



Starter overrun

Damage

Overrun starters can be recognized via tarnishing on the one-way clutch/pinion, traces of scuffing on the armature shaft, an ejected commutator/armature winding and/or burning of the coil of the solenoid switch.

Causes

The causes for starters overrunning may be due to technical issues or may be caused by incorrect operation. Due to a jamming ignition/starter switch, short-circuits in the wiring or too long an operation of the starter, the starter remains switched on after the engine has started. Due to the enormous centrifugal forces, the winding and/or the commutator are destroyed. The discolouration of the coil insulation of the starter solenoid points to permanent current supply.

Effects

Destruction of the commutator and/or the winding, as well as overheating of the coil, leads to total failure of the starter.

