

DOUBLE SIDED PLUMB LINE DROP TOOL

Part No. 15-10082124

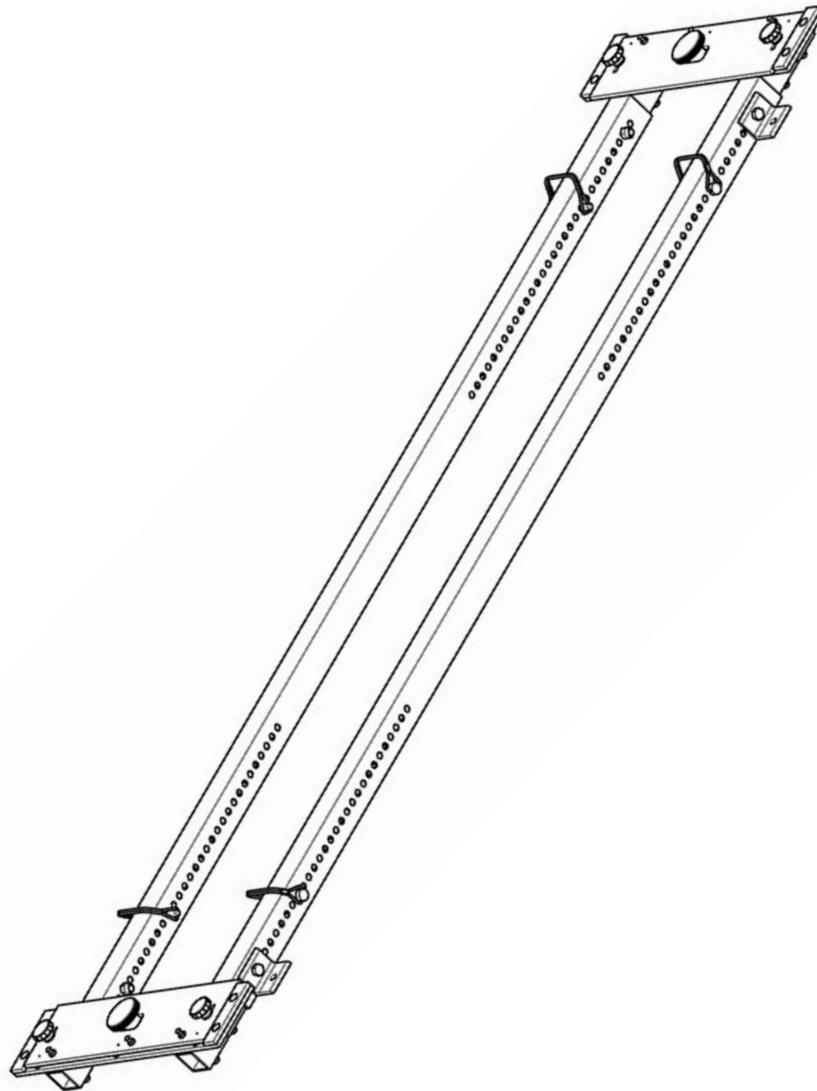


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NOTICE

GENERAL WARNINGS

The equipment covered in this manual should only be installed, used, and serviced by qualified personnel trained in proper work and safety procedures. This manual is intended to assist such trained individuals in the installation and use of this equipment and is not intended as a substitute for proper training and experience.

This document or any other information regarding this equipment is not intended to cover all of the possible situations which may be encountered while using the equipment described herein. Should specific situations arise which are not covered by the information provided, or should the user desire further details, the specifics should be directed to Wurtec, Inc.

Note: In the effort of continuous product improvement, Wurtec, Inc. reserves the right to modify the design and specifications of this product at any time without notice.

CAUTION

Failure to comply with the following guidelines can result in minor or moderate injury:

- Do not use the Plumb Line Drop Tool unless it has been securely anchored inside the hoistway.
- This tool accommodates a DBG range of 69" to 121".
- Ensure the hoistway is clear before installation.

EQUIPMENT DESCRIPTION & INTENDED USE

The Wurtec Plumb Line Drop Tool is a precision alignment device used during elevator rail installations. Constructed from lightweight aluminum and weighing just 25 pounds, it is designed for ease of handling while maintaining the strength and accuracy required on the jobsite. The tool is fully adjustable up to 121 inches to accommodate a range of hoistway sizes and features six plumb line attachment points for enhanced flexibility. Integrated measurement guides on both ends allow for fine-tuned adjustments, helping elevator professionals achieve accurate, reliable rail alignment with efficiency.

INSTALLATION / ASSEMBLY TOOLS REQUIRED

The following are the minimum required tools for installation:

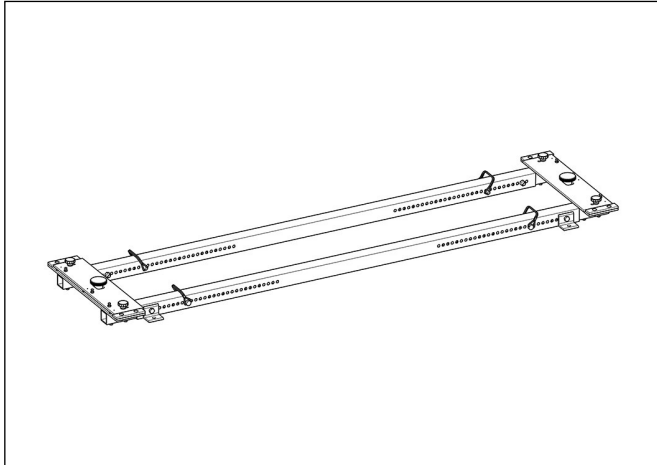
- Drill and bits
- Wood or concrete screws (for anchoring purposes)
- Level
- Plywood or other sturdy mounting material

PERSONAL PROTECTION EQUIPMENT (PPE) REQUIRED

The following PPE is recommended for installation:

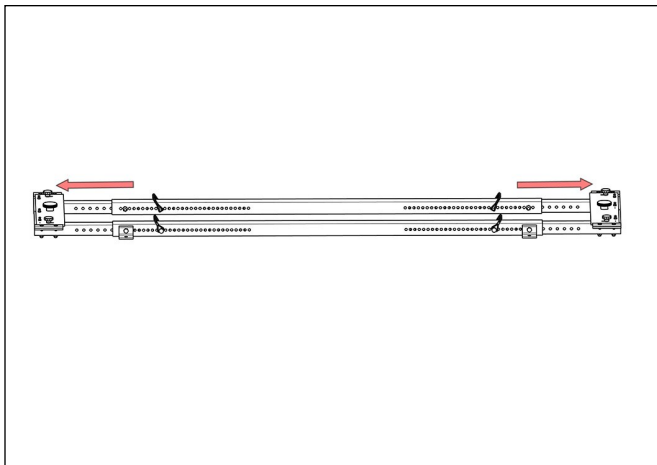
- Safety glasses
- Hard hat
- Abrasion-resistant gloves
- Steel toed boots
- Safety Vest
- Harness and attached lifeline

INSTALLATION INSTRUCTIONS



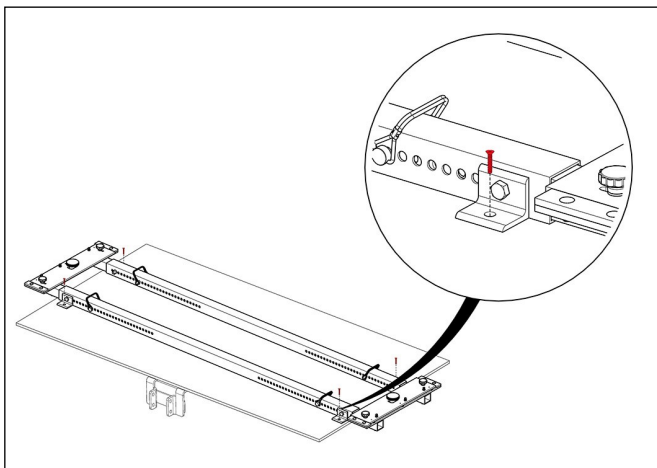
Step 1: Prepare the Work Area

- Ensure the hoistway is clear and safe for setup.
- Confirm the location where the tool will be installed aligns with the intended rail installation points.



Step 2: Adjust Tool Length

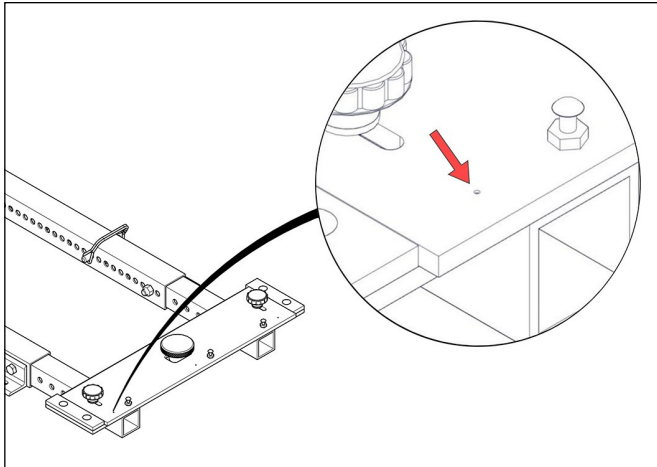
- On the outer slide tube, lift the wire loop up and over the head of the clevis pin. Once the loop is disengaged, remove the clevis pin from its opening. Repeat this process to release the wire loops on both slide tubes.
- Extend the Plumb Line Drop Tool to the required length (up to 121") to match the hoistway width.



Step 3: Anchor the Tool

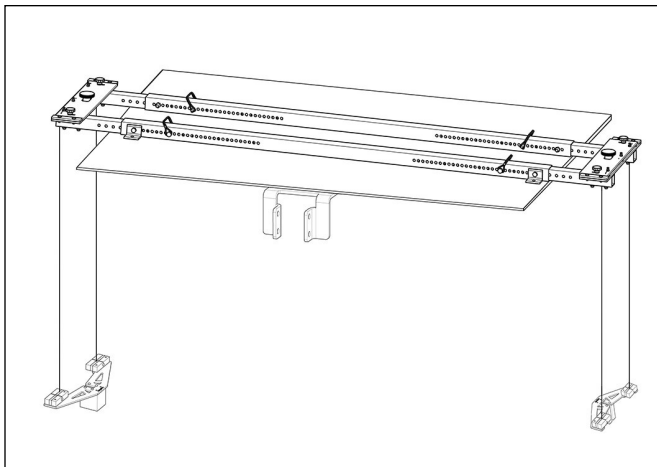
- Mount plywood or another suitable sturdy material securely on the sill bracket across the hoistway.
- Position the Plumb Line Drop Tool onto the mounted plywood, ensuring it sits properly.
- Anchor the tool by driving wood screws through the side brackets located on the outer slide tubes to hold it firmly in place.

INSTALLATION INSTRUCTIONS



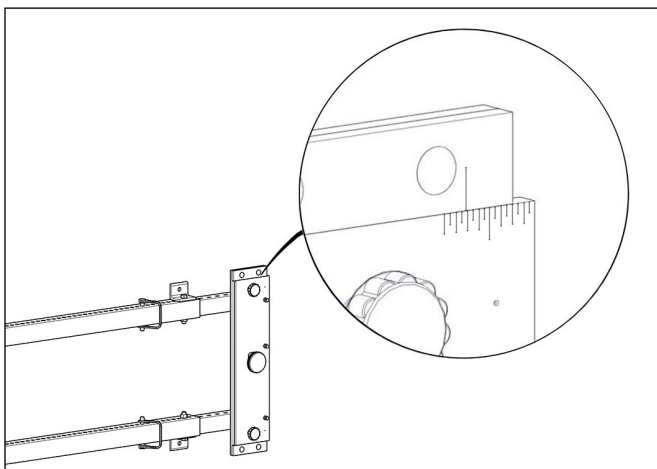
Step 4: Select Plumb Line Attachment Points

- Choose the appropriate attachment locations from the six available positions to match your rail layout and alignment needs.



Step 5: Attach Plumb Lines

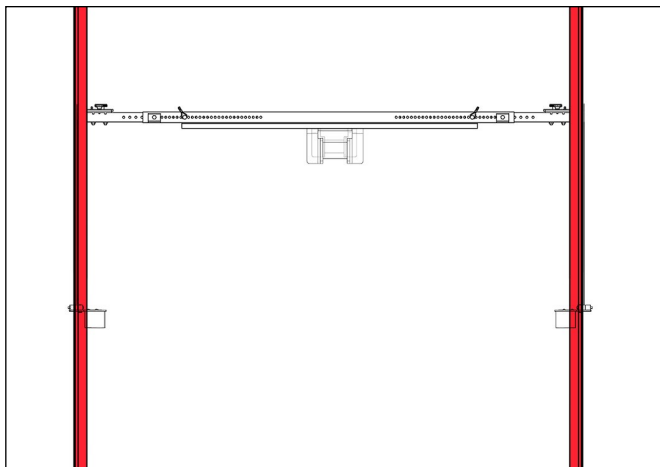
- Hang plumb lines from the selected points, ensuring they are free-hanging, untangled, and properly weighted to establish true vertical reference lines.
- To assist with rail alignment, rail alignment clamps can be hung from the plumb lines (parts 10-291 to 10-294).



Step 6: Verify Alignment

- Use the integrated measurement guides to fine-tune the tool's position and confirm that plumb lines align correctly with rail brackets or layout marks.

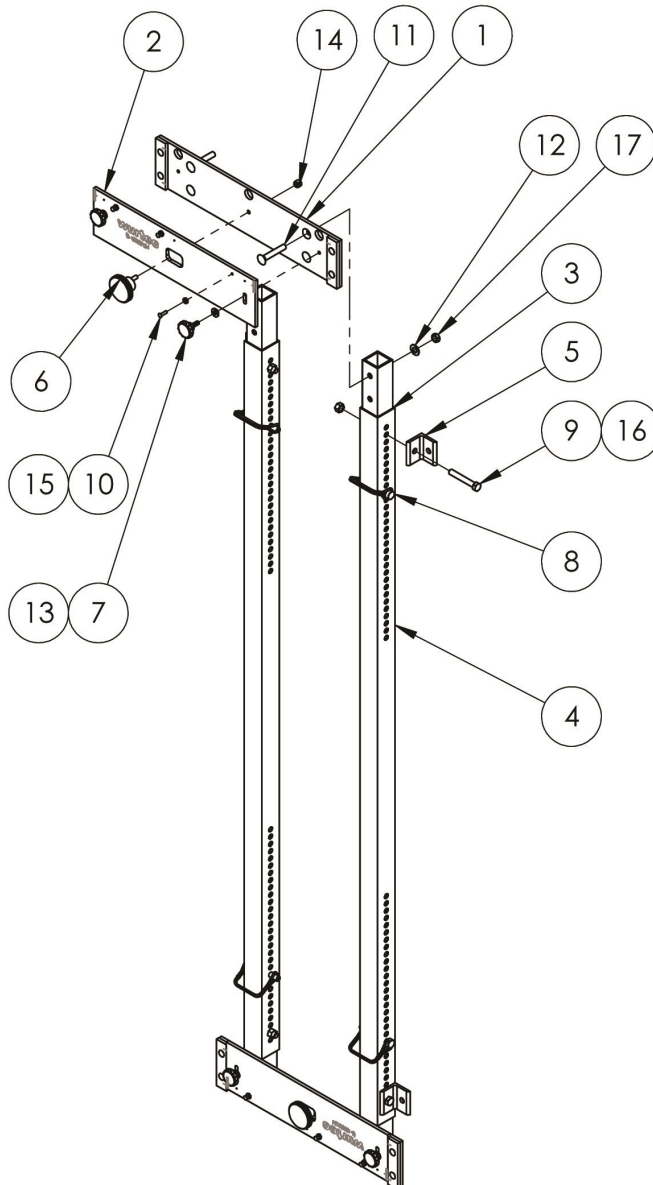
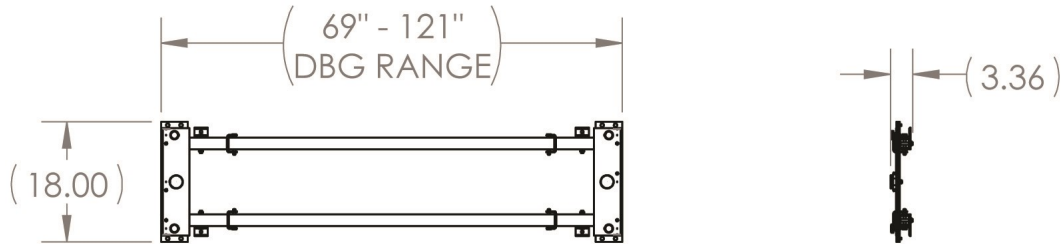
INSTALLATION INSTRUCTIONS



Step 7: Begin Rail Installation

- With plumb lines in place, use them as vertical guides for setting and securing elevator rails with consistent and accurate alignment.
- As installation progresses, move and reset the Plumb Line Drop Tool at other levels of the hoistway as needed.

BILL OF MATERIALS



BILL OF MATERIALS

Item	Qty	Part No.	Description	Size	Length
1	2	15-10083559	BASE PLATE ASSY	-	-
2	2	15-10080934	TOP PLATE	-	-
3	4	15-10080931	INNER SLIDE TUBE	1.5 SQ. X 0.125" WALL	34.5"
4	2	15-10080932	OUTER SLIDE TUBE	1.75" X 0.090" WALL	61"
5	4	15-10081789	MOUNTING ANGLE	-	-
6	2	15-10081348	SCREW KNOB	-	-
7	4	10081544	BLACK PLASTIC KNOB 1/4-20 X .75" STUD	-	-
8	4	10065912	WIRE-LOCK CLEVIS PINSQUARE WITH LOOP, 3/8" DIAMETER, 2-1/8" USABLE LENGTH MCMaster CARR 98416A019	-	-
9	4	12113	HEX HEAD CAP SCREW	3/8-16	2 1/2 IN
10	6	94025	BUTTON HEAD SCREW	8-32	5/8 IN
11	8	10065005-110	FLAT SOCKET CAP SCREW	3/8-16	2 1/4 IN
12	8	33082	FLATWASHER	3/8"	-
13	4	33078	FLATWASHER	1/4"	-
14	2	0169776	NYLON INSERT LOCK NUT	1/4-20	-
15	6	36024	MACHINE SCREW NUT	8-32	-
16	4	36306	HEX NUT	3/8-16	-
17	8	90566A031	NYLON INSERT LOCK NUT	3/8-16	-