

AT-CAP1

Cartridge Alignment Protractor



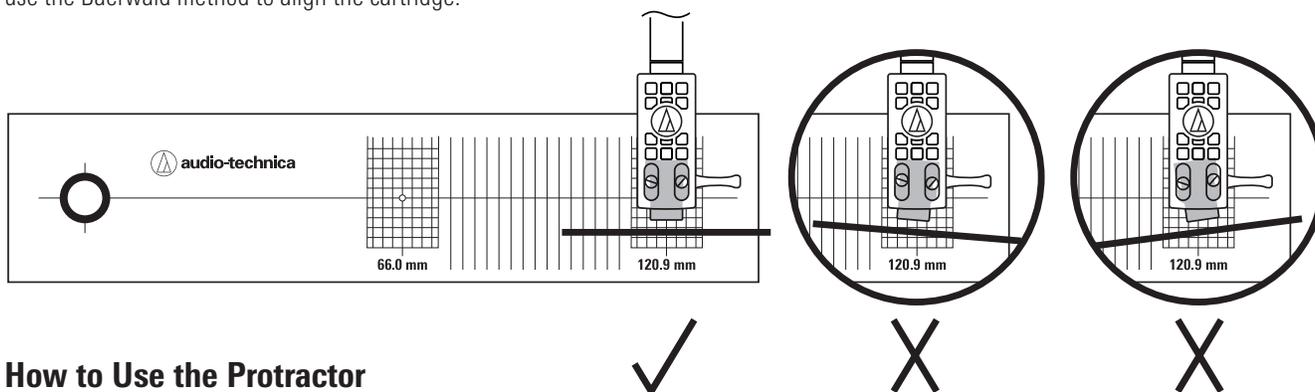
Thank you for purchasing this Audio-Technica product. Before using the product, read through this user manual to ensure that you will use the product correctly. Please keep this manual for future reference.

Safety Precautions

- Keep the product out of the reach of small children.
- Do not put the product in a location where it is exposed to direct sunlight, near heating devices, or in places with high temperatures, high humidity, or high concentrations of dust.
- Do not subject the product to strong impact.
- When aligning the cartridge, handle the stylus and tonearm gently to avoid damage.
- Turn off the turntable during alignment to prevent accidental movement, which could damage the stylus.

About the Protractor

This protractor uses the common Baerwald alignment method. To confirm that this protractor is appropriate for use with your tonearm, check the effective length measurement in your tonearm's specifications or user manual. Effective length is the distance from the tonearm pivot (where the tonearm rotates) to the stylus tip. Typically, if the effective length falls between 222 mm (8.7") and 250 mm (9.8") you can use the Baerwald method to align the cartridge.



How to Use the Protractor

1. Make sure the turntable is level.
 - Use a bubble level to check both the platter and the surface where your turntable sits.
2. Fit the hole in the protractor over the turntable spindle so that the protractor lies flat on the platter.
3. Loosen the screws securing the cartridge to the headshell.
 - Loosen the screws just enough to allow the cartridge to be adjusted (forward, backward, or rotated slightly).
4. Align the cartridge at the inner null point (66.0 mm).
 - Move the tonearm so the stylus rests on the 66.0 mm null point. Ensure the stylus tip aligns precisely with this point and check that the cartridge body (or cantilever) aligns with the grid lines on the protractor. Move the cartridge forward/backward or adjust the angle to make it parallel with the grid lines.
5. Align the cartridge at the outer null point (120.9 mm).
 - After aligning the stylus at the inner null point, move the tonearm to the outer null point at 120.9 mm and align there as well.
6. Recheck the alignment at both null points.
 - Keep making fine adjustments at each null point – moving the cartridge forward or backward or rotating it slightly – until you achieve perfect alignment at both points. It may help to use a magnifying glass.
7. Tighten the mounting screws to secure the cartridge to the headshell.
 - Hold the cartridge in place while you tighten the screws. Do not overtighten as this could move the cartridge out of alignment.