



# CR36

## User Guide

1602022(230904)

# 1. Overview

Muzata CR36 is a great choice for building your cable railing project. With our patent invisible flattened tail design of Muzata CR36 and customized socket wrench Muzata CT16, you can hide the ugly swaged end inside the wood post to get a neat appearance and get enough tension to pass the 4" sphere test to meet code compliance. It's suitable for 2"x2" metal posts and 4"x4" wood posts and applicable for both level and angled sections.

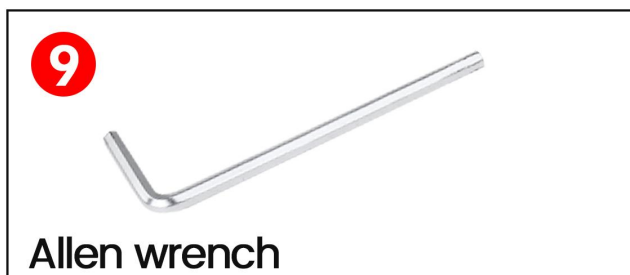
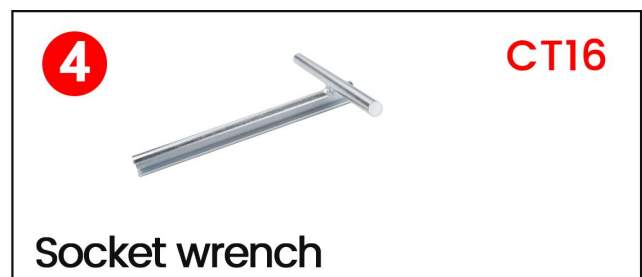
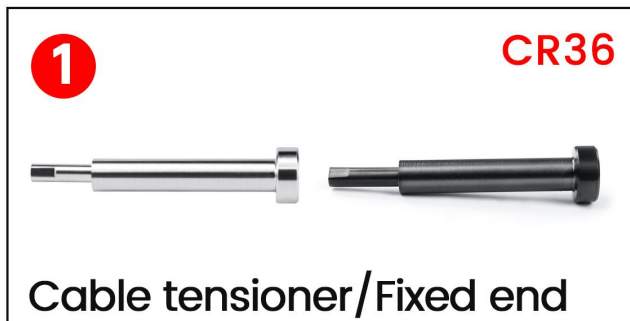
# 2. Specifications



<b>Model</b>	<b>Material</b>	<b>Size for wire rope</b>	<b>Surface treatment</b>
CR36	T316 Stainless Steel	1/8"	Natural/Black

### 3. Items related(Metal system)

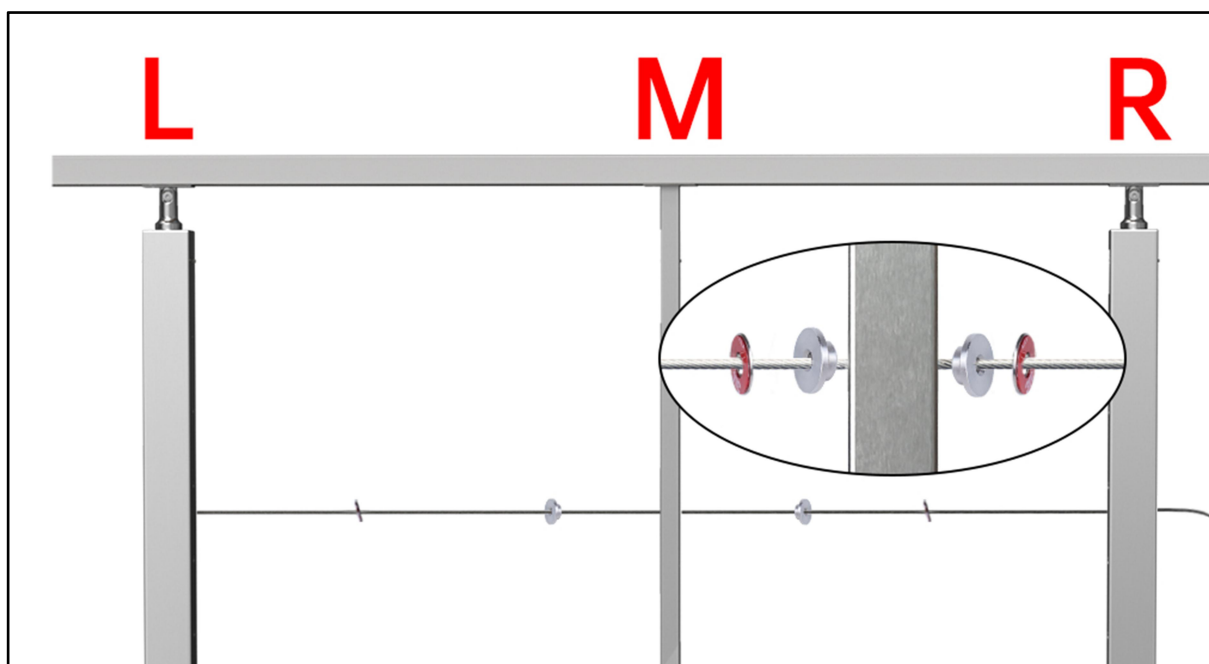
Listed below are all of the accessories and tools related to the Muzata CR36. Please note that not all items are essential. Some may not be included in your package. If you need them, you may need to purchase them separately. Please select the appropriate color of the product on the color design of your project.



## 4. Installation steps

We will install the tensioner on the right end post as an example. Actually, you can install it on either side according to your need.

### 4.1 For level railing



**Step 1** – Pass the cable ② from the right post to the left post, put in adhesive washer ③ and level protector sleeves ⑤ on both sides of all intermediate posts.

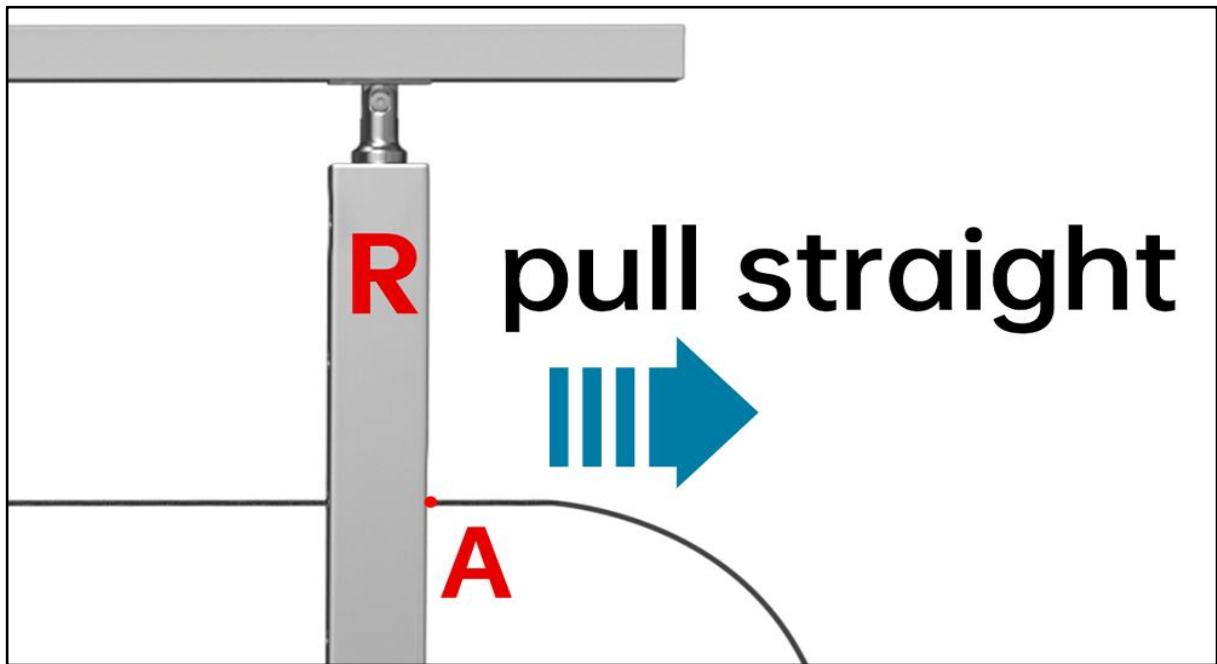




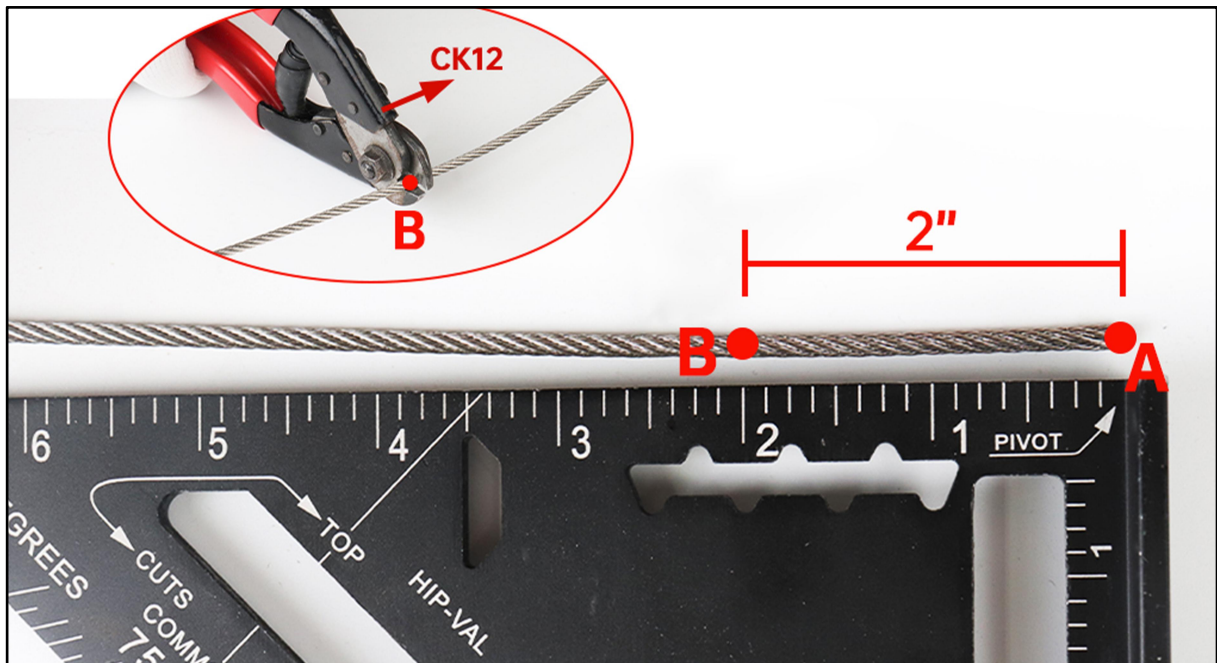
**Step 2** - Swage the fixed end **1** with the hydraulic crimper **8**.



**Step 3** - Install fixed end **1** to the left end posts.



**Step 4** - Pull the cable ② against the right end post, mark point A from the outside, and cut cable ② on point A with cable cutter ⑧.



**Step 5** - Mark and cut at point B with cable cutter ⑧, which is 2" away from point A.

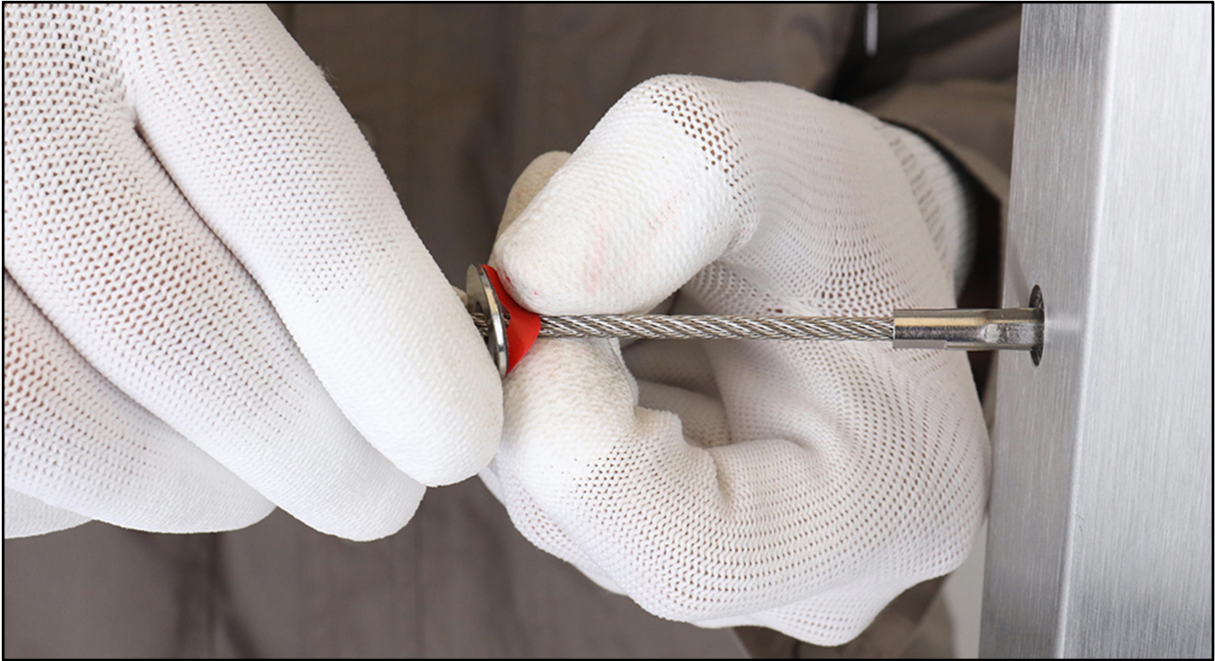


**Step 6** - Swage tensioner **1** with hydraulic crimper **8**.



**Step 7** - Tighten the tensioner **1** with the Allen wrench **9** and socket wrench **4** on the right end post.



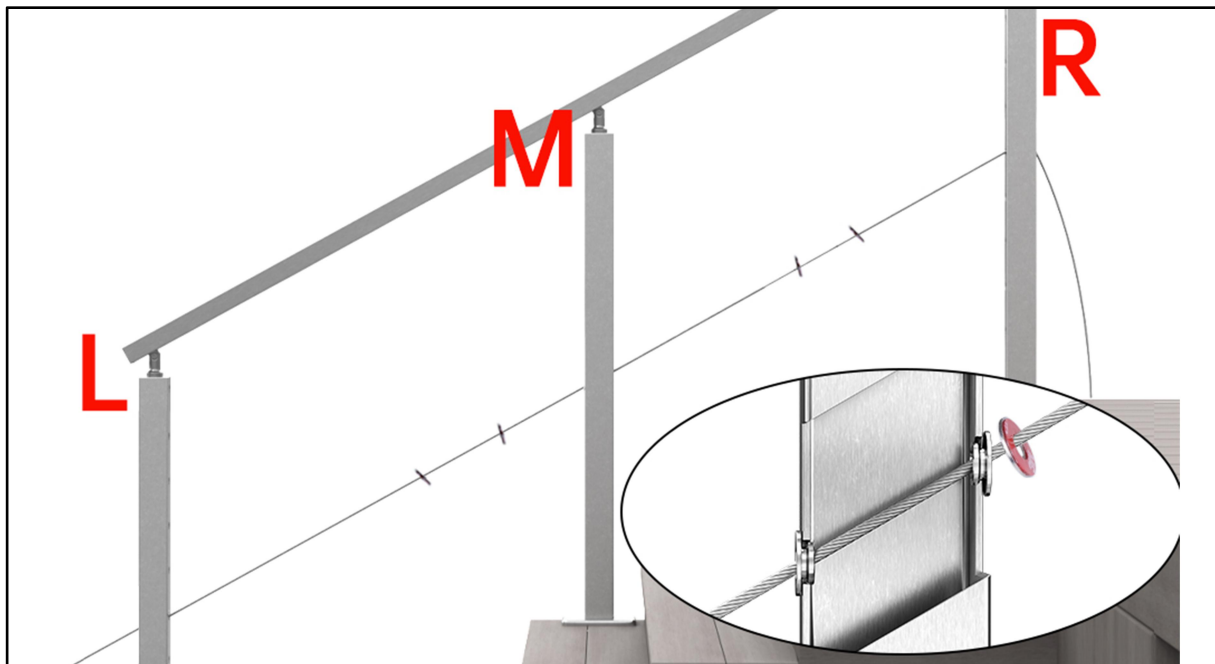


**Step 8** - Install adhesive washers **3** and level protector sleeves **5**.



**Step 9** - Follow the sequence to install other cable runs.

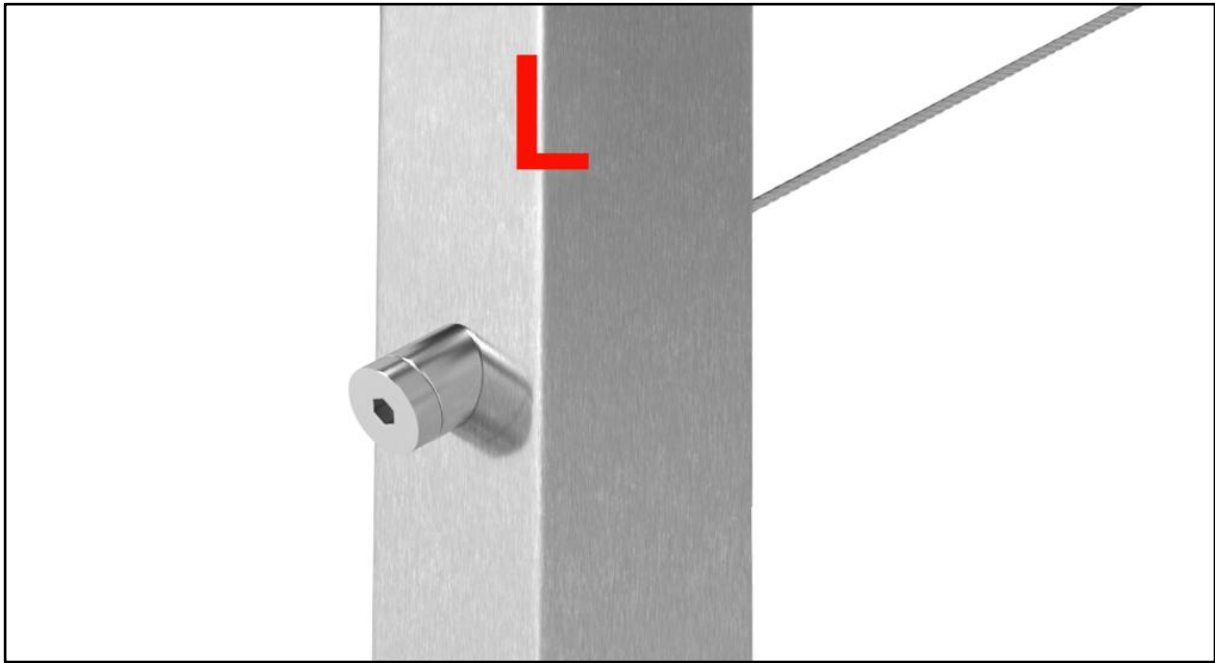
## 4.2 For angle railing



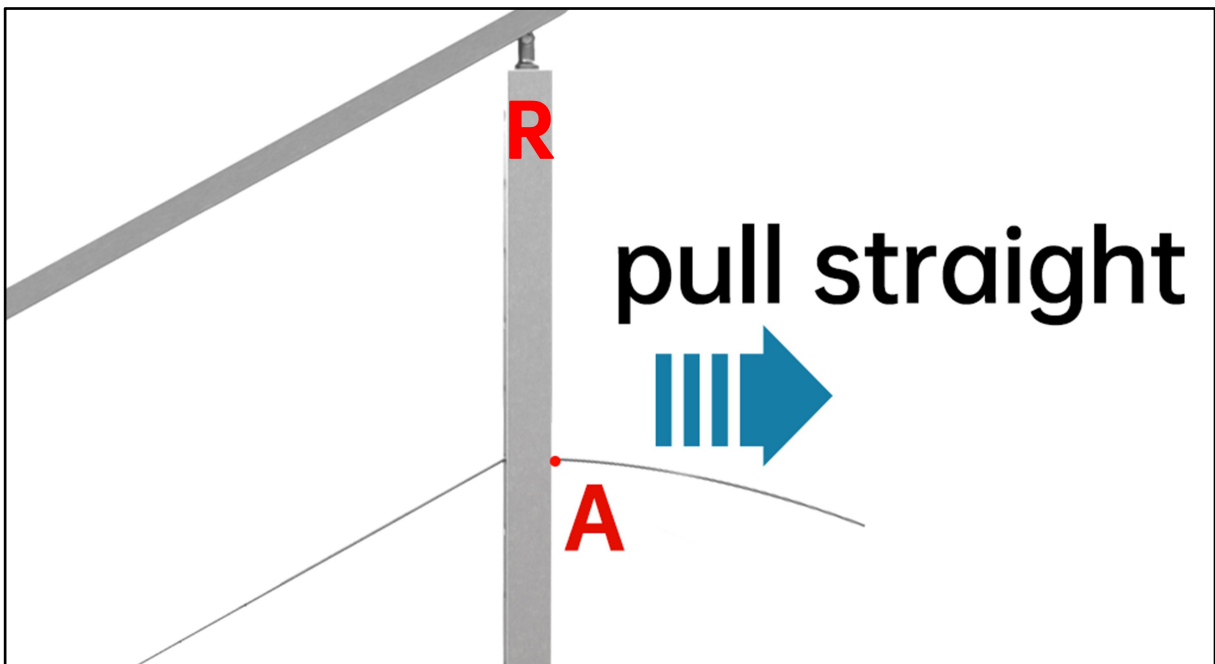
**Step 1** - Pass the cable ② from the right post to the left post, put in adhesive washer ③ and angle protector sleeves ⑥ on both sides of all intermediate posts.



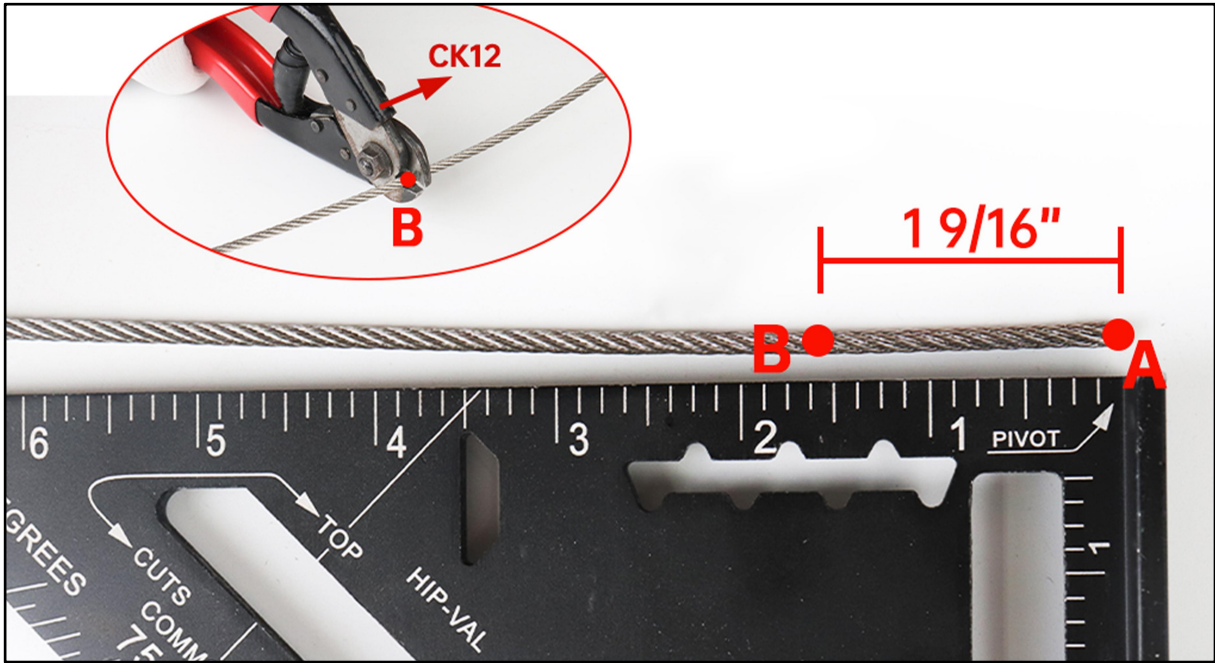
**Step 2** - Put angle washer ⑦ into the fixed end ① before swaging with hydraulic crimper ⑧.



**Step 3** - Install fixed end ① to the left end posts.



**Step 4** - Pull the cable ② against the right end post, mark point A from the outside, and cut cable ② on point A with cable cutter ⑧.

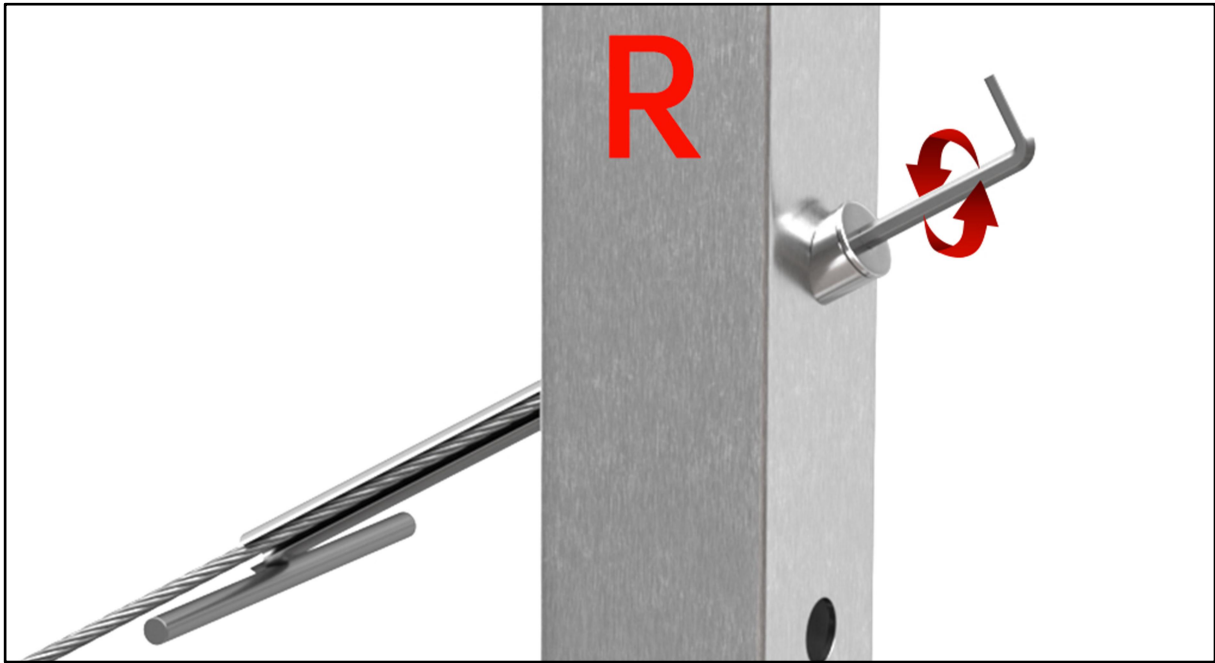


**Step 5** - Mark and cut at B with cable cutter **8**, which is 1 9/16" away from point A.



**Step 6** - Swage tensioner **1** with hydraulic crimper **8**.



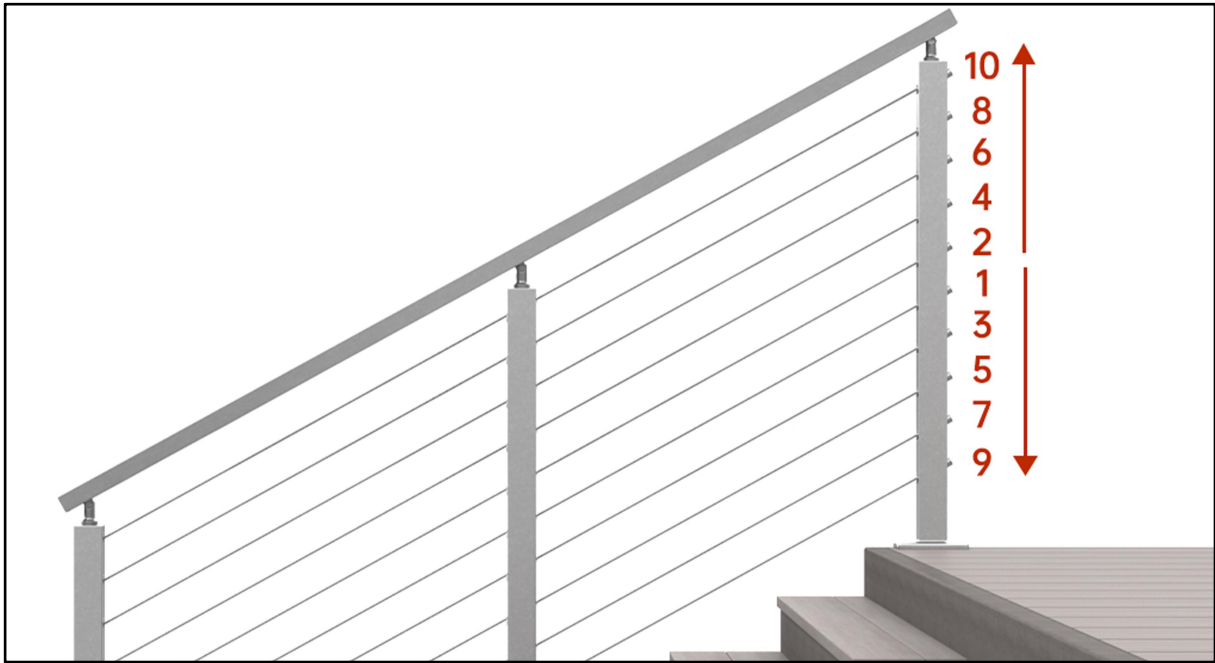


**Step 7** - Install the angle washer and tighten the tensioner ① with the Allen wrench ⑨ and socket wrench ④ on the right end post.



**Step 8** - Install adhesive washers ③ and angle protector sleeves ⑥.

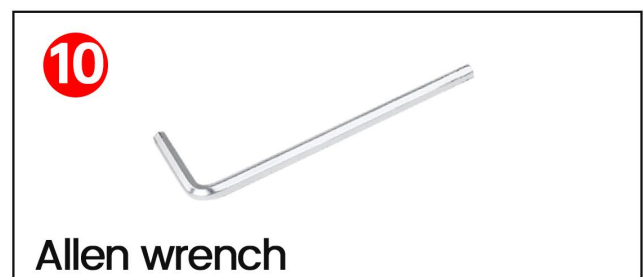
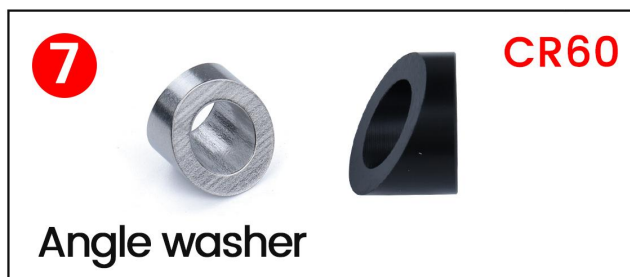
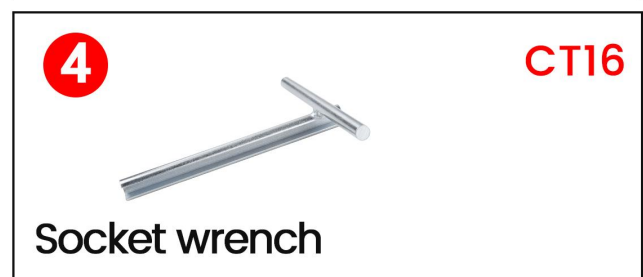
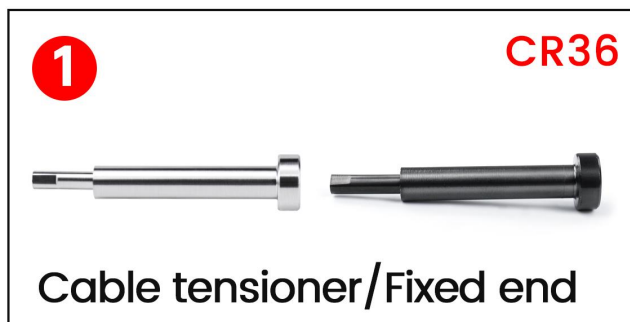




**Step 9** – Follow the sequence to install other cable runs.

# 5. Items related(Wood system)

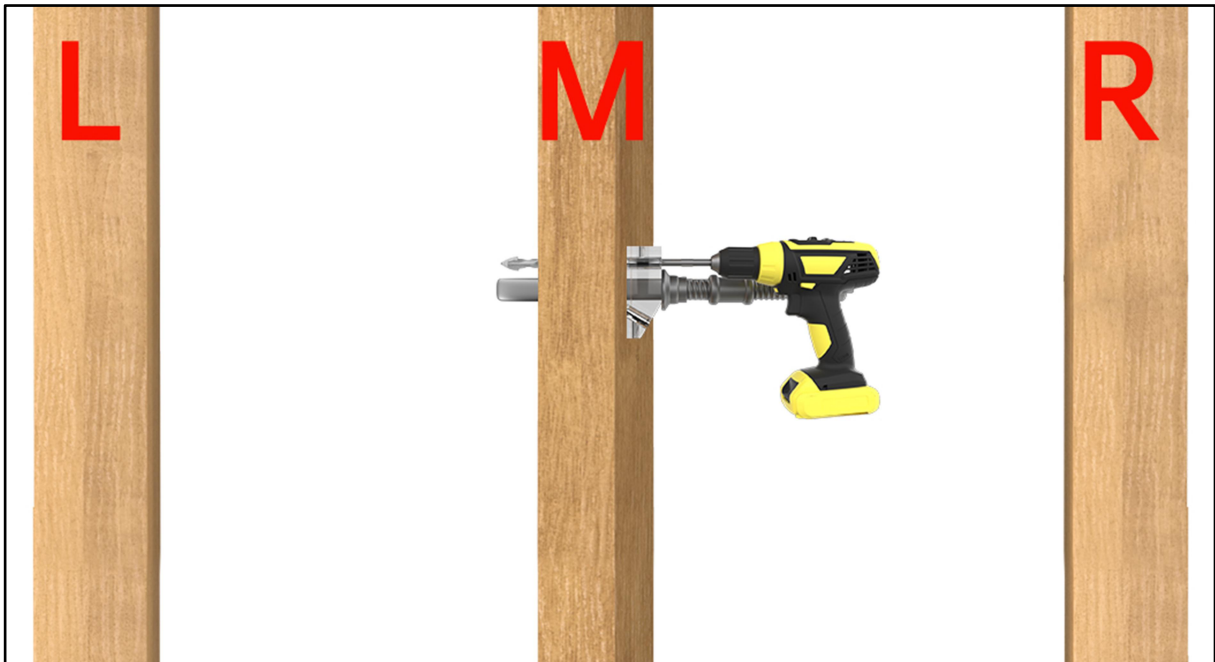
Listed below are all of the accessories and tools related to the Muzata CR36. Please note that not all items are essential. Some may not be included in your package. If you need them, you may need to purchase them separately. Please select the appropriate color of the product on the color design of your project.



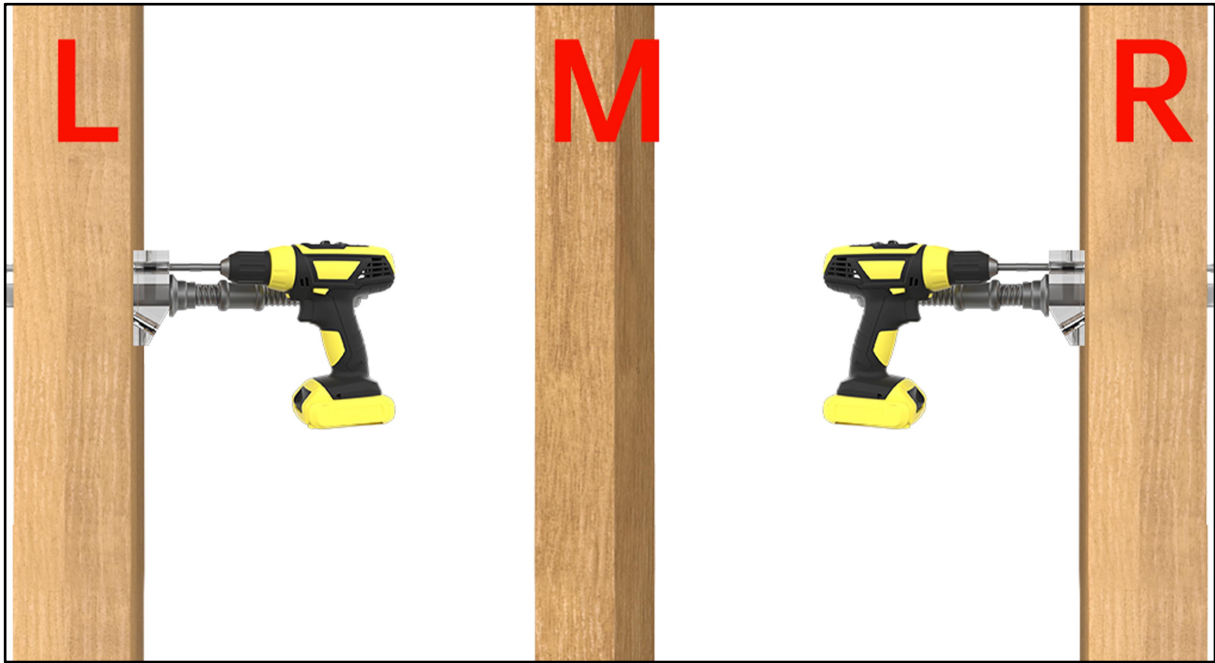
## 6. Installation steps

We will install the tensioner on right end post as an example. Acturally you can install it on either side according to your need.

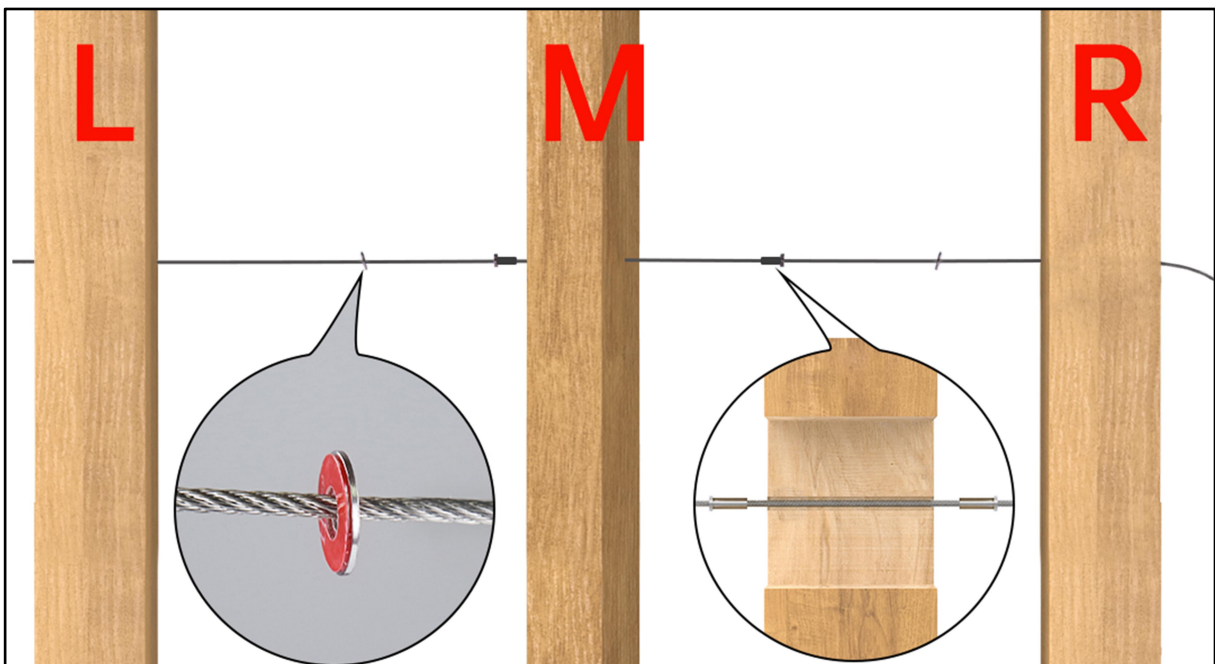
### 6.1 For level railing



**Step 1** – Locate hole position with drill guide ⑧; drill through holes on the intermediate posts with a 9/32" drill bit.



**Step 2** - Locate hole positions, drill through holes with drill guide ⑧ on the right post and the left post with a 13/32" drill bit.



**Step 3** - While pass the cable ② through from right to left posts, put in adhesive washer ③ for end posts and level protector sleeves ⑤ for intermediate posts.

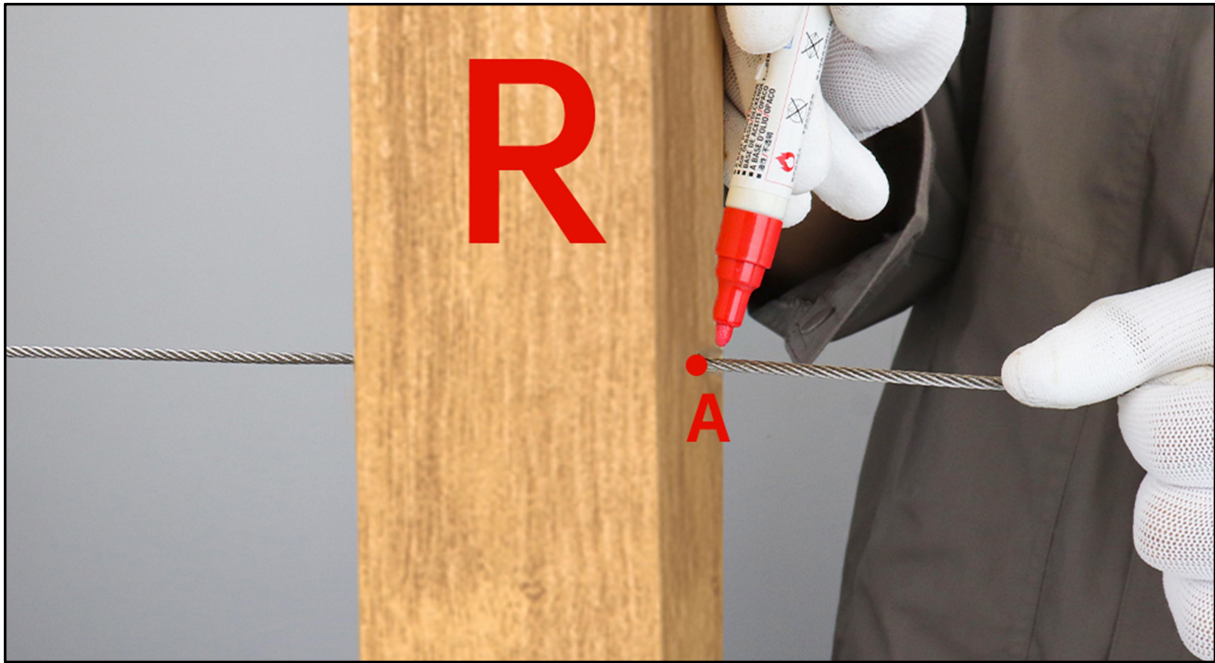


**Step 4** - Swage the fixed end **1** with the hydraulic crimper **9**.

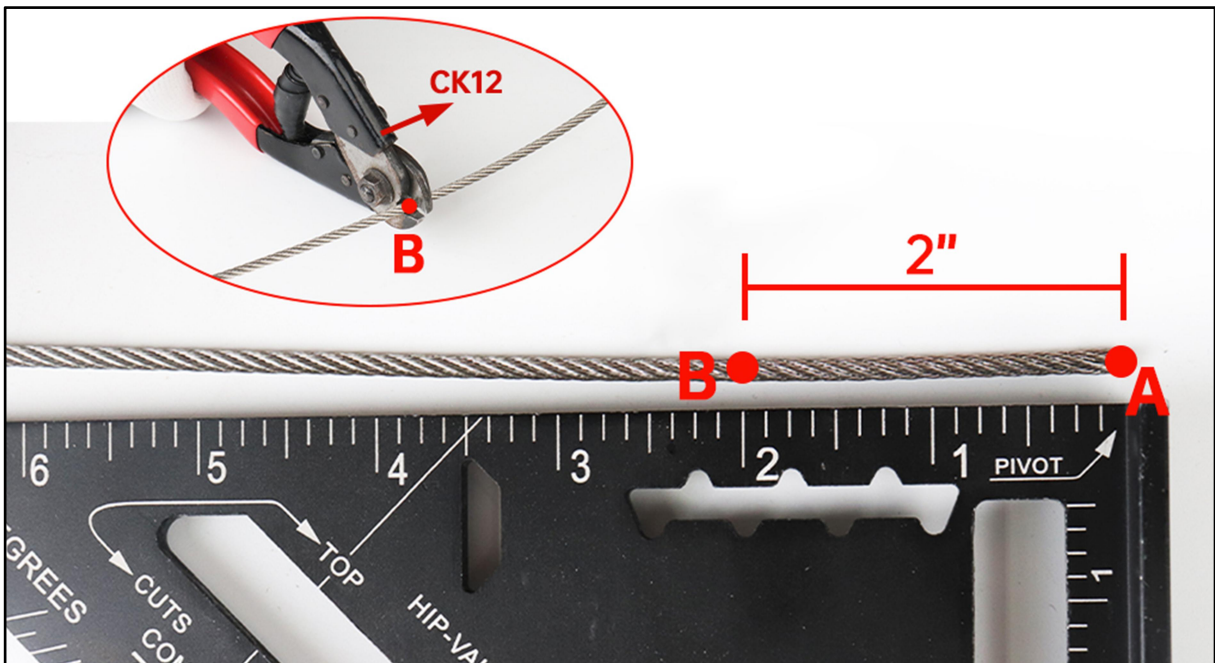


**Step 5** - Install the fixed end **1** to the left posts.





**Step 6** - Pull the cable ② against the right end post, mark point A from the outside and cut cable ② on point A with cable cutter ⑨.



**Step 7** - Mark and cut at point B, which is 2" away from point A with cable cutter ⑨.



**Step 8** – Swage tensioner **1** with the hydraulic crimper **9**.



**Step 9** – Tighten the tensioner **1** with the Allen wrench **10** and socket wrench **4** on the right post.





**Step 10** - Install the adhesive washers **3** and level protector sleeves **5**.



**Step 11** - Follow the sequence to install other cable runs.



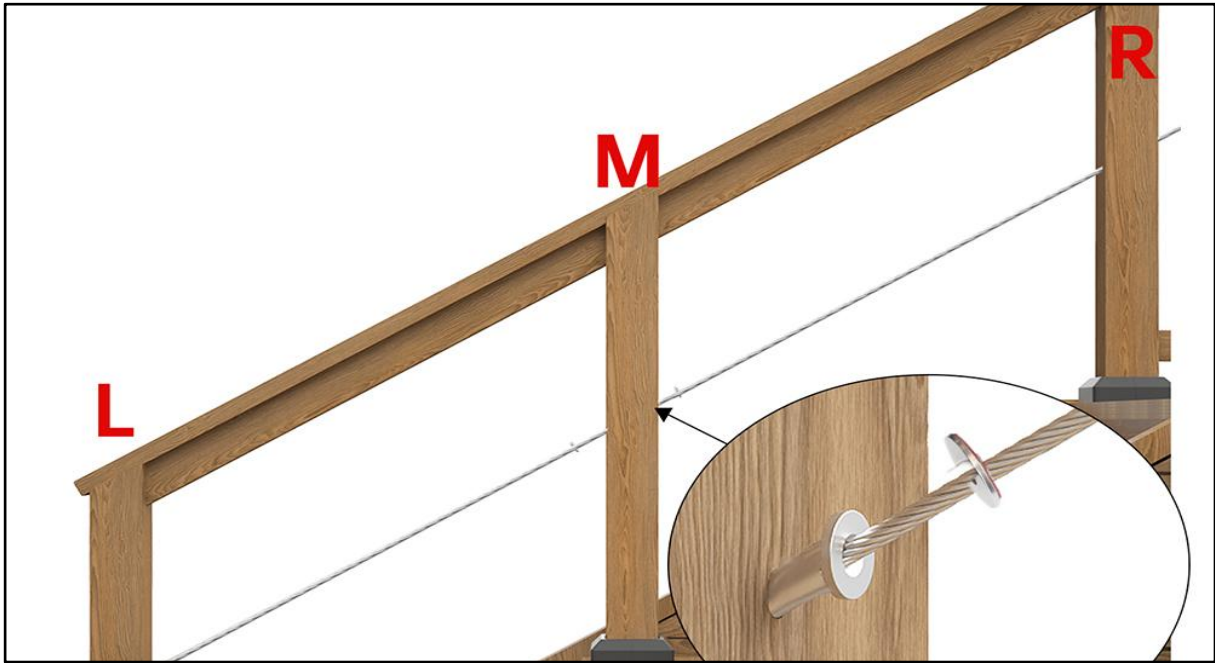
## 6.2 For angle railing



**Step 1** - Locate hole positions and drill 30 degrees through holes with drill guide ⑧ on all intermediate posts with a 5/16" drill bit.



**Step 2** - Drill 30 degrees with drill guide ⑧ on the right and left post with a 13/32" drill bit.



**Step 3** - Put the adhesive washers **3** into the cable and pull the cable through all intermediates posts and angle protector sleeves **6**.



**Step 4** - Put angle washer **7** into the fixed end **1** before swaging with the hydraulic crimper **9**.

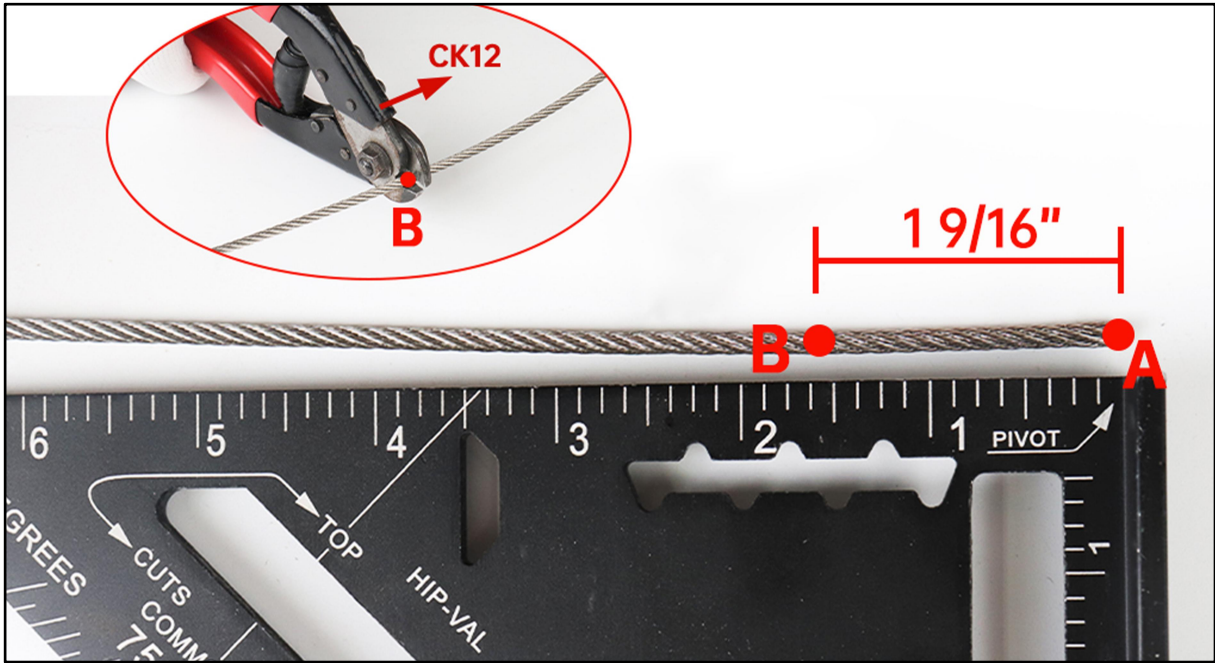


**Step 5** - Install fixed end **1** and angle washer **7** to the left end post.



**Step 6** - Pull the cable **2** against the right end post, mark point A from the outside and cut cable **2** on point A with cable cutter **9**.





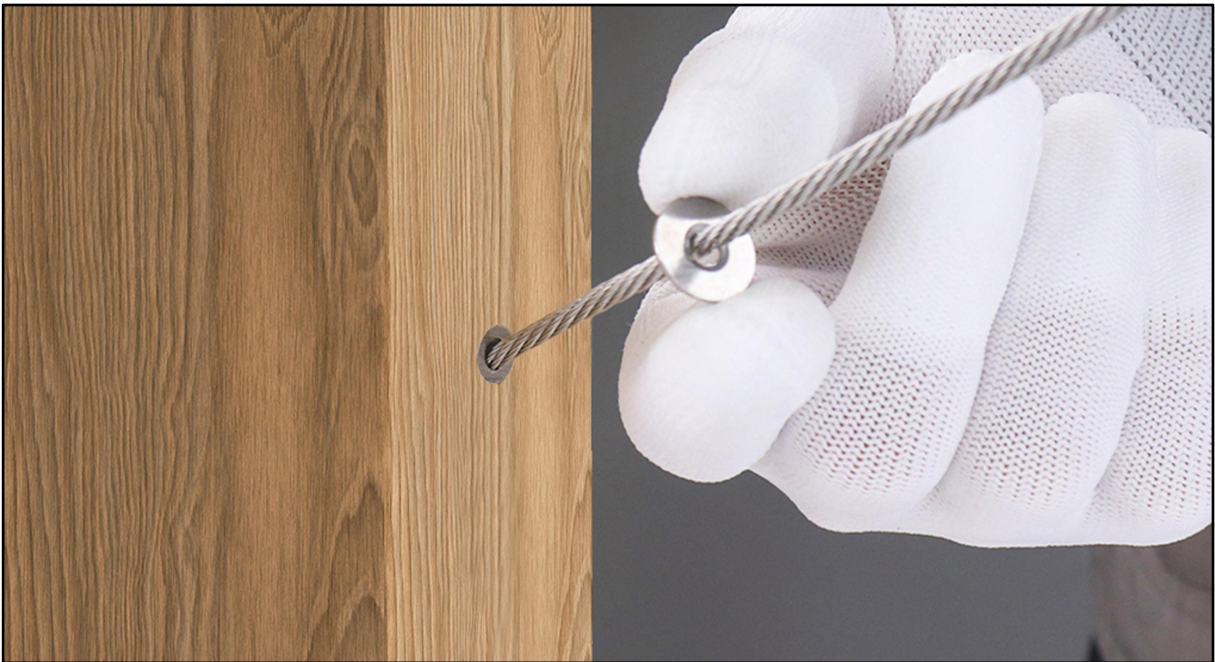
**Step 7** – Mark and cut at B with the cable cutter **9**, which is  $1 \frac{9}{16}$ " away from point A.



**Step 8** – Swage tensioner **1** with the hydraulic crimper **9**.

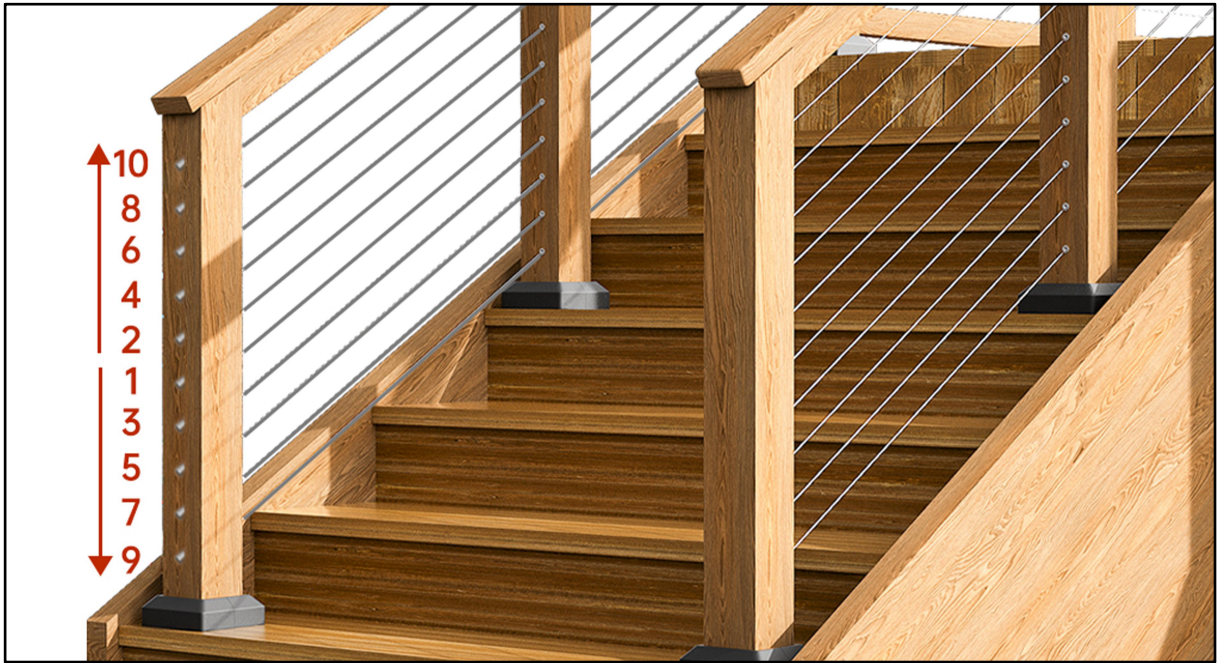


**Step 9** - Install the angle washer **7**, tighten the tensioner **1** with the Allen wrench **10** and socket wrench **4** on the right end post.



**Step 10** - Install adhesive washers **3** and angle protector sleeves **6**.





**Step 11** – Follow the sequence to install other cable runs.

Please note that installation videos are available on our product pages for further details if needed.

## 7. Tips

- (1) Ensure that your posts and handrail are properly installed before your start cable installation.
- (2) You might have to buy a few more materials than expected in case some materials might not be reusable after operation mistakes.
- (3) The overall height of the railing (includes handrail) should be equal or higher than 36" to meet residential building codes of most states.
- (4) 3" cable spacing and 200 lbs tension on each cable line is recommended in order to pass the 4" sphere test (required by some states). You can buy a tension gauge online or from local stores.

## 8. Free design service

We offer custom cable railing design service for free. If you are a beginner or not sure about how to do it, please reach us. Our experts can do all the planning, designing and budget work for you without extra charge.

## 9. About Muzata

MUZATA has helped millions of families with their cable railing projects during the past years. We believe that home renovation should be easy and affordable. So we work with every effort to provide quality products and professional service, to make Muzata a reliable brand.

---

---

Follow us



@Muzata railing



@muzata\_official



@muzata\_official



@muzata\_official