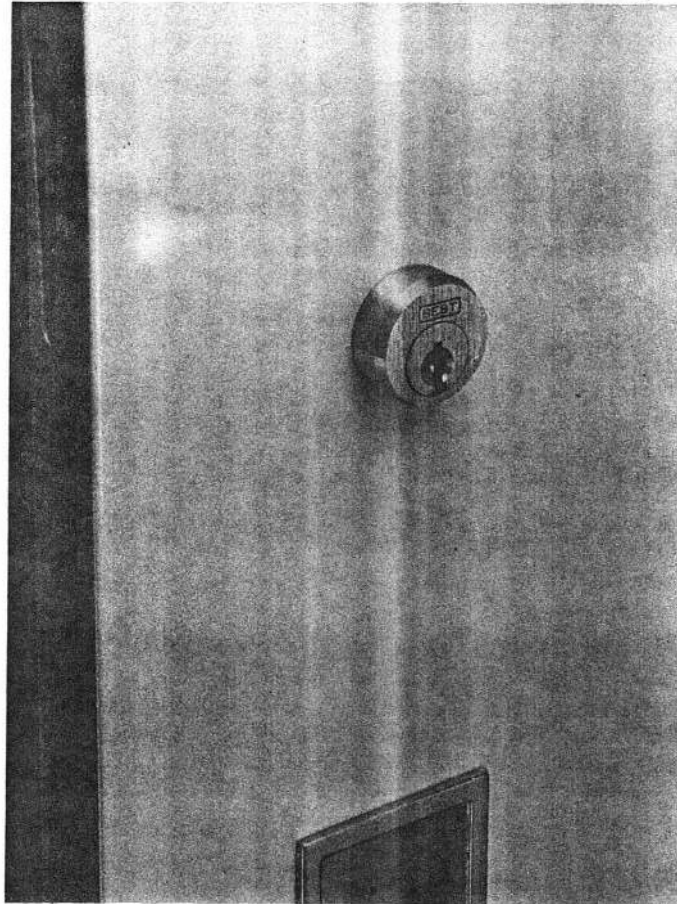




BEST LOCK CORPORATION

INDIANAPOLIS, INDIANA

5E SERVICE MANUAL



BEST LOCK CORPORATION

5E UTILITY CYLINDER LOCK

GENERAL INFORMATION

This manual is to serve as an aid to Best Representatives and Best Systems Maintenance Personnel in field servicing Best 5E Locks.

5E Locks may be purchased either combined or uncombined. When recombining a 5E it is recommended to use a new cap (5ECP6 or 5ECP7 for 6 or 7 pin cylinder respectively) and new 5ES1 Core Springs. It is therefore recommended that if customer plans to do their own combining, extra caps and springs should be ordered.

It is recommended that lock maintenance personnel familiarize themselves with the contents of the manual.

(MANUAL CONTENTS ARE SUBJECT TO CHANGE WITHOUT NOTICE)

5E UTILITY CYLINDER LOCK (3/4" DIA.) SPECIFICATIONS

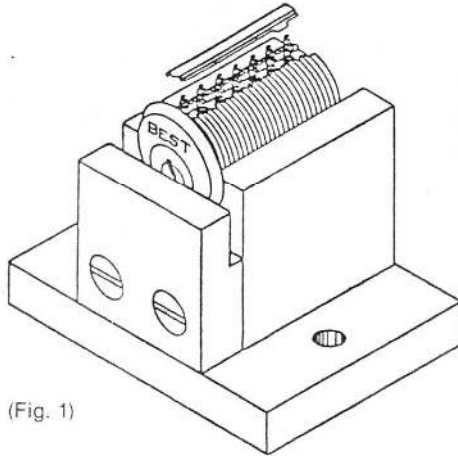
MATERIAL:	Housing and Plug — Machined from solid brass. Keys — Nickel Silver. Springs — Phosphor Bronze. Segment Cap — Stainless Steel.
FINISH:	Satin Chrome — 626
KEYING:	May be keyed individually, keyed alike, or masterkeyed with all other Best locks. Furnished in 6 or 7 pin barrel length. The 5E Series lock can be combined or rekeyed in the field (see combining instructions).

COMBINATING THE 5E UTILITY CYLINDER LOCK

The Best 5E Cylinder may be combined into an existing Best Locking System. These are single shearline locks utilizing the operating and/or various master series codes with existing keyway.

Combining procedures are similar to The Best "Figure 8" core with exceptions. Contact the factory or your Best Representative for further information.

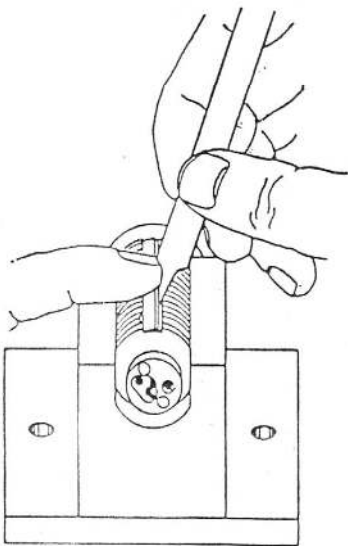
5E CAPPING PROCEDURE



(Fig. 1)



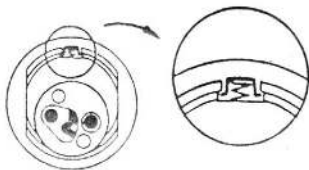
With cylinder in capping block, place a spring (5ES1) in each barrel, then place capping strip (5ECP6-6 Pin or 5ECP7-7 Pin) on top of springs, hollow side down (Fig. 1). Carefully push strip straight down to cylinder compressing the springs and aligning detent on cap with notch in cylinder.



(Fig. 2)



Allow one side of cap to slip down into recess and hold. Position depressor on other edge of capping strip and carefully push down (Fig. 2) until edge of cap snaps into place (Fig. 3).

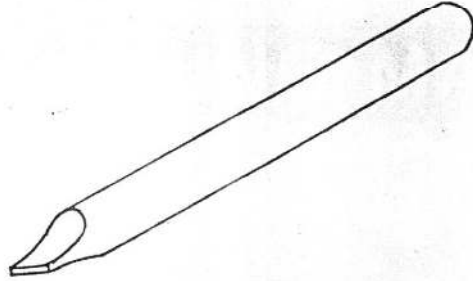


(Fig. 3)

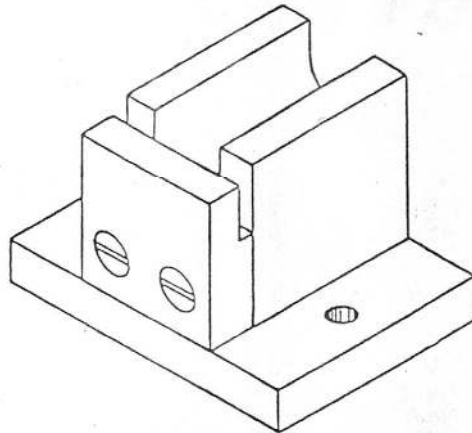
Recombining/Recapping 5E

1. To uncap, insert a small screw driver or similar tool between end of cap and head of cylinder. Pry to slide cap out of slot till small detent near the outboard end clears the cylinder. Carefully pull the cap and slide it all the way out.
2. Recombine the cap as outlined in combining instructions. It is recommended that a new cap and new springs be used for best results when recombining.

5E CAPPING TOOLS



5ED262 — 5E CAP DEPRESSOR



5ED261 — 5E CAPPING BLOCK

KEY SYSTEMS' REQUIREMENTS & CAPACITIES

A. Pin Segment Slack Height Requirements

1. A2 System
 - a. Standard Core - 23
 - b. 5E & 5P Cylinders - 12 Require shorter springs
2. A3 System
 - a. Standard Core - 16
 - b. 5E & 5P Cylinders - 9 Require shorter springs
3. A4 System
 - a. Standard Core - 14
 - b. 5E & 5P Cylinders - 7 Require shorter springs

B. Code Possibilities

1. A2 System - base 4
 - a. 5 Pin - 1,024
 - b. 6 Pin - 4,096
 - c. 7 Pin - 16,384
2. A3 System - base 6
 - a. 6 Pin - 46,656
 - b. 7 Pin - 279,939
3. A4 System - base 5
 - a. 6 Pin - 15,625
 - b. 7 Pin - 78,125

C. Specialty Keying / Products

1. 6C Cores
 - a. Operating combinations keyed to control shearline
 - b. Control combination keyed to operating shearline
2. Key Trap Cores - K
 - a. Special hole drilled in core plug
 - b. Keyed only to key desired to be trapped/recovered & control key
3. Keyed Direct to Control - operated by control and operating key only
4. Keyed Direct to Grandmaster - operated by control and grandmaster only

SERVICE EQUIPMENT**5E254****Metal Punch and Die**

This tool provides a quick method for cutting accurate $\frac{3}{4}$ " slabbed holes in metal cabinets in order to mount the 5E cylinder. Slabbed side prevents cylinder from turning or being forced with head wrench.

To order specify: 5ED254 punch and die.



5ED254– Metal Punch and Die

5ED253 Thread Tap

Matches standard 24 thread on 5E series cylinder locks.

To order specify: 5ED253 thread tap



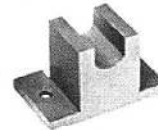
5ED253– Thread Tap

5ED261 Capping Block

The capping process for single shearline 5E cylinders requires the following:

**5E slide caps: 5ECP6– 6 pin
5ECP7– 7 pin**

**5E Cylinder: 5ED261 Capping Block
5ED262 Cap Depressor**



**5ED261– 5E
Capping Block**

Service Equipment for 5E Cylinders (single shearline)

Best single shearline locks may be combined to Grand Master, Master and/or any operating combinations in your BEST system. Utilizes the AD433 Key Combinator.

See (D Series) Service Equipment Catalog for details.

5ED250 Combining Kit (single shearline)

Similar to standard CD431 kit for figure 8 cores, the single shearline kit provides a special 5ED261 capping block, springs (5ES1) and caps (5ECP)

To order specify:

5ED250 - 2 (for A2 system)

5ED250 - 3 (for A3 system)

5ED250 - 4 (for A4 system)

Pin Segments (included in kit)

Close tolerance segments assist in accurate combining.

To order: Contact your local Best Representative.

Core Springs (included in kit)

This properly sized spring facilitates consistent action in all BEST figure 8 cores.

To order specify: 22S springs.

Core Caps (included in kit)

Barrels are securely sealed by applied core caps.

To order specify: 21C caps.



**5ED250– Combining Kit
(single shearline)**