

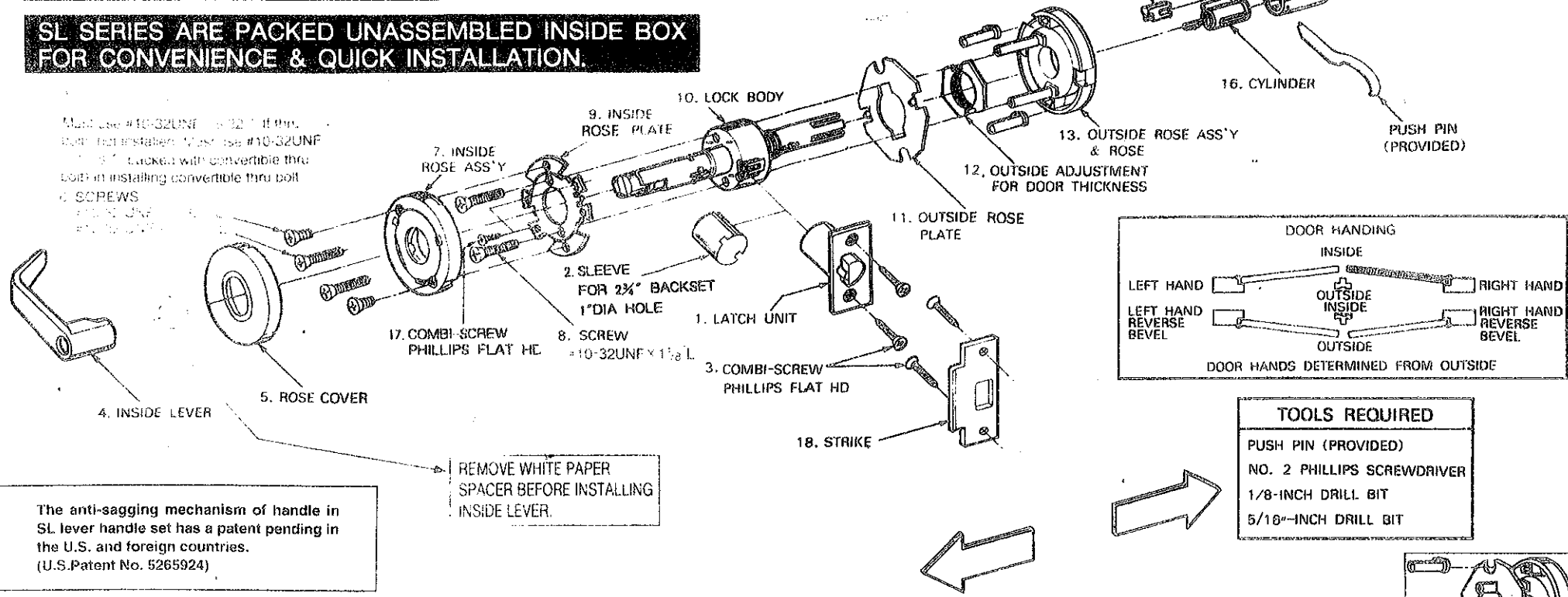
CAL-ROYAL

PRODUCTS, INC.

INSTRUCTIONS FOR INSTALLING SL SERIES LEVER HANDLE SETS.

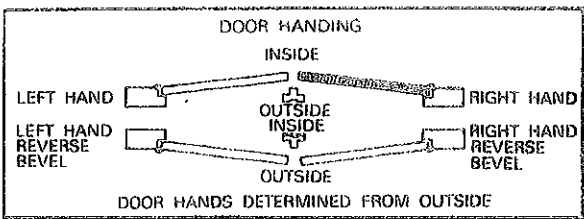
* THURBOLTS ARE PROVIDED AND RECOMMENDED FOR USE ON HIGH FREQUENCY DOORS.

SL SERIES ARE PACKED UNASSEMBLED INSIDE BOX FOR CONVENIENCE & QUICK INSTALLATION.

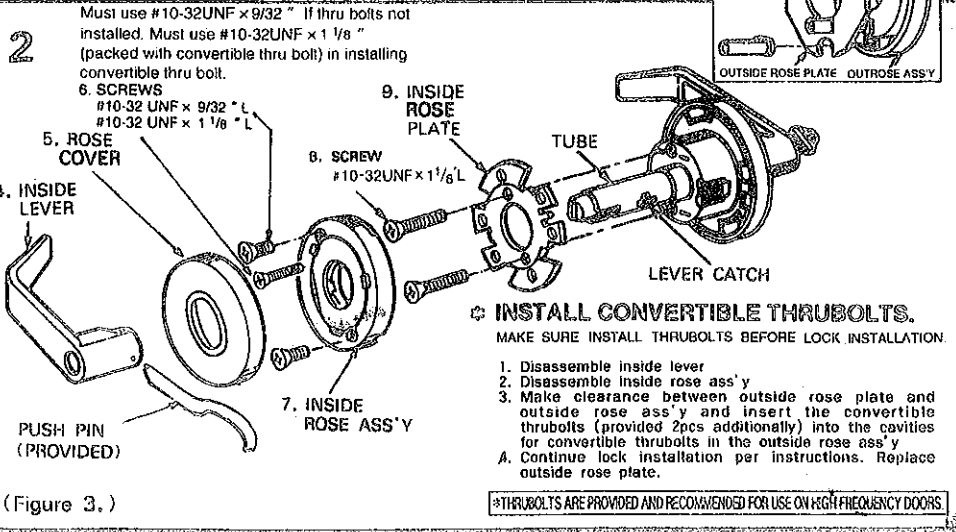
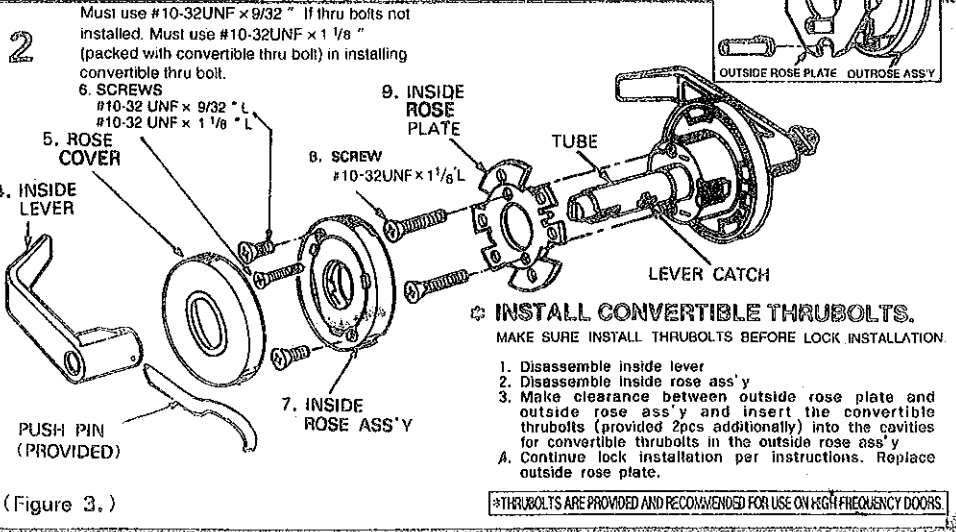
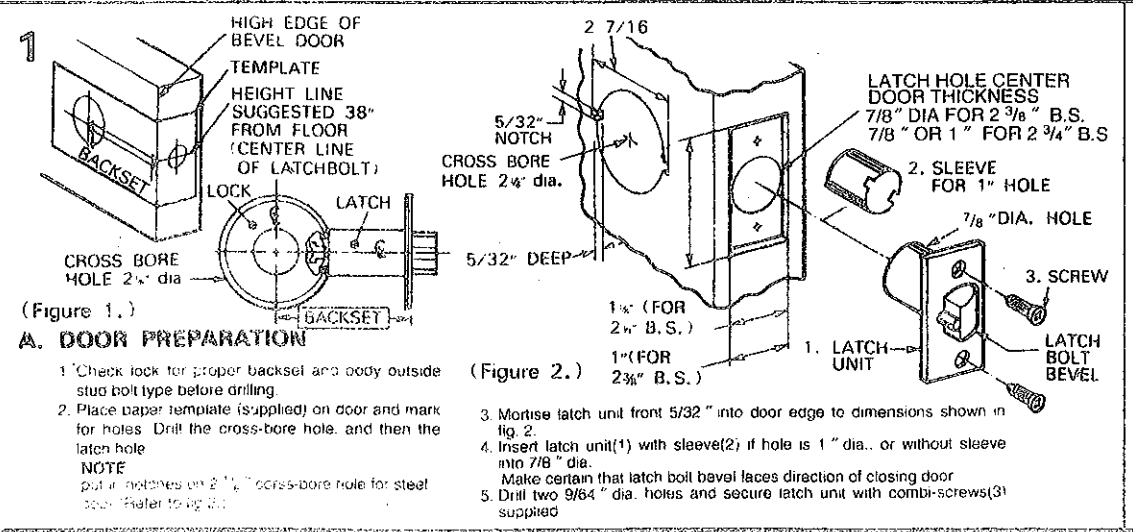
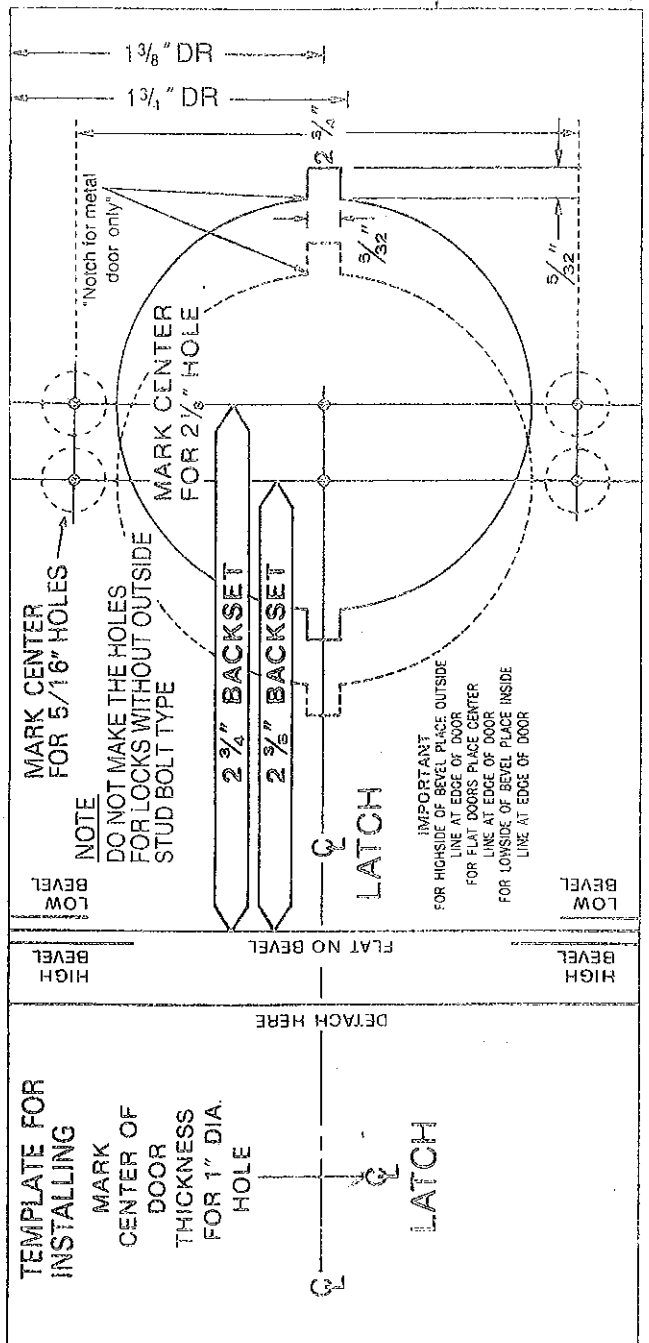


The anti-sagging mechanism of handle in SL lever handle set has a patent pending in the U.S. and foreign countries. (U.S. Patent No. 5265924)

REMOVE WHITE PAPER SPACER BEFORE INSTALLING INSIDE LEVER.

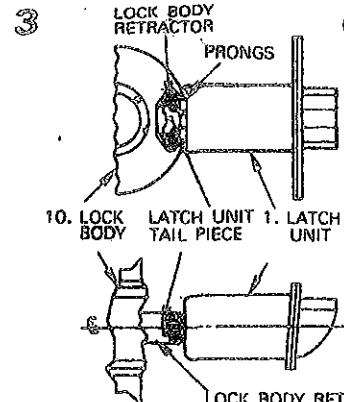


- TOOLS REQUIRED**
- PUSH PIN (PROVIDED)
 - NO. 2 PHILLIPS SCREWDRIVER
 - 1/8-INCH DRILL BIT
 - 5/16-INCH DRILL BIT



- INSTALL CONVERTIBLE THURBOLTS.**
MAKE SURE INSTALL THURBOLTS BEFORE LOCK INSTALLATION.
- Disassemble inside lever
 - Disassemble inside rose ass'y
 - Make clearance between outside rose plate and outside rose ass'y and insert the convertible thru bolts (provided 2pcs additionally) into the cavities for convertible thru bolts in the outside rose ass'y
- A. Continue lock installation per instructions. Replace outside rose plate.

* THURBOLTS ARE PROVIDED AND RECOMMENDED FOR USE ON HIGH FREQUENCY DOORS.



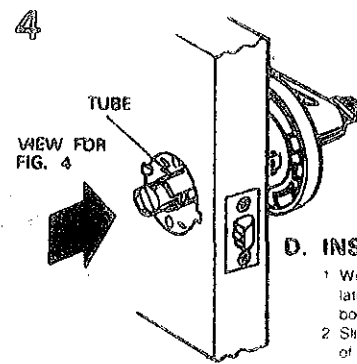
(Figure 4.)

C. LOCK BODY ALIGNMENT & CENTERING

The lock body must engage the latch unit (1) prongs as shown. The lock body retractor must engage the latch unit tail piece. Door must be opened when installing lockset with guarded latch unit.

NOTE:
Be sure latch unit tail piece is centered within lock body retractor. Adjust if necessary by outside plate (11) as shown in fig 10 and fig 11.

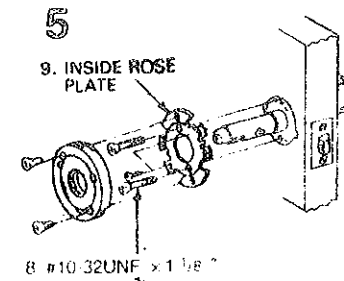
LOCK BODY RETRACTOR ON CENTER LINE OF LATCH UNIT TAIL PIECE



(Figure 5.)

D. INSTALLATION OF LOCK UNIT

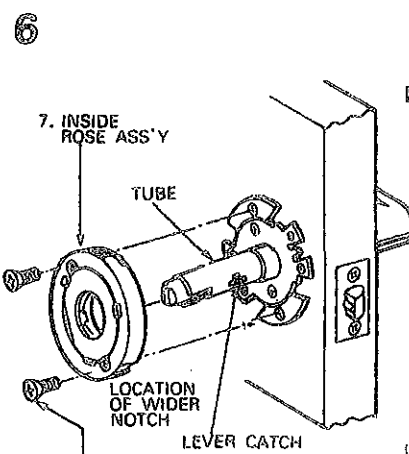
- 1 With finger, depress the latch, extending the latch unit tail piece to aid in engaging the lock body retractor (see fig 4).
- 2 Slide lock body into cross-bore hole from exterior of the door if necessary move tail piece slightly to engage retractor as shown in fig 4.



(Figure 6.)

E. SECURING THE LOCKSET UNIT TO DOOR.

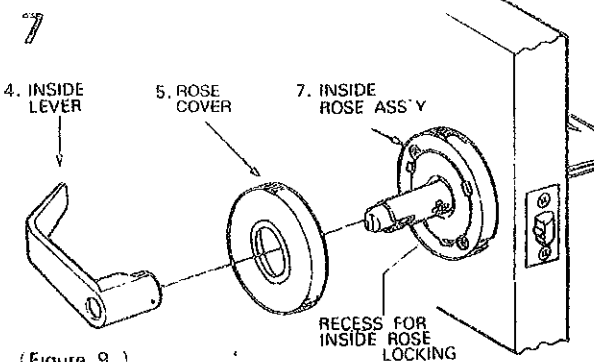
1. Place the inside rose plate (9) against the lock body with two #10-32UNF x 1/2" screws (6).
 2. Drill two 1/4" diameter holes and secure the rose plate with two combination screws (7).
- THIS MUST BE DONE TO FIRMLY ANCHOR LOCK TO DOOR**



(Figure 8.)

F. ATTACHING INSIDE ROSE ASS'Y

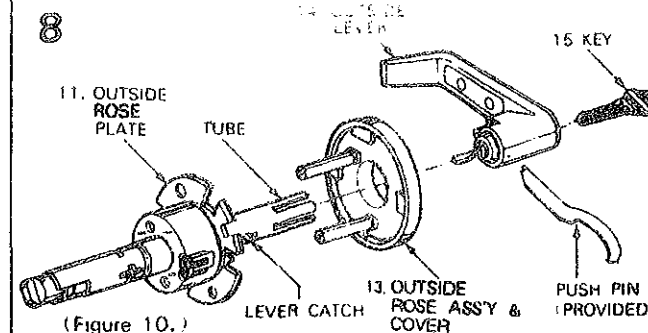
1. Position the inside rose ass'y's screw holes vertically with wider notch at inside diameter in line with lever catch. Then slide onto tube and align rose screw holes with #10-32UNF x 9/32" L screw (6).
2. Secure inside rose ass'y to inside rose plate with two #10-32UNF x 9/32" L screws (6).



(Figure 9.)

G. INSIDE LEVER INSTALLATION

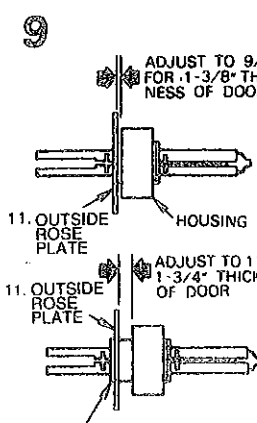
- 1 Place rose cover (5) onto inside rose ass'y aligning two lances with recesses in rose ass'y and turn clockwise to lock as firmly as possible
- 2 Slide inside lever (4) onto tube. Mask certain lever catch on tube is engaged with lever.
3. Remove Black Foam Before installing inside Lever



(Figure 10.)

H. TO REMOVE OUTSIDE LEVER & ROSE

1. To remove outside lever (14) insert key (15) and turn 45° clockwise. Insert push pin into hole on lever to depress lever catch. Slide the lever (14) from tube.
 2. Remove outside rose ass'y & rose (13)
- NOTE:**
This step must be done if you have to make adjustments for door thickness. See note in fig. 4 & fig 11.



(Figure 11.)

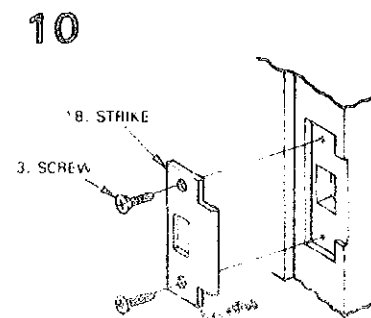
I. ADJUSTMENT FOR DOOR THICKNESS

It can be adjusted for door thickness range from 1 1/4" to 1 3/4". For adjustment of door thickness, follow step 8 then:

1. Adjust outside adjustment nut for proper door thickness. At final position, the screw post holes must be in line with holes in lock body.
2. Slide outside rose ass'y with rose cover (13) onto tube with the wider notch at inside diameter in line with lever catch. The screw posts will enter the holes pre aligned between rose plate and lock body.
3. Install outside lever by reversing procedure shown in fig. 10.

(Figure 11.)

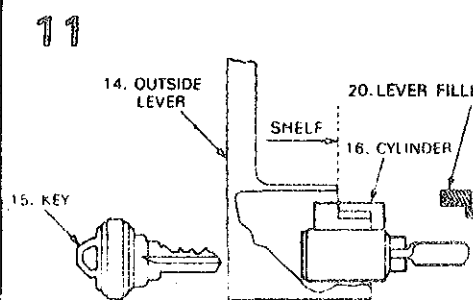
SL SERIES IS PRESET FOR 1 3/4" DOOR AT FACTORY



(Figure 12.)

J. INSTALLING STRIKE

When strike box (19) is not used, recess in door jamb must be deep enough to allow latch bolt to extend to its full free length.

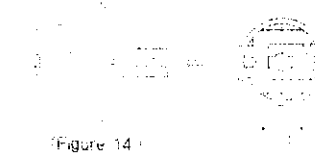


(Figure 13.)

K. CYLINDER REMOVAL & REASSEMBLY

- 1 Remove outside lever (14) and cylinder (16) as described in fig. 10
- 2 To reassemble put a cylinder and key in lever. Push cylinder further until it engages retractor. Turn key 90° clockwise and hold a key. Depress lever catch and push lever (Not key) until it locks. Then remove a key.

WARNING



(Figure 14.)



(Figure 15.)

MAKE SURE TO TURN CAM ANTI-CLOCKWISE BY DRIVER AS FAR AS IT WILL GO BEFORE REASSEMBLING OF CYLINDER TO PREVENT MIS-POSITIONING OF KEY FOR CLASSROOM FUNCTION