

The Beiter REST

The **Beiter REST for Recurve** is the first Arrow Rest designed by Werner Beiter which will sold on the archery market.

Years of testing, many prototypes, hundreds of High Speed Films, have helped to develop this first Beiter arrow rest for Recurve Bows.



Some very important features of the **Beiter REST for Recurve**:

- ⇒ It has been designed to be used for both left- and right-handed archers!
- ⇒ May be changed within seconds, for example from Carbon- to Aluminum-Shafts!
- ⇒ Does not make any noise (according to our test archers)!

The Support has incorporated a revolutionary Guiding System for the Finger, which may change position, carried by a specific designed Spindle.

Due to the Support being applied with a specific angle (max ca. 15°), the Arrow Position versus the Plunger and the Nocking Point may be determined and changed very quickly and more precise than with any other Rest on the market!

A Scale offers the opportunity to re-position the Finger after tests or changes.

The choice of the correct Rest combination:

Determine the distance "A" from the outer diameter of the arrow to the inner side of the bow window (**pic. 1**). The distance (in mm) resulting from this measurement, tells you which Beiter Support-Arrow Rest combination to choose. "15 (S #1)" or "16 (S #1)" or "17 (S #1)" means, that the Arrow Rest may shoot this combination up to distance "A"= 15, 16 or 17mm.

Exceptions may be solved as follows:

- ⇒ **Distance "A" < 15, 16 resp. 17mm.** The overhanging Arrow Rest Finger may be cut with a small plier.
- ⇒ **Distance "A" > 15, 16 resp. 17mm.** Use Support #2 to add 1mm or Support #3 to add 2mm.

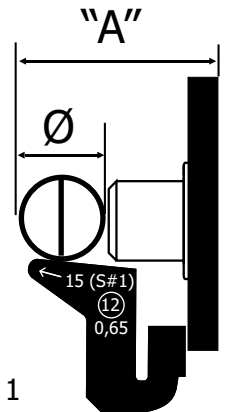
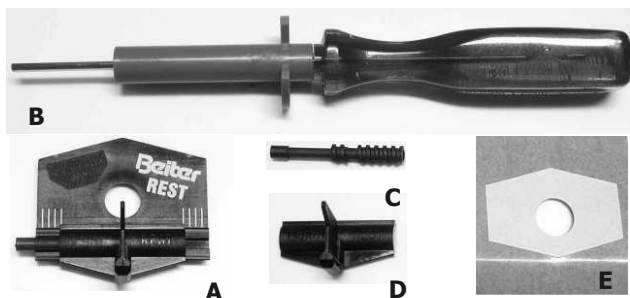


Abb. 1

The other numbers on the Arrow Rest Finger help to better determine the correct use:

- ⇒ The numbers in the circle are telling you, for which shaft diameter the Finger was designed "12" for 10/64" to 14/64", "17" for 15/64" to 19/64" and "23" 20/64" bis 24/64").
- ⇒ The last number (e.g. 0,65) tells about the thickness of the Arrow Rest Finger in Millimeters.



Sales Unit:

- ⇒ 1 Support (depending of the model, with support #1, #2 or #3) - (A) with Glue Strip, assembled with 1 Spindle, 1 Finger
- ⇒ 1 Beiter Rest Tool (B) for the vertical adjustments and the exchange of the Finger
- ⇒ 1 ea. Spindle (C), Finger (D - the same as the one installed), Extra Glue Strip(E) and instructions.

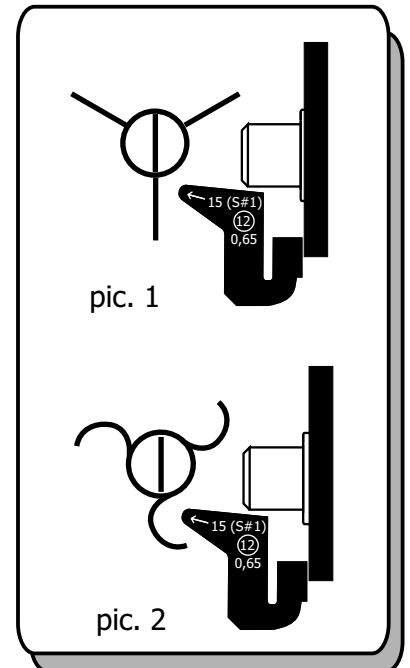
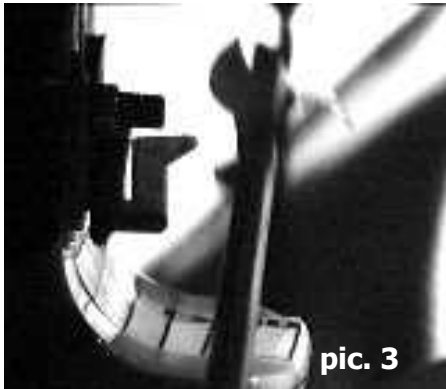
BEITER REST				
Code#	Finger	S#	Dist. "A"	Shaft-diam. in mm
Shaft Size 10/64"-14/64"				
RE1512065	1512065	1	15	5,2 +/-1
RE1612065		2	16	
RE1712065		3	17	
Shaft Size 15/64"-19/64"				
RE1617065	1617065	1	16	7,8 +/-1
RE1717065		2	17	
RE1817065		3	18	
Shaft Size 20/64"-24/64"				
RE1723077	1723077	1	17	9,3 +/-1
RE1823077		2	18	
RE1923077		3	19	

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CORRECT FIT AND WORK

In combination with the Beiter Rest we suggest:

- ⇒ **Beiter Plunger:** the steel-bushing has an exact fit and the same diameter (6,0mm) as the hole in the Support. The hole allows precise positioning and installation of the complete Beiter Rest.
- ⇒ **Nockposition:** Align the nock into the "Y-Position" (one vane straight down, two vanes up - pic. 1 and pic. 2). In this position the fletching position gives the arrow the biggest free space, to allow the best possible clearance. The pictures taken with our High Speed Camera are showing the end of the shaft passing the Rest with no interference.
- ⇒ **Nocking Point:** It is absolutely normal to have the higher Nocking Point 16-20mm above Zero. These allows the Arrow Rest and the Plunger to work in a better synergy.



Pic. 3 and pic. 4:
These High-Speed Screen Shots are showing the clearance of the Beiter Arrow Rest with a correct tuned arrow.

HINT:

If the plunger has to be screwed too much, the thread may appear on the inside of the window, pushing against the support: if this happens, just use a longer Plunger Pin.
For the use with most bows on the market, we recommend the Beiter Plunger 6523.0 (max. Screw depth 23mm), which includes 3 white (34mm) and 3 black (36mm) Pins. Blue Plunger Pins(38mm) are available separately: than you reach a screw depth of 25mm.

HINT:

Plunger and Arrow Rest must work together.
The Beiter Arrow Rest allows a longer and better guidance of the Arrow, when the Plunger and the arrow set-up (Nocking Point, Center Shot) is optimized.
It is possible to weaken the Beiter Rest - if needed -, pushing the Finger forward.
You will then have a lower arrow position, but this can be compensated through the vertical adjustment.
The weaker Finger will harmonize better for example with a weaker Plunger set-up.

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HOW TO INSTALL

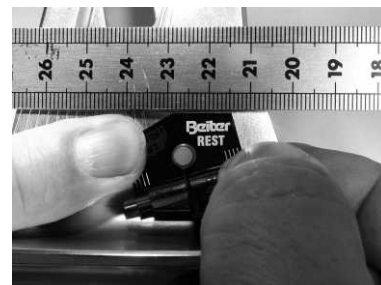
Attaching the Support on the Bow window:

Clean the surface of the bow window. Insert a bow-square on the string and the Beiter Rest Tool in the Beiter Rest to easily find the correct position, as much as possible parallel to the bow square (**pic. 6**).

Pay attention that the Beiter Rest Tool must be inserted completely from in the spindle from the back-side. The Beiter Rest may be used for both RH or LH archers: **LH may** use the Beiter Rest Tool **without** the blue sleeve, and must work from the front side of the bow, not from the back-side as RH archers do!

Strip off the Tape and install the Beiter Rest over the Plunger, trying to keep the Beiter logo **parallel** to the bow-square (for LH the word "SUPPORT") and press firmly (**pic. 7**).

The maximal adhesive power is reached on anodized handles after about 12 hours!



pic. 6



pic. 7



pic. 8

Due to this position you have a 15° angle, which allows a maximal height adjustment of 2mm.

In the factory setting (Pos. "0") the Arrow Rest Finger touches both white lines (**pic. 8**).

By turning the Beiter Rest Tool to the **left**, the Arrow Rest Finger moves to the front and therefore down (**pic. 9**), changing the position of the arrow towards the Plunger, but also the Nocking Point (which turns to be higher!).



pic. 9

A smaller angle when installing the Support will allow even a more precise height adjustment, but changes also the stiffness of the Arrow Rest Finger.

With the angle of 15°, one complete turn of the Beiter Rest Tools moves the Arrow Rest by 0,39mm up or down.

Moving the Arrow Rest by one line (1mm) with the 15° angle, effects a height adjustment of 0,26mm.



pic. 10

NOW THE BEITER REST IS READY TO BE USED!

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HOW TO USE

PLEASE NOTE:

- ⇒ The Beiter Rest can not have unlocked screws! The only moving part is the Spindle: without the inserted Rest Tool, the spindle can no longer move!
- ⇒ The finger may - especially at the beginning - wear: this may be compensated with the height adjustment. If the wear is too extreme, the Finger can be exchanged easily, precisely and quickly.
- ⇒ If used under extreme conditions (e.g. A too high or too low nocking point, or a not precise tuning causing clearance problems), the Finger may wear faster, than with a correct set-up.

CHANGING THE FINGER:

- ⇒ You may easily change from Aluminum to Carbon and back, finding always again exact the same position: simply change from the finger "12" to "23" and vice-versa.
- ⇒ Another reason to change the Finger, may be the fact that the Finger brakes or wears due to an incorrect tune. A small groove may be compensated with the height adjustment.

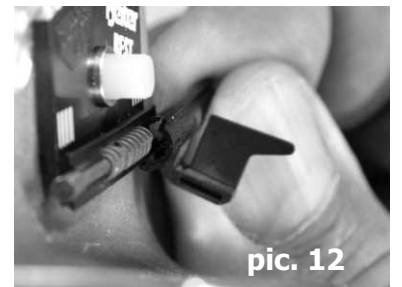


pic. 11

IMPORTANT!

Every Finger is produced out of a single mould, so each Finger is identical to the other!

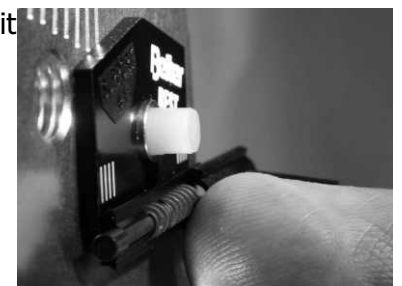
To exchange the Finger, insert the Beiter Rest Tool completely into the Spindle (for LH without the sleeve, if there is not enough space), and turn clockwise (to the right **pic. 11**) until the Finger is not anymore guided by the Spindle and touches the sleeve. Extract the Finger while the Spindle will stay clipped on the Support.



pic. 12

Now insert the Finger in the Support, positioning it into the lower guide (**pic. 12**) and clipping it on the upper guide like a push-button (**pic. 13**). Insert the Beiter Rest Tool again completely into the Spindle and press **simultaneously** against the Finger with it and turn counter-clockwise (to the left, **pic. 14**) to engage the first thread.

Left-Hand archers must push with their finger against the Finger to engage it!
Now you can move the Beiter Arrow Rest Finger in the desired position!



pic. 13

BEITER REST SPARE PARTS

Code#	Description
RE76661512065	Rest, Finger 15-12-0,65
RE76661617065	Rest, Finger 16-17-0,65
RE76661723077	Rest, Finger 17-23-0,77
RE7666151206510	Rest, Finger 15-12-0,65, 10 pcs.
RE7666161706510	Rest, Finger 16-17-0,65, 10 pcs.
RE7666172307710	Rest, Finger 17-23-0,77, 10 pcs.
RE7666S1	Rest, Support #1, incl. Glue Strip
RE7666S2	Rest, Support #2, incl. Glue Strip
RE7666S3	Rest, Support #3, incl. Glue Strip
RE7666SP	Rest, Spindle
RE7666KL	Rest, Glue Strip
RE7687	Rest Tool



pic. 14