

**The Model SLT-12U Straight Line Tracking Turntable.** Reproducing the total signal and achieving maximum channel separation has always been a problem with conventional tracking tone arms since the introduction of stereo discs. Marantz has solved this problem with the new SLT-12U Universal Cartridge Straight Line Tracking Turntable. After the original recording is taped, it is necessary to create from it a master disc, which is used to mass manufacture the discs you purchase. This stereo master disc is cut with a special lathe, which is controlled by signals from the original tape recording. The cutting head of this lathe travels across the master disc in a straight line, and the grooves are cut proportionately to the volume of the sound fed to it from the tape; as the sound ebbs, the grooves narrow—as the sound swells, they become wider. Thus, both the width of the grooves (shown highly-magnified below) and their depth (pictured below) vary proportionately with the amount of sound fed by the tape, and also with the higher and lower frequencies of the sound. Each side of the groove carries a separate signal—one for each channel. It is the two sides of each groove together that comprise the total stereo signal being recorded. The grooves of the master reproduction disc—and those of all discs subsequently pressed from the master—carry the *total sound originally recorded*. In order to reproduce the *total sound originally recorded*, the playback tone-arm and cartridge must duplicate *exactly* the straight line path of the cutting head and the angle of the cutting stylus. This is exactly what the Marantz SLT-12U tone-arm does. *It tracks across the disc in a straight line, following the path originally taken by the master disc cutting head—as you can easily see in the multiple-exposure photo below.* A conventional tone-arm creates an arc in its travel across the disc; because there is no arc created, the cartridge stylus mounted in the SLT-12U arm cannot twist in the groove. Its angle *exactly* duplicates the angle of the cutting stylus, remaining always tangent to, and precisely seated in, the groove. To our knowledge, it is the only disc playback system which *can and does exactly* reproduce the total dynamics and full stereo separation of the *total sound that was originally recorded*. There are certain deficiencies which are inherent in conventional tone-arm tracking. Many manufacturers have devised ingenious methods to combat some of these deficiencies, but they are compromises at best. These deficiencies do not exist in the Marantz Straight Line Tracking Turntable. Marantz has perfected a trouble-free tracking and tone-arm assembly. With the magnificent Marantz SLT-12U disc playback system there is: no tracking error; no inner-groove distortion; no skating impulse; no deterioration of the elliptical stylus shape; absolutely uniform stereo separation and frequency response, from outermost to innermost grooves. The Marantz SLT-12 will accommodate virtually all existing, current or future cartridge weighing up to 10 grams (most current cartridges weigh five grams or less) and up to 3/4" height from the top of the cartridge to the stylus tip (most current cartridges are only 50% of this height). Installation is non-technical, and can be performed easily. To make universal cartridge selection possible, the SLT-12U tone-arm is equipped with a unique positive balancing device that permits simple balancing for any of the popular cartridges. The Marantz SLT-12U is not just a theory in practice—it is a proven product and it creates a truly great experience in musical enjoyment. \$295.00.

## FEATURES

### Zero Tracking Error—

Revolutionary straight line tracking arm holds stylus tangent to record groove at all times, eliminates inner groove tracking error distortion, skating force and uneven stylus wear—all inherent in conventional arm design.

**Rumble Free—12 lb. heavy-weight precision-machined turntable, tungsten carbide**

thrust bearing, and precision ground drive belt combine to provide maximum isolation from acoustic feedback.

### Widest Dynamic Range—

Marantz designed lightweight low mass arm produces finest tone quality and an unprecedented dynamic range.

**Cueing Control—**No need to ever touch pick-up arm. Positive cueing control automatically places arm in desired

groove-track, eliminating accidental scratching and damaging of prized recordings.

## SPECIFICATIONS

**Speeds—**33<sup>1</sup>/<sub>3</sub> and 45 R.P.M.

**Flutter and Wow—**Better than 0.04%.

**Tracking Error—**Non-existent (0 degrees/inch).

**Skating Force—**Non-existent when turntable is properly leveled.

**Drive Principle—**Hysteresis

synchronous motor belt (uscothane belt) driving the platter's outer rim.

**Rumble—**Virtually non-existent.

**Leveling—**Precision bubble-level adjustment.

**Dimensions and Weight—**18" wide x 14" deep x 6<sup>1</sup>/<sub>2</sub>" high (including walnut base); 27 lbs.

**Power Requirements—**120V, 60 cycles (50 cycles available).

**UL Listed.**

**Optional Accessory—**Dust cover.



