

ROPE TENSION GAUGE

Part No. 30-650

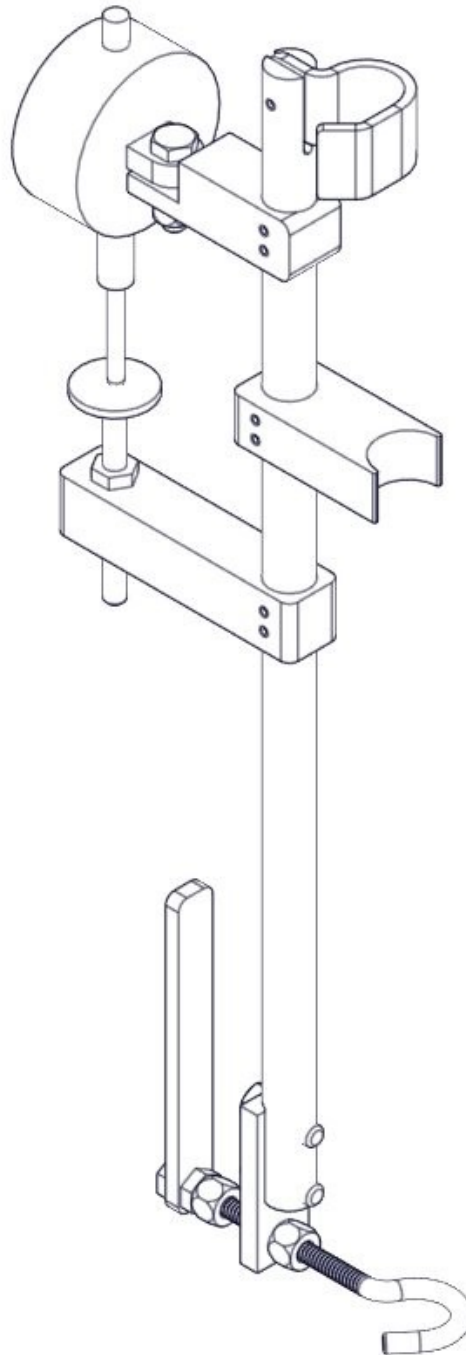


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NOTICE

ABOUT THIS MANUAL

- 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 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 interest of continuous product improvement, Wurtec, Inc. reserves the right to modify the design and specifications of this product at any time without notice.

EQUIPMENT DESCRIPTION AND INTENDED USE

The **Wurtec Rope Tension Gauge** is used to measure tension in ropes using three contact points and a dial gauge. The dial gauge measures the deflection in the vertical rod of the tension gauge, resulting from its contact with the rope. The tension gauge can be used to quantify, check, modify, and/or correct tension in ropes to the desired value(s).

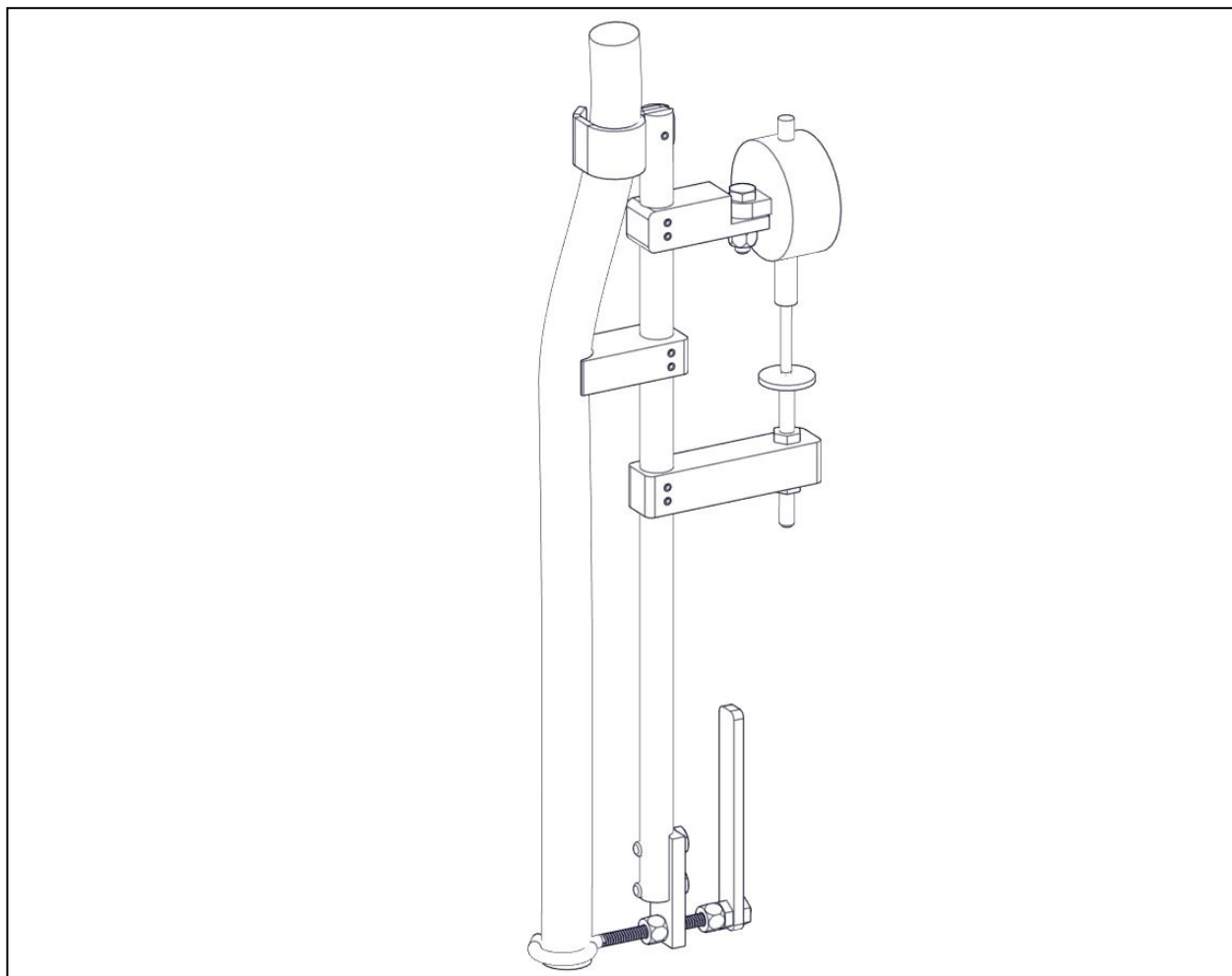


Image 01. Rope Tension Gauge In Context

SPECIFICATIONS

This device is designed to be used on ropes of diameter less than or equal to 7/8" .

INSTALLATION / ASSEMBLY TOOLS REQUIRED

- 1/4" wrench

INSTALLATION & OPERATION

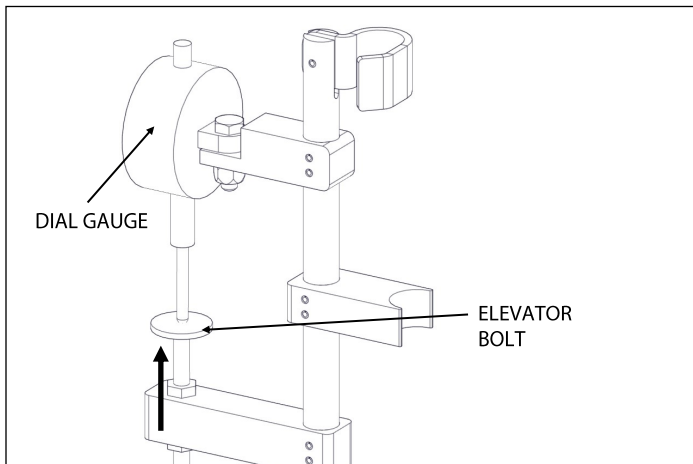


Image 02. Step 1

Step 1:

- Make contact between the elevator bolt and the tip of the dial gauge. Use the nuts to control the bolt's distance to the dial gauge. This will create a pre-deflection on the dial gauge to facilitate the recording of the measurements.
- Record the pre-deflection obtained (this value can be randomly selected). Keep the same pre-deflection throughout the entire time this device is used.

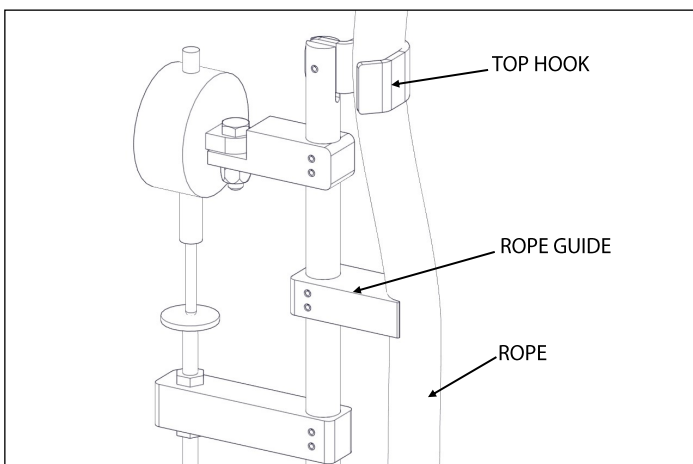


Image 03. Step 2

Step 2:

- Locate the wire rope whose tension needs to be measured/assessed.
- Set the rope through the top hook and the rope guide as shown on the left.

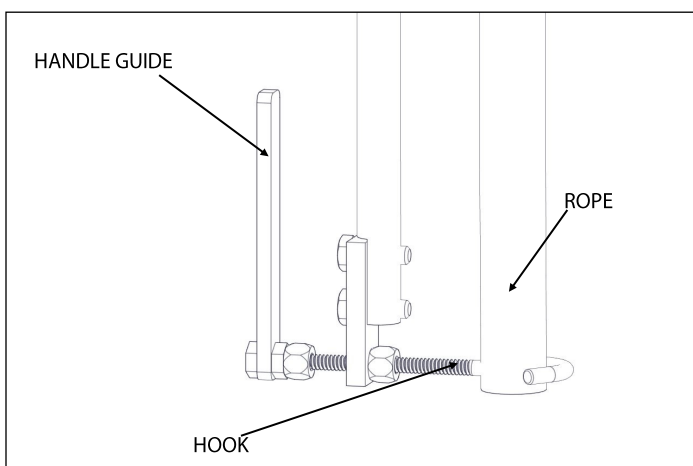
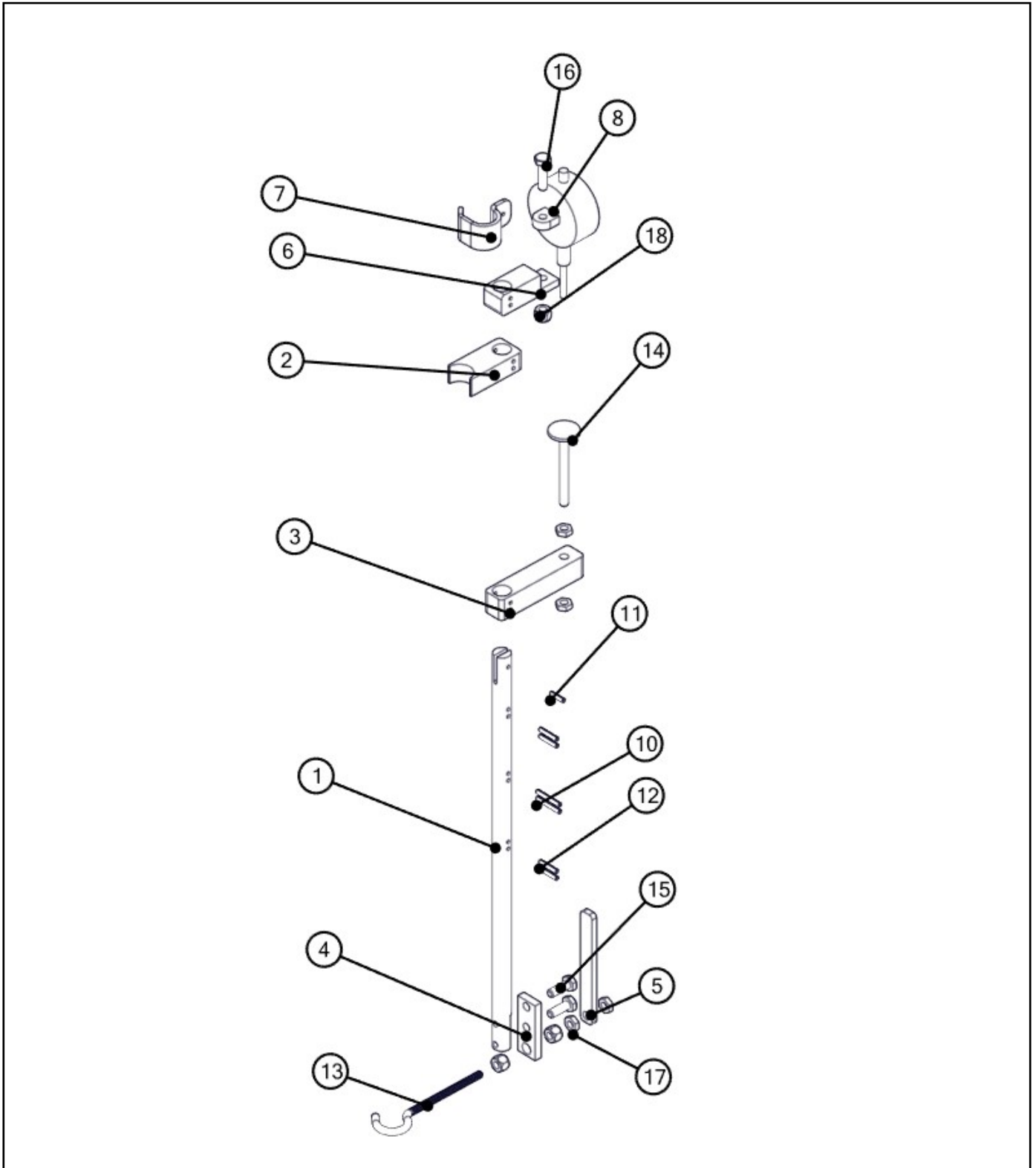


Image 03. Step 3

Step 3:

- Make sure the guide on the handle shown on the left is stiff enough for proper and easy use of the handle.
- Make sure that the threaded rod and hook are free to rotate.
- Pull tightly on the rope with the handle and set that position using the nylon lock nuts of the hook.
- Keep that same position throughout the entire time this device is used. Use the nyloc nuts to lock the position.
- The difference between the pre-deflection and the value obtained after this operation is the deflection/tension of the rope.

BILL OF MATERIAL - EXPLODED VIEW



BILL OF MATERIALS - SPARE / WEAR

Item	Qty	Part No	Description	Size	Length	Spare/Wear
1	1	30-10031863	Rope Tension Gauge Rod	-	-	
2	1	30-10031864	Rope Guide	-	-	
3	1	30-10031879	Bolt Mount	-	-	
4	1	30-10032003	Hook Mount	-	-	
5	1	30-10032004	Guide	-	-	
6	1	30-10040677	Gauge Mount	-	-	
7	1	30-10045562	Fab Hook	-	-	
8	1	30-10049360	1in Dial Indicator	-	-	Spare
9	1	10046583	Storage Case			
10	2	0165860	Slotted Spring Pin	1/8"	1"	
11	1	0165850	Slotted Spring Pin	1/8"	9/16"	
12	4	0165855	Slotted Spring Pin	1/8"	3/4"	
13	1	9492T13	1/4-20 Screw in Hook	-	-	
14	1	92670A635	1/4-20 X 2-3/4" Elevator Bolt	-	-	
15	2	1111003	Hex Head Cap Screw	1/4"-20	3/4"	
16	1	1111005	Hex Head Cap Screw	1/4"-20	1"	
17	4	36202	Jam Nut	1/4"-20	-	
18	3	37018	Nylon Insert Lock Nut	1/4"-20	-	