



**blacx**

**WWW.BLACX.EU**

**ADVANCED RIDING SL**

## **JEWEL AM and XC (27.2 mm)**

**User manual: English**

Last update: May 2009

At **BLACX** we dream, we design, we test our products and we fabricate them in Europe, because we believe that only proximity and daily experience with the product and the distinctive processes that shape it, can allow you the development of a component for the practice of mountain biking in the right direction.

The **Jewel** represents the introduction of a range of innovative and exclusive components, which we will be introducing to you, and which are destined to improve the teamwork between rider and bike. Components which, as our motto "**ADVANCED RIDING**" shows, will take your riding to a more advanced level.

We hope that our components will improve your rides, training session and competitions.

If you have any questions or suggestions, please send us an email to [info@blacx.eu](mailto:info@blacx.eu) and we will get back to you as soon as possible. We are interested in your opinion.

We recommend you subscribe to our newsletter, you can do this very easily at our website [www.blacx.eu](http://www.blacx.eu), and we will keep you informed of our progress.

And if you register your **Jewel**, also on our website [www.blacx.eu](http://www.blacx.eu), we will send you updated support information for your components.

## The Jewel range

The Jewel is a high performance component which, as a result of intensive design and engineering, is a combination of ergonomics and usability in a simple and elegant form.

Useful information about the Jewel range:

### MCL System

Magnetic Control Locking System

The MCL is a mechanical locking system that is located inside the Jewel, we have designed it exclusively for Jewel and it has the unusual feature of an externally controllable magnetic locking system. This allows us to activate and deactivate the locking from outside the tubes, therefore eliminating the need for holes which would weaken the walls of the tube and allowing the cable to be located in the main tube of the Jewel.

### Guide system

The telescopic system of the Jewel uses 3 guide rails that are distributed at 120° from each other, which provides a better load distribution, allows better adjustment and prolongs the life of the rail pins, compared to other conventional guiding systems.

### Remote control

The Jewel always come with a remote control to be controlled from the handle bars, never from the seat post, as with advanced riding taking your hands off the handle bars can mean eating dirt. For your safety, we do not fabricate seat posts without remote control.

Since the position of the controls on the handle bars is very personal, the Jewel control is designed to be used both for left and right handed riders. It takes up very little space so you can position it between grips, break levers and shifters, wherever is comfortable for you.

At BLACX we recommend to install the control on the left side of the handle bars, as your left hand is less occupied than your right hand, as the moment where you change the position of your seat usually coincides with the moment you change your gears. Position it right near your grip with your preferred inclination. (Read more in "INSTALLING YOUR JEWEL")

### Height control

The heights of the Jewel are defined according to the different types of terrain, slopes or irregularities that nature presents us with. Our experience has showed us that too many intermediate positions or positions that are not well defined make it difficult for the rider to know with certainty what position the seat is in. Determined positions allow easy learning, which will happen subconsciously, of the movement that the rider can perform with his seat post in each situation, which would be necessary if the height of the seat is always different, caused by not being well-defined.

Changing from one position to another always requires slight physical contact, to unlock, in combination with pressing the control, which allows you to have a constant knowledge of the position the seat post is in and therefore avoiding the seat post to be an unexpected obstacle. This also provides a better control of the height changes.

These details that might seem insignificant in relaxing moments of your rides will be very important in intense moments and most important during competition.

## Differences between Jewel XC and Jewel AM

Currently Jewel is available in the models: Jewel AM and Jewel XC.

Both have the same functions and the difference is that Jewel AM is more focused on All Mountain and Enduro with 110mm of travel and 4 determined positions, whereas the Jewel XC with 80mm of travel and 3 positions is more suitable for Cross Country, but also for Downhill Marathon and Avalanches.

This is because varieties like enduro implicate a major variety of slopes in the terrain than Cross Country or Downhill Marathon, where positive or negative slopes seem to dominate, one or the other respectively, and where consequently not that much variety of seat post travel is required.



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## Important for your safety!

The Jewel works with a high pressure spiral shaped spring. For your safety and for appropriate use, only operate the Jewel when installed on the bike, the seat correctly fixed and making sure the protective guard is properly shut.

Magnetism: The MCL system that is used in Jewel contains magnetic parts and therefore people with pacemakers should not be in contact with it. Computer discs, credit cards and other elements that are sensitive to magnetism could be damaged.

The Jewel must be installed by a qualified bike mechanic.

When you are not using the seat post for a longer period you should keep it in the extended position.

Always install the Jewel on the bike with the cable towards the front and with enough space for the cable casing to exit freely. Make sure that it is not under strain.

## Installing your Jewel

1. Remove the existing seat post of the bike. Clean and check the interior of the seat tube of the frame.
2. Change the seat clamp from a quick release to a bolt. (optional)
3. If your bike does not have one of the standard diameters of 27.2, 30.9 or 31.6 mm, insert the corresponding shim.
4. Install your seat on the Jewel:
  - a. First introduce the thin metal bar horizontally through the holes in the top of the Jewel.
  - b. Place 2 screws in the holes of the thin metal bar and screw them 3 turns into the T-shaped pieces.
  - c. Turn the Jewel and the seat upside down and place the T-shaped pieces on the rails of the seat, so that the seat is hanging from them.
  - d. Introduce the half-tube piece between the seat and the top of the Jewel and fit the grooves on the rails of the seat.
  - e. Tighten the 2 screws in order to achieve the correct alignment of the seat. We recommend to first tighten the front screw and then the back screw. The thin metal bar needs to remain in the centre of the Jewel. Once installed on your bike you can do a final adjustment of the seat position.
  - f. Do not excessively tighten the screws; use a maximum of 4Nm for normal use and 5 Nm for extreme use. Tightening excessively might produce deformations in the seat rails and/or screws. It might even damage some parts.
  - g. You may need to re-tighten the seat bolts after your first ride. This is normal.
5. Insert the Jewel into your bike, with the cable facing forwards (facing the handle bars).
6. Regulate the seat height with respect to the frame with the Jewel extended. Make sure that at least 90 mm of the Jewel stays inside the frame, to avoid damaging the seat post and/or the frame. (find the indication of the minimum insertion on the bottom tube of the Jewel)
7. Tighten the screw that holds the Jewel in the bike at a force of maximum 7 Nm.
8. Install the control of the Jewel on the handle bars. Make sure the cable does not get stuck nor is under strain when installed on the bike. Tighten at maximum 2Nm.

To find the correct position of the control, we recommend the following steps:

  - a. Install the Jewel between the grip and the shifter. The cable can pass under or over the brake lever.
  - b. Tighten the screw of the clamp enough for it to stay fixed to the handle bars, but loose enough to move it with your hand.
  - c. Sit on the bike and hold onto the grip like you would while riding.
  - d. Place your thumb or thumb and index finger (depending on type) on the shifter, as if you were going to use it.
  - e. Without moving your hand, move your thumb from the shifter up to the position right above the shifter. In this position, and as close as possible, you place the thumb control of the Jewel and press it several times, changing between the shifter and the control of the Jewel, until you have found the most comfortable movement.
  - f. Tighten the clamp and you are ready. .

## Using your Jewel

¡ATTENTION! Try not to ride too aggressively during your first couple of rides, until you have familiarized yourself with the working of the Jewel. You will familiarize yourself with the Jewel fast and with little practice.

The Jewel AM has 4 positions (in order of minimum to maximum height):

- DOWNHILL
- EASY DOWNHILL
- TECHNICAL CLIMB
- CLIMB

The Jewel XC has 3 positions (in order of minimum to maximum height):

- DOWNHILL
- EASY DOWNHILL / TECHNICAL CLIMB
- CLIMB

### **From the CLIMB position (highest) to the DOWNHILL position (lowest):**

Press the control lever (keep it pressed), release the pressure that the body bears on the seat for an instant and then sit down.

When the seat reaches the lowest position you can stop pressing the lever. The Jewel is now locked into the lowest position.

### **From the CLIMB position (highest) to the EASY DOWNHILL / TECHNICAL CLIMB position (intermediate):**

Press the control lever (keep it pressed), release the pressure that the body bears on the seat for an instant and then sit down carefully so you do not pass the position.

When the seat reaches the desired position you can stop pressing the lever. The Jewel will lock easily into the intermediate position.

### **From the DOWNHILL position (lowest) to the CLIMB position (highest):**

Press the control lever (keep it pressed), slightly push the seat down with your body weight and then lift your weight off the seat for the seat to come up. If you keep the lever pressed, the Jewel will rise to the highest position (CLIMB).

### **From the DOWNHILL position (lowest) to EASY DOWNHILL / TECHNICAL CLIMB position (intermediate):**

Press the control lever (keep it pressed), slightly push the seat down with your body weight and then lift your weight off the seat for the seat to come up. When the seat is released you quickly stop pressing the lever and the Jewel will lock in the first position it encounters.

## Basic maintenance

¡ATTENTION! The Jewel works with a high pressure spiral shaped spring. Always do the maintenance with caution, in the extended position and do not get close to the Jewel with your face or vital areas while manipulating it.

¡ATTENTION! Do not use the locking system if the protective guard is not properly shut.

We recommend a quick clean after each ride, using a humid cloth. It is not recommended to wash the Jewel with a high pressure jet wash. If you do so, do not clean the Jewel from a distance of less than 50cm and only briefly.

After every 5 rides we recommend greasing the Jewel. You will need to dismount it:

1. Put the Jewel in the extended position, remove the seat and introduce 6-8 drops of high density liquid lubricant (you can use transmission lubricant for the winter) into the hole on top of the Jewel.



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2. Press the control lever 4 times and keep it pressed in the position of unlocking, push the seat post up and down by hand 4 times in a row (it is recommended to wear gloves to move the Jewel without the seat).
3. Loosen the protective cap (do not remove it from the tube, it is mounted under pressure and you will need special tools to mount it again), and carefully brush gel lubricant for interiors on the first 5cm of the visible tube.

Contact us for replacing broken or worn out parts. We offer kits, repairs and servicing.

## Replacing the cable

Steps to replace the cable (put the Jewel in extended position):

1. Remove the protector cap by unscrewing it.
2. Loosen the screws that hold the cable, just enough to move the cable (do not remove it completely) Use a 0,05mm Allen key tool.
3. Remove the cable, pulling it from the control lever.
4. Do not remove the spring and magnet mounting bracket.
5. Cut the new casing at the desired length. Introduce one end in the control lever and the other end in the hole of the main tube.
6. Introduce the cable through the control lever until it comes out at the hole of the main tube, and then introduce it in the magnet mounting bracket.
7. Tension the cable and push the magnet mounting bracket down, leaving a gap of 7-8 mm between the bracket and the base.
8. Carefully tighten the screws until the cable stays in place (not much pressure is needed to fix the cable, 2Nm is enough)
9. Cut the cable with needle nose cable cutters, as close to the bracket as possible.
10. Screw the protector cap back on.

## Guarantee

BLACX provides a guarantee, during a period of 2 years from the original purchase date, that their products are deprived of material or production defects.

The BLACX seat post comes with a 2 year guarantee covering material or manufacturing defects. This guarantee starts on the original purchase date, is only applicable to the original owner and is not transferrable.

Products that have been damaged caused by bad usage, installation or accidents are not covered in this guarantee. Our authorization is required to return a product in guarantee. P&P and labor costs are not covered by the guarantee. You can find BLACX installation manuals on the internet, on [WWW.BLACX.EU](http://WWW.BLACX.EU)

BLACX or its suppliers can not in any case be held responsible for direct, indirect, special, unforeseen or emerging damage.

More information on **[WWW.BLACX.EU](http://WWW.BLACX.EU)**



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