

model **301**  
**GARRARD**  
*World's Finest*  
 transcription turntable

**TESTED:** for performance by Audio Instrument Company, Inc., an independent laboratory.

**RESULTS:** Garrard Model 301 tested even better than most professional disc recording turntables...sets a new standard for transcription machines!

Read Mr. LeBel's report below

**3 Stock machines selected at random!**

Gentlemen:  
 We have tested the three Garrard Model 301 Turntables random from sealed unopened cartons in your warehouse stock. These three bore the following serial numbers: 867, 937, 3019. We used a standard Model WB-301 mounting base without modification, a Leak tone arm fitted with their LP cartridge, and a complete Leak preamplifier and power amplifier, model TL/10.

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Pickup and amplifier system conformed in response to the RIAA-new AES-new NARTB curve within  $\pm 1$  db.

Standards referred to below are sections of the latest edition, National Association of Radio & Television Broadcasters Recording and Reproducing Standards. Our conclusions are as follows:

**Turntable easily adjusted to exact speed!**

Microscope disc. In every case, speed could be adjusted to be in compliance with section 1.05, i.e. within 0.3%. In fact, it could easily be adjusted to be exactly correct.

**WOW less than NARTB specifications!**

which calls for not over 0.20% deviation. These values substantially agreed with those given on Garrard's individual test sheets which are included with each motor.

Garrard Serial No.	%
867	.17
937	.13
3019	.12

**Rumble less than most professional recording turntables!**

meter for indication. Attenuation was the specified 12 db per octave above 500 cps and 6 db per octave below 10 cps. Speed was 33 1/3 rpm.

Measurements were made in accordance with NARTB specification 1.05.01, using a stroboscope disc.

Measurements were made at 33 1/3 rpm in accordance with NARTB specification 1.11,

which calls for not over 0.20% deviation. These values substantially agreed with those given on Garrard's individual test sheets which are included with each motor.

Garrard Serial No.	%
867	.17
937	.13
3019	.12

Measurements were made in accordance with sections 1.12 and 1.12.01, using a 10 to 250 cps band pass filter, and a VU

meter for indication. Attenuation was the specified 12 db per octave above 500 cps and 6 db per octave below 10 cps. Speed was 33 1/3 rpm.

Signal to Rumble Ratio Using Reference Velocity of 7 cm/sec at 500 cps

This reference velocity corresponds to the NARTB value of 14 cm/sec at 100 cps.

**Rumble: checked by official NARTB standard method (—35 db. min.) —52 db.!**

Garrard Serial No.	DB
867	52
937	49
3019	49

The results shown are all better than the 35 db broadcast reproducing turntable minimum set by NARTB section 1.12. In fact they are better than most professional disc recording turntables.

Signal to Rumble Ratio Using Reference Velocity of 20 cm/sec at 500 cps

**Rumble: checked by Manufacturer A's methods —61 db.!**


Garrard Serial No.	DB
867	61
937	58
3019	58

We include this second table to facilitate comparison because some turntable manufacturers have used their own non-standard reference velocity of 20 cm/sec, at an unstated frequency. If this 20 cm/sec were taken at 100 cps instead, we would add an additional 23.1 db to the figures just above. This would then show serial number 867 to be 84.1 db.

**Rumble: checked by Manufacturer B's methods —84.1 db.!**

It will be seen from the above that no rumble figures are meaningful unless related to the reference velocity and the reference frequency. Furthermore, as stated in NARTB specification 1.12.01, results depend on the equalizer and pickup characteristics, as well as on the turntable itself. Thus, it is further necessary to indicate, as we have done, the components used in making the test. For example, a preamplifier with extremely poor low frequency response would appear to wipe out all rumble and lead to the erroneous conclusion that the turntable is better than it actually is. One other factor to consider is the method by which the turntable is mounted when the test is made. That is why our tests were made on an ordinary mounting base available to the consumer.

**Of greatest importance! Always consider these vital factors to evaluate any manufacturer's claim.**

Very truly yours,  


AUDIO INSTRUMENT COMPANY, INC. C. J. LeBel



Now there's a Garrard for every high-fidelity system



Write for free High-Fidelity Plan Book, Dept. GA-17, Garrard Sales Corp., Port Washington, N. Y.