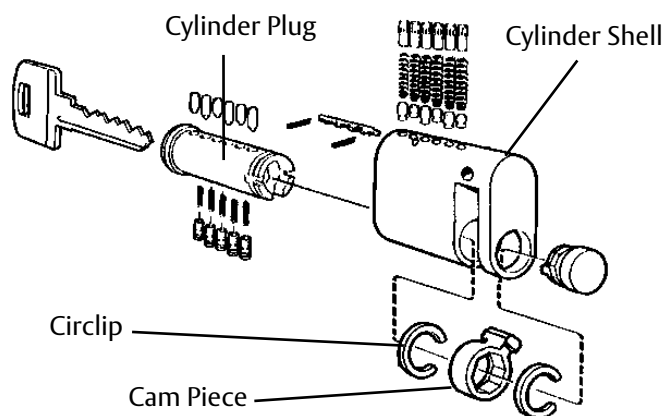
### 6531 – Large Thumbturn Model 6534 – Small Thumbturn Model



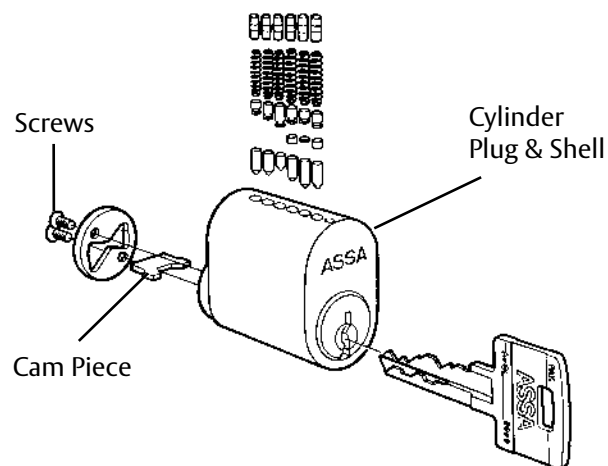
### 6532 – Double Cylinder Model



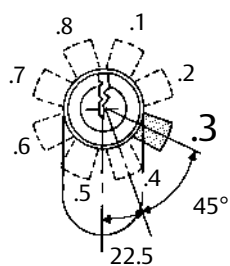
### 6533 – Single Cylinder Model



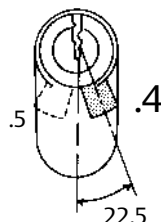
### Oval Cylinders



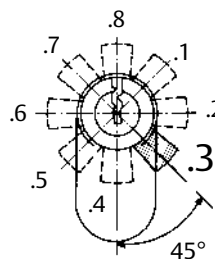
### How To Determine Cam Position:



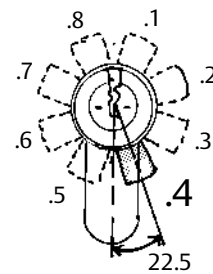
V6531/V6534



V6522/V6532



V6523/V6533



V6521/V6524

Twin Pro available through special order.

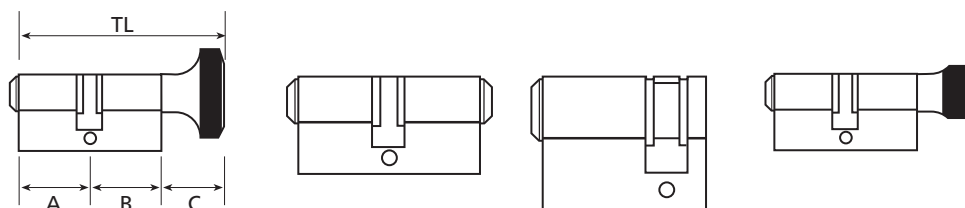
British Oval and Euro Din Cylinders are available in 626 and 605 finish only.



## Profile Cylinders

### Profile Cylinder Key:

- TL** – Total Length
- A** – Exterior Length
- B** – Interior Length
- C** – Knob Length



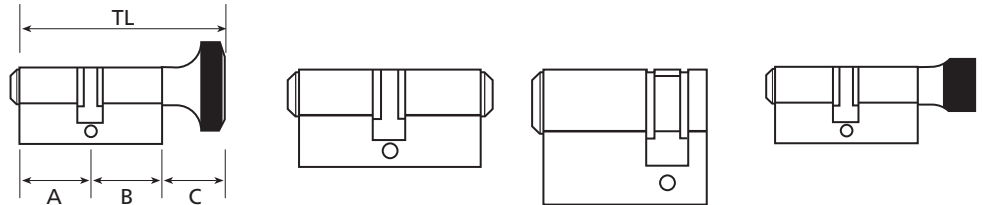
### British Oval Profile Cylinders

Model No.	Description	TL	A	B	C
<b>Twin V-10</b>					
V6531	61mm Large Single Cyl.	3.481	1.209	1.209	1.063
V6531	71mm Large Single Cyl.	3.875	1.406	1.406	1.063
V6531	81mm Large Single Cyl.	4.269	1.603	1.603	1.063
V6534	61mm Small Single Cyl.	3.481	1.209	1.209	1.063
V6534	71mm Small Single Cyl.	3.875	1.406	1.406	1.063
V6534	81mm Small Single Cyl.	4.269	1.603	1.603	1.063
V6532	61mm Double Cylinder	2.418	1.209	1.209	N/A
V6532	71mm Double Cylinder	2.812	1.406	1.406	N/A
V6532	81mm Double Cylinder	3.206	1.603	1.603	N/A
V6533	40.5mm Single Cylinder	1.595	1.209	0.398	N/A
V6533	45.5mm Single Cylinder	1.794	1.406	0.398	N/A
V6533	50.5mm Single Cylinder	1.990	1.603	0.398	N/A
<b>Twin Exclusive</b>					
E6531	61mm Large Single Cyl.	3.481	1.209	1.209	1.063
E6531	71mm Large Single Cyl.	3.875	1.406	1.406	1.063
E6531	81mm Large Single Cyl.	4.269	1.603	1.603	1.063
E6534	61mm Small Single Cyl.	3.481	1.209	1.209	1.063
E6534	71mm Small Single Cyl.	3.875	1.406	1.406	1.063
E6534	81mm Small Single Cyl.	4.269	1.603	1.603	1.063
E6532	61mm Double Cylinder	2.418	1.209	1.209	N/A
E6532	71mm Double Cylinder	2.812	1.406	1.406	N/A
E6532	81mm Double Cylinder	3.206	1.603	1.603	N/A
E6533	40.5mm Single Cylinder	1.595	1.209	0.398	N/A
E6533	45.5mm Single Cylinder	1.794	1.406	0.398	N/A
E6533	50.5mm Single Cylinder	1.990	1.603	0.398	N/A

# Profile Cylinders

**Profile Cylinder Key:**

- TL** – Total Length  
**A** – Exterior Length  
**B** – Interior Length  
**C** – Knob Length

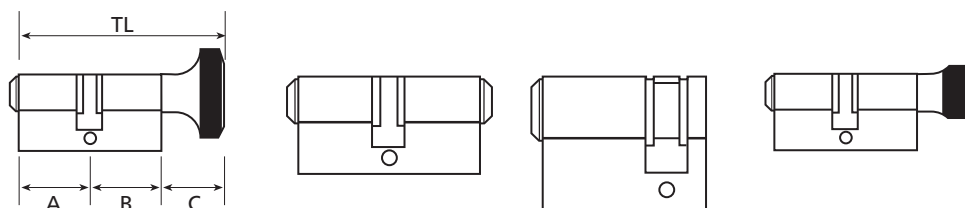

**British Oval Profile Cylinders**

Model No.	Description	TL	A	B	C
<b>Twin 6000 Classic</b>					
6531	61mm Large Single Cyl.	3.481	1.209	1.209	1.063
6531	71mm Large Single Cyl.	3.875	1.406	1.406	1.063
6531	81mm Large Single Cyl.	4.269	1.603	1.603	1.063
6534	61mm Small Single Cyl.	3.481	1.209	1.209	1.063
6534	71mm Small Single Cyl.	3.875	1.406	1.406	1.063
6534	81mm Small Single Cyl.	4.269	1.603	1.603	1.063
6532	61mm Double Cylinder	2.418	1.209	1.209	N/A
6532	71mm Double Cylinder	2.812	1.406	1.406	N/A
6532	81mm Double Cylinder	3.206	1.603	1.603	N/A
6533	40.5mm Single Cylinder	1.595	1.209	0.398	N/A
6533	45.5mm Single Cylinder	1.794	1.406	0.398	N/A
6533	50.5mm Single Cylinder	1.990	1.603	0.398	N/A
<b>600 Series Classic</b>					
631	61mm Large Single Cyl.	3.481	1.209	1.209	1.063
631	71mm Large Single Cyl.	3.875	1.406	1.406	1.063
631	81mm Large Single Cyl.	4.269	1.603	1.603	1.063
634	61mm Small Single Cyl.	3.481	1.209	1.209	1.063
634	71mm Small Single Cyl.	3.875	1.406	1.406	1.063
634	81mm Small Single Cyl.	4.269	1.603	1.603	1.063
632	61mm Double Cylinder	2.418	1.209	1.209	N/A
632	71mm Double Cylinder	2.812	1.406	1.406	N/A
632	81mm Double Cylinder	3.206	1.603	1.603	N/A
633	40.5mm Single Cylinder	1.595	1.209	0.398	N/A
633	45.5mm Single Cylinder	1.794	1.406	0.398	N/A
633	50.5mm Single Cylinder	1.990	1.603	0.398	N/A

## Profile Cylinders

### Profile Cylinder Key:

- TL** – Total Length  
**A** – Exterior Length  
**B** – Interior Length  
**C** – Knob Length



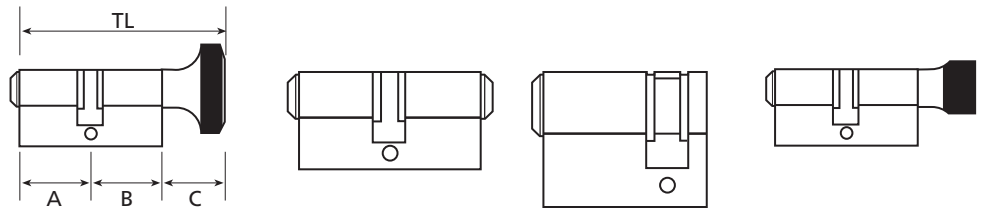
### Din Euro Profile Cylinders

Model No.	Description	TL	A	B	C
<b>Twin V-10</b>					
V6521	61mm Large Single Cyl.	3.470	1.210	1.210	1.050
V6521	71mm Large Single Cyl.	3.864	1.407	1.407	1.050
V6521	81mm Large Single Cyl.	4.258	1.604	1.604	1.050
V6524	61mm Small Single Cyl.	3.480	1.210	1.210	1.065
V6524	71mm Small Single Cyl.	3.864	1.407	1.407	1.065
V6524	81mm Small Single Cyl.	4.258	1.604	1.604	1.065
V6522	61mm Double Cylinder	4.420	1.210	1.210	N/A
V6522	71mm Double Cylinder	2.814	1.407	1.407	N/A
V6522	81mm Double Cylinder	3.208	1.604	1.604	N/A
V6523	40.5mm Single Cylinder	1.571	1.203	0.368	N/A
V6523	45.5mm Single Cylinder	1.768	1.400	0.368	N/A
V6523	50.5mm Single Cylinder	1.965	1.597	0.368	N/A
<b>Twin Exclusive</b>					
E6521	61mm Large Single Cyl.	3.470	1.210	1.210	1.050
E6521	71mm Large Single Cyl.	3.864	1.407	1.407	1.050
E6521	81mm Large Single Cyl.	4.258	1.604	1.604	1.050
E6524	61mm Small Single Cyl.	3.480	1.210	1.210	1.065
E6524	71mm Small Single Cyl.	3.864	1.407	1.407	1.065
E6524	81mm Small Single Cyl.	4.258	1.604	1.604	1.065
E6522	61mm Double Cylinder	4.420	1.210	1.210	N/A
E6522	71mm Double Cylinder	2.814	1.407	1.407	N/A
E6522	81mm Double Cylinder	3.208	1.604	1.604	N/A
E6523	40.5mm Single Cylinder	1.571	1.203	0.368	N/A
E6523	45.5mm Single Cylinder	1.768	1.400	0.368	N/A
E6523	50.5mm Single Cylinder	1.965	1.597	0.368	N/A

# Profile Cylinders

## Profile Cylinder Key:

- TL** – Total Length  
**A** – Exterior Length  
**B** – Interior Length  
**C** – Knob Length



## Din Euro Profile Cylinders

Model No.	Description	TL	A	B	C
<b>Twin 6000 Classic</b>					
6521	61mm Large Single Cyl.	3.470	1.210	1.210	1.050
6521	71mm Large Single Cyl.	3.864	1.407	1.407	1.050
6521	81mm Large Single Cyl.	4.258	1.604	1.604	1.050
6524	61mm Small Single Cyl.	3.480	1.210	1.210	1.065
6524	71mm Small Single Cyl.	3.864	1.407	1.407	1.065
6524	81mm Small Single Cyl.	4.258	1.604	1.604	1.065
6522	61mm Double Cylinder	4.420	1.210	1.210	N/A
6522	71mm Double Cylinder	2.814	1.407	1.407	N/A
6522	81mm Double Cylinder	3.208	1.604	1.604	N/A
6523	40.5mm Single Cylinder	1.571	1.203	0.368	N/A
6523	45.5mm Single Cylinder	1.768	1.400	0.368	N/A
6523	50.5mm Single Cylinder	1.965	1.597	0.368	N/A
<b>600 Series Classic</b>					
621	61mm Large Single Cyl.	3.470	1.210	1.210	1.050
621	71mm Large Single Cyl.	3.864	1.407	1.407	1.050
621	81mm Large Single Cyl.	4.258	1.604	1.604	1.050
624	61mm Small Single Cyl.	3.480	1.210	1.210	1.065
624	71mm Small Single Cyl.	3.864	1.407	1.407	1.065
624	81mm Small Single Cyl.	4.258	1.604	1.604	1.065
622	61mm Double Cylinder	4.420	1.210	1.210	N/A
622	71mm Double Cylinder	2.814	1.407	1.407	N/A
622	81mm Double Cylinder	3.208	1.604	1.604	N/A
623	40.5mm Single Cylinder	1.571	1.203	0.368	N/A
623	45.5mm Single Cylinder	1.768	1.400	0.368	N/A
623	50.5mm Single Cylinder	1.965	1.597	0.368	N/A

## Oval Cylinders

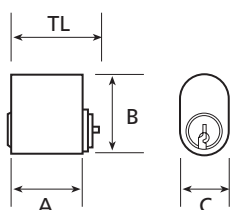
### Profile Cylinder Key:

**TL** – Total Length

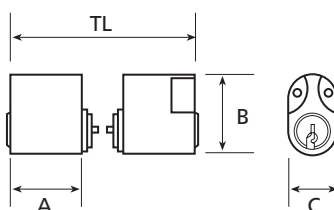
**A** – Cylinder Length

**B** – Cylinder Height

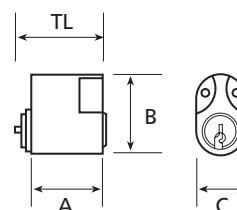
**C** – Cylinder Width



6501



6502



6503

### Oval Cylinders

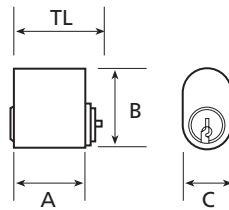
Model No.	Description	TL	A	B	C
<b>Twin V-10</b>					
V6501	Oval, Outside	1.577	1.236	1.376	0.784
V6501L	Oval, Outside for 505	1.577	1.236	1.376	0.784
V6502	Oval, Double	N/A	1.236	1.376	0.784
V6503	Oval, Inside	1.577	1.236	1.376	0.784
<b>Twin Exclusive</b>					
E6501	Oval, Outside	1.577	1.236	1.376	0.784
E6501L	Oval, Outside for 505	1.577	1.236	1.376	0.784
E6502	Oval, Double	N/A	1.236	1.376	0.784
E6503	Oval, Inside	1.577	1.236	1.376	0.784
<b>Twin 6000 Classic</b>					
6501	Oval, Outside	1.577	1.236	1.376	0.784
6501L	Oval, Outside for 505	1.577	1.236	1.376	0.784
6502	Oval, Double	N/A	1.236	1.376	0.784
6503	Oval, Inside	1.577	1.236	1.376	0.784
<b>600 Series Classic</b>					
601	Oval, Outside	1.577	1.236	1.376	0.784
601L	Oval, Outside for 505	1.577	1.236	1.376	0.784
602	Oval, Double	N/A	1.236	1.376	0.784
603	Oval, Inside	1.577	1.236	1.376	0.784

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

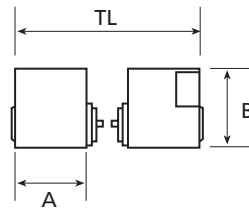
## Oval Cylinders

### Profile Cylinder Key:

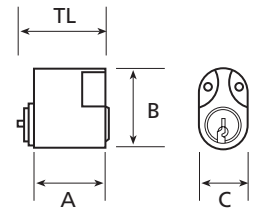
- TL** – Total Length
- A** – Cylinder Length
- B** – Cylinder Height
- C** – Cylinder Width



6501



6502



6503

### Oval Cylinder Parts

Model	Description
<b>Twin V-10</b>	
867064	Oval Cyl. Housing, Outside
867110	Oval Cyl. Housing, Inside
353969	Oval Cylinder Plug
<b>Twin Exclusive/6000 Classic</b>	
867064	Oval Cyl. Housing, Outside
867110	Oval Cyl. Housing, Inside
367018	Oval Cylinder Plug (Specify Profile)

### Oval Cylinder Adapters

ASSA cylinder adapters allow the use of the Schlage KIK/KIL cylinder with ASSA mortise locks without having to replace existing master key system.

Model No.	Description
803170	Oval Outside Cylinder Adapter, for Schlage KIK/KIL Cylinder
803171	Oval Inside Cylinder Adapter, for Schlage KIK/KIL Cylinder
804215	Schlage Adapter Tailpiece (Will fit 505 function)

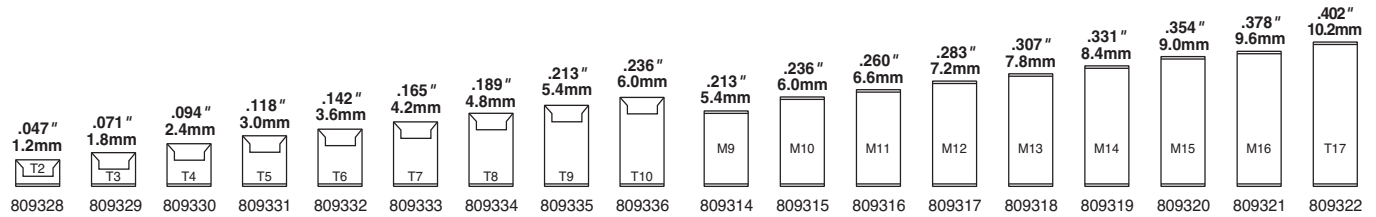
## Pin Kits, Tools & Accessories

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, and various state-of-the-art key management and master key software programs for both single site and network applications.





## Interchangeable Core Parts



### Interchangeable Core Parts

Model	Notes	Description
354023		Control Sleeve
353213	*	IC Inner Plug
353968	*	V-10 IC Inner Plug
807401		IC C-Ring
807402		IC Cover Slide
807403		IC Cam Adapter
807404		IC Wave Washer
807405		IC Rubber Stop
810695	*	IC Core (Figure-8) Housing
807411	*	IC Mortise/Rim Housing
809340		IC Cylinder Springs (1st Four Chambers)
809312		IC Plug Spacer Washer

### Top Pins For Interchangeable Core Cylinders Only

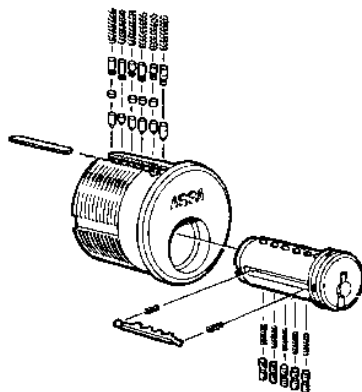
Model	Notes	Description	Package Quantity
809328		Top Pin #2	100
809329		Top Pin #3	100
809330		Top Pin #4	100
809331		Top Pin #5	100
809332		Top Pin #6	100
809333		Top Pin #7	100
809334		Top Pin #8	100
809335		Top Pin #9	100
809336		Top Pin #10	100

### Master Pins For Interchangeable Core Cylinders Only

Model	Notes	Description	Package Quantity
809314		Master Pin #9	100
809315		Master Pin #10	100
809316		Master Pin #11	100
809317		Master Pin #12	100
809318		Master Pin #13	100
809319		Master Pin #14	100
809320		Master Pin #15	100
809321		Master Pin #16	100
809322		Master Pin #17	100

\*Indicate product finish.

## Pins, Springs & Closers



### Pins, Springs & Closers

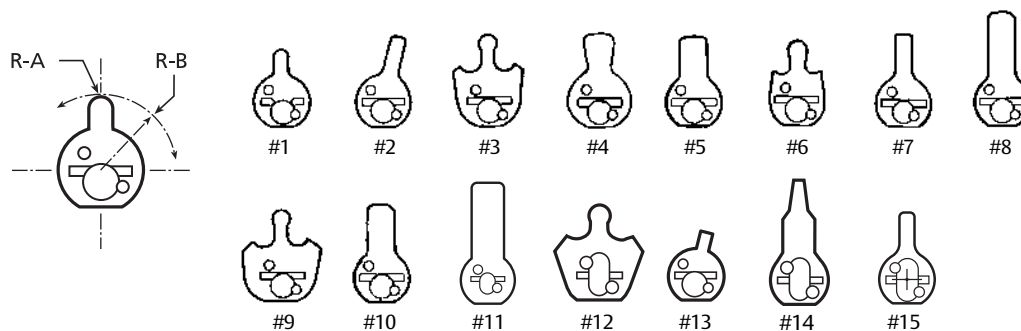
Model No.	Notes	Description	Package Quantity
867066/807261		Driver Pin 1-2	100
867067/807262		Driver Pin 3-4	100
867068/807263		Driver Pin 5-6	100
867069/807264		Driver Pin 7-8-9	100
867070		Master Pin 1	100
867071		Master Pin 2	100
867072		Master Pin 3	100
867073		Master Pin 4	100
867074		Master Pin 5	100
867075		Master Pin 6	100
867076		Master Pin 7	100
867077		Master Pin 8	100
867078		Bottom Pin 1	100
867079		Bottom Pin 2	100
867080		Bottom Pin 3	100
867081		Bottom Pin 4	100
867082		Bottom Pin 5	100
867083		Bottom Pin 6	100
867084		Bottom Pin 7	100
867085		Bottom Pin 8	100
867086		Bottom Pin 9	100
867065		Cylinder Springs	100
267008	*	V-10, Twin 6000, & Twin Exclusive Sidebar	25
867015		Twin Side Pins	50
353838		V-10 Left Hand Side Pins	50
816080		Twin Pro Side Pins	100
359654		Twin Maximum Left Hand Side Pins	100
807164		V-10/Twin Pro Sidebar Springs	100
807165		V-10/Twin Pro Sidepin Springs	100
867087		Twin Sidepin Springs	100
867088		Twin Sidebar Springs	100
868141		Pin Chamber Closing Strips, Mort, Rim, KIK	100
867093		Closing Plugs, Oval Cylinders	100
806346		Pin Chamber Closing Screws - Jumbo, Mogul, Dbolt	100

\*Specify Code

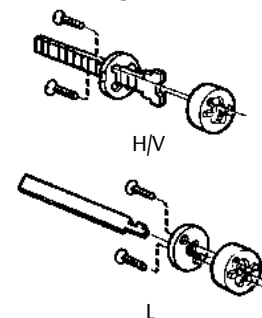
## Cams & Tailpieces

### Cam Key:

R-A – Head Radius • R-B – Overall Radius



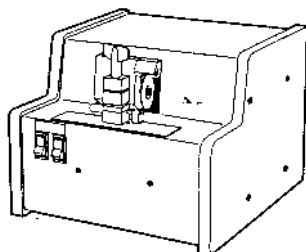
### Tailpieces



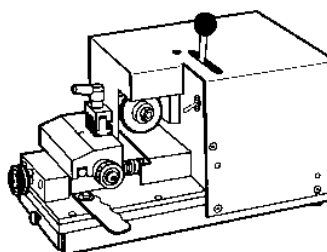
## Cams & Tailpieces

Model #	Description	R-A	R-B	Package Qty.
867445	#1 Adams Rite Cam	0.118	0.555	10
867452	#2 Sargent Cam	N/A	0.709	10
867446	#3 Corbin Clover Leaf Cam	0.114	0.602	10
867447	#4 Corbin Beaver Tail Cam	N/A	0.732	10
872610	#5 Yale/Standard Cam	N/A	0.709	10
867453	#6 Schlage "L" Cam	0.124	0.516	10
805412	#7 Segal Type Cam	N/A	0.779	10
806471	#8 Jumbo Corbin Cam	N/A	0.914	10
907306	#9 Best 30H Series	0.114	0.602	10
353445	#10 Airtec/Norment Cam	N/A	0.787	10
809337	#11 Airtec/Norment Mogul Cam	N/A	1.165	10
354945	#12 Corbin Jumbo Clover Leaf Cam	0.114	0.828	10
355849	#13 Sargent Short Cam	N/A	0.515	10
355850	#14 Sargent Mogul	N/A	1.043	10
872612	#15 Yale Replacement Cam	0.308	0.742	10
867450	Horizontal & Vertical Rim Tailpiece kit			
867451	Lazy-motion Rim Tailpiece kit			
868958	Schlage KIK Plug Cap			10
868959	Schlage KIK Plug Cap Spring			100
868960	Schlage KIK Plug Cap Pin			100
804877	Schlage Break-off Tailpiece			10
868654	Corbin New Style Standard-duty Tailpiece			100
868624	Rollpin - Corbin			10
868231	Cylinder Plug Retaining Ring			100
900250	Sargent 6-line, Arrow Tailpiece (short)			
900251	Sargent 6-line, Arrow Tailpiece (long)			
900252	Sargent 6-line, Arrow Tailpiece retaining ring			
900253	Sargent/Arrow Tailpiece (Med.)			
900254	Sargent 11-line T-Zone Tailpiece			
900256	Yale Key-In-Lever Tailpiece			
900257	Yale Key-In-Lever Roll Pin			
867045	Oval Cylinder Tailpiece			50
803169	Oval Cylinder Tailpiece, 505 Lock Function			
867046	Tailpiece Washer			50
867090	Phillips Screws for Cams, Mortise & Oval Tailpiece			100
868138	Slotted Screws for Rim Tailpiece			100
868134	Tail Extension for Rim Cylinder			
867109	Break-off Tailpiece for V/H Rim Cylinder			
868136	Lazy Motion Tailpiece for Rim Cylinder			
867454	Sargent RC Tailpiece Kit (11 Line, 10 Line, & 7 Line Lever)			

## Pin Kits & Tools



Automatic Code Machine  
PS6000A



Positive Stop Code Machine  
PS6000T

### Pin Kits & Tools

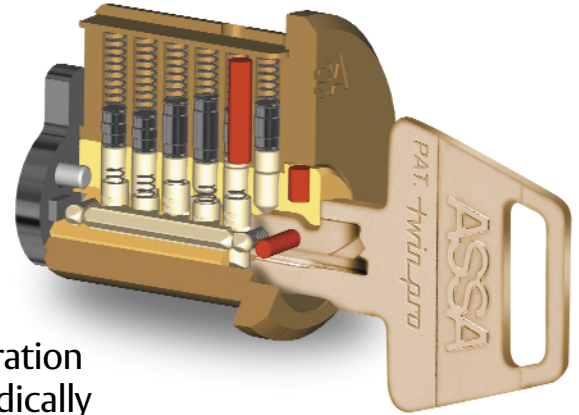
Model No.	Notes	Description
PK-1		Pin Kit No.1 Full-Size Standard Kit for Twin
PK-4		Pin Kit No.4 Mini Pin Kit for Twin
PK-IC		Pin Kit-Interchangeable Core Upgrade
PK-MM		Micro Mini Pin Kit
PK-CAM		PK Cam Lock Upgrade
MPK		Master Pinning Kit Twin & IC
MKP		Master Key Program
MKP2000/XP		Master Key Program 2000/XP
MKSV		ASSA Master Key System Viewer
KWZ-S	*	Key Wizard Key Records Mgmt. Software Single Sight Version
KWZ-N	*	Key Wizard Key Records Mgmt. Software Network Version
KWZ-D		Key Wizard Key Records Mgmt. Software Working Demo
KWZ-I	*	Key Wizard Import File for ASSA System
869018		Twin & V-10 Cutter Wheel for HPC 1200 CM90°/.032"
869017		Twin & V-10 Framon Cutter Wheel
867056		Cutter Wheel for PS-7000R
KXASDC		Depth Cam for KX-1 ASSA
KXASSC		Space Cam for KX-1 ASSA
KXAS01		Cam Set for KX-1
KXAS02		Cam Set Plus Vise
KXAS03		Cam Set Plus Cutter
KXAS04		Cam Set (Cutter Vise)
F2SH050A		ASSA Vise
969020		Twin & V-10 Code Card for HPC 1200CM
360825		ASSA Lock Spray Lubricant
816296		ASSA Lock Spray Cleaner/De-Icer
802631		ASSA Lock Spray Dry Film Lubricant
P872630		ASSA Twin Pro Mortise Cylinder Cutaway
V872630		ASSA Twin V-10 Mortise Cylinder Cutaway
PS-6000T		Positive Stop Code Key Machine
PS-6000A		Automatic Code Machine (Computer required, not supplied)
907200		PK-1 Pin Kit Box Only
907205		PK-IC Pin Kit Box IC Only
907206		MPK Pin Kit Box Only
907207		Micro Mini Pin Kit Box Only
907208		Pin Kit Cam Lock Upgrade Box Only
907009		Clear Deadbolt Mounting Ring
SGTRCTOOL		Shearing Tool for Sargent style Interchangeable Core

\* Key Wizard software is invoiced at Book Net.

## 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. Periodically inspect keys in use and replace any keys that show physical wear.



ASSA cylinders are a mechanical device and like any mechanical device they need regular preventive maintenance. At the time of installation cylinders must be lubricated with ASSA approved 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.

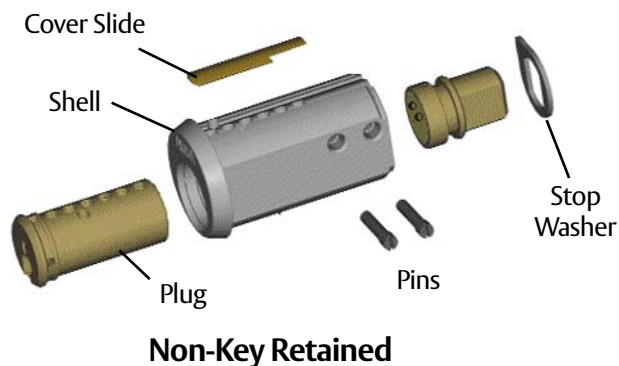
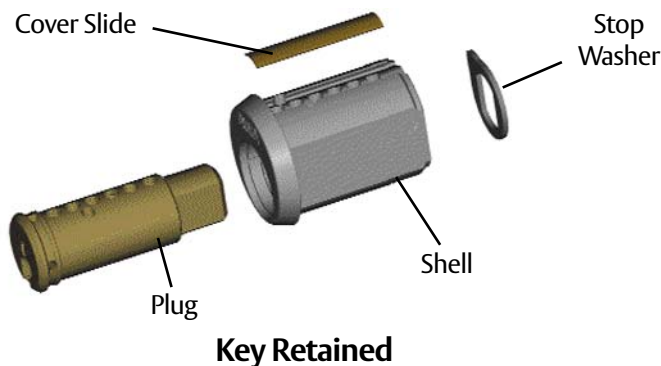
- **Do not use graphite or silicone lubricants. Use only ASSA approved lubricants.**
- **Do not expose ASSA cylinders to chemical wash.**
- **Do not paint any cylinder surfaces.**

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. Let dry or dry with compressed air then re-lubricate with ASSA approved lubricant.

### As part of the ASSA 5-Way Guarantee

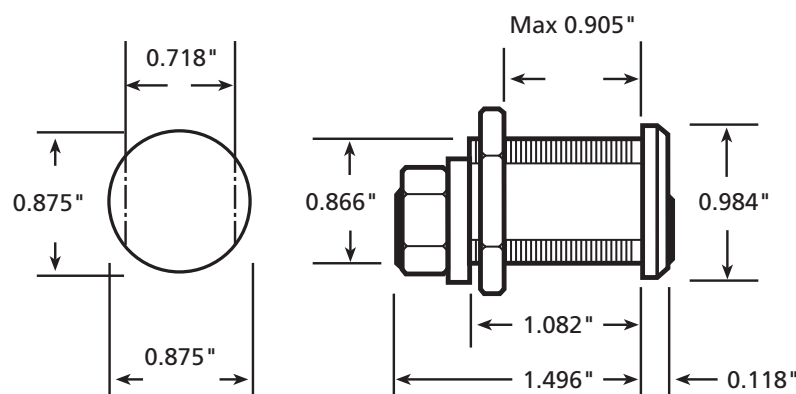
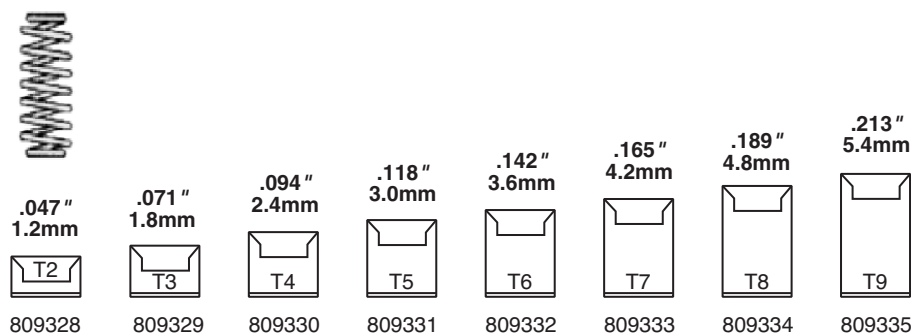
- **ASSA will replace any key that breaks under normal use for life.**
- **ASSA will warranty any ASSA cylinder against manufacture defect for life.**

## Servicing ASSA Cam Locks



ASSA cam locks are serviced with standard Twin bottom and master pins. The tops pins, or drives 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 can not 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
- Chamber spring – 809340



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

## Technical Information

### Security Authorization Procedure

- Locksmith may elect to use the card shown below to register their customers.
- 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 registration card and verify that it matches the signature on the ASSA-312 form.
- Personal identification may also be requested for additional customer protection.

**ASSA**  
High Security Locks

**SIGNATURE REGISTRATION CARD # \_\_\_\_\_**

This card is to be used in conjunction with ASSA<sup>®</sup> 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	OWNERS NAME (Please type or print) _____	1 _____	TYPE OR PRINT NAME
	STREET ADDRESS _____	2 _____	SIGNATURE
	CITY / STATE / ZIP CODE _____	_____	TYPE OR PRINT NAME
	DATE / / _____	_____	SIGNATURE
END USER			

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

DATE	KEYCODE	QTY.	FORM <sup>®</sup>	DATE	KEYCODE	QTY.	FORM <sup>®</sup>

ASSA 312  
7886



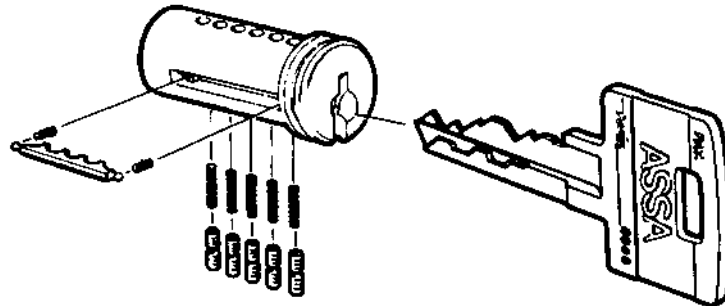
## Technical Information

### ASSA -312 FORM

- The ASSA-312 form may be used to verify customer signatures for after sale 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.

<b>RESTRICTED KEY ORDER FORM USE WITH AUTHORIZATION CARD</b>	<b>ASSA<sup>®</sup></b>									
	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	
	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.					IF YOUR KEY IS PART OF A MASTER KEY SYSTEM, COPY THE NUMBER STAMPED ON THE KEY HERE ➡				
SIGNATURE					DATE					
<div style="display: flex; justify-content: space-between; font-size: small;"> <span>ASSA 312 2805</span> <span>ASSA, INC.</span> <span>Copyright © 1989 ASSA, INC.</span> </div>										

## Technical Information



### 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.

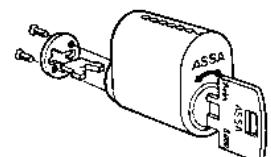
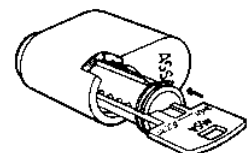
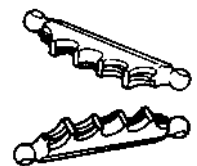
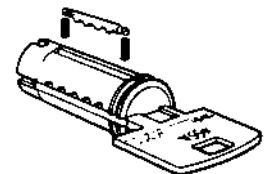
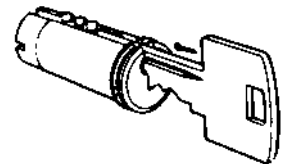
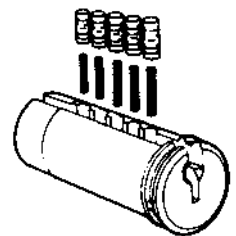
**Step Four.** Lay the sidebar in the slot so that the fences correspond to the opening gates in the side pins. It should now be possible to press the sidebar down in its slot so that it is flush with the outer face of the cylinder plug.

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

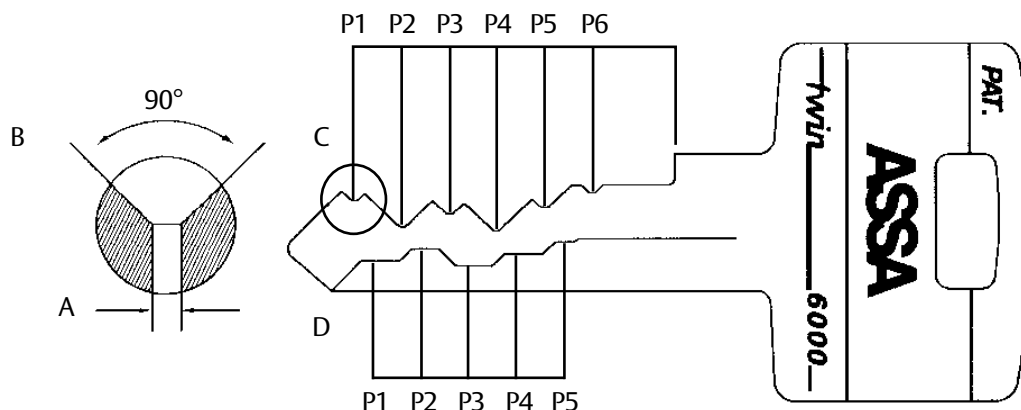
**Step Five.** Place the cylinder plug in the cylinder house. If the sidebar is fitted correctly, the cylinder plug can now be turned within the shell. Hold the cylinder plug in place when withdrawing the key.

**Step Six.** Fit the tailpiece and secure. Rim fitting and older cylinders require the tailpiece and washer, then secure.

Note: Plug diameter is .510".



## Technical Information



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 90° cutting angle and a 0.8mm (0.032") wide flat base.

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

Maximum adjacent cut of 5. Example: 1-6 cut.

acceptable, NOT 1-7, 8, or 9.

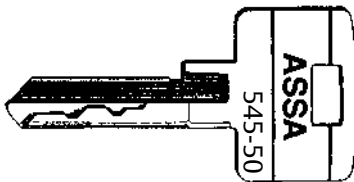
Depths: Key Combinations		
Dormal depths for key combinations		
Depths:	mm	Inch
N0. 1	4.03	0.1587
N0. 2	4.63	0.1823
N0. 3	5.23	0.2059
N0. 4	5.83	0.2295
N0. 5	6.43	0.2531
N0. 6	7.03	0.2768
N0. 7	7.63	0.3004
N0. 8	8.23	0.3240
N0. 9	8.83	0.3476
Measure from bottom of key blade to bottom cut		
Tolerance	+ 0.00 - 0.4mm	
	+0.00" - .0016"	

## Technical Information

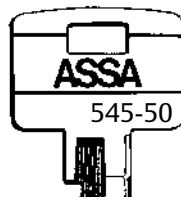
### Ordering

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

A. Sidebar Code is cut at ASSA Factory. Key blanks are provided as shown.

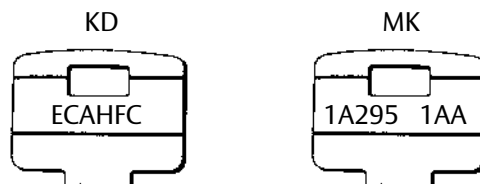


B. Sidebar code/profile can be identified on key bow. Example 545-50



### Key Stamping

All new cut keys should be stamped as original or in accordance with information from Master Key Records. Stamping procedures are as follows.



### Key Cutting

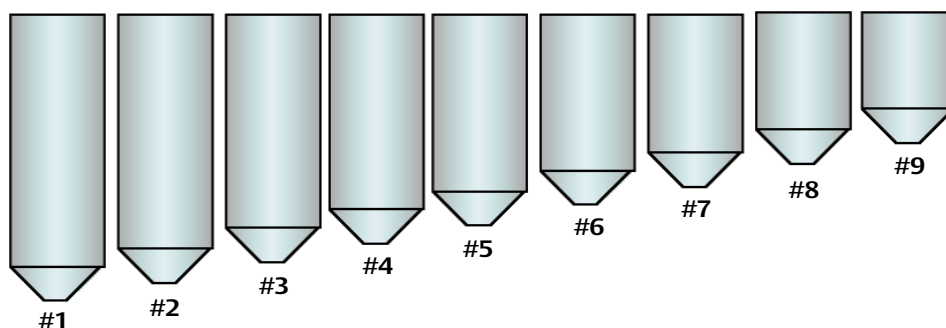
Key combination can be cut on most code machines and duplicating machines. Manual duplicating machines historically, produce better duplicate keys than automated machines. The Twin 6000 key is a hefty quality key. ASSA recommends quality cutters. ASSA has cutters and code cards available for the HPC 1200 CM and Code Max code machine. As well as cutters and vice and cams for Framon KX1 and automated code machines.

	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

## Technical Information

### ASSA Twin Series Pinning

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

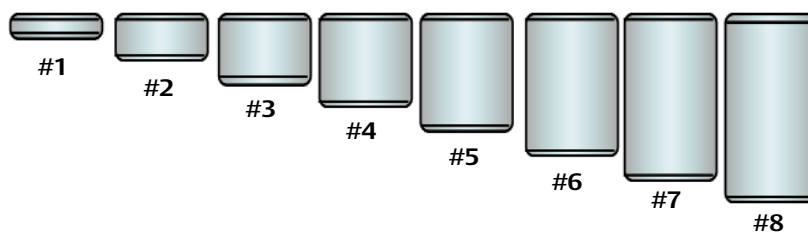


**Bottom Pin Part Numbers & Lengths**

#1 867078	0.3503"	#4 867081	0.2795"	#7 867084	0.2086"
#2 867079	0.3267"	#5 867082	0.2559"	#8 867085	0.1850"
#3 867080	0.3031"	#6 867083	0.2322"	#9 867086	0.1614"

Pins for ASSA Twin 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**

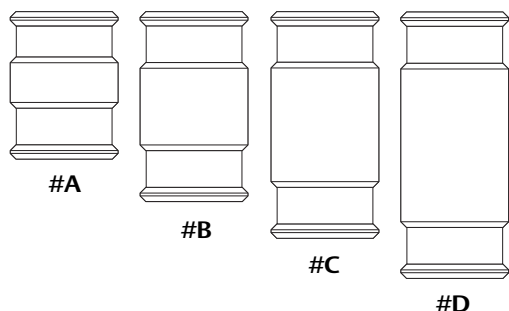


#1 867070	0.0236"	#5 867074	0.1181"
#2 867071	0.0472"	#6 867075	0.1417"
#3 867072	0.0708"	#7 867076	0.1652"
#4 867073	0.0944"	#8 867077	0.1889"

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.

## Technical Information



### 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

KIK & KIL cylinders measuring 1.020" in the CH dimension listed in the product section previous to this section that will use a modified pin stack. This is done by calculating the required top pin and then using one size smaller in the cylinder.

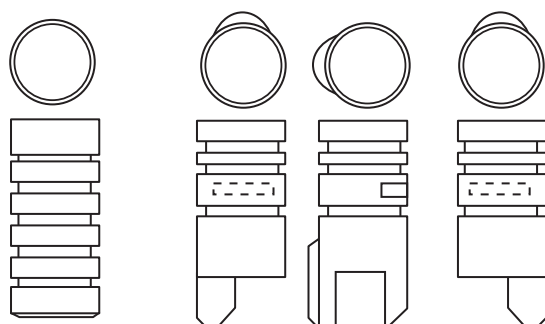
i.e. using a #A top pin instead of a #B as in the below example.

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.

When using a #4 bottom pin, a #B top (driver) pin 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.

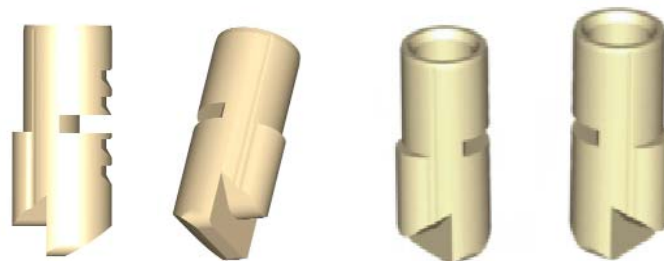
### Top Pin Part Numbers & Uses

#A 867066	#1 & #2	#C 867068	#5 & #6
#B 867067	#3 & #4	#D 867069	#7, #8 & #9



Twin 6000 &  
Twin Exclusive  
Side Pin

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



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

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

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

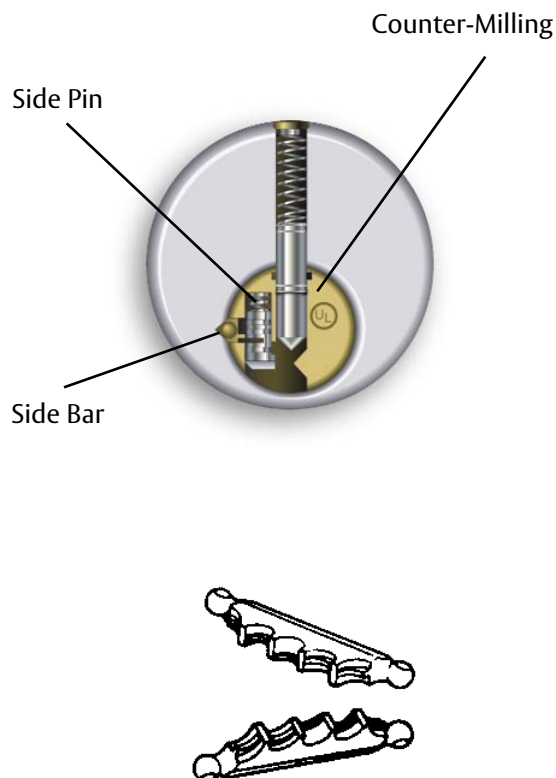
Twin series side pins are lifted by the side cut on the key blank to a proper height to match the fence pattern on the geographically controlled side bar.

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 new side pin is design is lifted at the back of the pin rather than the bottom surface.

Twin Maximum side pins are available in left and right hand offering the flexibility of multiplexing similar to V-10. The ASSA Twin Maximum series cylinder is the mechanical platform that is integrated by C4 CLIQ electromechanical keys and cylinders.

## Technical Information



### Side Bar Operation

There are five side pins in every ASSA Twin cylinder. In the Twin 6000 and Twin Exclusive, there is only the one type of side pin and in the Twin V-10 there are left hand and right hand side pins. ASSA Twin Pro has yet another single type of side pin. The actual side code combination is machined into the side bar itself and again on the side of the Twin Series key.

The purpose of the side pins is to compare the code milled into the side of the key with the code milled into the sidebar. If they match, then the sidebar operation is unlocked. With five depths in each position and five positions on each sidebar, there are 3,125 different side codes possible with 2,805 available. ASSA Twin sidecodes 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 tight key control while the technicians have total control of the keying and pinning.

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

Note: Plug diameter is .510".





## Technical Information

### 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

<b>TMK</b>	<b>2</b>	<b>5</b>	<b>8</b>	<b>3</b>	<b>6</b>	<b>9</b>
	4	7	0	5	8	1
<b>K</b>	6	9	2	7	0	3
<b>B</b>	8	1	4	9	2	5
<b>A</b>	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

<b>TMK</b>	1	2	6	9	5	8
	<del>2</del>	<del>3</del>	<del>7</del>	<del>1</del>	<del>6</del>	<del>9</del>
	3	4	8	2	7	1
<b>K</b>	4	5	9	3	8	2
<b>B</b>	5	6	1	4	9	3
<b>A</b>	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.

## Technical Information

### 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 smallest 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

## Technical Information

### ASSA Interchangeable & Yale Removable Core

With the discontinuation of the ASSA removable core (RC) product we have introduced a new interchangeable core (IC) product which may be mounted in the same figure eight housing as the old product. The new IC 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 IC 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 new IC 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 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

$$\begin{aligned} BP &= \text{MAX} (CK/MK) \\ MP &= \text{ABS} (CK-MK) \\ TP &= C + 1 \\ BUP &= 20 - \{TP + [10 - (BP-MP)]\} \end{aligned}$$

#### Non-Master Keyed

$$\begin{aligned} BP &= CK \\ MP &= 0 \\ TP &= C + 1 \\ BUP &= 20 - [TP + (10-CK)] \end{aligned}$$

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 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 IC 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:

<u>CTRL</u>	<u>216499</u>
AA	495799
1AA	642799

## Technical Information

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

### Pin Chamber 1

CTRL Biting 2 + 1 = 3 TP

### Pin Chamber 2

CTRL Biting 1 + 1 = 2 TP

### Pin Chamber 3

CTRL Biting 6 + 1 = 7 TP

### Pin Chamber 4

CTRL Biting 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

$$BUP = 20 - \{ 3 + [10 - (6 - 2)] \}$$

$$BUP = 20 - \{ 3 + [10 - 4] \}$$

$$BUP = 20 - \{ 3 + 6 \}$$

$$BUP = 20 - 9$$

$$BUP = 11$$

### Pin Chamber 2

$$BUP = 20 - \{ 2 + [10 - (9 - 5)] \}$$

$$BUP = 20 - \{ 2 + [10 - 4] \}$$

$$BUP = 20 - \{ 2 + 6 \}$$

$$BUP = 20 - 8$$

$$BUP = 12$$

### Pin Chamber 3

$$BUP = 20 - \{ 7 + [10 - (5 - 3)] \}$$

$$BUP = 20 - \{ 7 + [10 - 2] \}$$

$$BUP = 20 - \{ 7 + 8 \}$$

$$BUP = 20 - 15$$

$$BUP = 5$$

### Pin Chamber 4

$$BUP = 20 - \{ 5 + [10 - (7 - 0)] \}$$

$$BUP = 20 - \{ 5 + [10 - 7] \}$$

$$BUP = 20 - \{ 5 + 3 \}$$

$$BUP = 20 - 8$$

$$BUP = 12$$

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

<b>TP</b>	<b>3</b>	<b>2</b>	<b>7</b>	<b>5</b>	<b>D</b>	<b>D</b>
<b>BUP</b>	<b>11</b>	<b>12</b>	<b>5</b>	<b>12</b>	-	-
<b>MP</b>	<b>2</b>	<b>5</b>	<b>3</b>	-	-	-
<b>BP</b>	<b>6</b>	<b>9</b>	<b>5</b>	<b>7</b>	<b>9</b>	<b>9</b>

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.

## Technical Information

### ASSA Sargent Removable Core

Follow the same formula and rules as specified for the ASSA interchangeable & Yale removable core only change the stack to 19.

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

<u>CTRL</u>	<u>216969</u>
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.

## Technical Information

### 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 and hollowed top pin 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.

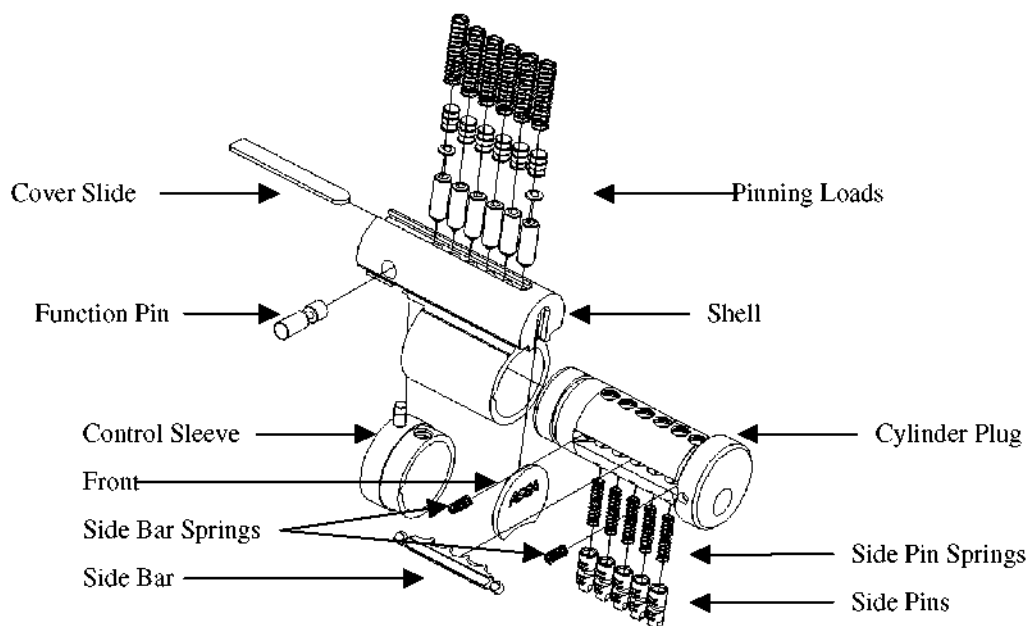
Calculating the loads is as follows:

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

$$BUP = 2 + (\text{Operating Cut} - \text{CTRL Cut})$$



## Technical Information

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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