Product Catalog & Technical Manual

ASSA®

ASSA ABLOY

ASSA ABLOY, the global leader in door opening solutions

ASSA
ASSA ABLOY

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*Product Catalog
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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 High Security cylinders.

In 1984 ASSA entered the North American market by establishing ASSA, Inc. in Naperville, IL as a marketing arm of ASSA AB in Sweden. ASSA, Inc. was a full line manufacturer of mortise locks, padlocks, auxiliary locks, and high security key systems. Starting in 1992, ASSA, Inc. shifted its sales direction from independent dealer sales to institutional, industrial, and government sales and began focusing its product offering on the retrofit and replacement high security cylinder segment. With the introduction of its new master keying capabilities ASSA became the logical choice for institutions around the United States and Canada offering patent protected, unique geographically exclusive keyways for ASSA authorized security centers and end users.

In 1994 ASSA, Inc. became part of the ASSA ABLOY Group which was formed through the merger of ASSA AB in Sweden and Abloy Oy in Finland. Headquartered in Stockholm, ASSA ABLOY has grown from a regional company into an international group with around 43,000 employees, sales of about $7 billion and operations in over 70 countries. ASSA ABLOY offers a more complete range of door opening solutions than any other company on the market and remains dedicated to satisfying end-user needs for security, safety and convenience. In the fast-growing electromechanical security segment, the Group has a leading position in areas such as access control, identification technology, entrance automation and hotel security.

By 1996, ASSA had cemented several partnerships with detention equipment manufacturers gaining a significant presence in the corrections market both in North and South America. In 2000 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.

In 2001, ASSA launched the ASSA CLIQ, a technological platform for intelligent cylinders – the first joint development project in ASSA ABLOY. In the same year, ASSA ABLOY participates in the Volvo Ocean Race, dramatically increasing awareness of the company among millions worldwide.

Great advancements in electronics are a common theme in the first decade of the new century. Released in 2013, the ASSA CLIQ Remote system was developed with a focus on the customer's remote security, administration and bottom line. The innovative ASSA CLIQ Remote is yet another example of why ASSA continues to be the world's leader in high security and patented key control solutions.

High Security Key Control Programs

ASSA makes profile and sidebar combinations (keyway) available to locksmith/dealers, end users, wholesale distributors, and original equipment manufacturers (OEM) on a geographically exclusive basis. These programs are designed to meet the security requirements of virtually any customer by allowing them to essentially "own" their own keyway in a contractually defined geographic territory.

Locksmith/Dealer Program

The locksmith/dealer contracts with a wholesale distributor to have exclusive rights to sell the keyway in the defined territory. The locksmith must purchase all restricted components (key blanks, cut keys, sidebars, complete and sub-assembled cylinders and factory generated key charts) from the distributor named on the written agreement.

Types of Exclusivity

Locally Exclusive – Distributor establishes multiple locksmith/dealers selling the same keyway in a metropolitan area or state/province.

Regionally Exclusive – Distributor establishes a sole locksmith/dealer for a large territory such as entire or multiple states/provinces.

Nationally Exclusive – Distributor establishes a sole locksmith/dealer for an entire country.

End User Program

The institutional End User contracts with ASSA, Inc. to have an exclusive keyway established in a defined territory for its use only. The End User can purchase restricted products (key blanks, cut keys, sidebars, complete and sub-assembled cylinders and factory generated key charts) from any authorized distributor with written authorization from an authorized signatory specified in the written agreement.

Types of Exclusivity

Regionally Exclusive – ASSA establishes an End User keyway for a large territory such as entire or multiple states/provinces.

Nationally Exclusive – ASSA establishes an End User keyway for an entire country.

Continentally/Global Exclusive – ASSA establishes an End User keyway for an entire continent or for global exclusivity.

Wholesale Distributor Program

The Wholesale Distributor contracts with ASSA to have exclusive rights to sell a specified "house" keyway in the defined territory. Distributors are allowed to sell this keyway to any customer as they see fit within the territory specified in the written agreement. The Distributor is also allowed to stock other keyways as necessary to service their locksmith/dealer base.

Types of Exclusivity

Regionally Exclusive – ASSA establishes a Distributor keyway for a large territory such as entire or multiple states/provinces.

Nationally Exclusive – ASSA establishes a Distributor keyway for an entire country.

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Original Equipment Manufacturer (OEM) Program

The OEM contracts with ASSA to have exclusive rights to distribute a specified keyway through installation of the restricted products (key blanks, cut keys, sidebars, complete and sub-assembled cylinders and factory generated key charts) in their product as a component part or as a supplemental product for sale.

Types of Exclusivity

Regionally Exclusive – ASSA establishes an OEM keyway for a large territory such as entire or multiple states/provinces.

Nationally Exclusive – ASSA establishes an OEM keyway for an entire country.

Continentally/Global Exclusive – ASSA establishes an OEM keyway for an entire continent or for global exclusivity.

Keyway Information

Each key control program utilizes a standard cylinder plug profile (broaching). Various sidebar codes are combined with the profile to create different unique keyways. Twin 6000 key blanks produced after August 1988 are stamped with the complete keyway code including both side code and profile, e.g. 507-51. All other series (except C4/CLIQ and CLIQ Remote) will typically only include the side code designation. Please include side code and profile (if applicable) when ordering key blanks and cylinders, except SNS cylinders (See Cylinder form below).

Cylinder Form

ASSA High Security locks are available in three different forms. When ordering cylinders, please be sure to indicate Cylinder Form.

COMP (Complete) – Fully keyed cylinder. Master keyed, keyed different, and keyed alike items include two cut keys per cylinder.

SUB (Sub-assembled) – Uncombinated cylinder includes sidebar mechanism, but no tumbler pins, springs or key blanks. Pin chamber closure strip, plug and screws provided.

SNS (Sub-assembled, No sidebar) – Uncombinated cylinder without sidebar and sidebar springs. Includes side pins, side pin springs, standard tailpiece items and pin chamber closure strip.

Note: The SNS option is not available for 600, Twin Low, and Maximum+ Restricted Series cylinders.

Master Keying

ASSA locks and cylinders may be master keyed to meet virtually any requirement. Contact ASSA Key Records Department to discuss special needs.

Finishes

Standard finishes (shown right). Cylinder plugs and LFIC shells are only available in 626/US26D Satin Chrome and 606/US4 Satin Brass. Antique brass (609) is available for deadbolts only.

Note: See specific product sections of catalog to view available finish options for that product.

ASSA BHMA Symbol	Equivalent U.S. Symbol	Finish Description
625	US 26	Bright Chrome
626	US 26D	Satin Chrome
605	US 3	Bright Brass
606	US 4	Satin Brass
609	US 5	Antique Brass
624	US 10B	Dark Oxidized
612	US 10	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 and only one direction (clockwise or counter-clockwise) by a subordinate key stopping at a pre-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 noted by symbol: † indicating the model number is available in special functions.

How to order

Example	Model No.	Finish	Profile – Side Bar
Specify	E8551CW-14	626	851 – 888 (For Directional Cylinders Clockwise Rotation)
	E8551CC-14	626	851 – 888 (For Directional Cylinders Counter Clockwise Rotation)
	E8551CL-14	626	851 – 888 (For Limited Rotation Cylinders Counter Clockwise Rotation)
	E8551WL-14	626	851 – 888 (For Limited Rotation Cylinders Clockwise Rotation)

Red Core

ASSA provides Red temporary construction cores (red cores are always 51 Profile) for its interchangeable core cylinders upon request. Red cores are invoiced at list price noted in current price list and upon return to ASSA, credit will be issued for the full invoiced amount less a handling fee (See current price list). 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.

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. To order red core separately, specify 70600ICR. Specify change keys as TWIN-KD-RED and control keys as TWIN-CT-RED.

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ASSA High Security Key Systems

Twin 6000 Classic – The Twin 6000 Series, released in 1981, was ASSA's first key system to employ patented dual independent locking mechanisms providing optimum pick resistance and key control. Marketed to both the locksmith and end user markets, the Twin 6000 allowed the user to "own" their own private key section. The Twin 6000 remains immensely popular with lock professionals for its ease of service, very large master key system yield, and the rugged durability of the key. The Twin 6000 was the first ASSA key system to earn the Underwriter's Laboratory 437 rating, a series of tests designed to measure a cylinder's resistance to picking, pulling, drilling, and forcing attacks.

Twin V-10 – With the introduction of the Twin V-10 system in 1996, ASSA brought to market a new patented key and cylinder design that helped to eliminate unauthorized duplicate keys and maintain a key control system unmatched in the industry. The very narrow keyway was designed to stop picking tools from easily entering the cylinder. Multiple pitched side pins allowed the master key system yield to be expanded dramatically thus offering the possibility of having more than a million locks keyed differently operated by a single master key.

Twin Exclusive – 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.

Twin Pro – Introduced to the North American market in 2003, the Twin Pro high security key control system was developed for large institutional end users and ASSA Certified Service Centers. The Twin Pro is not stocked by our traditional wholesale distributors and is shipped directly from our factory to the end user or service center thus eliminating the possibility of the system being compromised. ASSA offers training for facilities with in-house locksmiths to service these locks or they can be serviced by an ASSA Certified Service Center.

C4/CLIQ – The ASSA C4/CLIQ electro-mechanical key system was released to the North American market in 2004. Concept 4 (C4) is an intelligent lock system that combines the best of mechanical key and cylinder design and electronics in the smartest possible manner. The CLIQ™ technology was developed through the collaboration of several ASSA ABLOY companies in Europe and has blossomed into the most innovative electro-mechanical key and cylinder system on the market today. The unique design provides a high security key and cylinder combination with an added electronic access control feature that requires no power source of any kind at the door opening. Power is supplied by a standard lithium battery installed in the key thus eliminating the need for hard wiring at the opening. Every time a key is inserted into a cylinder the transaction and its result are recorded with a time and date stamp and stored in both the key and cylinder enabling the user to monitor access to any area including those for which supplying power to the opening would be impractical or impossible.

Twin Maximum – The Twin Maximum product line introduced in 2005 was set up to interface with the ASSA C4/CLIQ system. It is the mechanical keyway utilized by the C4 and allows the possibility of combining mechanical keys and cylinders with the CLIQ™ technology in the same master key system. The Twin Maximum uses multiple pitched side pins like the Twin V-10 giving the potential for extremely large master key systems.

Maximum+ – The Maximum+ product line, launched in 2013, features the most sophisticated, state of the art mechanical locking technology on the market today. Utilizing our trademarked Security Ridge™ on the key, the Maximum+ system offers a level of patented protection unmatched by industry standards. The Maximum+ carries a utility patent that extends until 2029 and is backward compatible with our Twin Maximum product enabling one key to operate both cylinders. All Maximum+ products can be fully integrated with the ASSA CLIQ electromechanical access control system ensuring full key holder accountability for virtually any opening. The ASSA Maximum+ and CLIQ combination is designed to provide maximum flexibility while maintaining the highest standards of physical security and access control.

Maximum+ Restricted – A patent restricted key system providing legal protection over unauthorized key duplication to 2029. This system is offered for interior use because it does not have the added cost of UL 437 physical protections of the Maximum+ system. Maximum+ Restricted provides a cost competitive solution where the risk of physical attack on cylinders is relatively low.

CLIQ Remote – Released in 2013, the ASSA CLIQ Remote system was developed with a focus on the customer's remote security, administration and bottom line. CLIQ Remote is aimed at customers who need to change authorizations relatively often, but need mechanical security. The system is designed with the advantages of both access control and mechanical key systems, which makes it suitable for geographically scattered businesses. CLIQ Remote makes it possible to give one person — regardless of location, anywhere in the world — remote access to a building. It also offers the option to decide the time of day an issued key will start and stop working, as well as in which doors. All ASSA CLIQ Remote electromechanical keys systems can be fully integrated with both Maximum Plus and Twin Maximum mechanical systems for maximum flexibility.
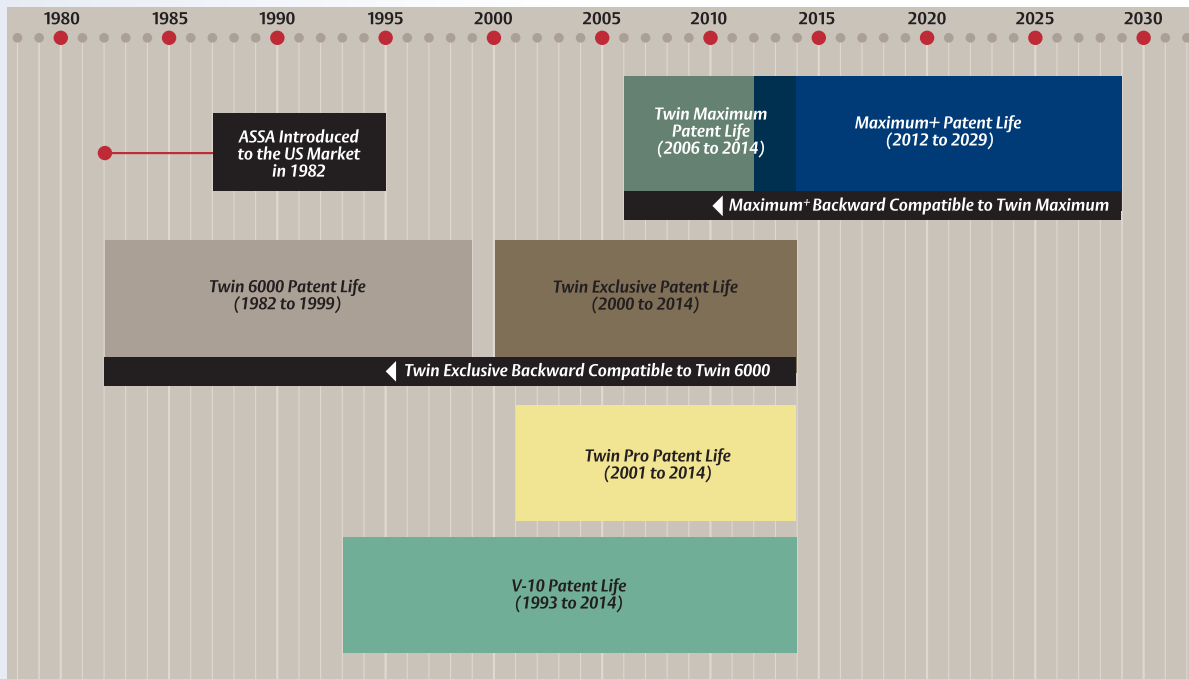
ASSA Medium Security Key Systems

600 Series – The ASSA 600 Series incorporates many of the security and performance features of the High Security systems but does not have a sidebar or side pins. Keys are made of high quality nickel silver and cylinders provide a superior level of pick resistance. The 600 Series is a stand alone key system and is available in five profiles (keyways).

Twin Low – The Twin Low product line of cylinders is available in some of the Twin 6000 Classic profiles but without the restricted sidebar component. This product offers a lower cost alternative for interior and less sensitive openings affording the key holder the convenience of operating 3 levels of security (Twin Exclusive, Twin 6000 Classic, and Twin Low) with the same key.

500/700 Series – One of the oldest key systems still supported by ASSA, the 500/700 Series product was developed in the early 20th century. The 500 Series key uses a 5 pin tumbler system while the 700 Series uses 7 pins. ASSA, Inc. no longer supports cylinder or cylinder parts sales for this product series however key blanks in all existing profiles are available by special order.

Timeline of ASSA keying systems

1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030	

ASSA Introduced to the US Market in 1982

Twin Maximum Patent Life (2006 to 2014)

Maximum+ Patent Life (2012 to 2029)

Maximum⁺ Backward Compatible to Twin Maximum

Twin 6000 Patent Life (1982 to 1999)

Twin Exclusive Patent Life (2000 to 2014)

Twin Exclusive Backward Compatible to Twin 6000

Twin Pro Patent Life (2001 to 2014)

V-10 Patent Life (1993 to 2014)

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Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

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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.

         b. Material: Nickel silver alloy.

         c. 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.

![ASSA ABLOY logo]

The ASSA C4 CLIQ system is fully compatible with the Maximum+ and Twin Maximum mechanical key systems allowing the flexibility and convenience of one key operating both electronic and mechanical locks in the same master key system.

The electronic programming of the keys gives authorization to individuals while providing the possibility of instantly blocking lost or stolen keys in locks electronically. Power is supplied by a standard lithium battery installed in the key thus eliminating the need for hard wiring at the opening.

Every time a key is inserted into a cylinder the transaction and its result are recorded with a time and date stamp and stored in both the key and cylinder. All keys feature a quartz clock which can restrict access to openings for certain days or times. Using a software program called ASSA Performer the user is easily able to make changes in locks and keys with special programming keys. Performer can be deployed on a single computer or on a network for use in a client/server application. The ASSA CLIQ technology utilizes high security encryption for transferring data that complies with DES protocol.

Benefits:

- Installation Without Wiring at the Opening
- Audit Trail with Time and Date Stamp
- Extremely Large Master Key Systems
- DES Encrypted
- Cost Effectiveness
- Wide Range of Retrofit Cylinder Shapes
- Same Key Operates both Mechanical and Electronic Lock

Functionality:

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

Warranty:

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

Certification:

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

Technical Information:

- Power Supply is Provided by the Key
- Data Transfer 64 Bit and Higher
- Water Resistant
- Sealed Electronics
- No Wires

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The ASSA CLIQ Remote takes the C4 CLIQ concept to a new level by making it possible to give one person, regardless of location, anywhere in the world, the ability to remotely grant or deny access to an opening for a specific period, day or time.

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

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

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

Benefits:
- Installation Without Wiring at the Opening
- Access Rights Updated Remotely
- User Key Revalidation
- Multiple Time Schedules
- Audit Trail with Time and Date Stamp
- Extreme Master Keying Capacity
- Cost Effectiveness
- Wide Range of Retrofit Cylinder Shapes

- Same Key Operates both Mechanical and Electronic Lock
- DES Encrypted

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

Warranty:
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ASSA CLIQ Remote™ / Keys & Accessories

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

CLIQ Remote™ Programming Device

CLIQ Remote™ Remote Wall Programming Device

CLIQ Remote™ Remote Mobile Programming Device

ASSA CLIQ Remote™

Item No.	Description
CLIQ-KDR	CLIQ Remote User Key
CLIQ-KDRP	CLIQ Remote User Key with Proximity Tag
CLIQ-RMCK	CLIQ Remote Master C-Key
CLIQ-RCK	CLIQ Remote C-Key
CLIQ-PD	CLIQ Programming Device
CLIQ-RPD	CLIQ Remote Wall Programming Device
CLIQ-MPD	CLIQ Remote Mobile Programming Device
CLIQ-VRPD	CLIQ Remote Outdoor/Vandal Resistant Programming Device
CLIQ-REND	CLIQ Remote End User Kit
CLIQ-RDEMO	CLIQ Remote Demo Kit
CLIQ-TRAINING	Off-site Factory Training

ASSA CLIQ Remote™ Web Manager Features

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

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C4 CLIQ
Cut Key

C4 CLIQ
C-Key

C4 CLIQ
Master
C-Key

C4 CLIQ
Contact
Key

ASSA C4 CLIQ™ Keys

Item No.	Description
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

Cylinder Audit Trail Chart

Key Audit Chart

CLIQ Program Device

C4 CLIQ Software

ASSA C4 CLIQ™ Programming Unit & Software

Item No.	Description
CLIQ-END	Program Device with Single Site Performer Software – Manages CLIQ System
CLIQ-END-NT	Program Device with Network Performer Software – Manages CLIQ System
CLIQ-ESDK	Executive Sales Demo Kit
CLIQ-DEA	Program Device with Single Site Performer Software – Manages Multiple CLIQ Systems
CLIQ-DEA-NT	Program Device with Network Performer Software – Manages Multiple CLIQ Systems
CLIQ-PD	CLIQ Programming Device
CLIQ-NT-LIC	License Upgrade from Single Site to Network Installation
CLIQ-TRAINING	Off Site Factory Training
CLIQ-SDK	Sales Demo Kit

ASSA®

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

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

Benefits:

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

Certification:

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

Warranty:

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

Technical Information:

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

Special stamping and custom coining available

![ASSA ASSA ABLOY logo]

| Maximum+ | Twin Maximum | Twin 6000 & Twin Exclusive | Twin V-10 | Twin Pro |

ASSA Cut Keys

Item No.	Description
MAXP-KD	Maximum+ Cut Keys KD/KA
MAXP-MK	Maximum+ Cut Keys, In a Master Key System
MAXP-CTRL	Maximum+ Control Key
TMAX-KD	Twin Maximum Cut Keys KD/KA (Replaced by part MAXP-KD in 2014)
TMAX-MK	Twin Maximum Cut Keys, In a Master Key System (Replaced by part MAXP-MK in 2014)
TMAX-CTRL	Twin Maximum Control Key (Replaced by part MAXP-CTRL in 2014)
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
TWIN-CTRL	Twin Exclusive/Twin 6000 Control Key
V-10-KD	Twin V-10 Cut Keys KD/KA
V-10-MK	Twin V-10 Cut Keys, In a Master Key System
V-10-CTRL	Twin V-10 Control Key
TPRO-KD	Twin Pro Cut Keys KD/KA
TPRO-MK	Twin Pro Cut Keys, In a Master Key System
TPRO-CTRL	Twin Pro Control Key

ASSA Key Blanks

Item No.	Description
323330	Maximum+ Key Blank Qty. 100/box (Specify Sidebar Code)
359644	Twin Maximum Key Blanks Qty. 100/box (Specify Sidebar Code), (Replaced by part 323330 in 2014)
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
816313	Twin Pro Keyblanks/Sidebar code (specify sidebar code) Qty. 100/box

ASSA Coined Key Blanks

Item No.	Description
IDC	Initial die charge
868996	500 minimum key blank quantity each order (Specify profile and side code)

UK　　UM　　PK　　PL　　UL

868062
600 Series

ASSA 600 Series Cut Keys & Key Blanks

Item No.	Description
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)

ASSA 500 Series Key Blanks

Item No.	Description
462000	Key blanks/ specify profile

ASSA 700 Series Key Blanks

Item No.	Description
462001	Key blanks/ specify profile

Master Key Order Procedure:

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

Excel File Format:

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

Column	Content	Character Limit
1	Item #	4
2	Cyl. Quan.	4
3	Cyl/Cam PN	12
4	Finish	5
5	Column Unused	Column Unused
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)
11	Column Unused	Column Unused
12	Column Unused	Column Unused
13	Column Unused	Column Unused
14	Cross Keying Info	20

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

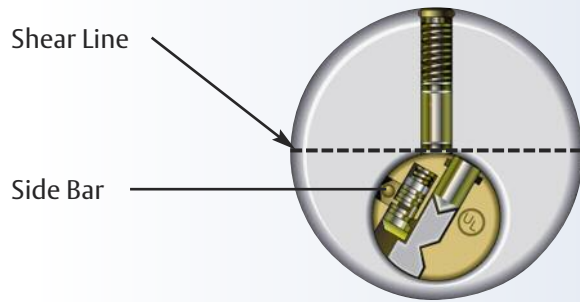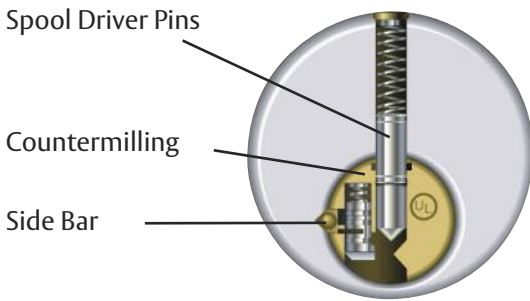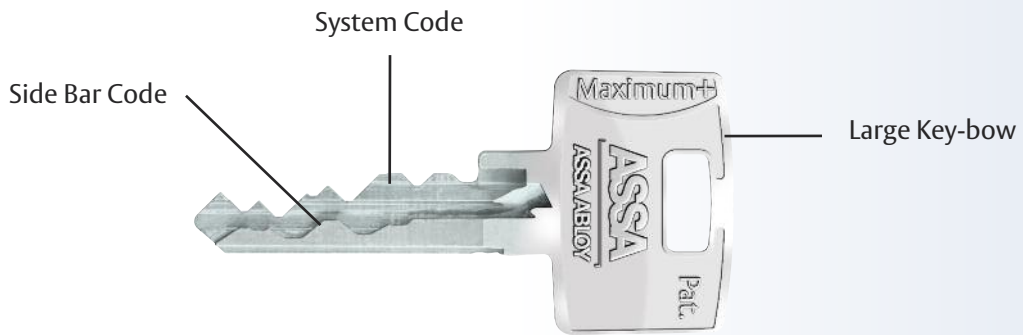KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

Excel File Format *(continued)*:

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

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

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

The template for the order log file that must be submitted with all factory master keyed orders can be found on our web site at **http://www.assalock.com/en/site/assalock_com/Resources**.

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

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

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

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

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

Factory Keyed Cylinders:

Cylinders pinned by the factory are supplied "Keyed Different" or if so specified as one of the following options:
- Master Keyed (Bittings provided at No Charge when requested with the order)
- Keyed Alike/Keyed Different
- Single Keyed Different (Part of MK System)

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

![ASSA ASSA ABLOY logo]

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

Benefits:

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

Certification:

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

Warranty:

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

Technical Information:

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

Finishes:

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

Note: Plug finishes available in 626 and 606 only.

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

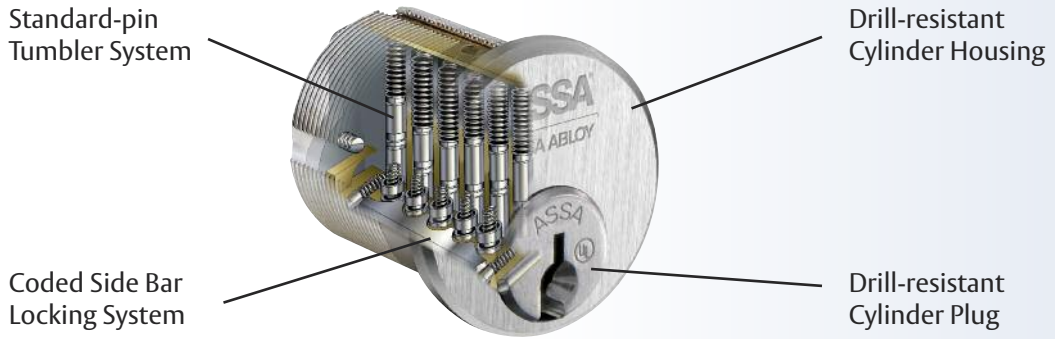IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

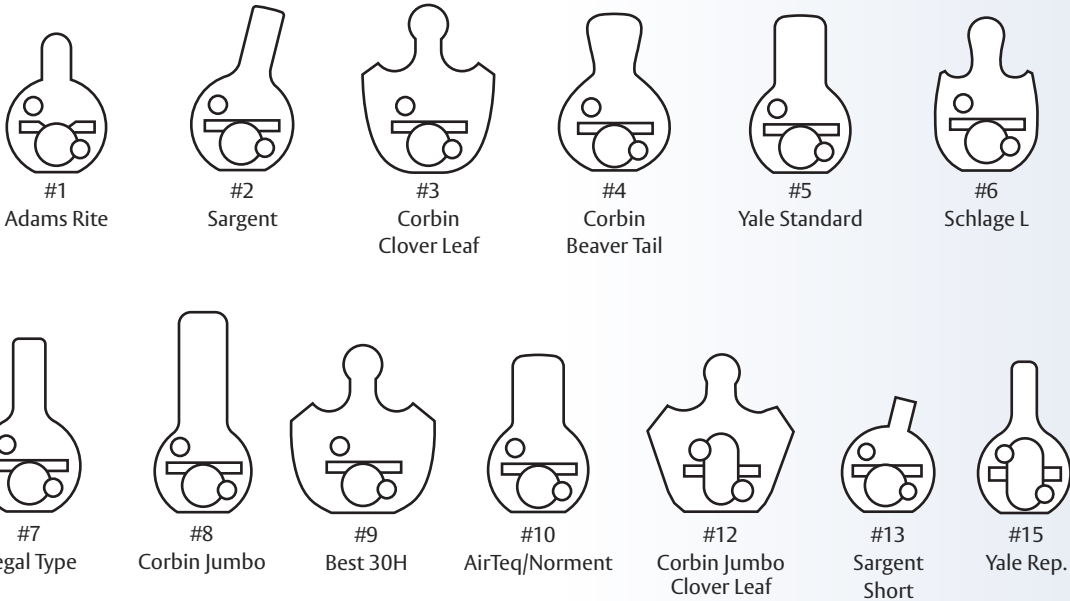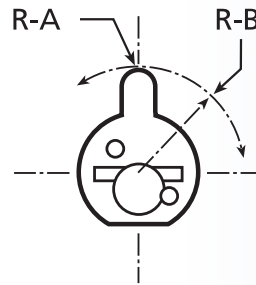Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

General
Info.

Electronic
Access
Control

Keys &
Keying

Mortise
Cyls.

Rim
Cyls.

Mogul
Cyls.

IC Core
Cyls.

KIK/KIL
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Auxiliary
Locks

Padlocks

Profile
Cyls.

Pin Kits
Tools &
Accessories

Care &
Maint.

Technical
Specs.

ASSA®

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Mortise Cylinders Cut-Away View

Standard-pin
Tumbler System

Coded Side Bar
Locking System

Drill-resistant
Cylinder Housing

Drill-resistant
Cylinder Plug

System Code

Side Bar Code

Large Key-bow

Spool Driver Pins

Countermilling

Side Bar

Shear Line

Side Bar

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

Cylinder Springs
Top Pins
Cover Strip
Cam
Sidebar Springs
Sidebar

Master Pins
Bottom Pins
Cylinder Housing
Cylinder Plug
Side Pins
Side Pin Spring

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

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KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

Mortise Cylinders Specifications

Mortise Cylinder Key:

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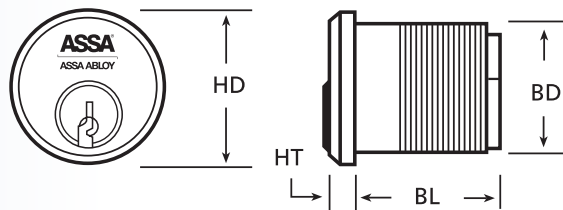
Description	HD Head Diameter	HT Head Thickness	BL Body Length w/Cam	BD Body Diameter
1-1/8" Mortise Cylinders			1.125"	
1-1/4" Mortise Cylinders			1.25"	
1-3/8" Mortise Cylinders			1.375"	
1-1/2" Mortise Cylinders	1.366"	0.138"	1.5"	1.157"
1-5/8" Mortise Cylinders			1.625"	
1-3/4" Mortise Cylinders	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

ASSA
ASSA ABLOY

Available Cams for Mortise Locks

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

R-A   R-B

| #1 | #2 | #3 | #4 | #5 | #6 |
| Adams Rite | Sargent | Corbin Clover Leaf | Corbin Beaver Tail | Yale Standard | Schlage L |

| #7 | #8 | #9 | #10 | #12 | #13 | #15 |
| Segal Type | Corbin Jumbo | Best 30H | AirTeq/Norment | Corbin Jumbo Clover Leaf | Sargent Short | Yale Rep. |

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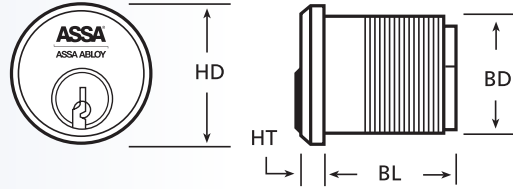
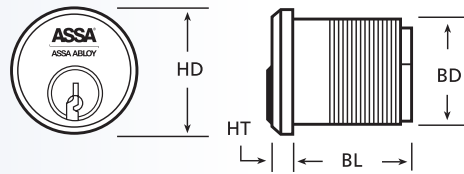**ASSA®**

ASSA ABLOY

HD

HT

BL

BD

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
Maximum+							
9851- *(Specify Cam)*	†	1-1/8"	Maximum+ Mortise Cylinder	1.366"	0.138"	1.125"	1.157"
9852- *(Specify Cam)*	†	1-1/4"				1.25"	
9853- *(Specify Cam)*		1-3/8"				1.375"	
9854- *(Specify Cam)*		1-1/2"				1.50"	
9855- *(Specify Cam)*		1-5/8"				1.625"	
9856- *(Specify Cam)*		1-3/4"				1.75"	
9857- *(Specify Cam)*		1-7/8"				1.875"	
9858- *(Specify Cam)*		2"				2.0"	
Maximum+ Restricted							
R2851- *(Specify Cam)*	†	1-1/8"	Maximum+ Restricted Mortise Cylinder	1.366"	0.138"	1.125"	1.157"
R2852- *(Specify Cam)*	†	1-1/4"				1.25"	
R2854- *(Specify Cam)*		1-1/2"				1.50"	
Twin Maximum							
8851- *(Specify Cam)*	† CLIQ	1-1/8"	Twin Maximum Mortise Cylinder	1.366"	0.138"	1.125"	1.157"
8852- *(Specify Cam)*	† CLIQ	1-1/4"				1.25"	
8853- *(Specify Cam)*	CLIQ	1-3/8"				1.325"	
8854- *(Specify Cam)*	CLIQ	1-1/2"				1.50"	
8855- *(Specify Cam)*	CLIQ	1-5/8"				1.625"	
8856- *(Specify Cam)*	CLIQ	1-3/4"				1.75"	
8857- *(Specify Cam)*	CLIQ	1-7/8"				1.875"	
8858- *(Specify Cam)*	CLIQ	2"				2.0"	
Twin Exclusive							
E6551- *(Specify Cam)*	†	1-1/8"	Twin Exclusive Mortise Cylinder	1.366"	0.138"	1.125"	1.157"
E6552- *(Specify Cam)*	†	1-1/4"				1.25"	
E6553- *(Specify Cam)*		1-3/8"				1.325"	
E6554- *(Specify Cam)*		1-1/2"				1.50"	
E6555- *(Specify Cam)*		1-5/8"				1.625"	
E6556- *(Specify Cam)*		1-3/4"				1.75"	
E6557- *(Specify Cam)*		1-7/8"				1.875"	
E6558- *(Specify Cam)*		2"				2.0"	
Twin 6000 Classic							
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"				1.25"	
6553- *(Specify Cam)*		1-3/8"				1.375"	
6554- *(Specify Cam)*		1-1/2"				1.50"	
6555- *(Specify Cam)*		1-5/8"				1.625"	
6556- *(Specify Cam)*		1-3/4"				1.75"	
6557- *(Specify Cam)*		1-7/8"				1.875"	
6558- *(Specify Cam)*		2"				2.0"	

† Available in special function cylinders, see page 5.

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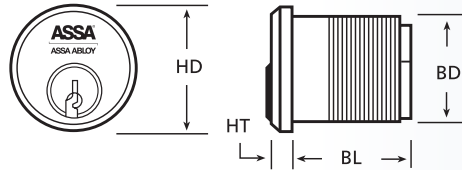
General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

ASSA®
ASSA ABLOY

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

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
Twin V-10							
V6551- (Specify Cam)	†	1-1/8"				1.125"	
V6552- (Specify Cam)	†	1-1/4"				1.25"	
V6553- (Specify Cam)		1-3/8"				1.375"	
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"				1.625"	
V6556- (Specify Cam)		1-3/4"				1.75"	
V6557- (Specify Cam)		1-7/8"				1.875"	
V6558- (Specify Cam)		2"				2.0"	
Twin Pro							
6151- (Specify Cam)	†	1-1/8"				1.125"	
6152- (Specify Cam)	†	1-1/4"				1.25"	
6153- (Specify Cam)		1-3/8"				1.325"	
6154- (Specify Cam)		1-1/2"	Twin Pro Mortise Cylinder	1.366"	0.138"	1.50"	1.157"
6155- (Specify Cam)		1-5/8"				1.625"	
6156- (Specify Cam)		1-3/4"				1.75"	
6157- (Specify Cam)		1-7/8"				1.875"	
6158- (Specify Cam)		2"				2.0"	
Twin Low							
L651- (Specify Cam)		1-1/8"				1.125"	
L652- (Specify Cam)		1-1/4"				1.25"	
L653- (Specify Cam)		1-3/8"				1.325"	
L654- (Specify Cam)		1-1/2"	Twin Low Mortise Cylinder	1.366"	0.138"	1.50"	1.157"
L655- (Specify Cam)		1-5/8"				1.625"	
L656- (Specify Cam)		1-3/4"				1.75"	
L657- (Specify Cam)		1-7/8"				1.875"	
L658- (Specify Cam)		2"				2.0"	
Twin 600 Series Classic							
651- (Specify Cam)		1-1/8"				1.125"	
652- (Specify Cam)		1-1/4"				1.25"	
653- (Specify Cam)		1-3/8"				1.325"	
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"				1.625"	
656- (Specify Cam)		1-3/4"				1.75"	
657- (Specify Cam)		1-7/8"				1.875"	
658- (Specify Cam)		2"				2.0"	

† Available in special function cylinders, see page 5.

![ASSA ASSA ABLOY logo]

Mortise Cylinder Key:

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

Corbin Jumbo Mortise Cylinders

Model#/Cam	Notes	Description	HD	HT	BL	BD
Maximum+						
7951-8	†	**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
7951-12	†	**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam				
Twin Maximum						
7851-8	† CLIQ	**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
7851-12	† CLIQ	**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam				
Twin Exclusive						
E7551-8	†	**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
E7551-12	†	**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam				
Twin 6000 Classic						
7551-8	†	**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
7551-12	†	**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam				
Twin V-10						
V7551-8	†	**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
V7551-12	†	**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam				
Twin Pro						
7151-8	†	**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
7151-12	†	**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam				
Twin Low						
L751-8		**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
L751-12		**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam				
Twin Low 600 Series Classic						
751-8		**Corbin Jumbo** Mortise Cylinder with Corbin Jumbo Cam	1.648"	0.138"	1.125"	1.492"
751-12		**Corbin Jumbo** Mortise Cylinder w/ Cor. Jumbo Clover Cam				

† Available in special function cylinders, see page 5.

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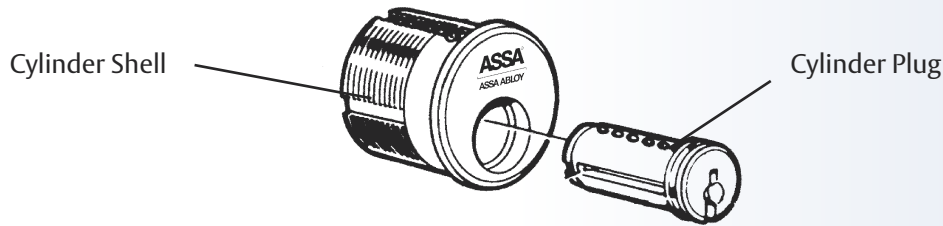
General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.
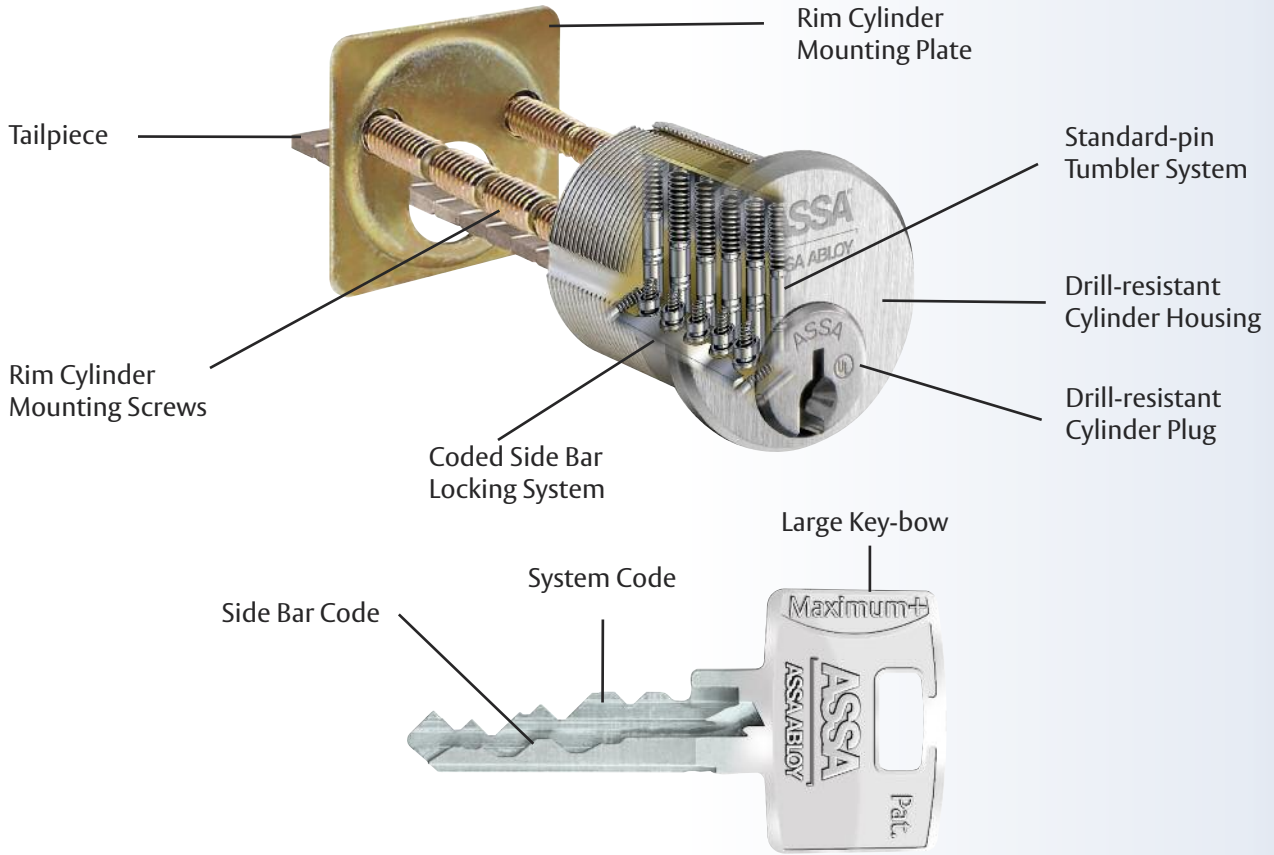
Deadbolts

Auxiliary Locks
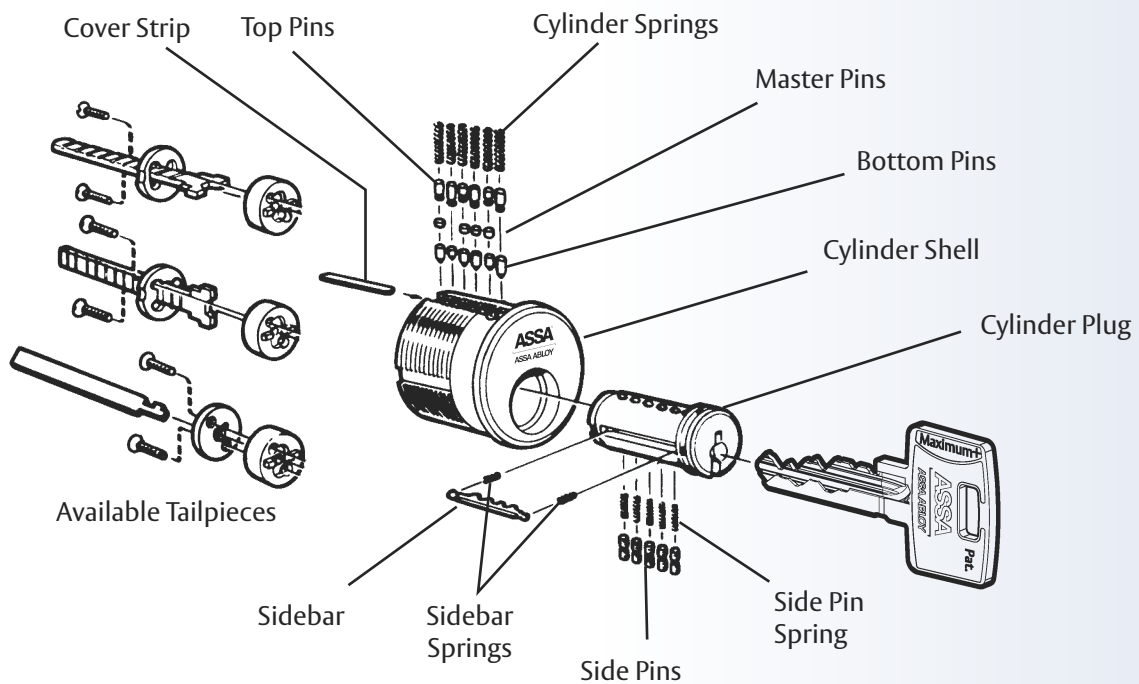
Padlocks

Profile Cyls.
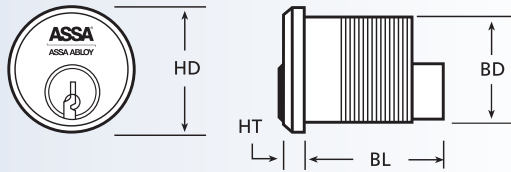
Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

ASSA®
ASSA ABLOY

Cylinder Shell — Cylinder Plug

Maximum+ / Twin Maximum / Twin Pro

Model#	Notes	Description
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.

Twin V-10

Model#	Notes	Description
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

* – Indicates Finished Components

Twin Exclusive / Twin 6000 Classic

Model#	Notes	Description
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

* – Indicates Finished Components.
† – Specify Profile.

![ASSA ABLOY logo]

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

Benefits:

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

Warranty:

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

Certification:

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

Technical Information:

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

Finishes:

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

Note: Plug finishes available in 626 and 606 only.

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

General
Info.

Electronic
Access
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Keys &
Keying

Mortise
Cyls.

Rim
Cyls.

Mogul
Cyls.

IC Core
Cyls.

KIK/KIL
Cyls.

Deadbolts

Auxiliary
Locks

Padlocks

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Cyls.

Pin Kits
Tools &
Accessories

Care &
Maint.

Technical
Specs.

Rim Cylinders Cut-Away View

Rim Cylinder
Mounting Plate

Tailpiece

Standard-pin
Tumbler System

Drill-resistant
Cylinder Housing

Drill-resistant
Cylinder Plug

Rim Cylinder
Mounting Screws

Coded Side Bar
Locking System

Large Key-bow

System Code

Side Bar Code

Rim Cylinders Exploded View

Cover Strip   Top Pins   Cylinder Springs

Master Pins

Bottom Pins

Cylinder Shell

Cylinder Plug

Available Tailpieces

Sidebar   Sidebar
Springs

Side Pin
Spring

Side Pins

ASSA®
ASSA ABLOY

Available Tailpieces

HD

HT
BL
BD

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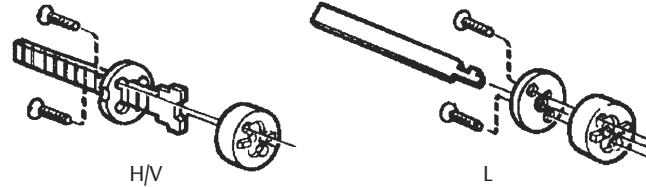
Mortise Cylinder Key:
HD – Head Diameter   **HT** – Head Thickness   **BL** – Body Length (Includes Retainer)   **BD** – Body Diameter

Model#	Tailpiece (Specify)	Notes	Description	HD	HT	BL	BD
Maximum+ Rim Cylinders							
9851	H, V, or L	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	
7951	H, V, or L	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	1.157"
S9851	H, V, or L	†	Special SARGENT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"	
Maximum+ Restricted Rim Cylinders							
R2851	H, V, or L		1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	1.157"
RS2851	H, V, or L		Special SARGENT Cylinder (Drilled for SGT. Devices)				
Twin Maximum Rim Cylinders							
8851	H, V, or L	† CLIQ	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	
7851	H, V, or L	† CLIQ	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	1.157"
S8851	H, V, or L	† CLIQ	Special SARGENT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"	
Twin Exclusive Rim Cylinders							
E6551	H, V, or L	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	
E7551	H, V, or L	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	1.157"
ES6551	H, V, or L	†	Special SARGENT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"	
Twin 6000 Classic Rim Cylinders							
6551	H, V, or L	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	
7551	H, V, or L	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	1.157"
S6551	H, V, or L	†	Special SARGENT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"	
Twin V-10 Rim Cylinders							
V6551	H, V, or L	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	
V7551	H, V, or L	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	1.157"
VS6551	H, V, or L	†	Special SARGENT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"	
Twin Pro							
6151	H, V, or L	†	1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	
7151	H, V, or L	†	Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	1.157"
S6151	H, V, or L	†	Special SARGENT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"	
Twin Low Rim Cylinders							
L651	H, V, or L		1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	
L751	H, V, or L		Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	1.157"
LS651	H, V, or L		Special SARGENT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"	
600 Series Rim Cylinders							
651	H, V, or L		1-1/8" Rim Cylinder	1.366"	0.138"	1.290"	
751	H, V, or L		Corbin Jumbo Rim Cylinder	1.643"	0.170"	1.270"	1.157"
S651	H, V, or L		Special SARGENT Cylinder (Drilled for SGT. Devices)	1.366"	0.138"	1.290"	

† Available in special function cylinders, see page 5.

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

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.
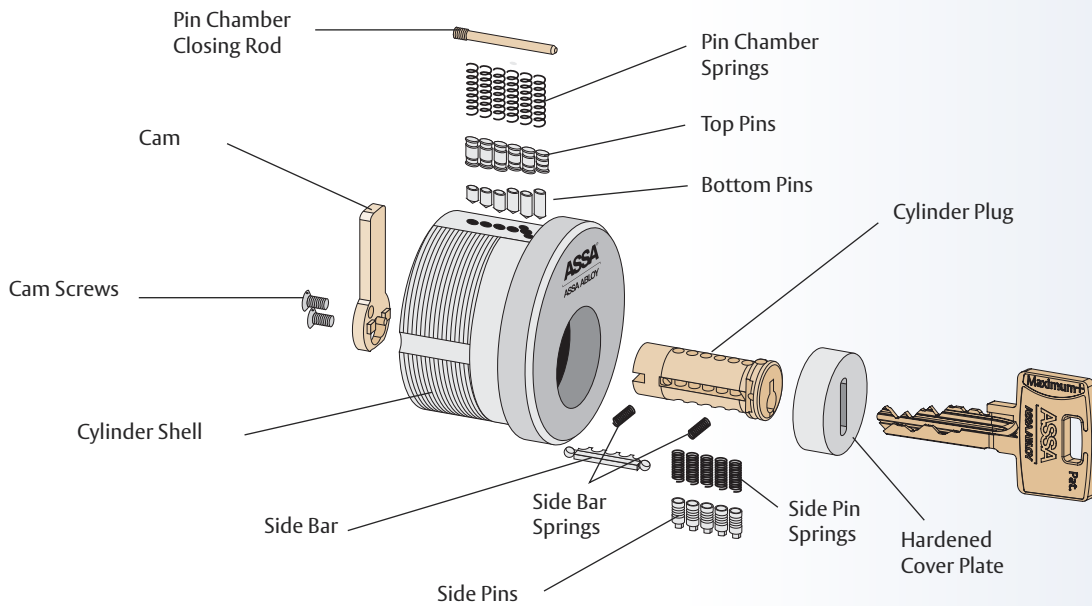
KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

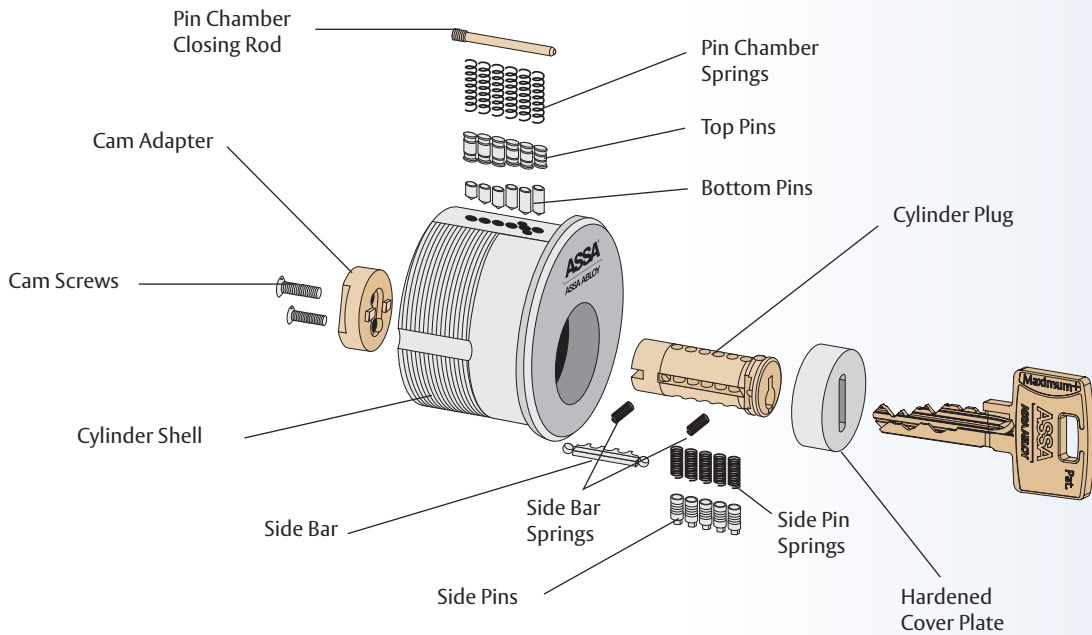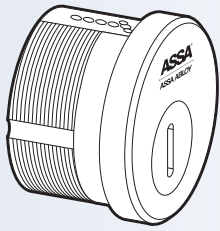Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

ASSA
ASSA ABLOY

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

Cylinder Shell   Cylinder Plug

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

* – Indicates Finished Components.
† – Specify Profile.

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

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

Aluminum blocking rings, finish 626 or 624 ONLY

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

Adjustable collar ring, Item No. 900222, finish 626,605 or 624 **ONLY**.

Hardened collar ring, Item No. 900223, finish 626 or 624 **ONLY.**

Corbin Jumbo Collar, Item No. 900224, finish 626, **ONLY**.

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

Benefits:

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

Warranty:

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

Certification:

- All ASSA 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:

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

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

ASSA®
ASSA ABLOY

1-1/8" Mogul Cylinder

Pin Chamber Closing Rod

Pin Chamber Springs

Cam

Top Pins

Bottom Pins

Cylinder Plug

Cam Screws

Cylinder Shell

Side Bar

Side Bar Springs

Side Pin Springs

Hardened Cover Plate

Side Pins

1-1/2" Mogul Cylinder

Pin Chamber Closing Rod

Pin Chamber Springs

Cam Adapter

Top Pins

Bottom Pins

Cylinder Plug

Cam Screws

Cylinder Shell

Side Bar

Side Bar Springs

Side Pin Springs

Side Pins

Hardened Cover Plate

ASSA®

ASSA ABLOY

1-1/8" Mogul Cylinder
AirTeq/Norment
R.R. Brink
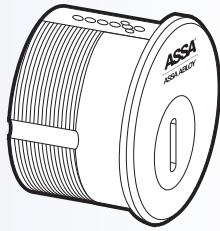
1-1/2" Mogul Cylinder
Southern Steel
Folger Adam
AirTeq/Norment
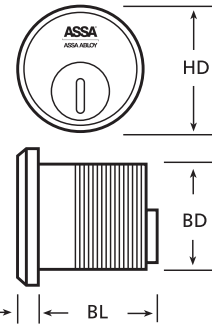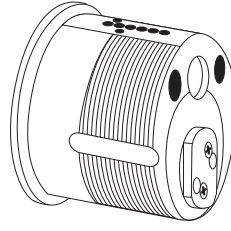
Mogul Cylinder Key:

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

Model#/Cam	Notes	Size	Description	HD	HT	BL	BD
Twin Maximum Mogul Cylinders							
M8551-11	†	1-1/8"	AirTeq/Norment Cylinder with Mogul Cam	2.245"	0.340"	1.260"	2.0"
M8551-14	†	1-1/8"	AirTeq/Norment Cylinder with Sargent Mogul Cam				
M8551SS	†	1-1/2"	Southern Steel Cylinder without Cam		0.120"	1.590"	
Twin Exclusive Mogul Cylinders							
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				
E8551SS	†	1-1/2"	Southern Steel Cylinder without Cam		0.120"	1.590"	
Twin V-10 Mogul Cylinders							
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				
V8551SS	†	1-1/2"	Southern Steel Cylinder without Cam		0.120"	1.590"	
Twin 6000 Classic Mogul Cylinders							
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				
8551SS	†	1-1/2"	Southern Steel Cylinder without Cam		0.120"	1.590"	

Available Cams for High Security Mogul Cylinders

R-A   R-B

#11
Mogul

#14
Sargent
Mogul Cam
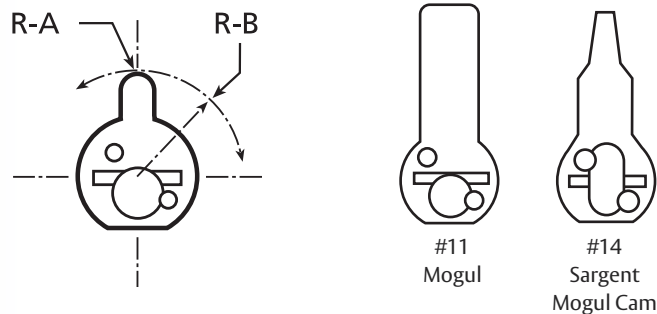
No Cams offered for 1-1/2" Mogul Cylinders.
† Available in special function cylinders, see page 5.

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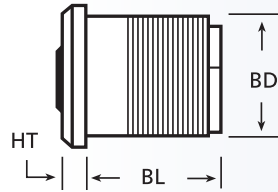
General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.
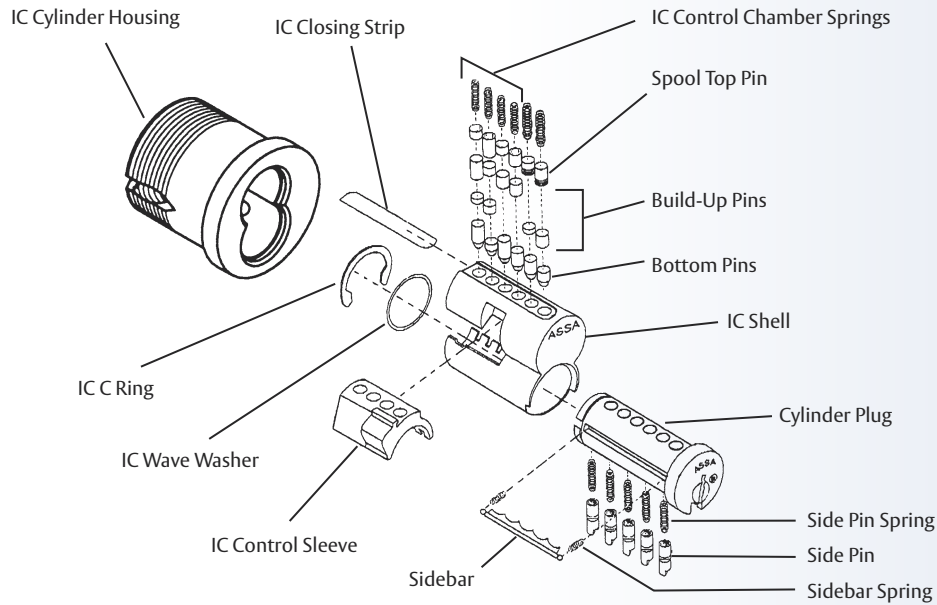
IC Core Cyls.

KIK/KIL Cyls.
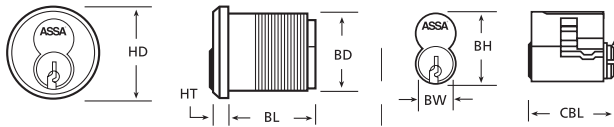
Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

General
Info.

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Keys &
Keying

Mortise
Cyls.

Rim
Cyls.

Mogul
Cyls.

IC Core
Cyls.

KIK/KIL
Cyls.

Deadbolts

Auxiliary
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Cyls.

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Care &
Maint.

Technical
Specs.

1-1/2" IC Mogul Cylinder

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

Model#/Cam	Notes	Size	Description	HD	HT	BL	BD
Twin Maximum Interchangeable Core Mogul Cylinders							
M8551SSIC		1-1/2"	Southern Steel IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
Twin Exclusive Interchangeable Core Mogul Cylinders							
E8551SSIC		1-1/2"	Southern Steel IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
Twin V-10 Interchangeable Core Mogul Cylinders							
V8551SSIC		1-1/2"	Southern Steel IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
Twin 6000 Classic Interchangeable Core Mogul Cylinders							
8551SSIC		1-1/2"	Southern Steel IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"
ASSA 1-1/2" Temporary Interchangeable Red Core Mogul Cylinders							
8551SSICR		1-1/2"	Southern Steel IC Cylinder without Cam	2.245"	0.120"	1.590"	2.0"

High Security Mogul Component Parts

Model#/Cam	Description
354050	Twin Exclusive Plug for 1-1/8" Mogul Cylinder
250893	Twin Exclusive Plug for 1-1/2" Mogul Cylinder
250861	Twin V-10 Plug for 1-1/8" Mogul Cylinder
250894	Twin V-10 Plug for 1-1/2" Mogul Cylinder
360451	Twin Maximum Plug for 1-1/8" Mogul Cylinder
251126	Twin Maximum Plug for 1-1/2" Mogul Cylinder
8551DUM	1-1/8" Mogul Dummy Cylinder
8551SSDUM	1-1/2" Mogul Dummy Cylinder
80601*	1-1/2" Mogul IC Housing
354051*	1-1/8" Mogul Cylinder Housing
357672*	1-1/2" Mogul Cylinder Housing
354993	Cam Adapter for 1-1/2" Cylinder
809339*	Mogul Cylinder Plug Cover Plate
907035	Mogul Chamber Screw Wrench
806974	Closing Rod
812151	Cam Adapter Screws
806346	Pin Chamber Closing Screws (For Mogul Cylinders Produced Before 2002)

* – Indicates Finished Components.

Interchangeable Core Cylinders

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

Benefits:

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

Technical Information:

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

Warranty:

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

Certification:

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

Finishes IC Mortise Cylinder Housings Only:

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

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

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

Labels: IC Cylinder Housing, IC Closing Strip, IC Control Chamber Springs, Spool Top Pin, Build-Up Pins, Bottom Pins, IC Shell, Cylinder Plug, IC C Ring, IC Wave Washer, IC Control Sleeve, Sidebar, Side Pin Spring, Side Pin, Sidebar Spring

Mortise and Rim IC Cylinders

Mortise Cylinder Key:

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

Model#	Cam or Tailpiece (Specify)	Notes	Description	HD	HT	BL	BD	BH	BW	CBL	R
Maximum+ Mortise and Rim IC Cylinders											
9852IC	Cam		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
9852IC	H, V or L		1-1/4" IC Rim Cylinder								
7951IC	Cam		1-1/4" Corbin Jumbo IC Mortise Cylinder	1.643"							
7951IC	H, V or L		1-1/4" Corbin Jumbo IC Rim Cylinder								
Interchangeable Cores Only											
98600IC			ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"
99060IC		†	Sargent IC 6 Pin Core Only					N/A	N/A	1.247"	
91060IC			Schlage IC 6 Pin Core Only					1.045"	0.628"	1.450"	
98060IC			Yale Style IC 6 Pin Core Only					1.045"	0.671"	1.415"	
95060IC		▲	Corbin Russwin Style IC 6 Pin Core Only					N/A	N/A	N/A	N/A
Maximum+ Restricted Mortise and Rim IC Cylinders											
R2852IC	Cam		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
R2852IC	H, V or L		1-1/4" IC Rim Cylinder								
Interchangeable Cores Only											
R28600IC			ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"
R28060IC			Yale Style IC 6 Pin Core Only					1.045"	0.671"	1.415"	

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

† This cylinder requires part # SGTRCTOOL for mortise and rim cylinders. See Page 82.

▲ This cylinder requires part # CRRCTOOL for mortise and rim cylinders. See Page 82.

🔲 – Twin Maximum available with CLIQ™ Technology. Example: <u>8852IC-1</u> x <u>CLIQ</u> x <u>626</u> x <u>Sidebar</u> x <u>Comp</u>.

![ASSA ASSA ABLOY logo]

Mortise Cylinder Key:
- **HD** – Head Diameter
- **HT** – Head Thickness
- **BL** – Body Length (Includes Cam)
- **BD** – Body Diameter
- **BH** – Body Height
- **BW** – Body Width
- **CBL** – IC Core Body Length
- **R** – Retainer

Model#	Cam or Tailpiece (Specify)	Notes	Description	HD	HT	BL	BD	BH	BW	CBL	R
Twin Maximum Mortise and Rim IC Cylinders											
8852IC	Cam	CLIQ	1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
8852IC	H, V or L	CLIQ	1-1/4" IC Rim Cylinder								
7851IC	Cam	CLIQ	1-1/4" Corbin Jumbo IC Mortise Cylinder	1.643"							
7851IC	H, V or L	CLIQ	1-1/4" Corbin Jumbo IC Rim Cylinder								
Interchangeable Cores Only											
88600IC		CLIQ	ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"
89060IC		† CLIQ	Sargent IC 6 Pin Core Only					N/A	N/A	1.247"	
81060IC		CLIQ	Schlage IC 6 Pin Core Only					1.045"	0.628"	1.450"	
88060IC		CLIQ	Yale Style IC 6 Pin Core Only					1.045"	0.671"	1.415"	
85060IC		▲	Corbin Russwin Style IC 6 Pin Core Only					N/A	N/A	N/A	N/A
Twin Exclusive Mortise and Rim IC Cylinders											
E6552IC	Cam		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
E6552IC	H, V or L		1-1/4" IC Rim Cylinder								
E7551IC	Cam		1-1/4" Corbin Jumbo IC Mortise Cylinder								
E7551IC	H, V or L		1-1/4" Corbin Jumbo IC Rim Cylinder								
Interchangeable Cores Only											
E70600IC			ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"
E90600IC		†	Sargent IC 6 Pin Core Only					N/A	N/A	1.247"	
E10600IC			Schlage IC 6 Pin Core Only					1.045"	0.628"	1.450"	
E80600IC			Yale Style IC 6 Pin Core Only					1.045"	0.671"	1.415"	

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

† This cylinder requires part # SGTRCTOOL for mortise cylinders. See Page 82.

▲ This cylinder part # CRRCTOOL for mortise cylinders. See Page 82.

CLIQ – Twin Maximum available with CLIQ™ Technology. Example: 8852IC-1 x **CLIQ** x 626 x Sidebar x Comp.

Sidebar navigation:
- General Info.
- Electronic Access Control
- Keys & Keying
- Mortise Cyls.
- Rim Cyls.
- Mogul Cyls.
- IC Core Cyls.
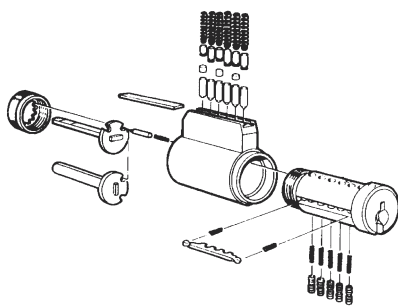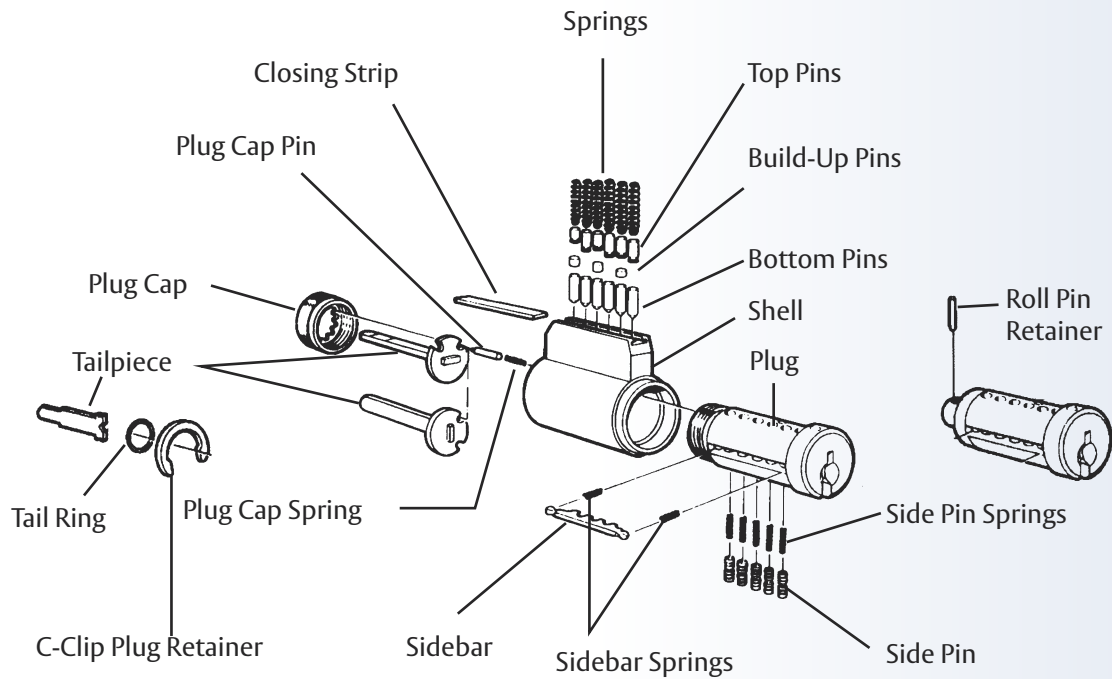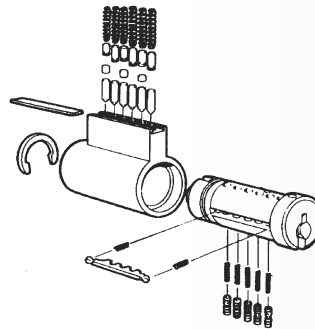- KIK/KIL Cyls.
- Deadbolts
- Auxiliary Locks
- Padlocks
- Profile Cyls.
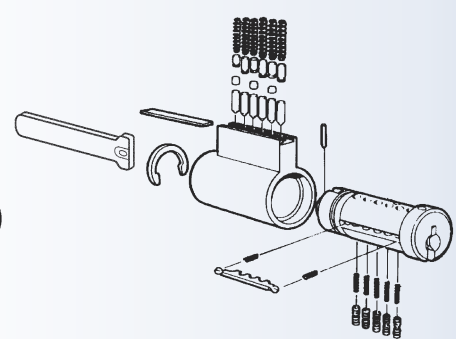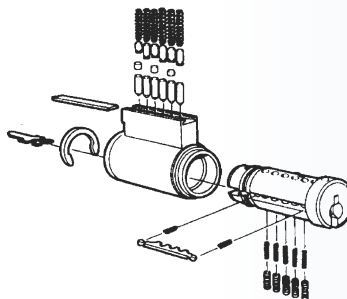- Pin Kits Tools & Accessories
- Care & Maint.
- Technical Specs.

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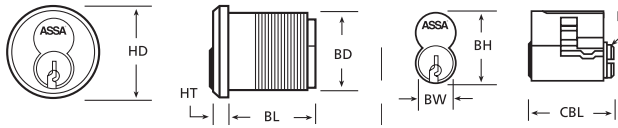
Mortise Cylinder Key:

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

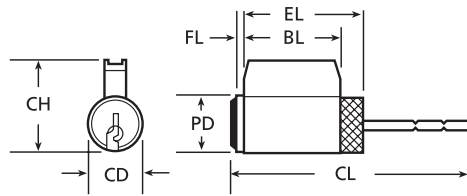| Model#	Cam or Tailpiece (Specify)	Notes	Description	HD	HT	BL	BD	BH	BW	CBL	R
Twin 6000 Classic Mortise and Rim IC Cylinders											
6552IC	Cam		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
6552IC	H, V or L		1-1/4" IC Rim Cylinder								
7551IC	Cam		1-1/4" Corbin Jumbo IC Mortise Cylinder								
7551IC	H, V or L		1-1/4" Corbin Jumbo IC Rim Cylinder								
Interchangeable Cores Only											
70600IC			ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"
80600IC			Yale Style IC 6 Pin Core Only					1.045"	0.671"	1.415"	
Twin V-10 Mortise and Rim IC Cylinders											
V6552IC	Cam		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
V6552IC	H, V or L		1-1/4" IC Rim Cylinder								
V7551IC	Cam		1-1/4" Corbin Jumbo IC Mortise Cylinder								
V7551IC	H, V or L		1-1/4" Corbin Jumbo IC Rim Cylinder								
Interchangeable Cores Only											
V70600IC			ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"
V90600IC		†	Sargent IC 6 Pin Core Only					N/A	N/A	1.247"	
V10600IC			Schlage IC 6 Pin Core Only					1.045"	0.628"	1.450"	
V80600IC			Yale Style IC 6 Pin Core Only					1.045"	0.671"	1.415"	
Twin Pro Mortise and Rim IC Cylinders											
6152IC	Cam		1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	1.055"	0.655"	1.247"	0.036"
6152IC	H, V or L		1-1/4" IC Rim Cylinder								
7152IC	Cam		1-1/4" Corbin Jumbo IC Mortise Cylinder								
7152IC	H, V or L		1-1/4" Corbin Jumbo IC Rim Cylinder								
Interchangeable Cores Only											
61600IC			ASSA IC 6 Pin Core Only	N/A	N/A	N/A	N/A	1.055"	0.655"	1.247"	0.036"
69060IC		†	Sargent IC 6 Pin Core Only					N/A	N/A	N/A	N/A
61060IC			Schlage IC 6 Pin Core Only					1.055"	0.655"	1.247"	0.036"
68060IC			Yale Style IC 6 Pin Core Only								
1-1/4" Temporary Interchangeable Red Core Mortise/Rim Cylinder											
6552ICR	Cam	*	1-1/4" IC Mortise Cylinder	1.366"	0.175"	1.125"	1.157"	–	–	–	–
6552ICR	H, V or L	*	1-1/4" IC Rim Cylinder	1.366"	0.175"	1.125"	1.157"				
70600ICR			Temp. Const. Core (Red Core)	1.055"	0.655"	1.247"	0.036"				
Interchangeable Core Housings											
60601	Cam	*	IC Housing	1.366"	0.175"	1.125"	1.157"	–	–	–	–
60601	H, V or L	*	IC Housing								
60606	Cam	*	1-3/4" IC Housing								
80601		*	1-1/2" Mogul IC Housing	2.245"	0.120"	1.590"	2.0"				

For temporary cores refer to Red Core on page 5.

† This cylinder requires Sargent tailpiece kit part # 867454 for cylindrical locks or part # SGTRCTOOL for mortise cylinders. See Pages 81 & 82.

* – Indicates Finished Components.

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

Benefits:

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

Warranty:

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

Certification:

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

Technical Information:

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

Finishes:

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

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

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Key-in-Knob/Levers Cylinders Exploded View

Springs

Closing Strip

Top Pins

Plug Cap Pin

Build-Up Pins

Plug Cap

Bottom Pins

Roll Pin
Retainer

Shell

Tailpiece

Plug

Plug Cap Spring

Tail Ring

Side Pin Springs

C-Clip Plug Retainer

Sidebar

Sidebar Springs

Side Pin

XX611 – Schlage

XX631 – Yale

XX632 – Yale
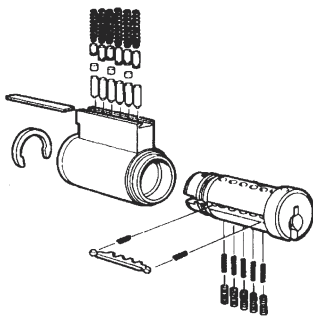
XX651 – Corbin/Russwin

XX652 – Corbin/Russwin
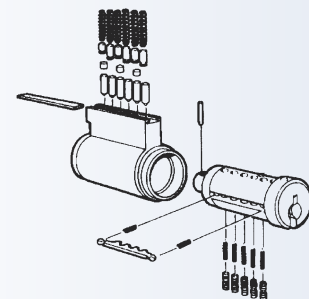
XX653 – Corbin/Russwin

Key-in-Knob/Levers Cylinders Exploded View

General
Info.

Electronic
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Control

Keys &
Keying

Mortise
Cyls.

Rim
Cyls.

Mogul
Cyls.

IC Core
Cyls.

KIK/KIL
Cyls.

Deadbolts

Auxiliary
Locks

Padlocks

Profile
Cyls.

Pin Kits
Tools &
Accessories

Care &
Maint.

Technical
Specs.

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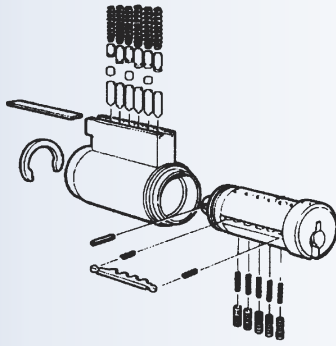
XX654 – Corbin/Russwin
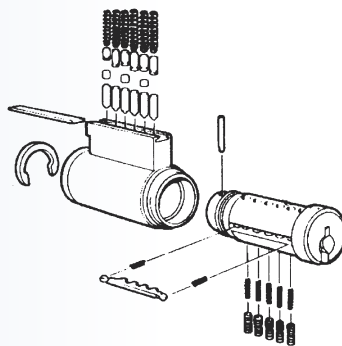
XX655 – Corbin/Russwin
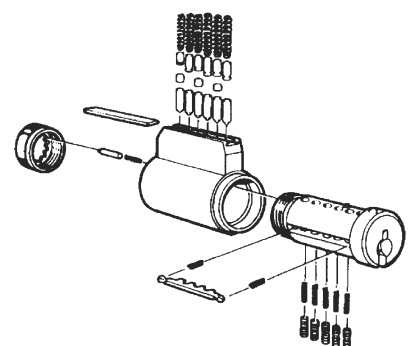
XX661 – Falcon
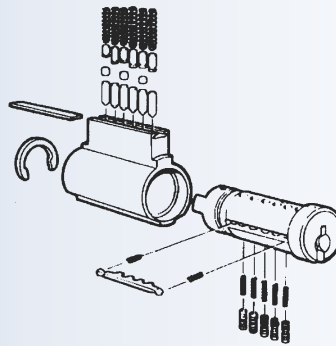
XX671 – Sargent
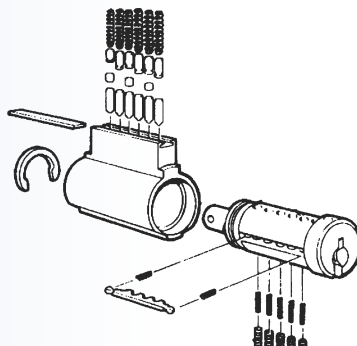
XX672 – Sargent
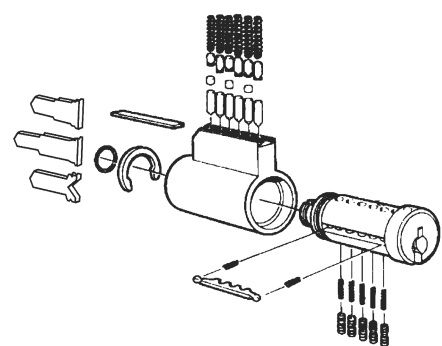
XX673 – Sargent
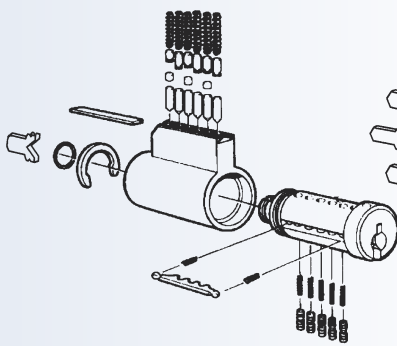
XX673-TZ – Sargent

XX691 – Arrow

XX692 – Arrow

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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
Schlage Maximum+ — 98611 Maximum+ Restricted — R28611 Twin Maximum [CLIQ] — 88611 Twin Exclusive — E65611 Twin 6000 Classic — 65611 Twin V-10 — V65611 Twin Pro — 61611 Twin Low — L6611 Twin 600 Classic — 6611		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
Yale Maximum+ — 98631 Twin Maximum [CLIQ] — 88631 Twin Exclusive — E65631 Twin 6000 Classic — 65631 Twin V-10 — V65631 Twin Pro — 61631 Twin Low — L6631 Twin 600 Classic — 6631		Standard and heavy-duty	1.000	0.677	1.071	N/A	1.429	0.000	0.560
Yale Maximum+ — 98632 Twin Maximum [CLIQ] — 88632 Twin Exclusive — E65632 Twin 6000 Classic — 65632 Twin V-10 — V65632 Twin Pro — 61632 Twin Low — L6632 Twin 600 Classic — 6632		Key-In-Lever style	1.000	0.677	1.071	2.975	1.429	0.000	0.560
Corbin/Russwin Maximum+ — 98651 Twin Maximum [CLIQ] — 88651 Twin Exclusive — E65651 Twin 6000 Classic — 65651 Twin V-10 — V65651 Twin Pro — 61651 Twin Low — L6651 Twin 600 Classic — 6651		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
Corbin/Russwin Maximum+ — 98652 Twin Maximum [CLIQ] — 88652 Twin Exclusive — E65652 Twin 6000 Classic — 65652 Twin V-10 — V65652 Twin Pro — 61652 Twin Low — L6652 Twin 600 Classic — 6652		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
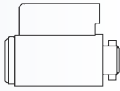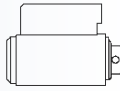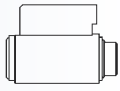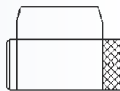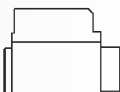
[CLIQ] – Twin Maximum available with CLIQ™ Technology. Example: 88611 x **CLIQ** x 626 x Sidebar x Comp

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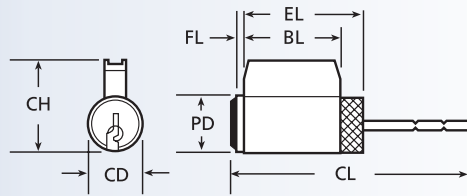
Key-in-Knob/Lever Key:

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

Make	Model #	Description	BL	CD	CH	CL	EL	FL	PD
Corbin/Russwin Maximum+ Twin Maximum `CLIQ` Twin Exclusive Twin 6000 Classic Twin V-10 Twin Pro Twin Low Twin 600 Classic	 98653 88653 E65653 65653 V65653 61653 L6653 6653	 Russwin cylinder 19F35	1.038	0.677	1.071	N/A	1.275	0.135	0.560
Corbin/Russwin Maximum+ Twin Maximum `CLIQ` Twin Exclusive Twin 6000 Classic Twin V-10 Twin Pro Twin Low Twin 600 Classic	 98654 88654 E65654 65654 V65654 61654 L6654 6654	 Russwin cylinder 25F26, 25F56, 24F15, 67F69, 55F76	1.038	0.677	1.071	N/A	1.299	0.135	0.560
Corbin/Russwin Maximum+ Twin Maximum `CLIQ` Twin Exclusive Twin 6000 Classic Twin V-10 Twin Pro Twin Low Twin 600 Classic	 98655 88655 E65655 65655 V65655 61655 L6655 6655	 Russwin cylinder 25F65	1.038	0.677	1.071	N/A	1.305	0.135	0.560
Falcon Twin Exclusive Twin 6000 Classic Twin V-10 Twin Pro Twin Low Twin 600 Classic	 E65661 65661 V65661 61661 L6661 6661	 S & X Series, Use original manufacturer cap and tailpiece	1.022	0.634	1.020	N/A	1.325	0.071	0.560
Sargent Maximum+ Twin Maximum `CLIQ` Twin Exclusive Twin 6000 Classic Twin V-10 Twin Pro Twin Low Twin 600 Classic	 98671 88671 E65671 65671 V65671 61671 L6671 6671	 Integra	1.025	0.677	1.071	N/A	1.447	0.000	0.560

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

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

ASSA®

ASSA ABLOY

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
Sargent Maximum+ Maximum+ Restricted Twin Maximum Twin Exclusive Twin 6000 Classic Twin V-10 Twin Pro Twin Low Twin 600 Classic	98672 R28672 88672 E65672 65672 V65672 61672 L6672 6672	Heavy-duty 7, 8, 9 lines KIK	1.010	0.677	1.071	N/A	1.663	0.020	0.560
Sargent Maximum+ Maximum+ Restricted Twin Maximum Twin Exclusive Twin 6000 Classic Twin V-10 Twin Pro Twin Low Twin 600 Classic	98673 R28673 88673 E65673 65673 V65673 61673 L6673 6673	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
Sargent T-Zone Maximum+ Maximum+ Restricted Twin Maximum Twin Exclusive Twin 6000 Classic Twin V-10 Twin Pro Twin Low Twin 600 Classic	98673-TZ R28673-TZ 88673-TZ E65673-TZ 65673-TZ V65673-TZ 61673-TZ L6673-TZ 6673-TZ	T-Zone 11 Line KIL	0.990	0.634	1.020	1.720	1.235	0.000	0.560
Arrow Maximum+ Maximum+ Restricted Twin Maximum Twin Exclusive Twin 6000 Classic Twin V-10 Twin Pro Twin Low Twin 600 Classic	98691 R28691 88691 E65691 65691 V65691 61691 L6691 6691	Standard and heavy-duty, 3 tailpiece 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
Arrow Maximum+ Twin Maximum Twin Exclusive Twin 6000 Classic Twin V-10 Twin Pro Twin Low Twin 600 Classic	98692 88692 E65692 65692 V65692 61692 L6692 6692	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

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

Maximum+ / Twin Maximum / Twin Pro

Model#	Notes	Description
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.

Twin Exclusive / Twin 6000 Classic

Model#	Notes	Description
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.

Twin V-10

Model#	Notes	Description
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)

* - Indicates Finished Components

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

ASSA®

ASSA ABLOY

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Mogul
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IC Core
Cyls.

KIK/KIL
Cyls.

Deadbolts

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Padlocks

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Accessories

Care &
Maint.

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

Benefits:

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

Warranty:

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

Certification:

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

Technical Information:

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

Finishes:

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

Outside Cylinder
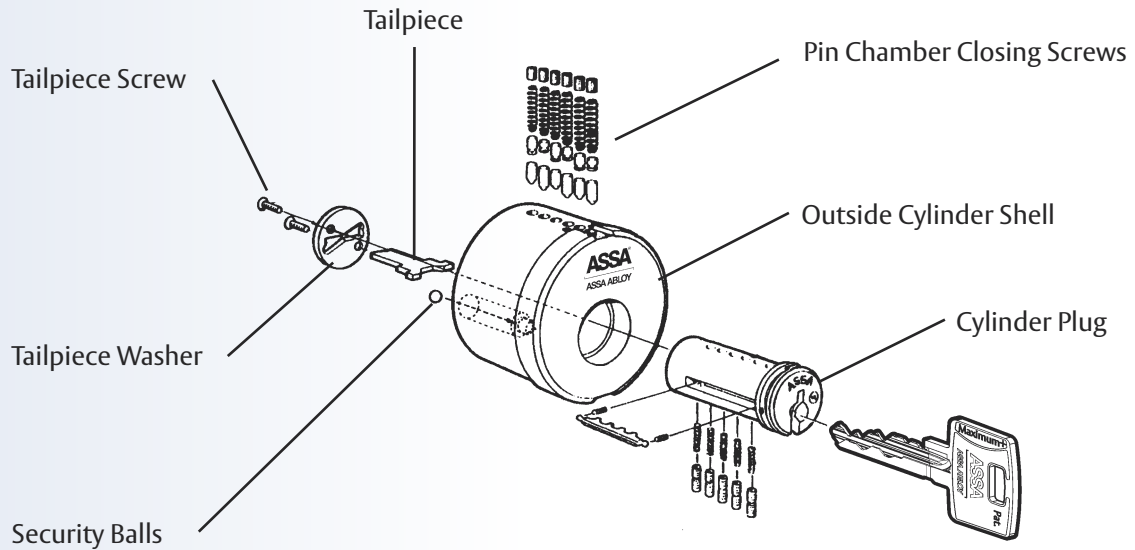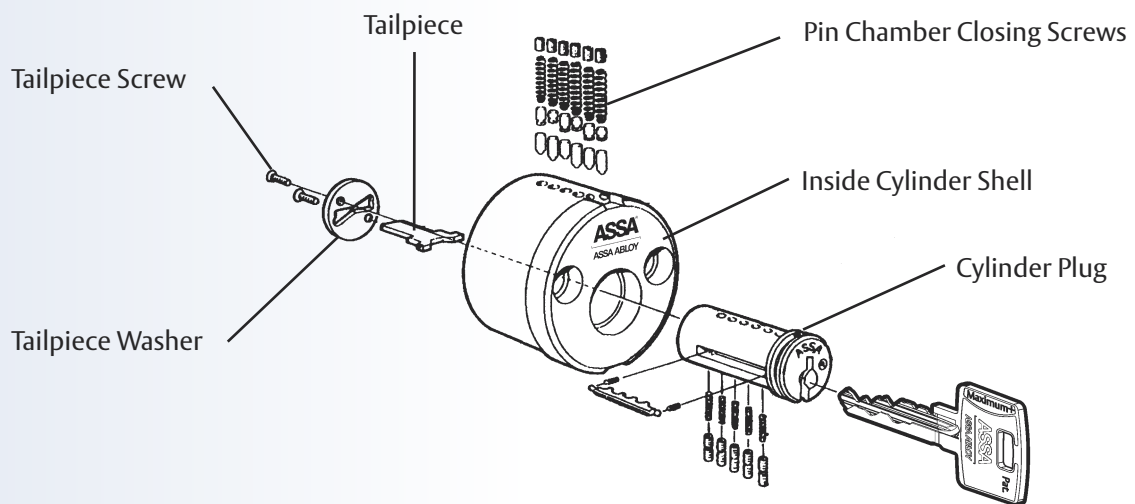
Tailpiece

Tailpiece Screw

Pin Chamber Closing Screws

Outside Cylinder Shell

Cylinder Plug

Tailpiece Washer

Security Balls

Inside Cylinder

Tailpiece

Tailpiece Screw

Pin Chamber Closing Screws

Inside Cylinder Shell

Cylinder Plug

Tailpiece Washer

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

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Profile Cyls.

Pin Kits Tools & Accessories

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ASSA®

ASSA ABLOY

6000 Series
Deadbolt

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KIK/KIL
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Accessories

Care &
Maint.

Technical
Specs.
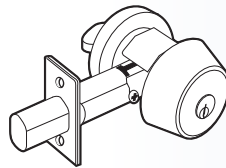
6000 Series Grade 1 Deadbolt Locks

Model#	Notes	Description
Maximum +		
9800		Single cylinder w/thumbturn
9800DC		Double cylinder
9800NT		Single cylinder no thumbturn
9800LB		Single cylinder less bolt
9800DCLB		Double cylinder less bolt
Twin Maximum		
8800	CLIQ	Single cylinder w/thumbturn
8800DC	CLIQ	Double cylinder
8800NT	CLIQ	Single cylinder no thumbturn
8800LB	CLIQ	Single cylinder less bolt
8800DCLB	CLIQ	Double cylinder less bolt
Twin Exclusive		
E6000		Single cylinder w/thumbturn
E6000DC		Double cylinder
E6000NT		Single cylinder no thumbturn
E6000LB		Single cylinder less bolt
E6000DCLB		Double cylinder less bolt
Twin 6000 Classic		
6000		Single cylinder w/thumbturn
6000DC		Double cylinder
6000NT		Single cylinder no thumbturn
6000LB		Single cylinder less bolt
6000DCLB		Double cylinder less bolt
Twin V-10		
V6000		Single cylinder w/thumbturn
V6000DC		Double cylinder
V6000NT		Single cylinder no thumbturn
V6000LB		Single cylinder less bolt
V6000DCLB		Double cylinder less bolt
Twin Pro		
6100		Single cylinder w/thumbturn
6100DC		Double cylinder
6100NT		Single cylinder no thumbturn
6100LB		Single cylinder less bolt
6100DCLB		Double cylinder less bolt

600 Series Grade 1 Deadbolt Locks

Model#	Notes	Description
600 Series Classic		
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

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

6000 Series Grade 1 Deadbolt Locks Interchangeable Core

Model#	Notes	Description
Maximum +		
9800IC		Single cylinder IC
9800DCIC		Double cylinder IC
Twin Maximum		
8800IC	CLIQ	Single cylinder IC
8800DCIC	CLIQ	Double cylinder IC
Twin Exclusive		
E6000IC		Single cylinder IC
E6000DCIC		Double cylinder IC
Twin 6000 Classic		
6000IC		Single cylinder IC
6000DCIC		Double cylinder IC
Twin V-10		
V6000IC		Single cylinder IC
V6000DCIC		Double cylinder IC
Twin Pro		
6100IC		Single cylinder IC
6100DCIC		Double cylinder IC
6000 Series Grade 1 Deadbolt Locks Interchangeable Core Less Core		
6000ICLC		Single cylinder IC (Less Core)
6000DCICLC		Double cylinder IC (Less Core)
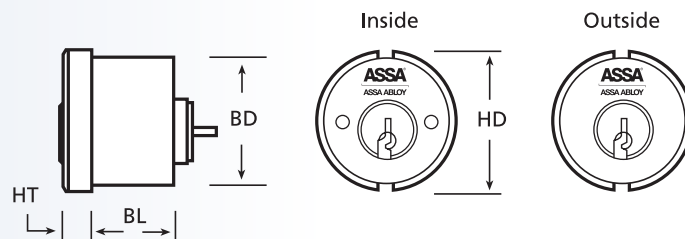
Inside   Outside

6000 Series Deadbolt Cylinders Only

Model#	Notes	Description	HT	BL	BD	HD
Maximum +						
9881		Outside cylinder				
9882		Inside cylinder				
9883		Inside & Outside cylinder				
9881IC		Outside IC cylinder	0.323	0.920	1.440	1.572
9882IC		Inside IC cylinder				
9883IC		Inside & Outside IC cylinder				
Twin Maximum						
8881	CLIQ	Outside cylinder				
8882	CLIQ	Inside cylinder				
8883	CLIQ	Inside & Outside cylinder				
8881IC	CLIQ	Outside IC cylinder	0.323	0.920	1.440	1.572
8882IC	CLIQ	Inside IC cylinder				
8883IC	CLIQ	Inside & Outside IC cylinder				

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

![ASSA ASSA ABLOY logo]

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.
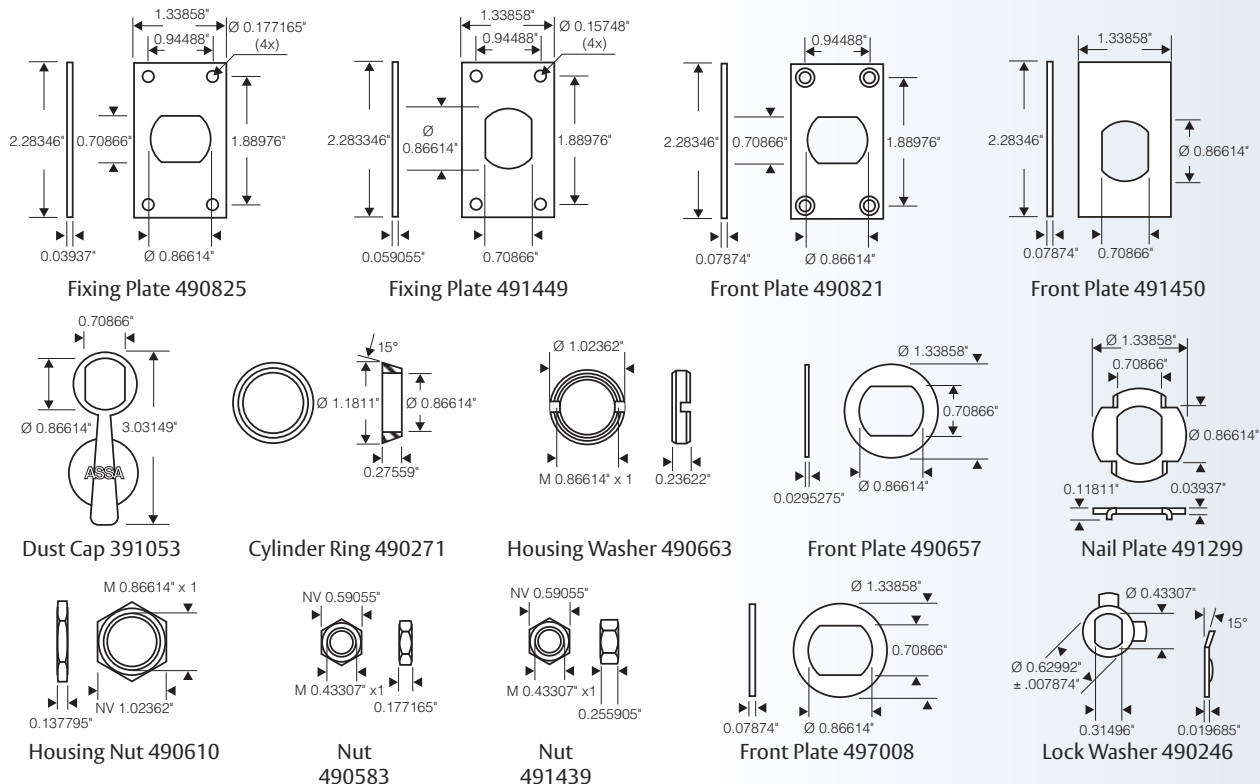
Pin Kits Tools & Accessories
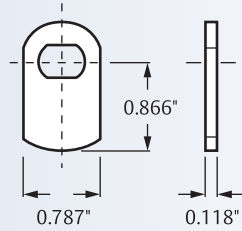
Care & Maint.

Technical Specs.

6000 Series Deadbolt Cylinders Only

Model#	Notes	Description	HT	BL	BD	HD
Twin Exclusive						
E65811		Outside cylinder	0.323	0.920	1.440	1.572
E65812		Inside cylinder				
E65813		Inside & Outside cylinder				
E65811IC		Outside IC cylinder				
E65812IC		Inside IC cylinder				
E65813IC		Inside & Outside IC cylinder				
Twin 6000 Classic						
65811		Outside cylinder	0.323	0.920	1.440	1.572
65812		Inside cylinder				
65813		Inside & Outside cylinder				
65811IC		Outside IC cylinder				
65812IC		Inside IC cylinder				
65813IC		Inside & Outside IC cylinder				
Twin V-10						
V65811		Outside cylinder	0.323	0.920	1.440	1.572
V65812		Inside cylinder				
V65813		Inside & Outside cylinder				
V65811IC		Outside IC cylinder				
V65812IC		Inside IC cylinder				
V65813IC		Inside & Outside IC cylinder				
Twin Pro						
6181		Outside cylinder	0.323	0.920	1.440	1.572
6182		Inside cylinder				
6183		Inside & Outside cylinder				
6181IC		Outside IC cylinder				
6182IC		Inside IC cylinder				
6183IC		Inside & Outside IC cylinder				
Interchangeable Core Cylinder Less Core						
65811ICLC		Outside cylinder (Less Core)	0.323	0.920	1.440	1.572
65812ICLC		Inside cylinder (Less Core)				
65813ICLC		Inside & Outside cylinder (Less Core)				

600 Series Deadbolt Cylinders Only

Model#	Notes	Description
600 Series Classic		
6811		Outside cylinder
6812		Inside cylinder
6813		Inside & Outside cylinder

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

Benefits:

• All locks operated by same high security key

• Unlimited number of applications

• Two independent locking mechanisms to ensure security and optimum pick resistance

• Inactive "false" gates in side pins designed to increase pick resistance

• Can be easily rekeyed in the field

Technical Information:

• Cylinder housing and plug made of high quality brass

• Stainless steel top pins

• Bottom pins and master pins are nickel silver

Warranty:

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

General
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Electronic
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Keys &
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Mortise
Cyls.

Rim
Cyls.

Mogul
Cyls.

IC Core
Cyls.

KIK/KIL
Cyls.

Deadbolts

Auxiliary
Locks

Padlocks

Profile
Cyls.

Pin Kits
Tools &
Accessories

Care &
Maint.

Technical
Specs.

ASSA®

ASSA ABLOY

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

Benefits:

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

Technical Information:

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

Warranty:

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

Finishes:

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

Cam Locks Exploded View
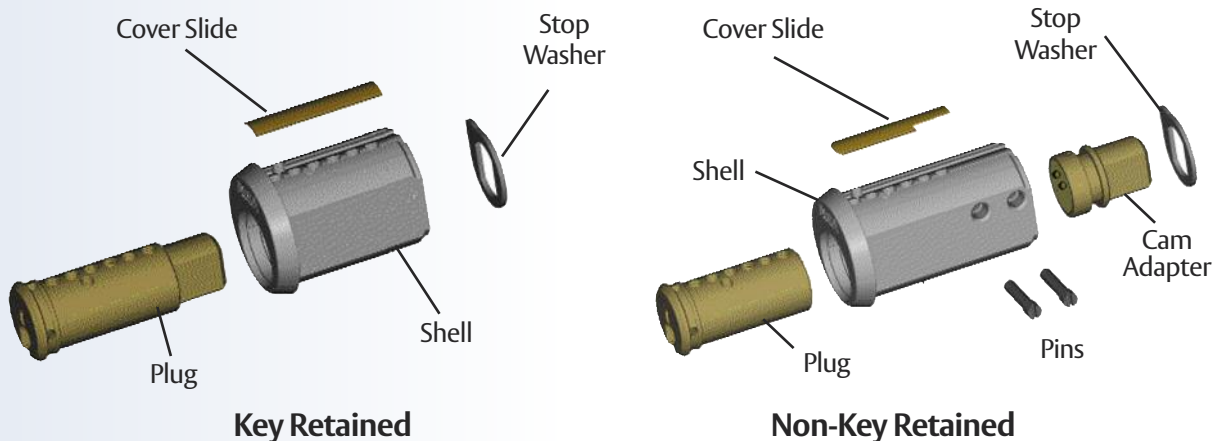
Cover Slide
Stop Washer
Shell
Plug

Key Retained

Cover Slide
Stop Washer
Shell
Cam Adapter
Plug
Pins

Non-Key Retained

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

ASSA
ASSA ABLOY
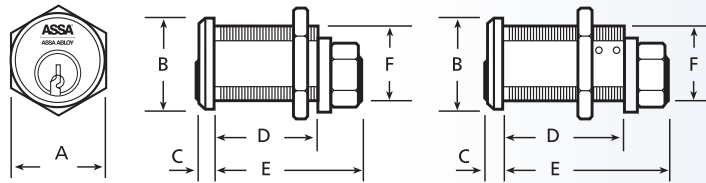
Model#	Notes	Description	A	B	C	D	E	F
Maximum +								
9871		Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860
9872		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860
Twin Maximum								
8871	CLIQ	Key Retaining Cam Lock 90°	1.025	0.980	0.110	1.070	1.490	0.860
8872		Non-Key Retaining Cam Lock 360°	1.025	0.980	0.150	1.510	1.865	0.860
Twin Exclusive								
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
Twin 6000 Classic								
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
Twin V-10								
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
Twin Pro								
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

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

Cam Locks Accessories

Fixing Plate 490825

Fixing Plate 491449

Front Plate 490821

Front Plate 491450

Dust Cap 391053

Cylinder Ring 490271

Housing Washer 490663

Front Plate 490657

Nail Plate 491299

Housing Nut 490610

Nut
490583

Nut
491439

Front Plate 497008

Lock Washer 490246
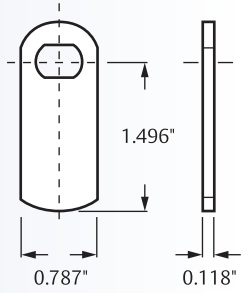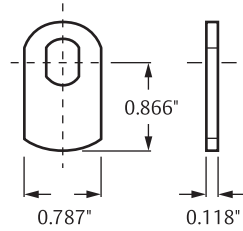
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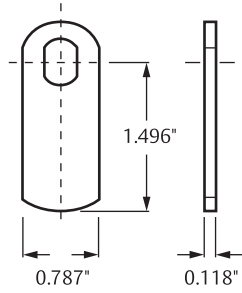
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390042

390043
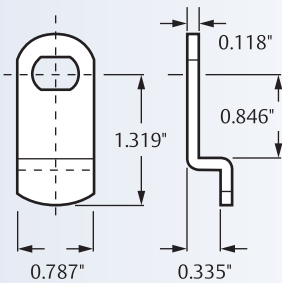
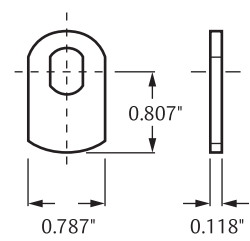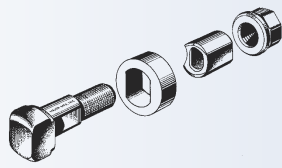390044
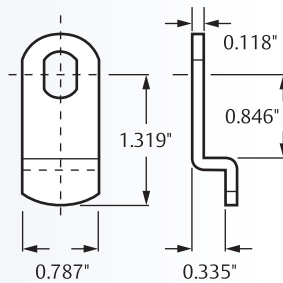
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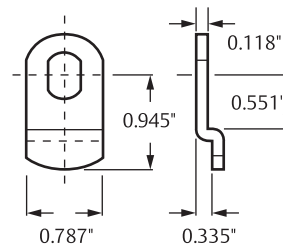
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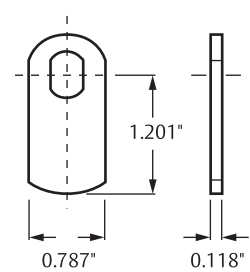
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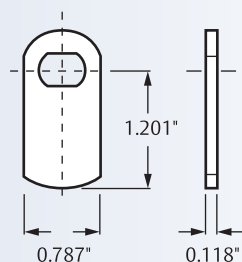
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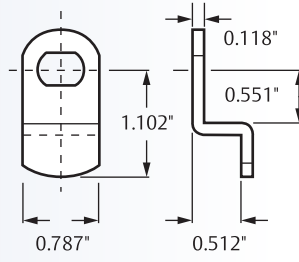
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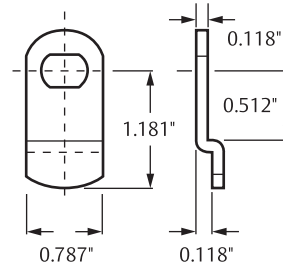
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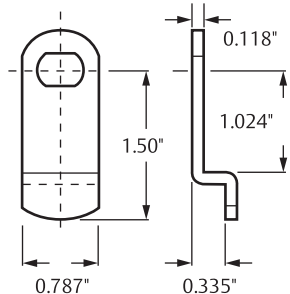
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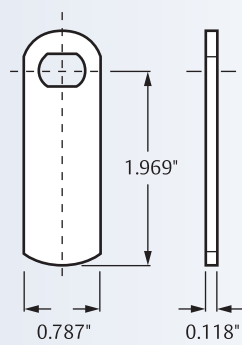
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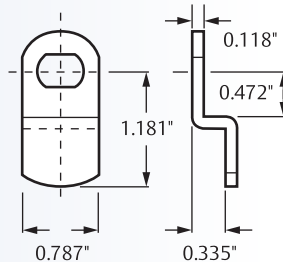
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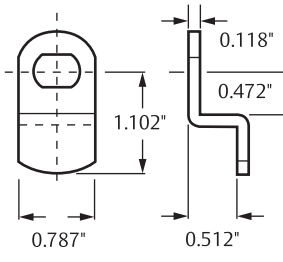
390070

490800

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

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Tools &
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490827

1.969"
0.787"
0.118"

490842

1.929"
0.787"
0.118"
0.551"
0.197"

490847

1.319"
0.787"
0.118"
0.827"
0.236"

490880

1.614"
0.787"
0.118"
0.492"
0.335"

490890

1.181"
0.787"
0.118"
0.591"
0.118"

490907

1.535"
0.787"
0.118"
0.551"
0.512"

490926

1.181"
0.787"
0.118"
0.591"
0.039"

490963

0.984"
0.787"
0.118"
0.433"
0.335"

490972

0.610"
0.787"
0.118"

490973

1.496"
0.787"
0.118"
0.591"
0.118"

491210

1.339"
0.787"
0.118"
0.630"
0.512"

491221

0.945"
0.787"
0.118"
0.551"
0.157"

491317

1.417"
0.787"
0.118"
0.394"
0.650"

491331

1.102"
0.787"
0.118"
0.551"
0.413"

491498

1.614"
0.787"
0.118"
0.591"
0.256"

CLP-D

ASSA
ASSA ABLOY

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

Benefits:

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

Technical Information:

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

Warranty:

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

Bottom Plate For Strike Plate
Strike Plate
Bottom Plate For Stop Plate
Spring & Pin
Covers
Lock Case
Press Cylinder
Screws
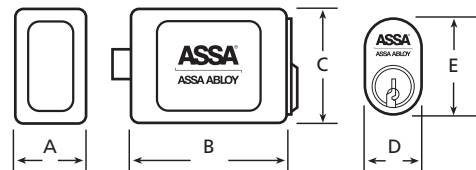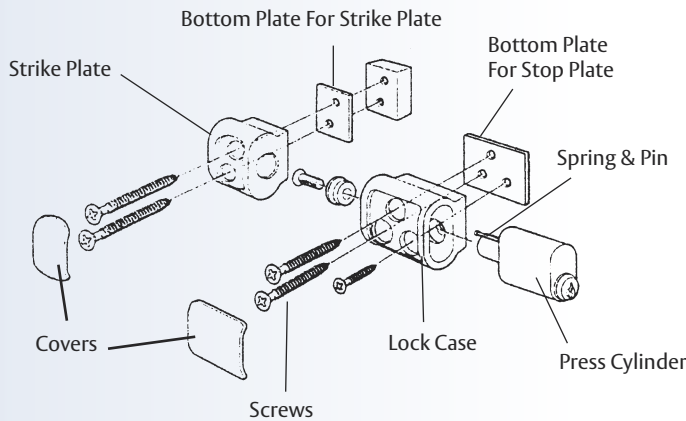
Model#	Notes	Description	A	B	C	D	E
Maximum +							
9880		Utility Lock	0.868	1.472	1.345	0.670	1.115
Twin Maximum							
8880		Utility Lock	0.868	1.472	1.345	0.670	1.115
Twin Exclusive							
E7680		Utility Lock	0.868	1.472	1.345	0.670	1.115
Twin 6000 Classic							
7680		Utility Lock	0.868	1.472	1.345	0.670	1.115
Twin V-10							
V7680		Utility Lock	0.868	1.472	1.345	0.670	1.115
Twin Pro							
6180		Utility Lock	0.868	1.472	1.345	0.670	1.115

General Info.

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ASSA®

ASSA ABLOY

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

1-3/8" Door Lock

1-3/8" Drawer Lock
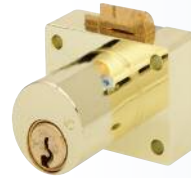
7/8" Deadlocking Latch

1-3/8" Deadlocking Latch

Benefits:

• ASSA U.L. 437 high security cylinder

• Setscrew for easy rekeying

• Two independent locking mechanisms to ensure security and optimum pick resistance

• Inactive "false" gates in side pins designed to increase pick resistance

Technical Information:

• Available with plastic spacer and strike

• Cabinet lock available with horizontal or vertical bolt and deadlatch

• Desk lock available in 7/8" and 1-3/8" mounting thickness

• Bolt material high quality brass

• Stainless steel top pins

• Bottom pins and master pins are nickel silver

Warranty:

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

Finishes:

| BHMA Symbol	U.S. Symbol	Description
626	US 26D	Satin Chrome
605	US 3	Bright Brass
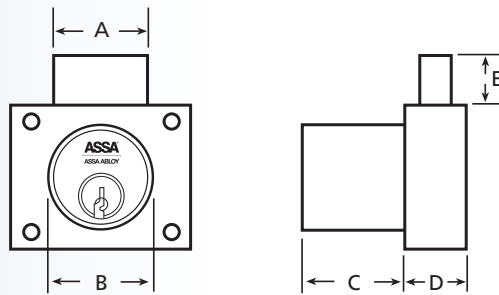
Model#	Notes	Description	A	B	C	D	E
Maximum +							
98700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965
98800AS-138	*	1-3/8" Drawer Lock			1.420	0.515	0.965
98850AS-078	*	7/8" Deadlocking Latch			1.185	0.635	0.320
98850AS-138	*	1-3/8" Deadlocking Latch			1.420	0.515	0.965
Twin Maximum							
88700AS-138	* CLIQ	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965
88800AS-138	* CLIQ	1-3/8" Drawer Lock			1.420	0.515	0.965
88850AS-078	* CLIQ	7/8" Deadlocking Latch			1.185	0.635	0.320
88850AS-138	* CLIQ	1-3/8" Deadlocking Latch			1.420	0.515	0.965
Twin Exclusive							
E700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965
E800AS-138	*	1-3/8" Drawer Lock			1.420	0.515	0.965
E850AS-078	*	7/8" Deadlocking Latch			1.185	0.635	0.320
E850AS-138	*	1-3/8" Deadlocking Latch			1.420	0.515	0.965
Twin 6000 Classic							
700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965
800AS-138	*	1-3/8" Drawer Lock			1.420	0.515	0.965
850AS-078	*	7/8" Deadlocking Latch			1.185	0.635	0.320
850AS-138	*	1-3/8" Deadlocking Latch			1.420	0.515	0.965
Twin V-10							
V700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965
V800AS-138	*	1-3/8" Drawer Lock			1.420	0.515	0.965
V850AS-078	*	7/8" Deadlocking Latch			1.185	0.635	0.320
V850AS-138	*	1-3/8" Deadlocking Latch			1.420	0.515	0.965
Twin Pro							
61700AS-138	*	1-3/8" Door Lock	1.010	1.120	1.420	0.515	0.965
61800AS-138	*	1-3/8" Drawer Lock			1.420	0.515	0.965
61850AS-078	*	7/8" Deadlocking Latch			1.185	0.635	0.320
61850AS-138	*	1-3/8" Deadlocking Latch			1.420	0.515	0.965

CLIQ – Twin Maximum available with CLIQ™ Technology, Example: <u>88700AS-138</u> x **CLIQ** x <u>626</u> x <u>Sidebar</u> x <u>Comp</u>
  * Indicate product finish, Cabinet locks are available in 605 & 626 only.

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IC Core Cyls.
KIK/KIL Cyls.
Deadbolts
Auxiliary Locks
Padlocks
Profile Cyls.
Pin Kits Tools & Accessories
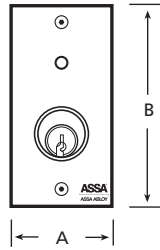Care & Maint.
Technical Specs.

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

Benefits:

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

Technical Information:

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

Warranty:

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

Finishes:

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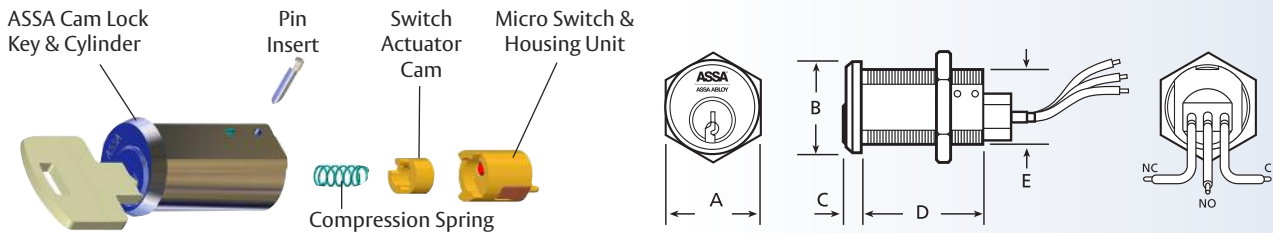
Keyswitches

Model#	Notes	Description	A	B	C	D	E
Maximum +							
9870-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860
9871-LP		Keyswitch Switch On/Off					
Twin Maximum							
8870-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860
8871-LP		Keyswitch Switch On/Off					
Twin Exclusive							
E7700-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860
E7771-LP		Keyswitch Switch On/Off					
Twin 6000 Classic							
7700-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860
7771-LP		Keyswitch Switch On/Off					
Twin V-10							
V7700-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860
V7771-LP		Keyswitch Switch On/Off					
Twin Pro							
6700-LP		Keyswitch Switch Momentary	1.025	0.980	0.110	1.510	0.860
6771-LP		Keyswitch Switch On/Off					
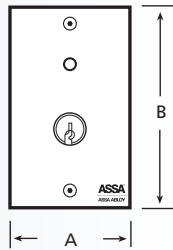
Single Gang Plate
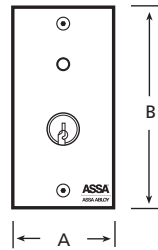
Narrow Stile Plate

Keyswitches with Single Gang Plate

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

Keyswitches with Narrow Stile Plate

Model#	Notes	Description	A	B
Maximum +				
9870-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50
9871-N		Narrow Stile Plate Bi/LED On/Off		
Twin Maximum				
8870-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50
8871-N		Narrow Stile Plate Bi/LED On/Off		
Twin Exclusive				
E7700-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50
E7771-N		Narrow Stile Plate Bi/LED On/Off		
Twin 6000 Classic				
7700-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50
7771-N		Narrow Stile Plate Bi/LED On/Off		
Twin V-10				
V7700-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50
EV7771-N		Narrow Stile Plate Bi/LED On/Off		
Twin Pro				
6700-N		Narrow Stile Plate Bi/LED Momentary	1.75	4.50
6771-N		Narrow Stile Plate Bi/LED On/Off		

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Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

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Profile Cyls.

Pin Kits Tools & Accessories

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Technical Specs.
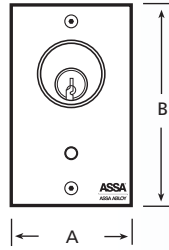
Mortise Keyswitches with Single Gang Plate

Model#	Notes	Description	A	B
Maximum +				
9851MKS	*	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50
9851MKSA	*	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch		
9851MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch		
9851MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch		
Twin Maximum				
8851MKS	* CLIQ	Single Gang Plate Mortise Bi/LED with One SPDT Momentary Switch	2.75	4.50
8851MKSA	* CLIQ	Single Gang Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch		
8851MKS2	* CLIQ	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch		
8851MKS2A	* CLIQ	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch		
Twin Exclusive				
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		
E6551MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch		
E6551MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch		
Twin 6000 Classic				
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		
6551MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch		
6551MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch		
Twin V-10				
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		
V6551MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch		
V6551MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch		
Twin Pro				
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		
6151MKS2	*	Single Gang Plate Mortise Bi/LED with One DPDT Momentary Switch		
6151MKS2A	*	Single Gang Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch		

* Mortise Keyswitch assemblies can take up to two switches and are supplied with one switch. All switches are listed on page 62.

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

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![ASSA ABLOY logo]

Mortise Keyswitches with Narrow Stile Plate

Model#	Notes	Description	A	B
Maximum +				
9851MKS-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50
9851MKSA-N	*	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch		
9851MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch		
9851MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch		
Twin Maximum				
8851MKS-N	* CLIQ	Narrow Stile Plate Mortise Bi/LED with One SPDT Momentary Switch	1.75	4.50
8851MKSA-N	* CLIQ	Narrow Stile Plate Mortise Bi/LED with One SPDT Alternate - On/Off Switch		
8851MKS2-N	* CLIQ	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch		
8851MKS2A-N	* CLIQ	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch		
Twin Exclusive				
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		
E6551MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch		
E6551MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch		
Twin 6000 Classic				
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		
6551MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch		
6551MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch		
Twin V-10				
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		
V6551MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch		
V6551MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch		
Twin Pro				
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		
6151MKS2-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Momentary Switch		
6151MKS2A-N	*	Narrow Stile Plate Mortise Bi/LED with One DPDT Alternate - On/Off Switch		

* Mortise Keyswitch assemblies can take up to two switches and are supplied with one switch. All switches are listed on page 62.

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

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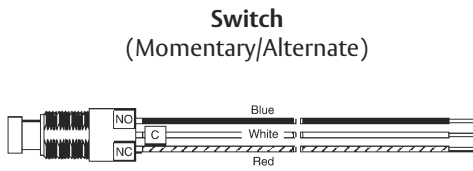
Switch
(Momentary/Alternate)
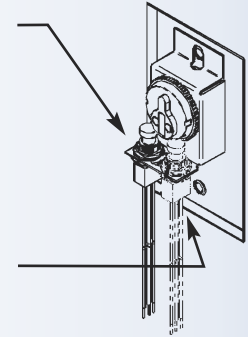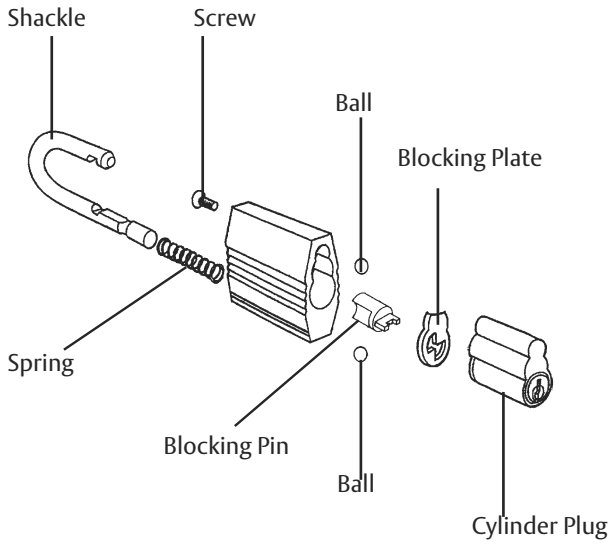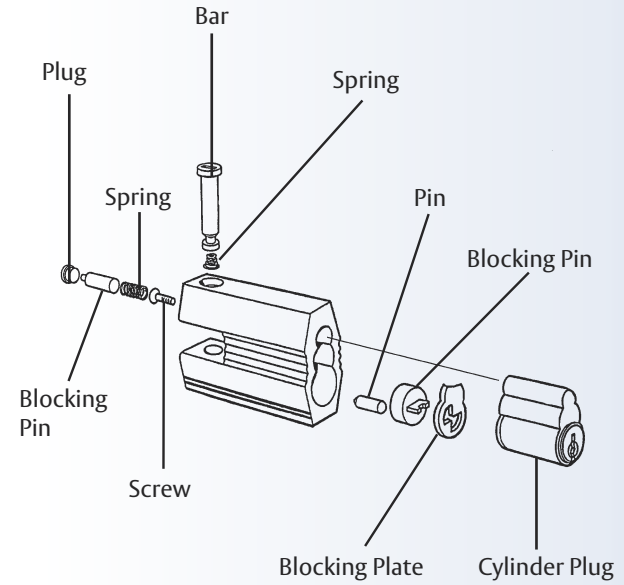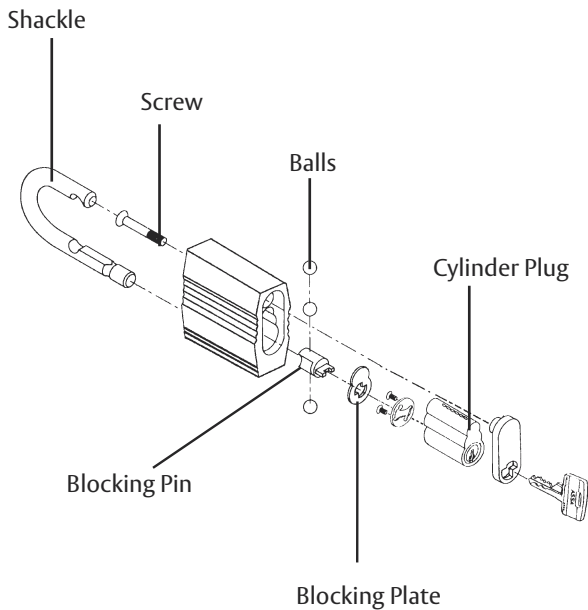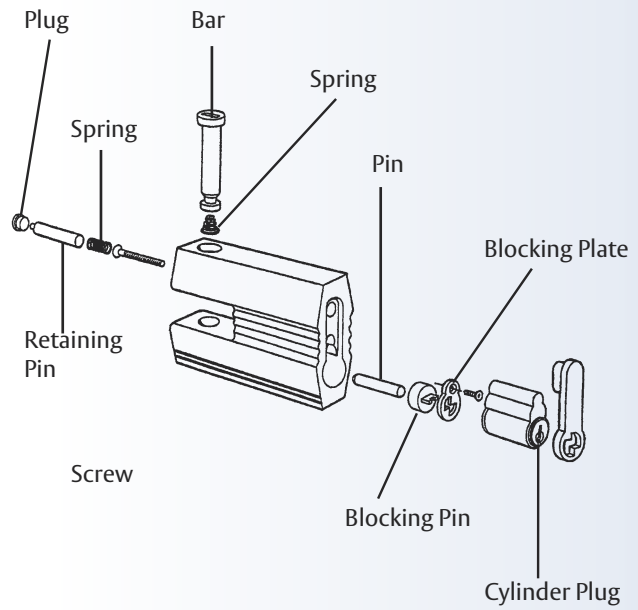
NO
NC
C
Blue
White
Red

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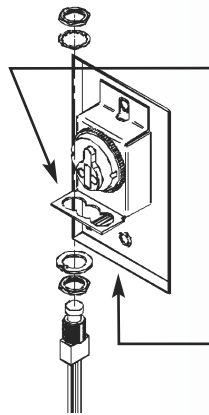
Switch Assembly

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

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

Optional Switches for Mortise Switch Plates

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

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

Benefits:

- Sturdy design ensures maximum durability
- Class 2 available in key retaining and non-key retaining, extended shackle
- Shackle made of rust resistant case hardened steel
- Hockey Puck style shackleless design provides maximum protection against hacksaw and bolt cutter attacks
- Drain holes to prevent freezing
- No external screws or rivets

Technical Information:

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

Warranty:

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

Certification:

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

ASSA

ASSA ABLOY

#2 Padlock

Shackle Screw

Ball

Blocking Plate

Spring

Blocking Pin

Ball

Cylinder Plug

#2 Shrouded Padlock

Bar

Plug Spring

Spring Pin

Blocking Pin

Blocking
Pin

Screw

Blocking Plate Cylinder Plug

#3 Padlock

Shackle

Screw

Balls

Cylinder Plug

Blocking Pin

Blocking Plate

#4-5 Padlock

Plug Bar

Spring

Spring Pin

Blocking Plate

Retaining
Pin

Screw

Blocking Pin

Cylinder Plug

![ASSA ASSA ABLOY logo]

| | #2 | #2 Extended Shackle | #2 Shrouded | #3 | #3 Extended Shackle | #4 | #4-5 Shrouded |
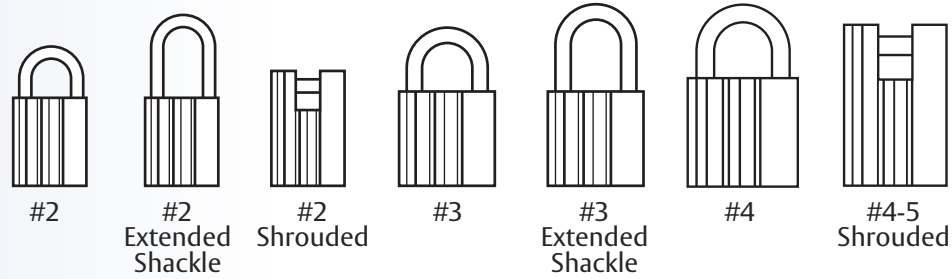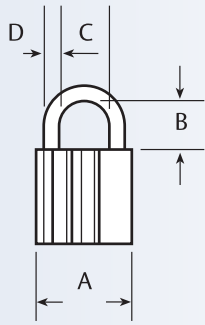
Model#	Notes	Description	A	B	C	D
Maximum +						
98190B		No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315
98190LB		No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
98190SB		No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315
98191B		No.2 Key-Retaining	1.900	1.100	0.940	0.315
98191LB		No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
98391B		No.3 Key-Retaining	2.450	1.235	1.295	0.395
98391LB		No.3 Key-Retaining Ext. Shackle	2.450	1.875	1.295	0.395
98391SB		No.3 Key Ret. w/Shrouded Shackle	2.450	0.710	0.590	0.395
98491B		No.4 Key-Retaining	3.150	0.985	0.830	0.550
98591SB		No.5 Key Ret. w/Shrouded Shackle	3.150	0.985	0.830	0.550
Maximum + Restricted Padlocks						
R28190B		No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315
R28190LB		No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
R28191B		No.2 Key-Retaining	1.900	1.100	0.940	0.315
R28191LB		No.2 Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
R28391B		No.3 Key-Retaining	2.450	1.235	1.295	0.395
Twin Maximum						
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
88391LB	CLIQ	No.3 Key-Retaining Ext. Shackle	2.450	1.875	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
Twin Exclusive						
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
E65391LB		No.3 Key-Retaining Ext. Shackle	2.450	1.875	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

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

ASSA®

ASSA ABLOY

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

#2 | #2 Extended Shackle | #2 Shrouded | #3 | #3 Extended Shackle | #4 | #4-5 Shrouded
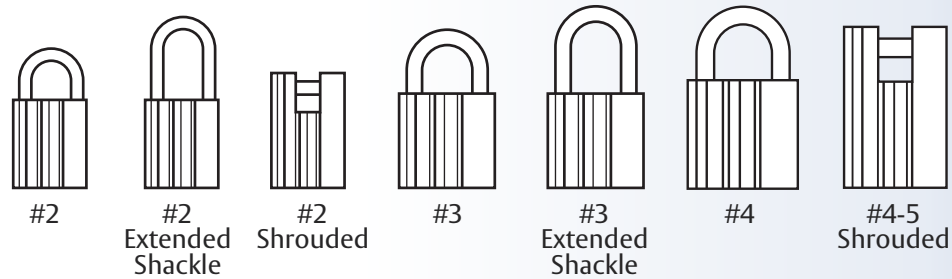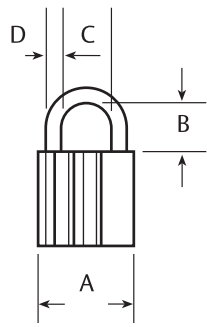
Model#	Notes	Description	A	B	C	D
Twin 6000 Classic						
65190B		No.2 Non-Key-Retaining	1.900	1.100	0.940	0.315
65190LB		No.2 Non-Key-Retaining Ext. Shackle	1.900	2.035	0.940	0.315
65190SB		No.2 Non-Key-Ret. w/Shrouded Shackle	1.900	0.535	0.475	0.315
65191B		No.2 Key-Retaining	1.900	1.100	0.940	0.315
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
65391LB		No.3 Key-Retaining Ext. Shackle	2.450	1.875	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
Twin V-10						
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
V65391LB		No.3 Key-Retaining Ext. Shackle	2.450	1.875	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
600 Series Classic						
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
Twin Pro						
61190B		No.2 Non-Key-Retaining	1.900	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
61391LB		No.3 Key-Retaining Ext. Shackle	2.450	1.875	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

Padlock Cylinders Only

Model#	Notes	Description
Maximum +		
98911		Padlock Cylinder No. 2, 3, 4-5
Twin Maximum		
88911	CLIQ	Padlock Cylinder No. 2, 3, 4-5
Twin Exclusive		
E65911		Padlock Cylinder No. 2, 3, 4-5
Twin 6000 Classic		
65911		Padlock Cylinder No. 2, 3, 4-5
Twin V-10		
V65911		Padlock Cylinder No. 2, 3, 4-5
Twin Pro		
61911		Padlock Cylinder No. 2, 3, 4-5
600 Series Classic		
6911		Padlock Cylinder No. 2, 3, 4-5

CLIQ – Twin Maximum available with CLIQ™ Technology. Example: <u>88191B</u> x **CLIQ** x <u>626</u> x <u>Sidebar</u> x <u>Comp</u>
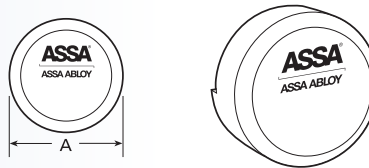
"Hockey Puck" Shackle Less Padlock

Model#	Notes	Description	A
Maximum +			
9840		Hockey Puck Style Padlock	2.875
Twin Maximum			
8840		Hockey Puck Style Padlock	2.875
Twin Exclusive			
E6540		Hockey Puck Style Padlock	2.875
Twin V-10			
V6540		Hockey Puck Style Padlock	2.875
Twin Pro			
6140		Hockey Puck Style Padlock	2.875

"Hockey Puck" Cylinders Only

Model#	Notes	Description
Maximum +		
98411		Hockey Puck Cylinder
Twin Maximum		
88411		Hockey Puck Cylinder
Twin Exclusive		
E65411		Hockey Puck Cylinder
Twin V-10		
V65411		Hockey Puck Cylinder
Twin Pro		
61411		Hockey Puck Cylinder

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.
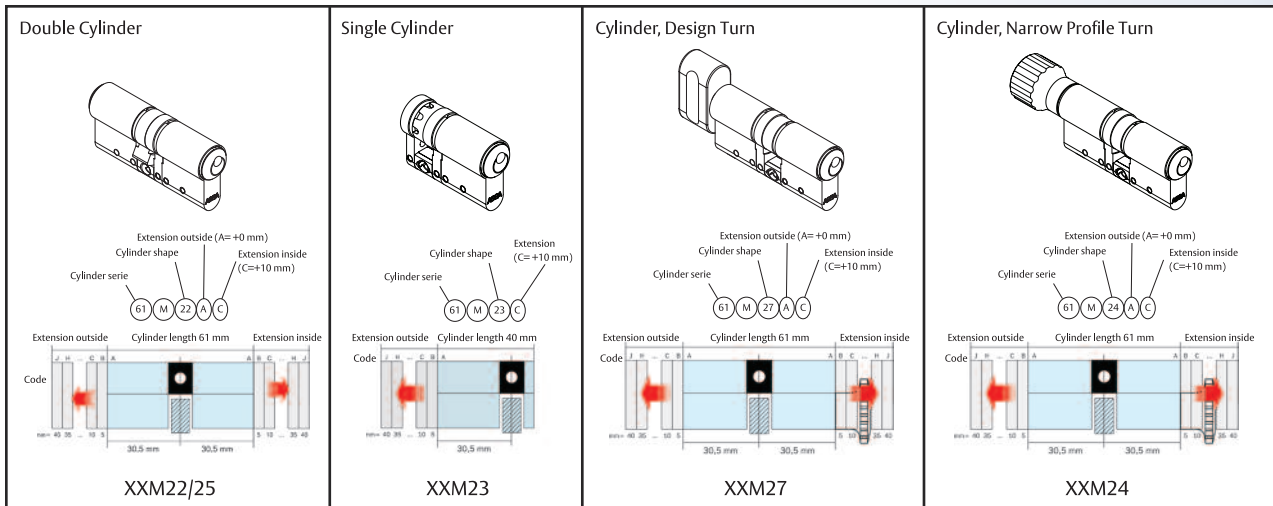
IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.
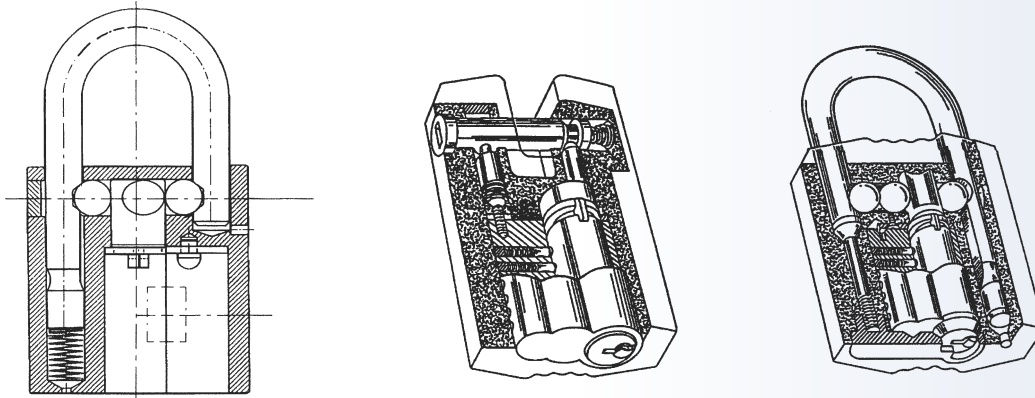
Padlock Component Parts

Model#	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 Conversion Kit (Includes 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
089280	No.3 Extended Shackle
353969	Twin V-10 Padlock Cylinder Plug
367018	Twin 6000 Classic Padlock Cylinder Plug (Specify Profile 50,52,61,62)
356071	Twin Exclusive / 6000 Classic Padlock Cylinder Plug (Specify Profile 51,851)
816068	Maximum+ / Twin Maximum Padlock Cylinder Plug (Specify Profile 0A7, 0M7)

General
Info.

Electronic
Access
Control

Keys &
Keying

Mortise
Cyls.

Rim
Cyls.

Mogul
Cyls.

IC Core
Cyls.

KIK/KIL
Cyls.

Deadbolts

Auxiliary
Locks

Padlocks

Profile
Cyls.

Pin Kits
Tools &
Accessories

Care &
Maint.

Technical
Specs.

![ASSA ABLOY logo]

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

M27

M24

M22

M23

Scandinavian
Oval Cylinder

Benefits:

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

Technical Information:

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

Warranty:

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

Finishes:

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

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

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

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

Outside   Inside

Cylinder Accessories

Cylinder Accessories
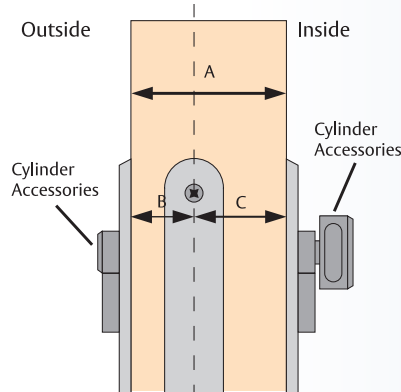
Table Measurement

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

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

M20 Din Euro Profile Cylinders

Model#	Notes	Description
Maximum +		
98M27		Large Thumbturn Single Cylinder
98M24		Small Thumbturn Single Cylinder
98M22		Double Cylinder
98M23		Single Cylinder No Thumbturn
Twin Maximum		
88M27	CLIQ	Large Thumbturn Single Cylinder
88M24	CLIQ	Small Thumbturn Single Cylinder
88M22	CLIQ	Double Cylinder
88M23	CLIQ	Single Cylinder No Thumbturn
Twin V-10		
V65M27		Large Thumbturn Single Cylinder
V65M24		Small Thumbturn Single Cylinder
V65M22		Double Cylinder
V65M23		Single Cylinder No Thumbturn
Twin 6000 Classic		
65M27		Large Thumbturn Single Cylinder
65M24		Small Thumbturn Single Cylinder
65M22		Double Cylinder
65M23		Single Cylinder No Thumbturn

CLIQ – Twin Maximum available with CLIQ™ Technology. Example: 88M27 x **CLIQ** x Comp

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

ASSA
ASSA ABLOY

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

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

6501   6502   6503
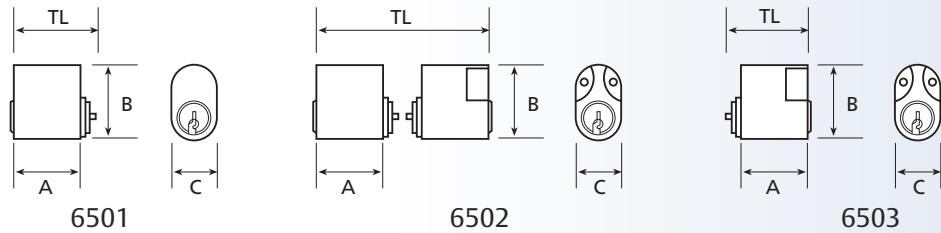
Oval Cylinders

Model#	Notes	Description	TL	A	B	C
Maximum +						
9801		Oval, Outside	1.577	1.236	1.376	0.784
9801L		Oval, Outside for 505				
9802		Oval, Double	N/A			
9803		Oval, Inside	1.577			
Twin Maximum						
8801	CLIQ	Oval, Outside	1.577	1.236	1.376	0.784
8801L	CLIQ	Oval, Outside for 505				
8802	CLIQ	Oval, Double	N/A			
8803	CLIQ	Oval, Inside	1.577			
Twin Exclusive						
E6501		Oval, Outside	1.577	1.236	1.376	0.784
E6501L		Oval, Outside for 505				
E6502		Oval, Double	N/A			
E6503		Oval, Inside	1.577			
Twin 6000 Classic						
6501		Oval, Outside	1.577	1.236	1.376	0.784
6501L		Oval, Outside for 505				
6502		Oval, Double	N/A			
6503		Oval, Inside	1.577			
Twin V-10						
V6501		Oval, Outside	1.577	1.236	1.376	0.784
V6501L		Oval, Outside for 505				
V6502		Oval, Double	N/A			
V6503		Oval, Inside	1.577			
600 Series Classic						
601		Oval, Outside	1.577	1.236	1.376	0.784
601L		Oval, Outside for 505				
602		Oval, Double	N/A			
603		Oval, Inside	1.577			

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

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

Screws

Cylinder
Plug & Shell

Cam Piece
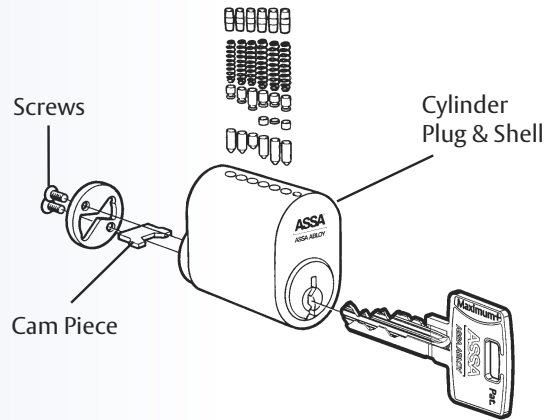
Oval Cylinder Parts

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

Oval Cylinder Adapters

Model#	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)

† – Specify Profile

General Info.

Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

ASSA
®

ASSA ABLOY

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

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

MPK Master Pin Kit

Item Number	Description	Quantity
353838	Left Side Pin V-10	50
359654	Twin-Max Sidepin Left	
362808	Corbin RC Cover Strip	10
806263	Db Plastic Thumbturn Guide	2
806346	Deadbolt Top Closing Screws	25
807164	V-10/T Pro Spring For Side Bar	100
807165	V-10/T Pro Sidepin Springs	
807401	RC C-Ring	4
807402	RC Cover Slide	15
807403	RC Cam Adapter	2
807404	RC Wave Washer	10
807405	RC Rubber Stop	6
809312	IC Core Plug Spacer Washer	
809314	Master Pin 9, IC Core Cylinders	100
809315	Master Pin 10, IC Core Cylinders	
809316	Master Pin 11, IC Core Cylinders	
809317	Master Pin 12, IC Core Cylinders	
809318	Master Pin 13, IC Core Cylinders	
809319	Master Pin 14, IC Core Cylinders	
809320	Master Pin 15, IC Core Cylinders	
809321	Master Pin 16, IC Core Cylinders	
809322	Master Pin 17, IC Core Cylinders	
809328	Top Pin 2, IC Core Cylinders	
809329	Top Pin 3, IC Core Cylinders	

MPK Master Pin Kit (Continued)

Item Number	Description	Quantity
809330	Top Pin 4, IC Core Cylinders	100
809331	Top Pin 5, IC Core Cylinders	
809332	Top Pin 6, IC Core Cylinders	
809333	Top Pin 7, IC Core Cylinders	
809334	Top Pin 8, IC Core Cylinders	
809335	Top Pin 9, IC Core Cylinders	
809336	Top Pin 10, IC Core Cylinders	
809340	IC Core Chamber Springs (1-4)	
816080	Twin-Pro Sidepin	50
867015	Side Pin, ASSA Twin	
867065	600/Twin Pin Chamber Springs	100
807261	Top Pin A, Twin & 600	
807262	Top Pin B, Twin & 600	
807263	Top Pin C, Twin & 600	
807264	Top Pin D, Twin & 600	
867070	Master Pin 1, Twin & 600	
867071	Master Pin 2, Twin & 600	
867072	Master Pin 3, Twin & 600	
867073	Master Pin 4, Twin & 600	
867074	Master Pin 5, Twin & 600	
867075	Master Pin 6, Twin & 600	
867076	Master Pin 7, Twin & 600	
867077	Master Pin 8, Twin & 600	
867078	Bottom Pin 1, Twin & 600	
867079	Bottom Pin 2, Twin & 600	
867080	Bottom Pin 3, Twin & 600	
867081	Bottom Pin 4, Twin & 600	
867082	Bottom Pin 5, Twin & 600	
867083	Bottom Pin 6, Twin & 600	
867084	Bottom Pin 7, Twin & 600	
867085	Bottom Pin 8, Twin & 600	
867086	Bottom Pin 9, Twin & 600	
867087	Twin Spring For Side Pin	
867088	Twin Spring For Side Bar	
867090	Std Tail Piece Screw Twin/600	25
867445	Cam, Adams Rite 600/Twin	2
867446	Cam, Clover Leaf 600/Twin	
867447	Cam, Beaver Tail 600/Twin	
867452	Cam, Sargent 600/Twin	
867453	Cam, Schlage	
868141	M/R Cover Strip 600/Twin	50
868624	Rollpin Corbin/4—Sargent/2	10
868958	Schlage Plug Cap	4
868959	Schl KIK Plug Cap Sprg-Deleted	
868960	Schlage KIK Plug Cap Pin	
872610	Cam, Standard 600/Twin	2
900257	Yale Tailpiece Roll Pin	10

PK-1 Pin Kit

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

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Mortise Cyls.

Rim Cyls.

Mogul Cyls.
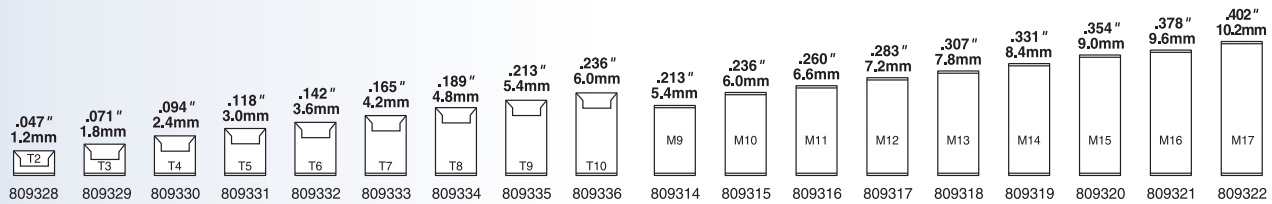
IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

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PK-IC Interchangeable Core Pin Kit

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

PK-Cam Pin Kit

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

ASSA
ASSA ABLOY

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Cyls.

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PKMM Pin Kit

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

![ASSA ABLOY logo]

Pin size diagrams across top:

.047" 1.2mm T2 809328	.071" 1.8mm T3 809329	.094" 2.4mm T4 809330	.118" 3.0mm T5 809331	.142" 3.6mm T6 809332	.165" 4.2mm T7 809333	.189" 4.8mm T8 809334	.213" 5.4mm T9 809335	.236" 6.0mm T10 809336	.213" 5.4mm M9 809314	.236" 6.0mm M10 809315	.260" 6.6mm M11 809316	.283" 7.2mm M12 809317	.307" 7.8mm M13 809318	.331" 8.4mm M14 809319	.354" 9.0mm M15 809320	.378" 9.6mm M16 809321	.402" 10.2mm M17 809322

Interchangeable Core Parts

Model#	Notes	Description	Pkg. Qty.
354023		Control Sleeve	
359058		Maximum+ and Twin Maximum Inner Plug (Specify 0A7, 0M7)	
353213	*	IC Inner Plug (Specify Profile 51, 851)	
353968	*	V-10 IC Inner Plug	
807401		IC C-Ring	
807402		IC& Cam Lock 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 Core Chamber Spring (1st Four Chambers)	100
809312		IC Plug Spacer Washer	

Top Pins for Interchangeable Core and Cam Locks Cylinders Only

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

Master Pins (Build Up) for Interchangeable Core Cylinders Only

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

*Indicate product finish.

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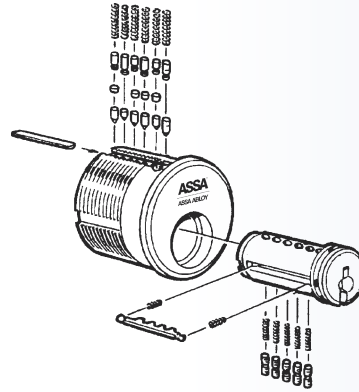
Pins, Spring & Closers

Model#	Notes	Description	Pkg. Qty.
807261		Driver Pin 1-2 (A)	100
807262		Driver Pin 3-4 (B)	
807263		Driver Pin 5-6 (C)	
807264		Driver Pin 7-8-9 (D)	
867070		Master Pin 1	
867071		Master Pin 2	
867072		Master Pin 3	
867073		Master Pin 4	
867074		Master Pin 5	
867075		Master Pin 6	
867076		Master Pin 7	
867077		Master Pin 8	
867078		Bottom Pin 1	
867079		Bottom Pin 2	
867080		Bottom Pin 3	
867081		Bottom Pin 4	
867082		Bottom Pin 5	
867083		Bottom Pin 6	
867084		Bottom Pin 7	
867085		Bottom Pin 8	
867086		Bottom Pin 9	
867065		Cylinder Springs	
267008	*	Sidebar	25
867015		Twin Side Pins	50
353838		V-10 Left Hand Side Pins	
359654		Maximum+ / Twin Maximum Left Hand Side Pins	
807164		Maximum+ / Twin Maximum / V-10 Sidebar Springs	100
807165		Maximum+ / Twin Maximum / V-10 Sidepin Springs	
867087		Twin Sidepin Springs	
867088		Twin Sidebar Springs	
868141		Pin Chamber Closing Strips, Mort, Rim, KIK	
867093		Closing Plugs, Oval Cylinders	
806346		Pin Chamber Closing Screws - Jumbo, Mogul, Dbolt	

*Specify Side Code

ASSA®

ASSA ABLOY

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

Tailpieces

R-A   R-B

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

H/V

#9 #10 #11 #12 #13 #14 #15

L
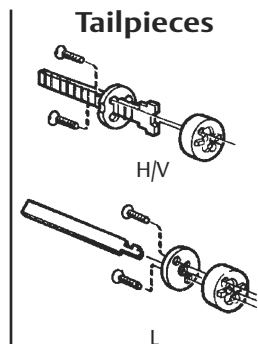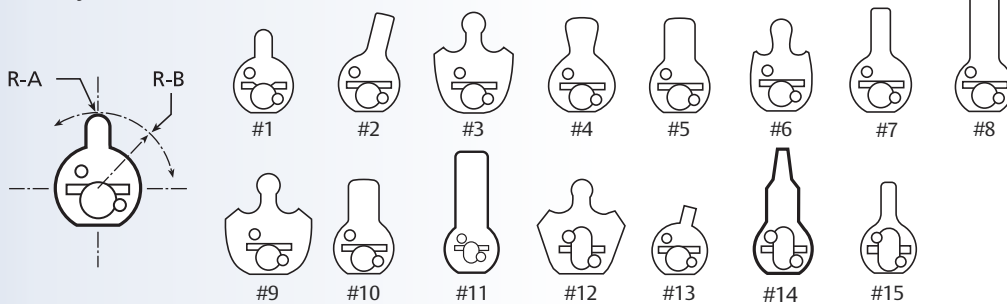
Cams & Tailpieces

Model#	Description	R-A	R-B	Pkg. Qty.
867445	#1 Adams Rite Cam	0.118	0.555	
867452	#2 Sargent Cam	N/A	0.709	
867446	#3 Corbin Clover Leaf Cam	0.114	0.602	
867447	#4 Corbin Beaver Tail Cam	N/A	0.732	
872610	#5 Yale/Standard Cam	N/A	0.709	
867453	#6 Schlage "L" Cam	0.124	0.516	
805412	#7 Segal Type Cam	N/A	0.779	
806471	#8 Jumbo Corbin Cam	N/A	0.914	10
907306	#9 Best 30H Series	0.114	0.602	
353445	#10 Airteq/Norment Cam	N/A	0.787	
809337	#11 Airteq/Norment Mogul Cam	N/A	1.165	
354945	#12 Corbin Jumbo Clover Leaf Cam	0.114	0.828	
355849	#13 Sargent Short Cam	N/A	0.515	
355850	#14 Sargent Mogul	N/A	1.043	
872612	#15 Yale Replacement Cam	0.308	0.742	
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			
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			
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 (7 Line Lever)			
867455	Sargent RC Tailpiece (10 Line Lever)			
867456	Sargent RC Tailpiece (11 Line Lever)			

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ASSA

ASSA ABLOY

Positive Stop
Code Machine
PS6000T
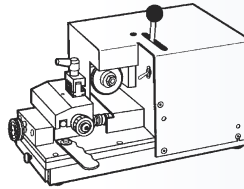
Pin Kits & Tools

Model#	Description
PK-1	Pin Kit No.1 Full-Size Standard 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
869018	Twin Series Cutter Wheel for HPC Code Max CM90Z/.032"
869017	Twin Series 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
807718	ASSA Lock Spray Lubricant
816296	ASSA Lock Spray Cleaner/De-Icer
PL872630	ASSA Maximum+ Cutaway
PS-6000T	Positive Stop Code Key Machine
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
CRRCTOOL	Shearing Tool for Corbin Russwin style Interchangeable Core
KD-98	ASSA Key Gauge
907044	ASSA Plug Follower
907046	ASSA Screwdriver

ASSA products are the highest quality cylinder products on the market today. The following information for maintaining proper condition of your ASSA cylinders and keys will insure the best performance for you and your clients.
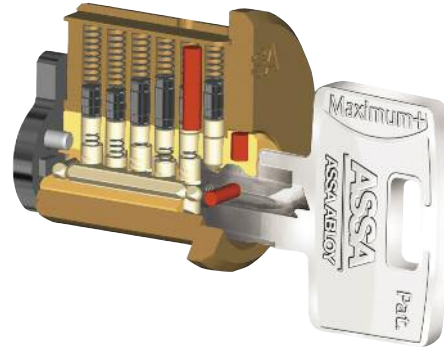
Make sure that all key cutting equipment is properly calibrated in accordance to ASSA manufacturer specification. This is the first consideration in the proper performance of ASSA cylinders. Regularly inspect keys in use and replace any keys that show physical wear immediately.

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

- **Do not use graphite or silicone lubricants. Use only ASSA approved lubricants.**

- **Do not expose ASSA cylinders to chemical wash.**

- **Do not paint any cylinder surfaces.**

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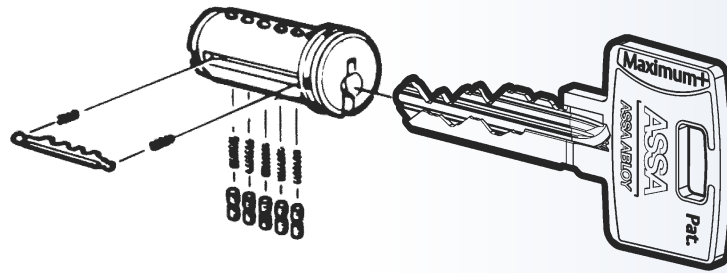
Basic Cylinder Assembly

Step One. Invert the cylinder plug and place the side pin springs in the side pin holes. Insert the side pins.
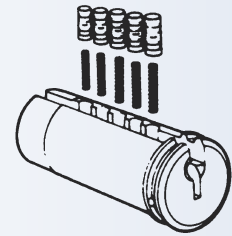
NOTE! The side pins are all identical. It is imperative that the springs locate correctly or the cylinder will malfunction.

Step Two. With the cylinder still inverted, insert a key with the correct side code to hold the side pins in place.
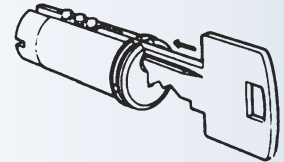
Step Three. Position the short sidebar springs at each end of the sidebar slot.

NOTE! It is imperative that the springs are located in the prepared holes.
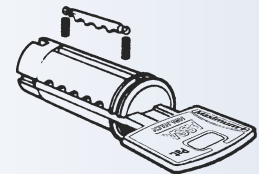
Step Four. Lay the sidebar in the slot so that the fences correspond to the opening gates in the side pins. It should now be possible to press the sidebar down in its slot so that it is flush with the outer face of the cylinder plug.
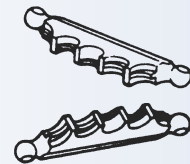
NOTE! The key should remain in the cylinder plug during this operation.

Step Five. Place the cylinder plug in the cylinder house. If the sidebar is fitted correctly, the cylinder plug can now be turned within the shell. Hold the cylinder plug in place when withdrawing the key.
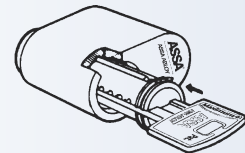
Step Six. Fit the tailpiece and secure.
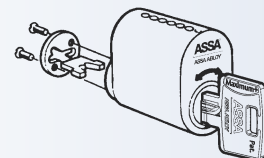
Note: Cylinder plug diameter is .510".

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Shoulder Stop | Key Bow

P1 P2 P3 P4 P5 P6

90°

B | C

A | D

Key Tip | P1 P2 P3 P4 P5 | Key Back

Maximum+

ASSA ABLOY

ASSA

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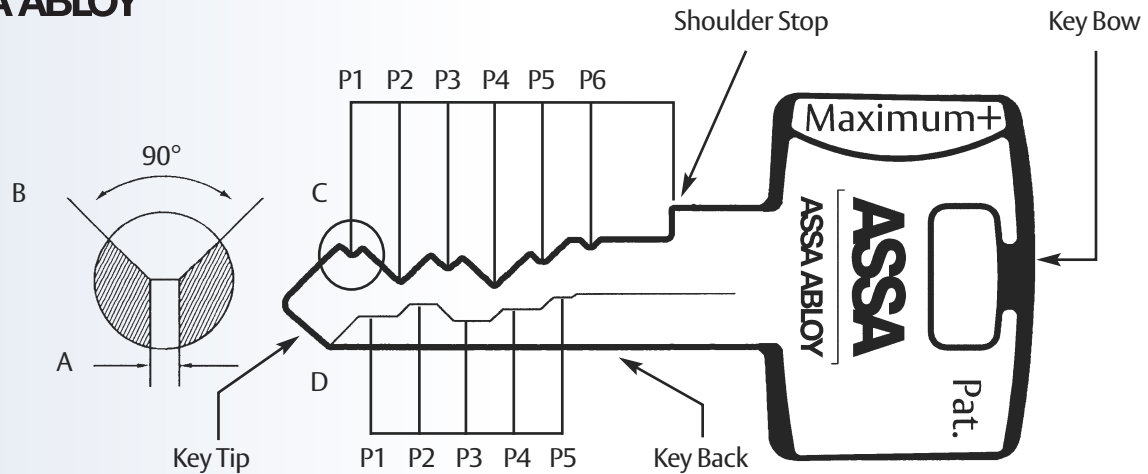
A. 0.8mm (0.032") wide flat base.

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 Specification (MACS) = 5.

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

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

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Technical Specs.

Ordering:

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

A. Side bar Code is cut at ASSA Factory only. Key blanks are provided as shown.
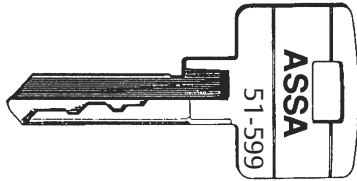
B. Side bar code/profile can be identified on key bow. Example: for Twin 6000 Series, 51-599; there are 5 different profiles in the ASSA Twin 6000 Series which are; 50, 51, 52, 61, and 62.

Key Stamping:

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

| Maximum+ Profile 0A7 | Twin Maximum Profile 0M7 | Twin Pro Profile 0P4 | Twin Exclusive Profile 851 | Twin 6000 Profiles 50, 51, 52, 61, 62 | Twin V-10 Profile 95 |
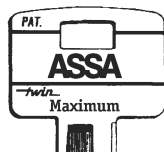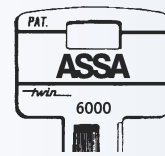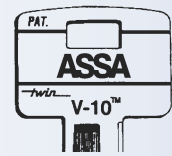
Key Cutting:

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

ASSA Recommended Code Machines:

- ASSA PS-6000T (Made by Framon)
- Any Framon Machine designed to cut ASSA Twin and Max+ Series keys
- Silca Ultra Code
- HPC Code Max
- ITL 9000 Series Code Machines

ASSA Twin Series Pinning

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

Bottom Pin Part Numbers & Lengths		
Pin Size	Part Number	Length
#1	867078	0.3503"
#2	867079	0.3267"
#3	867080	0.3031"
#4	867081	0.2795"
#5	867082	0.2559"
#6	867083	0.2322"
#7	867084	0.2086"
#8	867085	0.1850"
#9	867086	0.1614"
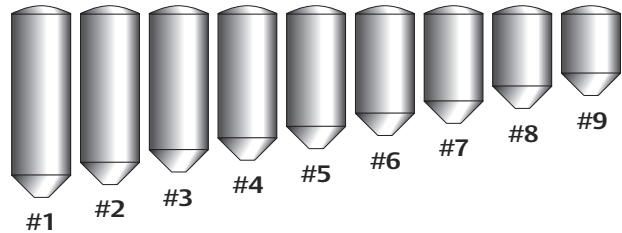
Pins for ASSA cylinders do not taper to a ball nose radius like most pin tumbler pins, but have a flat tip that is 0.020" in diameter. This provides more reliable contact between tumbler and key

Master Pin Part Numbers & Lengths		
Pin Size	Part Number	Length
#1	867070	0.0236"
#2	867071	0.0472"
#3	867072	0.0708"
#4	867073	0.0944"
#5	867074	0.1181"
#6	867075	0.1417"
#7	867076	0.1652"
#8	867077	0.1889"
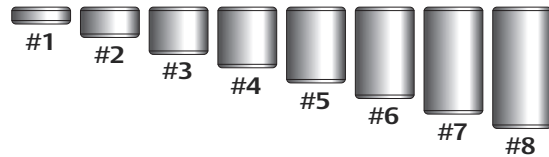
ASSA Twin master pins are engineered for single step \masterkeying, creating the largest master key capabilities of any pin tumbler lock in production.

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

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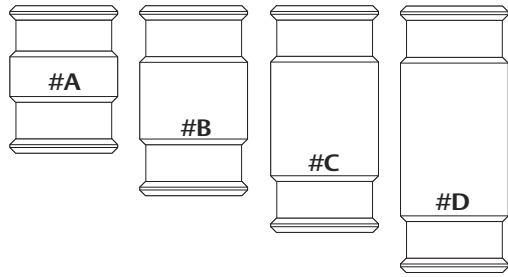
Top Pin Part Numbers & Uses		
Driver	**Part Number**	**Stack Height**
A	807261	1 or 2
B	807262	3 or 4
C	807263	5 or 6
D	807264	7 or 8 or 9

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

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

Top Pins/Spool Drivers	
Height	**Width**
A – 4 mm/0.15 inch	2.9 mm/0.114 inch
B – 5 mm/0.19 inch	2.9 mm/0.114 inch
C – 6 mm/0.23 inch	2.9 mm/0.114 inch
D – 7 mm/0.27 inch	2.9 mm/0.114 inch
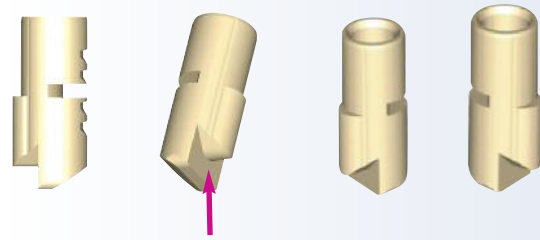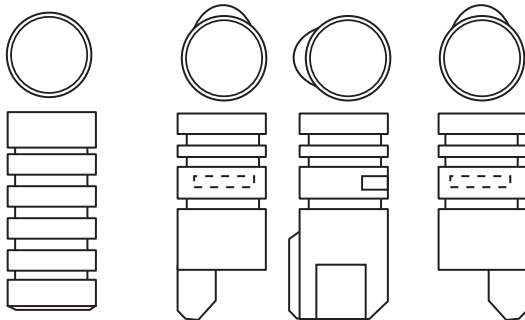
Twin 6000 & Twin Exclusive Side Pin

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

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

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

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

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

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

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

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

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

Side Bar Operation

Side Pin   Counter-Milling

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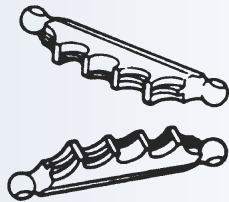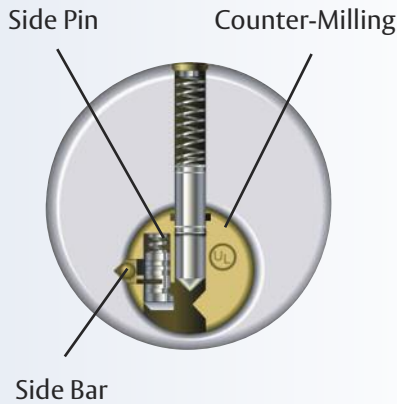
There are five side pins in every ASSA Twin and Maximum+ Series cylinder. In the Twin 6000 and Twin Exclusive, there is only the one type of side pin and for the Twin V-10 Series there are left-hand and right-hand side pins. ASSA Twin Pro has yet another single type of side pin. For Twin Maximum and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

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

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

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

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

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

Note: Plug diameter is .510".

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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 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 1

TMK	2	5	8	3	6	9
	4	7	0	5	8	1
K	6	9	2	7	0	3
B	8	1	4	9	2	5
A	0	3	6	1	4	7

64 pages   64 changes per page

Figure 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.

Figure 2

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

Calculating Pin Stacks

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

Example:

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

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

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

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

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ASSA C-4 CLIQ & CLIQ Remote

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

For more detailed information please see pages 6 & 7 or visit our website **www.assalock.com** and select the "Products" tab.

Considerations for Master Key System design

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

P6 P5 P4 P3 P2 P1

Black power and data transfer strip
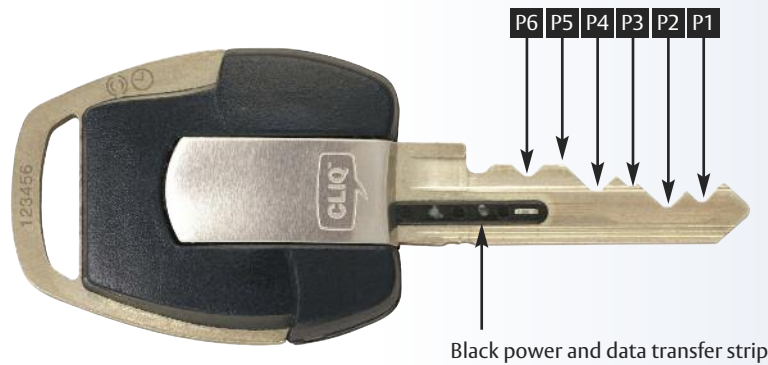
Servicing ASSA CLIQ cylinders

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

Lubrication

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

The ASSA Lock Spray is conductive and the formula resists collection of dust and dirt. Any other lubricant used can mask the contact read for power and data transfer.
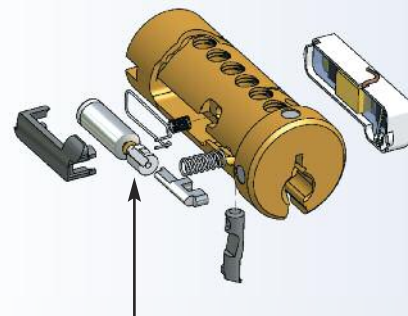
A motor drives the electromechanical blocking element that locks the side rail.

![ASSA ABLOY logo]

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

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

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

VALUES

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

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

$$TP = C + 1$$

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

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

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

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

CTRL	216499
AA	495799
1AA	642799

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

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

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

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

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

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

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

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

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

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

2) The last two cut depths of the CTRL key should be the same as the TMK.

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

ASSA Sargent Large Format Interchangeable Core

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

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

CTRL	216969
AA	495769
1AA	642169

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

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

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

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

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

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

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

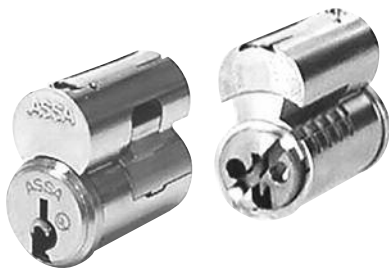|						
TP	3	2	7	10	C	D
BUP	10	11	4	-	-	-
MP	2	5	3	6	-	-
BP	6	9	5	7	6	9

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

If you are generating your own key systems, there are some new combination selection rules which should be followed for the TMK and the CTRL (Control Key).
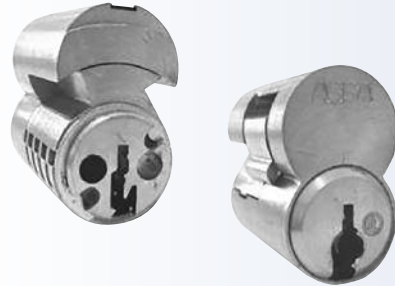
1) The TMK should have a number 9 depth as one of the first four cut positions and the corresponding position in the CTRL key should be a number 1 depth.

2) The last two cut depths of the CTRL key should be the same as the TMK.

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

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KIK/KIL Cyls.

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ASSA Sheering Tool for Sargent and Corbin Russwin LFIC Original Housings

Sargent 6 Pin LFIC   Corbin Russwin 6 Pin LFIC

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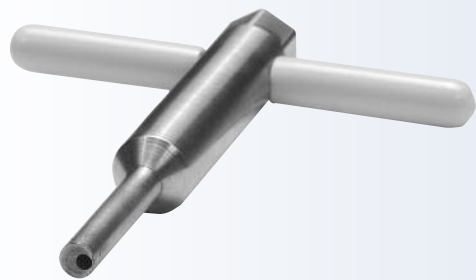
Model #   **Description**
CRRCTOOL   Shearing Tool for Corbin Russwin style IC
SGTRCTOOL   Shearing Tool for Sargent style IC

ASSA Schlage Removable Core

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

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

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

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

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

Calculating the loads is as follows:

The Top Pin is equal to the control cut plus 6

$$TP = CTRL + 6$$

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

$$BUP = 2 + (Operating\ Cut - CTRL\ Cut)$$
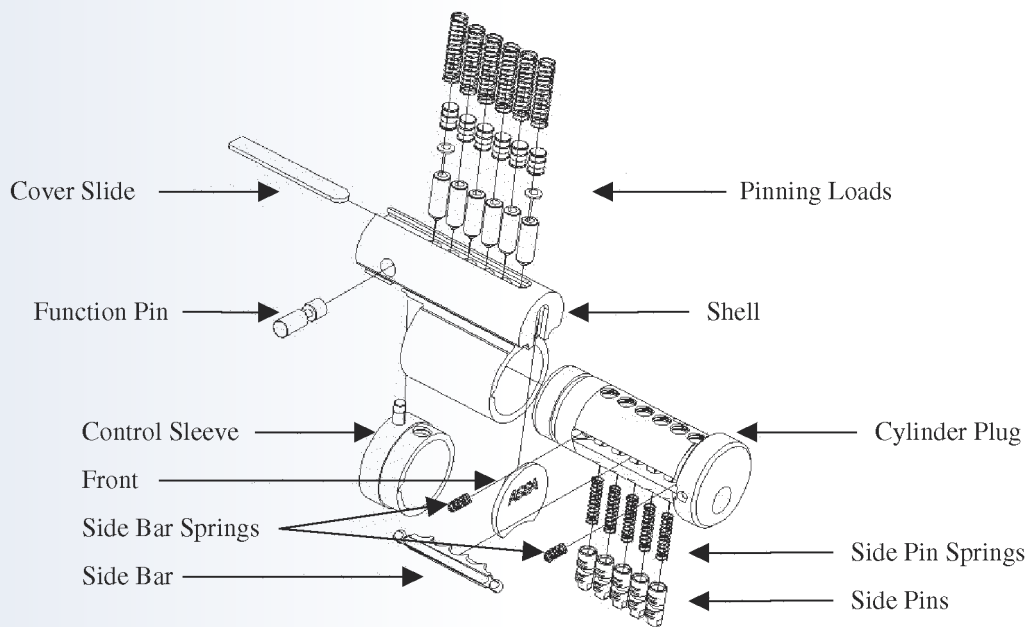
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Rim
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Mogul
Cyls.
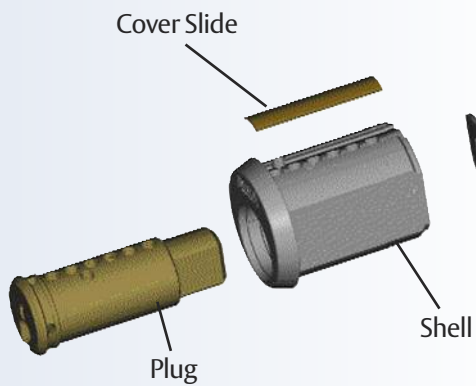
IC Core
Cyls.

KIK/KIL
Cyls.

Deadbolts

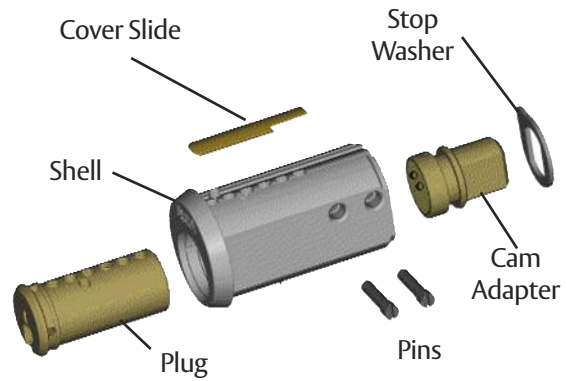Auxiliary
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The chart below shows pinning combinations available in the first pin chamber position.

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.

Servicing ASSA Cam Locks

Cover Slide   Stop Washer

Shell

Plug

Key Retained

Cover Slide   Stop Washer

Shell

Plug   Pins

Cam Adapter

Non-Key Retained

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

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

.047″ 1.2mm	.071″ 1.8mm	.094″ 2.4mm	.118″ 3.0mm	.142″ 3.6mm	.165″ 4.2mm	.189″ 4.8mm	.213″ 5.4mm
T2	T3	T4	T5	T6	T7	T8	T9
809328	809329	809330	809331	809332	809333	809334	809335

0.718″

0.875″

0.875″
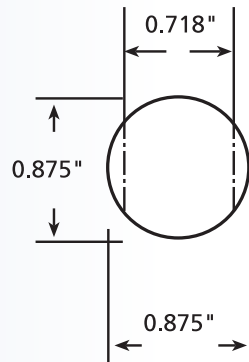
For metal installation use 7/8" double D punch.

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Electronic Access Control

Keys & Keying

Mortise Cyls.

Rim Cyls.

Mogul Cyls.

IC Core Cyls.

KIK/KIL Cyls.

Deadbolts

Auxiliary Locks

Padlocks

Profile Cyls.

Pin Kits Tools & Accessories

Care & Maint.

Technical Specs.

ASSA
ASSA ABLOY

Security Authorization Procedure

- Locksmith is encouraged to use the ASSA-343 form card shown below to register their customers signatures.

- Customer would then be required to sign an ASSA-312 form in order to receive additional cut keys for subsequent orders.

- Locksmith should check signature(s) on the ASSA-343 form registration card and verify that it matches the signature on the ASSA-312 form.

- Personal identification should also be requested for additional customer protection.

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SIGNATURE REGISTRATION CARD # _____

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

END USER			END USER
OWNER'S NAME (Please type or print)	1	TYPE OR PRINT NAME	
STREET ADDRESS		SIGNATURE	
CITY / STATE / ZIP CODE	2	TYPE OR PRINT NAME	
DATE / /		SIGNATURE	

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

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

ASSA 343
7895

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

ASSA Blind Code Key Decoder.

ASSA-312 FORM

- The ASSA-312 form may be used to verify customer signatures at the time of sale and issuance of cut keys.

- Customer will sign the form in the signature block portion, date the signature and copy any stamping information in the space provided.

- Locksmith will check the signature against the original ASSA-343 signature registration card to verify and authorize key cutting.

- Form number is then recorded on the back side of the ASSA-343 card.

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ASSA ABLOY is the global leader in door opening solutions dedicated to satisfying end-user needs for security, safety and convenience.