



Alternator bearing damage

Damage

The symptoms of bearing damage on alternators are heavy noise, radial or axial play in the rotor, or a blocked rotor.

Causes

Heavy vibrations or the entry of water should be considered as causes of bearing damage on alternators. Excessive drive-belt tension can also lead to damage or premature wear of the bearing, however. Through the flat-ribbed belts, enormous axial forces can be transmitted to the pulley and therefore to the bearing.

Effects

A damaged bearing can result in heavy noise and considerable play in the rotor. This can even be so great that damage to the alternator housing arises through the pulley.



Damaged alternator housing due to worn bearing