

RAIL INSTALLATION

ELEVATOR GUIDE RAIL ALIGNMENT - HOW TO USE PLUMB LINE CLAMPS, GAUGES AND TENSIONERS

One of the most commonly used methods of aligning elevator guide rails employs music (piano) wire, clamps, and gauges.

1. The clamps are installed top and bottom on the guide rail stack. Do this for each guide rail.
2. Lower your weighted music wires to the bottom clamps, cut to length and fasten to the top clamps, in the proper hole for your gauges.
3. Feed the lower ends of the music wires, less weight, through the corresponding hole in the bottom clamps, apply tensioners and tighten, as illustrated in *figure 1*.
4. Check your Plumb Line Gauges (thumb gauges, etc.) to make sure they are accurate.



Figure 1

Next set up your Rail Pointer (Bayonet) Gauge.

1. Determine whether to use $\frac{3}{4}$ " or 1" conduit to fasten the two halves together.
2. Cut the conduit to length, slightly less than the desired DBG (Distance Between Guides).
3. Place the left and right halves on the end of the conduit, with the pointers facing each other, lay on a flat surface and finger tighten. Then locate the half(s) so that the notches, adjacent to the pointers, measure the same distance, as your DBG. Tighten the halves to the conduit. See *figure 2*.
4. Adjust your pointer gauge plates (movable). Loosen the nuts on the back of the gauge plates, place your Rail Pointer Assembly vertically against the face of the rail, (we are assuming this surface is straight and true) so that the pointer arms are on the face and pointing toward each other, center the gauge plates under the pointer and tighten. You are now ready to begin aligning the elevator guide rail system.



Figure 2

Wurtec Part #'s Used: Refer to catalog page for complete product details.

#10-190 - Plumb Line Tensioner

#10-150, #10-151, #10-152, #10-160, #10-170, #10-180 - Plumb Line Clamps

#10-200, #10-210, #10-211, #10-220, #10-230 - Plumb Line Gauges

#10-100, #10-105, #10-110 - Rail Pointer Sets

#13-100, #13-110, #13-120, #13-130 - Music (Piano) Wire