

CHALLENGE SOLUTION

Regeneration of the
tonearm lifter
with PG 44LS

CASE STUDY

Industry: Audio Equipment Service
Localization: Poland

CASE

A VICTOR JL-B41 II turntable was brought in for service, requiring the regeneration of its tonearm lift. Although the mechanism's design turned out to be relatively simple, the precision of the tonearm components demanded a top-quality lubricant – one that would provide the right resistance and full control over movement.

CHALLENGE

Regenerating tonearm lifter – commonly referred to as “lifts” – is a complex task, as different manufacturers use varying designs and non-standardized recommendations regarding lubricants. In many cases, the service documentation does not specify an exact product, which complicates the restoration of smooth and precise mechanism operation.



SOLUTION

After thoroughly cleaning the mechanism from residue of previous lubricants and oily substances, we applied PG 44LS – a high-performance grease developed specifically for high motion control. This product offers the ideal viscosity and excellent aging resistance, which translates into:

- smooth raising and lowering of the tonearm,
- elimination of vibrations and jerks that could affect sound quality,
- long-term protection of the mechanism

Thanks to the use of PG 44LS grease, the service achieved near-factory precision, significantly surpassing the results typically obtained with standard lubricants.

As part of further testing, we are also considering the alternative use of PG 44A grease – which has slightly different properties – to further enhance the tonearm's handling comfort.

RESULT

- Full functionality of the lifter with preservation of the turntable's original mechanical characteristics
- Improved sound quality and extended component lifespan.
- Operational precision comparable to the factory-new condition.



CONCLUSIONS

- Regenerating turntable mechanisms requires not only technical expertise but also the use of suitable lubricants. Compared to previously used products, PG 44LS enabled a substantial reduction in vibrations, which directly translated into a cleaner and more stable sound. PG 44LS is an excellent choice for highly sensitive precision mechanisms, where every detail counts.