

## Changing the gear selector on the smallframe Vespa

If the gears on the smallframe start to jump when under strain then the gear selector, both of the bearings and the spring should be replaced. These measures should be part of any engine overhaul even if the symptoms aren't there. Different gear selectors, some of which are reinforced, are available, as well as reinforced springs.

**SIP-TIP** when re-fitting the gear cogs pay close attention to the clearance, max. 0.4mm. Offset via gearbox spacer washer, available in several measurements, e.g. 1 dimension part no 16541800.



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To disassemble the gear selector, knock the drive shaft into a cloth, pull the gear selector outwards and collect the shifting ball bearings on the left and right.



To fit the shifting ball bearings use tool part no 6379100. Do not forget new ball bearings (part no 637900) and reinforced springs (part no 1501150).



Fit the spring and both ball bearings to the drive shaft and fix them with both halves of the tool. Fit the new gear selector (e.g. part no 13490260), finished.

**SIP-TIP** different types of gear selectors are available, 3- and 4-speed, square and round. For tuned engines, hardened gear selectors from DRT are also available. This is explained in detail in our webshop, see <http://tinyurl.com/schaltklaue>. Also see the PDF document on 'gear selector info' which is available as a download on the detail page for every gear selector.

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