The commutator consists of copper sections which are insulated from each other and from the armature shaft. To prevent the carbon brushes from coming into contact with the insulation between sections after prolonged use, the insulation is trimmed back below the commutator surface.

The carbon brushes are held by spring pressure against the commutator from which they collect the current induced in the armature coils. The brushes are laterally secured by box channels in which they can move up and down.

The armature is supported by ball bearings which are held in the end frames that cover both ends of the generator. A band around one end of the generator housing covers openings through which the commutator and brushes can be inspected.

Bearings are only lubricated in conjunction with a general overhaul. Never use chassis grease.

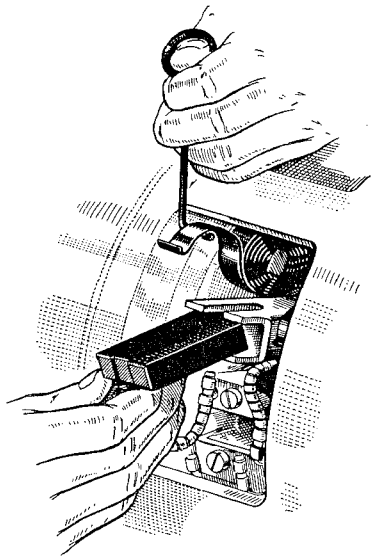

Fig. 4

Maintenance

The ball bearings of the generator are lubricated with heat resistant grease and require no attention under normal conditions.

The brushes should be inspected every 6000 miles (10,000 km). Worn brushes should be replaced to prevent commutator damage.

Never oil brushes.