C.R. LAURENCE CO., INC.

CRL WEDGE-LOCK™ DOOR RAIL SYSTEM

Installation Instructions

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

Make sure that the glass is the correct size and assure that there aren't any unacceptable defects in the glass.

DOOR RAIL MOUNTING

Step 1: Lay your 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 onto the glass and align the vertical edge of the glass even with the End Cap (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 **Cat. No. T912** 3/16" T-Handle Hex Key supplied with each Door Rail. Now tighten all the socket head cap screws, working left to right, using the **Cat. No. T912** 3/16" T-Handle Hex Key (see Figure 3). To assure the proper torque is achieved (7 to 8 foot pounds), tighten again from left to right, only this time turn the Hex Key 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 Hex Key into a socket head cap screw that was already tightened a second time.

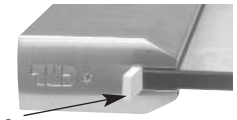


FIGURE 1


FIGURE 2


FIGURE 3

KWIK-ADJUST™ PIVOT ALIGNMENT SYSTEM

The purpose of the Kwik-Adjust™ Pivot Alignment System is to provide side-to-side adjustment of the door. This adjustment will change the reveal between the edge of the door glass and the adjacent fixed panel or jamb. The low profile of the Kwik-Adjust™ Pivot Alignment System allows the arm or pivot blocks to be moved to a position other than the standard American setback of 2-3/4" (70 mm). This means that if you use our Door Rails we can fabricate them for vertically out-of-square openings. The Kwik-Adjust™ System will accommodate up to 3/16" (5 mm) of side-to-side adjustment in either direction.


Kwik-Adjust™ System

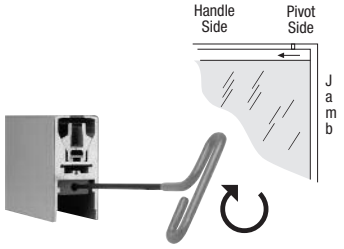
INSTRUCTIONS FOR ADJUSTING THE DOOR RAIL AWAY FROM THE JAMB

Step 1: Open the door to 90 degrees. Remove the End Cap (one screw). This will reveal the adjustment screw.

Step 2: Insert the **Cat. No. T912** T-Handle Hex Key into the adjustment screw and turn the screw clockwise to achieve desired clearance from the jamb.

Helpful Hint: One full turn of the socket head cap screw will adjust the Door Rail 1/16" (1.6 mm).

Step 3: Replace the End Cap.



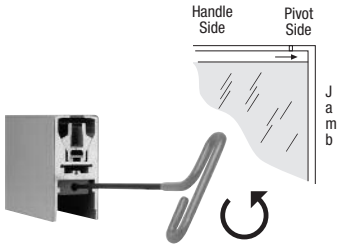
INSTRUCTIONS FOR ADJUSTING THE DOOR RAIL TOWARD THE JAMB

Step 1: Open the door to 90 degrees. Remove the End Cap (one screw). This will reveal the adjustment screw.

Step 2: Insert the **Cat. No. T912** T-Handle Hex Key into the adjustment screw and turn the screw counterclockwise to achieve desired clearance from the jamb.

Helpful Hint: One full turn of the socket head cap screw will adjust the Door Rail 1/16" (1.6 mm).

Step 3: Replace the End Cap.



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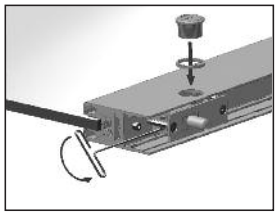
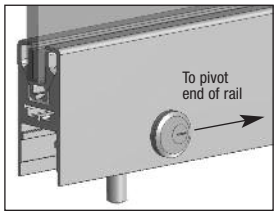
CYLINDER AND THUMBTURN MOUNTING INSTRUCTIONS (IF USING LOCKS)





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 1/8" (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

There are four different types of cylinders:
Keyed Cylinder: Cat. No. **DRA10** (specify finish)
Thumbturn: Cat. No. **DRA20** (specify finish)
Low Profile Thumbturn: Cat. No. **DRA22** (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 DOOR RAIL FITTINGS AND ACCESSORIES

Door Rail applications can be divided into three 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 Fitting: Cat. No. CRL8010AS Short End-Load Arm Assembly
Bottom Fitting: Cat. No. CRL8010DP Bottom Free-Swinging Pivot Set

2) When using a **Floor Closer** below the door, and a **Free-Swinging Pivot** at the top, the following components should be used:
Bottom Fitting: Cat. No. CRL9040AS Short Floor Closer Bottom Arm
Top Fitting (options): Cat. No. CRL9040WBP Walking Beam Pivot can be used at the top of the door. This pivot can be used when the top fitting is to be anchored to an aluminum header or when the fitting is to be recessed mounted into a wood header.
Cat. No. CRL9040TDF Top Door Free-Swinging Pivot can be used at the top of the door. This pivot can be used when the top fitting is to be anchored directly to a wood header or metal substrate that utilize a surface mounted pivot, such as our **Cat. No. 1NT401**.

3) When using **Free-Swinging Pivots** at the top and bottom of the Door Rails, the following components should be used:
Bottom Fitting: Cat. No. CRL8010DP Bottom Free-Swinging Pivot Set
Top Fitting (options): Cat. No. CRL9040WBP Walking Beam Pivot can be used at the top of the door. This pivot can be used when the top fitting is to be anchored to an aluminum header, or when the fitting is to be recessed mounted into a wood header.
Cat. No. CRL9040TDF Top Door Free-Swinging Pivot can be used at the top of the door. This pivot can be used when the top fitting is to be anchored directly to a wood header or metal substrate that utilize a surface mounted pivot, such as our **Cat. No. 1NT401**.

ACCESSORIES:

Cat. No. CRL8010AS
Short End-Load Arm Assembly

Cat. No. CRL8010DP
Bottom Free-Swinging Pivot Set

Cat. No. CRL9040AS
Short Floor Closer Bottom Arm

Cat. No. CRL9040WBP
Walking Beam Pivot

Cat. No. CRL9040TDF
Top Door Free-Swinging Fitting

Cat. No. 1NT401 Top
Free-Swinging Pivot

Cat. No. DRWK2
Door Rail Wrench Kit