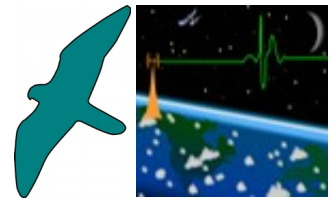
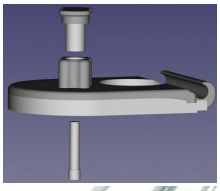
# aftermarket_8kX_hinge

Production and Development associated with...

3D Connected Printing, Soaring Industries LLC, "mirage335"



Aftermarket hinges to attach Pimax Vision 8kX to Modular Audio Strap, at angles different from those supplied by the original manufacturer Pimax. As a '3D printable' aftermarket modification, including derived third-party work under apparent GNU GPL v2 license, these alternative hinges are an independent offering.



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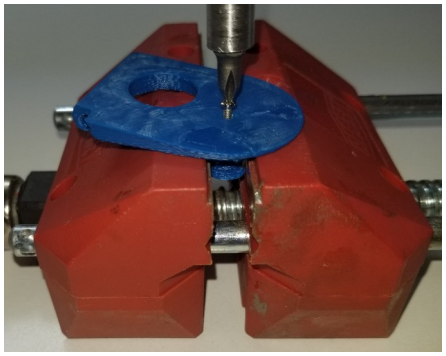
### Post to Base

If 'XY compensation' is used, the post may loosely fit in the base. Otherwise, these parts are likely to fit together tightly enough to require a vise to completely push together. Carefully avoid any off-axis force to prevent damage. Reject any parts that noticeably crack during this process.

### Post Rotational Alignment and Screw Tightening



While turning the screw to fasten the post to the base, the post may rotate. A vise may be used to constrain this undesired movement, preventing misalignment.

Only tighten the screw as necessary to completely pull together the post to base, or for the screw head to meet the plastic surface. Do not attempt to overdrive.

### Post Must Be Finger Tight

Once post is fastened to the base with a screw, the post must not rotate under the amount of pressure that could reasonably be applied by a typical human finger. That is to say it must be 'finger tight'.

### Matching Hinges and Number Readability

Identical angle hinges must be used for both left and right - if a 155deg hinge is used for the left, then a 155deg hinge must be used for the right. Mismatching these hinges will result in a subtle cause of discomfort for the end-user.

To minimize the risk of such mismatch, models may include numeric labels. These labels need not be clearly readable, but it is useful if they appear somewhat unique. Particularly important labels likely to be a starting point for most users - 155deg (shown here) or 161deg - may be further marked by running a permanent marker or perhaps paint along the resulting channel.

In addition, it may be helpful to place each pair of hinges in clear plastic bags.

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https://github.com/mirage335/aftermarket_8kX_hinge/tree/main/_ref/8kX_SMAS%20Hinge-thirdParty

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https://github.com/mirage335/aftermarket_8kX_hinge

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