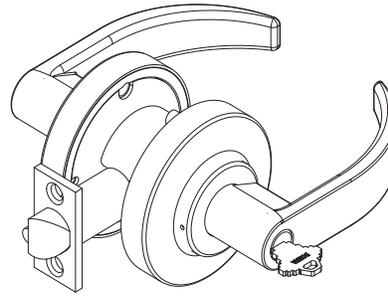


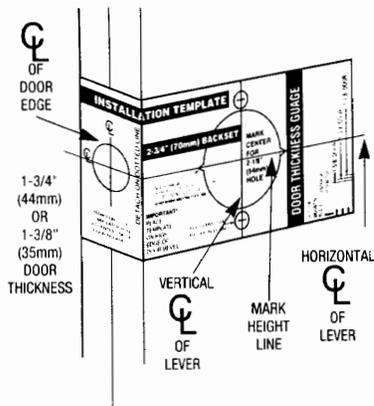
**LR Lever Design**



**LC Lever Design**

**DOOR PREPARATION**

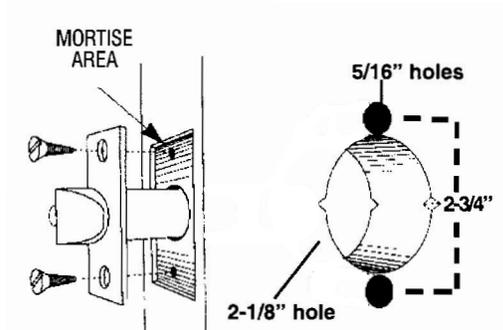
**Figure 1**



**DOOR PREPARATION**

1. Fold and apply template to high edge of door at desired height from floor.
2. Mark hole centers on door and door edge.
3. Drill 5/16" thru-bolt first, then drill 2 1/8" hole.

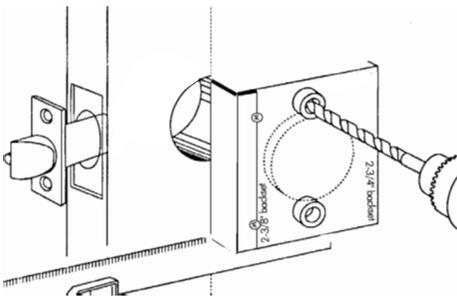
**Figure 3**



**INSTALL LATCH**

1. Drill 1" diameter hole for latch. Mortise for latch front. (Insert latch and fasten with two screws).
- Note: It is important that both 1" and 2 1/8" holes be on same horizontal center line.

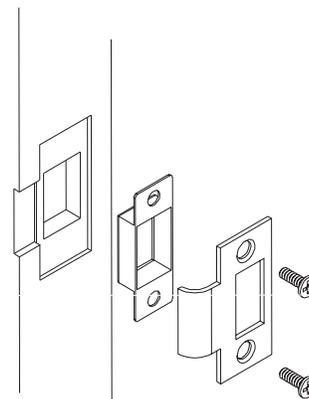
**Figure 2**



**HOLLOW METAL DOORS**

- Must have horizontal and vertical lock and latch case support provided by door manufacturer.
1. If 2 1/8" hole exists, use optional DORMA 76002026 Installation Tool to insure accurate locating and drilling of 5/16" Thru-Bolt holes.
  2. For best results, align and clamp the 76002026 tool to door before drilling.

**Figure 4**

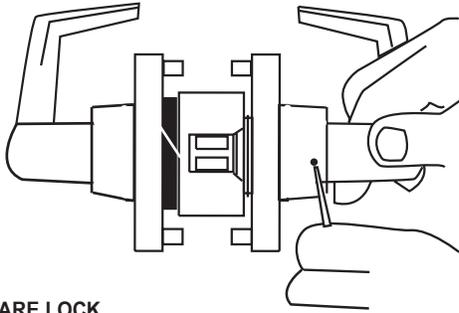


**INSTALL STRIKE**

1. Align strike with latch.
2. Trace strike outline on door jamb.
3. Mortise jamb and install strike and dust boot.

## INSTALLING LOCK

Figure 1



### PREPARE LOCK

1. Remove inside lever. Depress the lever catch with the wire pin through the small hole in the rose/lever and pull lever off the tube.
2. Depress lever catch again and remove the inside rose assembly.

### INSTALL LOCK

1. Push lock through 2 1/8" hole from the outside so that retractor engages latch tail.
2. Prongs must engage inside lock housing.
3. Align outside rose so rose post enters thru-bolt holes in door.
4. Check from inside of door to see if latch is properly engaged.

### INSTALL INSIDE TRIM

1. Replace inside rose assembly and fasten to outside rose with the two long thru-bolts.
2. Press rose cover over inside rose. Notch in cover must align with either indentation on inside rose.

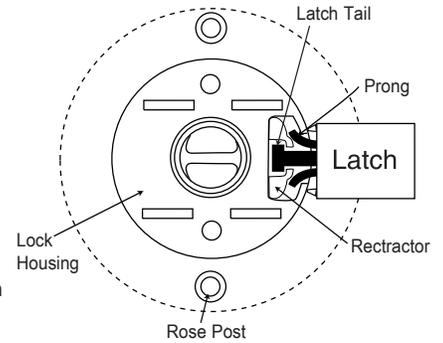
### NOTE:

Be sure stepped plastic washer is between inside rose cover and inside rose before assembling.

### INSTALL LEVER

1. Press lever on lock tube, slightly wiggle and push until lever engages lever catch and connector prongs.
2. Test lever to be sure it is on securely.

Figure 2

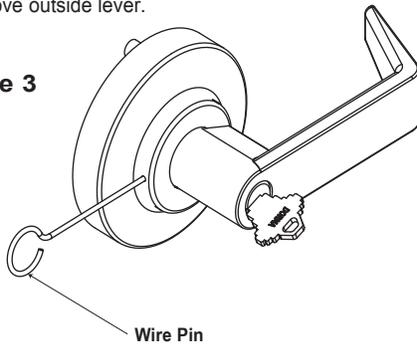


## DOOR THICKNESS ADJUSTMENT

1. Locks are factory pre-set with for 1 3/4" thick door. Lock can be adjusted for 1 5/8" to 1 7/8" door thickness.

**To Adjust For Another Door Thickness**  
Remove outside lever.

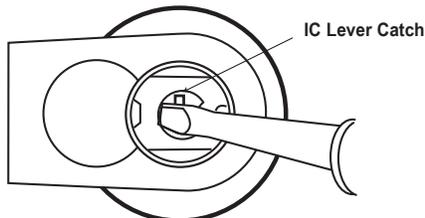
Figure 3



### CONVENTIONAL CYLINDER (Fig. 3)

- A. Turn key in cylinder 45 degrees in either direction.
- B. Depress outside lever catch with wire pin through small hole in rose/lever and pull lever off tube.

Figure 4



### IC CORE CYLINDER (Fig. 4)

- A. With IC core removed, use screwdriver inside lever to depress lever latch.
- B. Pull off lever.

If adjusting for doors thinner than 1 3/4" thickness, split spacer must be removed.

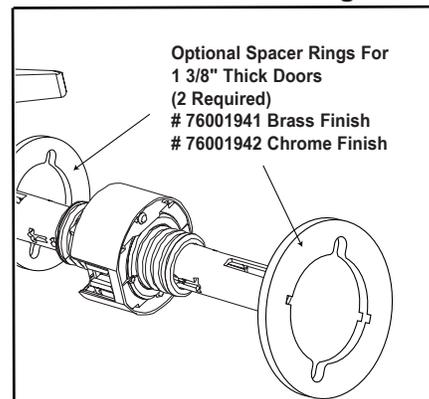
### 2. For 1 3/8" doors

Adjust for 1 5/8" door thickness, then install spacer rings (Fig. 5).

**NOTE; DORMA rings *not* included.**  
Part Numbers 76001941[Brass], and 76001942 [Chrome].

### 3. Reinstall outside lever.

Figure 5



Optional Spacer Rings For  
1 3/8" Thick Doors  
(2 Required)  
# 76001941 Brass Finish  
# 76001942 Chrome Finish

## REINSTALLING OUTSIDE LEVER

Figure 6

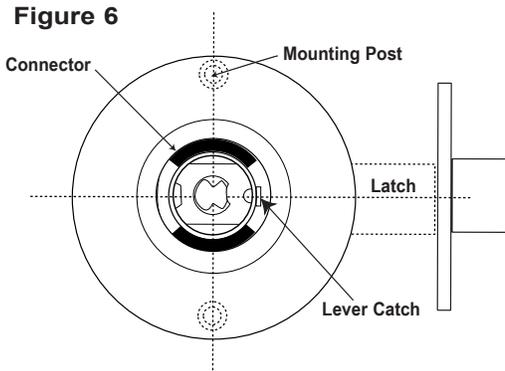
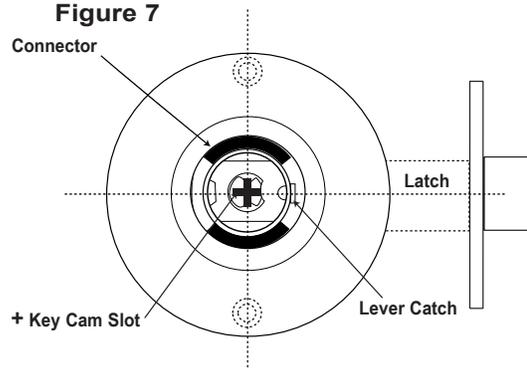


Figure 7



### CL853, CL860 (outside), CL882, CL880, and CL885 Functions

1. Align lever catch to face latch front.
2. Turn key in cylinder 45 degrees in either direction.
3. Slide lever on tube until it stops at the lever catch, and push until the lever engages lever catch and connector.

### CL870 and CL860 (inside) Functions

1. Insert screwdriver in key cam slot, turn fully clockwise. Then, turn back counter-clockwise 90 degrees and remove screwdriver.
2. Turn key in cylinder counter-clockwise 90 degrees. Slide lever on tube with tailpiece aligned properly, and push until the lever engages lever catch and connector.
4. Check lock for proper operation **before** closing door.

### CL877 Function

1. Install inside cylinder. Any orientation in key cam slot is acceptable.
2. Install the outside cylinder as follows:  
Using a screwdriver, place the tip into the key cam slot and turn counter-clockwise as far as possible. When at the maximum counter-clockwise position, turn clockwise 180 degrees. With cylinder in the outside lever, turn key clockwise 90 degrees and install on lever tube.
3. Test to see that timing is correct for both inside and outside levers.

## CHANGE/REPLACE CYLINDER

Figure 8

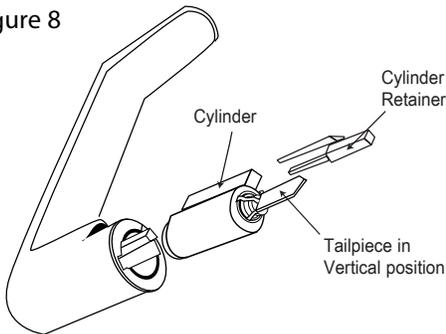
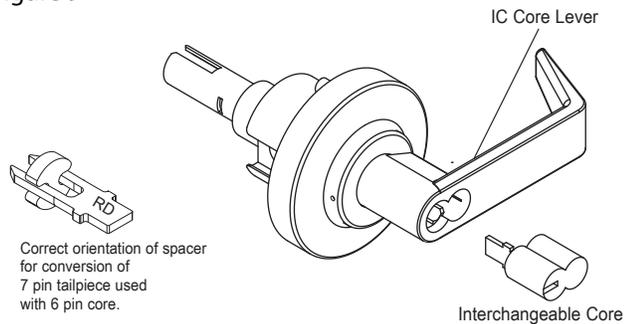


Figure 9



### CONVENTIONAL CYLINDER

#### Removal (all functions)

1. Remove key from cylinder and pull plastic cylinder retainer from lever, then remove cylinder.

#### Installation

1. Tailpiece must be in vertical position in cylinder.
2. Insert cylinder in lever.
3. Press plastic cylinder retainer into lever until flush with base of lever.

### CL873 Function

1. Insert screwdriver in key cam slot and turn fully clockwise without retracting latch. Now turn counter-clockwise 45 degrees. Remove screwdriver.
2. With cylinder in lever handle, insert key and turn clockwise 45 degrees. Slide lever on tube with tailpiece aligned properly.
3. Slightly wiggle and push until lever engages the lever catch and connector.
4. Check lock for proper operation before closing door.

#### NOTE:

Use **DORMA** tailpieces only. Lock will **NOT** function with other tailpieces. Be sure tailpiece is in a vertical orientation.

### INTERCHANGEABLE CORE CYLINDER

#### Removal (all functions)

1. Insert control key and turn clockwise, then pull on key to remove core.

#### Installation

### CL853, CL860 (outside), CL882 and CL880 Functions

1. Insert control key in core and turn clockwise.
2. Insert tailpiece #76002027 in core
3. With control key in core, insert core fully into lock.
4. Turn key counter-clockwise and remove key.

### CL870, CL872, and CL860 (inside) Function

1. Insert screwdriver in key cam slot in tube and turn fully clockwise.
2. Insert control key in core and turn clockwise.
3. Insert tailpiece #76002023 in core.
4. With control key in core, insert core fully into lock.
5. Turn key counter-clockwise and remove key.

### CL877 Function

1. Using a screwdriver, place the tip into the key cam slot and turn counter-clockwise as far as possible.  
When at the maximum counter-clockwise position, turn clockwise 90 degrees  
Insert outside IC core cylinder into lever.
2. Test to see that timing is correct for both inside and outside levers.

# TROUBLESHOOTING

Problem	Solution
Levers pull off	<ol style="list-style-type: none"> <li>1. Lever catch not engaging. Lock may not be centered or door is too thick.</li> <li>2. Cylinder retainer not flush.</li> <li>3. Non-standard sized cylinder.</li> <li>4. Outside rose located improperly.</li> </ol>
Unable to assemble outside lever	<ol style="list-style-type: none"> <li>1. Key orientation incorrect.</li> <li>2. Outside rose located improperly.</li> </ol>
Outside lever removable without using key	<ol style="list-style-type: none"> <li>1. Tailpiece installed in wrong orientation.</li> <li>2. Wrong tailpiece. See tailpiece chart.</li> </ol>
Latch won't retract	<ol style="list-style-type: none"> <li>1. Incorrect retractor/latch engagement or alignment.</li> <li>2. Poor door preparation or misalignment thru-bolts.</li> </ol>
Key binds in lock	<ol style="list-style-type: none"> <li>1. Lever catch not fully engaged.</li> <li>2. Check for proper tailpiece. See tailpiece chart</li> </ol>
Key cannot be removed from cylinder	<ol style="list-style-type: none"> <li>1. Wrong tailpiece alignment.</li> </ol>
<b>CL860, CL870, CL872, CL877 Functions Only</b>	
Lever retracts latch in one direction, but not other	<ol style="list-style-type: none"> <li>1. Incorrect installation of cylinder.</li> </ol>

NOTES:

