

WHAT PARTS DO WE NEED TO USE THE MEASUREMENT COPIER CORRECTLY

The -MEASURING COPIER- is the most suitable tool to "manufacture" a -rigid semi axle for independent wheels- to the exact measure, completely straight and horizontal.

Before using the measurement copier it is necessary to paste the four silicone drops included with the tool. Clean the four corners with alcohol so that they stick well.



We will also need both two $\varnothing 2.38$ mm (3/32") axles -**A**- and -**B**-, two stoppers, and one 1 or 2 mm length brass, steel or plastic spacer.

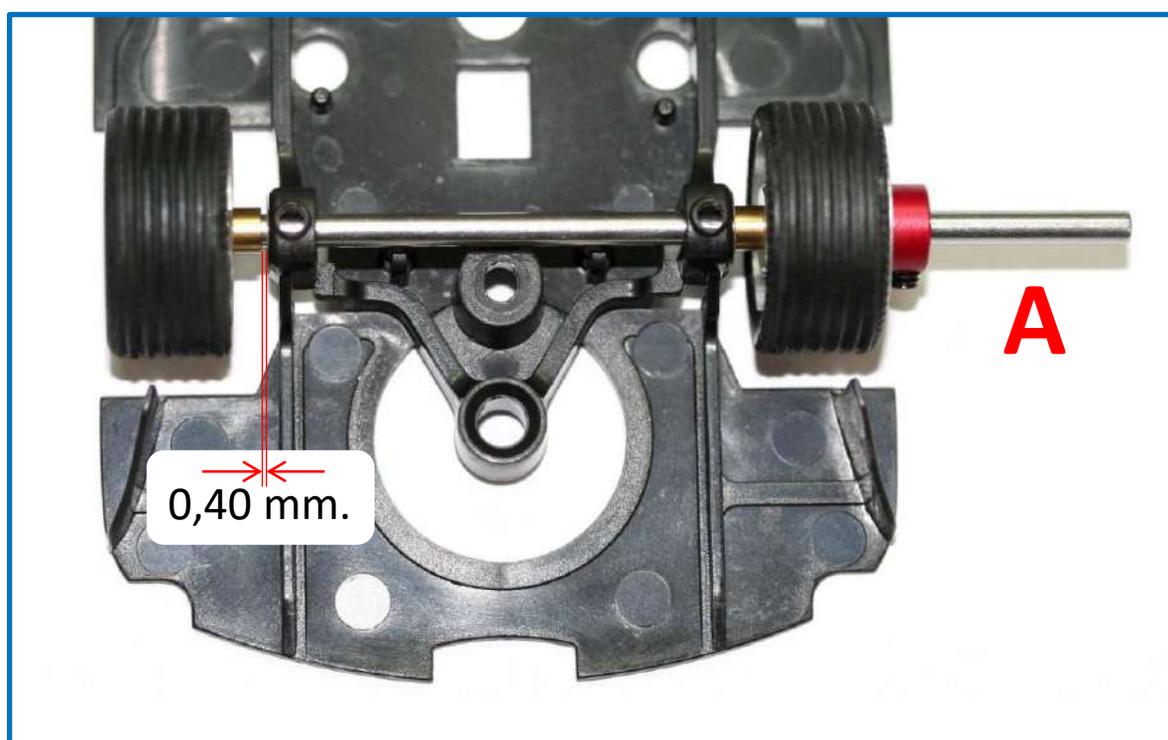
This material will always be necessary for the "manufacturing" of any -rigid semi-axle for independent wheels-.



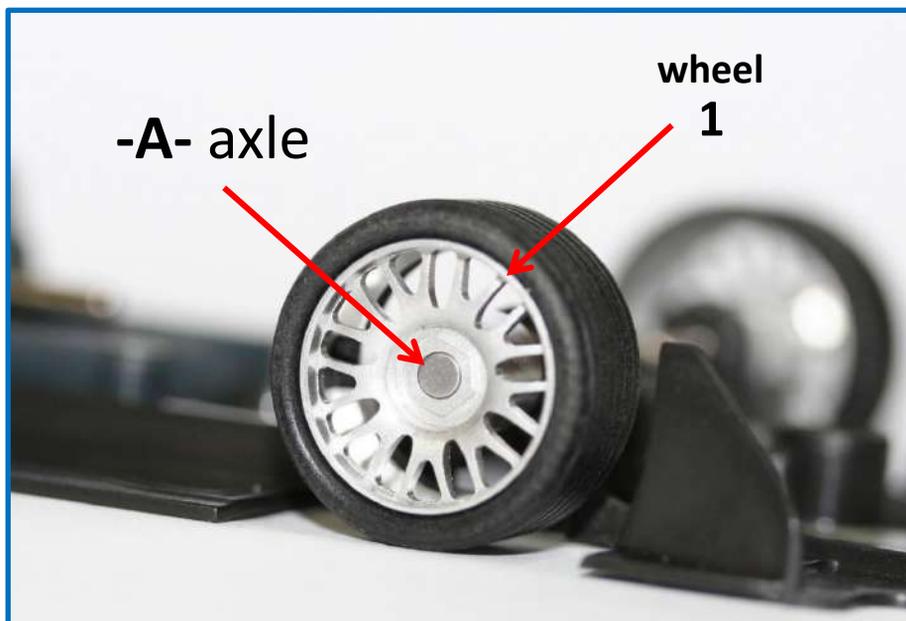
We will use an Alfa Romeo DTM model from the Slot.it as example and using two $\varnothing 15.9$ mm BBS rims. x 8.5mm wide -with their respective Allen grubs-, a set of grip -0- tyres, two 2 mm brass spacers long and two standard 0.10 mm steel spacers of thickness.



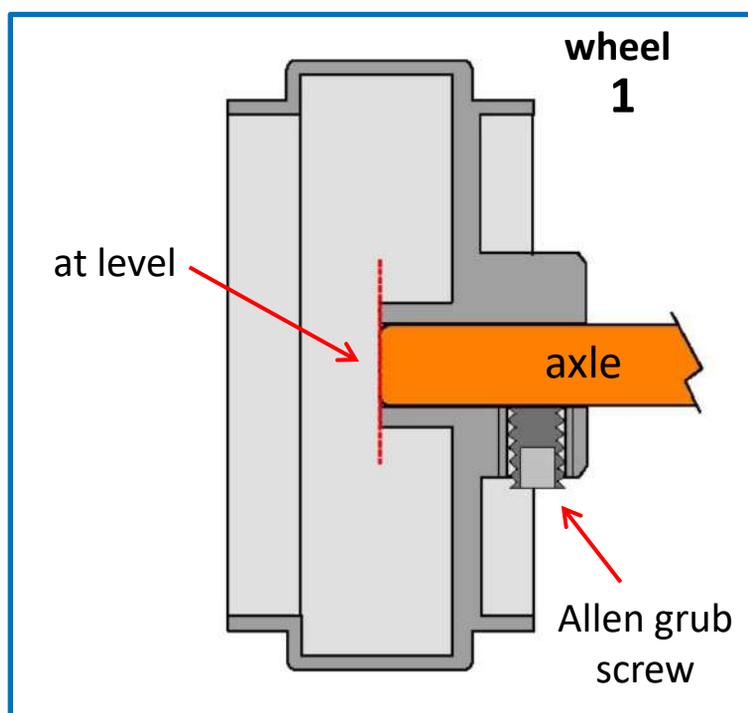
Assembly the front axle as usual, but using the **-A-** axle (MASTER or BASSIS AXLE) as indicated in the picture below. Pay attention to leave a side clearance between approx. 0.20 and 0.40mm., or the one that you usually use in your set up.

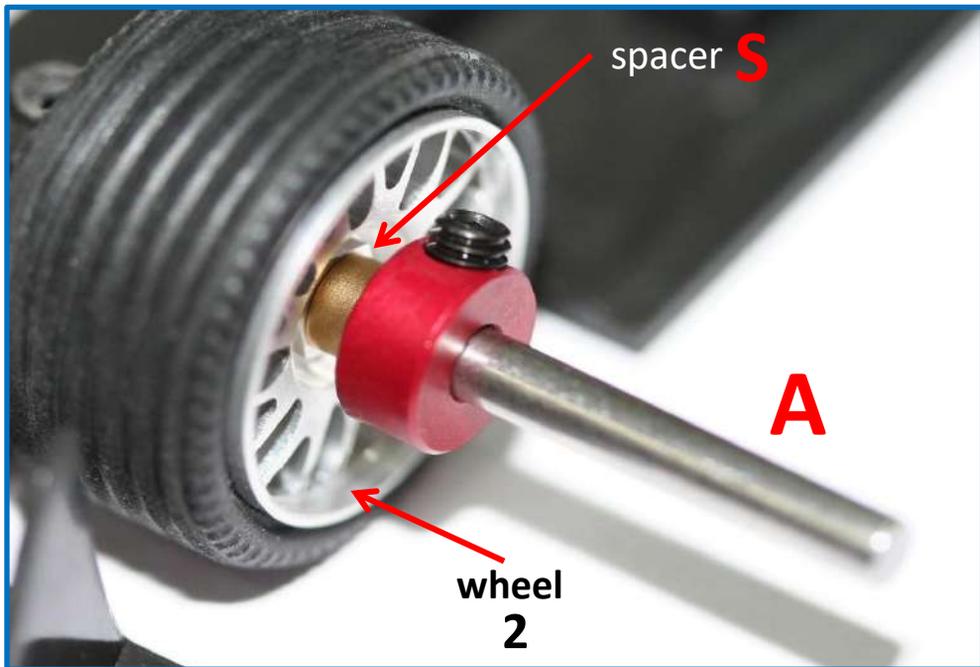


Remember that the spacers and washers used here are an example and that each set up will require the use of different types and sizes spacers between the rim and the axle plastic support.

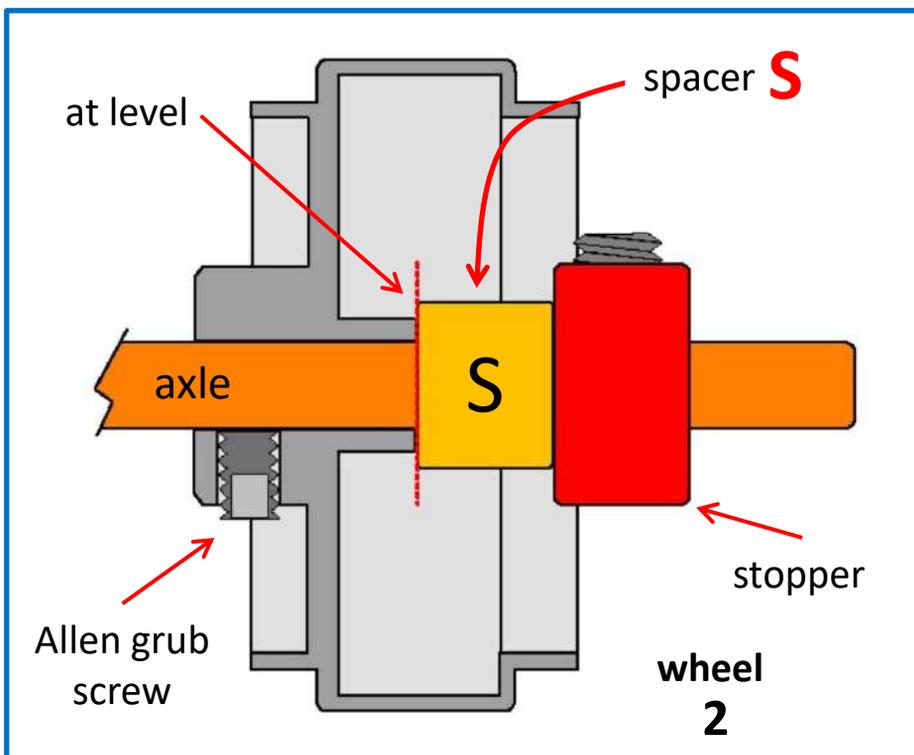


VERY IMPORTANT: Assemble one end of the front axle -A- as indicated in the picture above, taking special care to make the axle at level with the rim. It's not important the model or type, the most important thing is that the rim is perfectly at level with the axle as indicated in the lower drawing.



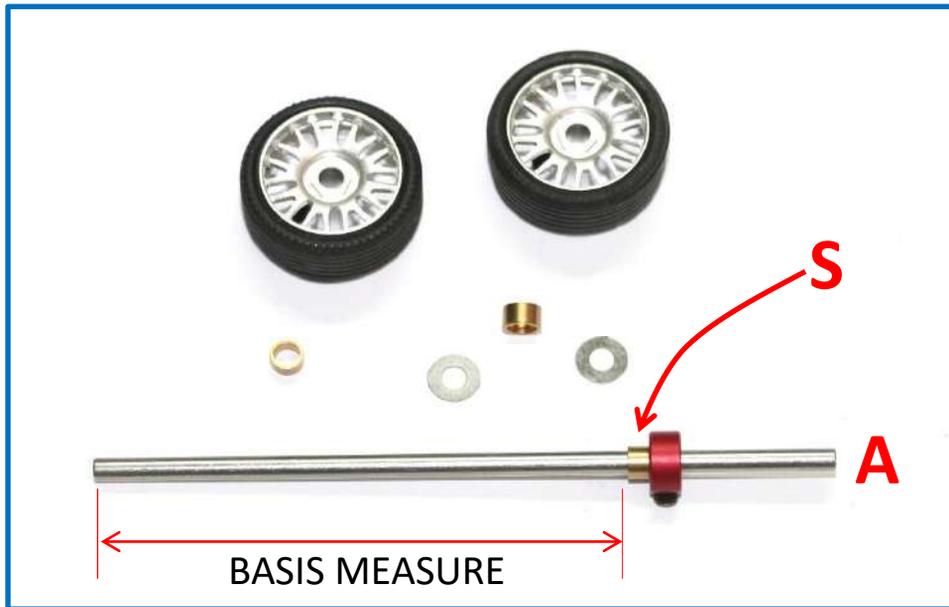


At the other end of the axle -A- you must place the 1 or 2 mm spacer. -just touching the rim- and the stopper -also touching the spacer- as can be seen in the upper picture and in the lower drawing.

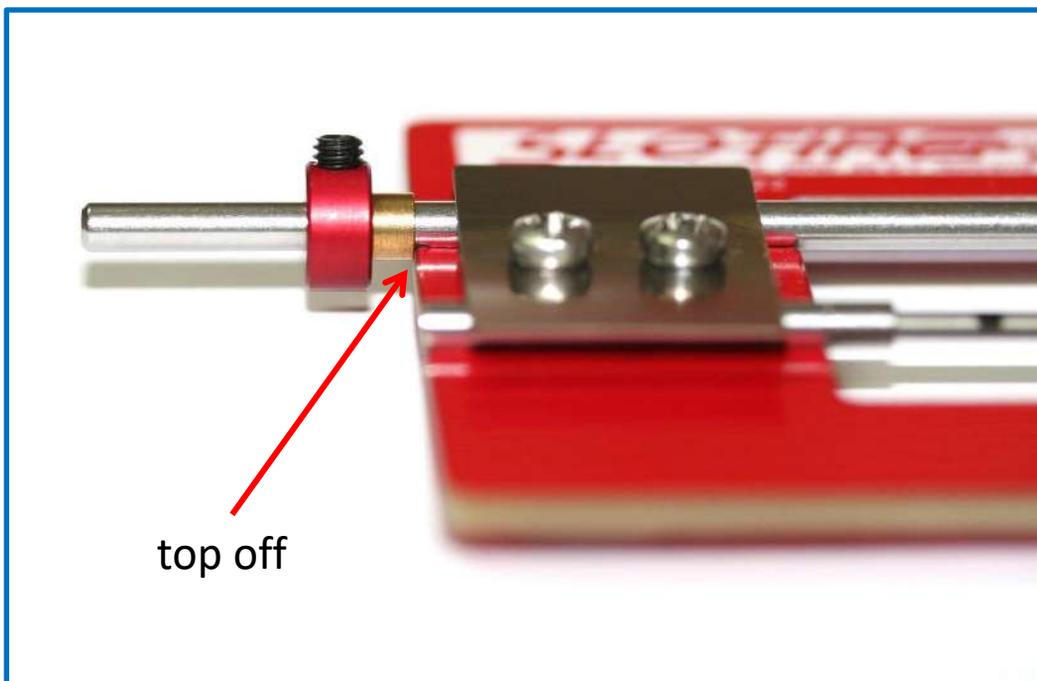


ATTENTION: Remember to always leave a little lateral clearance between 0.20 and 0.40 mm. so that the wheels can turn freely.

Next, and with the front axle **-A-** at the desired size and lateral clearance, it will be time to disassemble the two rims, remove the four spacers (less the spacer **-S-**) and the axle **-A-** will reflect the exact measurement that will serve as a base to create the **-RIGID AXLE FOR INDEPENDENT WHEELS-**.



Then you can place the axle **-A-** as indicated in the photo below, just a "top off" with the red base.



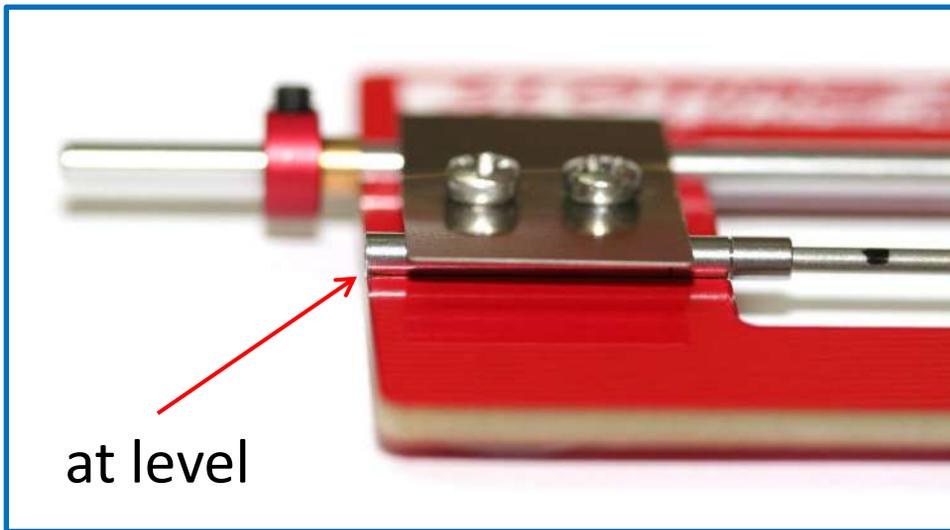
Position the axle **-B-** (touching the axle **-A-**) and finally fix the stopper **-C-**. The measurement reflected in axle **-B-** will serve as a base to finally create the **-RIGID AXLE FOR INDEPENDENT WHEELS-**.



Now place the two semi-axes, taking special care that the marks are facing each other (lower image) and also place the small guide axle inside.



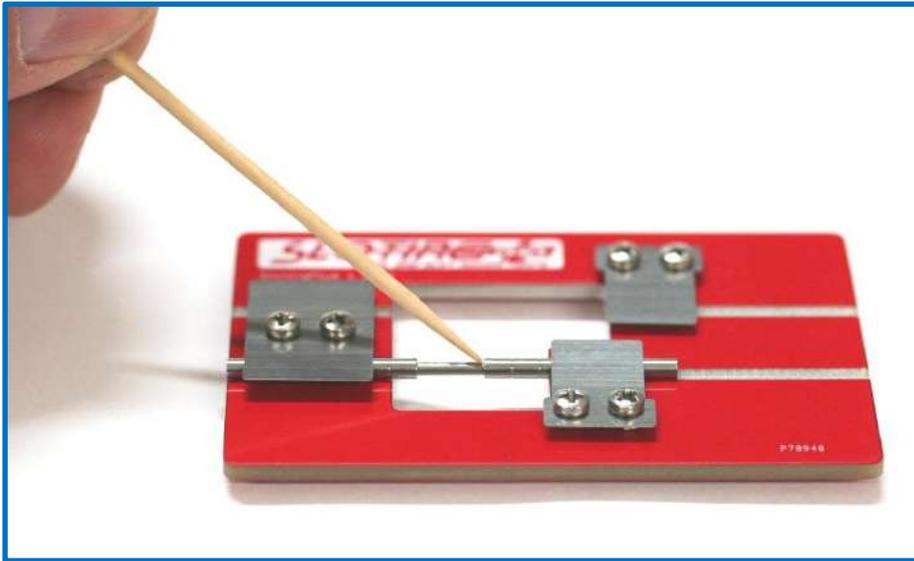
Take special care to level the left semi-axle with the red base as indicated in the lower picture.



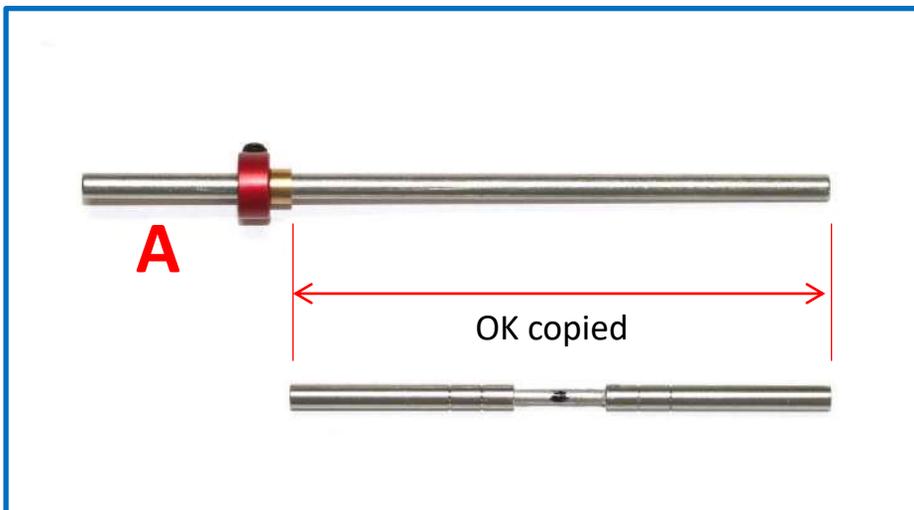
Position the axle **-B-** as indicated in the picture below, top off with the right semi-axle and place the guide axle mark in the center of the two semi-axes. Now the set is ready for to glue.



ATTENTION: Glue the set with Cyanoclorate type glue but using **-VERY LITTLE AMOUNT-** quantity because the glue will act by capillarity and a very small quantity is sufficient. Help yourself with a toothpick or similar to deposit the glue.



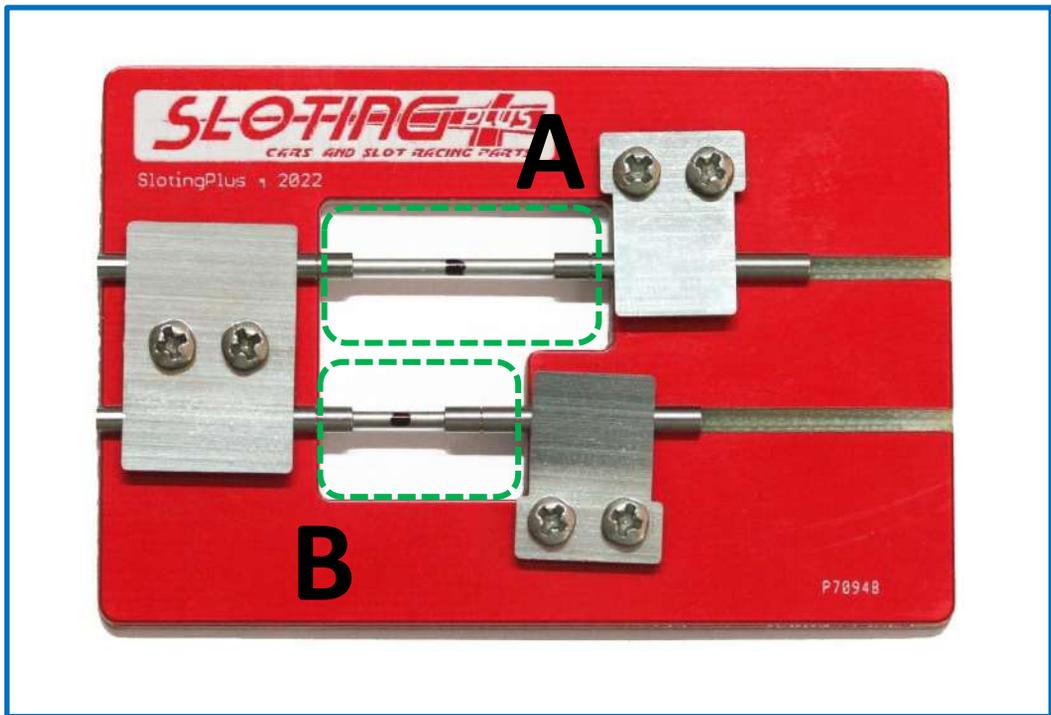
NEVER put down the glue directly from the bottle, and if you use a brush, remove some of it. -USE VERY LITTLE AMOUNT-



The final result is the one shown in the pictures below.



Remember that it will be necessary to use "soft" screw fixer or nail polish to prevent the screws from coming loose.



In order for the axle we are manufacturing to be perfectly straight, it is very important that the right side semi-axle it's not "hanging up" and be well supported in the groove.

For this reason, the long axles must be mounted in window **-A-**, and shorter axles in window **-B-**.

The way to prepare the axles **-A-** and **-B-** is always the same. It does not matter what length of axle we need to manufacture. The procedure is always the same.

Be very careful so that the CYANO glue does not spill on the red base.

Put a thick piece of paper or cardboard under the red base in case you accidentally spill some glue.

REMEMBER, USE A VERY LITTLE AMOUNT OF GLUE.

Thank you very much for trusting Slotting Plus products.