

# AMI

# Service Bulletin

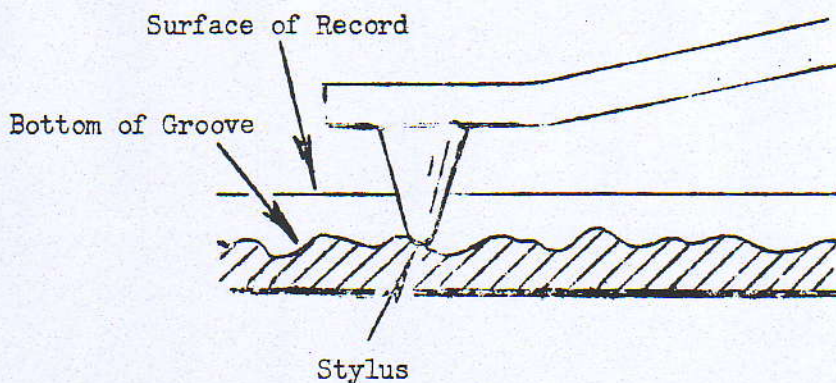
AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

November 21, 1958

BULLETIN NO. 172  
(Model "I")

SUBJECT: Care of Stereo Records

Stereophonic records have a very complex groove. The groove wiggles from side to side just as in a conventional record but it also moves up and down at the same time.



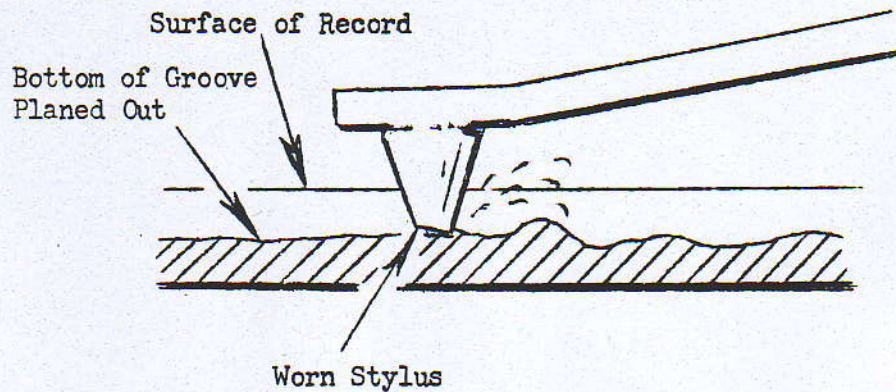
Part of the information required for stereophonic reproduction is recorded in these up and down movements of the record groove.

Because of the special groove, the pickup stylus must have high compliance (it must be free to move and follow the wiggles of the groove exactly) in the sideways and up and down directions.

All stereo pickups have good lateral (sideways) and vertical (up and down) compliance. Some monaural or standard pickups have very poor vertical compliance. If a stereo record is played with a pickup having poor vertical compliance, the stylus will gouge out the bottom of the groove and literally cut out the stereo effect recorded on the record. The stereo record could be ruined in a single play.



Worn styli are bad for standard records but they can be even worse for stereo records. As a stylus wears, its tip becomes chisel shaped. This forms a very efficient cutting tool that can ruin a record in short order.



For this reason, we supply a long wearing diamond stylus in our stereo pick-up and recommend that replacement styli have diamond tips. If sapphire styli are used for stereo machines, they should be replaced much more frequently than on monaural machines.

APPLICATIONS ENGINEERING

CLB/mal