











Button Rail System - Installation instructions

- Determine the finished floor edge

 1) Determine the highest foor elevation in the area, including turns.
 2) Verify the standiness of the structure that will be used to apport the Batton Rall System. This Ralling system is designed to accommodate straightness variation of +- 14* any additional variation needs to be addressed with the Superintendent before continuing.
- Confirm the finished floor thickness and finish floor edge location including any leveling compound or finish trim. From the highest finished floor point use a string line or a laser level to establish a straight and level datum line representing the exact edge of finished floor.

Locate and Weld Mounting Blocks

- Measure down from datum line, the vertical locating dimensions as shown on the Livers Bronze Co. Final Drawing set and establish a releence line to the top of the Mounting Block (BTN-1004).
 Layout the horizontal spacing locating the Mounting Block from the start of the run.
- 3) Do not weld any Mounting Blocks until you can verify all of the spacing in the run.
- 4) Level and damp the Mounting Blocks in position being certain to held the horizontal and vertical dimensions from the Firal Drawing Set.
 Firal Drawing Set.
 Fig. Houghed the Mounting Block to the structure using the (2) holes provided

- Mounting of the Inner Spools

 1) Screw the Inner Spool of the top button to the weld block.

 A) Set the Button Head Cap Screw on the tip of your hex key. B) Apply locktite to the screw threads.

 - C) Sip the Internal Lock Washer over the Button Head.
 D) Slide the Button Head thru the Inner Spool and thru the Cover Plate.
 - E) Hold the Cover Plate with one hand while still holding the hex key in your other hand, you may now rotate and position the entire assembly in the upper hole in the Mounting Block. Do not concern over the position
- and position the entire assembly in the upper note in the wouthing elock. Lot not concern over the posit or rotation of the shot, yet.

 F) Start the Button Head Cap Screw and loosely lighten.

 2) Screw the lower Inner Spool to bottom hole of the Mountling Block using the Button Head Cap Screw & Internal Lock Washer.
- Lock Washer.

 3) Orientate both slots of the Inner Spools, horizontal, and then center them under the Button Head Cap Screws.

 4) Before tightening the Button Head Cap Screw, slide the Cover Plate, centering it over the Mounting Block.

 5) Tighten the Button Head Cap Screw to 18 fifth, using a #5 metric hex key.

Installation of the Outer Spool

- statation of the Outer Spool

 1) Apply locatile to the threads of the 5/16-18 x 1-1/2" Set Screw and thread into the Outer Spool and tighten until anug.

 2) Place one PVC Washer over the Stud.

 3) On both ends of each run spin the Outer Spool onto the Inner Spool until the Outer Spool is %" away from the cover
- plate and or weld block.
- pairs and or views copic.

 Set up a string lime between the two ends of the Outer Spool to establish a straight reference line to check
 for both level and alignment.

 So Spin on the remaining Outer Spools onto the Inner Spools until they are in Ine with the string line.

 Plumb the bottom buttors off of the top button. Buttons digned, vertical 8 harborated, at this step allow for a better

WARNING!

GLASS PANELS ARE AT RISK OF EDGE DAMAGE. GLASS MUST BE PROTECTED BY INSTALLING A CUSHION OVER EXPOSED EDGES WHILE LIFTING, CARRYING OR INSTALLING GLASS.

WARNING!

PERSONS NOT ESSENTIAL TO THE INSTALLATION OF THE GLASS SHOULD NOT BE ALLOWED INTO THE AREA AROUND THE LIFT. AREAS BELOW ANY ELEVATED WORKING SURFACES ARE TO BE BARRICADED AND CLEARLY MARKED AS A FALLING HAZARD TO PREVENT INJURY OR DEATH

Glass & button installation

- 1) The recommended method of hanging the glass is to have two men on the lift and one on the
- The two men can raise the glass from the lift truck and set it on the PVC Washer covering the
- 3) The man on the balcony can then steady the glass while the two below install the outer PVC Washers then the outside Buttons.
- 4) Starting on one end of the run, set the glass and loosely tighten both Buttons that go thru the
- holes in the glass, the Button on the stud that pass between the glass will install later. 5) The man on the balcony must level the glass using the special foot bar while the men below
- tighten the buttons. 6) Install the second piece of glass the same as the first using only the buttons that are for the studs
- that pass through the holes in the plass, the buttons that pass between the plass will install later.
- 7) On this piece and all following glass, the upper man must not only level the glass, he must align
- the top edge with the preceding piece then check that the vertical gap between it and the preceding glass is uniform, this step is critical and must be correct before moving on.
- The alignment front to back will happen with the installation of the side or top rail.
 Install the two PVC Washers & Buttons between the glass sections before moving to set the next.
- piece of glass.

- The Button Rail System is designed to allow slight adjustment if the installation requires The Outer Spool can adjust the distance from the structure using a common spanner wrench.
- 3) The Spool may be adjusted along the structure either horizontally or vertically using the slot
- located in the Inner Spool.
 - A) Loosen and remove the Button, leaving the glass in place.
- B) Remove the Set Screw from the Outer Spool
- C) A hex key can be inserted thru the hole in the Outer Spool to loosen the Button Head Cap Screw Holding the Inner Spool to the Mounting Block,
- D) Adjust the Spool as required, re-tighten and re-assemble the hardware.

Handrail Installation

This system requires the installation of either a top rail or side rail to align the glass panels.



GLASS BRKT DETAIL

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LIVERS BRONZE CO. RECOMMENDS
THREAD LOCKER 262, (ADHO023) TO
SECURE ALL MECHANICAL CONNECTIONS





