

# C.R. LAURENCE CO., INC.

## CRL LOW PROFILE DOOR RAIL SYSTEM Installation Instructions

### NOTE: ALWAYS CHECK YOUR MATERIALS PRIOR TO ATTACHING THE DOOR RAILS

Make sure that the glass is sized correctly, and assure that there are not any unacceptable defects in the glass. Contained within the Door Rail box you will find: one Door Rail, mounting hardware, tools, and instructions.

### DOOR RAIL MOUNTING

- Step 1:** Lay the glass panel flat on two sawhorses or other appropriate support structure. At each end of the Door Rails are spacer blocks used to keep the Wedge-Lock Channels separated. Slip the Door Rail clamping section onto the glass and adjust the vertical edges of the glass with spacer blocks until they align with the end caps (see Figure 1).
- Step 2:** After this alignment is achieved, pull the spacer blocks from each end of the Door Rail. Push the Door Rail toward the glass until the glass bottoms out in the Wedge-Lock Channels (see Figure 2). Check again for alignment.
- Step 3:** Tighten a socket head cap screw in the middle of the channel with the 5/32" T-Handle Allen Wrench supplied with each Door Rail. Tighten all of the socket head cap screws, working left to right, using the 5/32" T-Handle Allen Wrench (see Figure 3). To assure the proper torque is achieved (4 to 5 foot pounds), tighten again from left to right, only this time turn the T-Handle Allen Wrench until it begins to twist. This twist indicates the proper torque has been achieved. Usually a third sequence of tightening is not necessary. However, it's easy to make a quick check by simply inserting the T-Handle Allen Wrench into a screw that was already tightened a second time.
- Step 4:** The Top Low Profile Door Rail must have one of the two supplied Top Pivot Inserts installed prior to hanging the door. If the installation requires a Top Pivot, attach the **Cat. No. 1NT703 Pivot Insert**. If an overhead closer is being used, attach the **Cat. No. 1NT704 Pivot Insert**. The Bottom Low Profile Door Rail must have the **Cat. No. 1NT701 Pivot Insert** fastened into place. The **Cat. No. 1NT701 Pivot Insert** works universally with both bottom pivots and floor closers.
- Step 5:** Fasten Pivot Inserts using the supplied 7/16" Open-End Wrench. The hardware should be centered in the machined pocket for nominal vertical door edge alignment (see Figure 4). Install flat washers between the hex head bolts and the mounting hardware before tightening.

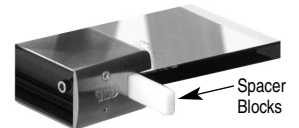


FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4

### ADJUSTING THE REVEAL BETWEEN THE DOOR AND FIXED PANEL OR JAMB

**IMPORTANT:** This adjustment must be done prior to installing lock cylinders/thumbturns.

- Step 1:** Open the door, then using a #1 Phillips screwdriver, remove the door's pivot edge end cap and slide the Door Rail's side panel until removed from the door (see Figure 5).
- Step 2:** Place a vacuum cup on the handle edge of the door and **position support blocks under the door assembly** to prevent the door from dropping during adjustment.
- Step 3:** Starting with either the top or bottom Door Rail, depending on which end is furthest from alignment, use the 7/16" Open-End Wrench to loosen the two 1/4" hex head bolts that secure the mounting hardware (see Figure 6).
- Step 4:** Lift or lower the handle edge of the door to improve the reveal, and adjust blocking to hold the new position.
- Step 5:** Tighten the two 1/4" hex head bolts that secure the mounting hardware, and if necessary, repeat steps 2 through 4 on the remaining Door Rail.
- Step 6:** With the door in the open position, slide the Door Rail's side panels into position covering the clamping section of both Door Rails. Reinstall the end caps (see Figure 7).



FIGURE 5



FIGURE 6



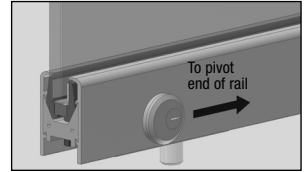
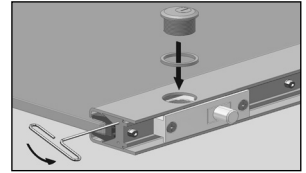
FIGURE 7

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## CYLINDER AND THUMBTURN MOUNTING INSTRUCTIONS (IF USING LOCKS)

**Step 1:** Remove the End Cap to gain access to the two 2 mm Allen set screws located in the end of the locking mechanism. Back the Allen screws out until the tips have cleared the threads for the cylinder and/or thumbturn. Thread the cylinders or cylinder/thumbturn that have been chosen for the application through the pre-fabricated holes in the sides of the Door Rail and into the lock mechanism. Be sure the 1/4" (6.3 mm) spacer rings are on the cylinder or thumbturn before doing this.

**Step 2:** Assure that the cylinder/thumbturn is properly aligned. The keyway/thumbturn should always be to the pivot end of the Door Rail (see photo inset). Tighten the two 2 mm Allen set screws with **Cat. No. T620** 2 mm T-Handle Hex Key (optional) to secure the cylinders in the correct position. Check to see that the cylinder/thumbturn on each side of the Door Rail operates freely before attaching the end cap. Set screw T-Handle Hex Keys (**Cat. No. T620** and **T912**) are available in our **Cat. No. DRWK2** Door Rail Wrench Kit (optional).



## CYLINDER/THUMBTURN OPTIONS FOR DOOR RAILS

Keyed Cylinder: Cat. No. **DRA50** (specify finish)  
Thumbturn: Cat. No. **DRA60** (specify finish)  
Low Profile Thumbturn: Cat. No. **DRA62** (specify finish)  
Dummy Cylinder: Cat. No. **DRA30** (specify finish)

## FINISHES FOR CYLINDERS/THUMBTURNS:

Clear Anodized (**SA**)  
Duranodic Bronze (**DU**)  
Polished Stainless (**PS**)  
Brushed Stainless (**BS**)  
Polished Brass (**PB**)

## APPLICATION GUIDELINES FOR LOW PROFILE DOOR RAILS AND ACCESSORIES

Low Profile Door Rail applications can be divided into these categories:

**1)** When using an **Overhead Concealed Door Closer** at the top, and a **Free-Swinging Pivot** at the bottom of the door, the following components should be used:

**Top Rail Insert: Cat. No. 1NT704** Pivot Insert for Overhead Closer with 9/16" (14.2 mm) Square Spindle.

**Bottom Rail Insert: Cat. No. 1NT701** Pivot Insert for Pivots with Flat Tapered or Universal Round Spindle.

**2)** When using a **Floor Closer** below the door, and a **Free-Swinging Pivot** at the top, the following components should be used:

**Top Rail Insert: Cat. No. 1NT703** Pivot Insert for Pivot with 19/32" (15 mm) diameter Spindle.

**Bottom Rail Insert: Cat. No. 1NT701** Pivot Insert for Floor Closers with Flat Tapered Spindle.

**3)** When using **Free-Swinging Pivots** at the top and bottom of the Door Rails, the following components should be used:

**Top Rail Insert: Cat. No. 1NT703** Pivot Insert for Pivot with 19/32" (15 mm) diameter Spindle.

**Bottom Rail Insert: Cat. No. 1NT701** Pivot Insert for Pivots with Flat Tapered or Universal Round Spindle.

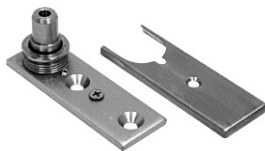
## ACCESSORIES:



**Cat. No. CRL9040WBP**  
Walking Beam Pivot



**Cat. No. 1NT401**  
Top Free-Swinging Pivot



**Cat. No. 1NT403**  
Adjustable Free-Swinging  
Floor Mounted Pivot



**Cat. No. 1NT402**  
Floor Mounted  
Free-Swinging Pivot



**Cat. No. 1NT406**  
Adjustable Free-Swinging  
Floor Pivot with  
Flat Tapered Spindle