

Optimized Transmission Line (OTL) Cantilever/Stylus Assembly

Grado's OTL provides an ideal transfer of the signal from point to point, e.g., stylus to cantilever to magnet to coils, etc. This has been achieved by eliminating resonance at each of these key junctions. The transmission line cantilever consists of separate sections that are telescoped into each other. All sections are made of different alloys, some sections hollow, other sections solid. These sections are bonded together with materials that act as dampers, and are coated with a black proprietary material which controls and absorbs resonances that travel on the surface of the cantilever (known as skin effects). The OTL stylus/cantilever design will make your records sound quieter, improve the height, width, and depth of the soundstage, and offer more detail than previously obtainable. Cartridge Holography does exist...and that is what Grado's OTL technology is all about, more performance.

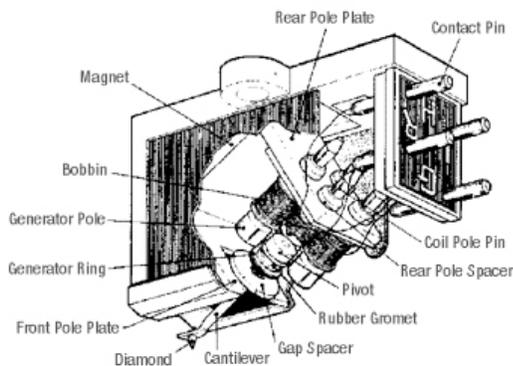
Pivoted-Fixed Axial Cantilever/Stylus Generator

This design feature is basically quite simple. The "OTL" cantilever shaft is brought to a fixed axial pivot that supports the entire cantilever assembly. A miniature element attached to the end of the cantilever is allowed to move freely within the lines of flux of a stationary magnet and coil structure. This system of support is mechanically more accurate (more linear) than conventional "teeter-totter" designs that utilize an iron armature to balance the mass of the cantilever. The teeter-totter design is supported in the center with a rubber donut mounting. The fixed axial design has a very low tip mass, which results in lower distortion, improved transient response, and longer record life.

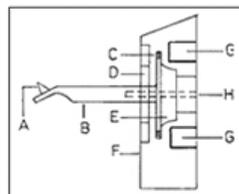
Flux-Bridger Generator System

The Flux-Bridger design uses four separate magnetic gaps that the miniature element of the cantilever bridges. The miniature element moves between opposing flux gaps creating an increase in flux in one gap while reducing it in the other. The four separate magnetic gaps create a highly efficient and perfectly balanced system. This design requires fewer coil turns than conventional designs.

The Anatomy of a Grado Phono Cartridge



- A. Stylus
- B. Cantilever
- C. Miniature Generating Element
- D. Armco Iron Disc
- E. Rubber Grommet
- F. Stylus Assembly Housing
- G. Generator Pole Pieces
- H. Fixed Axial Pivot



Hand-Built in the USA With 100% Quality Control

Each individual cartridge manufactured by Grado is hand assembled and tested for frequency response, channel output, channel balance, phase linearity, inductance and resistance. This meticulous care in design and construction lavished on each Grado cartridge contributes to an unchallenged consistency of performance and guarantee of reliability.