The MAX Rest

Thank you for choosing the MAX joystick rest (the ‘Big Brother’ of the superb NEO rest) for your shooting needs!

The MAX rest is created to accept most guns up to 110 pounds and stock up to 8 (eight) inches wide. It’s the only joystick rest that will hold a true Heavy Gun. Welcome to a New Era!

Your ‘MAX’ is equipped with a standard counterweight set that will hold 80 (eighty) pounds gun and adjustable three piece bags. (Optional weight for heavier gun than 80 lbs and one piece bag are available).

The main features of the MAX rest are:

1. New rack & pinion system that runs on dual columns, with huge range & rapid adjustment of elevation.
2. Improved tension adjustment by two thumb screws. No tool or wrench is needed to adjust the tension.
3. Built-in uplift and first grade teflon bearings for a super smooth action and ability to move quickly & precisely to the point of aim in one light movement.
4. Adjustable rest top design with ‘three bags’ configuration, with extra side-tension adjustment. The front bag arrangement will accommodate any rifle fore-end width, from ‘zero’ up to eight inches.
5. Broad range of ’MOA’ travel, about 40 MOA vertically and 44 MOA horizontally.
6. Unique ‘clutch-brake’ system is incorporated to hold gun’s weight until the coaxial unit is locked. The ‘brake’ will hold most gun weights.
7. Super stable - rock solid construction throughout and ability to hold a true Heavy Gun.
8. Equipped with a counter-weight set for smooth & fluid action.

Your MAX rest can be used either for long range or short range benchrest shooting, and F-Class shooting as well.

For F-class shooters who use the rest on soft firing points, alumunium F-Class feet is available.

Optional ammo holder set (cartridge tray) and timer holder are available also.

**REST PREPARATION:**

When you receive your MAX rest, it is packed in ‘transportation mode’.

An ‘Exploded Drawing’ & ‘List of Parts’ is provided in the rest package. It is recommended to first learn the Manual & Exploded Drawing.

Your MAX rest is set in ‘up for up mode’ with the ‘third leg’ placed at the rear (shooter’s side). The reason is, the rest is designed to accept heavy gun and the counterweight will be placed on the front side.

The ‘main base’ (#1) has a built-in carrying handle. The two large columns (#2) are press fitted into the main base.

The ‘rear leg’(#4) will be secured into the main base.

Loosen the locking bolt (# 13) counterclockwise for about one half turn and raise the coaxial unit (#11) by rotating the handwheel (#25).

Unscrew the large countersink screw (#5) to remove the rear leg, then secure the rear leg into the main base using the same screw. Use the large allen wrench provided.

The end tip of the leveling screws (i.e. the ‘spikes’) are equipped with steel end-cap protection.

Whilst the main base is equipped with two long leveling screws (#8), the rear leg is equipped with a short ‘spike’ screw (#10) - to not interfere with the joystick operation.

Rear leg/screw for F-Class shooting is available. Or you can buy a metric M12x1.75 screw of your desired length & head type in a hardware store.

**FRONT BAG:**

Your rest is shipped with the front bag attached so you could follow how the front bag set is secured.

The front bags are convex (half rounded) which will minimize ‘bite’ & twist on your stock when moving from a point of aim to another point of aim or different angle.

The front bag conforms the IBS / NBRSA / WBSF Rules.

To fill the front bag, first set the carriage (coaxial unit #11) at the highest position.

Prepare some amount of sand (any type of sands you feel work) and a small funnel.

The side bags have sand fill hole on the top, the long bottom bag has sand fill hole on either sides. The fill holes are fold down.

Remove the side plates #40 (first loosen the adjustable lever screws #41) then slide the plates off to the side.

The bottom bag is retained by two strips (retainer plates #38). Loosen the screws that hold the strips for about four full rotations, then pull / slide the bag off to the side. It is not needed to completely remove the strips.

It is recommended to fill the bottom bag with sand for just about 70 % of its fullest capacity. Once you fasten the strips, the bottom bag will be more harder / compressed.

Slide the already filled bottom bag into the strips, then fasten the screws. Make sure there is no ‘gap’ between the strips and the top plate #37 to ensure the side plates to be able to slide properly on the top.

To fill the side bags you will need to remove the extra side-tension adjustment #43 and retainer plate #42 on the back. You may fill the side bags with sand to your desired hardness, however medium to hard is recommended. Also be sure the side bags are filled in equal hardness.

**JOYSTICK:**

The joystick (#36) is secured with a neat collet head knurled fixing. Finger pressure is adequate to secure the head.

Insert the joystick head into the center shaft #13.

The collet type head on the joystick is a right hand twist. From shooter’s side, turn the knurled head counter clockwise to loosen. Turn clockwise to tighten.

Attach the counterweight on the opposite side / toward the target. Use the counterweight only when you shoot gun heavier than 30 lbs.

The **fore-end stopper** and the **bubble level** are attached in ‘up for up’ mode. You will need to interchange the stopper & the level if you would use the rest in reverse mode.

The Fore-end stopper can be adjusted (tilted) up & down by a set screw #52.

**Keep the center shaft away from any hard bump, also be sure to keep your rest with the joystick removed.**

**TENSION ADJUSTMENT / SENSITIVITY:**

**Remember about the good old words: If it’s not broke, don’t fix it!**

Your rest has already ‘tuned-in’.

There are two tension screws (#14) which are locked by counter nut (#15). The screws are thumb-knurled, no tool is needed to lock and unlock. The tension screws are metric M12x1.0 fine thread (one full rotation clockwise will move the screw one millimeter forward).

In case you want to change the tension setting, it is recommended to mark the tension screws & counter nuts before attempting to adjust the sensitivity. Use a marker, make a ‘dot’ mark between the tension screw and the counter nut, for instance at 12 o’clock. Once you found your preference setting, the marks should be back somewhere in between 11.30 & 12.30 o’clock. \*(This is only for your reference).

For fine tension adjustment, think about 1/60 rotation, or about one second movement in an analog watch. Yes, it’s quite sensitive adjustment.

The rest top could have some ‘play’ if the tension is too loose. Vice versa, the action could be ‘jerky’ if the tension is too tight.

Be sure that that the end tip of the tension screws give a little amount of pressure on the teflon sheet (#31) and ‘sliding plates’ inside (#30 & 31) to prevent ‘play’ on the rest top assembly.

It is recommended to ‘shake’ the joystick up & down in fast motion while adjusting the tension, this to ensure the end tip of the tension screws to ’sit’ properly into the ‘slots’ on the teflon sheet.

There are also two small set screws (#17) on the bottom of the coaxial unit, which give tension on the bearings (#34 & #35).

The center shaft (#13) is steel epoxy glued into the’ front’ bearing (the one in the outside) and it just ‘slides’ in the rear bearing (the one in the inside).

The center pin & joystick can be adjusted to have more rotational resistance by the front set screw (#17) located under the front bearing.

**SEB BALANCING WEIGHT SYSTEM (A.K.A. COUNTERWEIGHT):**

The provided regular counterweight consists of a main stub and two ‘slide rings’ of different size with locking thumb screws.

The concept is to ‘self balance’ the weight of the gun and the joystick action.

It will be secured to the opposite side where you attach the joystick (towards to the target).

You will need ‘to tune’ or adjust the slide rings to balance the weight of your gun.

The counterweight is tuned’ or well balanced when you move the joystick up & down with the same (equal) force. It’s simply by choosing the appropriate slide rings and adjust the rings back & forth with your gun on the bag/top.

The heavier your gun, the heavier the counterweight needs be.

With a well balanced counterweight you will get a super smooth-fluid & consistent joystick action, no matter how many pounds is your gun.

The joystick action for heavy gun will be as light & smooth as when you use the rest for a light varmint rifle. It will be an ‘ideal’ & consistent 22-24 oz force to move the joystick either for up & down. In practice you don’t want a too light or too heavy joystick action for a fluid & steady hold.

**WARRANTY:**

Your rest is covered with 30 days Money Back Guarantee and one full year warranty against any defect in materials and workmanship from the date of purchase.

Within the thirty days, just in case you don’t like or unsatisfied with the MAX rest you can return the rest for a full refund. However the rest must be returned in ‘like new’ condition in the original packaging, with no any damage or modification.

Contact your Dealer or Seb if you wish to return the rest.

**MAINTENANCE & STORAGE:**

**Do not change the maker’s setting or try to disassembly the coaxial unit unless you are really understand how the parts & details work and you have the skill to fix it. Doing so may also void the warranty.**

Your MAX rest is built from the finest material available and will give a life time of use if properly cared for. No special treatments or maintenance are required, however common practice applies here: Do not drop your rest, and keep away the center shaft and all parts form hard bump. Do not expose your rest to rain, dust and extreme temperatures for a long time. Store your rest in a well-built case with the joystick removed. Apply light lube on the rack gear posts, don’t let the dual posts ‘dry’.

**Please feel free to contact us if you have any problems with your MAX rest.**

Good shooting,

Sebastian Lambang.

[www.sebcoax.com](http://www.sebcoax.com)

sebastianlambang@yahoo.com

January 2013.

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2. Improved joystick tension adjustment by two thumb screws. No tool or wrench is needed to adjust the tension.
3. Built-in uplift and high quality teflon bearings for a super smooth action and ability to move quickly & precisely to the point of aim in one light movement.
4. Adjustable rest top design with “three-piece front bag” configuration with extra side-tension adjustment.  The front bag arrangement will accommodate any rifle fore-end width, from zero up to eight inches.
5. Broad range of MOA travel, about 40 MOA vertically and 44 MOA horizontally.
6. Unique “clutch-brake” system is incorporated to hold gun’s weight until the coaxial unit is locked.   The “brake” will hold most gun weights.
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The “main base” (#1) has a built-in carrying handle. The two large columns (#2) are press fitted into the main base.

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The main base is equipped with two long leveling screws (#8), while the rear leg is equipped with a short “spike” screw (#10), to not interfere with the joystick operation.

The end tip of the leveling screws are equipped with steel end-cap protection.

Rear leg/screw for F-Class shooting is available.

**FRONT BAG:**

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The front bags are convex (half rounded) which will minimize ‘bite’ & twist on your stock when moving from a point of aim to another point of aim or different angle.

The front bag conforms to the IBS / NBRSA / WBSF Rules.

To fill the front bag, first set the carriage (coaxial unit #11) at the highest position.

Have some sand on hand (any type of sand you choose to use) and a small funnel.

The side bags have sand fill hole on the top, the long bottom bag has sand fill hole on either sides. The fill holes are folded down.

Remove the side plates #40 (first loosen the adjustable lever screws #41) then slide the plates off to the side.

The bottom bag is retained by two strips (retainer plates #38). Loosen the screws that hold the strips for about four full rotations, then pull / slide the bag off to the side. You do not need to completely remove the strips.

Don’t pack the bottom bag too hard. It is recommended to fill the bottom bag with sand for just about 70 % of its fullest capacity. Once you fasten the strips, the bottom bag will be compressed (more hard).

Slide the already filled bottom bag into the strips, and then fasten the screws. Make sure there is no “gap” between the strips and the top plate #37 to ensure the side plates to be able to slide properly on the top.

To fill the side bags you will need to remove the extra side-tension adjustment #43, and retainer plate #42 on the back. You may fill the side bags with sand to your desired hardness, however medium-hard is recommended. Also be sure the side bags are filled to equal hardness.

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Attach the counterweight on the opposite side / toward the target. Use the counterweight only when you shoot gun heavier than 30 lbs.

The **fore-end stopper** and the **bubble level** are attached in “up for up” mode.  You will need to interchange the stopper & the level if you would use the rest in reverse mode.

The fore-end stopper can be adjusted (tilted) up & down by a set screw #52.

**Keep the center shaft away from any hard bumps, also be sure to keep your rest with the joystick removed.**

**TENSION ADJUSTMENT / SENSITIVITY:**

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The counterweight is tuned or well balanced when you move the joystick up & down with the same (equal) force. It’s simply by choosing the appropriate slide rings and adjusting the rings back & forth with your gun on the bag/top. The heavier your gun, the heavier the counterweight needs be.

With a well balanced counterweight you will get a super smooth-fluid & consistent joystick action, no matter the weight of your gun. The joystick action for heavy gun will be as light & smooth as when you use the rest for a light varmint rifle. In an ideal world it would require 20-22 ounces of force to move the joystick either up or down. In practice you don’t want a too light or too heavy joystick action for a fluid & steady hold.

**WARRANTY:**

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 Good shooting,

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