## **Product Catalog**



# Degree<sup>®</sup> CLIQ<sup>®</sup>

Available through Authorized Channel Partners only.

Contact your local ASSA ABLOY Door Security Solutions sales consultant for details.



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Degree<sup>®</sup> CLIQ<sup>®</sup>

## SARGENT

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## About ASSA ABLOY's Authorized Channel Partner and Certified Integrator Programs

The SARGENT Degree® CLIQ® solution is part of the expanding portfolio of ASSA ABLOY intelligent keys and electronic cylinders that take key systems to a whole new level. In the case of Degree CLIQ, we're combining a patented, high-security key system with a programmable electronic interface that increases security exponentially with the addition of audit trails and date/time based schedules. As such, these products require training and certification of resellers and security professionals to ensure proper product selection, successful deployment, and customer satisfaction.

To aid our customers in this area, ASSA ABLOY has created two programs that provide the necessary training to sell, order, install and service CLIQ intelligent key and electronic cylinder products:



The Authorized Channel Partner (ACP) program for CLIQ solutions is open to resellers, who sell ASSA ABLOY high-security key systems and electro-mechanical locking devices to certified security professionals, and help with product selection based on the application.



The Certified Integrator (CI) program for CLIQ solutions is open to security professionals and systems integrators with an expertise in high-security key systems and electronic access control systems, and provides hands on training to familiarize certified integrator candidates on product features and applications. It also gives them valuable experience installing, commissioning, and troubleshooting the products in a real-world environment.

For more information on the qualifications for becoming an ACP or CI for CLIQ solutions, contact your local ASSA ABLOY Door Security Solutions sales consultant for details.

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Degree CLIQ Mortise Cylinder and Degree CLIQ Key



## Overview

### Degree<sup>®</sup> CLIQ<sup>®</sup>

SARGENT Degree<sup>®</sup> CLIQ<sup>®</sup> brings the features of electronic access control into our patented Degree key system. Installed just like a mechanical cylinder with no wiring, no change in door prep or appearance of a mechanical opening, Degree CLIQ offers end users an audit trail, user access schedules and the ability to quickly and remotely change intelligent key authorizations with the Degree CLIQ Web Manager and Remote.

Degree CLIQ cylinders can be added to existing Degree key systems for a higher level of control, and the added benefit of an electronic master key for added security, flexibility and low cost rekeying.

Existing master keys may need to be upgraded. Contact Sargent Key Records department.

#### **Key Features:**

- Mechanical and electronic technology are combined for superior security with SARGENT patented key control
- Up to 1,000 audit records stored within each key and cylinder, providing information unavailable in a mechanical system
- LED status indicator on keys
- Powered by an easily replaceable coin cell battery with 20,000 cycle battery life
- Self-cleaning electronic contact point for a long lasting key and reliable connection
- Available with RFID/PROX coil insert for dual use with HID compatible systems
- Rated for -20 degrees fahrenheit to 122 degrees fahrenheit (cylinder and key)
- Visible and audible status feedback
- Compact size in water resistant housing
- Bluetooth enabled option for programming and auditing keys
- Factory maintained key system

#### Benefits

A mechanical key system that also has

- Scheduling, to limit access to the days, times of your choosing
- Audit trail, in both the key and cylinder for a comprehensive view of access
- Expiring credentials for greater security or limited access
- 2 year warranty

#### Audit Accountability

Audit information recorded in both the lock and key shows a time-and-date stamped record of every event, including authorized accesses and unauthorized attempts.

#### **Uses Existing Hardware**

The Degree CLIQ intelligent key provides all power to the cylinder, eliminating the need for any hard wiring or power supply. Simply remove the existing mechanical cylinder and install the Degree CLIQ cylinder.

#### **Reduces Risk of Lost Keys**

Respond quickly to security threats, lost or stolen keys, or personnel changes utilizing expiring intelligent key validation intervals and remote programming.

#### **Electronic Scheduling**

Intelligent keys are programmed for specific openings with fully flexible scheduling. Access Profiles can be created where programming updates are generated automatically when an opening is added or removed.



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## Benefits

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#### Keys:

- LED status indicator
- Quick and Low Cost Battery Replacement
- 2 year or 20,000 Cycle Battery
- Lithium Battery CR2330
- Water Resistant
- Rated For -22°F to 122°F
- Compact Size
- Up to 1,000 Audit Events
- Program Permissions/Schedules To Either Key or Cylinder
- Patented Key Control
- Mechanical and Electronic Security



Mortise/Rim Cylinders:

- Program Permissions/Schedules To Either Key Or Cylinder
- Up To 750 Audit Events
- No Wiring Required
- Program 1,000 Authorized Keys
- Combines Mechanical and Electronic Security
- No Additional Door Hardware Required



Component (KIK/KIL) Cylinder:

- Easy To Maintain Power Free Cylinders
- Installs In Minutes

## Bluetooth & Programming Devices

Degree<sup>®</sup> CLIQ<sup>®</sup>

Degree<sup>®</sup> CLIQ<sup>®</sup> intelligent keys are now available with BLE connectivity. The Degree CLIQ CONNECT Key offers Degree CLIQ remote updates when paired with supported iOS and Android smartphones. The Degree CLIQ CONNECT APP is available as a free download from either App Store and manages the CONNECT Key(s) pairing to the smartphone while reporting key battery level, marking, and system number. Keys are user friendly with visible and audible status feedback, compact in size with water resistant housing, and are powered by an easily replaceable CR2330 battery. Utility patented key control provides protection against unauthorized key duplication.

#### CONNECT App features:

- Bluetooth (BLE) enabled with iOS & Android Apps
- Free App download from Apple or Play Stores
- Obtain remote updates via supported Apple and Android Smartphones
- Key audit report via CONNECT App
- Pair and manage multiple CONNECT keys



## Programming Devices

#### **Degree CLIQ Programming Devices**

Description	Part Number
SARGENT CLIQ Local Programming Device (Includes USB Cable)	EC-PRGLPD
SARGENT CLIQ Wall Programmer	EC-PRGINT
SARGENT CLIQ Mobile Programmer	EC-PRGMBL
SARGENT CLIQ Outdoor, Vandal Resistant, Wall Programmer	EC-PRGEXT



Local Programming Device EC-PRGLPD



Wall Programmer EC-PRGINT



Mobile Programmer EC-PRGMBL



Outdoor, Vandal Resistant, Wall Programmer EC-PRGEXT

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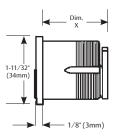


## SARGENT ASSA ABLOY

For use with most Mortise Locks, Exit Devices and Auxiliary Locksets



#### Mortise Fixed Core (FC)



#### Standard Mortise Cylinders supplied with:

- Solid brass cylinder, 1-5/32" (29mm) diameter
- No. 97 rosette and compression spring. Optional Collars/Spacers available and ordered separately, refer to product catalogs for additional information
- Offset cam standard see available cams below
- Factory keyed

#### Length under cylinder head

Cylinder No.	41	42	43	44	46			
DIM "X"	1-1/8"	1-1/4"	1-3/8"	1-1/2"	1-3/4"			
	(29mm)	(32mm)	(35mm)	(38mm)	(44mm)			

Туре	Option	Cylinder Size	Cam(s)	Finish
Mortise Cylinders	ECY	41 (1-1/8"); 42 (1-1/4"); 43 (1-3/8"); 44 (1-1/2"); 46 (1-3/4")	C+d 10E	03, 04, 09, 10, 10B, 14, 15, 26, & 26D

#### How to Order

Quantity	Options*	Cylinder Size	Cam	Key Set	Door#/Item#	Finish
75	ECY	41	Std	AA1	219	26D

#### Cams For Mortise Cylinders\* in SARGENT Keyways

Standard Cam	Short Cam (-105)
Standard open slotted cam provided on all 40 Series -standard. Except: 7816, 8216, 7892 & 8292 function mortise locks	Cam used with SARGENT mortise functions 7816, 8216, 7892 & 8292 on the inside cylinder

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For use with Exit Devices and Auxiliary Locking Devices



**Rim Fixed Core** 

#### Standard Rim Cylinders supplied with:

- Solid brass cylinder, 1-5/32" (29mm) diameter
- No. 97 rosette and compression spring. Optional Collars/Spacers available and ordered separately, refer to product catalogs for additional information
- Horizontal tail piece only
- 27/32" (21mm) screw pattern through-bolts to SARGENT exit devices (same as standard rim cylinders)
- Factory keyed

Туре	Option	Cylinder Type	Finish
Rim Cylinders	ECY	34 Rim Cylinder	03, 04, 09, 10, 10B, 14, 15, 32, & 32D

#### How to Order

Quantity	Options*	Cylinder Type	Key Set	Door#/Item#	Finish
75	ECY	34	AA1	201	03

#### **Fixed Core Component**

For use with SARGENT Cylindrical Lever, Knob Locks and Auxiliary



Key-in-knob (KIK), Key-in-lever (KIL) Fixed Core (FC)

### How to Order Lever & CLIQ Knob Cylinders

	Quantity	Option	Catalog No	Key Set	Finish
[	75	ECY	C10-1	AB1	04

### **Designations & Options for Degree Series Components**

SARGENT Lockset	Option	Catalog No	Finish
11 Line Locks	ECY	C11-1	US 04 or US 15
10, 7, 7500, and 6500 Line (Levers) & 88KL, 88CL, 28KL, 28NL & 28CL Exit Trims	ECY	C10-1	US 04 or US 15
6 Line Cylindrical Locks	ECY	C6-1: S&M Knob C6-1B: B Knob	US 04 or US 15

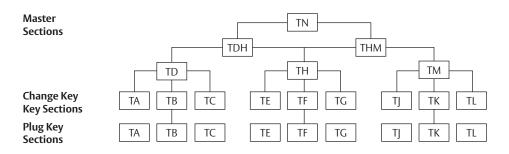
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Part Numbers	Description	Color
EC6272PRG	C-Key (Programming Key)	Red
EC6272CHK	Day/Change User Key, Standard	Black
EC6272MK	Master User Key, Standard	Black
ECBT6272CHK	Day/Change User Key, Bluetooth	Blue
ECBT6272MK	Master User Key, Bluetooth	Blue
14-2062	Battery Cover, Programmed (Bag Of 25)	Black

#### For Multiplex Masterkey Systems (T keyway family shown)



#### **Cylinder Spray Lubricant**

Degree® CLIQ® cylinders are mechanical devices and require preventive maintenance. At a minimum, Degree CLIQ cylinders should be lubricated twice a year;; more if installed in extreme installations.

Degree CLIQ cylinders should not be exposed to chemical washes or painted.

3.0 oz aerosol part number 18-0070



## Software Management

## Degree<sup>®</sup> CLIQ<sup>®</sup>

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Degree<sup>®</sup> CLIQ<sup>®</sup> technology offers web management key systems utilizing Degree CLIQ Web Manager. This robust and versatile system allows administrators the ability to manage Degree CLIQ intelligent keys and cylinders from anywhere with internet access. With the optional Remote Wall Programming Devices, the intelligent keys can obtain authorization changes and recurring validity with timely expirations for enhanced security while retrieving audit data simultaneously. Several feature packages are available to meet many customer requirements.

### **CLIQ Web Manager**

	Desciption	Hosted Basic	Hosted Remote+	Hosted Enterprise
	Domain Administration	$\checkmark$	$\checkmark$	$\checkmark$
	Remote Programming	х	$\checkmark$	$\checkmark$
	Key Revalidation	х	$\checkmark$	$\checkmark$
res	Access Profiles	х	$\checkmark$	$\checkmark$
Features	Temporary Access Groups	х	$\checkmark$	$\checkmark$
۳,	Flexible Revalidation	х	х	$\checkmark$
	Cylinder Groups	х	х	$\checkmark$
	Web Services for 3rd Party Applications	х	х	$\checkmark$

### SARGENT Web Hosting Services (Annual Service Fees Apply)

Description	Part Number
Hosted Basic	EC-WMB
Hosted Remote+	EC-WMRP
Hosted Enterprise	EC-WME

### **Customer Hosted Web Services**

Description	Part Number
Hosted Enterprise with Web Services	Contact Factory

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## Degree® CLIQ® Key Systems are built on the Degree Key System platform. As such, Degree CLIQ is subject to Degree Administration policies.

#### **Degree System Administration**

All SARGENT Degree key systems must have a signed System Information Document (SID), located in the back of this catalog and available online, for each facility. The SID designates a primary systems administrator for the facility. Unless otherwise indicated by the primary systems administrator by way of a separate specific letter of authorization, all shipments for Degree product will go to the shipping address on the Systems Information Document.

All key blanks are to remain in the possession of the facility and must be accounted for. Any defective, incorrectly cut or damaged key blanks must be destroyed.

Specific randomized security codes will be required for each order unless the systems administrator opts out of this feature. For more information, see the Systems Information Document.

#### **Keyway Administration and Assignment**

All keyways will be noted on the master key system bitting list. SARGENT Keying Department Administration will assign all DG keyways. Keyways will be assigned according to facility type, geographic location and keying system specifications. All keys will ship directly to the end user. All master key systems will be registered with Keying Department Administration and all bittings will be factory created.

#### **Key Control**

Key control will be maintained by using the SARGENT Keying Authorization Document. For a copy, contact Keying Department Administration or visit our web site at www.sargentlock.com. System information and/or systems related product will be forwarded directly to the owner, unless otherwise indicated by the owner's appointed administrator.

#### **Authorized Distributors**

SARGENT Degree is a system-based product and is provided through authorized distribution. An authorized distributor may stock and service products upon specific written authorization from the primary system administrator of the facility.

Authorized distributors who carry inventory for a specific facility's system must provide valid receipts and disbursements of all products, specifically key blanks/cut keys. All key blanks in the possession of an authorized distributor must be accounted for. Any defective, incorrectly cut or damaged key blanks must be destroyed.

## Architectural Specifications

#### Degree<sup>®</sup> CLIQ<sup>®</sup>

#### SARGENT Degree<sup>®</sup> CLIQ<sup>®</sup> Performance Specification

- A. Digital Cylinders and Keys:
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Sargent Manufacturing; Sargent Degree and/or Sargent Degree CLIQ.
  - 2. Digital Cylinders: Provide original manufacturer cylinders to meet the following minimal requirements:
    - a. Cylinders operate as key-based product
    - b. Cylinders to combine both electronic technology and mechanical pinning for two independent forms of security protection.
      - 1) Mechanical protection shall include:
        - a) Three locking elements consisting of a slider mechanism, a sidebar mechanism with tumbler rotation and pin tumbler elevation
        - b) Lock tumblers with dual-axis action, with one axis utilized for pin tumbler rotation and the other axis utilized for positioning key cuts
        - c) Automatic mechanical relock upon removal of the key without the aid of battery power
      - 2) Electronic protection shall include:
        - a) Unique security code for every system
        - b) Electronic communication protected by minimum of 64-bit DES encryption
      - 3) Cylinders automatically relock upon removal of the key without the aid of battery power.
    - c. Cylinders shall install without requiring any wiring or electricity and are capable of retrofitting existing hardware without any special door or door frame modifications.
    - d. Cylinders to provide time-stamped electronic audit with no less than 700 operations or attempted operations and stored in non-volatile memory within the cylinder and accessible with an administrative key that holds no less than 2000 records.
    - e. Provide scheduling with no less than 1000 user groups per cylinder and 1000 individual users per user group.
    - f. Retrofit into rim, mortise, or key-in-lever cylinder types
  - 3. Digital Keys: Provided original manufacturer keys to meet the following minimal requirements:
    - a. Keys to combine both electronic technology and mechanical pinning for two independent forms of security protection.
      - 1) Mechanical Security Features:
        - a) Keys to be protected by U.S. Utility patent to ensure against unlawful key duplication
        - b) Key must have no fewer than 6 mechanical cuts with varying depths and angles to each cut
        - c) Key must be no less than .125" thick for strength
        - d) Capable of providing a single master key with over 1,000,000 (1 million) usable, not interchangeable change keys in a single keyway

- 2) Electronic Security Features:
  - a) Key electronic security codes are to be unique to any system with electronic communication a minimum 64-bit DES encryption.
  - b) Keys to provide access control functions with nonvolatile system programming allowing loss of battery life to retain key access rights, and/or audit records.
- b. Keys to allow different schedules for up to 30 different cylinder groups.
- c. Keys to operate cylinder type products with a minimum capacity of 1000 user groups per key and 1000 individual users per user group.
- d. Keys to provide a time-stamped audit for up to the most recent 100 operations or attempted operations.
- e. Keys are powered by a common watch-style battery, Model CR2330, with an estimated 2 years or 20,000 openings per battery life.
- f. Keys to provide multiple level battery indicator via flashing LED and audible tone.
- g. Keys to be compact in design and operate in a similar manner as mechanical key.
- h. Keys shall not be limited by a timeframe to unlock the cylinder once inserted, if key is properly authorized.
- i. Keys to require no additional maintenance other than regular battery replacement.
- Digital Cylinder System Software: Provide digital cylinder manufacturer's original management software supporting the following features:
  - a. Auditing capability of both the digital cylinder and the key.
  - b. Product management by the system software with the following provisions:
    - 1) Lost or stolen keys to be deactivated from the system.
    - 2) User schedules set uniquely for each key holder.
    - 3) Software access protected by password and unique system authorization key.
    - 4) System capacity to operate up to 65,535 keys.
  - c. System software to include programming device and required cabling necessary for communication to host computer.
- 5. Manufacturers Quality Assurance:
  - a. Manufacturer will have minimum (20) years of documented experience in providing electronic cylinder design and manufacture, providing related access control and security systems equipment and software into multiple markets with a proven record of successful in-service performance.

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#### Degree DG1 Required Administrative Documents:

- <u>Mandatory</u>; all new systems will require a completed System Information Document (orders can not be entered without this document). The fully executed original document will be kept on file at Sargent Manufacturing.
- Subsequent order requirement. A letter of authorization will be required if the product is shipped to an address other than what's recorded on the System Administration Document, and/or if the address on the purchase order is different than what is listed on the System Information Document.

#### Degree DG2 & DG3 Required Administrative Documents:

- <u>Mandatory</u>; all new systems will require a completed System Information Document (orders can not be entered without this document). The fully executed original document will be kept on file at Sargent Manufacturing.
- Subsequent order requirement: A specific randomized security code will be required for each order unless "Opt-Out" has been authorized by the systems administrator.
- If the "Opt Out" option is **<u>NOT</u>** selected
  - o A correct system specific (randomized) security code must be included with each subsequent order.
    - Security codes are specific to each order.
  - o If the shipping address is other than the one listed on the System Information Document, a Letter of Authorization signed by one of the recorded authorized representatives of the facility is required.
  - o Letter of Authorization must contain the same shipping address that appears on the customer's Purchase Order.
  - o Letters of Authorization will not be kept on file at factory.
  - o Without the proper security code, Letter of Authorization, or if the shipping address is other then what's listed on the System Information Document, the order cannot be processed.
- If the System Administrator elects not to use security codes as part of the authorization process, the "Opt Out" option can be authorized by the system administrator.
  - o If the "Opt Out" option <u>IS</u> selected
    - A system-specific security code is not required.
      - Letter of Authorization must be signed by one of the facility's authorized representatives.
      - If the shipping address is other then the one listed on the System Information Document, a Letter of Authorization will be required.
      - Letter of Authorization must contain the same shipping address that appears on the customer's Purchase Order.
      - Letters of Authorization will not be kept on file at factory.

#### Degree CLIQ Required information:

- <u>Mandatory</u>: In addition to the above information Degree CLIQ systems require Time Zone and Daylight Savings information.

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## System Information Document

Degree®	CL	IQ®
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System: DG1 DG2 / DG3 Note: Degree SID is required with every initial order	IMPORTANT: Sargent Degree Product is available with a "0" cut depth for DG1 systems <b>only</b> and it is not available for use in a DG2 or DG3 security level product. If there is a possibility to elevate the DG1 system to DG2 or DG3, any master keying expansion requests should be discussed with a Sargent Key Records team specialist."			
Facility Name:				
Mailing Address:	Shipping Address:			
City:	City:			
State/Province:Zip/Postal Code:	State/Province:	Zip/Postal Code:		
Phone: ()				
Fax: ()	Time Zone:			
E-Mail:	Daylight Saving	gs:		
Ву:				
(Print Name, Primary Systems Administrator)	(Title)	(Authorized Signatures)		
for any reason whatsoever, it is my responsibility to notify and the names of their replacements. Date:Authorized Facility Representatives		par annon 5, in thinking, or anon release		
(Print Name)	(Title)	(Authorized Signatures)		
Please attach any additional Authorized Facility Representat <b>" OPT-OUT" Option (System Type DG2 &amp; DG3 Only):</b> numbered registration certificates and agree to subs	By selecting this option I estitute them with a Letter of			
	when selecting to "	Opt-Out".		
<b>Note:</b> Use this form along with the keying cover sheets fo	und in the general informa	ation section of the price book		



The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, locks, perimeter fencing, access control and service.



SARGENT Manufacturing Company 100 Sargent Drive New Haven, CT 06511 USA 800-727-5477 www.sargentlock.com

Founded in the early 1800s, SARGENT<sup>®</sup> is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets.

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## **Broader Control**





## Degree<sup>®</sup> CLIQ<sup>®</sup> Intelligent Key System

ASSA ABLOY, the global leader in door opening solutions



## **Electronic Access Control**

SARGENT Degree® CLIQ® brings the features of electronic access control into our patented Degree key system. Installed just like a mechanical cylinder with no wiring, no change in door prep or appearance of a mechanical opening, Degree CLIQ offers end users an audit trail, user access schedules and the ability to quickly and remotely change intelligent key authorizations with the Degree CLIQ Web Manager and Remote.

Degree CLIQ cylinders can be added to existing Degree key systems for a higher level of control, and the added benefit of an electronic master key for added security, flexibility and low cost rekeying.

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#### **Features**

- Mechanical and electronic technology are combined for superior security with Sargent patented key control
- Available for component, mortise and rim fixed core cylinders
- LED status indicator on keys
- Audit key up to 1,000 audit records provides information
- Powered by an easily replaceable coin cell battery with 20,000 cycle battery life
- Long lasting key and reliable connection
- Available with RFID/PROX coil insert for dual use with HID compatible systems
- Bluetooth enabled for remote updates
- Rated for -20 degrees fahrenheit to 122 degrees fahrenheit (cylinder and key)
- Visible and audible status feedback
- Bluetooth enabled option for for remote programming and auditing keys by mobile phone

### **Applications:**

- Commercial facilities
- Data processing centers
- Distribution and warehousing
- Industrial and light manufacturing
- Remote or isolated openings

#### SARGENT Manufacturing Company For more information call 800-727-5477 or visit us online at www.sargentlock.com

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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.

#### **Benefits**

- Flexibility: Make remote changes to key system without the need to change or re-pin cylinders. Add/remove keys, modify key access, and create/adjust key scheduling electronically with CLIQ Web Manager.
- Accountability: Capture audit information in both the lock and key, including authorized accesses and unauthorized attempts
- Added Security: Respond quickly to security threats, lost or stolen keys, or personnel changes utilizing access rights removal, expiration, and revalidation via remote programming
- Cost Effective: Eliminate the expense of physically rekeying locks and replacing keys. All rekeying is done electronically through the programming of the keys





Sold Through

Installed By

Authorized Channel Partner Certified Integrator

## **Product Catalog**







Experience a safer and more open world

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Degree<sup>®</sup> Key System

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## On The Cover

Degree Mortise Cylinder, Degree Key and Degree 6300 Series Core

# ASSA ABLOY

### Degree<sup>®</sup> Key System

#### The Degree Key System

The patented Degree system from SARGENT provides the right level of security for each opening in your facility. Three levels of ANSI/ BHMA Grade 1 protection, from patented keyway to UL437 certified, secures every opening. A common key for all three levels of security enhances key control and simplifies administrative procedures. Key blanks are controlled through authorized distribution and geographical protection is available. Available for mortise, rim, component and Large Format Interchangeable Core (LFIC) cylinders, SARGENT offers the right Degree of protection for every door in your facility.

#### Benefits

- Patent protection from unauthorized key duplication through 2027
- New keyway family protects system integrity from legacy systems
- Keys are significantly stronger than competitive systems
- User-friendly design with minimal components provides easy field service
- Availability in all existing SARGENT cylinder types provides cost-effective upgrade for SARGENT facilities
- Bump resistance for added protection

**Degree Level 1** (DG1) features a utility patented keyway and provides protection against bumping for mortise, rim and component fixed cylinders. These cylinders easily retrofit into existing hardware and are appropriate for most applications. The keys for DG1 can only open DG1 cylinders.

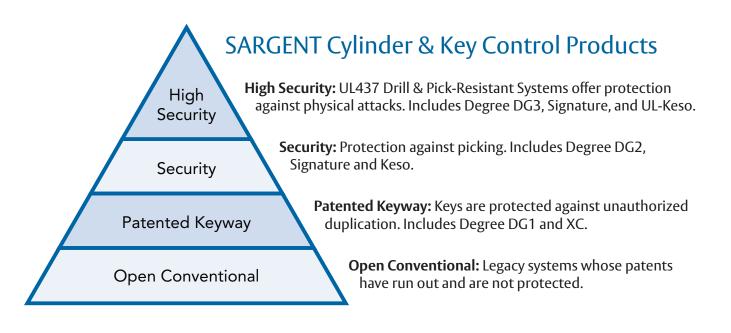
**Degree Level 2** (DG2) builds on the utility patented keyway of DG1 and adds patented side bar locking with unique angled bottom pins that provide end users with geographical exclusivity. Cylinders provide protection against bumping and picking. Because of its superior key control and patent protection until 2027, DG2 products are recommended for use in conjunction with DG3 for new installations or when retrofitting systems, including large format interchangeable core systems.

Degree Level 3 (DG3) combines the utility patented keyway and side bar locking with unique angled bottom pins that provide end users with geographical exclusivity, and adds certification to UL437. They are classified as high security because of their superior resistance to physical attack and protection against unauthorized key duplication. Because of its superior key control, patent protection until 2027, and physical strength, we recommend DG3 products for new high-security installations or when retrofitting systems, including large format interchangeable core systems. SARGENT also offers anti-vandal and high security locksets that complement DG3 cylinders for those openings most vulnerable to attack.

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IMPORTANT: Sargent Degree Product is available with a "0" cut depth for DG1 systems **only** and it is not available for use in a DG2 or DG3 security level product. If there is a possibility to elevate the DG1 system to DG2 or DG3, any master keying expansion requests should be discussed with a Sargent Key Records team specialist.



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## Specifications & Features

SARGENT ASSA ABLOY

Degree<sup>®</sup> Key System

### **Product Certifications**

ANSI/BHMA A156.5-2010 Grade 1

E09211 (Mortise) E09221 (Rim) E09231 (Bored Lock Cylinders)

### Applications

Degree is recommended for installations requiring patented key control protection including protection from picking and/or drilling, all available in one locking system. Degree is ideally suited for Educational and Healthcare facilities, Industrial and Commercial buildings. Features of the Degree Key System

	DG1	DG2	DG3
Utility patented until 2027	Х	Х	Х
Key blank distribution restrictions	Х	Х	Х
Geographic exclusivity		Х	Х
Bump resistant	Х	Х	Х
Common style pins	Х		
Unique angled bottom pins		Х	Х
Convenient, simple to service	Х	Х	Х
New keyway family and keying specifications from previous SARGENT systems	х	х	х
Can be masterkeyed with all Degree levels and LFIC	Х	Х	Х
Certified to UL437			Х

### **Product Specifications**

All cylinders shall be utility patented, bump resistant and require the use of a patented key. All cylinders shall be available in any of the mortise, rim, key-in-knob/lever, auxiliary locks, padlocks or large format interchangeable core types.

Degree offers three distinct security options from which facilities can select the appropriate degree of security for any door. Degree provides the ultimate in key control by simplifying ordering processes and by allowing the system administrator to determine the level of protection for system components. Additional specifications are found on page 22.

### **Keying Specifications**

#### Keying

- Degree is a factory-based key system
- 6 pin cylinders furnished with two nickel silver keys per cylinder. Degree cylinders may be furnished master keyed, or grandmaster keyed to a specific facility. Double cylinder lock sets keyed alike on both sides will get two change keys total
- Degree's one-key design allows the use of all three locking mechanisms within the same system to be operated with just one key
- Degree systems are independent and cannot be keyed into existing and/or conventional SARGENT master key systems
- Cross keying is not recommended. Keying Department Administration will review all requests and determine if compatible with a secured master key system

Note: DG1 systems using 7 depths of cut cannot be integrated with DG2 or DG3 systems.

### UL 437 Listed Cylinders

SARGENT DG3 cylinders\* are UL437 Listed. UL437 sets the standard for both drilling and picking resistances.

These cylinders are manufactured to include hardened drill resistant inserts in both the plug/barrel and body.

UL437 High Security DG3 cylinders are recommended for doors most likely to be physically assaulted, while the use of standard DG1 and DG2 cylinders is more advantageous and less costly for interior doors.

\* Note: DG3 cylinder offerings include mortise, rim and bored cylinders in conventional as well as Large Format Interchangeable Core

Patent pending and/or patent www.assaabloydss.com/patents

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## System Administration

### Degree<sup>®</sup> Key System

#### **Degree System Administration**

All SARGENT Degree key systems must have a signed System Information Document (SID), located in the back of this catalog and available online, for each facility. The SID designates a primary systems administrator for the facility. Unless otherwise indicated by the primary systems administrator by way of a separate specific letter of authorization, all shipments for Degree product will go to the shipping address on the Systems Information Document.

All key blanks are to remain in the possession of the facility and must be accounted for. Any defective, incorrectly cut or damaged key blanks must be destroyed.

For Degree DG2 and DG3, specific randomized security codes will be required for each order unless the systems administrator opts out of this feature. For more information, see the Systems Information Document.

#### **Keyway Administration and Assignment**

All keyways will be noted on the master key system bitting list. SARGENT Keying Department Administration will assign all DG keyways. Keyways will be assigned according to facility type, geographic location and keying system specifications. All keys will ship directly to the end user. All master key systems will be registered with Keying Department Administration and all bittings will be factory created.

#### **Key Control**

Key control will be maintained by using the SARGENT Keying Authorization Document. For a copy, contact Keying Department Administration or visit our web site at www.sargentlock.com. System information and/or systems related product will be forwarded directly to the owner, unless otherwise indicated by the owner's appointed administrator.

#### **Authorized Distributors**

SARGENT Degree is a system-based product and is provided through authorized distribution. An authorized distributor may stock and service products upon specific written authorization from the primary system administrator of the facility.

Authorized distributors who carry inventory for a specific facility's system must provide valid receipts and disbursements of all products, specifically key blanks/cut keys. All key blanks in the possession of an authorized distributor must be accounted for. Any defective, incorrectly cut or damaged key blanks must be destroyed.

Refer to pages 23 and 24 for a copy of the SID and more information.

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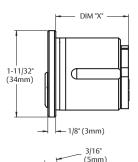
### Degree<sup>®</sup> Key System

#### DG1-, DG2- & DG3- Series Mortise Cylinders

For use with Mortise Locks, Exit Devices and Auxiliary Locksets



Mortise Fixed Core (FC)





SARGENT standard cam shown

#### Standard Degree Mortise Cylinders supplied with:

- Solid brass, 6 pin cylinder, 1-5/32" (29mm) diameter
- T keyway family standard see page 18 for available keyways
- No. 97 rosette and compression spring, when hardware is ordered less cylinder
- Offset cam DG-0001 standard see available cams on page 7
- Factory keyed

#### Options

- Construction Master Keying (21- option)
  - Allows use of construction keys until change key voids operation
  - Ships with 6 master construction keys separate from change keys
- Removable Disposable Construction Core (60-option)
- Operate with coin or flat screw driver
- Easy installation
- Removable Core (63- option)
- Control key releases locking cam for removal of core
- Control keys ordered separately
- Removable Construction Keyed LFIC (64- option)
  - Furnished with 6 keys and 1 control key standard
- Plug face dimpled for easy identification • Unassembled Cylinder (65- Option)
  - DG1 and DG2 only
  - Includes two key blanks but no pins, springs or slide
  - When ordered with hardware, 65-DG cylinders are packed uninstalled with hardware
- Available on existing systems only

§ DG2 & DG3 cylinders are not available as Hotel function (50-)

#### Length under cylinder head

- Exposed Plug only (78- option)
  - Exposed plug .560" (14mm) diameter
  - For use with trim LE3/LE4 & KE3/KE4; specify 78- only when cylinder is ordered less product
  - Supplied with standard offset cam DG 0001; optional cam 105 for use on inside of 7816/8216/9200 locks only
- Hotel function§
  - 7850 or 8250 hotel function mortise locks require a 50- cylinder where change keys and master keys have limited rotation that only allow latch bolt retraction
- #115 cam supplied standard with 50 function hotel locks & cylinders
- The #115 cam is supplied only with SARGENT 7850/8250 locks
- Guest and Master keys will only retract the latch bolt but not project or retract the dead bolt
- Emergency keys, ordered separately, retract or project the latchbolt and deadbolt (p/n DG7268 EMK)
- Available in #43 (1-3/8") and #44 (1-1/2") cylinder lengths
- Hotel function available with Large Format Interchangeable Core (63-), Plastic Disposable Temporary Core<sup>‡</sup>(60-) & Construction Core‡(64-)

#### ‡ Note: 60- & 64- will retract Latch only, it will not retract the deadbolt

	-	-				
	Cylinder No.	41	42	43	44	46
	DIM "V"	1-1/8"	1-1/4"	1-3/8"	1-1/2"	1-3/4"
gree Mortise Cylinders	DIM "X"	(29mm)	(32mm)	(35mm)	(38mm)	(44mm)
gree mortise cynnuers						

Degree Mortise Cylinders		(29mm)	(32mm)	(35mm)	(38mm	) (44mm)
Туре		Degree Level		Cylinder Size		
Degree Mortise Cylinders		G2- or DG3-	41 (1-1/8"); 42 (1-1/4"); 43 (1-3/8"); 44 (1-1/2"); 46 (1-3/4")			Std, 101, 104, 105 106, 112 & 113
Exposed Plug DG Mortise Cylinders (Specify 78-)		DG1-	41 (1-1/8"); 4	2 (1-1/4"); 43 (1	-3/8")	Standard or 105
Hotel Function DG Mortise Cylinders (Specify 50-)		DG1-	43 (1-3	8/8"); 44 (1-1/2")		115 only

#### How to Order DG Series Mortise Cylinders less hardware

Quantity	Options*	Cylinder Size	Cam	Key Set	Door#/Item#	Finish†
75	DG1-	41	Std	AA1		26D
* Available options for Degree Mortise Cylinders are: DG1-, DG2-, DG3-, 21-, 50-, 60-, 63-, 64-, 65- & 78-						

#### How to Order DG Series Cylinder with Hardware (8200 Mortise example)

			•				
Quantity	Options**	Series & Function	Rose/Escutcheon	Lever	Finish†	Hand	Keying Detail
95	DG3-	8205	LN	MX	15	RH	AA1
** Available options for Degree Mortise cylinders ordered with hardware are: DG1- DG2-, DG3-, 21-, 60-, 63-, 64- & 65- (78- cylinders are determined by the function or trim specified and are not specified when ordering)							

† Finishes available: 03, 04, 09, 10, 10B, 10BE, 10BL, 14, 15, 20D, 26, 26D, BSP, WSP

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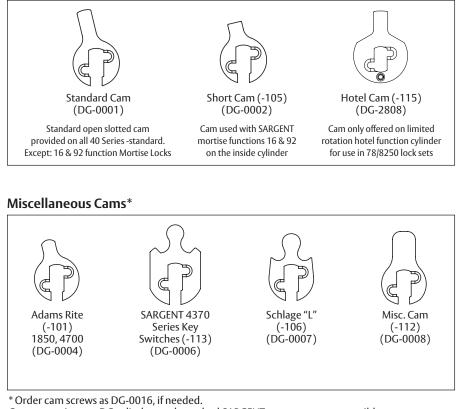
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## Cams for Mortise Cylinders

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## Degree<sup>®</sup> Key System

#### **Cams For Degree Mortise Cylinders\* in SARGENT Keyways**



Cams are unique to DG cylinders and standard SARGENT cams are not compatible

### Cams for DG-60-63-64- Large Format Interchangeable (Removable) Core **Mortise Cylinders**

- 6300 Cams are factory installed and are not removable
- 6300 Cams are not sold separately •
- Specify cam as a suffix: • DG1-63-44 x 105 cam
- For Standard Cam: No Suffix is required

### Standard

6300 Series Cam



-105 Cam for inside cylinder of Mortise 16 & 92 function locks



Cam for 6300 Series 50 function locks

-101 ADAMS RITE 1850 4710

-115

-113 4370 Series key switch  $\bigcirc$   $\bigcirc$ 



Schlage



Misc. Cam

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## **Rim Cylinders**

## Degree<sup>®</sup> Key System

### DG1-, DG2- & DG3- Series Rim Cylinders

For use with Exit Devices and Auxiliary Locking Devices



**Rim Fixed Core** 

#### Standard Degree Rim Cylinders supplied with:

- Solid brass, 6 pin cylinder, 1-5/32" (29mm) diameter
- T keyway family standard see page 18 for available keyways
- No. 97 rosette and compression spring, break-off screws and back plate
- · Horizontal tail piece only
- 27/32" (21mm) screw pattern through-bolts to SARGENT exit devices (same as standard rim cylinders)
- Factory keyed

#### Options

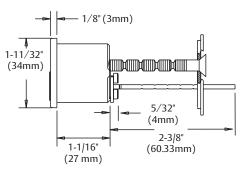
- Construction Master Keying (21- option)
  - Allows use of construction keys until change key voids operation
  - Ships with 6 master construction keys separate from change keys
- Removable Disposable Construction Core (60-option)
- Operate with coin or flat screw driver
- Easy installation
- Removable Core (63- option)
  - Control key releases locking cam for removal of core
  - Control keys ordered separately
- Removable Construction Keyed LFIC (64- option) - Furnished with 6 keys and 1 control key
  - standard
  - Plug face dimpled for easy identification

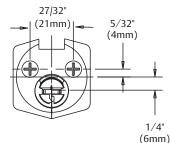
- Unassembled Cylinder (65- Option) DG1 and DG2 only
  - Includes two key blanks but no pins, springs or slide

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- When ordered with hardware, 65-DG cylinders are packed uninstalled with hardware
- Available on existing systems only





**Degree Rim Cylinders** 

Туре	Degree Level	Cylinder Type
Degree Rim Cylinders	DG1-, DG2- or DG3-	34 Rim Cylinder

### How to Order DG Series Rim Cylinders less hardware

Quantity	Options*	Cylinder Type	Key Set	Door#/Item#	Finish†
75	DG2-	34	AA1		26D

### How to specify DG Series Cylinder with Hardware (80 Series Exit Device example)

Quantity	Options*	Series & Function	Rail Size	Trim	Finish†	Hand	Keying Detail
25	DG2-	8804	F	ETL	32D	RHR	AA1

\* Available options for Degree Rim Cylinders are: DG1-, DG2-, DG3-, 21-, 60-, 63-, 64- & 65-

†Finishes available: 03, 04, 09, 10, 10B, 10BL, 10BE, 14, 15, 20D, 26, 26D, BSP, WSP



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## Large Format Interchangeable Core Mortise Cylinders

### Degree<sup>®</sup> Key System

#### **Degree Large Format Interchangeable Cores and Cylinders**

For use with Mortise Locks, Exit Devices and Auxiliary Locksets



DG-6300

Cylinder Core

#### Core only (DG-6300): Solid brass, 6 pin cylinder

- Available in 04 or 15 finish only
- T keyway family standard see page 18 for available keyways
- Factory keyed or available unassembled\* for field keying (65-)
- Offset cam DG-0001 standard see available cams on page 7
- Hotel functions (50-) available with DG1-
- Order core only as: DG1- 6300, DG2- 6300 or DG3- 6300
- \* 65- option available for DG1 and DG2 only. Includes two key blanks but no pins, springs or slide. (Available on existing systems only)

#### Housings:

Solid brass, 1-5/32" (29mm) diameter

Mortise housing with disposable plastic core

Operates with coin or flat screw driver

Removable Core (63- option) • Mortise housing with DG LFIC

Can be master or grandmaster keyed

- Available in finishes: 03, 04, 09, 10, 10B, 10BE, 10BL, 14, 15, 20D, 26, 26D, BSP, WSP
- Furnished with no. 97 rosette and compression spring when supplied without hardware
- Available in 42 (1-1/4"), 43 (1-3/8"), 44 (1-1/2"), or 46 (1/34") lengths

#### **Options:**

Easy installation

#### Removable Disposable Construction Core (60- option)

• After removal of temporary plastic core, housing accepts DG-6300

DG2-60- housing size x cam x finish

DG3‡-60- housing size x cam x finish

- - Order as: DG1-60- housing size x cam x finish



DG-60-Mortise Housing



- DG-63-Mortise Cylinder
- (65- available DG1 & DG2 only) Control keys ordered separately
- Additional control keys for DG1 systems: DG6272CTL; control keys for DG2 and DG3 systems: DS6272CTL

Control key releases locking cam for removal of core

Available as unassembled less springs, pins and slide

• Order as: DG1-63- housing size x cam x finish DG2-63- housing size x cam x finish DG3‡-63- housing size x cam x finish

#### Removable Construction Keyed LFIC (64- option)

- Mortise housing with construction core
- Construction cores are keyed alike in KA keyset
- After removal of construction core, housing accepts DG-6300
- Furnished with 6 keys and 1 control key standard
- Plug face dimpled for easy identification
- Housing with Construction Core

**DG-64-Mortise** 

• Order as: DG1-64- housing size x cam x finish DG2-64- housing size x cam x finish DG3<sup>‡</sup>-64- housing size x cam x finish

- Notes: DG1 and DG2 use the same mortise housing
  - DG3 cores must be used with DG3 housings to maintain UL437 listing

- Hotel Functions – DG-60-Hotel function (50-) housings are available in DG1- only, in #43 (1-3/8") length and only for use in Sargent 78/8250 lock sets
- Order as: DG1-60-50-43 x finish (Note: used with DG1-6300 cores only)
- Emergency Master Key ordered separately, as an DG7269EMK
- Hotel Functions
  - DG-60-Hotel function (50-) housings are available in DG1- only, in #43 (1-3/8") length and only for use in Sargent 78/8250 lock sets
  - Order as: DG1-60-50-43 x finish (Note: used with DG1-6300 cores only)
  - Emergency Master Key ordered separately, as an DG7269FMK

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#### How to order 6300 Series LFIC DG mortise cylinders less hardware

	Quantity	Options*	Cylinder Size	Cam	Keying Detail	Finish
Complete Cylinder: DG-LFIC and Housing	75	DG2-63-	44	Std	AA1	26D
Housing Only	125	DG1-60-	44	Std	-	26D
LFIC Only 85 DG2-6300 – – AA1		15				
* Available options for Degree LFIC Mortise Cylinders are: DG1-, DG2-, DG3-, 50-, 60-, 63-, 64- & 65- Note: Cores are available in 04 & 15 finish						

#### How to Order DG Series 6300 Series LFIC Cylinder with Hardware (8200 Series Mortise Lock example)

Quantity	Options**	Series & Function	Rose/Escutcheon	Lever	Finish	Hand	Keying Detail
95	DG2-63-	8237	LE1	ML	26D	RHR	AA1
**Available options for Degree Mortise Cylinders are: DG1-, DG2-, DG3-, 60-, 63, 64- & 65-							

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## Large Format Interchangeable Core **Rim** Cylinders

## Degree<sup>®</sup> Key System

#### **Degree Rim Large Format Interchangeable Cores and Cylinders**

For use with SARGENT Mortise locks, Exit Devices and Auxiliary Locking Devices



DG-6300

Cylinder Core

DG-60-Rim Housing

DG-63-Rim Cylinder

#### Core only (DG-6300):

- Solid brass, 6 pin cylinder
- Available in 04 or 15 finish only
- T keyway family standard see page 18 for available keyways
- Factory keyed or available unassembled\* for field keying (65-)
- Order core only as: DG1- 6300, DG2- 6300 or DG3- 6300
- \*65- option available for DG1 and DG2 only. Includes two key blanks but no pins, springs or slide. (Available on existing systems only)

#### Housings:

- Solid brass, 1-5/32" (29mm) diameter
- Available in finishes: 03, 04, 09, 10, 10B, 10BL, 10BE, 14, 15, 20D, 26, 26D, BSP, WSP
- Furnished with no. 97 rosette and compression spring when supplied without hardware
- Screw pattern same as standard rim cylinder
- Available in 42 (1-1/4"), 43 (1-3/8"), 44 (1-1/2"), or 46 (1/34") lengths
- Supplied with backplate and 2 breakaway screws
- Horizontal tailpiece

#### **Options:**

#### Removable Disposable Construction Core (60- option)

Rim housing with disposable plastic core	• Order as: DG1-34-60- x finish
• After removal of temporary plastic core, housing accepts DG-6300	DG2-34-60- x finish
Operates with coin or flat screw driver	DG3‡-34-60- x finish
Easy installation	

### Removable Core (63- option)

Rim housing with DG LFIC	• Order as: DG1-34-63- x finish
Can be master or grandmaster keyed	DG2-34-63- x finish
Control key releases locking cam for removal of core	DG3‡-34-63- x finish
<ul> <li>Available as unassembled less springs, pins and slide (65- available DG1 &amp; DG2 only)</li> </ul>	
Control keys ordered separately	
Additional control keys for DG1 systems: DG6272CTL; cor	trol keys for DG2 and DG3 systems: DS6272CTL
Removable Construction Keyed LFIC (64- optio	n)
Mortise housing with construction core	• Order as: DG1-34-64- x finish

DG-64- Rim Housings with Construction Core

• Furnished with 6 keys and 1 control key standard • Plug face dimpled for easy identification

• Construction cores are keyed alike in KA keyset

• After removal of construction core, housing accepts DG-6300

#### How to order 6300 Series LFIC DG rim cylinders less hardware

	Quantity	Options*	Cylinder Type	Keyset	Finish
Complete Cylinder: DG-LFIC and Housing	200	DG2-63-	34	AA1	26D
Rim Housing Only	175	DG1-60-	34	-	26D
LFIC Only	95	DG2-6300	-	AA1	15
* Aurileble antionafer Denne Dire Culindern and DC1, DC2, DC2, C0, C2, C4, C5					

Available options for Degree Rim Cylinders are: DG1-, DG2-, DG3-, 60-, 63-, 64-, 65- أ Note: Cores are available in 04 & 15 finish

#### How to Order LFIC DG Series Rim Cylinder with Hardware (80 Series Exit Device example)

Quantity	Options**	Series & Function	Rail Size	Trim	Finish	Hand	Keying Detail
50	DG2-63-	8804	F	ETL	32D	LHR	AA1
** Available options for Degree Rim Cylinders are: DG1-, DG2-, DG3-, 60-, 63-, 64-, 65-							

DG2-34-64- x finish

DG3‡-34-64- x finish



Notes: • DG3 cores must be used with DG3 housings to maintain UL437 listing

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### **Fixed Core Component**

For use with SARGENT Cylindrical Lever, Knob Locks and Auxiliary Locksets



Key-in-knob (KIK), Key-in-lever (KIL) Fixed Core (FC)

#### How to Order DG Series Lever & Knob Cylinders less hardware

Quantity	Degree Level	Catalog No	Keyway	Finish**	
75	DG1, DG2 or DG3	C10-1	TA	04	

• Furnished factory keyed and only DG1 and DG2 are offered with the 65- option of unassembled for field keying. 65- cylinders include two key blanks but no pins, springs or slide \*\* Available in 04 and 15 finishes only

#### Options

- Construction Master Keying (21- option)
  - Allows use of construction keys until change key voids operation
  - Ships with 6 master construction keys separate from change keys
- Unassembled Cylinder (65- Option) – DG1 and DG2 only
  - Includes two key blanks but no pins, springs or slide
  - When ordered with hardware, 65-DG cylinders are packed uninstalled with hardware
  - Available on existing systems only

#### **Designations & Options for Degree Series Components**

SARGENT Lockset	Degree Level	Catalog No	Finish	Function
11 Line Locks	DG1, DG2 or DG3	C11-1	US 04 or US 15	All functions except 50 function
	DG1	C11-2	US 04 or US 15	Hotel function (50-)
10, 7, 7500* Line (Levers) & 6500 Locks & 88KL,	DG1, DG2 or DG3	C10-1	US 04 or US 15	All functions except 50 function
88CL, 28KL, 28NL & 28CL Exit Trims	DG1	C10-2	US 04 or US 15	Hotel function (50-)
7*, 8* & 9* Line Knob Locks	DG1, DG2 or DG3	C8-1	US 04 or US 15	All functions except 50 function
	DG1	C8-2	US 04 or US 15	Hotel function (50-)
8X Line Cylindrical Knob Locks	DG1, DG2 or DG3	C8X-1	US 04 or US 15	
6 Line Cylindrical Locks	DG1, DG2 or DG3	C6-1: S&M Knob C6-1B: B Knob	US 04 or US 15	
7600 Integralock*	DG1, DG2 or DG3	C7600-1 for functions 04, 05, 37	US 04 or US 15	

Note: All cylinders supplied with two change keys; for lock functions that have two cylinders keyed alike, only two change keys will be provided \* Discontinued products

Hotel Functions (50) are not available with 9 Line knobs, 7 Line levers, 7500 Interconnected, 6500 Locks, & Exit Trims. Emergency key to be ordered separately for bored locks as DG6267EMK

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## Cylinders for Deadbolts & Padlocks & Cylinder Finishes

Degree<sup>®</sup> Key System

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#### **Bored Auxiliary Deadlocks**

For use with Bored Auxiliary Deadlocks

SARGENT Lockset		Degree Level	Catalog No	Finish	Function
460* Series Deadbolt	DG1, DG2 or DG3	C460-1	US 04 or US 15	464	
	DG1, DG2 or DG3	C460-2	US 04 or US 15	465	
450*, 470, 480 Series Deadbolts	DG1, DG2 or DG3	C480-1	US 04 or US 15	454, 474, 484	
	DG1, DG2 or DG3	C480-2	US 04 or US 15	455, 475, 485, 487	
	DG1, DG2 or DG3	C480-3	US 04 or US 15	456, 486	
758 & 858 Padlocks		DG1, DG2 or DG3	C750-1	US 04 or US 15	758 and 858 padlocks

Note: All keyed cylinders supplied with two change keys. For lock functions that have two cylinders keyed alike, only two change keys will be provided

• Only DG1 and DG2 are offered with the 65- option of unassembled for field keying. 65- cylinders include key blanks but no pins, springs or slide

• When hardware is ordered with 65- cylinders, it will ship uninstalled with hardware

SARGENT Code	ANSI/BHMA Code	Finish Description
03	605	Bright Brass, clear coated
04	606	Satin Brass, clear coated
09	611	Polished Bronze, clear coated
10	612	Satin Bronze, clear coated
10B	613	Satin Bronze, oxidized and oil rubbed
10BE	613E	Dark Oxidized Satin Bronze - Equivalent
10BL	614	Satin Bronze, oxidized and clear coated
14	618	Bright Nickel
15	619	Satin Nickel
20D	624	Statuary Dark Bronze, clear coated
26	625	Bright Chrome Plated
26D	626	Satin Chrome Plated
BSP	BSP	Black Suede Powder Coat
WSP	WSP	White Suede Powder Coat

#### Finishes available for Mortise and Rim Cylinders°

°Key-in-knob/Key-in-lever and LFIC are available 04 and 15 finishes only **Note:** 32 & 32D finished hardware will be supplied with 26 & 26D finished cylinders accordingly

\* Discontinued products

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## 6300 Series DG- Conversion Parts, Slide Block Kit & Shear Tool

Degree<sup>®</sup> Key System

## SARGENT ASSA ABLOY

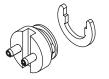
### SARGENT 6300 Series Housings and KIL/KIK Locks

Older 6300 series mortise and rim cylinders with long pins in the housings will need to be modified to accept 6300 Series DG- cores.

KIL/KIK lock sets with removable tail pieces will require new tail pieces

as shown below.

### 6300 Series DG- Conversion Parts for #34 rim cylinders, 8-Line knob locks and 480 Series deadbolts



Kit # 13-5178 is used to convert rim cylinders with long pins to accept 63-DG Series cores and 11-63-series cores



11-63-8-Line knobs



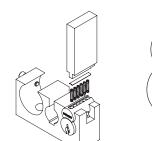
DG-63- Series and Cam Assembly for 11-63-Deadbolts

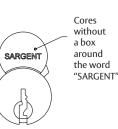
## Kit # 16-2508 for

- Includes fixture and staking tool for use with all DG- 6300 cores, and 11- and 10- 6300 series cores manufactured after March 2006 and standard cylinders manufactured after May 2008, simplifying top loading in the field.
- The kit includes:

436-1 Slide Block Kit

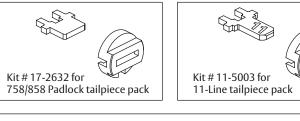
- 100 slides
- staking block
- staking tool
- Cylinders manufactured after March 2006 will not include the box around the SARGENT logo and can be used with this kit.
- Additional slides available:
  - 7 pin slides (Part # 13-1797)
  - 6 pin slides (Part #13-1341)

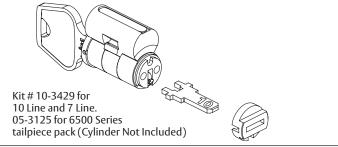




6300 Series DG- Conversion Parts for 758/858 Padlocks, 11 Line (T-Zone), 10, 7, 6500 Line

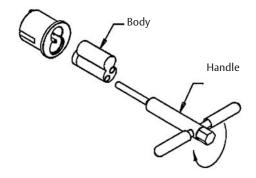
Note: Only existing 6300 cores with removable tailpieces can be upgraded to Degree without modifying the lock





### 431-6 Shear Tool

- 431-6 Shear Tool is used to alter older SARGENT 60-/63- mortise housings to accept 6300 Series DG cores and 11-6300 series cores. Altered housings will accept 6300 DG1-, DG2- and DG3- cores. •
- Note: DG3- cores with altered housings are not UL437 listed, DG3 cores require DG3 housings to be UL437 listed
- For 6300 rim cylinders use Kit #13-5178



#### 6300 Large Format Interchangeable Core Installation Tool (432 RC)



- The 432 RC is a tool to assist in installing SARGENT Large Format Interchangeable (Removable) Core Mortise Housings. This tool makes it easy to thread a cylinder body into a mortise lock and can also help check the cylinder function in a lock before installing the cylinder core
- Order: 432 RC for the SARGENT Large Format Interchangeable (Removable) Core Installation Tool

1-800-727-5477 • www.sargentlock.com



## Degree<sup>®</sup> Pin Kits

Degree<sup>®</sup> Key System

437 DG1 Standard Pinning Kit

The 437 DG1 Kit is used to pin DG1 fixed and LFIC cylinders. The heavy duty steel kit prevents pins from mixing.

The kit includes:

100 each of bottom pins sizes 0-6

- 100 each of control drivers sizes 1-12
- 100 each of driver pins sizes 1-10
- 100 each of bump resistant pins sizes 4-10
- 25 sidebar springs part number DG-0059
- 100 KIK spring cover part number 13-1341
- 25 KIL/MRT/RIM/LFIC spring cover DG-0040
- 10 each Sidebar (LFIC only) part number DG-2818
- 100 each compression spring part number DG-0017
- 100 each compression spring (LFIC only) part number DG-0097
- Tweezer
- DG1 key key gauge part number 435DG

See pages 2 and 3 in the Technical Manual for individual pin part #s.

The kit has additional empty compartments for future upgrades to DG2 and DG3 cylinders.

The 437 DGM "Master Kit" has all pins needed for pinning DG1, DG2 and DG3 cylinders.



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437 DGM Master shown

#### 437 DGM Master Pinning Kit

The 437 DGM "Master Kit" includes all pins needed to re-pin DG1, DG2 and DG3 cylinders. Kit includes all the same components as in the 437 DG1 kit, with the additional parts to service DG2 and DG3 cylinders.

10 each Side bar part number DG 0056

- 25 each slider spring part number DG 0060
- 100 each of Left, Center and Right "Chisel Bottom Pins" sizes 1 thru 6

See pages 2 and 3 in the Technical Manual for individual part numbers.

#### **Cylinder Spray Lubricant**

Degree cylinders are mechanical devices and require preventive maintenance. At a minimum, Degree cylinders should be lubricated twice a year; more if installed in extreme installations.

Degree cylinders should not be exposed to chemical washes or painted.

3.0 oz aerosol part number 18-0070

Cylinder Spray Cleaner/Deicer: 3.0 oz aerosol part number 18-0435

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## Rosettes & Collars

## Degree<sup>®</sup> Key System

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#### No. 1KB Rosette



- Used with 8200 Series mortise locks and No. 90 blocking rings when cylinders project from door
- Free spinning to protect cylinder from vandalism
- Consult 8200 series catalog for Rosette application details. Different collars required when used with exit devices. Consult Exits catalog for part numbers
- Furnished standard with 8200 Series sectional trim
- Cast brass, bronze or stainless steel
- 1-1/2" (38mm) diameter, includes compression spring

•	Projection from door:		
	1KB-1	5/16" (8mm)	
	1KB-2	7/16" (11mm)	
	1KB-3	9/16" (14mm)	
	1KB-4	11/16" (16mm)	

• Finishes: 3, 4, 9, 10, 10B, 10BE, 10BL, 15, 20D, 26, 26D, BSP, WSP

### Cylinder Nut Wrench



This wrench simplifies the installation and removal of mortise cylinders nuts used on 700 Series Auxiliary Control (80 Series ET Trim).

• Part number 97-0568

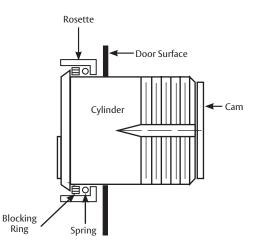


- Standard for cylinders ordered separately from hardware
- Standard for 4800 dead bolts and 7900 and 7800 Series mortise locks
- Brass, bronze or stainless steel
- 1-11/16" diameter (43mm), 9/32" (7mm) projection, includes compression spring
- Finishes: 3, 4, 9, 10, 10B, 10BE, 10BL, 15, 20D, 32, 32D, BSP, WSP

#### No. 90 Blocking Ring



- Used with 1KB-2 and 1KB-3 rosettes as spacer when mortise cylinder projects from face of door as shown above
- Consult 8200 series catalog for Blocking ring application details
- Brass, bronze or stainless steel
- 1-3/8" (35mm) diameter; available in thickness of 1/16", 1/8", 3/16", 1/4" and 3/8" projection in 1/16" (1.6mm) increments. Specify size when ordering.
- Finishes: 3, 4, 9, 10, 10B, 10BE, 10BL, 15, 20D, 26, 26D, BSP, WSP



Crosscut illustration of rosette application

## Visual Key Control Tamper Proof Packaging

### Degree<sup>®</sup> Key System

#### Visual Key Control (Stamping)

To allow for easier key and cylinder identification, SARGENT offers permanent stamping of keys and/or optional cylinder concealed stamping with industry standard alpha-numeric key set symbols.

All DG keys are stamped with key set symbol and "DO NOT DUPLICATE" as standard.

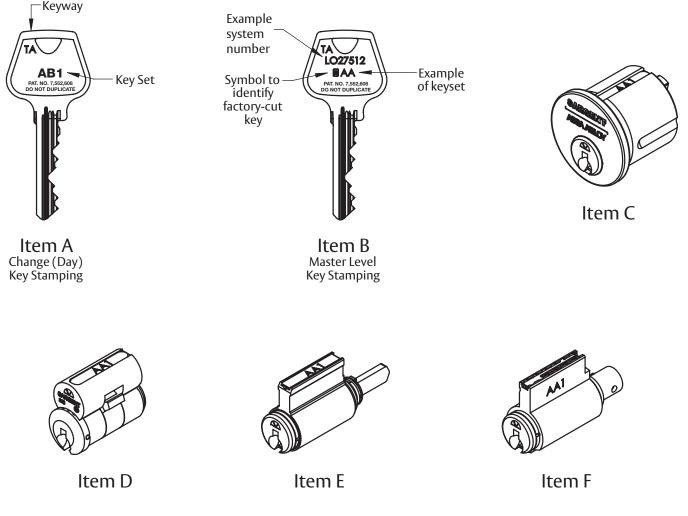
All DG master and control keys are stamped with the key set symbol and the key system register # cylinders as standard, (Item B) unless alternate stamping is requested on the order.

Master level keys do not include bitting numbers. Master level keys include system register numbers stamped on the first line and the standard visual key control designations on the second line (Item B).

Change keys have one line for up to 7 characters for key set stamping available for permanent Visual Key Control

- Key and cylinder identified by industry standard alpha-numeric keyset symbols
- Cylinder-slide stamping available on mortise, rim, LFIC and all bored cylinders except for 8-Line and 7600 (Items C, D, & E)
- Core side engraving available for 8-Line and 7600 (Item F)

Note: SARGENT will stamp alternate identity codes on cylinders and/or keys whenever requested. This alternate stamping can not be different if both are to be stamped. Master Level Keys can also be stamped with a single alternate code



#### **Tamper Proof Packaging**

For the highest level of security for the end user, tamper proof packaging is used on all Degree master keys and key blanks. This heat sealed shrink wrap identified with "SARGENT Sealed For Your Security" provides assurance of the integrity of the factory generated key system.

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## Degree<sup>®</sup> Key System

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Master Key Blanks*			
DG1	DG 6270 TN		
DG2- or DG3-	DS 6270 TN		
DG1	DG 6270 TDH		
DG2- or DG3-	DS 6270 TDH		
DG1	DG 6270 THM		
DG2- or DG3-	DS 6270 THM		
DG1	DG 6270 TD		
DG2- or DG3-	DS 6270 TD		
DG1	DG 6270 TH		
DG2- or DG3-	DS 6270 TH		
DG1	DG 6270 TM		
DG2- or DG3-	DS 6270 TM		

Change Key Blanks*				
DG1	DG 6275 TA			
DG2- or DG3-	DS 6275 TA			
DG1	DG 6275 TB			
DG2- or DG3-	DS 6275 TB			
DG1	DG 6275 TC			
DG2- or DG3-	DS 6275 TC			
DG1	DG 6275 TE			
DG2- or DG3-	DS 6275 TE			
DG1	DG 6275 TF			
DG2- or DG3-	DS 6275 TF			
DG1	DG 6275 TG			
DG2- or DG3-	DS 6275 TG			
DG1	DG 6275 TJ			
DG2- or DG3-	DS 6275 TJ			
DG1	DG 6275 TK			
DG2- or DG3-	DS 6275 TK			
DG1	DG 6275 TL			
DG2- or DG3-	DS 6275 TL			

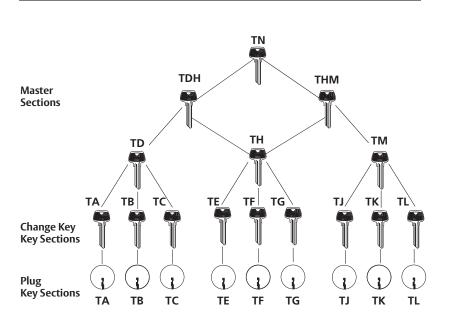
## For Multiplex Masterkey Systems

Legend:

DG = DG1- keys only DS = DG2- & DG3- keys CMK = construction master key

CTL = control key MK = master key CHK = change (day) key

(T keyway family shown)





\* Key blanks are made of Nickel Silver and sold in boxes of 50

Degree Cut Keys				
DG1	DG6272CMK	21-		
DG1	DG6272CTL	6300s		
DG1	DG6272MK			
DG!	DG6272CHK			
DG2 or DG3	DS6272CMK	21-		
DG2 or DG3	DS6272CTL	6300s		
DG2 or DG3	DS6272MK			
DG2 or DG3	DS6272CHK			

Emergency Master Keys				
DG1	DG6267EMK	bored locks		
DG1	DG7268EMK	mortise locks		
DG1	DG7269EMK	63- cylinders in mortise locks		

Construction Keys				
DG1/DG2/DG3	6251CMK	64-		
DG1/DG2/DG3	6251CTL	64-		

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# Master Keying & Cylinder Terms

### Degree<sup>®</sup> Key System

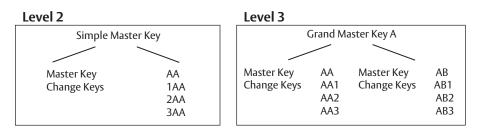
SARGENT requires all orders containing Master Keying details to be submitted using the industry standard Door and Hardware Institute (DHI) ANSI/BHMA format. Key symbols used on a master keyed order require combinations of letters and/or letters and numbers.

For complete details on proper structuring format of key symbols refer to: DHI Handbook, Section 8 - Finish Hardware, KEYING SYSTEMS AND NOMENCLATURE; ANSI/BHMA Standard A156.28, AMERICAN NATIONAL STANDARDS FOR KEYING SYSTEMS; or contact SARGENT for assistance at 1-800-727-5477.

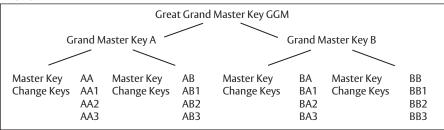
### **Basic Keying Terms**

Keys and terms	Abbreviation	Definition
Change key	СК	Individual lock key
Masterkey	МК	Operates any given quantity of cylinders with different key changes
Grand Masterkey	GMK	Operates all individual locks already operated by masterkey(s)
Great Grand Masterkey	GGMK	Operates all locks under the various masterkey(s) and grand master key(s) already established
Emergency Key	EMK	Operates hotel locks having shut out feature which blocks entry by all other keys
Construction Key	СМК	Operates all cylinders designated for a temporary period during construction
Control Key	CTL	Key to install or remove interchangeable or removable cores
Keyway	KWY	Broaching in a cylinder plug
Key Section	KWY	Sidewarding on key to match broaching in plug
Single Keyed	SKD	Cylinders operated by their change key only; not operated by any master key

### Examples of Master Key System Levels and Symbol Structure\*\*



Level 4



\*\*Master key system levels greater than Level 4 are not recommended. Contact SARGENT key records for additional information

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### Degree<sup>®</sup> Key System

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### Construction Master Keying (Lost/Wafer Design) for DG1-, DG2- & DG3-

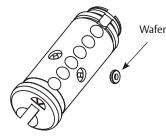
SARGENT Degree cylinders when master keyed are offered with the convenience of construction keying when specified with the 21- option. This is not recommended with DG3 key systems or any system where strict key control and management is enforced.

Construction keying simplifies the process when the building gets turned over. With this feature, the 21- cylinder is master keyed with a special construction feature in one of the chambers. The plug is prepped in two places along both sides of the same chamber containing the construction feature. This allows the construction master key to be used during the construction phases.

It is highly recommended that all construction keys are collected and accounted for once the project is complete to protect the integrity of the key system. This is not recommended with DG3 key systems or any system where strict key control and management is enforced. New systems supplied with 6 construction master keys unless otherwise specified. Orders to existing key systems that require additional construction keys are to be specified and ordered separately.

Orders with 21- will have all change keys shipped separately from hardware. Six construction master keys provided per system unless otherwise specified.

The 21- is not available with hotel function cylinders or large format interchangeable cores (6300 series). If construction keying is required for LFIC, specify 64-DG- construction keyed cores.





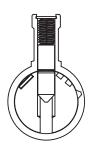
Cutaway cylinder showing construction master key being used, putting the wafer below the shear line while key is turned. Note the two empty "donut" holes on either side of the chamber.



Change key inserted in cylinder putting the wafer at the shear line.



As **change key** rotates, construction wafer falls into "donut" hole in the side of plug. Only construction wafer will fall due to hole through its center. This voids the construction feature.



Change key rotated to position for extraction.



Construction key inserted after wafer is trapped. Driver now extends into plug chamber. Construction key if used will not rotate.

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# KeyWizard™ Key Management Software

### **Cylinders and Components**

### SARGENT'S KeyWizard™ 5.5 Software Package Tracks Multiple Key Systems Including Keys, Keyholders, Locations, and Hardware Information

This comprehensive key management software package was developed for locksmiths and end-users to track detailed information.

The program features easy to navigate, non-cluttered screens and uses a format similar to Microsoft® Outlook™.

### Features:

- Free Technical Support at 1-800-610-1706 and system upgrades for 1 year
- Website support at www.keywizard.net
- Multi-level passwords and access levels ٠
- Clear, easy to read screens .
- Manages multiple end user key systems
- Customized query, reporting and search capability ٠
- Global searching across multiple key systems
- Comprehensive hardware schedules
- Keyholder photos and signatures for identity verification
- Scheduled maintenance and reminders for overdue keys and back-ups

### How to order for new users:

Single License Version — KW-SS1 Network Version — KW-SSN1 Demonstration Version - KW-DEMO1

How to order, if upgrading from KeyMinder\*:

Single License Version — UP-KW-SS1 Network Version — UP-KW-SSN1

\*consult factory for eligibility requirements

### **Keying Data**

key deposits Network and stand-alone versions

Accurate key symbol sorting

Multi-level key authorizations and

- Pinning calculators
- Reports options including printing in a variety of formats and e-mail
- Cylinder and key random serial ID generator
- Key authorization forms that can be printed at will
- Editable field titles
- Ability to connect to a website and search for any updates

### Keying data (key sets and bittings) is available for order with new or existing systems to eliminate the need for manual data entry into Key Wizard. Place order based on size of system.

Part Number	Description
DLKW1	1 to 50 bittings
DLKW2	51 to 200 bittings
DLKW3	201 to 1000 bittings
DLKW4	1001-3000 bittings
DLKW5	3001-6000 bittings
DLKW6	6001-9000 bittings
DLKW7	Over 9000 bittings

### **Computer System Recommendations:**

- **REQUIRED:** 
  - 350 MHz processor
  - 60 MB hard disk space
  - Windows<sup>®</sup> 7, Vista, XP, NT, ME, 2000 or 98
  - 64MB Ram
  - CD drive

### **RECOMMENDED For Better Performance:**

- 500 MHz or faster
- 70 MB or more
- Windows® 7, Vista, XP, NT, ME, 2000 or 98
- 64MB Ram CD drive

### **BITTING LISTS**

Paper bitting lists provided at no charge for factory corresponding keyed orders when requested at time of hardware order. An owners letter of authorization must be attached to all purchase orders. Existing key system bittings lists are also available contact key records for more information.

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# Architectural Specifications

### Degree<sup>®</sup> Key System

### Part 1 – General

Keying Schedule—

- The keying schedule is just as important as the hardware schedule
- The key meeting requirements

### Who attends

Example: "Upon approval of the finish hardware schedule meet with the owner's representative to determine the project's keying requirements. In attendance shall be a Certified Key System Specialist."

# Administrative documents should be reviewed and executed at this meeting.

Delivery, Storage and Handling-

• The delivery and storage of the permanent cylinders, cores, keys,

key control software

Extra Material—

• Consideration should be given to include additional permanent cylinders, key blanks and key cutting equipment, etc

### Part 2 – Product

Keying: (SARGENT Degree)—

All cylinders shall be SARGENT Degree. Provide utility patented cylinders that require the use of a patented controlled key. Provide bump resistant fixed core mortise and rim cylinders standard. Except where otherwise specified all locksets, exit devices and cylinders shall be of the same

manufacturer. Provide recessed cylinder collars for all mortise and rim cylinders. Establish a new multilevel factory designed secured master key system for this project that will meet the owners requirements for this project and future expansion. All keying shall be done at the factory where permanent records will be established and maintained. Manufacturer to have a minimum of 10 years experience designing secured master key systems and have a published security policy.

Provide a 6 pin multilevel master key system which is comprised of patented controlled keys, security and high security cylinders that can all be operated by ONE key of the highest level. Geographical exclusivity shall be provided for all security and high security cylinders. Provide

certified cylinders meeting ANSI/BHMA A156.5-2010 Grade 1. Provide mortise, rim and key-in-lever cylinders certified to UL437 where specified.

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Provide construction master keying for all fixed core cylinders. Provide temporary keyed cores for all large formatted interchangeable core cylinders. Permanent keys and cores are to be delivered directly to the owner or owner's representative. Provide nickel silver keys with industry standard Visual Key Control stamping on the bow only for each permanent cut key. Furnish keys in the following quantities.

- 1 each top master key for the system(s)
- 4 each Change keys per cylinder or 10 keys per keyed alike group
- 2 each Control keys (if required)
- 2 each Master keys per master key group and/or selective master key
- 2 each Construction control keys (if required)
- 12 each Construction keys
- Provide 1 copy of bitting list to the owner

Where specified DG1; provide utility patented controlled keyway cylinders that are furnished with patented keys that are only available from authorized distribution. Provide bump resistant fixed core mortise and rim cylinders standard. Where specified DG2; provide utility patented controlled keyway and side bar locking incorporating unique angled bottom pins that provide end users with geographical exclusivity. Cylinders shall be constructed to provide utility patented controlled keyway and side bar locking incorporating and picking. Where specified DG3; provide utility patented controlled keyway and side bar locking incorporating unique angled bottom pins that provide end users with geographical exclusivity. Cylinders shall be constructed to provide protection against bottom pins that provide end users with geographical exclusivity. Cylinders shall be constructed to provide protection against bumping, picking and drilling. Provide mortise, rim and key-in-lever cylinders certified to UL437.

Specified manufacturer Sargent Degree Key Control

Specify Key Wizard software

### Part 3 – Execution

Care should be taken to identify the required process of turning over a patented locking system to the owner.

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### Degree<sup>®</sup> Key System

### Degree DG1 Required Administrative Documents:

- <u>Mandatory</u>; all new systems will require a completed System Information Document (orders can not be entered without this document). The fully executed original document will be kept on file at Sargent Manufacturing.
- Subsequent order requirement. A letter of authorization will be required if the product is shipped to an address other than what's recorded on the System Administration Document, and/or if the address on the purchase order is different than what is listed on the System Information Document.

### Degree DG2 & DG3 Required Administrative Documents:

- <u>Mandatory</u>; all new systems will require a completed System Information Document (orders can not be entered without this document). The fully executed original document will be kept on file at Sargent Manufacturing.
- Subsequent order requirement: A specific randomized security code will be required for each order unless "Opt-Out" has been authorized by the systems administrator.
- If the "Opt Out" option is **NOT** selected
  - o A correct system specific (randomized) security code must be included with each subsequent order.
    - Security codes are specific to each order.
  - o If the shipping address is other than the one listed on the System Information Document, a Letter of Authorization signed by one of the recorded authorized representatives of the facility is required.
  - o Letter of Authorization must contain the same shipping address that appears on the customer's Purchase Order.
  - o Letters of Authorization will not be kept on file at factory.
  - o Without the proper security code, Letter of Authorization, or if the shipping address is other then what's listed on the System Information Document, the order cannot be processed.
- If the System Administrator elects not to use security codes as part of the authorization process, the "Opt Out" option can be authorized by the system administrator.
  - o If the "Opt Out" option IS selected
    - A system-specific security code is not required.
      - Letter of Authorization must be signed by one of the facility's authorized representatives.
      - If the shipping address is other then the one listed on the System Information Document, a Letter of Authorization will be required.
      - Letter of Authorization must contain the same shipping address that appears on the customer's Purchase Order.
      - Letters of Authorization will not be kept on file at factory.

### **Degree CLIQ Required information:**

- <u>Mandatory</u>: In addition to the above information Degree CLIQ systems require Time Zone and Daylight Savings information.

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# Degree® System Information Document

### Degree<sup>®</sup> Key System

System: DG1 DG2 / DG3 CLIQ	IMPORTANT: Sargent Degree Product is available with a "0" cut depth for DG1 systems <b>only</b> and it is not available for use in a DG2 or DG3 security level product If there is a possibility to elevate the DG1 system to DG2 or DG3, any master keying expansion requests should be discussed with a Sargent Key Records team specialist."		
<b>Note:</b> Degree SID is required with every initial order			
Facility Name:	-		
Mailing Address:	Shipping Address:		
City:	City:		
State/Province:Zip/Postal Code:	_ State/Province:	Zip/Postal Cod <u>e:</u>	
Phone: ( )			
Fax: ()	Time Zone:		
E-Mail:	Daylight Savings:		
By:(Print Name, Primary Systems Administrator)	(Title)	(Authorized Signatures)	
for any reason whatsoever, it is my responsibility to notify SA and the names of their replacements. Date:			
Authorized Facility Representatives (Print Name)	(Title) 	(Authorized Signatures)	
Please attach any additional Authorized Facility Representatives <b>"OPT-OUT" Option (System Type DG2 &amp; DG3 Only):</b> By numbered registration certificates and agree to substitu	selecting this option I o ute them with a Letter		
<b>Note:</b> Use this form along with the keying cover sheets found	when selecting to "	Opt-Out".	

The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, locks, perimeter fencing, access control and service.



SARGENT Manufacturing Company 100 Sargent Drive New Haven, CT 06511 USA 800-727-5477 www.sargentlock.com

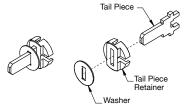
Founded in the early 1800s, SARGENT® is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, nenovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets.

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### Degree Removable Core Tail Piece Installation for 10 Line Electromechanical Locks



Assemble as shown and install onto permanent core cylinder.



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# All Secure.



# Degree<sup>®</sup> Patented Key System Custom Security for Every Opening



ASSA ABLOY, the global leader in door opening solutions

# degree®

## The Right Degree of Protection.

The patented Degree system from SARGENT provides the right level of security for each opening in your facility with three levels of ANSI/BHMA Grade 1 protection, from patented keyway to UL437 certified. A common key for all three levels of security enhances key control and simplifies administrative procedures. Key blanks are controlled through authorized distribution and geographical protection is available. Available for mortise, rim, component and Large Format Interchangeable Core (LFIC) cylinders, SARGENT offers the right Degree of protection for every door in your facility.



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### Features

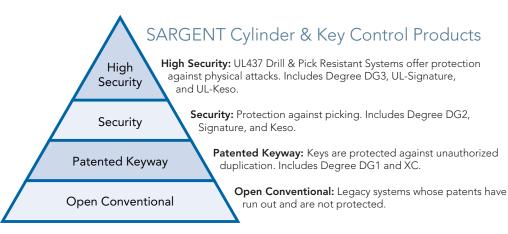
- Utility patented keys and cylinders through 2027
- Three levels of utility-patented security:
- DG1: Key blanks available to authorized SARGENT distributors; bump resistant with patented keys
- DG2: Geographically exclusive by end user; bump and pick resistant
- DG3: Geographically exclusive by end user; UL437 certified; bump and pick resistant
- Keys can be common between security levels
- New keyway families for all levels
- Construction master keying available
- ANSI/BHMA Grade 1 certified
- Available uncombinated, master keyed or grandmaster keyed
- Bump resistant standard\*

### Available as:

- Mortise Fixed and Interchangeable Cylinders
- Rim Fixed and Interchangeable Cylinders
- Component
- LFIC

### Benefits

- Patented protection from unauthorized key duplication through 2027
- New keyway family protects system integrity from legacy systems
- Keys are significantly stronger than competitive systems
- User-friendly design with minimal components provides easy field service
- Availability in all existing SARGENT cylinder types provides cost-effective upgrade for SARGENT facilities
- Bump resistance for added protection



\* Not available on DG1 LFIC

### SARGENT Manufacturing Company 800-727-5477 • www.sargentlock.com

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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.





# Degree® Key System

# Technical Manual



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Degree<sup>®</sup> Key System Technical Manual

# SARGENT<sup>®</sup> ASSA ABLOY

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DG1-41 Mortise cylinder, Degree Key and Degree DG1-6300 series core

# The Degree<sup>®</sup> Advantage

Degree<sup>®</sup> Key System Technical Manual



### The Degree Key System

The patented Degree system from SARGENT provides the right level of security for each opening in your facility. Three levels of ANSI/ BHMA Grade 1 protection, from patented keyway to UL437 certified, secures every opening. A common key for all three levels of security enhances key control and simplifies administrative procedures. Key blanks are controlled through authorized distribution and geographical protection is available. Available for mortise, rim, component and Large Format Interchangeable Core (LFIC) cylinders, SARGENT offers the right Degree of protection for every door in your facility.

### Benefits

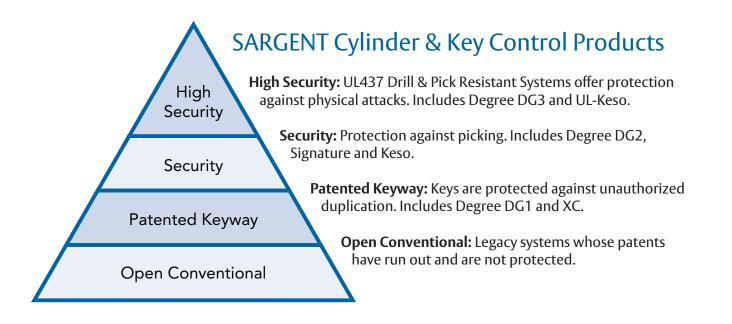
- Patent protection from unauthorized key duplication through 2027
- New keyway family protects system integrity from legacy systems
- Keys are significantly stronger than competitive systems
- User-friendly design with minimal components provides easy field service
- Availability in all existing SARGENT cylinder types provides cost-effective upgrade for SARGENT facilities
- Bump resistance for added protection

**Degree Level 1** (DG1) features a utility patented keyway and provides protection against bumping for mortise, rim and component fixed cylinders. These cylinders easily retrofit into existing hardware and are appropriate for most applications. The keys for DG1 can only open DG1 cylinders.

**Degree Level 2** (DG2) builds on the utility patented keyway of DG1 and adds patented side bar locking with unique angled bottom pins that provide end users with geographical exclusivity. Cylinders provide protection against bumping and picking. Because of its superior key control and patent protection until 2027, DG2 products are recommended for use in conjunction with DG3 for new installations or when retrofitting systems, including large format interchangeable core systems.

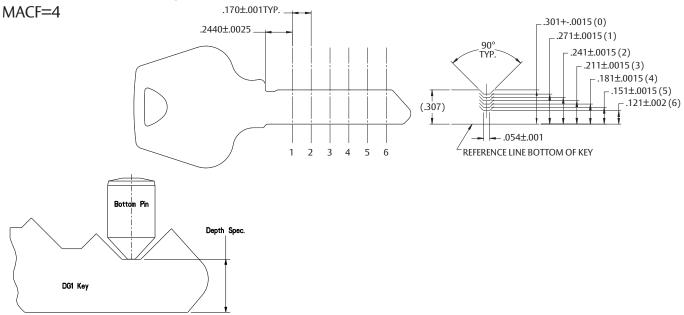
Degree Level 3 (DG3) combines the utility patented keyway and side bar locking with unique angled bottom pins that provide end users with geographical exclusivity, and adds certification to UL437. They are classified as high security because of their superior resistance to physical attack and protection against unauthorized key duplication. Because of its superior key control, patent protection until 2027, and physical strength, we recommend DG3 products for new high-security installations or when retrofitting systems, including large format interchangeable core systems. SARGENT also offers anti-vandal and high security locksets that complement DG3 cylinders for those openings most vulnerable to attack.

IMPORTANT: Sargent DG1 key systems are available with 7 depths of cut while DG2 and DG3 are only available with 6 depths of cut. DG1 systems can utilize all 7 depths in system design <u>only</u> if not integrated with DG2 and/or DG3 systems. If DG1 patent protection is the only requirement in the key system and there is no expectation of combining with DG2 or DG3 levels of security, then all 7 depths are available for use.



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### DG1 cuts from Bow to Tip



### Bottom Pins (BP) for DG1- cylinders

Size #	Part No.	Length
0	DG-0027	.201
1	DG-0021	.231
2	DG-0022	.261
3	DG-0023	.291
4	DG-0024	.321
5	DG-0025	.351
6	DG-0026	.381

### Driver Pins (DP) All Degree 6300 cores

Size #	Part No.	Length
1	DG-0051	.030
2	DG-0052	.060
3	DG-0053	.090
4	DG-0054	.120
5	DG-0045	.150
6	DG-0246	.180
7	DG-0247	.210
8	DG-0248	.240
9	DG-0249	.270
10	DG-0250	.300

### Pin diamaters 0.135

Master Wafers (MW) for all DG- series

Size #	Part No.	Length
1	DG-0051	.030
2	DG-0052	.060
3	DG-0053	.090
4	DG-0054	.120
5	DG-0055	.150
6	DG-0246	.180

### Driver Pins (DP) For all Degree Standard Cylinders

Size #	Part No.	Length
1	DG-0051	.030
2	DG-0052	.060
3	DG-0053	.090
4	DG-0054	.120
5	DG-0045	.150
6	DG-0044	.180
7	DG-0043	.210
8	DG-0042	.240
9	DG-0041	.270
10	DG-0250	.300

### Control Drivers (CD) for all DG- 6300 Large Format Interchangeable Cores (3 & 4 Chambers)

Size #	Part No.	Length
1	DG-0051	.030
2	DG-0052	.060
3	DG-0053	.090
4	DG-0054	.120
5	DG-0045	.150
6	n/a	
7	DG-0247	.210
8	DG-0248	.240
9	DG-0249	.270
10	DG-0250	.300
11	DG-0251	.330
12	DG-0252	.360

### Driver Pins (DP) for Bump Resistance (DG1 Fixed Core Cylinder Only)\*

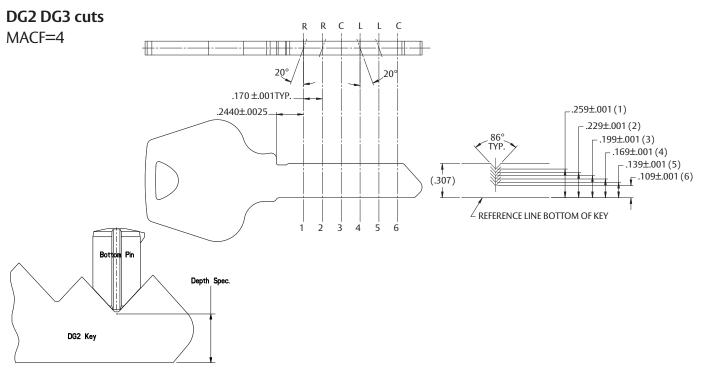
Size #	Part No.	Length
4	DG-0036	.120
5	DG-0035	.150
6	DG-0034	.180
7	DG-0033	.210
8	DG-0032	.240
9	DG-0031	.270
10	DG-0037	.300

\*Not to be used with 6300 series Large Format Interchangeable Cores

Δ

# DG2 & DG3 Key Cuts

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Dimensions shown are to theoretical intersection

### Bottom Pins (BP) for DG2- & DG3- cylinders

First 5 positions (Angled Pins)			
Size #	Angle	Part No.	Length
	L	DG-0111	
1	С	DG-0121	.231
	R	DG-0131	
	L	DG-0112	
2	С	DG-0122	.261
	R	DG-0132	
	L	DG-0113	
3	С	DG-0123	.291
	R	DG-0133	
	L	DG-0114	
4	С	DG-0124	.321
	R	DG-0134	
	L	DG-0115	
5	С	DG-0125	.351
	R	DG-0135	
	L	DG-0116	
6	С	DG-0126	.381
	R	DG-0136	

### Bottom Pins (BP) for DG2- & DG3- cylinders

6th (last) position			
Size #	Part No.	Length	
1	DG-0021	.231	
2	DG-0022	.261	
3	DG-0023	.291	
4	DG-0024	.321	
5	DG-0025	.351	
6	DG-0026	.381	

### Control Drivers (CD) for all DG- 6300 Large Format Interchangeable Cores (3 & 4 Chambers)

Size #	Part No.	Length
1	DG-0051	.030
2	DG-0052	.060
3	DG-0053	.090
4	DG-0054	.120
5	DG-0045	.150
6	n/a	
7	DG-0247	.210
8	DG-0248	.240
9	DG-0249	.270
10	DG-0250	.300
11	DG-0251	.330

### Master Wafers (MW) for all DG- series

Size #	Part No.	Length
1	DG-0051	.030
2	DG-0052	.060
3	DG-0053	.090
4	DG-0054	.120
5	DG-0055	.150

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### Driver Pins (DP) for DG2- & DG3- cylinders and all DG- 6300 Large Format Interchangeable Cores

Size #	Part No.	Length
1	DG-0051	.030
2	DG-0052	.060
3	DG-0053	.090
4	DG-0054	.120
5	DG-0045	.150
6	DG-0044	.180
7	DG-0043	.210
8 DG-0042		.240
9	DG-0041	.270

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# Key Cutting Machines

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### **HPC Machines**

Degree level	Key Cutting Machine	Card #	DSD#	Cutter #	Jaw
DG1	1200 (Blitz)	C389	N/A	CW-90MC	В
DG2/3	1200 (Blitz)	C390	N/A	CW-1012	DJ-1
DG1	Code Max	N/A	DSD389	CW-90MC	В
DG2/3	Code Max	N/A	DSD390	CW-1012	DJ-1
DG1	Tiger Shark	N/A	DSD389	CW-90MC	STD
DG2/3	Tiger Shark	N/A	DSD390	CW-1012	DJ-1S
DG1	Blue Shark	N/A	DSD389	CW-90MC	STD
DG2/3	Blue Shark	N/A	DSD390	CW-1012	DJ-1S

### **ITL Machines**

Degree level	Key Cutting Machine	Vice Insert	Cutter #
DG1	9700A	3	CW-1012
DG2/3	9700A	3M3	CW-1012

### **Framon Machines**

Degree level	Key Cutting Machine	Kit*
DG1	KX-1	KX-DG104
DG2/3	KX-1	KX-DG204

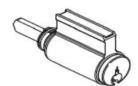
\* Each kit comes complete with cam, cutter, and vice insert

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# Pinning Formula

Degree®	Kev	System	Technical	Manual
Degree	IXC y	System	recificat	manadi

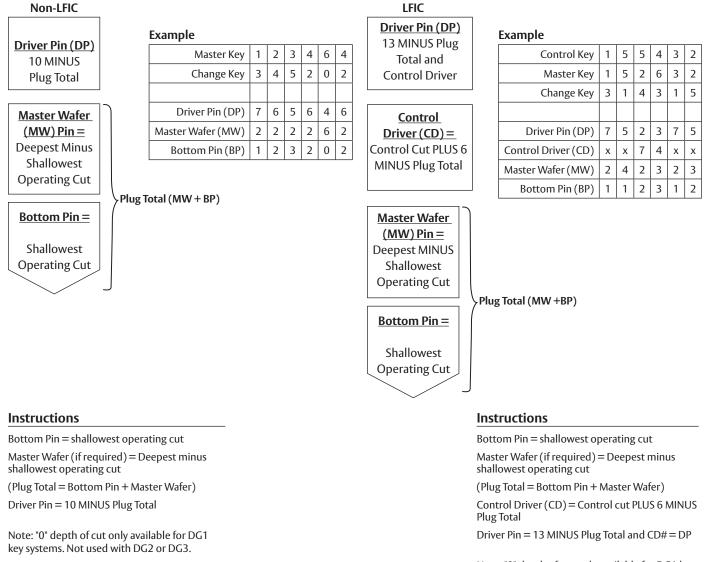




Fixed Core Cylinders - All 6 Chambers Large Format Interchangeable Cores (Chambers 1-2-5-6)



### 6300 Large Format Interchangeable Core -Control Chambers (Chambers 3 and 4 Only)



Note: "0" depth of cut only available for DG1 key systems. Not used with DG2 or DG3.

**Note:** The 50-DG1 hotel mortise cylinder uses 6 pin change/master keys but with a # 5 depth cut in what would be the 7th position at the tip of the key. The 7th chamber is always loaded with a # 5 bottom pin and # 8 driver.

All other chambers are loaded as if a standard fixed core cylinder

For DG1- standard fixed cylinders use spool drivers (DG-0031 through DG-0037) in all chambers where sizes are offered for Bump Resistance.

# Construction Master Keying (21- Option)

### Degree<sup>®</sup> Key System Technical Manual

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### Construction Master Keying (Lost/Wafer Design) for DG1-, DG2- & DG3-

SARGENT Degree cylinders when master keyed are offered with the convenience of construction keying when specified with the 21- option. This is not recommended with DG3 key systems or any system where strict key control and management is enforced.

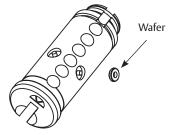
Construction keying simplifies the process when the building gets turned over. With this feature, the 21- cylinder is master keyed with a special construction feature in one of the chambers. The plug is prepped in two places along both sides of the same chamber containing the construction feature. This allows the construction master key to be used during the construction phases.

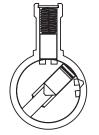
It is highly recommended that all construction keys are collected and accounted for once the project is complete to protect the integrity of the key system. This is not recommended with DG3 key systems or any system where strict key control & management is enforced.

New systems supplied with six construction master keys unless otherwise specified. Orders to existing key systems that require additional construction keys are to be specified and ordered separately.

Orders with 21- will have all change keys shipped separately from hardware. Six construction master keys provided per system unless otherwise specified.

The 21- is not available with hotel function cylinders or large format interchangeable cores (6300 series). If construction keying is required for LFIC, specify 64-DG- construction keyed cores.





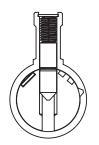
Cutaway cylinder showing construction master key being used, putting the wafer below the shear line while key is turned. Note the two empty "donut" holes on either side of the chamber.



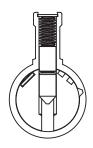
Change key inserted in cylinder putting the wafer at the shear line.



As **change key** rotates, construction wafer falls into "donut" hole in the side of plug. Only construction wafer will fall due to hole through its center. This voids the construction feature.



Change key rotated to position for extraction.



Construction key inserted after wafer is trapped. Driver now extends into plug chamber. Construction key if used will not rotate.

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# Visual Key Control Tamper Proof Packaging

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### Visual Key Control (Stamping)

To allow for easier key and cylinder identification, SARGENT offers permanent stamping of keys and/or optional cylinder concealed stamping with industry standard alpha-numeric key set symbols.

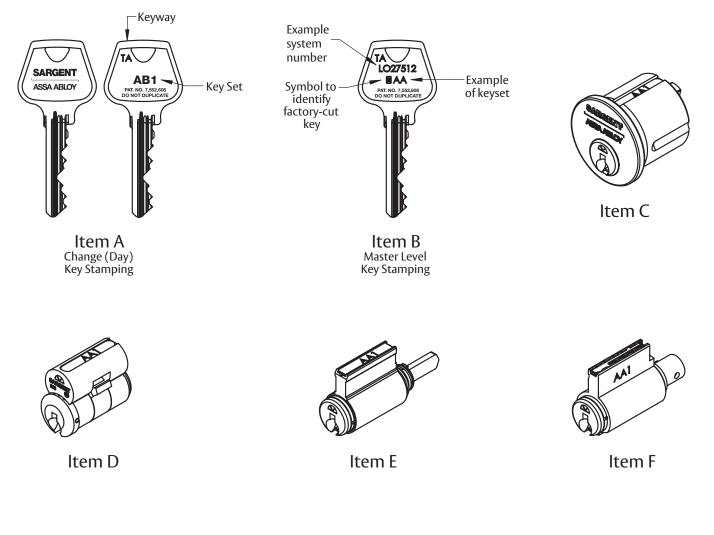
All DG keys are stamped with key set symbol and "DO NOT DUPLICATE" as standard.

All DG master and control keys are stamped with the key set symbol and the key system register # cylinders as standard, (Item B) unless alternate stamping is requested on the order.

Master level keys do not include bitting numbers. Master level keys include system register numbers stamped on the first line and the standard visual key control designations on the second line (Item B).

Change keys have one line for up to 7 characters for key set stamping available for permanent Visual Key Control

- Key and cylinder identified by industry standard alpha-numeric keyset symbols
- Cylinder-slide stamping available on mortise, rim, LFIC and all bored cylinders except for 8-Line and 7600 (Items C, D, & E)
- Core side engraving available for 8-Line and 7600 (Item F)



### Tamper Proof Packaging

For the highest level of security for the end user, tamper proof packaging is used on all Degree master keys and key blanks. This heat sealed shrink wrap identified with "SARGENT Sealed For Your Security" provides assurance of the integrity of the factory generated key system.



# Degree Pin Kits

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Degree®	Kev	Svstem	Technical	Manual

# SARGENT<sup>®</sup> ASSA ABLOY

### 437 DG1 Standard Pinning Kit

The 437 DG1 Kit is used to pin DG1 fixed and LFIC cylinders. The heavy duty steel kit prevents pins from mixing. The kit includes:

- 100 each of bottom pins sizes 0-6
- 100 each of control drivers sizes 1-12
- 100 each of driver pins sizes 1-10
- 100 each of bump resistant pins sizes 4-10
- 25 sidebar springs part number DG-0059
- 100 KIK spring cover part number 13-1341
- 25 KIL/MRT/RIM/LFIC spring cover DG-0040
- 10 each Sidebar (LFIC only) part number DG-2818
- 100 each compression spring part number DG-0017
- 100 each compression spring (LFIC only) part number DG-0097
- Tweezer
- DG1 key key gauge part number 435DG
- See pages 4 and 5 for individual pin part #s.

The kit has additional empty compartments for future upgrades to DG2 and DG3 cylinders. The 437 DGM "Master Kit" has all pins needed for pinning DG1, DG2 and DG3 cylinders.



437 DGM Master Shown

### 437 DGM Master Pinning Kit

The 437 DGM "Master Kit" includes all pins needed to re-pin DG1, DG2 and DG3 cylinders. Kit includes all the same components as in the 437 DG1 kit, with the additional parts to service DG2 and DG3 cylinders.

- 10 each Side bar part number DG 0056
- 25 each slider spring part number DG 0060
- 100 each of Left, Center and Right "Chisel Bottom Pins" sizes 1 thru 6

See pages 4 and 5 for individual part numbers.

### **Cylinder Spray Lubricant**

Degree cylinders are mechanical devices and require preventive maintenance. At a minimum, Degree cylinders should be lubricated twice a year; more if installed in extreme installations.

Degree cylinders should not be exposed to chemical washes or painted.

3.0 oz aerosol part number 18-0070.

Cylinder Spray Cleaner/Deicer: 3.0 oz aerosol part number 18-0435.

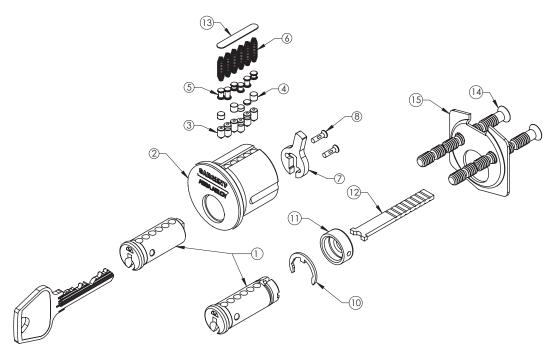
# Cylinder Parts: DG1-34 Rim/ DG1-40 Series Mortise





### DG1-34 Rim/ DG1-40 Series Mortise Cylinder Parts

ltem	Description	Part Number	Where Used / Cy	Where Used / Cylinder Length	
		DG-2894	DG1-34	_	
		DG-2911	DG1-41 & 78-DG1-41	1-1/8" (29mm)	
1		DG-2912	DG1-42 & 78-DG1-42	1-1/4" (32mm)	
	Plug	DG-2913	DG1-43 & 78-DG1-43	1-3/8" (35mm	Plug finishes: 04, 15
		DG-2914	DG1-44	1-1/2" (38mm)	
		DG-2915	DG1-46	1-3/4" (44mm)	
		DG-0621	DG1-41 & DG1-34	1-1/8" (29mm)	
		DG-0622	DG1-42	1-1/4" (32mm)	Shell finishes: 03, 04, 09,
		DG-0623	DG1-43	1-3/8" (35mm)	10, 10B, 10BE, 10BL, 14, 15,
2	Culinder Chall	DG-0624	DG1-44	1-1/2" (38mm)	20D, 26, 26D, BSP, WSP
2	Cylinder Shell	DG-0625	DG1-46	1-3/4" (44mm)	
		DG-0221	78-DG1-41	1-1/8" (29mm)	No finish.
		DG-0222	78-DG1-42	1-1/4" (32mm)	For use with mortise locks
		DG-0223	78-DG1-43	1-3/8" (35mm)	with LE3 or LE4 trim only.
3	Conical Bottom Pin	See Page 4 and 5	DG1-40 Series Mort	ise & DG1-34 Rim	
4	Master Wafer	See Page 4 and 5	DG1-40 Series Mort	ise & DG1-34 Rim	
5	Bump-Resistant Driver Pin	See Page 4 and 5	DG1-40 Series Mort	ise & DG1-34 Rim	
6	Compression Spring	DG-0017	DG1-40 Series Mort	ise & DG1-34 Rim	
7	Cam	See Degree Catalog	DG1-40 Serie	es Mortise	
8	Screw	DG-0016	DG1-40 Serie	es Mortise	# 2-56 x 5/16" (8mm) PH. FL.
10	Retainer	DG-0090	DG1-34 Rim		
11	Tailpiece Retainer	DG-0195	DG1-34 Rim		
12	Tailpiece	DG-0196	DG1-34 Rim		
13	Spring Cover	DG-0040	DG1-40 Series Mortise & DG1-34 Rim		
14	Standard Connecting Screws	13-0074	DG1-34	4 Rim	# 12-24 x 2-1/8" (54mm)
15	Rim Cylinder Back Plate	13-0086	DG1-34	4 Rim	

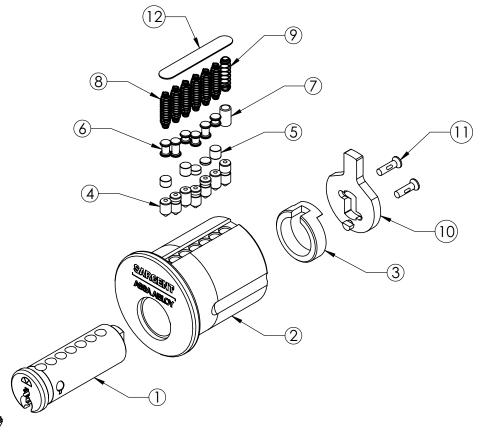


# Cylinder Parts: 50-DG1-40 Series Mortise - Hotel Function



### Degree<sup>®</sup> Key System Technical Manual

ltem	Description	Part Number	Where Used / Cylinder Length		Comment
-		DG-2923	50-DG1-43	1-3/8" (35mm)	
	Plug	DG-2924	50-DG1-44	1-1/2" (38mm)	Plug finishes: 04, 15
2	Cylinder Shell	DG-0310	50-DG1-43	1-3/8" (35mm)	Shell finishes: 03, 04, 09, 10, 10B, 10BE, 10BL, 14, 15, 20D, 26,
2	Cylinder Shell	DG-0311	50-DG1-44	1-1/2" (38mm)	26D, BSP, WSP
_		DG-0314	50-DG1-43	1-3/8" (35mm)	
3	Hotel Function Sleeve	DG-0315	50-DG1-44	1-1/2" (38mm)	
4	Conical Bottom Pin	See Page 4 and 5	All Cylinders		7th chamber always uses #5 bottom pin
5	Master Wafer	See Page 4 and 7	All Cylinders		
6	Bump-Resistant Driver Pin	See Page 4 and 8	All Cylinders		
7	Driver Pin	DG-0042	All Cylinders		7th chamber always uses #8 driver
8	Compression Spring	DG-0017	All Cylinders		Front six pin chambers
9	Compression Spring, LFIC	DG-0097	All Cylinders		Unique to the 7th chamber only
10	Cam	DG-2808	50-DG1-43/44 cylinders only		
11	Screw	DG-0016	All Cylinders		#2-56 x 5/16" (8mm) PH. FL.
12	Spring Cover (7-pin)	DG-0038	50-DG1-43/44	50-DG1-43/44 cylinders only	



**Note:** Hotel function cylinders require planing in the on set of design of a key system, consult key records for compatibility of existing systems

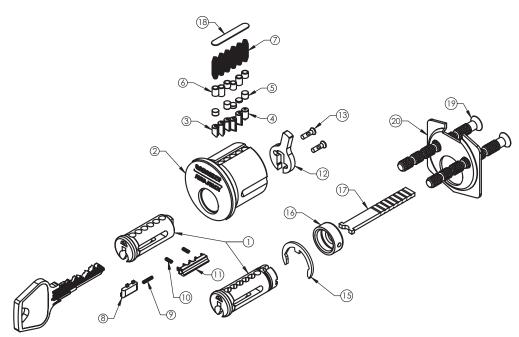
# Cylinder Parts: DG2-34 Rim/ DG2-40 Series Mortise





### DG2-34 Rim / DG2-40 Series Mortise Cylinder Parts

ltem	Description	Part Number	Where Used / Cy	linder Length	Comment
		DG-0191	DG2-34	_	
		DG-0411	DG2-41 & 78-DG2-41	1-1/8" (29mm)	
1	Plug	DG-0412	DG2-42 & 78-DG2-42	1-1/4' (32mm)	
		DG-0413	DG2-43 & 78-DG2-43	1-3/8" (35mm	Plug finishes: 04, 15
		DG-0414	DG2-44	1-1/2" (38mm)	
		DG-0415	DG2-46	1-3/4" (44mm)	
		DG-0631	DG2-41 & DG2-34	1-1/8" (29mm)	
		DG-0632	DG2-42	1-1/4" (32mm)	Shell finishes: 03, 04, 09,
		DG-0633	DG2-43	1-3/8" (35mm)	10, 10B, 10BE, 10BL, 14, 15,
		DG-0634	DG2-44	1-1/2" (38mm)	20D, 26, 26D, BSP, WSP
2	Cylinder Shell	DG-0635	DG2-46	1-3/4" (44mm)	
		DG-0231	78-DG2-41	1-1/8" (29mm)	No finish.
		DG-0232	78-DG2-42	1-1/4" (32mm)	For use with mortise locks
		DG-0233	78-DG2-43	1-3/8" (35mm)	with LE3 or LE4 trim only.
3	Chisel Tipped Bottom Pin	See Page 4 and 5	DG2-40 Series Mortise & DG2-34 Rim		In pin chambers 1 through 5
4	Conical Bottom Pin	See Page 4 and 5	DG2-40 Series Mortise & DG2-34 Rim		In pin chamber 6 only
5	Master Wafer	See Page 4 and 5	DG2-40 Series Mort	ise & DG2-34 Rim	
6	Driver Pin	See Page 4 and 5	DG2-40 Series Mort	ise & DG2-34 Rim	
7	Compression Spring	DG-0017	DG2-40 Series Mort	ise & DG2-34 Rim	
8	Slider C6M6	DG-0087	DG2-40 Series Mort	ise & DG2-34 Rim	For keys with a #6 slider cut
9	Slider Spring	DG-0060	DG2-40 Series Mort		
10	Sidebar Spring	DG-0059	DG2-40 Series Mort	ise & DG2-34 Rim	
11	Sidebar	DG -2818	DG2-40 Series Mort	ise & DG2-34 Rim	
12	Cam	See Degree Catalog	DG2-40 Seri		
13	Screw	DG-0016	DG2-40 Series Mortise		# 2-56 x 5/16" (8mm) PH. FL.
15	Retainer	DG-0090	DG2-34 Rim		
16	Tailpiece Retainer	DG-0195	DG2-34 Rim		
17	Tailpiece	DG-0196	DG2-34 Rim		
18	Spring Cover	DG-0040	DG2-40 Series Mortise & DG2-34 Rim		
19	Standard Connecting Screws	13-0074	DG2-34 Rim		# 12-24 x 2-1/8" (54mm)
20	Rim Cylinder Back Plate	13-0086	DG2-34 Rim		



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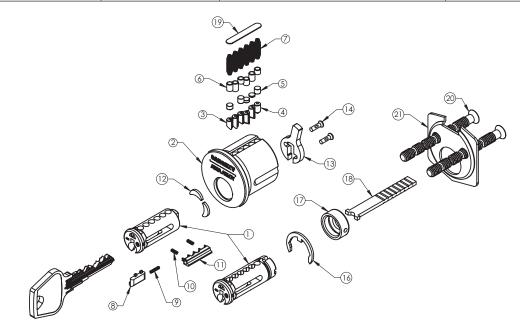
3

# Cylinder Parts: DG3-34 Rim/ DG3-40 Series Mortise

### Degree<sup>®</sup> Key System Technical Manual

### DG3-34 Rim / DG3-40 Series Mortise Cylinder Parts

ltem	Description	Part Number	Where Used / Cy	/linder Length	Comment
	Plug	DG-2895	DG3-34	-	
		DG-2881	DG3-41 & 78-DG3-41	1-1/8" (29mm)	Dive Geichers 04.15
		DG-2882	DG3-42 & 78-DG3-42	1-1" (32mm)	
1		DG-2883	DG3-43 & 78-DG3-43	1-3/8" (35mm	Plug finishes: 04, 15
		DG-2884	DG3-44	1-1/2" (38mm)	
		DG-2885	DG3-46	1-3/4" (44mm)	
		DG-0641	DG3-41 & DG3-34	1-1/8" (29mm)	
		DG-0642	DG3-42	1-1/4" (32mm)	Shell finishes: 03, 04, 09,
		DG-0643	DG3-43	1-3/8" (35mm)	10, 10B, 10BE, 10BL, 14, 15,
2		DG-0644	DG3-44	1-1/2" (38mm)	20D, 26, 26D, BSP, WSP
2	Cylinder Shell	DG-0645	DG3-46	1-3/4" (44mm)	
		DG-0241	78-DG3-41	1-1/8" (29mm)	No finish.
		DG-0242	78-DG3-42	1-1/4" (32mm)	For use with mortise locks
		DG-0243	78-DG3-43	1-3/8" (35mm)	with LE3 or LE4 trim only.
3	Chisel Tipped Bottom Pin	See Page 4 and 5	DG3-40 Series Mortise & DG3-34 Rim		In pin chambers 1 through 5
4	Conical Bottom Pin	See Page 4 and 5	DG3-40 Series Mortise & DG3-34 Rim		In pin chamber 6 only
5	Master Wafer	See Page 4 and 5	DG3-40 Series Mortise & DG3-34 Rim		
6	Driver Pin	See Page 4 and 5	DG3-40 Series Mort	ise & DG3-34 Rim	
7	Compression Spring	DG-0017	DG3-40 Series Mort	ise & DG3-34 Rim	
8	Slider C6M6	DG-0087	DG3-40 Series Mort	ise & DG3-34 Rim	For keys with a #6 slider cut
9	Slider Spring	DG-0060	DG3-40 Series Mort	ise & DG3-34 Rim	
10	Sidebar Spring	DG-0059	DG3-40 Series Mort	ise & DG3-34 Rim	
11	Sidebar	DG -2818	DG3-40 Series Mort	ise & DG3-34 Rim	
12	Security Plate	DG-0057	DG3-40 Series Mort	ise & DG3-34 Rim	Required for UL437
13	Cam	See Degree Catalog	DG3-40 Seri		
14	Screw	DG-0016	DG3-40 Series Mortise		# 2-56 x 5/16" (8mm) PH. FL.
16	Retainer	DG-0090	DG3-34 Rim		
17	Tailpiece Retainer	DG-0195	DG3-34 Rim		
18	Tailpiece	DG-0196	DG3-34 Rim		
19	Spring Cover	DG-0040	DG3-40 Series Mortise & DG3-34 Rim		
20	Standard Connecting Screws	13-0074	DG3-34 Rim		# 12-24 x 2-1/8" (54mm)
21	Cylinder Back Plate	13-0086	DG3-34	1 Rim	



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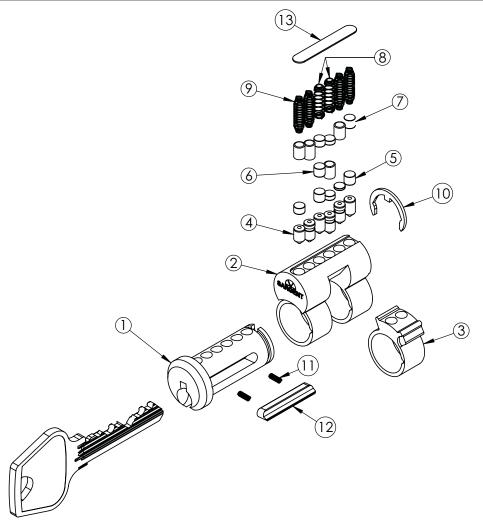
# Cylinder Parts: DG1-LFIC Cores

Degree<sup>®</sup> Key System Technical Manual



### DG1 LFIC Cores

ltem	Description	Part Number	Comment
1	Plug	DG-0200	Plug finishes: 04, 15
2	Cylinder Shell	DG-0290	Shell finishes: 04, 15
3	Control Sleeve	DG-0215	
4	Conical Bottom Pin	See Page 4 and 5	
5	Master Wafer	See Page 4 and 5	
6	Control Pin	See Page 4 and 5	
7	Driver Pin	See Page 4 and 5	
8	Compression Spring, LFIC	DG-0097	Control Sleeve Pin Chambers Only
9	Compression Spring	DG-0017	All Other Pin Chambers
10	Plug Retainer	DG-0090	
11	Sidebar Spring	DG-0059	
12	Sidebar	DG-0056	
13	Spring Cover	DG-0040	



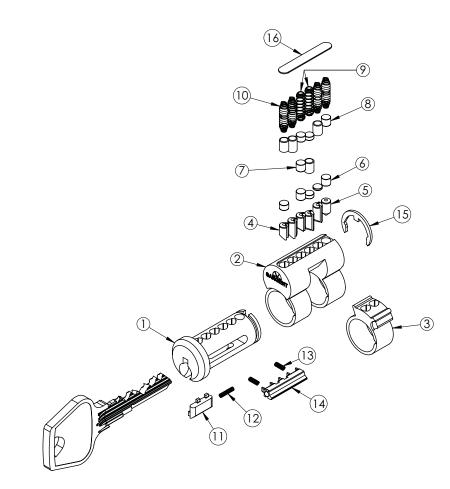
# Cylinder Parts: DG2-LFIC Cores

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# SARGENT<sup>®</sup> ASSA ABLOY

### DG2 LFIC Cores

ltem	Description	Part Number	Comment
1	Plug	DG-0201	Plug finishes: 04, 15
2	Cylinder Shell	DG-0291	Shell finishes: 04, 15
3	Control Sleeve	DG-0216	
4	Chisel Tipped Bottom Pin	See Page 4 and 5	In pin chambers 1 through 5
5	Conical Bottom Pin	See Page 4 and 5	In pin chamber 6 only
6	Master Wafer	See Page 4 and 5	
7	Control Pin See Page 4 and 5		
8	Driver Pin	See Page 4 and 5	
9	Compression Spring, LFIC	DG-0097	Control Sleeve Pin Chambers Only
10	Compression Spring	DG-0017	All Other Pin Chambers
11	Slider C6M6	DG-0087	For keys with a #6 slider cut
12	Slider Spring	DG-0060	
13	Sidebar Spring	DG-0059	
14	Sidebar	DG-2818	
15	Plug Retainer	DG-0090	
16	Spring Cover	DG-0040	



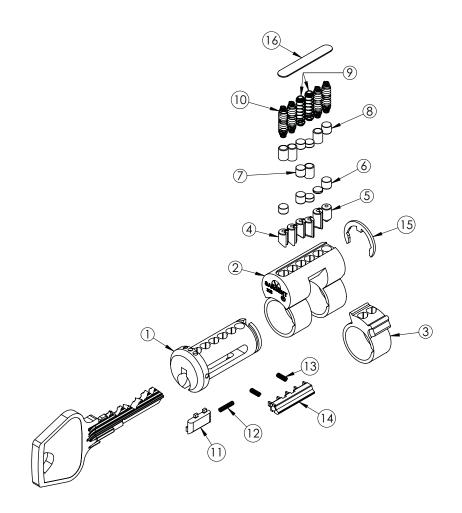
# Cylinder Parts: DG3-LFIC Cores

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### DG3 LFIC Cores

ltem	Description	Part Number	Comment
1	Plug	DG-2901	Plug finishes: 04, 15
2	Cylinder Shell	DG-0292	Shell finishes: 04, 15
3	Control Sleeve	DG-0216	
4	Chisel Tipped Bottom Pin	See Page 4 and 5	In pin chambers 1 through 5
5	Conical Bottom Pin	See Page 4 and 5	In pin chamber 6 only
6	Master Wafer	See Page 4 and 5	
7	Control Pin	See Page 4 and 5	
8	Driver Pin	See Page 4 and 5	
9	Compression Spring, LFIC	DG-0097	Control Sleeve Pin Chambers Only
10	Compression Spring	DG-0017	All Other Pin Chambers
11	Slider C6M6	DG-0087	For keys with a #6 slider cut
12	Slider Spring	DG-0060	
13	Sidebar Spring	DG-0059	
14	Sidebar	DG-2818	
15	Plug Retainer	DG-0090	
16	Spring Cover	DG-0040	



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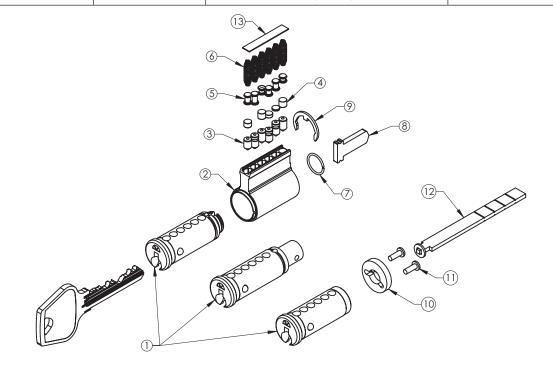
# Cylinder Parts: DG1 Bored, Auxiliary & Integralock

### Degree<sup>®</sup> Key System Technical Manual

### DG1 Bored, Auxiliary, & Integralock Cylinder Parts

ltem	Description	Part Number	Where Used / Cylinder Length	Comment
	Plug with tailpiece retainer (item 7)	DG-3061	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks)	
1		DG-3091	8X Line Cylinders (Knob Locks)	Dlug finishes, 04, 15
1	Plug with roll pin	DG-3071	7, 8, 9 Line Cylinders (Knob Locks)	Plug finishes: 04, 15
	Plug	DG-3029	460, 470, 480, 7500DB Series Deadbolt Cylinders	
	Plug	DG-3043	7600 Integralock Cylinder	
		DG-0171	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks) 8X Line Cylinders (Knob Locks)	
2	Cylinder Shell	DG-0261	7, 8, 9 Line Cylinders (Knob Locks)	No finish
-		DG-0161	460, 470, 480, 7500DB Series Deadbolt Cylinders	
		DG-0271	7600 Integralock Cylinder	
3	Conical Bottom Pin	See Page 4 and 5	All Cylinders	
4	Master Wafer	See Page 4 and 5	All Cylinders	
5	Driver Pin	See Page 4 and 5	All Cylinders	
6	Compression Spring	DG-0017	All Cylinders	
7	Tailpiece Retainer	13-0680	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks) 8X Line Cylinders (Knob Locks)	
		13-0895	7, 8L, 10, 6500, 7500 Line Cylinders (Lever Locks)	
		13-1385	11 Line Cylinders	
8	Tailpiece	13-0907	6 Line (S & N knobs) Cylinders	
		13-0908	6 Line (B knob) Cylinders	
		AC-0007	8X Line Cylinders (Knob Locks)	
9	Plug Retainer	DG-0090	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks) 7, 8, 8X, 9 Line Cylinders (Knob Locks) 7600 Integralock Cylinder	
10	Plug Retainer (Deadbolt)	DG-0150	460, 470, 480, 7500DB Series Deadbolt Cylinders	
11	Retainer Screw	DG-0151	460, 470, 480, 7500DB Series Deadbolt Cylinders	# 2-56 x 1/4" (6mm) PH. PAN
12	T-11-1	DG-2875	Single-Cylinder Deadbolts	
12	Tailpiece	DG-2876	Double-Cylinder Deadbolts	
		13-1341	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks) 460, 470, 480, 7500DB Series Deadbolt Cylinders	
13	Spring Cover	DG-0039	7, 8, 9 Line Cylinders (Knob Locks) 7600 Integralock Cylinder	







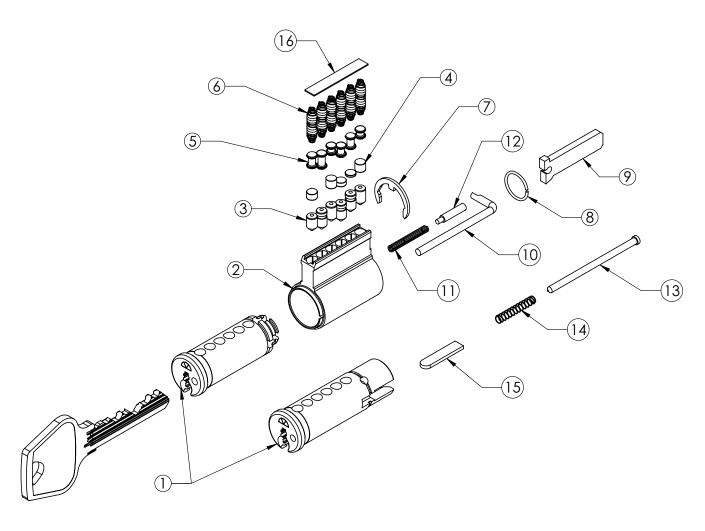
# Cylinder Parts: 50-DG1 Bored - Hotel Function

Degree<sup>®</sup> Key System Technical Manual



### 50-DG1 Bored Cylinder Parts

ltem	Description	Part Number	Where Used	Comment
1	Dlug	DG-0179	50- 10 Line Cylinders	Dhug finish sey 04, 15
1	Plug	Plug DG-0279	50- 8 Line & 50- 11 Line Cylinders	Plug finishes: 04, 15
		DG-0171	50- 10 Line Cylinders	No Finish
2	Cylinder Shell	DG-0261	50- 8 Line Cylinders	NO FINISI
		DG-0295	50- 11 Line Cylinders	
3	Conical Bottom Pin	See Page 4 and 5	All Cylinders	
4	Master Wafer	See Page 4 and 7	All Cylinders	
5	Bump-Resistant Driver Pin	See Page 4 and 8	All Cylinders	
6	Compression Spring	DG-0017	All Cylinders	
7	Plug Retainer	DG-0090	All Cylinders	
8	Tailpiece Retainer	13-0680	50- 10 Line Cylinders	
9	Tailpiece	13-0845	50- 10 Line Cylinders	
10	Indicator Button	13-0675	50- 10 Line Cylinders	
11	Indicator Button Spring	01-0502	50- 10 Line Cylinders	
12	Indicator Button Pin	01-0503	50- 10 Line Cylinders	
13	Visual Indicator	08-0183	50- 8 Line & 50- 11 Line Cylinders	
14	Visual Indicator Spring	08-0213	50-8 Line & 50-11 Line Cylinders	Shipped with 50- Function Lockset
15	Key Block-Out	08-0169	50-8 Line & 50-11 Line Cylinders	
16	Spring Cover	DG-0039	All Cylinders	



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# Cylinder Parts: DG2 Bored, Auxiliary & Integralock

### Degree<sup>®</sup> Key System Technical Manual

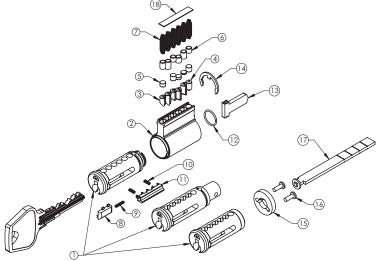
### DG2 Bored, Auxiliary, & Integralock Cylinder Parts

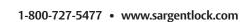
ltem	Description	Part Number	Where Used / Cylinder Length	Comment
	Plug with tailpiece retainer (item 12)	DG-3062	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks)	
1	(item 12)	DG-3092	8X Line Cylinders (Knob Locks)	
1	Plug with roll pin	DG-3072	7, 8, 9 Line Cylinders (Knob Locks)	Plug finishes: 04, 15
	Plug	DG-0166	460, 470, 480, 7500DB Series Deadbolt Cylinders	]
	Plug	DG-0276	7600 Integralock Cylinder	1
		DG-0172	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks) 8X Line Cylinders (Knob Locks)	
2	Cylinder Shell	DG-0262	7, 8, 9 Line Cylinders (Knob Locks)	No finish
		DG-0162	460, 470, 480, 7500DB Series Deadbolt Cylinders	1
		DG-0272	7600 Integralock Cylinder	1
3	Chisel Tipped Bottom Pin	See Page 4 and 5	All Cylinders	In pin chambers 1 through 5
4	Conical Bottom Pin	See Page 4 and 5	All Cylinders	In pin chamber 6 only
5	Master Wafer	See Page 4 and 5	All Cylinders	
6	Driver Pin	See Page 4 and 5	All Cylinders	
7	Compression Spring	DG-0017	All Cylinders	
8	Slider C6M6	DG-0087	All Cylinders	For keys with a #6 slider cut
9	Slider Spring	DG-0060	All Cylinders	
10	Sidebar Spring	DG-0059	All Cylinders	
11	Sidebar	DG -2818	All Cylinders	
12	Tailpiece Retainer	13-0680	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks) 8X Line Cylinders (Knob Locks)	
		13-0895	7, 8L, 10, 6500, 7500 Line Cylinders (Lever Locks)	
		13-1385	11 Line Cylinders	
13	Tailpiece	13-0907	6 Line (S & N knobs) Cylinders	
	Γ	13-0908	6 Line (B knob) Cylinders	
		AC-0007	8X Line Cylinders (Knob Locks)	
14	Plug Retainer	DG-0090	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks) 7, 8, 8X, 9 Line Cylinders (Knob Locks) 7600 Integralock Cylinder	
15	Plug Retainer (Deadbolt)	DG-0150	460, 470, 480, 7500DB Series Deadbolt Cylinders	
16	Retainer Screw	DG-0151	460, 470, 480, 7500DB Series Deadbolt Cylinders	# 2-56 x 1/4" (6mm) PH. PAN
17	T-:!-:	DG-2875	Single-Cylinder Deadbolts	
17	Tailpiece	DG-2876	Double-Cylinder Deadbolts	
10	Spring Cover	13-1341	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks) 460, 470, 480, 7500DB Series Deadbolt Cylinders	
18	Spring Cover -	DG-0039	7, 8, 9 Line Cylinders (Knob Locks) 7600 Integralock Cylinder	

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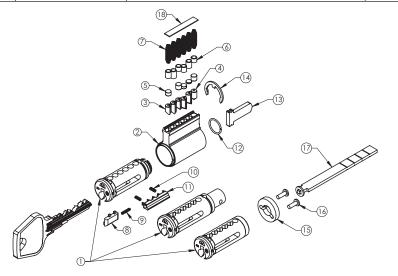
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# Cylinder Parts: DG3 Bored, Auxiliary & Integralock

### Degree<sup>®</sup> Key System Technical Manual

### DG3 Bored, Auxiliary, & Integralock Cylinder Parts

ltem	Description	Part Number	Where Used / Cylinder Length	Comment
	Plug with tailpiece retainer (item 12) –	DG-3063	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks)	
1		DG-3093	8X Line Cylinders (Knob Locks)	Dhue finish and 0.4.15
1	Plug with roll pin	DG-3073	7, 8, 9 Line Cylinders (Knob Locks)	Plug finishes: 04, 15
	Plug	DG-3030	460, 470, 480, 7500DB Series Deadbolt Cylinders	
	Plug	DG-3044	7600 Integralock Cylinder	
		DG-0172	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks) 8X Line Cylinders (Knob Lock)	
2	Cylinder Shell	DG-0262	7, 8, 9 Line Cylinders (Knob Locks)	No finish
		DG-0162	460, 470, 480, 7500DB Series Deadbolt Cylinders	
		DG-0272	7600 Integralock Cylinder	
3	Chisel Tipped Bottom Pin	See Page 4 and 5	All Cylinders	In pin chambers 1 through 5
4	Conical Bottom Pin	See Page 4 and 5	All Cylinders	In pin chamber 6 only
5	Master Wafer	See Page 4 and 5	All Cylinders	
6	Driver Pin	See Page 4 and 5	All Cylinders	
7	Compression Spring	DG-0017	All Cylinders	
8	Slider C6M6	DG-0087	All Cylinders	For keys with a #6 slider cut
9	Slider Spring	DG-0060	All Cylinders	
10	Sidebar Spring	DG-0059	All Cylinders	
11	Sidebar	DG -2818	All Cylinders	
12	Tailpiece Retainer	13-0680	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks) 8X Line Cylinders (Knob Locks)	
		13-0895	7, 8L, 10, 6500, 7500 Line Cylinders (Lever Locks)	
		13-1385	11 Line Cylinders	
13	Tailpiece	13-0907	6 Line (S & N knobs) Cylinders	
		13-0908	6 Line (B knob) Cylinders	
		AC-0007	8X Line Cylinders (Knob Locks)	
14	Plug Retainer	DG-0090	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks) 7, 8, 8X, 9 Line Cylinders (Knob Locks) 7600 Integralock Cylinder	
15	Plug Retainer (Deadbolt)	DG-0150	460, 470, 480, 7500DB Series Deadbolt Cylinders	
16	Retainer Screw	DG-0151	460, 470, 480, 7500DB Series Deadbolt Cylinders	# 2-56 x 1/4" (6mm) PH. PAN
17	<b>T</b> 11 -	DG-2875	Single-Cylinder Deadbolts	
17	Tailpiece	DG-2876	Double-Cylinder Deadbolts	
10	Contra Course	13-1341	6, 7, 8L, 10, 11, 6500, 7500 Line Cylinders (Lever Locks) 460, 470, 480, 7500DB Series Deadbolt Cylinders	
18	Spring Cover -	DG-0039	7, 8, 9 Line Cylinders (Knob Locks) 7600 Integralock Cylinder	











SARGENT Manufacturing Company 100 Sargent Drive New Haven, CT 06511 USA 800-727-5477 www.sargentlock.com ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

Founded in the early 1800s, SARGENT® is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, nenovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets. Copyright © 2013-2019, Sargent Manufacturing Company, an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Sargent Manufacturing Company is prohibited.





# Keso F1 High Security Cylinders



ASSA ABLOY, the global leader in door opening solutions

### Specification

#### **Keso F1 High Security Cylinders**

#### ASSA ABLOY, the global leader in door opening solutions

Dn	The	Cover
Эn	The	Cover

• Keso F1 4271 in 32D UL listed mortise cylinder

The system offers the building owner full control over duplication of keys, highly pick-resistant cylinders, expanded levels of masterkeying and many more safe day key changes. The SARGENT Keso F1 Security System is available for all SARGENT mortise locks,

Patent pending and/or patent www.assaabloydss.com/patents

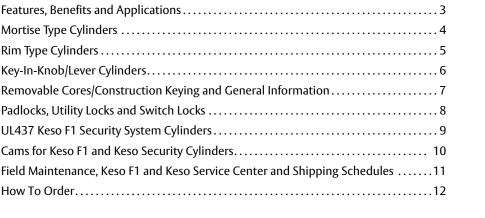
SARGENT Keso F1- Security System

The Proprietary Key System

key-in-knob 8 Line, 9 Line, key-in lever 10 Line, 11 Line, 80 Series and 90 Series exit devices. Removable core and construction core cylinders are included in the system as well. Non-removable core mortise and rim cylinders are available in a UL437 version.

SARGENT will continue to offer and support the original Keso cylinder and keys, but we encourage users to easily upgrade their systems by integrating Keso F1 into their system. The Keso F1 is an enhanced and patented version of the original Keso. All SARGENT products offered with the Keso F1 are still available with the original Keso cylinders and keys. To order the original Keso, simply leave off the F1- prefix, as specified in this catalog.

Special Note: The Keso F1 keys will operate Keso F1 cylinders and existing Keso cylinders, but existing Keso keys will NOT operate F1 cylinders.



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### Features, Benefits and Applications

#### **Keso F1 High Security Cylinders**

#### **Features and Benefits**

The SARGENT Keso F1 Security System offers the building owner full control over field duplication of keys, highly pick-resistant cylinders, expanded levels of master keying and a proprietary patented key system. With the Keso F1 cylinder, it is impossible to determine the configuration of the key system or its upper level master keys by examining the pinning configuration, providing the highest level of key system security available on the market today!

The Keso F1 cylinders incorporate the same unique 12 pins as in the time-proven Keso product line along with advanced patented features. These features are compatible with existing Keso key systems. Existing Keso users can integrate F1 products into their systems in order to regain control of master keying quickly and effectively.

#### F1 keys will operate existing Keso cylinders, but existing Keso keys will not operate Keso F1 cylinders.

The Keso F1 cylinder has 12 pins located in 3 rows on 3 intersecting axes, making it virtually impossible to gain access through manipulation. The position of the pin holes and the length of the pins in each row vary. While maintaining the 3 banks of pins, the Keso F1 product adds an additional dimpling dimension to the key blank offering a greater range of both change and master key combinations. This greatly expands master keying capabilities to both new and existing end users.

The F1 key is symmetrical and reversible. The dimpled key requires sophisticated key-cutting equipment. The unique 6-sided F1 key is not warded or cut away and therefore much stronger than a conventional key. This makes it an ideal choice for highly abusive applications. Each keying system has its own unique combination of key pin lengths and positions. There is never a chance of one keying system duplicating another.

Keso F1 UL437 versions provide a maximum level of pick and drill resistance. Perfect for any high abuse application that requires strict key control and resistance to vandalism. UL437 versions are available for mortise and rim cylinders.

#### **Conventional Cylinder** Keso F1 Cylinder Strength & Durability Flexibility Applications • Cylinder has 12 pins unlike most cylinders • Up to 7 levels of master keying available Government Buildings with only 6 pins • 100,000 different key pin patterns Police Stations • Unique 6-sided dimpled key is much available within any one installation Hospitals stronger than warded keys Keso F1 cylinders can be retrofitted to Schools • Precise manufacturing and the absence original Keso cylinders Colleges of splits makes the cylinder highly • Keso F1 key will operate existing old style Detention Centers pick-resistant Keso cylinders • Psychiatric Wards • Any high abuse application that Convenience Security requires strict key control and • Compatible with existing non-patented • Patented protection for both key and resistance to vandalism Keso key systems cylinder • UL 437 version available for mortise and • F1 keys can not be legally duplicated rim cylinders • Owners' authorization required for • Key is symmetrical and reversible any F1 keys/locks • Removable core versions available Pick resistance • Temporary Construction core available Impossible to determine configuration key system by examining pinning configuration • Every key stamped with the key system registration # and with key # • Keysets also optionally available to be

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stamped on keys



ASSA ABLO

### Mortise Type Cylinders

Keso F1 High Security Cylinders

### SARGENT ASSA ABLOY

#### Mortise Type Cylinders

#### F1-70 Series Mortise Type Cylinders



Brass, bronze and stainless steel Finishes: 3, 4, 9, 10, 10B, 10BE, 10BL, 20D, 32, 32D

Furnished standard with No. 97 cylinder rosette when ordered less hardware

Hotel or 50 function: Mortise locks require a 50 Function cylinder and a 50 Function cam (115 Cam). The cylinders for the hotel/50 function mortise locks are specified with a 115 cam suffix

Optional short cams (105 cam) are required for the inside cylinder of 16 and 92 function Mortise locks and are specified with a 105 cam suffix

When no cam is specified, the SARGENT standard offset cam (p/n 13-2563) will be supplied. (See page 10 for cam options)

- To order with hardware, specify F1-82-
- Example: F1-82-8243 x LNL 32D

Note: Use a 50 function to designate a mortise lock hotel function

## J.

Brass, bronze and stainless steel Finishes: 3, 4, 9, 10, 10B, 10BE, 10BL, 20D, 32, 32D

Core supplied in either 4 or 26D finish. Furnished standard with No. 97 cylinder rosette when ordered less hardware

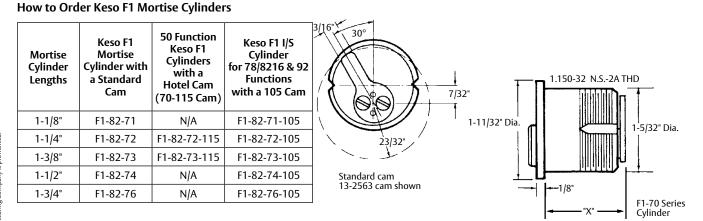
A different, shorter #105 cam (p/n 13-2522) is required for the inside cylinder of 16 and 92 function Mortise locks. Inside cylinders, when ordered without hardware, for 78/8216 & 92 functions are to be specified with the 105 Suffix

Removable core cylinders are not available for hotel function Mortise locks (50 Function). When no cam is specified, the SARGENT offset cam (p/n 13-2563) will be supplied

F1-170 Series Removable Core Mortise Type Cylinders

The cam is directly attached to the core. Only SARGENT standard offset cams (13-2563), 78/8216 function inside 105 cam (13-2522) and ADAMS RITE 101 cam (13-2521) are available on the removable core series

- To order with hardware, specify F1-83-
- Example: F1-83-8205 x LNJ 32D



#### How to Order Keso F1 Removable Core Mortise Cylinders and Cores

Mortise Cylinder Lengths "X"	F1-83-Keso Removable Core Mortise Cylinders with a Standard Cam	F1-83-Keso Removable Core with Standard Cam (Core Only)	F1-83-Keso Removable Core Mortise Cylinders for 78/8216 & 92 Mortise Functions (Inside) with a 105 Cam	F1-83-Keso Removable Core with a 105 Cam, for 78/8216 & 92 (inside) Mortise Function (Core Only)	Removable	with a 105 Cam, for 78/8216 8, 92	Mortise Housing Less Core	Mortise Construction Core Only
1-1/8"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1-1/4"	F1-83-172	F1-5172	F1-83-172-105	F1-5172-105	84-172	84-172-105	072	5472
1-3/8"	F1-83-173	F1-5173	F1-83-173-105	F1-5173-105	84-173	84-173-105	073	5473
1-1/2"	F1-83-174	F1-5174	F1-83-174-105	F1-5174-105	84-174	84-174-105	074	5474
1-3/4"	F1-83-176	F1-5176	F1-83-176-105	F1-5176-105	84-176	84-176-105	076	5476

**Note:** A Keso F1- Removable Core is determined by the Keso F1- Core, not the housing. Therefore, the 84- is a non F1- product. The housings for Keso F1- 83- and 84- are the same housings

**Note:** 84-Removable Construction Core Cylinders are for temporary use and are NOT available in Keso F1. Once construction is completed the Keso F1-83- Removable Cores will be installed (78/8216 & 92 Functions require the 105 Suffix) **Note:** Keso F1 Removable Core Cylinders are not available for 50 Function Hotel Locks

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### Rim Type Cylinders

**Keso F1 High Security Cylinders** 

### SARGENT ASSA ABLOY

#### **Rim Type Cylinders**

#### F1-82-64 Series Rim Type Cylinders



Brass, bronze and stainless steel Finishes: 3, 4, 9, 10, 10B, 10BE, 10BL, 20D, 32, 32D

For use with SARGENT Exit Devices.

When ordered separately, cylinders will be furnished with "Break-off" screws, back plate, and No. 97 cylinder rosette

- To order with hardware, specify F1-82-
- Example: F1-82-8804 x ETL 32D



Brass, bronze and stainless steel Finishes: 3, 4, 9, 10, 10B, 10BE, 32, 32D

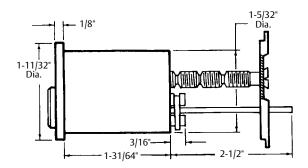
For use with SARGENT Exit Devices. Use 84- Prefix when construction keying is needed

When ordered separately, cylinders will be furnished with "Break-off" screws, back plate, and No. 97 cylinder rosette

- To order with hardware, specify F1-83-
- Example: F1-83-8804 x ETL 32D

**Note:** The rim cylinder less core would be ordered as 064 x finish. Collars, rosettes, back plates p/n 13-0086 and screws p/n 13-0074 are to be ordered separately

F1-83-164 Series Rim Type Removable Core Cylinders



#### How to Order Keso F1 Rim Cylinders Separately

Door Thickness without Trim	F1-82 Keso Rim Type Cylinder	F1-83-Keso Rim Type Removable Core Cylinders	F1-83-Keso Rim Type Removable Cores Only	84-Keso Rim Type Removable Construction Core Cylinders	Keso Rim Cylinder less core (screws and back plates to be ordered separately)
1-3/4" to 3-1/8"	F1-82-64	F1-83-164	F1-5164	5464	064

Note: A Keso F1- Removable Core is determined by the Keso F1- Core, not the housing. Therefore the 84- is a non F1- Product. The Housings for Keso F1- 83- and 84- are the same housings.

Note: 84-Removable Construction Core Cylinders are for temporary use and are NOT available in Keso F1. Once construction is completed the "permanent" Keso F1-83- Removable Cores can be installed.

F1-83-Keso Removable core rim housings are available less core.

#### Order as p/n 064 x finish

Mounting screws p/n 13-0074 and back plate p/n 13-0086 are to be ordered separately if needed.

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### Key-In-Knob/Lever Cylinders

#### **Keso F1 High Security Cylinders**

### SARGENT ASSA ABLOY

#### Key-In-Knob/Lever Cylinders



Many designs and functions in the 8, 9, 10 and T-Zone (11 Line) can be furnished with SARGENT Keso F1.

#### Note:

- 1) 8 Line and 9 Line installations with conventional key-in-knob cylinders can be changed to SARGENT Keso F1 Security System by replacing the complete cylinder knob assembly
- 2) Locksets with levers with conventional cylinders can not be upgraded to Keso F1- or Standard Keso cylinders
- 3) Present Keso Systems can be upgraded to the Keso F1- System

For information regarding available designs, functions and finishes, refer to the particular Bored Lock Catalog for the product in question.



#### How to Order Keso F1 Cylinders for 7, 10 & 11 Line Locks

Keso F1	Keso F1
<b>All 7 &amp; 10 Line Functions</b>	<b>All 11 Line Functions Except for the 50</b>
Cylinder Only: F1-82-C10-1	Cylinder Only: F1-82-C11-1
With Lock: F1-82-10G37 x GL x 26D x LH	With Lock: F1-82-11G05 x LL x 26D x RH

Note: Keso F1 Cylinders for hotel (50) functions are not available 10 and 11 line locks Note: 7 Line Locks are not available with Hotel (50) function Note: Removable Core Cylinders are NOT available for 7, 10 or 11 Line locks Note: SARGENT Keso F1 Systems are available with L, P and B Levers

#### How to Order Keso F1 Cylinders for 8 & 9 Line Locks

F1-82-Keso Cylinder for all	F1-82-Keso Cylinder for all	F1-83-Keso Removable Cylinder	84-Keso Cylinder for all
8 & 9 Line Functions Except	8 & 9 Line 50 Functions	for 8 & 9 Line all functions	8 & 9 Line Functions
for the 50 Function	Locks Only	Except for the 50 Function	Except for the 50 Function
Cylinder Only: F1-82-C8-1	Cylinder Only: F1-82-C8-2	Cylinder Only: F1-83-C8-1	Cylinder Only: 84-C8-1
With Lock:	With Lock:	With Lock:	With Lock:
F1-82-8G04 x OB x 26D	F1-82-8G50 x OB x 26D	F1-83-8G04 x OB x 26D	84-8G04 x OB x 26D

**Note:** 84-Removable Construction Cylinders are for temporary use and are NOT available with F1 Keso feature as once construction is completed the Keso F1-83- Cylinders will be installed

Note: 50 Function/Hotel is not available with removable core

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## Removable Cores / Construction Keying and General Information

## SARGENT

#### Keso F1 High Security Cylinders

#### Keso F1-83- Removable Core and Keso 84- Removable Construction Core Cylinders

The SARGENT Keso 84- security removable construction core system protects the security of an owner's masterkey system during the time of building construction. It is in use throughout the construction period in lieu of the permanent masterkeyed cores. This prevents the permanent system keys from becoming available to unauthorized people. Upon completion of the building, the temporary construction cores and all keys (day and control) for the construction core system become inoperative.

Removable construction core cylinders are available for SARGENT mortise locks, 8 and 9 Line (except for 50 function) and exit devices with mortise and rim cylinder only.

SARGENT Keso 84- temporary removable construction cores are designated by:

- Brown oxidized finish on cylinder sleeves
- Cylinder barrels with 1/8" diameter hole drill point in upper right hand area of barrel head
- All keys are stamped "CONST"
- All removable construction cores will be keyed alike in one KA set and furnished with 6 keys and 1 control key. These are packed separately and shipped to distributor for delivery to general contractors. Additional keys supplied upon request

When the construction core system is to be used, the order must be entered with an individual item number for each key lock. Where room or opening numbers are shown on the plans, this information should also appear with each lockset. Each removable construction core system will be supplied with a total of 6 day keys and 1 control key, unless specified otherwise.

All key locks ordered will be shipped with temporary removable construction cores. To order, prefix the lock number with 84 (Example: 84-8205). A separate order for permanent cores, with all necessary keying information and item numbers for identification purposes, should accompany the lockset order. Upon proper authorization, the permanent cores will be shipped directly to the distributor and not to the job site.

For ordering permanent cores, refer to pages 4, 5 and 6. It will be the distributor's responsibility to:

- Deliver all permanent cores to the job site
- Remove all temporary construction cores and insert permanent cores
- Inspect each lockset to ensure that all permanent cores are operating satisfactorily
- Deliver to building owner all day, master and control keys for the permanent system
- Return all temporary construction cores to SARGENT in New Haven on a regular return goods authorization

All locksets ordered with removable construction core cylinders will be invoiced at the regular price established for prefix 83. A separate invoice will be issued to cover the permanent cores at prices listed for removable cores. Upon return of temporary removable construction cores to SARGENT, a credit will be issued covering the quantity of cores returned at the prices listed for construction cores.

#### 84- Removable Construction Core Cylinders

To order cylinders only (housing & core), specify as follows:

Mortise – Add prefix 84- to removable core cylinder number (Example: 84-172) Not available for 50 function (See Chart on Page 4).

Rim Type – Add prefix 84- to removable core cylinder number (Example: 84-164) (See Chart on Page 5).

#### **Removable Cores Only, Mortise and Rim Type**

To order, see charts on Pages 4 and 5.

#### **Removable Construction Cylinders**

To order cylinders only:

8 Line, 9 Line – Specify as **84-C8-1** (all functions except 50) (See Chart on Page 6).

To order permanent removable cylinders for 8 Line, 9 Line - Specify as **F1-83-C8-1** (See Chart on Page 6).

#### **General Information**

#### INTERCHANGEABILITY

Mortise and rim type SARGENT Keso F1 Security System cylinders are interchangeable with conventional SARGENT cylinders currently in use. SARGENT Keso F1 Security System cylinders for key-in-knob 8 and 9 Line can be substituted for conventional cylinders in use by changing the cylinder knob assembly. When ordering replacement cylinder knob assemblies for 8 and 9 Line, consult current catalog offering and specify function, trim and finish.

#### REMOVABLE CORE CYLINDER FOR HOTEL FUNCTIONS

Removable core cylinders are not available for hotel function in any lock line.

#### CONTROL KEYS FOR REMOVABLE CORE SYSTEMS

It is recommended that a removable core system utilize the minimum number of locks possible under any single control key. The most secure condition would be for one control key to operate one lock. A control key allows access to the cylinders to which it is keyed and should be safeguarded in the same manner as a masterkey.

All orders for removable core systems must clearly state the keying level at which the control key will operate.

#### MASTERKEY SHIPMENTS

Masterkeys specified in the original order are shipped to the SARGENT distributor for delivery to the building owner. Upon delivery, the building owner will be required to sign the Masterkey Receipt Card (Form G831). The completed card must bear an authorized signature, as it appears on the Signature Authorization Card (Form G825), and then must be returned to SARGENT Manufacturing Company by the distributor.

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### Padlocks, Utility Locks and Switch Locks

Keso F1 High Security Cylinders

### SARGENT ASSA ABLOY

#### How to Order:

#### Padlock No. F1-82-856 and F1-82-857

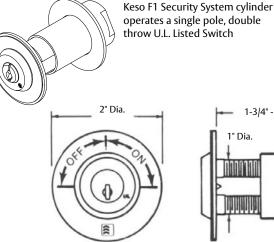
- 856 Non key retaining. Key can be removed while unlocked and relocked without key.
- 857 Key retaining. Key removable in locked position only.
- Same security as offered in other Keso Security System locks. Can be masterkeyed with all locks in the system
- Positive deadlocking construction none of the springs can be forced
- Two stainless steel balls lock shackle. Forcing of shackle increases locking action
- Available with standard stainless steel or optional hardened steel shackle
- Brass case
- Weather Shield Kit included (standard)

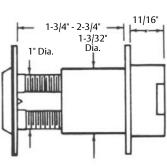
#### SPECIFICATIONS

Removable core not available

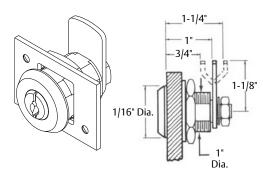
Padlock <u>Number</u>	Description
F1-82-856 F1-82-856C F1-82-856HS F1-82-856HSC	Stainless steel shackle Stainless steel shackle and 9" chain Nickel plated hardened steel shackle Nickel plated hardened steel shackle and 9" chain
F1-82-857 Body Case Dimensions Shackle	Key removable in locked position only Solid brass, resists corrosion satin brass finish 2"x2"x1-1/8" Stainless standard or optional hardened steel, nickel plated
Shackle Diameter Shackle Clearance Chain	11/32" 1" standard; 2-1/2" and 4" clearance available 9"

#### Switch Lock No. F1-4153





#### Utility Lock No. F1-4152



Finishes: 3, 4, 10, 26, 26D

For Drawers: Up to 3/4" thick

**Cylinder:** Keso F1 Security System. Can be masterkeyed with all other Keso locks in the system

**Reversible:** Right or left hand

**Cam:** Steel, flat (order as F1-4152) or 1/4" offset (order as F1-4152-2)

**Mounting Plate:** Furnished with screws for mounting to wood or metal drawers. Can be brazed to metal doors

### UL437 Keso F1 Security System Cylinders

#### **Keso F1 High Security Cylinders**

#### How to Order:

#### UL437 Listed Keso F1 Security System Cylinders

UL437 Listed cylinders have the same basic construction as standard SARGENT Keso F1- Security System cylinders with additional pick and drill resistant features.

UL437 Listed Cylinders are ordered separate from hardware.

These UL437 Listed cylinders contain additional hardened steel pins that may not be compatible with existing key systems. Consult SARGENT Key Records Department for compatibility. Generally, U.L. Listed cylinders can be keyed into the total system if the requirement is known at the time the system is established.

U.L. performance tests are specified in standards for safety – Key locks (U.L. 437, First Edition, Underwriters Laboratories, Inc., Chicago, Illinois) as follows: "The lock cylinder shall resist for at least ten minutes any of the following or other tests suggested by study of the design. Recognized lock experts may be called in to assist in these tests."

"The cylinder shall resist aligning the tumblers and opening the lock by means of picking tools."

"The cylinder shall resist drilling the plug or body of the cylinder, releasing the tumblers, and opening the lock."

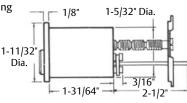
"The cylinder shall resist opening the lock by forcing a small cold chisel or screw driver into the key slot and applying rotary force with a pair of pliers or a wrench."

#### F1-4264 Rim Cylinder

Listed in Underwriters Laboratories, Inc. Burglary Protection

Equipment List under locking cylinders (241 012)





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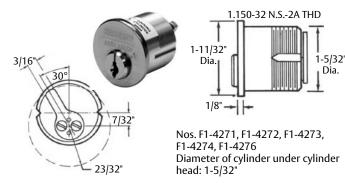
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Dia.

No. F1-4264 are furnished with "Break-off" screws, back plate and No. 97 cylinder ring. Break-off screws are located above horizontal centerline, same as standard No. 64 cylinder. For use with SARGENT exit devices.

#### F1-4270 Series Mortise Lock

Listed in the Underwriters Laboratories, Inc. Burglary Protection Equipment List under locking cylinders (241 012) Finishes: 10, 26, 26D

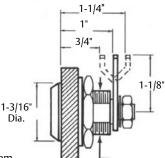


#### How to Order F1-4270 Series Mortise Cylinders

Mortise Cylinder Lengths	1-1/8"	1-1/4"	1-3/8"	1-1/2"	1-3/4"
Series F1-4270 Cylinder	F1-4271	F1-4272	F1-4273	F1-4274	F1-4276

#### F1-4252 Utility Lock

Listed in Underwriters Laboratories, Inc. Burglary Protection Equipment List under locking cylinders (241 012) Finishes: 10, 26, 26D



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For Doors: Up to 3/4" thick Cylinder: Keso F1 Security System Reversible: Right or left hand

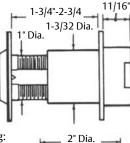
Cam: Steel, flat (order as F1-4252) or 1/4" offset (order as F1-4252-2) Mounting Plate: Furnished with screws for mounting to wood or metal doors. Can be brazed to metal doors.

#### F1-4253 Switch Lock

Keso F1 Security System cylinder operates a single pole, double throw U.L. Listed in the Underwriters Laboratories, Inc. Burglary Protection Equipment List under connectors and switches (25L30)

Finishes: 26





Electrical Switch (U.L. Listed) – Max. rating: 250 vac - 5 amp. . 30vdc – 3 amp.

Operation: Turn key 90° right or left (until stop is reached). Return key to vertical position and remove. Key is removable in vertical position only.





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### Cams for Keso F1 and Keso Security Cylinders

#### Keso F1 High Security Cylinders

### ASSA ABLOY

SARGENT

#### Cams for Keso F1 and Keso Security Cylinders

Listed below are the cams available for Keso F1 and Keso Security System cylinders. There are four special cams for cylinders used with other manufacturers' locks. Since there may be several cam variations within one manufacturer's lock line, a thorough check of all lock functions should be made whenever Keso F1 and Keso Security System cylinders are being considered for use in other manufacturers' locks.

Cam description	Application	Order # For Complete Cyl. Assembly With Cam	Cam Part # When Ordered Separately
Regular Cam (Std)	F1-82-71 thru F1-82-76, F1-83-172 thru F1-83-176 71 thru 76 and 172 thru 176	F1-82-71 thru F1-82-76, F1-83-172 thru F1-83-176 82-71 thru 82-76 and 83-172 thru 83-176	Std (No Suffix) (13-2563)
Vertical Hotel Cam (Cam Suffix -115)	F1-82-(72-115, 73-115) Note these cylinders have limited key rotation and are only for use in Sargent 78/8250 locks	F1-82-72-115, F1-82-73-115, 82-72-115 & 82-73-115 for only in 78/8250 functions	13-2283 ( 115 Cam*)
Short Offset Cam (Cam Suffix -105)	Inside cylinder cam for Mortise Functions 16 and 92	F1-82-71-105 thru F1-82-76-105 & F1-83-172-105 (Cam Suffix -105) thru F1-83-176-105, 82-71- thru 82-76-105 & 83-172-105 thru 83-176-105	13-2522 (105 Cam)
70-101 and 170-101 Offset Cams	Adams Rite MS1850 series locks only. Packed standard with #90-1/8" blocking ring	F1-71-101 thru F1-76-101, F1-172-101 thru F1-176-101	13-2521 (101 Cam)
70-113 Vertical Cam (Cam Suffix -113)	Cam used with 4370 Series Key switches	F1-82-71-113 82-71-113	13-2519 (113 Cam)
70-106 Cam (Cam Suffix -106)	70 Series mortise cylinders for Schlage "L" mortise lock	F1-82-71-106 thru F1-82-76-106 71-106 thru 76-106	13-0939 (106 Cam)

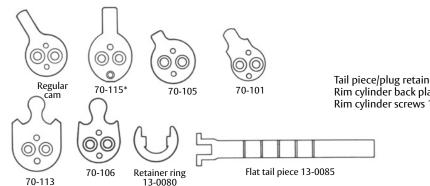
Keso F1 and Keso cylinder cams can only be used with Keso cylinders.

These cams cannot be used with conventional SARGENT mortise cylinders.

170 Series removable core cylinders are only available for use in SARGENT hardware, except the Adams rite locks listed above.

The following cams can only be used in removable core: -105, -101, -104 and the regular cam 13-2563.

\* The 115 cam is unique and only fits the limited rotation hotel function cylinder



Tail piece/plug retainer 13-0880 not shown Rim cylinder back plate p/n 13-0086 not shown Rim cylinder screws 13-0085 not shown

#### **Ordering Forms**

Orders for the SARGENT Keso F1 Security System are handled on a special priority basis and are closely controlled, not only to expedite shipments, but to protect the security of each installation. These forms are utilized in the ordering procedure:

#### Signature Authorization Card, Form No. G825

Form G825 is the control card for ordering the SARGENT Keso F1 and Keso Security System. It is to be completed and signed in duplicate. The SARGENT distributor will keep one copy and the second copy will accompany the initial order for the system. When received in New Haven, CT., it will be kept in a locked file for subsequent authenticating purposes. Only those orders bearing one or more of the signatures on this card will be honored. Authorization For SARGENT Keso F1 Security System, Form No. G826 This form is to be used by the building owner, or his agent, in ordering the SARGENT Keso F1 Security System for additions to an existing system. It is to be completed by the owner or agent and forwarded to the authorized SARGENT Distributor. Completed forms must bear an authorized signature.

SARGENT Keso F1 and Keso Security System Key order, Form No. G827 The key order form is used for ordering additional or duplicate keys for a system. The form is completed by the building owner, or his agent, and an authorized signature must appear on it. The form is forwarded by the building owner to the authorized SARGENT Distributor.

All forms are available only through authorized SARGENT Distributors.

#### Keso F1 High Security Cylinders

#### Field Maintenance of KESO F1 and Keso Security System Cylinders

Proper maintenance of lock cylinders will insure longer life for the SARGENT Keso F1 and Keso Security System and will eliminate potential cylinder malfunctions. Preventive maintenance, performed on a continuing basis, is simple to do and requires no technical knowledge. It is accomplished with a dry film lubricant in the cylinder chamber through the keyway opening. It is not necessary to remove either the lock or cylinder from the door, the keyway is directly exposed in all cases.

While all cylinders should be lubricated once a year, cylinders with a high usage frequency should be lubricated every sixty days. Exterior cylinders which are exposed to dust, dirt and extreme weather conditions should be serviced with dry film lubricant every sixty days.

The proper lubricant is important. It is our recommendation that only a dry film lubricant is used. The use of oil, grease or similar substances should not be used in lock cylinders.

#### **KESO F1 and Keso Security System Service Center**

A service center has been established in the factory to process orders in the following three categories:

- 1. Repair or replace inoperative Keso F1 and Keso Security System cylinders and keys.
- 2. Supply additional keys for existing key systems.
- 3. Furnish new cylinders for existing key systems. This service is limited to quantities of twelve cylinders or less.

#### Service Center Delivery Responsibility

Orders for repair of cylinder in quantities of twelve or less will be shipped within three working days after receipt of order. A delivery date will be available from the factory for cylinders in quantities greater than twelve.

#### **Distributor Responsibility**

 Orders for repair and replacement of inoperative cylinders should be mailed to Sargent Manufacturing Company, 100 SARGENT Drive, New Haven, CT 06511. A day key should accompany any cylinder returned for repair to insure proper diagnosis. A statement regarding the malfunction should also be included. The service center has been established to service owners of KESO Security Systems through authorized distributors only and not on a direct basis with building owners.

ASSA ABLC

- 2. Key orders should be mailed to Sargent Manufacturing Company. Authorization Form G827 bearing an authorized signature must accompany all orders for additional cylinders.
- 3. Orders for twelve cylinders or less keyed to an existing system should be mailed to Sargent Manufacturing Company. Authorization Form G826 bearing an authorized signature must accompany all orders for additional cylinders.

Information required to insure prompt and efficient handling of your service orders:

- 1. Job name
- 2. Original SARGENT order numbers
- 3. Key number
- 4. Registry number (last four digits on key)

#### **Shipping Schedules**

#### For existing installations

Orders for additional keys for existing systems will be filled within 48 hours after receipt of order in quantities of twenty-five keys or less. Orders for more than twenty-five keys will require an additional 24 hours for each increment of fifty keys or less (**Example: 150 keys would require five working days**). Orders for additional new cylinders for existing key systems in quantities of twelve or less will be shipped within fifteen working days after receipt of order.

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### How to Order

#### **Keso F1 High Security Cylinders**

## ASSA ABLOY

#### Complete Locksets (Mortise, Rim Type and Key-in Knob Cylinders)

#### How to Order Keso F1 Cylinders for SARGENT Mortise Locks, Exit Devices and Bored

	Keso F1 Cylinders	Keso F1 Removable Core Cylinders	Keso F1 Removable Construction Core Cylinders
How to Order	F1-82-	F1-83-	84-
Example: 8205 LNL 26	F1-82-8205 LNL 26	F183-8205 LNL 26	84-8205 LNL 26
Example 8813xETL 10B LHRB	F1-82-8813xETL 10B LHRB	F1-83-8813xETL 10B LHRB	84-8813xETL 10B LHRB

Note: All Keso F1 products listed are offered with both the F1- Option and the Non F1- Option. To order the non F1- Option, simply leave off the F1- Prefix when ordering

**Note:** SARGENT will supply the correct cylinders based on function, door thickness and prefix requested **Note:** When ordering cores or cylinders, specify keying requirements

#### Keys

F1 master keys order by catalog # F1 K372 MK

F1 Day keys order by catalog # F1 K372 CHK

F1 Control key or Emergency key for all locks except 8G50 order by catalog # F1 K372 CTL

- F1 Mortise emergency key order by catalog # F1 K373 EMK
- F1 8G50 emergency key order by catalog # F1 K374 EMK

#### **Key Blanks**

F1 Master and change key blanks order by catalog # F1-K376

F1 Control key blanks order by catalog # F1-K-375

Correct ordering number will consist of:

Complete Locksets: Lockset number with prefix, design, hand and finish. Example: F1-82-8245 LNL LH 3

Cylinders Only: Cylinder number, suffix (if any), and finish. Example: F1-71-115 x 3

Removable Cores Only: Core number, prefix or suffix (if any), and finish. Example: F1-5172-105 x 3

Padlocks: Padlock number, shackle clearance (if other than standard) and finish (if other than standard). Example: F1-82-856 2-1/2" 26D

Utility Locks: Lock number and finish. Example: F1-4152 3

#### **Prefix Designations**

82-	Keso Security Cylinder
F1-82-	Keso Security Cylinder with Front Profile
83-	Keso Security Removable Core Cylinders
F1-83-	Keso Security Removable Core Cylinders with Front Profile
84-	Keso Security Removable Construction Core Cylinder (temporary use only)

#### Suggested Architect's Specification

2.0 KEYING – Keso F1 SERIES

- A. Cylinders and keys shall be SARGENT Keso F1 Series by SARGENT Manufacturing Company, New Haven, CT.
- B. Each cylinder shall contain at least twelve key pins.
- C. Cylinders shall not contain splits or master key pins.
- D. Each keying system shall offer at least seven levels of master keying, and regardless of the level of master keying, there must be a minimum of 100,000 unduplicated, safe and usable key combinations available.
- E. Provide high security removable core cylinders, with patented key control, for each lock with temporary construction cores. Permanent cores shall be installed upon completion of the project.
- F. Cylinders shall meet the requirements of UL437.
- G. Master key or Grand master key cylinders and key in groups, unless otherwise specified. Factory master key with manufacturer retaining permanent keying records.
- H. Provide 6 master keys for each master key set. Provide 3 change keys for each lock. Provide 2 control keys for core removal. Stamp keys PATENTED.
- I. Provide key list, in electronic format, for import directly into KeyWizard key control software.
- J. Submit proposed keying schedule to Architect. If requested, meet with Owner and Architect to review schedule.



SARGENT Manufacturing Company 100 Sargent Drive New Haven, CT 06511 USA 800-727-5477 www.sargentlock.com ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

Founded in the early 1800s, SARGENT\* is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets.

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## Signature<sup>®</sup> Series



ASSA ABLOY, the global leader in door opening solutions

#### Signature<sup>®</sup> Series

### SARGENT ASSA ABLOY

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#### Policy

The SARGENT® Signature® protected cylinders and keys are available through the normal channels of distribution.

Assignment of unique SARGENT Signature patterns must be pre-approved by the factory.

A letter requesting a SARGENT Code Pattern Registration Form must be sent to the Key Records Department in New Haven, CT.

Signature patterns will be issued by predefined geographical boundaries and assigned in accordance with a standard factory policy. This policy would not reuse the same key way with the same Signature dimple pattern in the same state or adjacent states providing a large area of exclusivity. For example a system in Connecticut would not be reused in New York, Massachusetts or Rhode Island.

A letter of authorization under the letterhead of the End-User must accompany any purchase orders for any products which involve SARGENT's Signature cylinders and/or keys.

SARGENT Signature patterns are assigned at the End-User level.

High<br/>SecurityHigh Security: UL437 Drill & Pick-Resistant Systems offer protection<br/>against physical attacks. Includes Degree DG3and UL-Keso.SecuritySecurity: Protection against picking. Includes Degree DG2,<br/>Signature and Keso.Patented KeywayPatented KeywayMaterna KeywayKeys are protected against unauthorized<br/>duplication. Includes Degree DG1 and XC.Open ConventionalLegacy systems whose patents<br/>have run out and are not protected.

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\* See product catalogs for more information

### KeyWizard™ Key Management Software

#### **Cylinders and Components**

#### SARGENT'S KeyWizard™ 5.5 Software Package Tracks Multiple Key Systems Including Keys, Keyholders, Locations, and Hardware Information

This comprehensive key management software package was developed for locksmiths and end-users to track detailed information.

The program features easy to navigate, non-cluttered screens and uses a format similar to Microsoft® Outlook™.

#### Features:

- Free Technical Support at 1-800-610-1706 and system upgrades for 1 year
- Website support at www.keywizard.net
- Multi-level passwords and access levels ٠
- Clear, easy to read screens •
- Manages multiple end user key systems
- Customized query, reporting and search capability ٠
- Global searching across multiple key systems
- Comprehensive hardware schedules
- Keyholder photos and signatures for identity verification
- Scheduled maintenance and reminders for overdue keys and back-ups

#### How to order for new users:

Single License Version — KW-SS1 Network Version — KW-SSN1 Demonstration Version — KW-DEMO1

How to order, if upgrading from KeyMinder\*:

Single License Version — UP-KW-SS1 Network Version — UP-KW-SSN1

\*consult factory for eligibility requirements

Place order based on size of system.

**Keying Data** Keying data (key sets and bittings) is available for order with new or existing systems to eliminate the need for manual data entry into Key Wizard.

Accurate key symbol sorting

key deposits

and e-mail

Pinning calculators

Editable field titles

Multi-level key authorizations and

Network and stand-alone versions

Reports options including printing in a variety of formats

Ability to connect to a website and search for any updates

Cylinder and key random serial ID generator

Key authorization forms that can be printed at will

Part Number	Description
DLKW1	1 to 50 bittings
DLKW2	51 to 200 bittings
DLKW3	201 to 1000 bittings
DLKW4	1001-3000 bittings
DLKW5	3001-6000 bittings
DLKW6	6001-9000 bittings

Over 9000 bittings

#### **Computer System Recommendations:**

#### **REQUIRED:**

DLKW7

- 350 MHz processor
- 60 MB hard disk space
- Windows<sup>®</sup> 7, XP, 7 (32 bit and 64 bit), or 8
- 64MB Ram
- CD drive

#### **RECOMMENDED For Better Performance:**

- 500 MHz or faster
- 70 MB or more
  - Windows® XP, 7 (32 bit and 64 bit), or 8
- 64MB Ram CD drive

#### **BITTING LISTS**

Paper bitting lists provided at no charge for factory corresponding keyed orders when requested at time of hardware order. An owners letter of authorization must be attached to all purchase orders. Existing key system bittings lists are also available contact key records for more information.



**LSSA ABI (**)



### Signature Components Signature® Series

**SARGEN** ASSA ABLOY

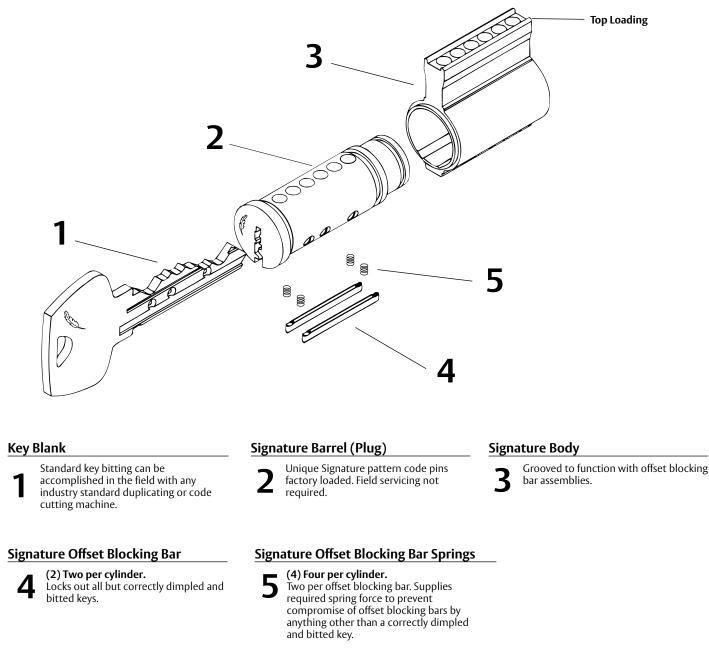
The Signature key system consists of a 6 pin cylinder with 2 added blocking bars with shear lines (item 4) which work in conjunction with 6 factory loaded side pins. The side pin depths and locations vary and only work with a corresponding dimpled key.

In addition, two "blocking pins" for a total of 8 are in each plug/barrel. These blocking pins prohibit non Signature keys from being inserted into the Signature cylinder. Signature keys can operate non-Signature cylinders.

These pins are factory installed and do not need to be serviced.

The Signature key system is ideal for existing facilities that would like to upgrade to a protected key system with minimal effort.

Signature can easily be blended into most existing key systems while allowing the end user one master key that will open both Signature and non-Signature cylinders.



### Mortise & Rim Cylinders

### SARGEN ASSA ABLOY

Signature<sup>®</sup> Series

Extra security, exclusive end-user pattern, and protected key control are the main benefits of the Signature Series. The protected key design provides additional control over unauthorized key duplication, while the cylinder's unique design resists attempts at manipulation. The Signature feature is offered in the majority of Sargent keyways to provide a perfect solution to upgrading the level of control in an existing masterkey system.

- Cylinder: Solid brass, 1-5/32" (29mm) diameter
- Cap: Brass, bronze or stainless steel
- Optional Collars/Spacers available and ordered separately, refer to product catalogs for additional information



Top Loading of Cylinders allows for easier field pinning (since May 2008)

#### Cams for use with 40 Series

Cam Type	Suffix	Part Number
SARGENT Std	No Suffix	13-0664
ADAMS RITE (1850)	-101	13-0512
Inside Cam for 16 & 92 function Mortise Locks	-105	13-0665
Schlage L	-106	13-0938
OPEN OPEN	-112	13-0097
SARGENT (4370)	-113	13-0921
Cam Screws	2 required	01-1121

#### Mortise/Rim Cylinders

E P

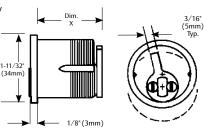
	Complete 6 Pin Assembly **	Barrel***	Body & Slide Assembly	Cylinder Length
	10-41	13-3835	13-3726	1-1/8"
	10-42	13-3836	13-3727	1-1/4"
	10-43	13-3837	13-3728	1-3/8"
	10-44	13-3838	13-3729	1-1/2"
40 Series* Cylinder	10-46	13-3839	13-3730	1-3/4"
	10-48	13-3840	13-3731	2"
	10-50	13-3841	13-3732	2-1/4"
	10-52	13-3842	13-3733	2-1/2"
	10-54	13-3843	13-3734	2-3/4"
	10-56	13-3844	13-3735	3"
Rim Cylinder*	10-34	13-3845	13-3847	

\* When cylinders are ordered (without hardware), they are packed with #97 rosette as standard. Others available, consult Product Catalogs for optional collars

\*\* Cylinders offered in the following finishes: US 3, 4, 9, 10, 10B, 10BE, 10BL, 14, 15, 20D, 32, 32D and BSP

\*\*\* Barrels offered in US 4 and 15 only





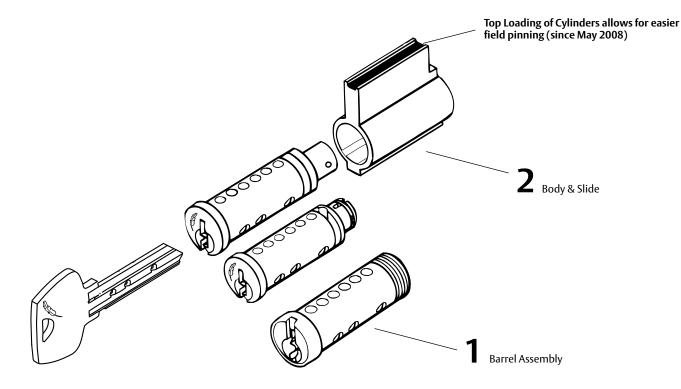
Note: Parts on this page reflect only those that are unique to the Signature feature. For all other cylinder components, refer to the standard cylinder section



### Bored Locks Cylinders

Signature® Series





#### **Bored Locks**

Functions	Lockset	Assembly	Barrel Assembly #1	Body & Slide #2
All except 50 function	11 Line	10-C11-1 (13-4147)	13-3851	13-3710
All except 50 function	10, 8L, 7 Lever, 6500	10-C10-1 (13-3713)	13-3851	13-3710
All except 50 function	9, 8*	10-C8-1 (13-3827)	13-3850	13-3852
All except 50 function	6 "S","N"	10-C6-1 (13-3814)	13-3851	13-3710
All except 50 function	6 "B"	10-C6-1B(13-3815)	13-3851	13-3710
All except 50 function	8X	10-C8X-1(13-5203)	13-3938	13-3937

#### Auxiliary Locks (Deadbolts)

Lockset	Assembly	Barrel #1	Body #2
474, 484	10-C480-1 (13-3857)	13-3849	13-3855
475, 485, 487	10-C480-2 (13-3858)	13-3849	13-3855
486	10-C480-3 (13-3859)	13-3849	13-3855
464*	10-C460-1 (13-3861)	13-3849	13-3854
465*	10-C460-2 (13-3862)	13-3849	13-3854

**Note:** Parts on this page reflect only those that are unique to the Signature feature. For all other cylinder components, refer to the standard cylinder section

Cylinders offered in US 4 and 15 only

For products not listed, contact factory for availability

\* Discontinued Product Line



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### 10-6300 LFIC Cylinders and 6300 Series Tools

#### Signature® Series

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Signature LFIC core cylinders offer a protected cylinder with the convenience of quickly changing cores without lock disassembly. Consult individual product catalogs for availability.

• 10-63-6500 Series

• 10-63-8 & 10-63-9

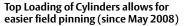
Line Bored Locks

• 10-63-758 Padlocks

• 10-63-858 Padlocks

#### Ordering examples:

10 Line Cylindrical – 10-63-10G05 LL x 32D x LH key set 8200 Mortise – 10-63-8204 LNL x 32D x RH key set

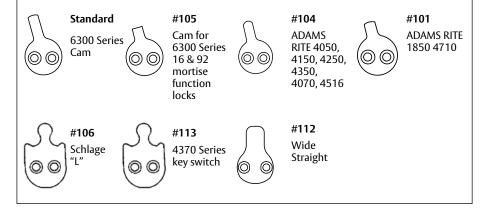


#### 10-6300 LFIC can be used with:

- 10-63-34 Rim Cylinders
- 10-63-40 Series Mortise Cylinders (in Sizes 42 (1-1/4"), 43 (1-3/8"), 44 (1-1/2") & 46 (1-3/4")
- 10-63-11 Line (T-Zone Locks)
- 10-63-10 Line Locks
- 10-63-7 Line Locks

Note: Not available with the UL option

- 6300 Cams are factory installed and are not removable
- 6300 Cams are not sold separately
- Specify required Cam as a suffix: 63-44-105 cam
- For Standard Cam: No Suffix is required



#### 432 RC Tool for 6300 LFIC (Removable Core)



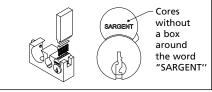
- The 432 RC tool to assist in installing SARGENT LFIC (Removable Core) Mortise Housings. This tool makes it easy to thread a cylinder body into a Mortise lock and can also be used to check the cylinder function of a lock before installing the cylinder core
- Order as: 432 RC for the 6300 LFIC (Removable) Core Installation Tool

10-6300 Cores				
Complete Core	10-6300 x finish			
#1 Barrel	13-0976			
#2 Body Only	13-0977			
#3 Sleeve	13-1074			
Slide (Not Shown)	13-0797/ 13-1341*			

\* Slides for cylinders mfg after 3/06

#### 436-1 Slide Block Kit

- Includes fixture and staking tool for use only with the (10)- 6300 Series Cylinders manufactured after March 2006 for the ease of top loading in the field
- The kit includes 100 each slides (p/n 13-1341), Staking Block and staking tool
- Cylinders manufactured after March 2006 will not include the box around the SARGENT logo and can be used with this kit



**Note:** Cores made prior to March 2006 can be bottom loaded or top loaded with slide 13-0797, which must be staked.

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#### Key Blanks/Cut Master Keys Signature® Series

#### 0

#### Part Numbers

All Signature key blanks are stamped at the factory with the Quill Logo and the individual Signature pattern. The Signature key blanks with the end user's unique dimple pattern are available only from SARGENT.

Available Keyways: L and R. For other sections, call factory.

Orders for these key blanks must be accompanied by a letter of authorization under the end user's letterhead. This letter must contain the required key section(s) and appropriate authorizer's identification

The Signature Key Blank for field cutting and stamping key is offered in two styles.

Version one: The key blank has the standard SARGENT logo embossed on one side. The other side has the Signature Quill Logo, Do Not Duplicate, specific Signature code pattern, keyway and space for one additional line of stamping such as key set. Version two: The key is less SARGENT logo. This allows for additional space for optional stamping such as custom field stamping. The other side has the Signature Quill Logo, Do Not Duplicate, specific Signature code pattern key way and one additional line for stamping such as key set. Key set symbols or alternate symbols will be stamped on all master keyed orders.

Two types of Signature featured key blanks are available for specific Keyway (sections) configurations: the day key or single key section, and the Master Keyway sections.

10-S6275 Day Key x keyway 10-S6270 Master Section x keyway

Note: Sold in boxes of 50 per keyway

For cut master and control keys order by the following #s: Change (Day) key 10 S6272 CHK Master or Grandmaster 10-S6272 MK Control Key 10-S6272 CTL Control Key 10-S6255 CTL used with 1 bitted 10-6300 cores



Key bittings can be cut on any industry standard key cutting machine.

#### 437S Signature Keying Kit

Used to service SARGENT Signature cylinders. Includes all of the same components as the 437C. Includes the brass pins, springs and tools needed to rekey SARGENT conventional, XC cylinders (Except SFIC) and interchangeable cores master keyed after January 2009. This heavy duty steel kit prevents pins from mixing. The kit includes 100 each of top springs 13-0265,100 each 13-1769 springs used with standard drivers in the (10-) 6300 cores and 100 each of bottom and master/driver pins used in the following multi-family keyways: LA, RA, HA, CA, AA, BA, GA, KA, NA and VA.

Note: When re-pinning SARGENT 6300 Large Format Interchangeable (Removable) Core cylinders made before January 2009 they contained special hollow drivers, the 437RC/UL supplemental pinning kit is required

- Tools included with kit are:
- Tweezers, 13-0498
- Bitting Gauge #435
- Loading Thimble ("Plug Holder" LT2)
- Loading Rod for 6, 8, 10, 11, mortise & rim cylinders, 13-1034
- Loading Rod for 480, 470, 460 and 6300 Cores, 13-1035
- Loading Rod Blades 13-1138 and 13-1037
- See Table on Page 15 for pins included in Cylinders and Components catalog
- 100 Blocking Bar Springs, 13-0986
- 10 each Blocking Bars, 13-1109
- 1 each Field Service Tool, 13-3916

When <u>pins are sold separately</u>, they are packaged in easy to see and use foil & plastic packages in quantities of 100 per size.

#### 437 RC Large Format Interchangeable (Removable) Core Keying Kit

Use with the 437C or 437S kit. Includes additional pins to repin SARGENT 6300 and 10-6300 Large Format Interchangeable (Removable) Core cylinders that have been pinned using the hollow drivers.

The kit includes special hollow top driver pins and springs which were used in the 3rd and 4th chambers of master keyed cores.

These pins are in the same increments as standard pins.

#### Each kit includes:

- 100 each hollow top pin springs, 13-0487
- 50 each cylinder retainers, 01-0660
- 50 each (hollow top pins)





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### Visual Key Control

### SARGENT ASSA ABLOY

#### Visual Key Control (Stamping)

To allow for easier key and cylinder identification, SARGENT offers the option for permanent stamping of keys and/or cylinder with industry standard alpha-numeric keyset symbols.

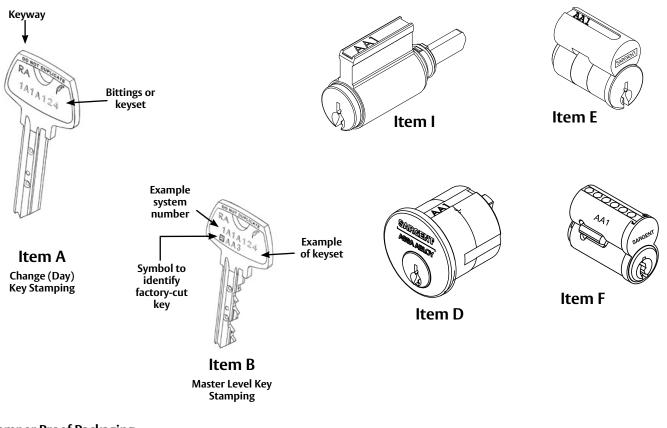
Non-visual key control stamped change (day) keys include keysets as standard, (Item A) unless specified in keying order lead sheet submitted with order requesting to be omitted and substituted with bitting numbers.

Master level keys <u>do not</u> include bitting numbers. Master level keys <u>include</u> system register numbers stamped on the first line, and the standard visual key control designations on the second line (Item B).

#### Up to 7 characters available for permanent stamping for Visual Key Control

- Key and cylinder identified by industry standard alpha-numeric keyset symbols
- Concealed stamping on mortise and rim cylinders and bored lock cylinders available on the slide only (Item D or I )
- Cylinder-slide stamping available on 5100 and 6300 SARGENT LFIC (removable) cores, bored lock, mortise/rim cylinders (Item E, I D)
- Core side engraving available for 7300B Series up to 7 characters (Item F)
- Special key stampings available, such as "DO NOT DUPLICATE" or "CITY OF PHOENIX"
- XC and Signature cylinders not available with visual plug stamping
- XC and Signature cylinders available with only concealed slide stamping (Item D, E and I)
- Signature LFIC 10-6300 available with cylinder slide stamping (Item E)

**Note:** SARGENT will stamp alternate identity codes on cylinders and/or keys whenever requested. This alternate stamping can not be different if both are to be stamped. Master Level Keys can also be stamped with a single alternate code



#### Tamper Proof Packaging

For the highest level of security for the end user, Tamper Proof Packaging is used on all Master Keys, Signature key blanks and all restricted key blanks. This heat sealed shrink wrap identified with "SARGENT Sealed For Your Security" provides assurance of the integrity of the factory generated key system.

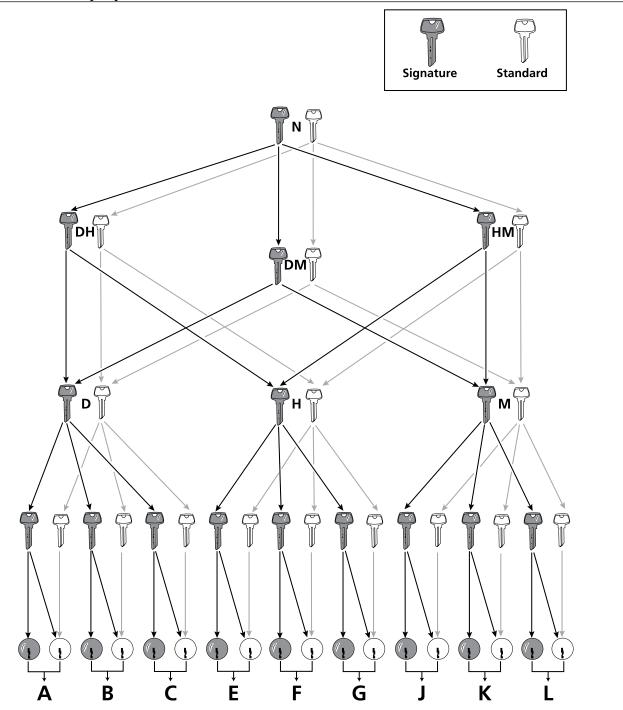
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SARGENT ASSA ABLOY

#### Signature vs. Standard Keyway Control

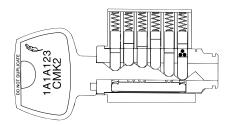


SARGENT Signature keys are produced with a special feature that allows them to operate Signature cylinders as well non-Signature cylinders within the same keyway family. The standard key does not contain the special feature which allows it to operate a Signature cylinder but will continue to operate non-Signature cylinders.

Signature key system can be easily blended into most existing facilities using the existing keyways (contact key records), but with the additional feature that allows operation only with Signature Keys. This prevents unauthorized access with a minimum effort. Typically all exterior cylinders and selected interior cylinders are upgraded to Signature to immediately stop unauthorized access, while still allowing one master to operate both types of cylinders.



#### With construction key in cylinder



The SARGENT Signature Cylinder employs what is known in the industry as the "Lost Ball" method of Construction Master Keying. Use the 21- as the option when ordering this feature.

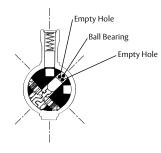
**Note:** Adding this feature to an existing SARGENT Master Key system may not be possible. Contact SARGENT key records department if this feature is required in an existing system

The SARGENT Signature Cylinder with "Lost Ball" method of Construction Master Keying is not offered with 10-63-. The 64- option is offered for construction keying when 10-6300 permanent cores are to be used.

#### With construction key in cylinder

# TATATO

#### Construction key rotating cylinder plug



Example shows "Lost Ball" construction feature in last chamber of cylinder. Construction feature can be used in any chamber.

The ball bearings lie flat with one positioned behind the other. They are not stacked.

#### To void construction key using the day/change key



Change key inserted in cylinder.



Change key rotated to position for extraction. Construction key now voided from cylinder.





Change key rotating. Construction balls fall into hole in the side of plug.

Construction key inserted after balls are trapped. Driver now extends into plug chamber. Construction key will not rotate.

**Note:** Ball bearings shown are for illustration purposes only. They do not stack, they align next to each other and lay flat.

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### Registration Forms Signature® Series

#### Signature Code Pattern Registration Form

		Registration Form	
100 Sa	rgent Drive New Haven, CT. 0	6511 Phone (203) 498-5540 Fax: (203) 77	16-5992
SECTION A Distributor	Information	(1) Date:/_	/
(2) Distributor Name:		(3) Acc	
(4) City:	(5	State: (6) Zip Code:	
(7) Contact Name:			
(8) Phone: ( )	(9)Fax: (	)	
SECTION B Facility Info	ormation		
(10) Facility Name:			
(11) Building Name:			
(12) Address:			
(13) City:	(14)	State: (15) Zip Code:	
(16) Area responsible for key sys	tem		
		Title:	
Authorizing Individuals		Title:	
Mailing Address			
Phone	Fas		
(Please ty	pe or Print Clearly)		
(17) Existing System? (Y/N)	(18) Existing TMK Co	de# (19) b	(wy:
		Hotel Cylinder Mky Qty	
SECTION C Area of Exclu	usivity Final Approv	al and assignment by Saragat	
21) National: (22)Adjacent			
		statts:	
SECTION D Authorization	1		
	FACTO	RY USE ONLY	
Keyway Family: Master	Sections: _N _D_	H_M_DH_HM_DM	
Single	Sections: _A _B _	C _E _F _G _J _K _L	2
Signature Code	PIN Code	Type (R /	(A)

The Signature Code Registration Form must be submitted prior to any purchase orders for products. This for is available from your authorized SARGENT distributor or SARGENT key records dept. @ 1-800-727-5477.

SARGENT

ASSA ABLOY

The information on this form is used by computer software to select the unique Signature code pattern for each key system and monitor the selection process to insure code patterns are not duplicated within the pre-defined area of exclusivity.

#### **Cover Sheet for all Keyed Orders**

		Menotive form: Put cursor over t RGENT KEYING ORDER INPOR			Hawla m	art a box in the form
Customer Account, Number	290	Purchase Order Number	MAININ OHEE IO		Note See	chi Shipping Addresses on Page 3
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Contact:				Phone:		Fare:
Facily Name:				Bulling Name:		
Facily Contact:				Phone:	·	Fax:
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	Changes per ma	rsler			Wind part and ng control declay	
					Field Specified anyon	a autorialiy alaraa lalay
Master level 2	Changes per ma	oler	- 1	Autorization	Sum addated at	the clean manuals ( any well
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				100110-002002		ached For New Sto Code
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SARGENT has created a new order lead sheet. This form must accompany any purchase order containing product for the Signature cylinders and keys.

SARGENT recommends that the form accompany any purchase order for master keyed systems.

### How to Order/Special Features



#### Signature<sup>®</sup> Series

#### How to Order

In order to obtain a unique SARGENT Signature pattern, a pre-authorization form must be sent to SARGENT's Key Records department in New Haven, CT. SARGENT will reserve a specific Signature pattern for the particular end user.

All purchase orders received by SARGENT for Signature products must be accompanied by a letter of authorization from the end user, including his registered Signature pattern and 8 digit pin code.

10- option has been created to assist in identifying when a SARGENT product include the Signature cylinder feature.

When ordering, use 10- as the option to indicate that the product requires the Signature feature (e.g., 10-8226 LNL x 32D, 10-10G05 LL x 32D, etc.) If other options are being used, be sure that the Signature option appears first (e.g., 10-63-10G05, 10-21-8226 x 32D, etc.)

#### **Special Features: VKC and Cut Key Options**

#### **Visual Key Control**

Visual Key Control will incorporate the standard industry key symbol identification. The Visual Key Control feature will appear on the key blank only. Stamping on the face of the barrel is not possible due to space limitations and security reasons. Concealed stamping of the key set on the slide is available as an option. All keys will have the Signature facility code with the Signature Quill logo.

#### Special Key Blank Stamping

The Signature Key Blank is offered in two versions to accommodate a variety of key bow stamping options.

Version one: The key blank has the standard SARGENT logo embossed on one side. The other side has the Signature Quill Logo, Do Not Duplicate, specific Signature code pattern, keyway and space for one additional line of stamping such as key set.

**Version two:** The key is less SARGENT logo. This allows for additional space for optional stamping such as custom field stamping. The other side has the Signature Quill Logo, Do Not Duplicate, specific Signature code pattern key way and one additional line for stamping such as key set. Key set symbols or alternate symbols will be stamped on all master keyed orders.

06/18



SARGENT Manufacturing Company 100 Sargent Drive New Haven, CT 06511 USA 800-727-5477 www.sargentlock.com ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

Founded in the early 1800s, SARGENT® is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets. Copyright © 2007-2018, Sargent Manufacturing Company, is prohibited.

### 436-1 TOP LOADING TOOL KIT

### ASSA ABLOY

SARGENT

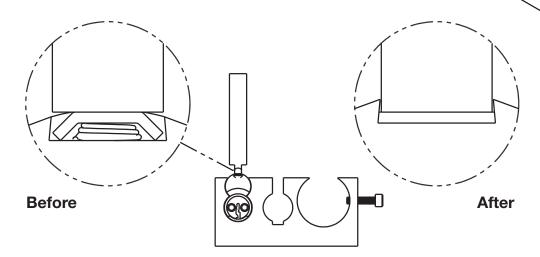
FOR ASSISTANCE CONTACT SARGENT AT 800-727-5477 or www.sargentlock.com

The 436-1 kit is used to install new slides in top loaded cylinders. This kit can be used on (10-) 6300 cores manufactured after March 2006. (See below) and bored/mortise/rim cylinders made after May 2008 that include "oo" mark the back of the cylinder(see details below)

For 6300s removable core cylinders determine your bottom and master pins by using instruction sheet A6409 attached.

Use SARGENT pin kits 437C or 437S in conjunction with 437 RC/UL kit and top load each chamber accordingly.

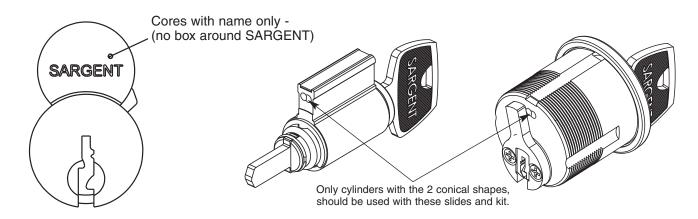
**Note:** When pinning 6300 cores chambers 3 and 4 require the use of hollow driver pins and springs found in kit 437RC/UL.



Locate slide over all springs and depress down with slight pressure using tool.

Gently tap tool to secure slide in to dovetail slot as shown above.

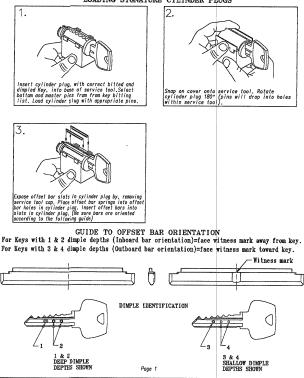
When re-pinning existing keyed cylinders, remove old slide with a sharpened flat tool and discard.



Only 6300 cylinders without the box around SARGENT and Bored/Mortise/Rim cylinders with the 2 conical shape marking can be used with this kit.

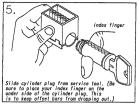
To reorder slides for the 6300 cores, 6 pin 40 series mortise, Bored and Rim use p/n 13-1341. For 7 pin mortise and rim cylinder use p/n 13-1797 (ordered separately).



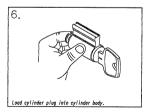


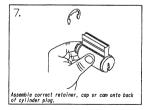
#### HOW TO ASSEMBLE SARGENT SIGNATURE CYLINDERS LOADING SIGNATURE CYLINDER PLUGS

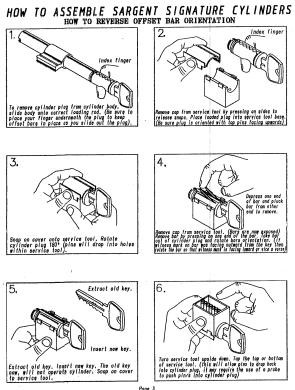




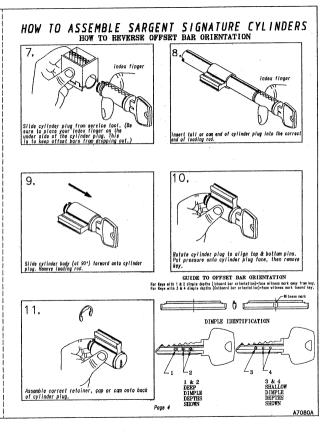
For body loading information refer to cylinder body Instruction sheet A7079A







Page 3



### 436-1 TOP LOADING TOOL KIT

### ASSA ABLOY

SARGENT

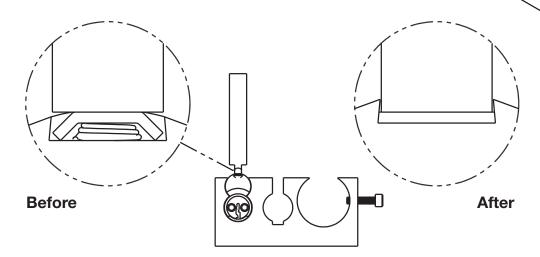
FOR ASSISTANCE CONTACT SARGENT AT 800-727-5477 or www.sargentlock.com

The 436-1 kit is used to install new slides in top loaded cylinders. This kit can be used on (10-) 6300 cores manufactured after March 2006. (See below) and bored/mortise/rim cylinders made after May 2008 that include "oo" mark the back of the cylinder(see details below)

For 6300s removable core cylinders determine your bottom and master pins by using instruction sheet A6409 attached.

Use SARGENT pin kits 437C or 437S in conjunction with 437 RC/UL kit and top load each chamber accordingly.

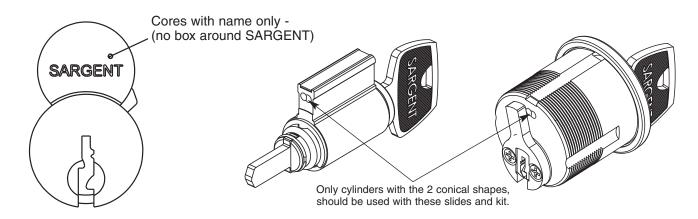
**Note:** When pinning 6300 cores chambers 3 and 4 require the use of hollow driver pins and springs found in kit 437RC/UL.



Locate slide over all springs and depress down with slight pressure using tool.

Gently tap tool to secure slide in to dovetail slot as shown above.

When re-pinning existing keyed cylinders, remove old slide with a sharpened flat tool and discard.



Only 6300 cylinders without the box around SARGENT and Bored/Mortise/Rim cylinders with the 2 conical shape marking can be used with this kit.

To reorder slides for the 6300 cores, 6 pin 40 series mortise, Bored and Rim use p/n 13-1341. For 7 pin mortise and rim cylinder use p/n 13-1797 (ordered separately).

### Signature<sup>®</sup> Series Information and Field Service Guide





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Thank you for selecting SARGENT's Signature protected security cylinders and keys to protect the integrity of your facility and its master keying system.

This Information and Field Service Guide has been developed to assist you in understanding and servicing your SARGENT Signature cylinders and keys.

SARGENT has created your registered code pattern exclusively for your facility.

It is imperative that you protect this information so it remains confidential and known only to those individuals authorized by you and SARGENT's Key Records Department. Again, thank you for selecting SARGENT Signature.

SARGENT Manufacturing Company reserves the right to make changes in design and specification or to make additions and improvements to the Signature cylinders and keys without notice and without obligation to incorporate them into previously manufactured products. SARGENT Manufacturing Company is not responsible for any non-SARGENT modifications, additions, or alterations to the Signature cylinders and keys.

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#### Your Unique Signature Pattern

The SARGENT Signature Series protected cylinder and key program is a unique configuration of internal components within the cylinder barrel, body and dimpling on the key.

The blending of these components and machining processes provides SARGENT a vast number of unique individual patterns. - Aller and a second

Your particular pattern has been chosen from that assortment.

In essence we have created individual keyways for a facility's Signature cylinders and keys.

To further protect your Signature system, SARGENT assigns a Signature Series seven-digit code pattern.

That Signature configuration process is protected by the United States SARGENT is committed to restricting and controlling the distribution of these protected patterns.

Based upon a pre-defined geographical area, Signature code patterns will not be issued to any other facility within the agreed upon geographical boundaries.

Component parts containing your Signature code pattern (keys, complete cylinder assemblies and cylinder barrels) are only available for purchase through an authorized SARGENT distributor.

Please refer to the section entitled "How to Order Signature Components" for further information.

#### Protecting Your Signature Code Pattern

The dimple configuration on your Signature code pattern is milled into the key blank at the SARGENT factory. In order to maintain the control, security and integrity of your key system, it is vital to limit access to your Signature key blanks.

Whether you have your own internal lock and cylinder servicing capabilities or depend on an outside service, it is important that you place orders for your facility with an authorized SARGENT distributor for components containing the unique Signature pattern (keys, key blanks, cylinders, cylinder barrels). An updated record containing the name, contacts, and address of your selected servicing group must be on file at SARGENT with any changes reported to SARGENT on your letterhead.

For those in need of an outside service for cylinder keying, key cutting and system maintenance, please contact your SARGENT distributor.

The SARGENT Signature feature is the interaction of unique components loaded into standard production cylinder parts modified to accept these components.

# How are the Cylinder Parts Modified?

The parts which are modified to accommodate the Signature components are the cylinder barrel, cylinder body and key blank. Modifications of these parts involve: milling and drilling the cylinder barrel, broaching grooves in the barrel chamber of the cylinder body and drilling dimples on both sides of the key blanks.

In order for the Signature feature to function, three holes are first drilled on each side of the Signature cylinder's barrel. The location of these drill holes creates the basis for the Signature pattern in both the cylinder and the key blank.

Two channels are then machined from front to back in the bottom of the cylinder barrel, one on each side of the keyway broaching.

Two corresponding grooves are then machined in the bottom of the body.

# What Are The Signature Components?

The components that make up the Signature feature are:

- A six (6) Signature Side Pins
- B two (2) Keyway Blocking Pins
- C  $\cdot$  six (6) Side Pins and Keyway Blocking Pin Springs
- D six (6) Side Pins and Keyway Blocking Pin Caps
- E four (4) Blocking Bar Springs (part no. 13-0986)
  - two (2) Blocking Bars (part no.13-0985) or 13-1109 (see below)

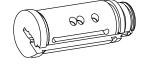
Order No. 13-0985 For cylinders with patent pending on keys or Feather logo opposite key way on bow ("V" groove or no witness mark)

Order No. 13-1109 For cylinders with patent No. 5,475,998 on keys or Feather logo above Patent (Radius groove) For cylinders with patent # 5,475,998 on key or "PAT." below Feather logo

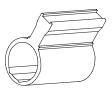
\*Note: Parts A, B, and C are factory installed. Removal voids all warranty.

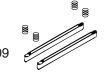






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James Decor





# Assembly of Signature Feature Inside the Cylinder

The Signature feature operates independent of your cylinder's master key system.

The Signature feature provides two locking points within the cylinder in addition to the locking created by the master key system.

Each of the holes drilled into the cylinder barrel for the Signature feature contains a side pin or keyway blocking pin and a side pin/keyway or blocking pin spring. Each hole containing these Signature feature pins and springs sealed at the factory with a plug. This plug is never to be removed. Lubrication is applied at the time the Signature pins and springs are sealed in the barrel.

The Signature feature pins are not to be serviced in the field.

Tampering with the side pins, side pin springs or plugs may cause the Signature feature to fail and render your cylinder inoperable.

As a final step, two blocking bar springs and a blocking bar are inserted into channels on the bottom of the cylinder barrel. These bars have an offset and the orientation of the offsets within the cylinder barrel is determined by the depth of the dimples on the keys. Information on orienting the bars and placing them in the cylinder barrel is given in the section "Field Servicing the Signature Feature".

# 5 How Does the Signature Feature Work

The two blocking bars on the bottom of the cylinder barrel are pressed by the blocking bar springs into the grooves on the bottom of the barrel chamber in the cylinder housing. The side pins, which are above the blocking bars, keep the blocking bars from rising out of the grooves. This action along with the master keying pins in the top of the cylinder, keep the cylinder barrel from turning and the cylinder from operating.

There are six dimples in each key, three on each side. There are six side pins in each cylinder barrel, one for each dimple in the key. When the dimples and side pins are correctly aligned and the sizes of the pins correspond to the depths of the dimple cuts, the offsets in the blocking bars are aligned with grooves on the side pins, which is necessary for cylinder operation.

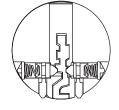
The following describes the interaction of the key and the cylinders:

When the correct Signature key (correct code pattern of dimples and master keying cuts) is inserted into the Signature cylinder:

- · Side pins are pressed by the side pin springs into the dimples on the key
- · Offsets in the blocking bars are then aligned with the grooves on the side pins
- Master keying pins are pressed by driver springs into the cuts on the top of the key creating a shear line at the top

The initial turning of the key and corresponding turning of the barrel results in:

- Blocking bars rising out of the grooves in the bottom of the barrel chamber
- · Offsets in the blocking bars seating in the grooves on the side pins
- · Key and cylinder barrel then turn freely inside the cylinder housing







# 6 Field Servicing the Signature Cylinder

#### **Types of Servicing**

Over the course of time, there are several types of field servicing that the building owner may need to perform on the Signature cylinder.

- · Pinning a new or re-combinating an existing Signature cylinder
- Cutting Signature keys
- Lubrication

#### Pinning a New or Re-combinating Existing Signature Cylinders

Pinning new or re-combinating existing Signature cylinders is accomplished in the same manner as any SARGENT pin tumbler cylinder.

Four basic steps are required to pin a Signature cylinder:

- 1) Load the barrel with bottom pins and master splits
- 2) Insert the Signature blocking bars and springs
- 3) Load the cylinder body with drivers and springs
- 4) Final assembly

When repinning a Signature cylinder, it may not be possible to remove all of the bottom pins and master splits with any one key. It may be necessary to dump the entire cylinder load including the drivers and springs.

When assembling the plug/barrel in a new or re-keying an existing Signature cylinder, it is not possible to contain all the bottom and master splits with any one key from the key system. The load key will assist you in inserting a fully loaded Signature plug into the loaded Signature cylinder's outer body. To make a load key, cut a key on the appropriate Master Key Section blank with all #0 (10) bittings. Remove the peaks between each cut.

As this key is cut to all #0 cuts, it will allow all of the bottom and master splits to be contained in the plug for easy assembly into the cylinder body.

Remember that the side pins and keyway blocking pins, side pin and keyway blocking pin springs and plugs do not require servicing and should not be disturbed. Recombinating the master key pinning does not require disturbing the blocking bars or blocking bar springs (The tools provided in your Signature pinning kit are designed to avoid disturbing these parts unintentionally).

Important: Care is required when disassembling a Signature cylinder to insure that the Signature blocking bars and springs remain in place. Should the bars and springs fall out of the barrel, refer to instructions on how to replace these parts into the barrel.



# 7 Blocking Bar Configuration

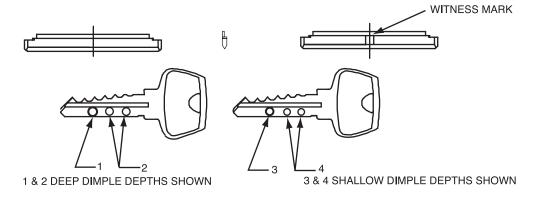
SARGENT's Signature cylinder contains two (2) blocking bars.

The bar is placed so that the witness mark side of the bar is either toward the keyway broaching or away from the keyway broaching.

## GUIDE TO OFFSET BAR ORIENTATION

FOR KEYS WITH 1 & 2 DIMPLE DEPTHS (INBOARD BAR ORIENTATION)-FACE WITNESS MARK AWAY FROM KEY.

FOR KEYS WITH 3 & 4 DIMPLE DEPTHS (OUTBOARD BAR ORIENTATION)-FACE WITNESS MARK TOWARD KEY.



The position of the bars is determined by the last (seventh) digit of the Signature code pattern stamped on the keys to be used.

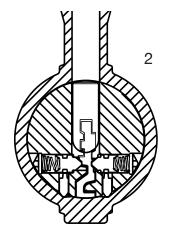
There are currently two sets of configurations (positions) assigned by the factory for a Signature code pattern. They are identified by the digit 4 or 2 as the seventh or last character of the Signature code pattern.

See the illustration below for the proper orientation of the bars.

If necessary, reinsert the four blocking bar springs (two for each blocking bar or one for each end of a blocking bar) and then the bars (in the correct configuration) as illustrated below.



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# 8 Signature Pin Kit

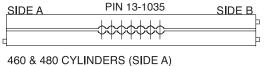
SARGENT has developed the Signature Series cylinder to be very simple to maintain and service. In keeping with this concept, SARGENT has a pin kit (catalog part #437S) and tools to assist in the field servicing of the Signature cylinder.

#### **Components of the Signature Pin Kit**

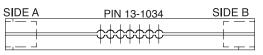
The pin kit contains 100 each of all the standard pins and springs required to accomplish pinning the master keying of the removable core cylinder. It also contains the necessary tools for assembling Signature featured cylinders.

When rekeying 10-6300 Signature Removable Core Cylinders, 437 RC/UL Rekeying Kit is needed in conjunction with 437S.

SARGENT created two types of barrel loading rods (part #13-1034, 13-1035). These followers are uniquely configured at each end to accommodate the different barrel configurations for the different types of Signature cylinders (mortise, rim, cylindrical).

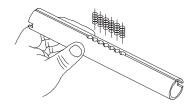


460 & 480 CYLINDERS (SIDE A 6300 R.C. RIM & MORTISE CYLINDERS (SIDE B)

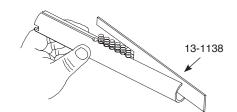


7, 8 & 9 LINE CYLINDERS (SIDE A) 6, 10, 5500 & 6500 CYLINDERS (SIDE B)

The loading rods have also been machined to simplify the loading of the Signature cylinder outer body with driver pins and springs (a standard part of the master keying process).

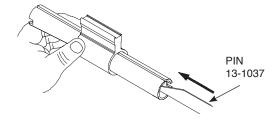


A spring depressing tool (part #13-1138) and a transfer knife (part #13-1037) are included to assist in transferring the driver and spring loads to the Signature cylinder body.

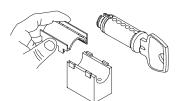


There is a set of tweezers with tips specially designed for picking up cylinder pins.





There is a field service tool (part #13-3916) that has been included to assist in loading or re-orienting the blocking bars.



The blocking bars (part #13-0985 and 13-1109) and blocking bar springs (part #13-0986) are part of the Signature pinning kit.

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# 9 Cutting Signature Keys

Signature protected key blanks in your assigned code key pattern are available only from the SARGENT factory or through an authorized SARGENT distributor.

(See section "How to Order Signature Components" for further details).

No special equipment is required for cutting new or copying existing key bittings onto the dimpled Signature key blanks. This process can be accomplished using any industry standard key cutting or duplicating equipment.

#### Lubrication

Since the Signature side pins and side pin springs are assembled, lubricated and sealed at the factory, it is not necessary to service these components.

When lubrication is required, SARGENT recommends the use of SARGENT ASSA lube (P/N 18-0070) or spray lubricant such as "Poxylube" dryfilm lubricant CP-200.

Frequency of lubrication is dependent upon use when used on exterior doors.

Lubrication twice a year on normal use and more often for high use or exterior doors.

**Note:** It is important that you don't use liquid lubricants such as WD40. The use of solvent based liquid lubricants will create a gummy sludge within the cylinder and can affect the operation of the cylinder and its components.





## **10** Signature's Affect on the Master Key System

Your master key system is not affected by the Signature feature (other than making it more secure). As its functions are independent of the Signature feature, maintenance is no different than any other key system.

The separation between its function and the Signature features allows the end-user to introduce the Signature feature into most existing SARGENT factory-generated master key systems.

**Note:** While it may be possible to introduce the Signature feature into a field-generated master key system, it is necessary that the Keying Department at SARGENT review the system before agreeing to issue a Signature code key pattern for the system. Contact the Keying Department at SARGENT for further instructions on meeting this requirement.

# **The Authorization Process**

SARGENT uses a computer software system that creates a PIN (Personal Identification Number) code to assure that we process only authorized orders for your facilities' Signature products.

When the Signature code pattern was initially registered, you should have received an acknowledgment containing your seven-digit code pattern and a PIN (Personal Identification Number) code. This PIN code should be used when placing an order with an authorized SARGENT distributor for any Signature components (cylinders, keys, key blanks, parts) for your facility. Once the PIN code has been used, a new one will be sent to the designated person(s) at your facility.

Every order for existing Signature products must have a Signature Code Pattern and meet one of the below criteria for security authorization:

- Valid PIN Code
- Letter of authorization from end user
- Product to be drop shipped to the same authorized end user on Letter of Authorization
- Copy of end users purchase order signed by the same person authorized in SARGENT's file



# **12** Acknowledgment Process

A new PIN code is generated as each new purchase order for your Signature products is processed, or a new PIN code will be generated upon the end user (system owner's) request.

An acknowledgment containing the new PIN code will be mailed directly to your facility from the factory. This acknowledgment will be sent via a mailing process and it will be addressed to the attention of the area and authorized person(s), on record at the SARGENT's Key Records Department. This letter should be signed by one of the authorized individuals who is to remain on our list of authorized person(s). The outside of the mailing envelope will be stamped "CONFIDENTIAL".

The information for the area responsible for the key system and the authorizing individuals must be kept current. If this information needs updating, please send a letter with any changes to the Key Records Department at SARGENT on the end user's letterhead.

# **13** How to Order Signature Components

All orders for Signature Components (cylinders, keys, key blanks, parts) must be placed through a factory authorized SARGENT distributor. Please include on your purchase order the following information:

- · Signature seven-digit Code Pattern assigned to your facility
- · The current PIN code assigned to your facility
- The zip code of the specific facility or building to which the Signature Code Pattern is assigned. The zip code is registered at the time your Signature Code Pattern is assigned
- \* As an alternative to the PIN code authorization, SARGENT will accept a letter from the system owner with each order, signed by an authorized person, upon which the end user will grant the distributor written permission to order the Signature product.

If you need the name or address of a factory-authorized SARGENT distributor in your area, please call SARGENT at 800-727-5477.





SARGENT Manufacturing Company 100 Sargent Drive New Haven, CT 06511 USA 800-727-5477 www.sargentlock.com ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

Founded in the early 1800s, SARGENT\* is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets.

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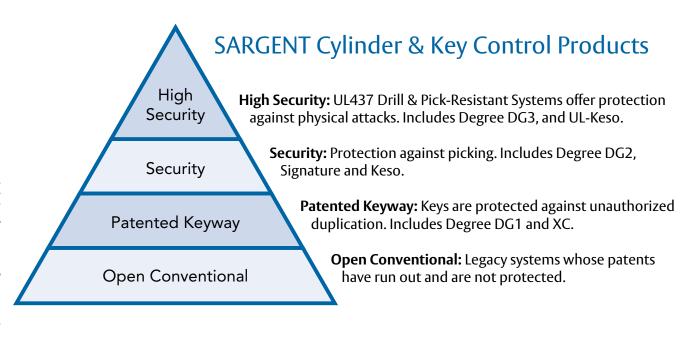


ASSA ABLOY, the global leader in door opening solutions

# Cylinders XC Series

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See product catalogs for more information

XC 41 Mortise Cylinder XC 7P-7300B Small Format Interchangeable Core XC 10 Line Cylinder

# KeyWizard™ Key Management Software

## **Cylinders and Components**

#### SARGENT'S KeyWizard™ 5.5 Software Package Tracks Multiple Key Systems Including Keys, Keyholders, Locations, and Hardware Information

This comprehensive key management software package was developed for locksmiths and end-users to track detailed information.

The program features easy to navigate, non-cluttered screens and uses a format similar to Microsoft® Outlook™.

#### Features:

- Free Technical Support at 1-800-610-1706 and system upgrades for 1 year
- Website support at www.keywizard.net
- Multi-level passwords and access levels .
- Clear, easy to read screens
- Manages multiple end user key systems
- Customized query, reporting and search capability ٠
- Global searching across multiple key systems
- Comprehensive hardware schedules
- Keyholder photos and signatures for identity verification
- Scheduled maintenance and reminders for overdue keys and back-ups

#### How to order for new users:

Single License Version — KW-SS1 Network Version — KW-SSN1 Demonstration Version — KW-DEMO1

How to order, if upgrading from KeyMinder\*:

Single License Version — UP-KW-SS1 Network Version — UP-KW-SSN1

\*consult factory for eligibility requirements

**Keying Data** 

Keying data (key sets and bittings) is available for order with new or existing systems to eliminate the need for manual data entry into Key Wizard. Place order based on size of system.

Accurate key symbol sorting

key deposits

and e-mail

Pinning calculators

Editable field titles

Multi-level key authorizations and

Network and stand-alone versions

Reports options including printing in a variety of formats

Ability to connect to a website and search for any updates

Cylinder and key random serial ID generator

Key authorization forms that can be printed at will

Part Number	Description
DLKW1	1 to 50 bittings
DLKW2	51 to 200 bittings
DLKW3	201 to 1000 bittings
DLKW4	1001-3000 bittings
DLKW5	3001-6000 bittings
DLKW6	6001-9000 bittings
DLKW7	Over 9000 bittings

#### **Computer System Recommendations:**

#### **REQUIRED:**

- 350 MHz processor
- 60 MB hard disk space
- Windows<sup>®</sup> 7, Vista, XP, NT, ME, 2000 or 98
- 64MB Ram
- CD drive

#### **RECOMMENDED For Better Performance:**

- 500 MHz or faster
- 70 MB or more
  - Windows® 7, Vista, XP, NT, ME, 2000 or 98

64MB Ram CD drive

#### **BITTING LISTS**

Paper bitting lists provided at no charge for factory corresponding keyed orders when requested at time of hardware order. An owners letter of authorization must be attached to all purchase orders. Existing key system bittings lists are also available contact key records for more information.



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# Features, Benefits & Components XC Series

The XC Series offers a new dimension in higher security cylinders and key control. The system features specially designed, patent protected keys which operate XC Cylinders and Conventional cylinders in one key system. XC Series cylinders can be integrated into most existing SARGENT systems (contact key records for compatibility) or as a new system. Multiple security levels are available to provide key control, convenience and service that meet the demands of each installation.

SARGENT offers bump resistant cylinders that employ specially engineered patent pending pinning components designed to resist bumping while maintaining the cylinder's strength.

#### The bump resistant feature is available for the following cylinders (6 pin only).

• Mortise, Rim & Bored Cylinders: Conventional and XC (11-)

#### Features

- Patented XC- 6 pin conventional cylinders, XC- large format interchangeable core cylinders and XC- 7 pin small format interchangeable core cylinders in 4A keyway along with key blanks are sold only through authorized SARGENT distributors
- Precision built to extremely close tolerances and the highest standards of quality
- Captive independent locking mechanisms are controlled by the XC key
- Standard cylinder pins are complemented by the independent XC Locking Slide Pin and activated only by the XC Key
- Available in finished locks, complete cylinder assemblies and shell/ plug components
- Available in standard SARGENT keyways L and R families only
- XC keys can be cut to operate non-XC conventional cylinders
- XC key blanks can easily be cut on standard key duplicating machines
- XC Cylinders are available with Bump Resistant Pins by specifying BR- Option
- XC Cylinders can be upgraded in the field with Bump Resistant Pins with the Bump Resistant Re-pinning Kit (437BR Kit)
- Available with and for most SARGENT products in conventional, construction, SFIC and LFIC cylinders
- Consult individual product catalogs for availability
- Patent pending and/or patent www.assaabloydss.com/patents

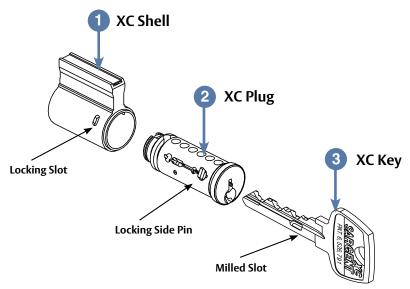
- Benefits
- 7 Pin Small Format Interchangeable Cores in SARGENT 4A & 4B keyways only

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- Increased security and key control by limiting unauthorized duplication
- Versatile design for new systems; retrofits most existing key systems. Consult factory for compatibility. Easily field keyed and maintained. Ideal for new construction.
- Cost effective method to increase security of existing systems without having to install a completely new system
- Security of a system can be increased where needed without having to issue all new keys
- Maintain and expand existing key systems using similar SARGENT products
- The interchangeable core option allows for fast and easy keying without having to disassemble the lock from the door or cylinder from knob/lever
- XC also available in 6300 (LFIC) removable cores for fast, easy rekeying without disassembling the hardware. Not available with all existing hardware. Some mortise locks and rim cylinders may require modification. Only 8 Line and bored locks that use removable tail pieces will require new tail pieces. See page 8 for compatibility.
- Easily field keyed with standard pinning kits

#### Components



Cylinders supplied to existing keys systems are not supplied with control, emergency of master keys unless specified on the order.

# 1 XC Shell\*

The locking slot in the XC shell accepts the plug's locking side pin preventing the plug from rotating when engaged. The XC key with the properly cut and side mill inserted into the plug allows the plug to rotate freely in the shell.

#### 2 XC Plug\*

The XC plug is factory loaded with captive locking side pin mechanism which extends into the XC shell, preventing rotation until a properly milled key is inserted.

#### 3 XC Keys\*

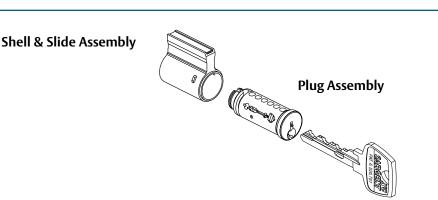
The XC key has a side milled slot to activate the locking side pin mechanism in the XC plug. The key's milled slot location is determined by keyway use. Standard key cutting can be done in the field on XC keys. The XC keys will operate standard SARGENT, non-XC cylinders. Two keys are provided standard with each cylinder.



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# Bored & Auxiliary Lock Cylinders XC Series



#### **Bored Locks**

	Complete		Shell & Slide
Locks	6 pin Assembly	Plug Assembly	Assembly
T-Zone (11 Line)	11-C11-1 (13-4562)	13-4332	13-4334
10 Line	11-C10-1 (13-4560)	13-4332	13-4334
9 Knobs***	11-C8-1 (13-4568)	13-4331	13-4335
8 Knobs***	11-C8-1 (13-4568)	13-4331	13-4335
8L ***	11-C10-1 (13-4560)	13-4332	13-4334
7600 ***	11-C7600-1 (13-4582)	13-4312	13-4339
7 Knobs***	11-C8-1 (13-4568)	13-4331	13-4335
7 Line	11-C10-1 (13-4560)	13-4332	13-4334
6500	11-C10-1 (13-4560)	13-4332	13-4334
6 "B" Knob	11-C6-1B(13-4566)	13-4332	13-4336
6 "S", "N" Knobs	11-C6-1 (13-4564)	13-4332	13-4336
5500	11-C5500-1 (13-4570)	13-4328	13-4338
8X Line	11-C8X-1(13-5205)	13-4328	13-4338

#### Auxiliary Locks (Deadbolts)

	Complete		Shell & Slide
Locks	6 pin Assembly	Plug Assembly	Assembly
464***	11-C460-1 (13-4578)	13-4329	13-4337
465***	11-C460-2 (13-4580)	13-4329	13-4337
474	11-C480-1 (13-4572)	13-4330	13-4337
475	11-C480-3 (13-4576)	13-4330	13-4337
484	11-C480-1 (13-4572)	13-4330	13-4337
485	11-C480-2 (13-4574)	13-4330	13-4337
486	11-C480-3 (13-4576)	13-4330	13-4337
487	11-C480-2 (13-4574)	13-4330	13-4337

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• Plug finishes: 4, 15

\*\*\* Discontinued Product Line

• Available for all functions except 50 function

Plug finishes: 4,15

Note: Use SARGENT 437 C pinning kit for field rekeying

For masterkeyed orders include Keyed Order Leadsheets with keying details as found in General Information section of price book Parts shown on this page are unique to the XC feature. These plugs and shells cannot be used with non-XC components. For all other cylinder components, refer to the standard Cylinder & Components section. XC 11- option not available with 10-, 22-, 51-, 52-, 82-, 83-, 84-, SC- or SE- options.

#### 11-758 Padlock Features

- Cylinder easily removed while in the unlocked position for rekeying
- 6 pin cylinder standard
- Shackle locked by dual ball bearings
- Higher security key capture feature standard
- Key only removed in locked position
- All shackles 5/16" (8m) diameter
- Optional 11-63 XC LFIC (removable) core available

Complete Padlock	11-758 x Shackle height	
Shackle Height (closed)	1" (25mm) standard, 2" (51mm) (-2 suffix) and	
	4" (102mm) (-4 suffix)	
Shackle Material	Stainless steel -standard	
	Boron hardened steel (-HS suffix)	
	Brass chain 9" (228mm) long (-C suffix)	
Cylinder assembly with tail piece	13-4584	
Plug assembly	13-4332	
Shell & Slide assembly	13-4334	
Tail piece only	13-1230	

Note: XC 11- option not available with 10-, 22-, 51-, 52-, 82-, F1-82-, 83-, F1-83-, 84-, SC-or SE- options.



**11-758-C Shown** (Optional chain shown)

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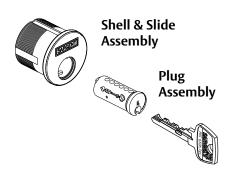
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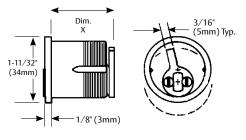
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#### **11-40 Series Mortise Cylinders**

Complete 6 pin Assembly	Dim. X Length Under Cylinder Head		Plug Assembly	Shell & Slide Assembly
11-41	1-1/8"	(29mm)	13-4314	13-4301
11-42	1-1/4"	(32mm)	13-4315	13-4302
11-43	1-3/8"	(35mm)	13-4316	13-4303
11-44	1-1/2"	(38mm)	13-4317	13-4304
11-46	1-3/4"	(44mm)	13-4318	13-4305
11-48	2"	(51mm)	13-4319	13-4306
11-50	2-1/4"	(57mm)	13-4320	13-4307
11-52	2-1/2"	(64mm)	13-4321	13-4308
11-54	2-3/4"	(70mm)	13-4322	13-4309
11-56	3"	(76mm)	13-4323	13-4310

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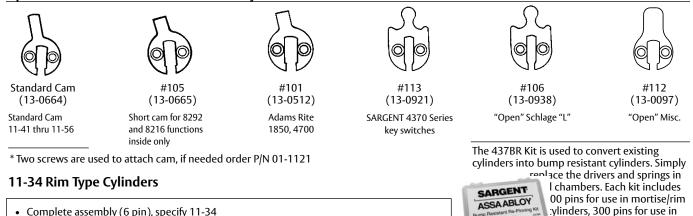
Cylinder: Solid brass, 1-5/32" (29mm) diameter

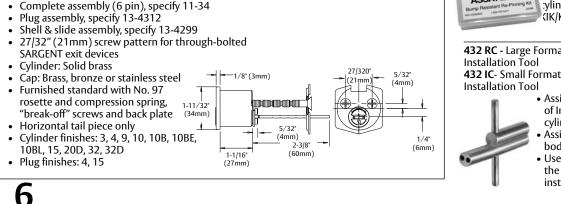
- Cap: Brass, bronze or stainless steel
- Available for all functions, except 50 function
- Furnished standard with No. 97 rosette and compression spring when ordered less hardware
- Optional Collars/Spacers available and ordered separately, refer to product catalogs for additional information
- Mortise cylinder assemblies that are ordered without hardware are supplied with standard SARGENT offset cam 13-0664
- Cylinder finishes: 3, 4, 9, 10, 10B, 10BE, 10BL, 15, 20D, 32, 32D
- Plug finishes: 4, 15

#### Note: Use SARGENT 437C pinning kit for rekeying

For masterkeyed orders include Keyed Order Leadsheets with keying details as found in General Information section of price book Parts shown on this page are unique to the XC feature. These plugs and shells cannot be used with non-XC components. For all other cylinder components, refer to the standard Cylinder & Components section. XC 11- option not available with 10-, 22-, 51-, 52-, 82-, 83-, 84-, SC- or SE- options.

#### **Optional Cams for 11-40 Series Mortise Cylinders\***





ylinders, 300 pins for use in (IK/KIL cylinders and 600 springs.

432 RC - Large Format Interchangeable Core 432 IC- Small Format Interchangeable Core

- Assists in the installation of Interchangeable Core cylinder bodies
- Assists in threading the cylinder body into the mortise lock
- Used to check the function of the cylinder in the lock before installing the cylinder core

# 11-6300 Series Large Format Interchangeable Cores (Removable) **XC** Series

SARGENT XC 6300 Large Format Interchangeable Core (Removable) Cylinders offer a quick and easy method to change cylinders for increased security. The lock does not need to be removed from the door to rekey the opening. The XC core offers a patented cylinder option for full size LFIC (removable) core SARGENT cylinders.

Note: The XC cores will only work in SARGENT hardware ordered to accept them with the 11-60 or 11-63- or will need to upgraded in the field. Mortise and rim cylinder housings made with shorter version posts to accept the 11-6300 core can be used without modification. Not all lever style bored locks will accept this 11-6300 core. Only products with removable tail pieces that insert in the back of the core are compatible by using with new tail pieces. Existing 480 Deadbolt Series will require conversion. See page 8 for compatibility and parts needed to upgrade exiting hardware to accept the 11-6300 core.

#### 11-63- Option Permanent LFIC (Removable) Core Cylinders

• SARGENT XC LFIC (Removable) Core Cylinders and Master Key Systems are available for a quick change of cylinders for increased security. It is not necessary to remove the lock from a door to rekey the opening.

This XC core offers a patented cylinder option for full size removable core SARGENT cylinders. These XC cores will only work in hardware ordered to accept them with the 11-60 or 11-63- or will need to upgraded in the field. See the next page for parts needed and SARGENT hardware available for upgrading to XC 6300s.

- Special "control key" (catalog P/N X6272 CTL) is used to release a locking cam allowing immediate removal of the core
- Available for use in many SARGENT products (Exit Devices, Mortise locks, Bored locks and padlocks)
- Can be master or grandmaster keyed
- 6-Pin only
- 1 bitted available for field keying
- 1 bitted cylinders supplied with 2 key blanks, pins and springs in chambers in 3 and 4 only
- Wide variety of master key systems available
- Permanent (keyed removable) cores supplied with hardware unless specified otherwise



- Available in the following SARGENT keyway families: L & R families only.
- Finishes: 4, 15
- When ordering, use Cat # 11-6300; include finish.
- For masterkeyed orders include Keyed Order Leadsheets with keying details as found in General Information section of price book
- Request Control Key (X6272CTL) if required
- 1 bitted cylinders only pinned with pins and springs in the 3rd and 4th chambers. Two key blanks provided

#### 11-60-Option Disposable Plastic Core 11-6300 Series Parts Only



- During the construction phase in non restricted areas, disposable plastic cores can be used, eliminating use and distribution of the actual keys
- Order hardware with 11-60 to accept 11-6300 permanent cores ordered separately
- Once construction is near completion, the permanent keyed cores will be installed and the building secured; permanent keyed cores are ordered separately
- Disposable cores are typically used on interior doors
- Operate with coin or flat screw driver
- One piece design allows for easy installation
- To order plastic temp. core separately: Use p/n 13-5177

#### 11-64 Option Construction Keyed **LFIC Keyed Cylinders**

- The SARGENT 11-6400 LFIC brass construction core (order 11-64- Option with SARGENT products) enables doors to be locked during project construction period
- Using 11-6400 cores prevents keys for the permanent key system from becoming available during the construction process
- After construction is completed, the 11-6400 brass cores are removed and replaced with 11-6300 keyed permanent LFIC cores
- A special control key releases the locking sleeve of the cylinder core allowing immediate removal of the core
- Construction cores are all keyed alike in one KA kevset
- Furnished with 6 keys and 1 control as standard
- Plug face dimpled for easy identification

6400 Brass Core

- 13-4326 Plug, Finishes: 4, 15
- Inner Shell & Slide Assv. 13-5175
  - Finishes: 4, 15
- 13-0796 Control Sleeve
- 01-0660 Plug retaining ring 13-1341 Slide for Cylinders WITHOUT
  - a box around the word SARGENT (Mfg after 3/06)

Uses the same pins and principles of 6300 cores, For pins, springs and keying kits see page 16 and 17 of conventional catalog pages 16 & 17.

#### 11-63-34 Rim Cylinder

- Housing: Solid brass
- Cap: Brass, bronze or stainless steel
- Furnished standard with No. 97 rosette and compression ring when ordered with out hardware
- Includes the same tailpiece and screw hole pattern as the #34 cylinder
- Finishes: 3, 4, 10, 10BE, 10BL, 15, 20D, 32, 32D

#### 11-63-40 Series Mortise Cylinders

- Cylinder: Solid brass 1-5/32" (29mm) diameter
- Cap: Brass, bronze and stainless steel
- See 11-6300 cam options on page 8
- Available in the following lengths:

Cylinder#	11-63-42	11-63-43	11-63-44	11-63-46
Length		1-3/8"		
_	(32mm)	(35mm)	(38mm)	(44mm)



 Furnished standard with No. 97 rosette and compression ring

Optional Collars/ Spacers available and ordered separately,

refer to product catalogs for additional information

- Other SARGENT keyways available
- Finishes: 3, 4, 9, 10, 10B, 10BE, 10BL, 15, 20D, 32, 32D

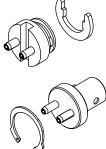
#### 11-60- Mortise Cylinders

11-60-42- up to size 46 same as above, but supplied with plastic disposable plastic core

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#### 60-34 Rim, 8-Line and 480 Series Conversion Parts



Kit # 13-5178 for 11-63-34 Rim Cylinders

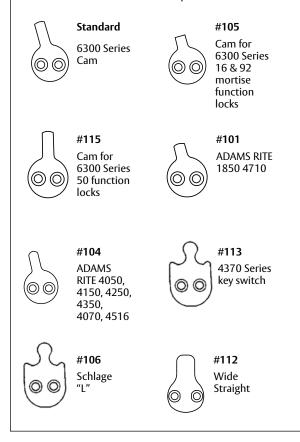
Kit # 08-5265 for 11-63-8-Line Knobs



Kit # 16-2508 for Cam Assembly for 11-63-Deadbolts

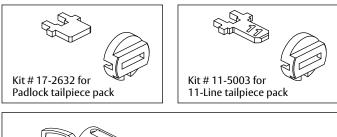
#### Cams for 11-6300 Large Format Interchangeable (Removable) Core Mortise Cylinders (Factory assembled to housing)

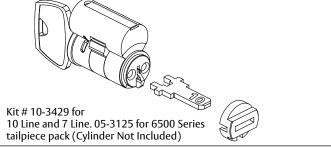
- 6300 Cams are factory installed and are not removable
- 6300 Cams are not sold separately
- Specify required Cam as a suffix: 63-44-105 cam
- For Standard Cam: No Suffix is required



#### 758/858 Padlocks, 11 Line (T-Zone), 10, 7, 6500 Line

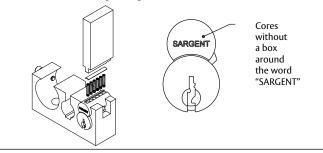
**Note:** Only locks with removable Tail Pieces can be upgraded to 11-6300 Cores





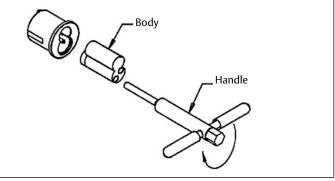
#### 436-1 Slide Block Kit

- Includes fixture and staking tool for use only with the 11- (10)- 6300 Series Cylinders manufactured after March 2006 for the ease of top loading in the field.
- The kit includes 100 each slides p/n 13-1341, Staking Block and Staking Tool .
- Cylinders manufactured after March 2006 will not include the box around the Sargent logo and can be used with this kit.



#### 431-6 Shear Tool

- Tool for preparing SARGENT 60-/63- mortise cylinders to accept 11-6300 XC cores
- Use Kit # 13-5178 for upgrading rim cylinders



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# 11-7P-7300B Small Format Interchangeable Cores **XC** Series



#### 11-7P-7300B Series Small Format Interchangeable Core (SFIC) Cylinders: 7 Pin Only

- SARGENT XC SFIC Cylinders are patented keys and cylinders for increased security. With a control key, these cylinders can be easily removed for rekeying. It is unnecessary to remove the lock from a door to rekey the opening. For use in SARGENT hardware only. Consult individual catalogs for product availability.
- SARGENT 11-7P Interchangeable Cores are available in SARGENT 4A and restricted 4B keyways
- 4A Keyway will be supplied standard on new systems
- A2 or A4 systems available
- Existing SARGENT mortise cylinders require core mounting pin modification, use pin shear tool (p/n: 431-7)
- Existing SARGENT bored locks require new tail pieces to accept XC SFIC cores

T-Zone (11 Line)	11-0276
10 Line	10-3138
7 Line	10-3138
6500 Line	05-0040

• XC 11- option not available with 10-, 22-, 51-, 82-, 83-, 84-, SC- or SE- options

#### 11-7P-7300B Keyed Small Format Interchangeable Core

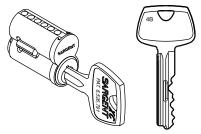
- Supplied with two nickel silver keys as standard
- Face includes SARGENT logo
- For use in SARGENT hardware only, consult individual catalogs for availability
- 11-7P-7300B (7 pin)
- If Control 11X7272 CTL or Master key 11X7282BMK is required order separately
- Finishes: 4, 15

#### 11-65-7300B Uncombinated **Small Format Interchangeable Core**

- Cores for field keying
- No pins, springs or key blanks provided
- No logo on face
- 11-65-7P-7300B (7 pin)
- Finishes: 4, 15
- Easily field keyed with SFIC keying kits in either the A2 or A4 pinning systems

#### 431-7 Shear Tool

• Tool for preparing SARGENT 70-/73- mortise or rim cylinders to accept 11-7300B 7 pin XC core



#### 11-70- Option Disposable Plastic **Construction Core For SFIC**

- Used for those doors that do not require key locking during construction but will be using permanent 11-7300 B cores
- Offered in 11-70-34 Rim, 11-70-43 & 11-70-46 Mortise Cylinders and many bored locks, consult product catalogs for availability
- Operate with coin or flat screw driver
- Two piece design allows for easy installation
- To order Disposable Plastic Construction Core only, specify:

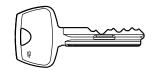
# 13-5174

#### 11-72-7P Option Brass Small Format Interchangeable Construction Core

- SARGENT 7200 Interchangeable 7 pin brass construction core (order 11-72option with SARGENT products) enables doors to be locked during construction
- Using 11-7200 cores prevents permanent key system keys from becoming available during construction process
- After construction is completed, 11-7200 brass cores remove and replace with 11-7P-7300 keyedpermanent interchangeable cores
- Plug face is blue for easy identification
- Special Control key (7254B CTL) releases locking sleeve of the construction core allowing for immediate removal of the core
- Construction cores are 7 pin and keyed alike
- Six (6) construction master keys (p/n 7254B CMK) and one (1) Control key included
- Cores shipped with hardware

#### **Key Blanks/Cut Keys** (Níckel Silver)

- Available in quantities of 100 each
- Packed 50 per box
- SARGENT Keyways: 4A, Restricted 4B
- Order 11-X7285B x Keyway
- Cut Master key 11-X7285 BMK x Reg. # Control key 11-X7282B CTL x Reg #



#### 11-73-7P-34 Rim Cylinder

- Brass cylinder and housing
- Furnished with No. 97 rosette, break off screws and back plate
- Housing accepts 7 pin core only
- Mounting holes located to match SARGENT hardware
- Finishes: 3, 4, 10, 10B, 26, 26D, 9, 10BL, 20D



#### 11-73-7P-40 Series Mortise Cylinders

- Two cylinder sizes
- 11-73-7P-43, 1-3/8" (35mm) length under cylinder head (including cam) 11-73-7P-43 (7 pin) 11-70-43 (shell less core)
- 11-73-7P-46. 1-3/4" (44mm) length under cylinder head (including cam) 11-73-7P-46 (7 pin)
- 11-70-46 (shell less core)
- 1-5/32" (29mm) diameter housing
- Furnished with (#97) cylinder rosette as standard
- Optional Collars/Spacers available and ordered separately, refer to product catalogs for additional information
- Cam is permanently staked to housing
- Housing accepts 7 pin core only
- Mortise cylinder cams operate current SARGENT hardware
- Offered with SARGENT standard offset cam only
- Hotel Function not available
- Finishes: 3, 4, 9, 10, 10B, 10BL, 20D, 26 & 26D

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# Construction Master Keying Conventional XC Series

Cylinders ordered with construction keying will receive the 21- option Lost Ball feature. With this option, construction keying is obtained without the nuisance of going back to each cylinder and removing the construction split key when the building is turned over. The 21- cylinder is master keyed with small ball bearings in one of the chambers. The 21- plug is drilled in two places on each side of the

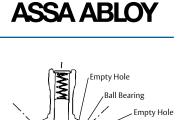
is drilled in two places on each side of the chamber containing the balls. While the building is under construction, the master key to be used, the balls remain in the chamber above the plug.

Voiding the construction master key is accomplished by simply using the Change key, which allow the balls to fall into one of the holes on either side of the chamber. The construction master key will no longer operate the cylinder.

#### **To Void Construction Key**

Orders with 21- will have all change keys shipped separately from hardware.

- 21- is not available with removable core (5100, 6300 or 7300)
- Use 11-72 option for construction keying for 11-7300 cores
- 21- replaces the 22- split key, which is only available as an addition to existing 22- master keyed systems
- Use 11- 64- option cores for XC- removable core cylinders
- #439 Lost Ball Rekeying Kit allows for Field construction of 21- lost ball keying
- #439 kit includes a drilling block, knurled pin, 500 balls and drill with collar



**SARGEN** 

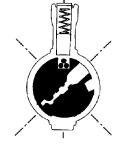
Shown above is a cross section of a 21-Option Lost Ball Cylinder with the Construction Master Key inserted and rotated

The ball bearings lie flat with one positioned behind the other. They are not stacked.

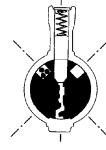
Note: Ball bearings shown are for illustration purposes only. They do not stack, they align next to each other and lay flat.



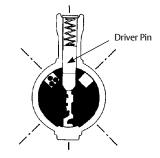
In this view, the Change Key is inserted into the cylinder's plug to void the Construction Master Key. The Change Key raises the three balls above the plug.



As the Change Key is rotated, the three construction balls fall into one of the holes in the plug



The Change Key is then rotated to the vertical position for extraction



If the Construction Master Key is inserted (as shown) after being voided, it will not rotate because Driver pin now extends into the plug chamber. This prevents it from rotating and voids the Construction Master Key.

No. 97 Rosette

#### No. 1KB Rosette



- KB Series Rosette supplied standard with 8200 Mortise Locks and are used with mortise cylinders and No. 90 blocking rings when cylinders project from door
- Optional Collars/Spacers available and ordered separately, refer to product catalogs for additional information
- 1-1/2" (38mm) diameter (includes compression spring)
- Projection from door:

FIUJECTION ITO	III 0001.
1KB-1	5/16" (8mm)
1KB-2	7/16" (11mm)
1KB-3	9/16" (14mm)

#### No. 90 Blocking Ring



- No. 97 Rosette supplied standard with 7900 Mortise Locks, Exit Device with pulls and cylinders ordered separately from hardware
- Optional Collars/Spacers available and ordered separately, refer to product catalogs for additional information
- 1-11/16" diameter (43mm), 9/32" (7mm) projection (includes compression spring)

#### Note:

Parts shown on this page are unique to the XC feature. These plugs and shells cannot be used with non-XC components.

For all other cylinder components, refer to the standard Cylinder & Components section. XC 11- option not available with 10-, 22-, 51-, 52-, 82-, 83-, 84-, SC- or SE- options.

Standard for cylinders ordered

• 1-11/16" diameter (43mm), 9/32" (7mm)

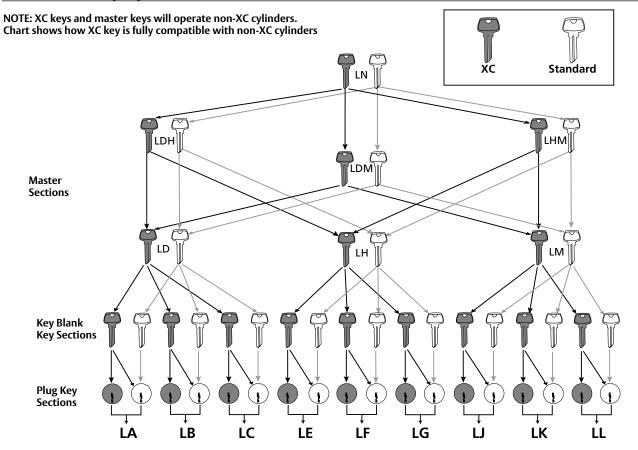
projection (includes compression spring)

separately from hardware

# Key Control Comparison & Key Blanks xC Series

SARGENT ASSA ABLOY

#### XC vs. Standard Keyway Control



LA family shown above (also available in SARGENT R Multiplex family).

#### **SARGENT Key Blanks**

Master Key Section (6 Pin)	Day or Ch	Day or Change Key (6 Pin)	
Catalog Number 11-X6270	Catalog N	Catalog Number 11-X6275	
LD	LA	RA	
LH	LB	RB	
LM	LC	RC	
LDH	LE	RE	
LHM	LF	RF	
LN	LG	RG	
RD	LJ	RJ	
RH	LK	RK	
RM			
RDH			
RDM			
RHM			
RN			

Small Format Interchangeable Core Keyways

Master/Day/Change Key (7 Pin only)
Catalog Number 11-X7285B x keyway
SARGENT 4A
SARGENT 4B (Restricted)*
* Pre approval required by SARGENT key record department

Packed 50 per box

• Order by Catalog Number x Keyway

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# Cylinders & Components XC Series

#### Visual Key Control (Stamping)

To allow for easier key and cylinder identification, SARGENT offers the option for permanent stamping of keys and/or cylinder with industry standard alpha-numeric keyset symbols.

Non-visual key control stamped change (day) keys include bitting numbers as standard, (Item A) unless specified in keying order lead sheet submitted with order requesting to be omitted and key set substituted.

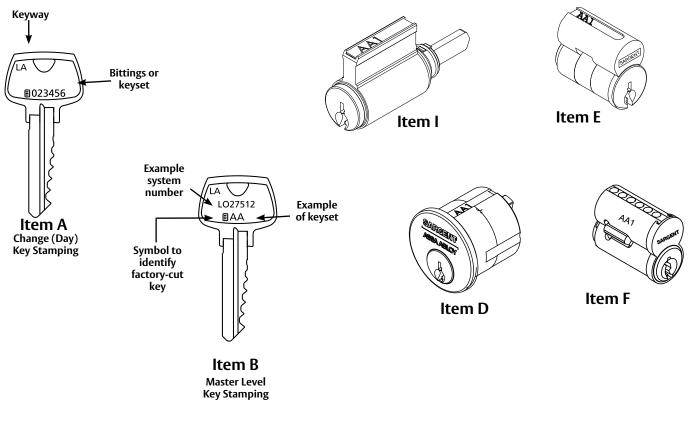
SFIC and Signature change keys are stamped with key set symbols as standard.

Master level keys <u>do not</u> include bitting numbers. Master level keys <u>include</u> system register numbers stamped on the first line, and the standard visual key control designations on the second line (Item B).

#### Up to 7 characters available for permanent stamping for Visual Key Control

- Key and cylinder identified by industry standard alpha-numeric keyset symbols
- Concealed stamping on mortise and rim cylinders and bored lock cylinders available on the slide only (Item D or I )
- Cylinder-slide stamping available on 5100 and 6300 SARGENT LFIC (removable) cores, bored lock, mortise/rim cylinders (Item E, ID)
- Core side engraving available for 7300B Series up to 7 characters (Item F)
- Special key stampings available, such as "DO NOT DUPLICATE" or "CITY OF PHOENIX"
- XC and Signature cylinders not available with visual plug stamping
- XC and Signature cylinders available with only concealed slide stamping (Item D, E and I) only
- Signature LFIC 10-6300 available with cylinder slide stamping (Item E)

**Note:** SARGENT will stamp alternate identity codes on cylinders and/or keys whenever requested. This alternate stamping can not be different if both are to be stamped. Master Level Keys can also be stamped with a single alternate code



#### **Tamper Proof Packaging**

For the highest level of security for the end user, Tamper Proof Packaging is used on all Master Keys, Signature key blanks and all restricted key blanks. This heat sealed shrink wrap identified with "SARGENT Sealed For Your Security" provides assurance of the integrity of the factory generated key system. A. Acceptable Manufacturer and Series (No Substitutions):

B. Provide patented cylinders and LFIC cores that require

a patented key which are protected from unauthorized

Architectural Specifications

manufacture and distribution.

H. Deliver all permanent key blanks and other security keys direct to Owner's representative from SARGENT Manufacturing via secure courier, return receipt requested. Failure to properly comply with these requirements may be cause to require replacement of all or any part of the cylinders and keys involved as deemed necessary at no additional cost to the Owner.

#### 2.1 Cylinders, Key, and Keying

C.	Provide cylinders and keys protected from unauthorized
	manufacture and distribution by manufacturer's United States patents.

B. Provide 7-pin small format interchangeable core (SFIC) cylinders.

A. Acceptable Manufacturer and Series (No Substitutions):

- D. The key design and tolerances shall permit the cutting of keys with standard code or duplicating machines. The requirement for a single-purpose or keyway-specific cutting or duplicating machine shall not be allowed.
- E. The key design and tolerances shall permit the use of keys and cylinders in existing key systems having similar keyways and sections.
- Provide 6 masterkeys for each masterkey set. Provide 2 change keys for each lock. Provide 2 control keys for core removal. Stamp keys F. "DO NOT DUPLICATE".
- G. Key blanks shall only be shipped to end-user locations upon written documentation from authorized purchasing personnel and for specified number of keys only.
- H. Submit proposed keying schedule to Architect. If requested, meet with Owner and Architect to review schedule.
- Deliver all permanent key blanks and other security keys direct to Owner's representative from SARGENT Manufacturing via secure courier, return I. receipt requested. Failure to properly comply with these requirements may be cause to require replacement of all or any part of the cylinders and keys involved as deemed necessary at no additional cost to the Owner.

#### How to Order

Options are used to identify optional features which are added or part of a SARGENT product.

XC Cylinders are available by specifying 11- prior to the product description. Mortise example: 11-8226 LNL x 32D and 10 Line example: 11-10G05 LL x 32D, etc.

XC- Cylinders are also available as Bump Resistant by specifying BR-11-. Mortise example: BR-11-8237 LNL x 32D and 10 Line example: BR-11-10G05 LL x 32D. etc.

If other options are being ordered, list options in numerical order: 11-73-7P-10G05, 11-21-8226 x 32D, etc.

#### Manufacturer Series SARGENT XC

The key design and tolerances shall permit the cutting of keys with standard code or duplicating machines. The requirement for a C. single-purpose or keyway-specific cutting or duplicating machine shall not be allowed.

2.0 Cylinders, Key, and Keying – Standard Cylinders and 6300 Large Format Interchangeable Core (Removable)

- D. The key design and tolerances shall permit the use of keys and cylinders in existing key systems having similar keyways and sections.
- E. Provide 6 masterkeys for each masterkey set. Provide 2 change keys for each lock. Stamp keys "DO NOT DUPLICATE".
- Key blanks shall only be shipped to end-user locations upon written documentation from authorized purchasing personnel and for F. specified number of keys only.
- G. Submit proposed keying schedule to Architect. If requested, meet with Owner and Architect to review schedule.

g – 7300 Small Format Interchangeable Core	

Manufacturer	Series
SARGENT	XC



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SARGENT Manufacturing Company 100 Sargent Drive New Haven, CT 06511 USA 800-727-5477 www.sargentlock.com ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

Founded in the early 1800s, SARGENT\* is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets.

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# 436-1 TOP LOADING TOOL KIT

# ASSA ABLOY

SARGENT

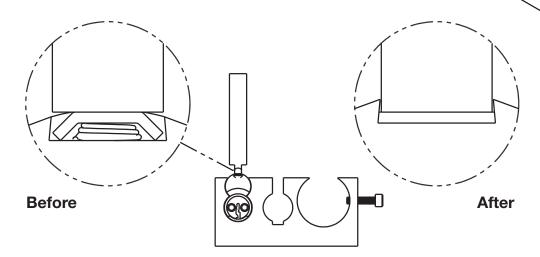
FOR ASSISTANCE CONTACT SARGENT AT 800-727-5477 or www.sargentlock.com

The 436-1 kit is used to install new slides in top loaded cylinders. This kit can be used on (10-) 6300 cores manufactured after March 2006. (See below) and bored/mortise/rim cylinders made after May 2008 that include "oo" mark the back of the cylinder(see details below)

For 6300s removable core cylinders determine your bottom and master pins by using instruction sheet A6409 attached.

Use SARGENT pin kits 437C or 437S in conjunction with 437 RC/UL kit and top load each chamber accordingly.

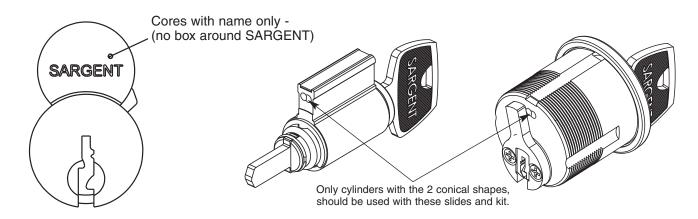
**Note:** When pinning 6300 cores chambers 3 and 4 require the use of hollow driver pins and springs found in kit 437RC/UL.



Locate slide over all springs and depress down with slight pressure using tool.

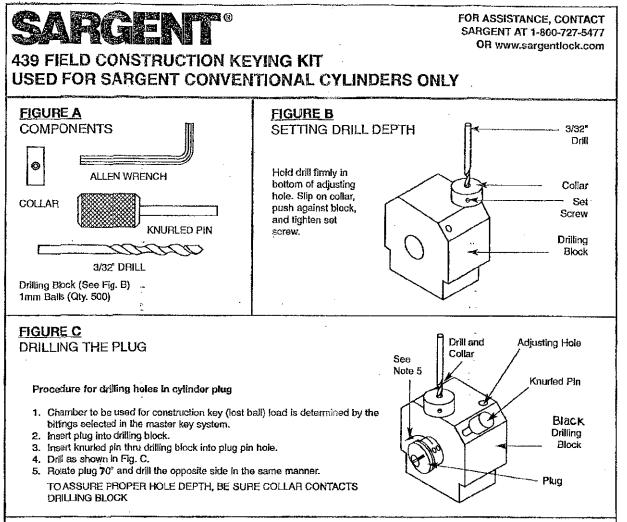
Gently tap tool to secure slide in to dovetail slot as shown above.

When re-pinning existing keyed cylinders, remove old slide with a sharpened flat tool and discard.



Only 6300 cylinders without the box around SARGENT and Bored/Mortise/Rim cylinders with the 2 conical shape marking can be used with this kit.

To reorder slides for the 6300 cores, 6 pin 40 series mortise, Bored and Rim use p/n 13-1341. For 7 pin mortise and rim cylinder use p/n 13-1797 (ordered separately).



#### INSTRUCTIONS FOR FIELD KEYING OF LOST BALL CONSTRUCTION MASTER KEYING: Creating a New Field Generated Master Key System Using the Lost Ball Feature

- The lost ball feature can only be used in chambers 2 through 5. For XC cylinders use chambers 3 through 6
- Using the fixture, drill the plug of the cylinder in two places in the location of the chamber selected for the construction feature
- The construction balls (3) should be placed between the bottom pin and master split in the chamber selected for the construction feature
- The chamber to be used for the lost ball feature is determined by the bitting selections in the Master Key System
- The bitting of the Top Master Key (TMK) for the system must always contain a #8 cut between positions 2 through 5 for standard cylinders and 3 through 6 for XC
- The position on the TMK that was chosen for the #8 cut should always be used when generating change key bittings for the construction key system
- Always use the change key to void the construction feature
- The Construction Master Keys (CMK) will have a #10 bitting cut in the same position as the TMK's #8 bitting, all other bittings will be the same as the TMK

#### Introducing the Lost Ball Feature Into an Existing Master Key System

- If the existing master key system's TMK has a #8 cut in its bitting and the #10 cut has not been used for any key in that position, then the lost ball feature can be added to the system
- If the system is a Grand Master level or higher and the master level keys have been selected in this position, the lost ball feature would have to be voided by the master level keys instead of the change keys
- If the key system is existing and the TMK does not have a #8 bitting, contact the SARGENT Key Records department to determine if Construction Keying Mastering is feasible

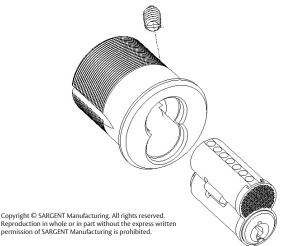


#### Installation Instructions for 11-(70-73-43) Small Format Interchangeable Core Cylinders



FOR ASSISTANCE, CONTACT SARGENT AT 800-727-5477 or www.sargentlock.com

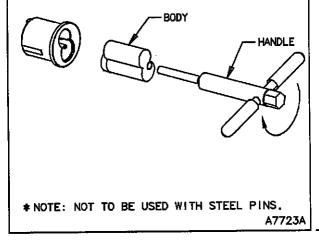
- 1. Install cylinder set screw (#12-24), slotted end first in to cylinder housing.
- Using a 1/8" flat blade screw driver inserted through the "figure 8" opening, screw the set screw in until the pointed end is just below the threads on the outside of the cylinder body.
- 3. Orient the cam upright and install the mortise cylinder housing into the trim/lockset by turning clockwise.
- 4. When mortise cylinder housing is installed into the trim/lockset, tighten the cylinder set screw to fix the mortise cylinder housing in place. Use caution so that the set screw tightens into the mortise lock case and does not fall into lock body. This set screw is used with a mortise cylinder housing to prevent unauthorized removal of the cylinder and lock.



#### INTERCHANGEABLE CORE SHEAR TOOL KIT #431-7

WHEN INSTALLING XC, 11-7P-7300B CORE IN TO ITS EXISTING 70-43 SERIES MORTISE HOUSING:

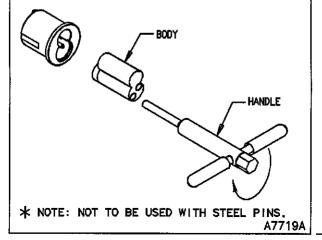
- 1. REMOVE ORIGINAL CORE AND POSITION THE DRIVE PINS ON THE BACK OF THE HOUSING TO THE HORIZONTAL POSITION.
- 2. INSERT THE BODY OF THE SHEAR TOOL SO THAT THE HOLES IN THE BODY ALIGN WITH THE DRIVE PINS. #
- 3. INSERT THE HANDLE ASSEMBLY INTO THE HOLE.
- 4. WHILE PUSHING FIRMLY ON THE SHEAR TOOL TURN THE HANDLE CLOCKWISE.
- 5. REMOVE THE SHEAR TOOL SLOWLY AND DISCARD THE BRASS PIN THAT HAS JUST BEEN SHEARED OFF.
- 6, INSTALL PERMANENT CORE WITH THE CONTROL KEY.



#### REMOVABLE CORE SHEAR TOOL KIT #431-6

WHEN INSTALLING XC,11- 6300 CORE IN TO ITS EXISTING 60-40 SERIES MORTISE HOUSINGS ONLY:

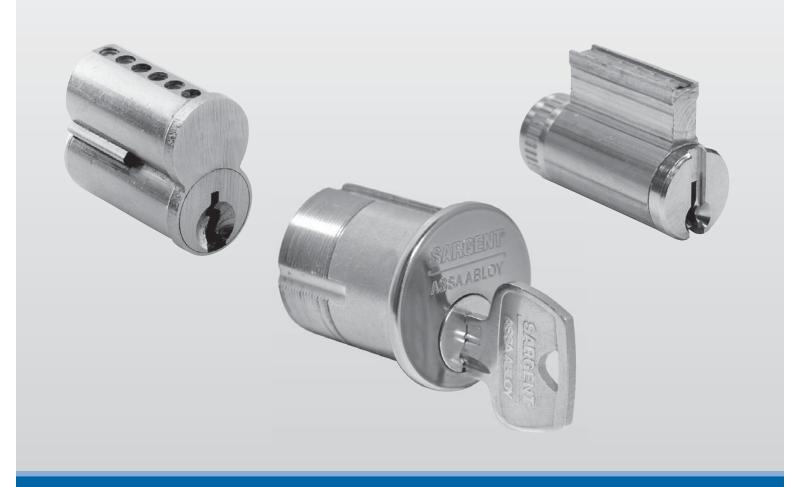
- REMOVE ORIGINAL CORE AND POSITION THE DRIVE PINS ON THE BACK OF THE HOUSING TO THE HORIZONTAL POSITION.
- 2. INSERT THE BODY OF THE SHEAR TOOL SO THAT THE HOLES IN THE BODY ALIGN WITH THE DRIVE PINS. \*
- 3. INSERT THE HANDLE ASSEMBLY INTO THE HOLE.
- 4. WHILE PUSHING FIRMLY ON THE SHEAR TOOL TURN THE HANDLE CLOCKWISE.
- 5. REMOVE THE SHEAR TOOL SLOWLY AND DISCARD THE BRASS PIN THAT HAS JUST BEEN SHEARED OFF.
- 6. REPEAT STEPS 3 THRU 5 FOR THE SECOND PIN HOLE.
- 7. INSERT PERMANENT CORE WITH CONTROL KEY.







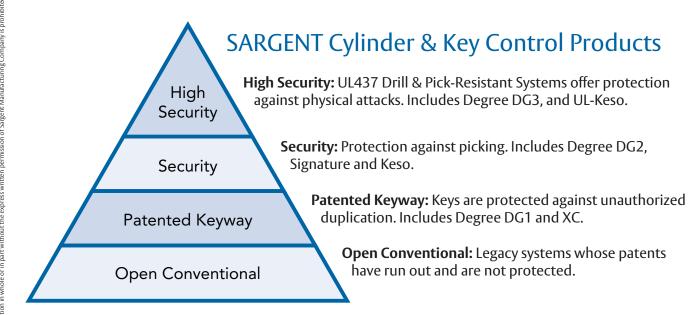
# Cylinders & Components



#### **Cylinders and Components**

# SARGENT ASSA ABLOY

#### **Table of Contents**



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#### On The Cover

#41 Mortise Cylinder

# KeyWizard™ Key Management Software

## **Cylinders and Components**

#### SARGENT'S KeyWizard™ 5.5 Software Package Tracks Multiple Key Systems Including Keys, Keyholders, Locations, and Hardware Information

This comprehensive key management software package was developed for locksmiths and end-users to track detailed information.

The program features easy to navigate, non-cluttered screens and uses a format similar to Microsoft® Outlook™.

#### Features:

- Free Technical Support at 1-800-610-1706 and system upgrades for 1 year
- Website support at www.keywizard.net
- Multi-level passwords and access levels ٠
- Clear, easy to read screens .
- Manages multiple end user key systems
- Customized query, reporting and search capability ٠
- Global searching across multiple key systems
- Comprehensive hardware schedules .
- Keyholder photos and signatures for identity verification
- Scheduled maintenance and reminders for overdue keys and back-ups

#### How to order for new users:

Single License Version — KW-SS1 Network Version — KW-SSN1 Demonstration Version - KW-DEMO1

How to order, if upgrading from KeyMinder\*:

Single License Version — UP-KW-SS1 Network Version - UP-KW-SSN1

\*consult factory for eligibility requirements

#### **Keying Data**

Keying data (key sets and bittings) is available for order with new or existing systems to eliminate the need for manual data entry into Key Wizard. Place order based on size of system.

Accurate key symbol sorting

key deposits

and e-mail

Pinning calculators

Editable field titles

Multi-level key authorizations and

Network and stand-alone versions

Reports options including printing in a variety of formats

Ability to connect to a website and search for any updates

Cylinder and key random serial ID generator

Key authorization forms that can be printed at will

Part Number	Description
DLKW1	1 to 50 bittings
DLKW2	51 to 200 bittings
DLKW3	201 to 1000 bittings
DLKW4	1001-3000 bittings
DLKW5	3001-6000 bittings
DLKW6	6001-9000 bittings
DLKW7	Over 9000 bittings

#### **Computer System Recommendations:**

#### **REQUIRED:**

- 350 MHz processor
- 60 MB hard disk space
- Windows<sup>®</sup> 7, Vista, XP, NT, ME, 2000 or 98
- 64MB Ram
- CD drive

#### **RECOMMENDED For Better Performance:**

- 500 MHz or faster
- 70 MB or more

64MB Ram

Windows® 7, Vista, XP, NT, ME, 2000 or 98

CD drive

#### **BITTING LISTS**

Paper bitting lists provided at no charge for factory corresponding keyed orders when requested at time of hardware order. An owners letter of authorization must be attached to all purchase orders. Existing key system bittings lists are also available contact key records for more information.

ARGEN

ASSA ABLO

# 09/18 90622

# Cylinders for Bored, Auxiliary, Integra Lock and Mail Box Locks



#### Cylinders and Components



For cylinders in competitive keyways, see Page 13.

When double cylinder locksets are keyed alike on both sides, 2 change keys are supplied

Cylinders are supplied random keyed unless specified 1 bitted or master keyed. For master keyed orders provide keying details as requested on SARGENT Keyed Order Lead Sheets, located in the price book or contact customer service.

Cylinders ordered from SARGENT Turbo program are supplied as 1 bitted as standard unless otherwise specified.

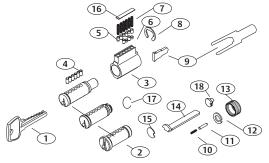
Cylinders BHMA A156.5 Grade 1 listed except hotel functions, C5500 and C7600.

90622 09/

# Cylinder Parts: Bored, Auxiliary and Integra Locks

## **Cylinders and Components**

#### **Hotel Function Not Shown**



ltem	Description	Lock Line	Part Number	Comment
1	6 Pin Key Blank		See Table Page 18	
2	Plug Plug Plug Plug Plug & Pin Assembly Plug & Ring Assembly	7600 470, 480, 1655, 7500 460 5500*, 8X 7, 8, 9* Knobs 6, 7 Lever, 8L*, 10, 11, 6500, 7500, 758, 858	13-0090 13-0874 13-0904 13-0920 13-3425 13-3142	New 7600 Only
3	Shell Only Cylinder Shell & Slide Assembly Without Pins & Springs	7600 7, 8L*, 10, 11 Levers, 758, 858 7, 8*, 9* Knobs 6, 6500 460, 470, 480,1655 5500*, 8X	13-1139 13-3257 13-2048 13-3257 – Effective 9/03 13-3493 13-3514	7600 (No Slide) Illustration Shows Slide Disassembled
4	Bottom Pin	All Cylinders	See Table Page 16	
5	Top Pin	All Cylinders	13-0059	Pin No. 10 (Length .200)
6	Master Pin	All Cylinders	See Table Page 16	
7	Compression Spring	All Cylinders	13-0265	
	Plug Retainer Plug Retainer Ring	5* 7, 8*, 9 Knob Plug manufactured prior to March 2005	01-0870 06-0166	
8	Plug Retainer Ring	6, 7 Lever, 8L*, 10, 11, 6500 and 8 line* knob manufactured after April 2005	13-0205	
	Plug Retainer Ring	5500, 8X	01-0870	
9	60-70 Tail Piece 70 Tail Piece 60 Tail Piece 70 Tail Piece 70 Tail Piece 70 Tail Piece 70 Tail Piece 60 Tail Piece Tail Piece Tail Piece Tail Piece Tail Piece Tail Piece Tail Piece Tail Piece Tail Piece	60-70 6500 70-6500 60-7, 10 70-7, 10 70-7, 10 70-7, 10 70-7, 10 60-11 1 1 7, 81*, 10, 6500 6 (S & N Knobs) 6 (B Knob) 5500 758, 858 8X	05-0033 05-0034 10-0239 10-0240 10-0286 10-0287 11-0171 13-1385 13-0895 13-0907 13-0908 13-0919 13-1230 13-1849	6 Pin Only 7 Pin Only Except 54 Function 6 Pin Except 54 Function 7 Pin Except 54 Function 7 Pin 54 Function 7 Pin 54 Function All Functions Except 50 Function 05, 24, 37, 38-2, 44
10	Cylinder Cap Spring	460, 470, 480, 1655	13-1555 – Effective 6/03 13-0693 – Prior to 6/03	
11	Cylinder Cap Pin	460, 470, 480, 1655	13-1554 – Effective 6/03 13-0691 – Prior to 6/03	
12	Cylinder Tail Washer	464,474,484 464, 465, 485, 486, 487, 1655	13-0882 13-0883	
13	Cylinder Endcap	460,470,485,1655 series	13-0875	
14	Tail Piece	464, 474, 484 465, 485, 487 475, 486	13-0878 13-0880 13-0881	1-3/4" to 2" (44mm to 51mm) Door Thickness
15	Blocking Piece	460, 470, 480, 1655	13-0884	
16	Slide (Mfg prior June 2008)	7 Old*, 7, 8*, 8L*, 9, 10, 11, 6500 7600	13-0779 13-0816	
16	Slide (Mfg after June 2008)	7, 8*, 8X, 9*, 10, 11, 1655, 6500	13-1341**	
17	Tail Piece Retainer	6, 7, 10, 11, 6500	13-0680	
18	Cam Connector	1655	13-1813	

\* Discontinued Product

\*\* See page 13 for Details

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# 40 Series Mortise Cylinders and 34 Series Rim Cylinders

#### **Cylinders and Components**

#### 40 Series Mortise Cylinder

- Cylinder: Solid brass, 1-5/32" (29mm) diameter
- Cap: Brass, bronze or stainless steel
- Furnished standard with No. 97 rosette and compression spring
- Optional Collars/Spacers available and ordered separately, refer to product catalogs for additional information
- See Cam Chart on Page 8 for cam required
- 6 pin standard; for 7 pin specify "7 pin", size 42 minimum
- No. 41 cylinder not available in 7 pin
- Mortise cylinder assemblies that are ordered without hardware are supplied with standard SARGENT offset cam 13-0664
- Cylinder finishes: 3, 4, 9, 10, 10B, 10BE, 10BL, 15, 20D, 32, 32D, BSP
- Plug finishes: 4, 15

Length under cylinder head										
Cylinder No.         41         42         43         44         46         48         50         52         54         56								56		
Dim V	1-1/8"	1-1/4"	1-3/8"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"
Dim. X	(29mm)	(32mm)	(35mm)	(38mm)	(44mm)	(51mm)	(57mm)	(64mm)	(70mm)	(76mm)

#### 50-40 Series Hotel Type Cylinder

#### Features same as standard 40 Series cylinders except:

- For use with 7850, 8250, and 9250 only.
- For 6 pin systems only. Note: emergency key is 7 pin.
- · Contact factory for compatibility requirements for existing 6 pin systems
- Uses only cam #115 (13-2045)
- Guest and Master keys will only retract the latch bolt but not project or retract the dead bolt
- Emergency keys (catalog # 7268 EMK) retract the latchbolt and deadbolt and can also project the deadbolt
  C Series keyways supplied standard, specify if different keyway is required. On 1 bitted or KD, CA key way will be supplied if not otherwise specified
- Consult Sargent Key records dept. when adding Hotel cylinders to existing key systems for compatibility
- Length under cylinder head (Dim. X)
- 50-43 1-3/8" (35mm); 50-44 1-1/2" (38mm)

#### 78-40 Series Exposed Shell Only Cylinders

- Cylinder: Solid brass, 1-5/32" (29mm) diameter
- 6 pin standard, for 7 pin specify "7 pin"
- For use with SARGENT mortise locks with Escutcheon Trim (KE 3/4, LE 3/4) only
- See Function Table on Page 8 for cam required
- 78-41 6 pin; single cylinder function only except 50
- 78-42 6 or 7 pin; single cylinder functions only
- 78-43 6 or 7 pin; all functions except 50
- Plug finishes: 4, 15

prohibited.

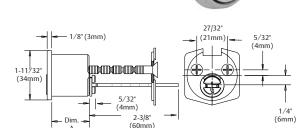
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#### 34 Series Rim Type Cylinder

- 27/32" (21mm) screw pattern for through-bolted SARGENT exit devices
- Cylinder: Solid brass
- Cap: Brass, bronze or stainless steel
- Furnished standard with No. 97 rosette and compression spring, "break-off" screws and back plate
- 6 pin standard, for 7 pin specify "7 pin"
- Horizontal tail piece only
- Cylinder finishes: 3, 4, 9, 10, 10B, 10BE, 10BL, 15, 20D, 32, 32D, BSP
- Plug finishes: 4, 15

No. of Pins	Door Thickness when used with outside trim	Dim. A (Min.)
6	2-3/8" to 3-1/4" (60mm to 82mm)	1-1/16" (27mm)
7	2-1/2" to 3-1/2" (64mm to 89mm)	1-7/32" (31mm)



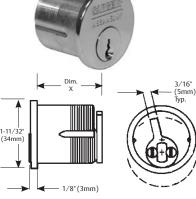
All cylinders are 6 Pin and are supplied with 2 nickel silver keys offered in the keyways listed on Page 16 unless noted otherwise. In cylinders ordered for 5 pin systems the (6th) last chamber will be empty.

When double cylinder locksets are keyed alike on both sides, 2 change keys are supplied.

For cylinders in competitive keyways, see Page 13.

Cylinders are supplied random keyed unless specified 1 bitted or master keyed. For master keyed orders provide keying details as requested on SARGENT Keyed Order Lead Sheets, located in the price book or contact customer service.

Cylinders BHMA A156.5 Grade 1 listed except hotel functions.



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# Cylinder Parts: Mortise and Rim Cylinders

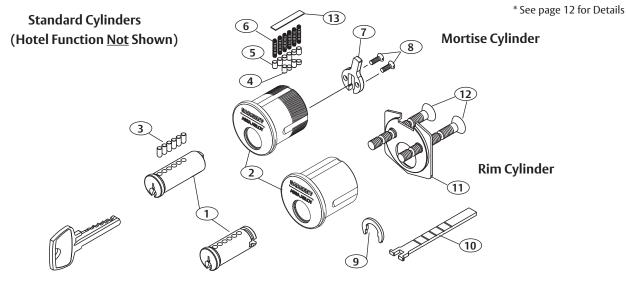




#### 34 Rim/40 Series Mortise Cylinder Parts

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ltem	Description	Part Number	Where Used	Comment
1	Plug	See Table Below	40 Mortise & 34 Rim	
2	Cylinder Shell, Cap & Slide Assy.	See Table Below	40 Mortise & 34 Rim	Illustration Shows Slide Disassembled
3	Bottom Pin	See Table Page 15	40 Mortise & 34 Rim	
4	Master Pin	13-0062	40 Mortise & 34 Rim	Pin No. 10 (Length .260)
5	Top Pin	See Table Page 15	40 Mortise & 34 Rim	
6	Compression Spring	13-0265	40 Mortise & 34 Rim	
7	Cam	See Table Page 8	40 Mortise	
8	Screw	01-1121	40 Mortise	#3-48 x 5/16" (8mm) PH. FL.
9	Plug Retainer	13-0080	34 Rim	
10	Tail Piece	13-0085	34 Rim	
11	Cylinder Back Plate	13-0086	34 Rim	
12	Connecting Screws Standard Connecting Screws	13-0075 13-0074	34 Rim 34 Rim	#12-24 x 2-5/8" (67mm) #12-24 x 2-1/8" (54mm)
13	6 Pin Slide 7 Pin Slide	13-0779 13-0780	40 Mortise & 34 Rim 40 Mortise & 34 Rim	Mfg prior to 06-2008* Mfg prior to 06-2008*
13	6 Pin Slide 7 Pin Slide	13-1341 13-1797 v	40 Mortise & 34 Rim 40 Mortise & 34 Rim	Mfg after 06-2008* Mfg after 06-2008*



No.	Cylinder Length		6 Pin Plug Part Number	7 Pin Plug Part Number	6 Pin Shell & Slide Assy. Part Number	7 Pin Shell & Slide Assy. Part Number
34	_		13-0090	13-0587	13-2005	13-2712
41	1-1/8" (29	mm)	13-0401	N/A	13-2005	N/A
42	1-1/4" (32	mm)	13-0402	13-0402	13-2006	13-2765
43	1-3/8" (35	mm)	13-0403	13-0403	13-2766	13-2766
44	1-1/2" (38	mm)	13-0404	13-0404	13-2767	13-2767
46	1-3/4" (44	mm)	13-0405	13-0405	13-2768	13-2768
48	2" (51	mm)	13-0406	13-0406	13-2769	13-2769
50	2-1/4" (57	mm)	13-0407	13-0407	13-2770	13-2770
52	2-1/2" (64	mm)	13-0408	13-0408	13-2771	13-2771
54	2-3/4" (70	mm)	13-0409	13-0409	13-2772	13-2772
56	3" (76	mm)	13-0474	13-0474	13-2773	13-2773

1

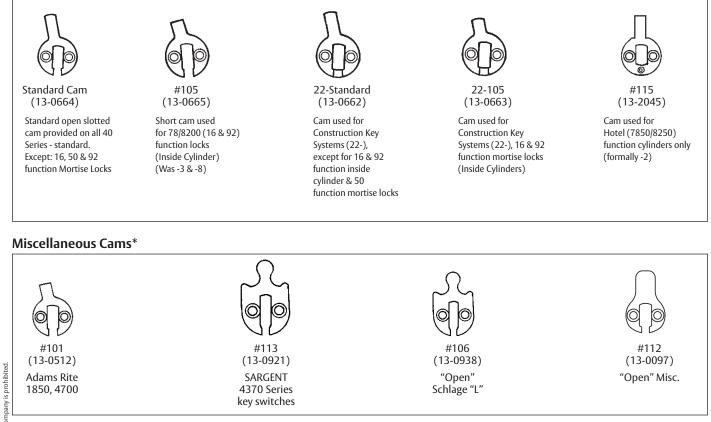
# Cams for Mortise Cylinder

#### Cylinders and Components

# SARGENT

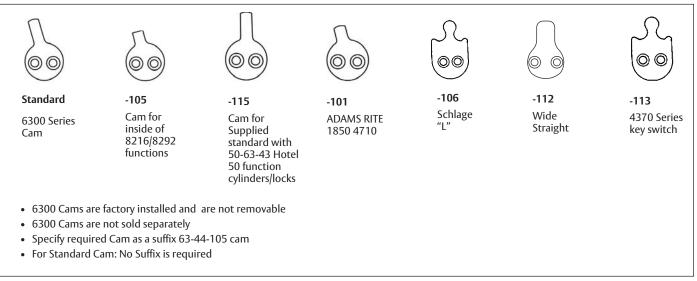


#### **Cams For Conventional Mortise Cylinders\* in SARGENT Keyways**



\* Two screws attach cam to cylinder, order as an 01-1121, when needed

# Cams for 6300 Large Format Interchangeable (Removable) Core Mortise Cylinders (Factory assembled to housing)



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# Installation Tools for 6300 and 7300 Cylinders

# **Cylinders and Components**



432 RC 6300 Large Format Interchangeable (Removable) Core Installation Tool 432 IC 7300 Small Format Interchangeable Core Installation Tool





- The 432 RC and 432 IC are tools to assist in installing SARGENT Large Format Interchangeable (Removable) Core and Small Format Interchangeable Core Mortise Housings. These tools make it easy to thread a cylinder body into a Mortise lock and can also help check the cylinder function in a lock before installing the cylinder core
- Order: 432 RC for the SARGENT Large Format Interchangeable (Removable) Core Installation Tool
- Order: 432 IC for the Small Format Interchangeable Core Install Tool



# 6300 Series Large Format Interchangeable (Removable) Cores

# **Cylinders and Components**

#### 60- Prefix Disposable Plastic Core



 During the construction phase in non restricted areas, disposable plastic cores can be used, eliminating use and distribution of the actual keys

- Once construction is near completion, the permanent keyed cores will be installed and the building secured; permanent keyed cores are ordered separately as 6300 Cores
- Disposable cores are available for Mortise, • Exits and most cylindrical lock sets
- Operate with coin or flat screw driver
- One piece design allows for easy • installation
- To order separately: Use p/n 13-5177
- Mortise Sizes available: 60-42, 60-43, 60-44 & 60-46
- Available 6300 Mortise Cams on Pg 6
- Specify required Cam as a suffix: 60-44-105 cam
- For Standard Cam: No Suffix is required

#### 64- Prefix Construction Keyed Large Format Interchangeable (Removable) Core Keyed Cvlinders

- The SARGENT 6400 interchangeable brass construction core enables doors to be locked during project construction period
- Using 6400 cores prevents keys for the permanent key system from becoming available during the construction process
- After construction is completed, the 6400 brass cores are removed and replaced with 6300 keyed-permanent interchangeable Cores
- A special control key releases the locking sleeve of the cylinder core allowing immediate removal of the core
- Construction cores are all keyed alike in one KA keyset
- Furnished with 6 keys and 1 control as standard
- Plug face dimpled for easy identification
- Order as a 64- prefix with products
- Mortise Sizes available: 64-42, 64-43, 64-44 and 64-46
- Available 6300 Mortise Cams on Page 8
- Specify required Cam as a suffix: 64-44-105 cam
- For Standard Cam: No Suffix is required • For keyed temp core sold separately use catalog # 6400

#### 6300 Permanent Large Format Interchangeable 63-34 Rim Cylinder (Removable) Cores Cylinders

- SARGENT LFIC (Removable) Core Cylinders and Master Key Systems are available for a quick change of cylinders for increased security. It is not necessary to remove the lock from a door to rekey the opening
- Special "control" key is used to release a locking cam allowing immediate removal of the core
- Available for use in many SARGENT products (Exit Devices, Mortise locks, Bored locks and padlocks)
- LFIC Key Systems can also include conventional cylinders operated by the same Master/change keys when the 6300 quick change feature is not needed
  - Can be master or grandmaster keyed
- 2 Change keys provided 6 pin standard
- 1 bitted available for field keying
- 1 bitted cylinders supplied with 2 key blanks, pins and springs in chambers in 3 and 4 only
- HA keyway will be supplied unless otherwise specified
- Wide variety of master key systems available
- Permanent (keyed Large Format Interchangeable) cores supplied with hardware unless specified otherwise
- Available in the following SARGENT keyway families: A, B, C, G, H, K, Ľ, N, R, and V
- Also available in the following single key sections: CR and S
- Control key is 6272 CTL, ordered separately •
- Finishes: 4, 15
- . Ordering as a: 6300 LFIC Core x finish and give all keying information

#### 65-6300 Unassembled Core Only

- Unassembled core for field rekeying. Includes Control Sleeve and two key blanks
- Springs and pins to be ordered separately (see Pages 16 & 17)
- 65- Prefix Uncombinate Cores
- Finishes: 4, 15
- HA key way will be supplied standard, unless otherwise specified
- Order as: 65-6300 x finish x keyway (6 pin only)

#### 6300 Series Parts Only

- 13-0795 Plug, Finishes: 4, 15
- 13-3424 Inner Shell & Slide Assy, Finishes: 4, 15
- **Control Sleeve** 13-0796
- Plug retaining ring 01-0660 13-0797
- Slide for Cylinders with a box around the word SARGENT (Mfg prior to 4/06)
- Slide for Cylinders WITHOUT a 13-1341 box around the word SARGENT (Mfg after 3/06)
- For pins, springs & keying kits see Pages 16 & 17

- Housing: Solid brass
- Cap: Brass, bronze or stainless steel
- Furnished standard with No. 97 rosette and compression ring Includes the same tailpiece and screw

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- hole pattern as the #34 cylinder
- 32,32D,BSP
- Order as: 63-34 x Finish
- Also available: 60-34 & 64-34 Rim Cylinders

#### 63-40 Series Mortise Cylinders Standard & Hotel Function Cylinders



- Cylinder: Solid brass
- 1-5/32" diameter Cap: Brass, bronze
- and stainless steel
- Furnished standard with No. 97 rosette and
- compression ring Optional Collars/Spacers available
- and ordered separately, refer to product catalogs for additional information
- HA Standard Keyway (Except Hotel)
- For use in Sargent 78/8250s hotel function only, "C" series keyway supplied standard, unless otherwise specified. Offered in 50-63-43 size only (1-3/8") with 115 cam only
- Hotel emergency key is 7269 EMK, ordered separately
- Order hotel cylinders as 50-63-43 or 50-60-43 which will include the 115 cam as standard
- Other SARGENT keyways available
- Mortise Sizes available: 63-42, 63-43, 63-44 & 63-46
- Available 6300 Mortise Cams on Pg 6
- Specify required Cam as a suffix: 63-44-105 cam
- For Standard Cam: No Suffix is required • Finishes: 3,4,9,15,10,10B,10BE,10BL,20D,
- 32,32D,BSP
- Order as: 63-42 x Finish
- 60-42 same as above, but supplied with plastic disposable plastic core

#### 63-40 Series Mortise Cylinder Sizes

Cylinder #	63-42	63-43	63-44	63-46
Length	1-1/4" (32mm)	1-3/8" (35mm)	1-1/2" (38mm)	1-3/4" (44mm)

#### 436-1 Slide Block Kit

- Includes fixture and staking tool for use only with the (10)- 6300 Series Cylinders manufactured after March 2006 for the ease of top loading in the field
- The kit includes 100 each slides p/n 13-1341, Staking Block and staking tool
- Cylinders manufactured after March 2006 will not include the box around the SARGENT logo and can be used with this kit



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- - Finishes: 3,4,9,15,10,10B,10BE,10BL,20D,

# 7300B Small Format Interchangeable Cores

# **Cylinders and Components**

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#### 73- & 73-7P Series Small Format Interchangeable Core Cylinders 6 & 7 Pin

- SARGENT Interchangeable Core Cylinders and Master Key Systems are available for a quick change of cylinders for increased security. It is not necessary to remove the lock from the door to rekey the opening
- SARGENT 7300B Interchangeable Cores are available in SARGENT 4A and 4B keyways as well as the following standard competitor keyways: A, B, C, D, E, F, G, H, J, K, L, M. SARGENT will extend any key system after receipt of an existing bitting list from the end user
- New key systems are available in either 4A or 4B keyways. 4A in a 2 step system will be supplied standard on new systems
- A2 or A4 systems available

For hardware to be supplied with keyed cores use 73- prefix for 6 pin cores and 73-7P for 7 pin permanent cores provided

## 7300B Keyed Interchangeable Core

- Supplied keyed with two nickel silver change keys as standard
- Face includes SARGENT logo
- If Control keys are required order as 6282BCTL for 6 pin systems or 7282BCTL for 7 pin systems
  - 6 pin system master keys are ordered as 6282BMK
  - 7 pin system master keys are ordered as 7282BMK
- Finishes: 4, 15
- Order separately as: 7300B x Finish (for 6 pin) 7P-7300B x Finish (for 7 pin)

#### 65-7300B Uncombinated Interchangeable Cores

- Cores for field keying
- No pins, springs or key blanks provided
- No logo on face
- 65- Prefix uncombinated Cores
- Finishes: 4, 15
  Order as: 65-7300B x Finish (for 6 pin) 65-7P-7300B x Finish (for 7 pin)



## 70- Prefix Disposable Plastic Construction Core For SFIC

- Used for doors that do not require key locking during the construction period
- Operate with coin or flat screw driver
- Mortise and rim cylinders accepts either 6 or 7 pin permanent cores. Cylindrical lock sets ships with plastic core and 6 pin tail piece installed while the 7 pin tail piece is packed loose with the lock set
- One piece design allows for easy installation
- Only available with standard cams
- To order separately use p/n 13-5176



#### 72- Prefix Brass Interchangeable Construction Core

- SARGENT 7200 Interchangeable
   6 pin brass construction core (order 72-prefix with your SARGENT products) enables doors to be locked during the project construction period. Hardware prepared to accept 6 or 7 pin cores installed at job completion
- Using 7200 cores prevents keys for the permanent key system from becoming available during the construction process
- After construction is completed, the 7200 brass cores are removed and replaced with 7300 keyedpermanent interchangeable cores. Mortise and rim cylinders accept either 6 or 7 pin permanent cores. Key in lever locks ship with 6 pin tail installed and 7 pin tail piece shipped loose for use with 7 pin cores
- Plug face is blue for easy identification
- A special Construction Control key 6254 B CTL releases the locking sleeve of the construction core and allows for immediate removal of the core
- Construction cores are 6 pin and keyed alike construction master 6282 B CMK
- Six (6) change keys and one (1) Control key is included
- Cores shipped with hardware
- Only available with standard cams
- For keyed temp core sold separately use catalog # 7200

#### Key Blanks/Cut Master Type Keys (Nickel Silver)

- 6 pin key blank order as 6285B x keyway
- 7 pin key blank order as 7285 B x keyway
- Packed 50 per box
- SARGENT Keyways: 4A, Restricted 4B Competitors: A, B, C, D, E, F, G, H, J, K, L, M
- Cut 6 pin master key, order as cat #6282BMK
- Cut 7 pin master key, order as cat. # 7282BMK Cut 6 pin control key order as cat. # 6282BCTL Cut 7 pin control key order as cat.

# 7282BCTL

# 73-34 Rim Cylinder

- Brass cylinder and housing
- Furnished with No. 97 rosette, break off screws and back plate
- Optional Collars/Spacers available and ordered separately, refer to product catalogs for additional information
- Housing accepts 6 or 7 pin core
- Mounting holes located to match SARGENT hardware
- Finishes: 3, 4, 26, 26D



# 73-43 or 73-46 Series Mortise Cylinders

- Two cylinder sizes
- #43, 1-3/8" (35mm) length under cylinder head including cam 73-43 (6 pin) 73-7P-43 (7 pin), 70-43 housing less core
- #46, 1-3/4" (44mm) length under cylinder head including cam 73-46 (6 pin), 73-7P-46 (7 pin) 70-46 housing less core
- 1-5/32" (29mm) diameter housing
- Furnished with No. 97 cylinder rosette as standard
- Optional Collars/Spacers available and ordered separately, refer to product catalogs for additional information
- Cam is permanently staked to housing
- Housing accepts 6 or 7 pin cores
- Only available with SARGENT off set cam
- Hotel Function not available
- Finishes: 3, 4, 9, 10, 10BE, 10BL, 20D, 26, 26D, BSP

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# Old Style Removable Cores Mortise/Rim Cylinders

## **Cylinders and Components**

#### 51- Prefix Old Style Removable Core Cylinder



- Special "control" key is used to release a locking cam to allow immediate removal of the core
- Available for use only in SARGENT products, such as exit devices or mortise locks, which use rim or mortise cylinders
- SARGENT Offset Cams only
- Available for existing systems only
- Can be master or grandmaster keyed
- Note: If ordering for existing construction key system, provide all keying information.
- Consult factory for existing system compatibility
- Plug finishes: 4, 15
- Finishes: 3, 4, 9, 10, 10B, 10BE, 20D, 32, 32D, BSP

## 52- Prefix Old Core Style Construction Removable

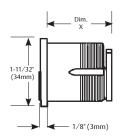
- A separate order for permanent cores, with keysets keying information, door and item numbers, should accompany the lockset order. <u>The permanent</u> <u>cores will be shipped directly to the</u> <u>distributor and not to the job site</u>.
- All locks ordered with removable construction core cylinders will be invoiced at the regular price established for 51- prefix
- A separate invoice will be issued to cover the permanent cores at prices listed for removable cores
- Plastic disposable cores not available

## Removable Core Cylinders

Mortise Type		Length under cylinder head including cam				
Series	No. Pins	1-1/8" (29mm)	1-1/4" (32mm)	1-3/8" (35mm)	1-1/2" (38mm)	1-3/4" (44mm)
140 Cylinder	7	N/A	142	143	144	146
Core Only	7	N/A	5142	5143	5144	5146

#### Rim Type

Series	No. Pins	Maximum overall length			
134	7	3-3/4" (95mm)			
Furnished standard with No. 97 rosette, "break off" screws and back plat					



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## Rim Type "Core Only"

	-
	No. Pins
5134	7

Note: These cylinders use the last chamber for the control sleeve. Standard keys contain a cut in this position to engage the control function.

To order mortise housing, order as:

13-2052 x finish (1-1/4")

13-2053 x finish (1-3/8") 13-2054 x finish (1-1/2")

13-2055 x finish (1-3/4")

Note dimensions are are with core/cam installed.

Note: Cams are attached to the core and not ordered with housings.

For rim housing only order as 13-2057 x finish.

Back plate 13-0086 and screws 13-0074 are to be ordered separately.

#### How to Order

Mortise	Add 52- prefix to removable core cylinder number (Example: 52-142) Not available for functions 50 and 52				
Rim Type	Add 52- prefix to removable core cylinder number (Example: 52-134)				
To order removable cores only for mortise and rim type cylinders, add 52- prefix to core designation (Example: 52-5142 or 52-5134)					

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# Competitive Keyway Cylinders, Bump Resistant Cylinders, Kits and Top Loading Kits

# **Cylinders and Components**

#### **Conventional Mortise and Rim Cylinders**

SARGENT offers cylinders in other manufacturers' keyways. They can be ordered as a prefix for hardware or ordered separately by part numbers. The following product lines are available with SC- and SE- prefixes:

- #41 Mortise Cylinder applications only
  - 7800/8200 Mortise Locks
  - **KP8200 Keypad Operated Product**
  - 4870 Deadlock
  - 20, 30, 80 and 90 Series Exit Devices
- #34 Rim Cylinder applications
  - KP8877 Keypad Operated Products
  - 8877 Profile Series Access Control Products
  - 20, 30, 80 and 90 Series Exit Devices
- All cylinders 0 bitted and supplied with two brass key blanks as standard. Hotel function not available
- Mortise and rim cylinders supplied without SARGENT logo on face of cylinder and with No. 97 rosette when ordered without hardware
- Optional Collars/Spacers available and ordered separately, refer to • product catalogs for additional information
- Mortise cylinders only supplied with SARGENT offset cam similar to • 13-0664. Rim cylinders only with SARGENT mounting screw locations. Separate parts not available for these cylinders
- Master keyed cylinders not available
- All mortise cylinders 1-1/8" (29mm) long with standard 1-5/32" shell diameter
- Finishes: 3, 4, 10, 10B, 10BE, 32, 32D, BSP

	Keyway		
Cylinder Type	Schlage "C"	Schlage "E"	
Mortise #41	SC-41	SE-41	
Rim #34	SC- 34	SE-34	

#### How to Order

Part number x SC or SE #34 or 41 x Schlage keyway type Example: SC-41 x Finish

#### **Conventional Bored/Cylindrical Lock Cylinders**

The following cylinders can be ordered in competitor's keyways.

- All cylinders 0 bitted and supplied with two brass key blanks as standard. Hotel function not available.
- Cylinders include tail pieces
- Finishes: 4, 15

	Keyway		
Lock Line	Schlage "C"	Schlage "E"	
7, 10, T-Zone (11) & 6500	SC-C10-1	SE-C10-1	
470/480 Deadlock	SC-C480-1	SE-480-1	

#### How to Order

Part number x SC or SE x finish Schlage keyway type Example: 13-3614 x SE x 26 Schlage E keyway

#### SARGENT Bump Resistant Cylinders

These cylinders employ specially engineered patent pending components designed to resist bumping while maintaining the cylinder's strength.

#### Bump resistant cylinders offer these features:

- Added line of defense against intruders
- Prevents unauthorized entry

#### The bump resistant feature is available for the following conventional cylinders (6 and 7 pin only):

- Mortise Cylinders: Conventional and XC (11-)
- **Rim Cylinders:** Conventional and XC (11-)
- Bored Cylinders: Conventional and XC (11-)

Specify bump resistance by adding BR Prefix.

Not available with 63- or 73- cylinder options

How to order example: BR-10G04 LL 26D

#### 437BR Bump Resistant **Re-Pinning Kit**

The 437BR Kit is used to convert existing cylinders into bump resistant cylinders. Simply replace the drivers and springs in all chambers. Each kit includes 300 pins for use in mortise/rim

cylinders, 300 pins for use in KIK/KIL cylinders and 600 springs.

#### 436-1 Top Loading Tool Kit

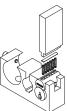
Top loading feature for conventional cylinders and LFIC simplifies the repinning process. The dovetail cut at the top of the cylinder body allows the slide to be "peeled" off easily, without removing the barrel from the cylinder. These conventional cylinders can be easily identified with the "figure eight" marking on the back of the cylinder body (Shown).

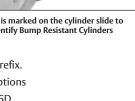
436-1 Kit is used for top loading of Large Format Interchangeable (Removable) Cores or Conventional Cylinders

#### This Kit includes the following components:

- Staking Block
- Staking Tool
- 100 Slides (6 Pin)

Addition Slides Available: 7 Pin slides (Part#13-1797) 6 Pin slides (Part#13-1341) ordered separately













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# 124 Mortise Turn Lever Cylinders Rosettes and Blocking Rings

## **Cylinders and Components**



- Used in mortise locks in lieu of cylinders when keyed cylinders are not required
  Furnished standard with No. 97 cylinder
- running standard with No. 97 cylinde rosette when ordered separately
- Optional Collars/Spacers available and ordered separately, refer to product catalogs for additional information
- Cylinder: Brass
- Turn lever: Brass or bronze Cap: Brass, bronze, stainless steel
- Finishes: 4, 10B, 10BE, 32D, BSP
  - B, 10BE, 32D, BSP

### No. 1KB Rosette



- Used with 8200 Series mortise locks and No. 90 blocking rings when cylinders project from door
- Free spinning to protect cylinder from vandalism
- Consult 8200 series catalog for Rosette application details
- Furnished standard with 8200 LN and L rose design mortise trim
- Cast brass, bronze or stainless steel
- 1-1/2" (38mm) diameter, includes compression spring
- Projection from door: 1KB-1 5/16" (8mm) 1KB-2 7/16" (11mm) 1KB-3 9/16" (14mm) 1KB-4 11/16" (16mm)
- Finishes: 3, 4, 10, 10B, 10BE, 10BL, 20D, 26, 26D, 32, 32D, BSP

## Cylinder Nut Wrench



This wrench simplifies the installation and removal of mortise cylinders nuts used on 700 Series Auxiliary Control (80 Series ET Trim).

• Part number 97-0568

No. 97 Rosette

No.

None

-101 -105

-106

-112

-113

Length Including

Cam (Dim. x)

Cam No. Suffix



124-41

Description

124-42

Sizes 41, 42, 43, 44 & 46 for standard offset SARGENT cam Sizes 41, 42, 43, 44 & 46 x cam for Adams Rite 1850 lock

Sizes 41, 42, 43, 44 & 46 x cam for 4370 Series Keyswitches

Sizes 41, 42, 43, 44 & 46 x cam for Open Schlage L

Sizes 41, 42, 43, 44 & 46 x cam for Open Misc.

Sizes 41, 42, 43, 44 & 46 x cam for inside of 16 and 92 mortise lock

1-1/8" (29mm) 1-1/4" (32mm)

spring
Finishes: 3, 4, 10, 10B, 10BE, 10BL, 20D, 32, 32D, BSP

## No. 1SB Cylinder Collar



- Standard for 7800 BHD, 8200 BHL & BHW mortise locks
- Stainless steel
- 1-29/32" diameter
- Projection from door:

1SB-1	5/16" (8mm)				
1SB-2	7/16" (11mm)				
1SB-3	9/16" (14mm)				
1SB-4	11/16" (16mm)				
Finishes: 32, 32D					

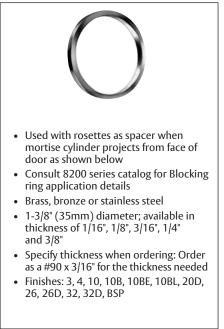
Note: Hardware ordered less cylinder will be provided with the standard collar and/or blocking rings for the standard 1-1/8" mortise cylinders

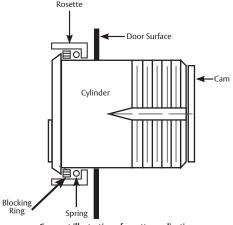
When using cylinders that are longer consult individual catalogs to order proper size collars and/or spacers.

## No. 90 Blocking Ring

124-43

1-3/8" (35mm)





Crosscut illustration of rosette application



124-44

1-1/2" (38mm)

124-46

1-3/4" (44mm)

# Construction Master Keying Lost Ball, Split Key Construction Keying Kit (Lost Ball)



## **Cylinders and Components**

#### 21- Prefix Lost Ball Construction Keying

Cylinders ordered in SARGENT keyways with construction keying will include the 21- prefix Lost Ball feature as standard. This replaces the 22- split key, only available as additions to existing 22- mastered keyed systems. The 21is not available with old or new style removable/interchangeable core (5100 & 6300s). If construction keying is required for removable/interchangeable cores, use 52- or 64- construction keyed cores.

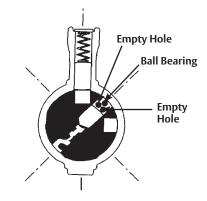
With the lost ball option, construction keying is obtained easily without going back to each cylinder and removing the construction split key when the building gets turned over.

With this feature, the 21- cylinder is master keyed with small ball bearings in one of the chambers. The plug is drilled in two places along both sides of the same chamber containing the balls. This allows the construction master key to be used, while leaving these balls in the chamber above the plug when the key is rotated. When it is time to void the construction key, by simply using the change (day) key these balls will fall into the holes in the plug. The construction master key will now no longer operate the lock.

Field construction (21- lost ball) keying can also be easily accomplished with the # 439 LOST BALL REKEYING KIT. The kit includes a drilling block, knurled pin, 500 balls and drill with collar.

Orders with 21- will have all change keys shipped separately from hardware. New key systems provided with six construction master keys unless otherwise specified.

Additions to orders to existing systems are not provided with construction masters unless ordered separately.



Cutaway cylinder showing construction master key being used. The ball bearings lie flat with one positioned behind the other. They are not stacked.

#### **To Void Construction Key**

**Note:** Ball bearings shown are for illustration purposes only. They do not stack, they align next to each other and lay flat.



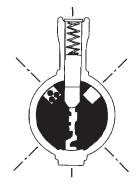
Change key inserted in cylinder



As change key rotates, construction balls fall into hole in the side of plug



Change key rotated to position for extraction



Construction key inserted after balls are trapped. Driver now extends into plug chamber. Construction key will not rotate

#### 22- Prefix Split Key Construction Keying

The 22- prefix for split-key construction keying is available only for **existing systems**. When construction is completed, each cylinder must have the construction split key removed with extractor tool part number 14-0070 (one supplied per order). Orders with 22- prefix will have all change keys shipped separately from hardware. Not available with XC or Signature cylinders, non-SARGENT keyways or with cylinders used in other manufacturers' locks. Construction Master Keys part number 14-0069 must be ordered separately.

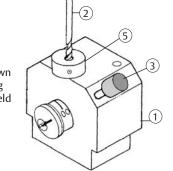
#### 439 Construction Keying Kit (Lost Ball)

This kit is designed to allow field construction master keying of SARGENT conventional, Signature and XC cylinders.

#### Each kit includes:

- 1. Drilling block
- 2. Drill bit
- 3. Knurled pin
- 4. Hex key (not shown)
- 5. Collar & Set screw Assy.
- 6. 500 each balls, P/N 13-1103 (not shown)



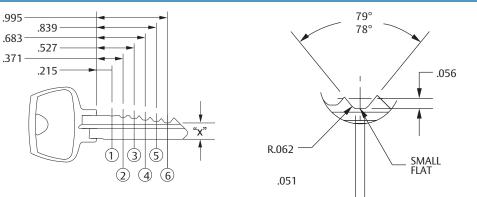


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# Bitting Dimensions, Pins and Springs

**Cylinders and Components** 





6 PIN POSITIONS Shown, depth and spacing are the same for 5 & 7 pin

Depth tolerance	Cut#	1	2	3	4	5	6	7	8	9	10
$\pm$ .002", spacing tolerance $\pm$ .001"	Х	.330	.310	.290	.270	.250	.230	.210	.190	.170	.150

Above bitting dimensions are for SARGENT cylinders in the following keyway families: A, B, C, G, H, K, L, N, R, V Note: Maximum Adjacent Cut Specification (MACS) = 7

#### Springs

13-0265 used in all cylinders except 3rd & 4th position of 6300 and 10-6300 cores for factory pinned cores prior to January 2009 13-0487 used in 3rd & 4th position of 6300, 10-6300 cores for field rekeying for factory keyed cores prior to January 2009 13-1769 spring used in all chambers and with standard master pins as drivers of master keyed 6300, 10-6300 & 11-6300 cylinders since January 2009 Cylinders that use 13-0265 will be used with hollow drivers in the 3rd and 4th chamber when a #2 split is used since January 2015

#### **Brass Pins for SARGENT Keyways**

Bottom Pins	Length	Master/Driver Pins	Length
SIZE #1 13-0064	.170	SIZE #2 13-0051	.040
SIZE #2 13-0065	.190	SIZE #3 13-0052	.060
SIZE #3 13-0066	.210	SIZE #4 13-0053	.080
SIZE #4 13-0067	.230	SIZE #5 13-0054	.100
SIZE #5 13-0068	.250	SIZE #6 13-0055	.120
SIZE #6 13-0069	.270	SIZE #7 13-0056	.140
SIZE #7 13-0070	.290	SIZE #8 13-0057	.160
SIZE #8 13-0071	.310	SIZE #9 13-0058	.180
SIZE #9 13-0072	.330	SIZE #10 13-0059	.200
SIZE #10 13-0073	.350	SIZE #11 13-0060	.220
		SIZE #12 13-0061	.240
		SIZE #13 13-0062	.260
All pins .115 diameter		SIZE #14 13-0063	.280

#### 10-34 & 10-40 Signature Pins

Hardened stainless steel bottom pins used only in the 1st chamber of 10-UL 40 Series mortise cylinders & 10-UL 34 Series rim cylinders.						
SIZE #1	13-1210	SIZE #6	13-1215			
SIZE #2	13-1211	SIZE #7	13-1216			
SIZE #3	13-1212	SIZE #8	13-1217			
SIZE #4	13-1213	SIZE #9	13-1218			
SIZE #5	13-1214					
Stainless spool driver 13-1223 used in all position 10-UL 40 Series and 10-UL 34 Series cylinders.						

# 6300 & 10-6300 Large Format Interchangeable (Removable) Core Hollo

#### **Pins Supplied with Keying Kits**

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	4370	[4375

Hellow Ten Ding	437C/437S		437RC	
Hollow Top Pins	Size #	Bottom Pins	Naster/Driver Pins	Hollow Top Pins
Different top pins are used only	1	13-0064		used in factory keyed cylinders
in the 3rd and 4th positions of 6300,	2	13-0065	13-0051	prior to January 09
10-6300 of factory keyed LFIC (Removable) Cores. All other chambers use standard top pins.	3	13-0066	13-0052	13-1229
	4	13-0067	13-0053	13-1234
	5	13-0068	13-0054	13-1235
	6	13-0069	13-0055	13-1236
SIZE #3 13-1229 SIZE #8 13-1238	7	13-0070	13-0056	13-1237
SIZE #4 13-1234 SIZE #9 13-1239	8	13-0071	13-0057	13-1238
	9	13-0072	13-0058	13-1239
SIZE #5 13-1235 SIZE #10 13-1240	10	13-0073	13-0059	13-1240
SIZE #6 13-1236 SIZE #11 13-1761	11		13-0060	
SIZE #7 13-1237	12		13-0061	
	13		13-0062	
	14		13-0063	

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# Conventional, Signature and LFIC (Removable) Core Keying Kits and Depth Key Sets

# SARGENT

## **Cylinders and Components**

#### 437C Conventional Keying Kit

Includes the brass pins, springs and tools needed to rekey SARGENT conventional, XC cylinders (Except SFIC) and interchangeable cores master keyed after January 2009. This heavy duty steel kit prevents pins from mixing. The kit includes 100 each of top springs 13-0265,100 each 13-1769 springs used with standard drivers in the (10-) 6300 cores and 100 each of bottom and master/driver pins used in the following multi-family keyways: LA, RA, HA, CA, AA, BA, GA, KA, NA and VA.

Note: When re-pinning SARGENT 6300 Large Format Interchangeable (Removable) Core cylinders made before January 2009 they contained special hollow drivers, the 437RC/UL supplemental pinning kit is required

Tools included with kit are:

- Tweezers, 13-0498
- Bitting Gauge #435
- Loading Thimble ("Plug Holder" LT2)
- Loading Rod for 6, 8, 10, 11, mortise & rim cylinders, 13-1034
- Loading Rod for 480, 470, 460 and 6300 Cores, 13-1035
- Loading Rod Blades 13-1138 and 13-1037
- See Table on Page 15 for pins included

When pins are sold separately, they are packaged in easy to see and use foil & plastic packages in quantities of 100 per size.

#### 437S Signature Keying Kit

Used to service SARGENT Signature cylinders. Includes all of the same components as the 437C plus:

- 100 Blocking Bar Springs, 13-0986
- 10 each Blocking Bars, 13-1109
- 1 each Field Service Tool, 13-3916

Note: When repining 10-6300 Signature Large Format Interchangeable (Removable) Core cylinders made before January 2009 they contained special hollow drivers, the 437RC/UL supplemental pinning kit is required

#### 437 RC Large Format Interchangeable (Removable) Core Keying Kit

Use with the 437C or 437S kit. Includes additional pins to repin SARGENT 6300 and 10-6300 Large Format Interchangeable (Removable) Core cylinders that have been pinned using the hollow drivers.

The kit includes special hollow top driver pins and springs which were used in the 3rd and 4th chambers of master keyed cores prior to January 2009.

These pins are in the same increments as standard pins.

Each kit includes:

- 100 each hollow top pin springs, 13-0487
- 50 each cylinder retainers, 01-0660
- 50 each (hollow top pins). See Table on Page 15

#### 437BR Bump Resistant Re-Pinning Kit

The 437BR Kit to convert existing cylinders to bump resistant cylinders. Order as a 437BR Kit (See page 13 for additional information)

#### **Depth Key Sets**

Used for manual code key cutting. Each set includes 10 each SARGENT unwarded 6 pin keys. Each different key is cut with all the same bittings from 0 through 9. Order as "Depthkeys".

#### **Cylinder Spray Lubricant**

3.0 oz aerosol pin number 18-0070 Cylinder Spray Cleaner/Deicer 3.0 OZ aerosol pin number 18-0435



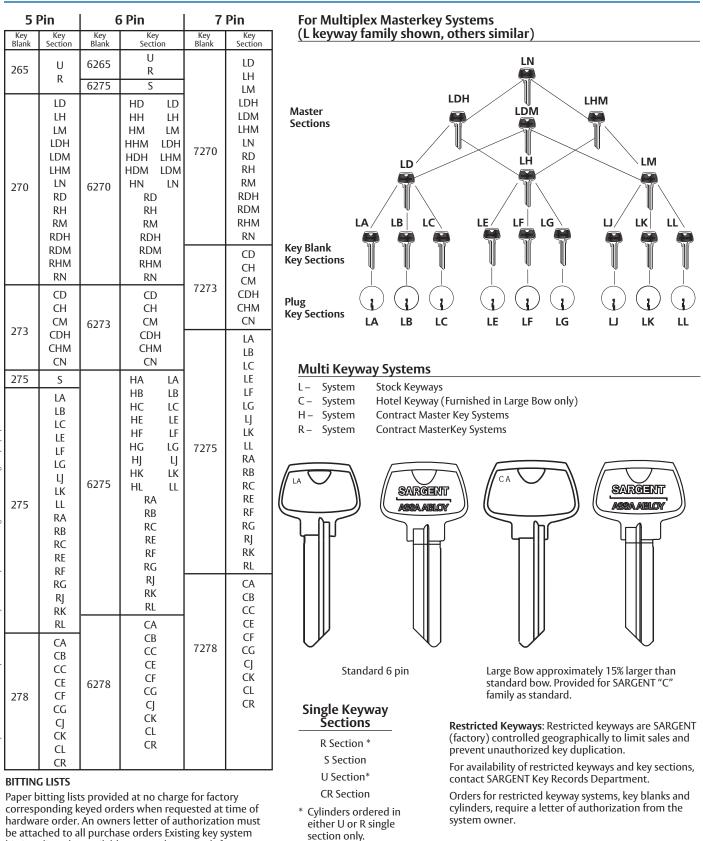




# Key Blanks/Key Sections, Bitting Lists

# SARGENT ASSA ABLOY

## Cylinders and Components



Offered as 1 bitted for

field keying

8 1-800-727-5477 • www.sargentlock.com

bittings lists also available contact key records for more

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information.

# Visual Key Control and Tamper Proof Packaging

# **Cylinders and Components**

#### Visual Key Control (Stamping)

To allow for easier key and cylinder identification, SARGENT offers the option for permanent stamping of keys and/or cylinder with industry standard alpha-numeric keyset symbols.

Non-visual key control stamped change (day) keys include bitting numbers as standard, (Item A) unless specified in keying order lead sheet submitted with order requesting to be omitted and key set substituted.

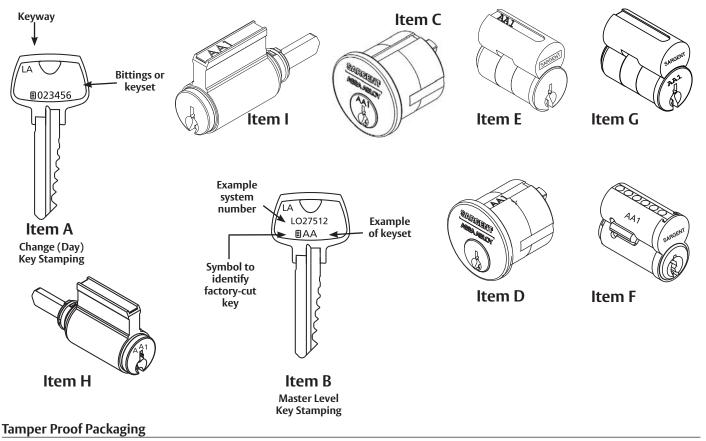
Degree, SFIC and Signature change keys are stamped with key set symbols as standard.

Master level keys do not include bitting numbers. Master level keys include system register numbers stamped on the first line, and the standard visual key control designations on the second line (Item B).

#### Up to 7 characters available for permanent stamping for Visual Key Control

- Key and cylinder identified by industry standard alpha-numeric keyset symbols
- Easy visual identification on the face of the plug (Item C or Item G or H) not available with XC, Signature or SFIC cylinders
- Concealed stamping on mortise and rim cylinders and bored lock cylinders available on the slide only (Item D or I )
- Cylinder-slide stamping available on 5100 and 6300 SARGENT Large Format Interchangeable (Removable) Cores, bored lock, mortise/rim cylinders (Item D, E & I)
- Core side engraving available for 7300B Series up to 7 characters (Item F)
- Special key stampings available, such as "DO NOT DUPLICATE" or "CITY OF PHOENIX"
- Degree, XC, and Signature cylinders <u>not</u> available with visual plug stamping
- Degree, XC, and Signature cylinders available with only concealed slide stamping (Item D, E and I) only
- Degree, XC, and Signature Large Format Interchangeable (Removable) Cores 10-6300 available with cylinder slide stamping (Item E, ID)

**Note:** SARGENT will stamp alternate identity codes on cylinders and/or keys whenever requested. This alternate stamping can not be different if both are to be stamped. Master Level Keys can also be stamped with a single alternate code



For the highest level of security for the end user, Tamper Proof Packaging is used on all Master Keys, Signature key blanks and all restricted key blanks. This heat sealed shrink wrap identified with "SARGENT Sealed For Your Security" provides assurance of the integrity of the factory generated key system.

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# Master Keying and Cylinder Terms

# **Cylinders and Components**



SARGENT requires all orders containing Master Keying details to be submitted using the industry standard D.H.I. ANSI/BHMA format. Key Symbols used on a master keyed order require combinations of letters and/or letters and numbers.

For complete details on proper structuring format of key symbols refer to:

D.H.I. Handbook Section 8 Finish Hardware KEYING SYSTEMS AND NOMENCLATURE or, ANSI/BHMA Standard A156.28, AMERICAN NATIONAL STANDARDS FOR KEYING SYSTEMS.

Or contact SARGENT for assistance.

#### **Basic Keying Terms**

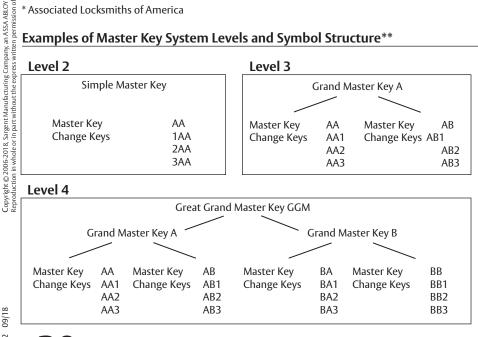
Keys and terms	Abbreviation	Definition	
Change key	СК	Individual lock key	
Masterkey	МК	Operates any given quantity of cylinders with different key changes	
Grand Masterkey	GMK	Operates all individual locks already operated by masterkey(s)	
Great Grand Masterkey	GGMK	Operates all locks under the various masterkey(s) and grand master key(s) already established	
Emergency Key	EMK	Operates hotel locks having shut out feature which blocks entry by all other keys	
Construction key	СМК	Operates all cylinders designated for a temporary period during construction	
Control Key	CTL	Key to install or remove interchangeable or removable cores	
Keyway	KWY	Broaching in a cylinder plug	
Key section	KWY	Sidewarding on key to match broaching in plug	
Single keyed	SKD	Cylinders operated by their change key only; not operated by any master key	

### **Cylinder Terms**

ALOA* adopted terms	Alternate terms
Shell	Cylinder body, Cylinder shell
Plug	Barrel, Cylinder barrel
Tail Piece	Connecting bar
Bottom Pins	Key pin, Ball end pins
Master Pins	Splits, Chips
Top Pins	Drivers
Change Key	Day key
Key Cut	Bit

\* Associated Locksmiths of America

## Examples of Master Key System Levels and Symbol Structure\*\*



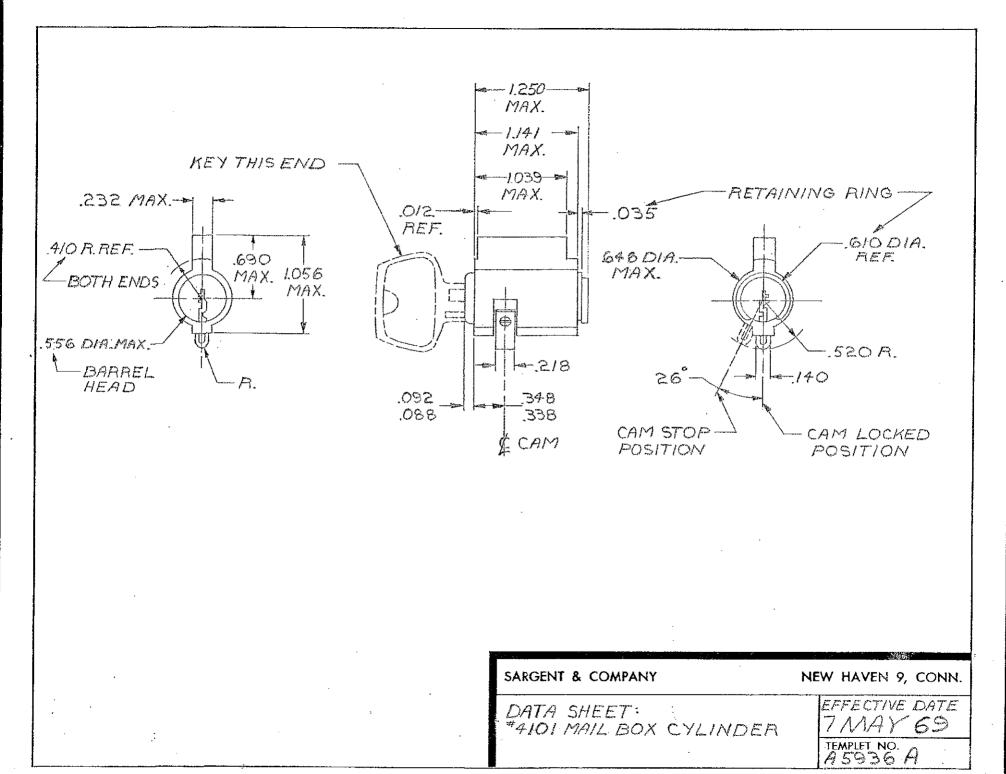
\*\* Master key system levels greater than Level 4 are not recommended. Contact SARGENT Key Records for additional information

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SARGENT Manufacturing Company 100 Sargent Drive New Haven, CT 06511 USA 800-727-5477 www.sargentlock.com ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

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# 436-1 TOP LOADING TOOL KIT

# ASSA ABLOY

SARGENT

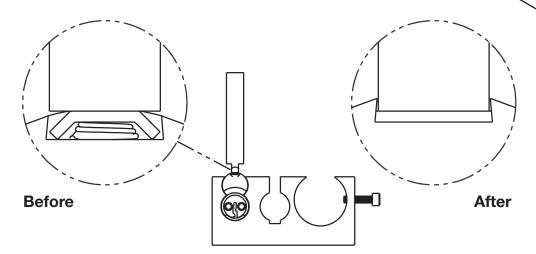
FOR ASSISTANCE CONTACT SARGENT AT 800-727-5477 or www.sargentlock.com

The 436-1 kit is used to install new slides in top loaded cylinders. This kit can be used on (10-) 6300 cores manufactured after March 2006. (See below) and bored/mortise/rim cylinders made after May 2008 that include "oo" mark the back of the cylinder(see details below)

For 6300s removable core cylinders determine your bottom and master pins by using instruction sheet A6409 attached.

Use SARGENT pin kits 437C or 437S in conjunction with 437 RC/UL kit and top load each chamber accordingly.

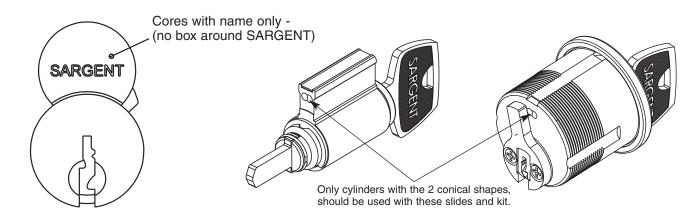
**Note:** When pinning 6300 cores chambers 3 and 4 require the use of hollow driver pins and springs found in kit 437RC/UL.



Locate slide over all springs and depress down with slight pressure using tool.

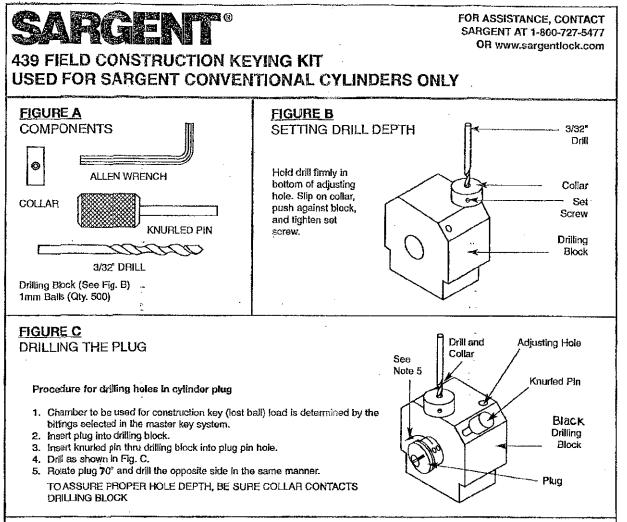
Gently tap tool to secure slide in to dovetail slot as shown above.

When re-pinning existing keyed cylinders, remove old slide with a sharpened flat tool and discard.



Only 6300 cylinders without the box around SARGENT and Bored/Mortise/Rim cylinders with the 2 conical shape marking can be used with this kit.

To reorder slides for the 6300 cores, 6 pin 40 series mortise, Bored and Rim use p/n 13-1341. For 7 pin mortise and rim cylinder use p/n 13-1797 (ordered separately).

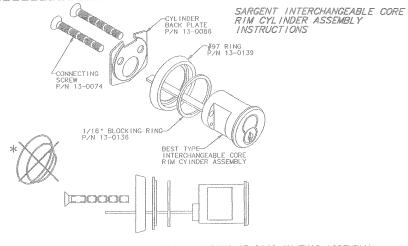


#### INSTRUCTIONS FOR FIELD KEYING OF LOST BALL CONSTRUCTION MASTER KEYING: Creating a New Field Generated Master Key System Using the Lost Ball Feature

- The lost ball feature can only be used in chambers 2 through 5. For XC cylinders use chambers 3 through 6
- Using the fixture, drill the plug of the cylinder in two places in the location of the chamber selected for the construction feature
- The construction balls (3) should be placed between the bottom pin and master split in the chamber selected for the construction feature
- The chamber to be used for the lost ball feature is determined by the bitting selections in the Master Key System
- The bitting of the Top Master Key (TMK) for the system must always contain a #8 cut between positions 2 through 5 for standard cylinders and 3 through 6 for XC
- The position on the TMK that was chosen for the #8 cut should always be used when generating change key bittings for the construction key system
- · Always use the change key to void the construction feature
- The Construction Master Keys (CMK) will have a #10 bitting cut in the same position as the TMK's #8 bitting, all other bittings will be the same as the TMK

#### Introducing the Lost Ball Feature Into an Existing Master Key System

- If the existing master key system's TMK has a #8 cut in its bitting and the #10 cut has not been used for any key in that position, then the lost ball feature can be added to the system
- If the system is a Grand Master level or higher and the master level keys have been selected in this position, the lost ball feature would have to be voided by the master level keys instead of the change keys
- If the key system is existing and the TMK does not have a #8 bitting, contact the SARGENT Key Records department to determine if Construction Keying Mastering is feasible

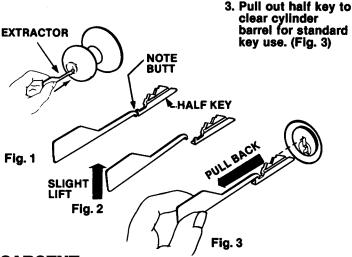


\* NOTE: DO NOT INSTALL COMPRESSION SPRING 13-0140 IN THIS ASSEMBLY.

# INSTRUCTIONS FOR CHANGING FROM CONSTRUCTION KEY SYSTEM TO STANDARD KEY OPERATION

For installation assistance call SARGENT at 1-800-727-5477 • www.sargentlock.com

- 1. Insert and slide extractor into LOWER PART of key slot until stopped by half key. (Fig. 1)
- 2. Raise extractor slightly and hook over end of half key. (Fig. 2)







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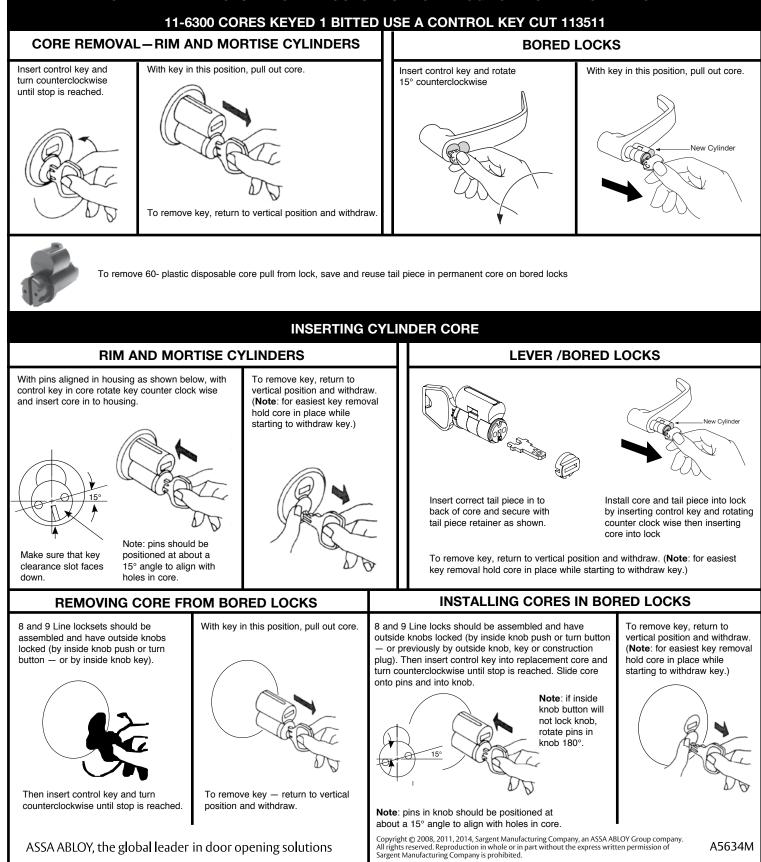
# INSTRUCTIONS FOR THE REMOVAL AND INSERTION OF SARGENT CONSTRUCTION CORES, 11-6300 and DG-6300 REMOVABLE CORE CYLINDERS



ASSA ABLOY

For assistance, contact SARGENT at 800-727-5477 or www.sargentlock.com

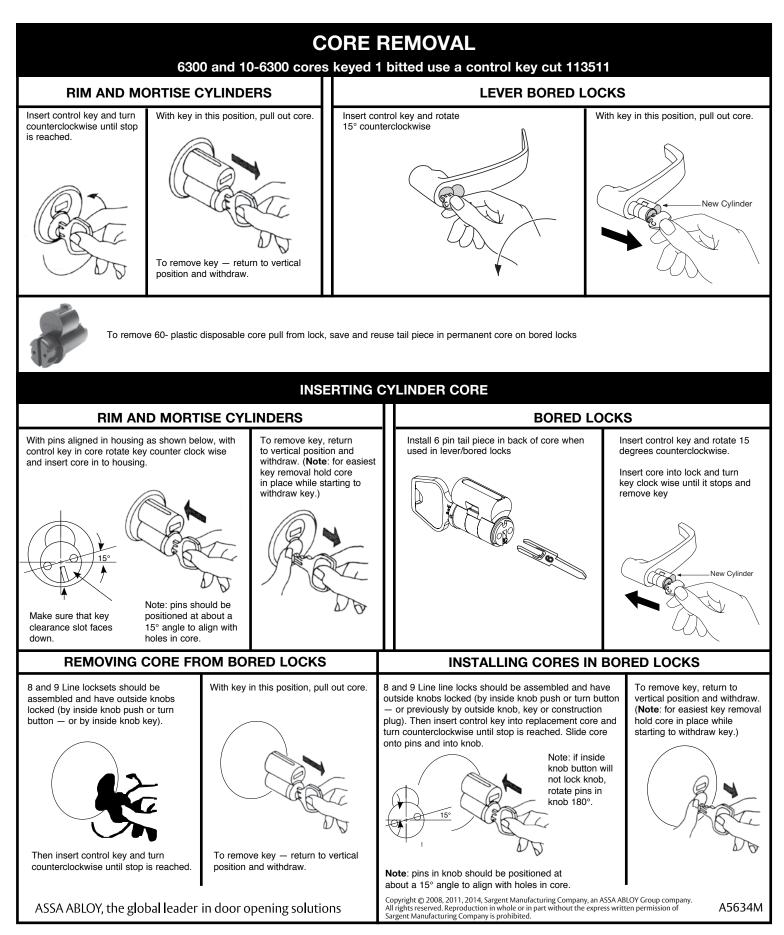
THE 11-6300 AND DG1-2-OR 3- 6300 CORES ARE ONLY COMPATIBLE WITH HARDWARE ORDERED TO ACCEPT THEM, EXISTING HARDWARE MAY REQUIRE TO BE MODIFIED OR REQUIRE THE USE OF NEW TAIL PIECES IN BORED LOCKS — SEE CATALOG FOR MORE INFORMATION



# INSTRUCTIONS FOR THE REMOVAL AND INSERTION OF SARGENT 6300 and 10-6300 REMOVABLE CORE CYLINDERS

For assistance, contact SARGENT at 800-727-5477 or www.sargentlock.com





# SARGENT® INSTALLATION INSTRUCTIONS FOR Trans LEVER LOCK with 50 FUNCTION (11G50) CYLINDER

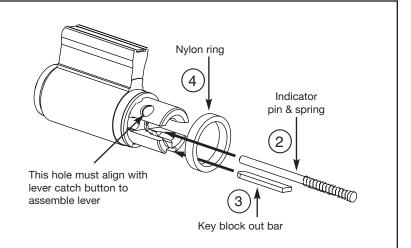
FOR INSTALLATION ASSISTANCE, CONTACT SARGENT AT 800-727-5477

# Lock Body Assembly

- 1. Prep door and install lock body and roses according to T-Zone Installation Instructions A7469, steps 1 through 7.
- 2. Assemble cylinder and levers according to following steps.

# 2 Cylinder Assembly

- 1. Insert parts into cylinder body as shown in illustration.
- Slide spring onto indicator pin. Then insert pin into rear of cylinder body.
- 3. Insert key block-out bar, round end first, into cylinder.
- 4. Slide nylon ring onto back of cylinder.
- 5. TO PREVENT PARTS FROM SLIDING OUT OF CYLINDER BODY, KEEP BODY HORIZONTAL OR END POINTED UP.

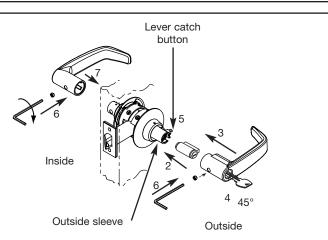


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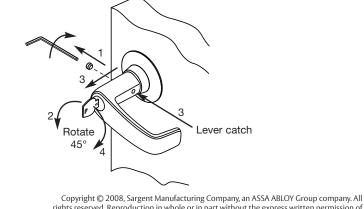
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# 3 Lever Installation

- 1. Place cylinder with assembled parts into outside lever.
- 2. Put key into cylinder. Making sure the key block out bar is still within the cylinder, but in the projected position.
- Gently assemble the cylinder and lever onto the outside sleeve. Align the spring in the center and two metal projections at 12 & 6 o'clock with back of cylinder.
- 4. Push cylinder onto outside sleeve and rotate the key **counterclockwise** 45° and hold.
- 5. Push lever onto lock until lever catch button engages hole in lever. Secure with 6 lobe security set screw.



IMPORTANT – Check operation of levers and latch bolt before closing door



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## **Cylinder Removal**

- 1. Remove security screw.
- 2. Insert key and rotate key 45° counterclockwise.
- 3. Depress lever catch button and pull lever out approximately 1/4" to clear lever catch.
- Rotate key 45° clockwise to horizontal and remove key, gently removing lever from sleeve.
- 5. Remove cylinder from lever being careful not to drop indicator pin or key block-out bar.
- 6. Install new cylinder.