

INA Service Info

Design of Schaeffler VLS spare parts

Different appearance of parts for timing drives and front end auxiliary drives

During vehicle repairs, Schaeffler VLS spare parts may have a different design variant than the previously installed components. These differences are the result of targeted technical development and reflect the current state of the art.

Why might a Schaeffler VLS spare part look different from the removed component?
Schaeffler is one of the world's leading suppliers of components and systems for timing drives and front end auxiliary drives. The company has decades of experience as an original equipment manufacturer, and in the development and manufacture of products for the independent aftermarket.

When developing spare parts, Schaeffler VLS takes into account the technical requirements of the relevant application and the latest findings from research, development, and production. The component originally installed in the vehicle is used as a reference.

However, the spare part is developed independently in accordance with current technical standards and with an optimized design. This means that geometries, design features, and housing shapes can be different from those of the previously installed component. Space-saving, more efficient, or production-optimized solutions can also make the appearance different.

The different design is therefore evidence of targeted technical development that ensures function and precision.

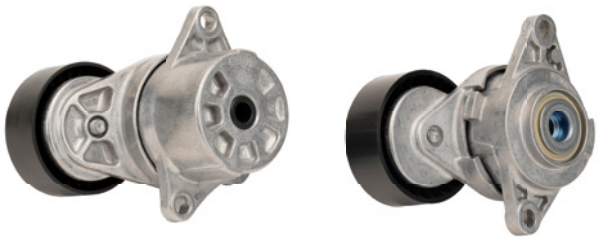

Figure 1: Example of different design features (Schaeffler VLS component on the right)

The external features are not the only decisive factors for the assessment of a spare part; most important is its technical design and suitability for the intended application.

Schaeffler spare parts are developed so that they meet the requirements of the relevant application in terms of

- function,
- durability,
- service life,
- precision, and
- assembly.

All spare parts are developed and verified according to a development plan based on original equipment. These include technical calculations and simulations as well as functional and endurance tests on test benches and in the vehicle. The results are compared with the technical requirements and the respective reference component.

A Schaeffler VLS spare part can therefore look intentionally different from the previously installed component. The critical factor is that it has been developed in accordance with the latest technological standards, engineered for the intended application, and comprehensively tested to ensure performance and reliability.

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