

TECHNICAL BULLETIN

PATIO SYSTEMS

Bulletin No. 04-13

To: Therma-Tru Sales, Technical Services, Customer Relations Representatives
and Quality Team Members
From: Patio System Product Team
Date: Wednesday, September 29, 2004
Subject: Multi-Point Lock Rekeying Information

This technical bulletin is being issued to address rekeying multi-point lock cylinders in the field.

Each multi-point hardware kit contains information concerning rekeying multi-point locks with the exception of page 2 of this document entitled, "CES Pins vs. Schlage Pins Conversion Chart".

Enclosed for your reference is information concerning the rekeying of cylinders, cylinder installation instructions and the CES Pins vs. Schlage Pins Conversion Chart.

Please note that HOPPE gauge uses CES pin lengths. If using Schlage pins, the number will be (1) less. Example: #5 CES pin is a #4 Schlage pin. See page 2 for additional details.

In addition, please note that all full cartons of handle sets are keyed alike from the factory.

Please contact your customer service representative or technical service team with any questions regarding this bulletin at 800-537-8827.

CES Pins VS. Schlage Pins Conversion Chart

It is possible to use either Schlage bottom (core) pins or CES bottom (core) pins when rekeying the Schlage "C" keyway cylinders, however, the pin lengths vary slightly between sources. The conversion chart below lists the correlation between CES and Schlage pin numbers and sizes.

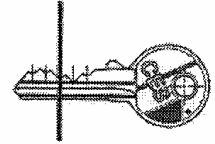
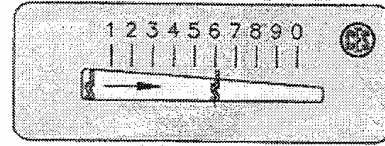
Note: HOPPE gauge uses CES pin lengths. If using Schlage pins, the number will be (1) less. Example: #5 CES pin is a #4 Schlage pin.

CES Pins		
<u>Pin Length</u> (mm)	<u>Pin Number</u>	<u>Pin Length</u> (inches)
4.20	1	0.1654
4.57	2	0.1799
4.95	3	0.1949
5.35	4	0.2106
5.72	5	0.2252
6.10	6	0.2402
6.47	7	0.2547
6.85	8	0.2697
7.25	9	0.2854
7.62	0	0.3000

Schlage Pins	
<u>Pin Number</u>	<u>Pin Length</u> (inches)
0	0.1655
1	0.1805
2	0.1955
3	0.2105
4	0.2255
5	0.2405
6	0.2555
7	0.2705
8	0.2855
9	0.3005

Rekeying of Cylinders

1. Remove the plastic insert located on the bottom of the cylinder.
Tap out all pins and springs.
2. Determine pin size with keying gauge



3. Assemble as follows:

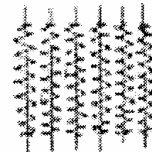
- 1st. Core pins (B) – (See Step 2)
- 2nd. Housing and diabol pins (C)
Alternating between plain & dumbbell shaped pins
- 3rd. Springs (D)
- 4th. Plastic Insert (E) – snap in
Plastic insert to finish rekeying

(E)



Plastic Insert

(D)



Springs

(C)



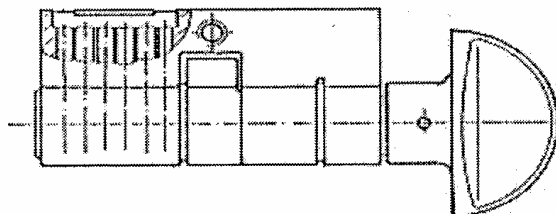
Housing (Top)

(B)



Pins

Note: CES Cylinders are only keyed to 5-pin cylinders – innermost hole is left blank.

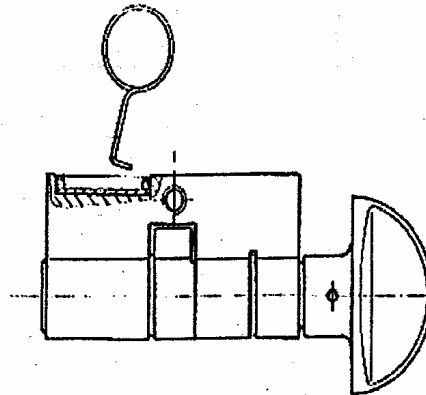


Rekeying of Cylinders

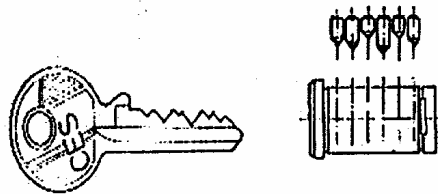
Key blanks at the store:

Schlage (SC1) or Weiser depending upon original order

1. Remove the plastic inserts and all pins and springs.

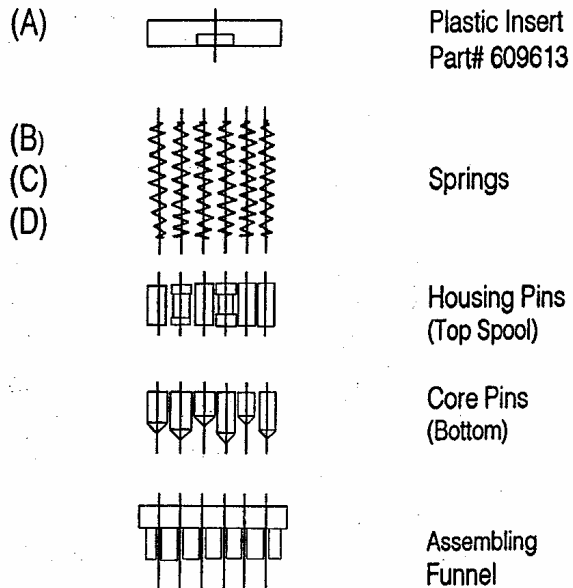


2. Prepare and check the needed core pins with the new key and testcore. If they fit properly, continue to Step 3.

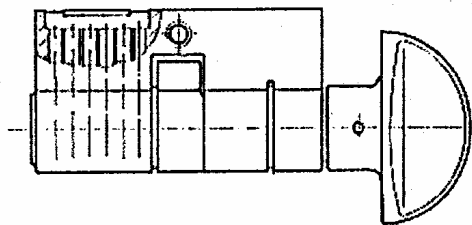


3. Place the assembling funnel and fill in:

Core (bottom) pins (see Step 2)
Housing (top) and diabol (top spool) pins
Springs



4. Remove the assembling funnel and fix the plastic insert (E) by pressing.



Key blanks from HOPPE: SCH 50/27
Mini rekeying kits rekey 10 cylinders:
Large rekeying kits rekey 100 cylinders:

5 Pin Schlage Keyway
SCHKK-5MINI
SCHKK-5

Installation Instructions – 90° Degree Turn Cylinder

1. Loosen set screw (C) on knob using the allen wrench provided
2. Remove knob (D) from body of cylinder (B)
3. The drive tab (J) must be aligned with the cylinder to install the cylinder into the lock mechanism. If the tab cannot be rotated to this position, push the pin (E) down with the ring wrench (F) included to disengage the stops and turn the cylinder shaft (B) until the drive tab (J) is aligned with the cylinder (G).
4. Holding in this position, insert the cylinder body into door so the tab on the cylinder is inside of the lock.
5. Rotate the shaft (B) that the thumb turn attaches to, so that the top of the post moves toward the edge of the door or insert the key (A) into the cylinder and rotate so the top of the key moves towards the edge of the door (H). This will extend the deadbolt. If the post or key is rotated the wrong direction, it will rotate approximately 120 degrees and lock up where it cannot be rotated in either direction. If this happens, push the pin (E) down with the ring wrench (F) included to disengage the stops and turn the key (A) in the opposite direction until the deadbolt extends.
6. Fix knob (D) horizontally on cylinder shaft (B) with set screw hole (C) downwards.
7. Tighten set screw (C). Install cylinder screw.

TO REMOVE CYLINDER: Loosen and remove cylinder screw and repeat.

