



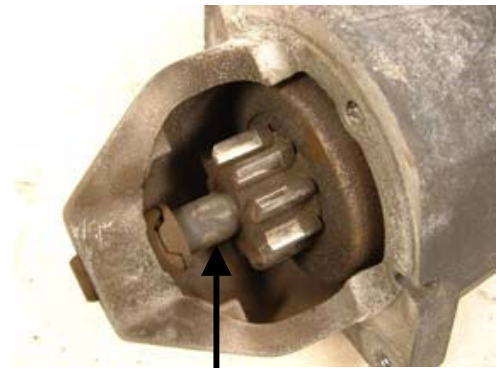
“Pasting-up” of starters

Damage

If a “pasting-up” of starters occurs, this may be noticed due to increased noise development and damaged starter pinions. In extreme cases, the motor ring gear may also be badly damaged.

Causes

The “pasting-up” occurs due the combination of contaminants (clutch dust/abrasion, swirled-up road dust) in the clutch housing and the lubricating grease on the armature shaft, the pinion shaft, the quick-acting screw thread and in the one-way roller clutch. This combination gives rise to a paste which is no longer capable of lubricating.



Deposits due to “pasting-up”

Effects

Due to the formation of this non-lubricating paste, the function of the starter, in particular the function of the overrunning clutch and of the quick-acting thread, is restricted to such an extent that the starter pinion disengages too slowly from the motor ring gear. As a result, the above-mentioned faults occur. As a rule, these can be eliminated only by replacing the starter.

Note:

Use only greases which are suitable for this area of application or which are supplied by the manufacturer. Ensure that all cover plates and plugs of the clutch housing are present and properly fitted. If the starter is replaced, the clutch housing should be cleaned in order to avoid premature “pasting-up”.