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Turntable protractor pdf

On this page you can download free cartridge alignment protractors for quick and accurate alignment of cartridge / stylus overhang, offset and null points. We have truly universal two-point tools such as the Stupid Protractor, and tonearm specific types for Audiocraft, Helius, Heybrook, Linn, Rega and Thorens, all with easy to follow instructions detailing how to align a cartridge. To determine which protractor is suitable for your tonearm please read Seb's Protractor User Guide and please check scale carefully after printing and resize if necessary. Other useful alignment tools Tonearm Database Mounting dimensions and alignment data for most turntables and tonearms - the original and best! Alignment Calculator Pro The latest version of the VE alignment calculator is the swiss army knife of alignment tools, now with comparison plots of tracking error and distortion for up to 4 tonearms/alignments Compare your arms standard geometry to the most popular alignment geometries Calculate optimised alignment geometry for your tonearm Compare geometry and distortion of up to 4 different tonearms Optimise alignment for your own record collection by adjusting for optimal groove radii Discover the optimal mounting distance for a known effective length Calculate geometry for your DIY tonearm design Overhang Shift Calculator Assess the effects of changing stylus overhang while keeping the original angle of the cartridge in the headshell Generic (universal) protractors Stupid Protractors A pair of universal two-point protractors, one using the more common Baerwald alignment method as used on 99% of commercial products and the other Loeffgren B (see Seb's user guide above for an explanation of the difference). Simple, accurate and widely compatible. If you aren't sure which type to use and want a free alternative to the common shop bought designs, download this one. Stevenson alignment protractor Another universal protractor, this time using the Stevenson alignment method with null points at 60.325 mm and 117.42 mm. This is especially useful for arms which have limited room in the headshell slots and can't be aligned satisfactorily with a Baerwald type. Chpratz Protractor Designed to allow users to align their cartridge at any two null points between 60 and 150mm. A quick and easy way for experimenters to judge the sonic merits of different alignment methods. For example, this could be used in conjunction with the tonearm database to compare the tonearm manufacturers alignment with the popular Baerwald type found in most aftermarket protractors. Universal Stuff Protractor V.2.0 A mirror protractor, a variation on the classic two-point protractor - suitable for experienced users only! Kearns Universal Arc protractor The Arc protractor is suitable as a cartridge alignment protractor for specific tonearm lengths / mounting distances only (see instructions enclosed) Turntable specific protractors These protractors are tonearm specific or use alternative alignment methodology. AudioCraft AC300C protractor Suitable for the Audiocraft AC300C tonearm only Helius Aureus protractor Suitable for the Helius Aureus tonearm only Heybrook Universal alignment protractor Universal two-point protractor that uses Heybrooks chosen null points of 63.5 and 120mm Linn Itok / LVX / LVX+ protractor / mounting template This tool is suitable for accurate mounting and alignment of all Linn mounting pattern tonearms. Seb's Arc Protractors Arc protractors allow super fast, accurate cartridge alignment. Please Note The alignment curve on an arc protractor is only suitable for the stated mounting distance. DO NOT use an arc protractor unless it matches your mounting distance exactly. Linn Baerwald alignment protractor Suitable for Linn tonearms mounted at 211mm mounting distance. Print on A3 sized paper. Includes integral strobe disc in 3 versions, 50Hz, 60Hz and 300Hz. Rega Baerwald alignment protractor v.2 Suitable for Rega tonearms only, mounted at exactly 222mm (standard) mounting distance. This single point design is especially quick and easy to use and includes an arc for rapid double checking. Rega Stevenson alignment protractor v.2 Suitable for Rega tonearms mounted at exactly 222mm (standard) mounting distance. Identical to the Baerwald protractor above but designed using Stevenson null points which gives alignment closer to Regas and is useful when the headshell slots don't give enough room to align your chosen cartridge using the Baerwald design. Technics Arc protractor Suitable for those Technics turntables that have an arm mounting distance of exactly 215mm, such as the SL-1200/1210/1300/1400/1500/1600 etc. Please check the tonearm database for the mounting distance of your arm before using this protractor. Note that Technics arms do not use baerwald alignment as standard, so you may have to skew the cartridge in the headshell in order to align with arc. Technics Arc Protractor Instructions Thorens Arc protractor v.2 Suitable for those Thorens tonearms that have a mounting distance of exactly 215.6mm. See enclosed instructions for compatible tonearms. All Cartridge / Tonearm alignment protractors on this page are freely downloadable for non-commercial use. What is a phono cartridge alignment protractor? An alignment protractor is a tool for aligning the stylus of a turntable cartridge as precisely as possible. This is an important step when setting up a record player. Precise alignment minimizes noise and inner groove distortion. Vinyl records sound better and last longer with a well aligned needle. With a pivoted tonearm and the phono cartridge mounted at an offset angle, there are usually two null points at which the stylus is perfectly tangent to the grooves on the record surface. At these points the tracking error is zero, so no additional distortion is caused by the stylus being at an angle. The exact location of the null points also determines where on the record one will hear the most tracking distortion. A turntable protractor is a tool for aligning the stylus at the null points. Are alignment protractors universal? 2-point protractors and sightline protractors are universal and can be used on any turntable (provided the slots in the headshell are long enough to allow for the chosen alignment geometry). Arc protractors on the other hand are designed for a particular record player's pivot to spindle distance. What makes arc protractors so easy to use? The great advantage of arc protractors is that overhang and offset angle are set independently. This makes aligning the cartridge easier than with a 2-point protractor. Accuracy is easier to achieve than with a sightline protractor. Which kind of turntable protractor is the best? Universal 2-point, sightline or arc protractor? If the pivot to spindle distance is known, using an arc protractor generator is highly recommended. If it is unknown, a universal protractor will do the trick just fine. The geometry can be set to the same specifications for either alignment tool, so the results should be the same if carefully done. Where can I get a protractor for my turntable? This site allows to generate all types of alignment protractor free of charge. They can simply be printed out with a home printer. No download of software required. Where can I download an protractor for cartridge alignment? Use one of the protractor generators on this site, open the browser's printing dialogue and select "save as PDF" instead of a printer. To save a protractor for future use, you may also bookmark it or save the URL. It is also possible to share your protractor with others by simply sending them a link. Which alignment geometries and groove areas can I choose from? The alignment tools on this site support them all. Choose between Baerwald, Löffgren B and Stevenson alignment geometries. IEC, DIN, JIS standards for the grooved area of the record can be selected as well as custom dimensions for the groove area and custom null points. The arc protractor generator can even figure out null points from the pivot to spindle distance, overhang and offset angle as specified by turntable manufacturers. Why not use an overhang gauge instead? There are various types of overhang gauges that come with turntables. Gauges are tools for setting a certain headshell tail to stylus tip distance. The actual alignment geometry depends on the dimensions and shape of the tonearm. Overhang gauges make alignment quick and easy, but they are not the most accurate tools. To double check an alignment performed with an overhang gauge, please make sure to generate a protractor that matches the alignment specified by the turntable manufacturer precisely. A Baerwald protractor will not be compatible with a Stevenson alignment, as used by many Japanese turntable manufacturers. And Stevenson protractors will only be good for double checking when designed for the right inner and outer groove dimensions. How do you measure a stylus overhang? The protractors generated by this site will help to set the correct stylus overhang for the chosen geometry: On an arc protractor, the overhang is set correctly when the stylus can follow the arc all the way. On a two point protractor it is set correctly when the cartridge is aligned at both null points. Does every cartridge need precise alignment? Spherical styli are less sensitive about alignment than more advanced types such as elliptical, microline or Shibata styli. This means they are easier to set up, but you should still try to align them well for best results. The tiny microline stylus of an AT-VM95ML phono cartridge requires precise alignment What else do I need to know to set up my turntable? Cartridge alignment is important, but it's only one of many steps in setting up your turntable. Don't forget about anti-skate, vertical tracking force (VTF), vertical tracking angle (VTA), stylus rake angle and azimuth. What is cartridge loading and why does it matter? The phono cartridge forms a resonant filter with the input of the phono preamp. If the technical parameters are well matched, the frequency response will be close to linear. What is cartridge compliance? The cantilever of a turntable cartridge has a certain stiffness. It pretty much acts like a spring and is part of a mechanical system that involves the entire tonearm. This system will resonate at a subsonic frequency. The cartridge compliance needs to match the tonearm well, otherwise this resonance may cause problems. Use the resonance calculator to figure out whether a cartridge will work well for your record player.

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