



GILLO GF Risers- User's Manual



GILLO Changing The Game Further



GILLO GF Risers- User's Manual

CONGRATULATIONS FOR PURCHASING A "GILLO Gold Medal" GF RISER!

General Remarks

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

Risers are in aluminum "Anticorodal" 6061 T6, 6082 T6 or "Ergal" 7075 T6 alloy and are machined by very advanced milling machines with computerized control directly from solid bars of aluminum strictly checked to grant the uniformity of the alignment of their fibers. Pre charges bolts are made by Stainless Steel inside an Aluminum anodized shell, and limbs alignment system inner plates are made by "Ergal" 7075 Aluminum. Grips are made by hard wood. All screws and grub screws are in Stainless Steel or Brass.

All Aluminum parts are anodized in depth or treated by Cerakote® 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" GF 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 and 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.



Pockets of the limbs are set at factory at neutral position corresponding to 16° angle of their internal surface and -5 turns from maximum poundage. You can unload the precharges bolts by six full turns in order to adjust tiller or to lower poundage (total excursion, +5 to - 6 turns in full safety).

Loosen limbs precharges to less than 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.

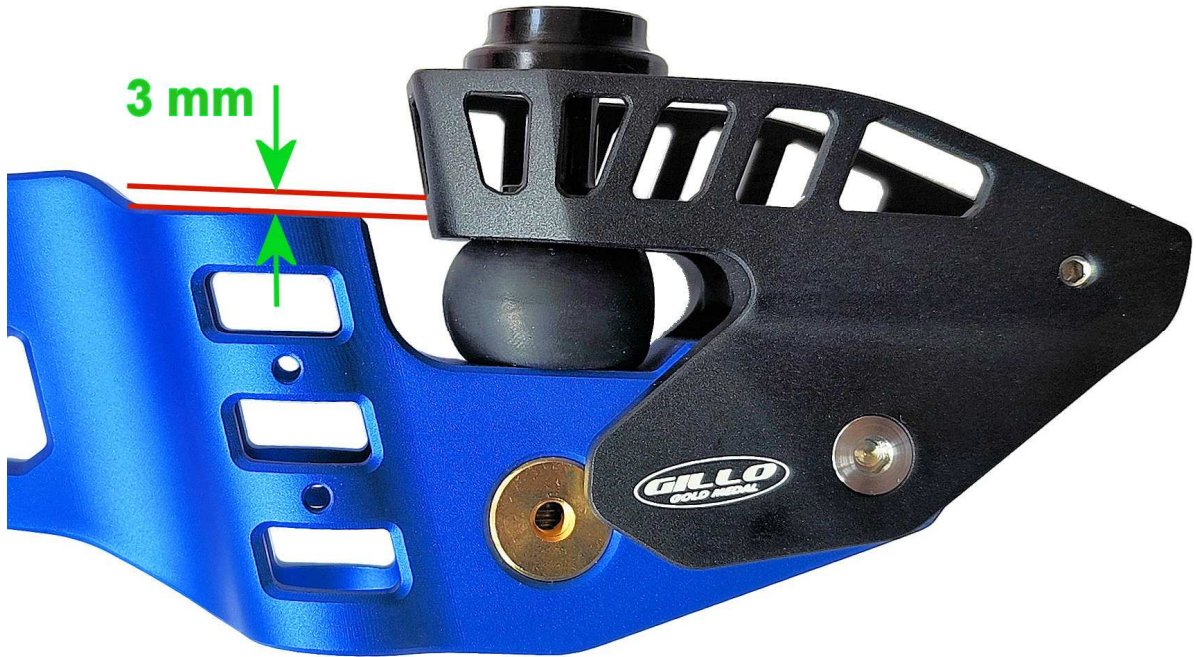
Two pieces of M5 x 6 mm Brass locking grub screws are provided inside the accessory bag and should be used for locking the limbs bolts after adjustment (one for each bolt).



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Recovering pockets of the original factory setting

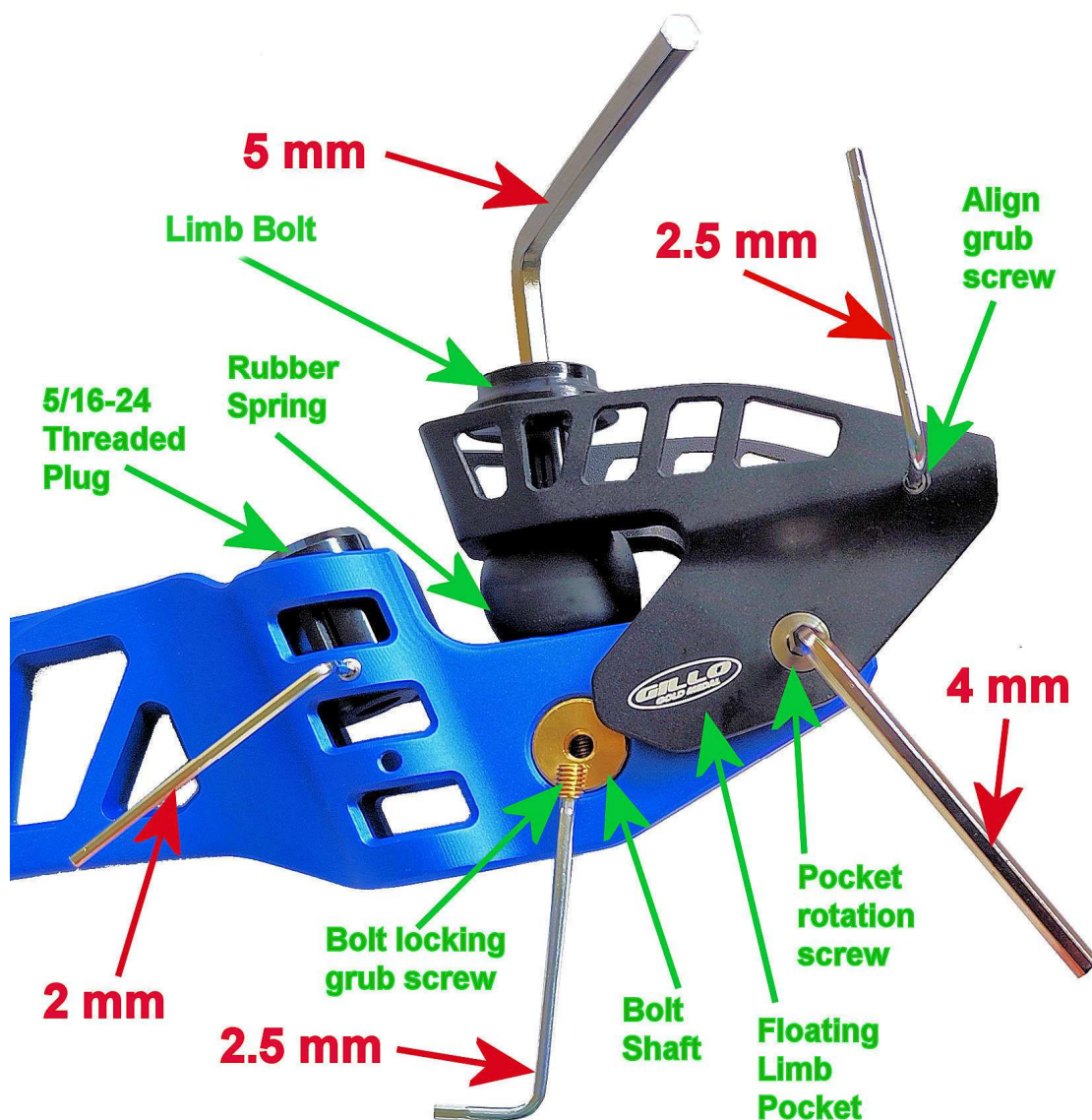
If you need to recover pockets to their original factory setting, you have to adjust the pockets to 3 mm distance from the internal top part of the pocket itself from the plain coming from the riser.



To do it easily, simply use the Long Clicker plate provided in the accessories bag, that is 3 mm thick, as a gage to position the pocket to the original factory setting.



Tools and adjustments – Accessories kits



Tools and accessories provided in the accessories bags are as follow:

- 1 x 2.0 mm Allen wrench
- 2 x 2.5 mm Allen wrench
- 1 x 4 mm Allen wrench
- 1 x 5 mm Allen wrench
- 2 x M5 x 6 Brass Bolt Locking grub screw (provided in the accessory bag)
- 1 x M4 x 6 screw for clicker
- 4 x M4 x 8 screws for Bare Bow weights
- 1 x Long clicker plate
- 2 x G24-TP-01-BK Aluminum Black anodized plugs with 5/16 -24 tapped hole
- 2 x G24-PP-01-BK Plastic plugs



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Floating Limbs Pockets

“GILLO Gold Medal” GF risers pockets are made in a way to tilt rotating close to the top of the riser by an internal lubricated transversal shaft. Amount of rotation is controlled by the limbs bolts that are connected internally to the riser by another lubricated rotating transversal shaft. Operating the precharges of the limbs does not change the angle of the limb to the bolt and to the pocket as well, as both remain constant, but allows tilting of the entire pocket of the limb that is kept in position by a special Neoprene rubber spring.



This system allows an unprecedented range of poundage adjustment using the same pair of limbs, as they tilt together with the pockets were they are inserted.

Average total range of adjustment for poundage is:

+ 5 to - 6 full turns of the limb bolt, corresponding approximately to >40% total variation in poundage from minimum to maximum.

To operate the floating pockets, remove the side Brass grub screws of the bolt transversal shaft, loose a bit the pockets rotation screws on both sides by the 4 mm Allen wrench provided and operate the precharge by using the 5mm Allen wrench provided, until you reach the desired poundage and /or tiller, then lock again the pocket rotation screws and the side grub screws. Precharge bolts can be operated with bow loaded for very small adjustment only. When doing large

adjustment, remove limbs first as you should manually help the Neoprene rubber spring under the pocket to recover to less or more compress status, as well as to position properly limbs bolt and entire floating pocket to the new angle.

Safe



Warning!

Unloading safety limit can be checked looking from the bottom the transversal bolt shaft. Minimum is reached when you still can see the hole closed totally by the limb bolt.

To remove the limbs bolts, just untighten the side grub screws first. Limbs bolts threads are lubricated at their threaded ends by a Lithium based grease and this is very important to avoid problems during tightening and untightening the bolts. If you replace one bolt with a new one, don't forget to add a bit of Lithium or similar lubricant grease on the threads before starting to screw in the new bolt.

Warning!

Limbs bolts of the GF riser are compatible to limbs bolts of GY riser but NOT to limbs bolts of GT and GX risers.

Warning!

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



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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. 1/8th of turn is suggested
- 2) Remove the 2 x 5mm side locking grub screws 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 gages 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 external locking grub screws 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 grub screws, remembering that:
 - A) Tightening clockwise the right upper grub screw (seen from archer's side) the tip of the upper limb moves to the left.
 - B) Tightening clockwise the right lower grub screw (seen from archer's side) the tip of the lower limb moves to the left too.
- 7) Operate right and left grub screws 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 GF risers is 1 mm off from center line for better stabilization by the long rod.
- 8) When optimal alignment is reached, tighten the grub screw on the opposite side of the one operated last on that limb, and insert and tighten the two additional 5 mm locking grub screws. Some not permanent thread locker on external grub screws 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 grub screws may bring to difficulty in inserting and removing the limbs from the dovetails in the pockets.

Vibrations during use may unlock the side grub screws, if not locked with thread locker. Check them time by time.



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The tunnels and the Plugs

"GILLO Gold Medal" GF 25 risers feature a unique solution for forward balance of the bow by the presence of two perpendicular "Tunnels", each one close to each pocket, that allow an almost infinite combination of balancing solutions. GF 27 risers feature 2 "Tunnels" in the lower part of the riser



You can insert in the Tunnels the standard plugs provided with the accessories kits of the GF risers, or one or more of the special plugs combinations offered as optional accessories.

The GF risers come with 2 pcs of G24-TP-01-BK Aluminum Black anodized plugs with 5/16-24 tapped hole and 2 pcs of G24-PP-01-BK Plastic plugs.

The typical combination of plugs on riser is to assemble an Aluminum plug on front of the riser and a Plastic Plug on back of the riser, on one or 2 Tunnels. Aluminum plugs have an O-Ring around them to avoid vibrations and can be locked to the Tunnel by the way of 2 x M4x5 mm grub screws provided. Plastic plugs just need to be pressed inside the tunnel to close it.

Optional combinations can see up to 4 Aluminum plugs or up to 4 Plastic plugs assembled on each GF riser.

G24-TP-01-BK



G24-PP-01-BK



Warning!

Aluminum Plugs locked in the Tunnels by 2 side grub screws are suitable to accept a limited amount of external weight of around of 200 g maximum in total, to avoid damage to their holding system. Use of very heavy weights screwed top of the Aluminum plugs will void warranty of the GF riser.



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Pocket system maintenance and replacement

Pocket system is carefully assembled at factory level to grant minimum play of its parts and to fine align the pockets themselves each other. Therefore, disassembling in total by the way of removing side rotating screws should only be done by an authorized GF riser serving center as it voids Warranty of the riser.

Only maintenance required by user is to check time by time that said screws are tighten and not lose because of vibrations during use.

In case there is a perceivable movement of the pocket left to right or right to left, it means that the side plastic washers under it need replacement, and this shall be done by a certified GILLO GF riser Service Center only.

Neoprene springs compressed to the maximum for long time may need to be replaced if you want to get back using the system at minimum level.

Replacement of the grip

Risers are supplied with a Medium grip as standard. 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

GF risers are supplied with a standard short clicker plate assembled on it, while a long version is also provided in the accessories bag. 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.

Optional GVB-K03 V-Bar kit and use of short rods on front of riser



Several dedicated accessories are available for the GF risers. Among them, the GVB-K03 V-bar kit that can fit any of the 3 lower positions, for perfect balance in Recurve shooting.



As far as the use of short rods in front of the riser are concerned, you can assemble them directly to the standard Aluminum plugs provided, or use same plugs in a specific configuration were they are hold to the riser by a pair of (optional) weights that compress 3 neoprene springs inside the Tunnel, so making a self-amortized configuration that have no limits in weight that can be added to the short rod.



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Optional Bare Bow weights

Several dedicated accessories for Bare Bow shooting are available for the GF risers, in addition to all those already available for GT and other risers. Almost all of them can be assembled in combination with the dedicated GF weights. Some examples are herebelow.

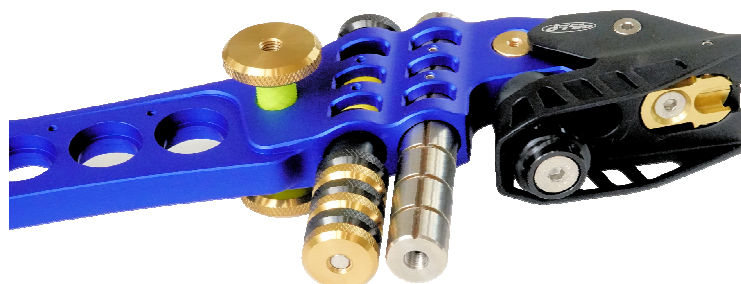
G24-BW-05



G24-BW-06



G24-BW-07





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G24-BW-05-130 Optional weight consists of 1 x Stainless Steel plug 130 cm long and weighting 296 g, specially designed to fit the Tunnels of the GF riser. Moving it inside the lower or upper Tunnel, you can find the desired balance easily, by the plug alone or in conjunction with GILLO Bare bow one piece or composable weights. Additional weights can be added on both sides of the plug by 5/16-24 threaded screws



G24-BW-06-102/125 Optional weights consists of a kit made by GSX-CW-01 weights of different color and 2 x Neoprene rubber springs G03-NS-01-25 Black color and 1 x G03-NS-01-25 Yellow, hold together by a 5/16-24 threaded Stainless Steel bar (102 mm long for 4 weights, 125 mm long for 7 weights) that can fit the Tunnels of the GF risers. By tightening the weights on both side of the Tunnel, you will lock the rubbers inside it and adjust their compression level, up to the desired amortizing and balancing effects.



G24-BW-07-125 Optional weights consists of a kit made by 7 x GSX-CW-02 weights of different color and 2 x Neoprene rubber springs G03-NS-01-25 Black color and 1 x G03-NS-01-25 Yellow, hold together by a 5/16-24 threaded Stainless Steel bar 125 mm long for 7 weights. Function is same as G24-BW-06-125 with less weight.



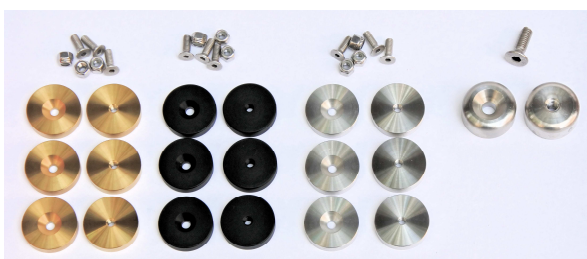
Contact your supplier to get the latest information about available kit colors and to get additional GSX-CW-01/02 weights in different colors for a more personalized looking and distribution of weight.

Warning !

Assembling an optional Bare bow cover, Bare Bow weight or V-Bar kit over or inside 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.

Optional disks weight



GILLO risers can mount several different types 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 adding Steel or Tungsten disk weights on one side and Aluminium disk weights on the other side (GF, GT, GQ and G2 risers)



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Suggested Brace Heights and String Lengths

Brace height is depending from both riser and limbs geometries, as well as the level of precharge of the pockets. . Therefore, following brace heights ranges are to be considered when using GILLO Gold Medal GF Riser with GILLO Gold Medal limbs, only, and refer to pocket angles at factory setting (16°), only

	GF 25 + Long (70) Limbs	GF 25 + Medium (68) Limbs	GF 25 + Short (66) Limbs
String Length Indicative - without tours	171 cm	166 cm	161 cm
Brace Height Indicative Only	9 1/4"	8 3/4"	8 1/2"
	GF 27 + Long (70) Limbs	GF 27 + Medium (68) Limbs	GF 27 + Short (66) Limbs
String Length Indicative - without tours	176 cm	171 cm	166 cm
Brace Height Indicative Only	9 1/4"	8 3/4"	8 1/2"

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.

Deflex distance (pockets extremities line to grip pivot point) is 41 mm for GF 25 and 27 ILF riser (while G1, G2 and GQ risers have 40 mm distance and GT risers have 35 mm distance). Full length of GF 25 riser is 25.8", and 27.8" for GF 27, therefore these two parameters should be considered when tuning the bow.

Brace height may vary out of above indicative ranges if using super curved limbs or Long Bow type limbs.

Bow string length may need to be changed when operating limbs at the extremes allowed by the Floating Pockets system, and this will also effect the Brace height you will get. Experimenting is the only way to sort out the best compromise in bracing between floating pockets position, your limbs and the length of the string you use

GF 25 & 27 Riser / how to tune

The GF riser is very different from any other riser in the market as well as from other risers in the GILLO Gold Medal Range. Summary of main original features are:

- 25.8" or 27.8" full length
- > 40% range of adjustment on poundage because of the new floating pockets cinematic
- Tunnels system for fine balance on arrow direction
- 75 mm asymmetric on bottom (longer bottom)
- 1 mm front center stabilizer bushing offset to compensate window and sight when using long rod stabilizers
- >41 mm Deflex at factory setting
- Sight screws holes lower than standard to help lowering center of gravity when using a sight

As of the specifications, you should not expect to tune your bow with the GF riser same as you have done in the past with other risers, starting from the need of a longer string than usual as well as of a slightly higher nocking point.

Trial and error is the only way to find a good tuning of your new bow, and to enjoy the almost infinite tuning possibilities offered by the GF riser.

Useful resources

- Register on Facebook to "GILLO Gold Medal Users Group" to get help from the community of the GILLO products owners
- Download the latest versions this Manual in English and other languages from our website at www.gilloarchery.it



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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 76 E – 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**” GF risers are warranted for 3 years against any failure of the central 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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