



GILLO Risers - Alignment and Service Manual

GILLO

RISERS



G1

G2

GQ



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CONGRATULATIONS FOR PURCHASING A “GILLO Gold Medal” RECURVE RISER!

General Remarks

“GILLO Gold Medal” risers are designed and assembled in Italy and are made by aeronautic grade materials and parts.

Risers are in aluminum “Anticorodal” 6061 T6 or 6082 T6 alloy and are machined by very advanced milling machines with computerized control directly from solid bars of aluminum or from forged shapes strictly checked to grant the uniformity of the alignment of their fibers. Pre charges bolts are made by Stainless Steel and limbs alignment system inner plates are made by “Ergal” 7075 Aluminum or Brass . Grips are made in hard wood or in plastic in various types of technologies. All screws and grains are in Stainless Steel

All aluminum parts are anodized in depth in order to grant maximum resistance to corrosion, abrasion and to grant stability of the color under sunlight.

The product you have purchased has been designed and produced in a way to grant you an almost unlimited life of its basic structure.

Please follow the easy instructions below for use and maintenance of your “GILLO Gold Medal” riser and you will be in a position to appreciate its extraordinary features for very long time.

Information herein are anyhow intended as manufacturer’s best at the time of the printing and can change without notice

Condition of the riser at the delivery

Risers are polished by hand to shiny surface or sandblasted before anodizing, therefore small discontinuities on their surfaces may happen and have not to be considered as defects.

Risers are assembled and aligned manually one by one, in order to grant their perfect linearity. If you will use straight limbs with them, there should be no reason to change the factory set alignment.

Precharges of the limbs are set at the factory ever at two turns of limbs bolts from maximum possible poundage. You can unload the precharges bolts of other four full turns in order to adjust tiller or to lower poundage (total excursion, +2 to – 4 turns in full safety).

Loosen limbs precharges to less then above limit is considered violation of the warranty and may generate risk of breakage of the related parts and risk of injury for the user.

Limbs Bolts

“GILLO Gold Medal” pre-charge system is based on 5/8-18 threaded limbs bolts that can grant very strong limbs pre-charge stability. They are locked on the back by an M6 Stainless Steel locking screw with special conic head.



To operate them, loose the back locking screw first by one of the 5 mm wrenches provided. Precharge bolts can be operated with bow loaded.

Use two spanners to lock the bolt again, in order to avoid it moving while tightening the back screw.

Unloading limit is mainly determined by the shape of the limbs sockets and their thickness. Not all type of limbs will allow you to reach that minimum of -4 turns of the bolt.

To determine the maximum possible unloading limit for your limbs just insert the limbs inside their seat without stringing the

bow. Then start unloading one limb bolt slowly until you can see from the side that the end of the limb socket is clean form the inner surface of the bolt. Half turn more (tighten) from this position is the practical unloading limit for that limb. Repeat same procedure for the other limb to find also its unloading limit.



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To remove the bolts, just untighten the back locking screw first.

Limbs bolts threads are lubricated by a silicon based grease and this is very important to avoid problems during tightening and untightening the bolts. If you replace one bot with a new one, don't forget to add a bit of silicon or similar lubricant grease on the threads before starting to screw on the new bolt.

Manufacturer shall not be considered liable for any damage or injury coming from improper operation of the precharges system.

Operation of the alignment system

Limbs alignment system is preset at factory level with maximum possible precision and grants the assembly of the limbs perfectly on the riser axis.

Small linearity defects of limbs or risers themselves may request to operate the alignment system.

To this purpose, operate as follow



- 1) Slightly loose the M6 inner screw in each pocket, using the 4 mm wrench provided. 1/4th of turn is suggested
- 2) Remove the 2 x 5mm side locking grains using the 2.5 mm wrench provided
- 3) Assemble the bow with the full stabilizing system or at minimum with a straight long rod.
- 4) Insert just over the limbs (archer's side) minimum one pair of Beiter limbs alignment tools or mark with a water ink pen a minimum of one references on the center of each limb close to the riser ,
- 5) Loosen with 2.5 mm Allen wrenches provided, the two blocking grains of the upper and lower alignment systems.
- 6) Looking to the axis made by the string, the center of the limbs, the center of the precharges back locking screw and the center of the long rod, tune by the alignment grains, remembering that:
 - A) Tightening clockwise the right upper grain (seen from archer's side) the tip of the upper limb moves to the left.
 - B) Tightening clockwise the right lower grain (seen from archer's side) the tip of the lower limb moves to the left too.
- 7) For G1 and GQ25 risers, operate right and left grains until you will get the position of the string, on the center of the limbs and on a line visually slightly to the right (Right Hand risers) from the axis of the long rod. This because long rod bushing of G1 and GQ25 risers is 1 mm off from center line for better stabilization by the long rod. For G2, GQ23 and Ghost risers, reference must be the center axis of the long rod as center bushing is on the center axis of the riser .
- 8) When optimal alignment is reached, tighten the grain on the opposite side of the one operated last on that limb, and insert and tighten the two additional 5 mm locking grains. Some thread locker on external grains will grant them to stay on place during use
- 9) Unbrace the bow, remove the limbs and tighten 6mm screw inside the pockets to lock the alignment plate

In case it will be impossible to reach an acceptable alignment, specifically in presence of limbs not straight or, even worse, twisted, we suggest to you to renounce to their use and replace them, as the riser alignment system can only correct small normal imperfection of the limbs straightness.

Warning! Tightening too much the side grains may bring to difficulty in inserting and removing the limbs from the dovetails in the pockets. Vibrations during use may unlock the side grains, if not locked with thread locker. Check them time by time.



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Replacement of the grip

Risers are supplied with the Medium grip as standard. Ghost Superhunter riser is supplied with two wooden side plates also. Grips of different shape or/and materials are available as spare parts. Riser can also accept the special "GILLO Ball Grips" available also as spare part. To remove the grip or the side plates, simply remove the two side M4 screws by the 2.5 mm wrench provided.

Clicker plates

G1, G2 and GQ risers are supplied with a standard short clicker plate assembled on it, while a long version is also provided in the packaging. To replace the standard clicker plate with the long one, simply remove the M4 screw locking it by using the 2.5 mm wrench provided. Clicker plates in plastic of different colors, materials and lengths are available as spare parts.

Standard cover (G1 risers only)

The G1 riser is supplied with a standard Gold color cover that closes the compartments dedicated to the optional disk weights. Covers of different colors are available as spare parts. Bare bow heavy covers are also available in different versions. To remove the cover, remove the 4 x M4 screws using the 2.5 mm wrench provided.

Warnings !

**Assembling an optional cover over the riser may generate scratches on riser surface !
If the optional cover does not slide on easily over the riser, do not force it but ask your dealer for replacement.**



Assembling Heavy weight Bare Bow covers over the G2 is not suggested as the four M4 threaded holes of G2 can't support them properly. Damages coming from use of heavy covers on the G2 will void riser warranty. Please refer to the specification sheet of the various covers to check if they are suitable for the G2 riser.

Plastic Color Caps)



Plastic Color Caps equipping first generation of G2 risers are still available as spare parts in many different colors.

To install or remove a cap pair, simply insert two coins in their side slots and screw or unscrew them each other.

Wooden Caps (GHOST riser only)



The GHOST riser is supplied with one pairs of wooden caps that close the 2 round compartments that can also accept optional disk weights. Caps are kept on side by one inner O-ring.

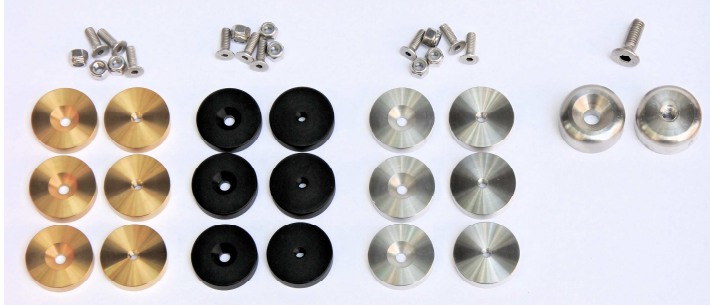
To remove caps, simply insert nails under their side and pull them out of their seat
Wood caps are available also as spare parts and can fit all GILLO risers



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Optional disks weight

GILLO risers can mount several different type of optional disk weights in the round bottom compartments. Optional round weights can be used for different purpose from purely adding weight to the bottom part of the riser, up to alter torsional reaction of the riser by adding weights on one side only (G1) or adding steel or Tungsten disk weights on one side and aluminium disk weights on the other side (GQ and G2 risers)



Suggested brace heights

Brace height is depending from both riser and limbs geometries. Therefore, following brace heights ranges are to be considered when using GILLO Gold Medal Risers with standard curved limbs, only.

G1-27

- 68" bow (short limbs) -----> 8" to 9"
- 70" bow (medium limbs) ---> 8 3/4 " to 9 3/4"
- 72" bow (long limbs) -----> 9 1/2" to 10 1/2"

G1-25 / GQ-25 / G2-25

- 66" bow (short limbs) -----> 8" to 8 3/4"
- 68" bow (medium limbs) ---> 8 1/2" to 9 1/4"
- 70" bow (long limbs) -----> 9 " to 9 3/4"

GQ-23 / G2-23

- 64" bow (short limbs) -----> 7 1/4" to 8"
- 66" bow (medium limbs) ---> 7 3/4" to 8 1/2"
- 68" bow (long limbs) -----> 8 1/4" to 9"

Ghost riser + Ghost limbs (60" bow):

- from 7" to 8" with grip
- from 7 1/4" to 8 1/4" without grip

Ghost limbs are short limbs. Add 3/4" average to brace when moving to the next length of limbs

As a rule of thumb, ever adjust the brace until you can still see at least 1.5 to 2 cm of the groove under the string in the area close to the tips.

Brace height may vary out of above indicative ranges if using super curved limbs or long bow type limbs

Useful resources

Register on Facebook to "GILLO Gold Medal Users Group" to get help from the community of the GILLO products owners



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WARRANTY CONDITIONS

“**GILLO Gold Medal**” risers are warranted against manufacturing defects for 12 months from the date of the purchase.

The manufacturer reserves the right to repair defective risers or to replace them with equivalent models for features and conditions of use.

Warranty conditions are applicable to products returned by the way of the original reseller or distributor to API - Archery Productions Italy SRL Via Varese 76E – Gallarate – VA – Italy .

Cosmetic and surface finishing defects are excluded from the warranty and can be argued directly to the dealer at the moment of the purchase, only.

“**GILLO Gold Medal**” risers are warranted for 5 years against any failure of the structure of the riser, provided that it is not coming from improper use of the product. The warranty for structural defects applies on Pro-Rata base after first year of 100% warranty is expired and for the structure (riser) part only.

This Instruction manual is also the Warranty certificate of the riser and shall be presented to API - Archery Productions Italy SRL for any request of repair, maintenance or replacement.

Warranty certificate can only be valid in presence of a fiscal proof of the purchase stating its date (invoice or purchasing receipt) and Dealer name and location, as well as Serial Number of riser

Model: _____ Serial Number _____

Date of purchase: _____

Location: _____

Dealer's Stamp



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