



Mantis Shoulder Pad

Servicing Instructions

Tools Required:

- #2 Phillips Screwdriver
- Sharpie Marker
- Torque Driver (inch/lbs.) *Recommended

Overview

The Mantis Shoulder Pad Frame is held onto the Pan Base by 4 Phillips head screws. The Shoulder Pad frame can be re-centered over the Dovetail so that it will be properly centered on the optical axis of the camera.

Once the frame is removed from the Pan Base, it is also possible to adjust the locking position of the lever if needed.

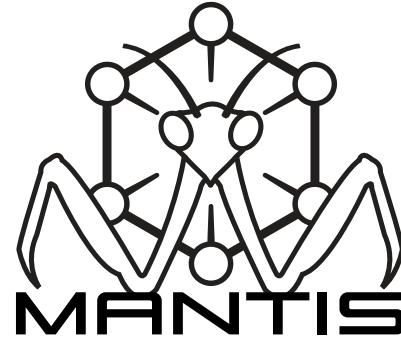
To Adjust the position of the shoulder pad mount, use a #2 phillips screwdriver and loosen all four screws.

If only adjusting the position of the Shoulder Pad Frame, place a finger on the frame to keep the lever in its current position before removing all the screws. Remove all four screws and slide the Shoulder Pad Mount in the direction needed.

The Shoulder Pad should ideally fit directly under the optical axis, or wherever the operator finds it most comfortable.

After positioning the Shoulder Pad Frame where desired, replace the four screws and tighten each one with light pressure.

To ensure proper torque of the screws, it is recommended to use a torque driver. If the Shoulder Pad Frame is going to be left in the same location for quite a while, it is also recommended to use some low strength lock-tite. The torque setting for the screws without lock-tite is 18 inch/lbs. The torque setting with lock-tite is 16 inch/lbs.



Reset the Position of the Locking Lever on the Mantis

If the locking lever needs to be adjusted or if the Shoulder Pad Frame is completely removed, it may be necessary to reset the position of the locking lever.

Once the locking lever is removed from the spline head screw, finger tighten the spline head screw until it is no longer possible to rotate the Pan Base. Loosen the spline head screw just enough to unlock the rosette's. Place the lever on the spline head screw so that the lever is pointed toward 1 o'clock as shown on the next page.

Turn the lever clockwise to tighten the mechanism. The lever should reach a fully tightened state before hitting the wall on the Pan Base. If it does not, move the lever counter clockwise one tooth, and repeat the procedure. Make sure that the mechanism can rotate on both its axis when the lever is fully unlocked (1 o'clock).

Once the lever is properly set, it is a good idea to mark its position so that it can be easily referenced. With the locking lever in place, use a sharpie to draw a line from the center of the spline head screw outward to the edge of the lever.

Now that the locking lever is marked it can be removed and easily replaced in the same position.

Once the lever is in the proper position, refer to the above directions to replace the Shoulder Pad Frame in the desired position.



To Adjust the position of the shoulder pad mount, use a #2 phillips screwdriver and loosen all four screws.



Shoulder Pad Frame shown as far left as possible.



Shoulder Pad Frame shown at as far right as possible.



If the locking lever needs to be adjusted or if the Shoulder Pad Frame is completely removed, it may be necessary to reset the position of the locking lever.



Place the lever on the spline head screw so that the lever is pointed toward 1 o'clock as shown.



Once the lever is properly set, it is a good idea to mark its position so that it can be easily referenced.



With the locking lever in place, use a sharpie to draw a line from the center of the spline head screw outward to the edge of the lever.



Now that the locking lever is marked it can be removed and easily replaced in the same position.



Once the lever is in the proper position, refer to the above directions to replace the Shoulder Pad Frame in the desired position.