



bebionic Multi-Flex
Technical Manual

Introduction

The Multi-Flex Wrist is spring loaded to the center of travel so it can flex in any direction as needed to adjust to the loads placed on it. The latch enables the wrist to lock in 30° flexion, neutral (0°) or 30° extension. When locked the wrist still permits lateral deviation to take place.

The latch mechanism is passive, meaning that the button only enables or disables the latch. When the latch is enabled, the wrist can lock. When the latch is disabled, the wrist can unlock. This makes it easier to lock or unlock because the wearer is not required to hold the wrist in a specific position and engage or disengage the lock at the same time.

Note: Multi-Flex wrist is only available for bebionic medium and large hands



Dimensions and Weight

Principle Dimensions	Medium	Large
A. Thumb Tip to Hand Base	151mm (6")	155mm (6 1/8")
B. Multi-Flex Wrist Diameter	59mm (2 1/4")	59mm (2 1/4")



Part Number	Hand Build Height †	Weight	Description
BBHMDRQD-MF	151mm + 25mm (6" + 1")	691g (1lb 8oz)	bebionic3 Medium Hand with Multi-Flex Wrist - Right
BBHMDLQD-MF	151mm + 25mm (6" + 1")	691g (1lb 8oz)	bebionic3 Medium Hand with Multi-Flex Wrist - Left
BBHLGRQD-MF	155mm + 25mm (6 1/8" + 1")	698g (1lb 8oz)	bebionic3 Large Hand with Multi-Flex Wrist - Right
BBHLGLQD-MF	155mm + 25mm (6 1/8" + 1")	698g (1lb 8oz)	bebionic3 Large Hand with Multi-Flex Wrist - Left

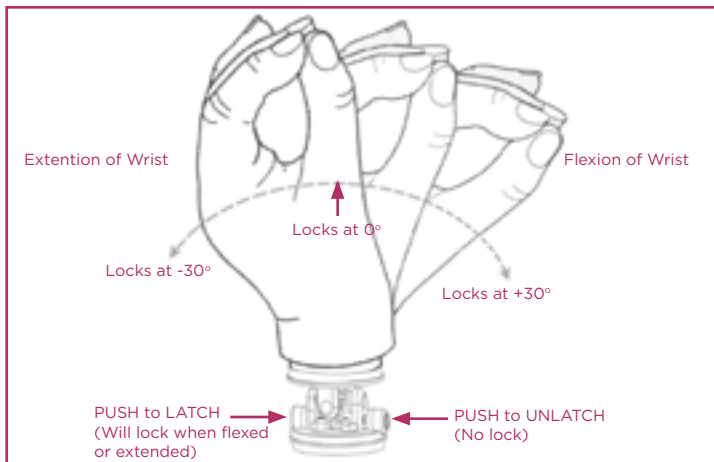
† Build height comprised of thumb tip to wrist base measurement, plus the height of the lamination ring.

Lock Operation

Locking and unlocking the wrist is a two-step process. Pressing the wrist button will either latch or unlatch the lock in preparation for the wrist to lock or unlock once it is moved to the desired position.

To lock the wrist, first push the button in to latch the lock (as shown in the image below), then move the wrist to the desired locking position i.e. neutral (0°) or flexed ($+30^\circ$) or extended (-30°).

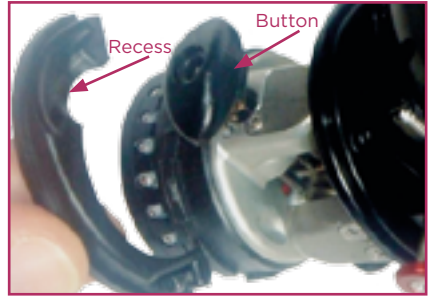
To unlock the wrist, first push the button to unlatch the lock (as shown in the image below), then relieve the load from the lock by pushing the hand a little past the fully flexed or fully extended position, until you hear a 'click' which indicates the lock is released.



In summary, to lock, push the latch button in and bend wrist to maximum angle to lock in flexion or extension. To unlock, push latch button out and bend wrist again until it clicks and wrist will return to the center.

Installing the Multi-Flex cover

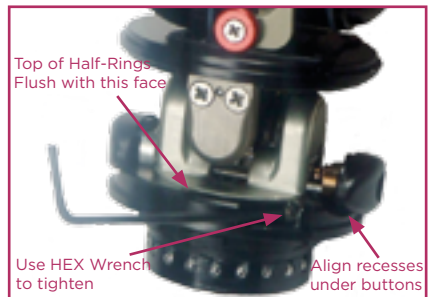
1. Place one of the Half-Rings on the Quick Disconnect and align the recess with one of the oval-shaped buttons.



2. Install the second Half-Ring from the opposite side.



3. Make sure the recesses in the Half-Rings are aligned under the oval buttons. Start tightening both screws using the supplied hex wrench. Check the alignment and make sure the top of the Half-Rings is flush with the top of the Quick Disconnect.



4. Orient the oval shape of the Cloth Cover with the oval shape of the installed Half-Rings as shown.



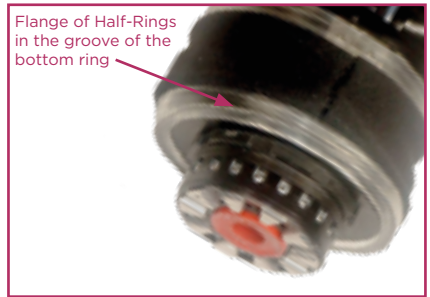
5. Place the Cloth Cover onto the device at an angle. Guide the top ring over the Quick Disconnect and then over the installed Half-Rings.



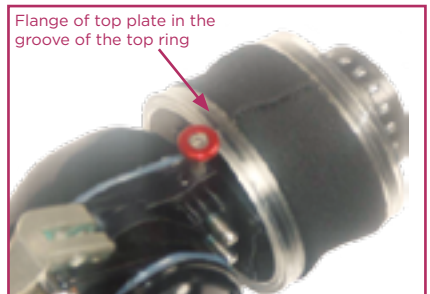
6. Slide the Cloth Cover up until the bottom ring is against the Half-Rings.



7. Keep the ovals of the Cloth Cover and the device aligned, Stretch the bottom ring up onto the Half-Rings, making sure the flange is in the groove of the bottom ring all the way around the cover.



8. Pull the top ring of the Cloth Cover up and onto the top plate of the Multi-Flex Wrist Assembly. Make sure the flange of the top plate is in the groove of the top ring all the way around the cover.





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