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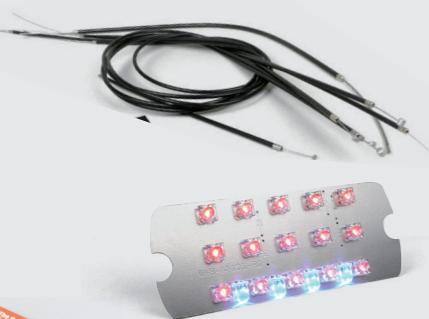
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Complete Spanner's Manual Lambretta, 2nd Edition, by Sticky



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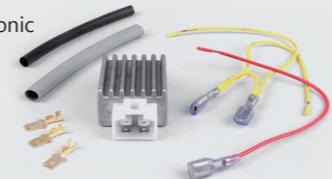
bgm Pro stators, ultra reliable ignition systems for Lambretta and Vespa

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CRANKSHAFT  
- L A M B R E T T A -

## BGM CRANKSHAFT

### - LAMBRETTA -

Congratulations for purchasing the bgm Lambretta crankshaft. Here you will find some information about the product as well as some fitting advice that you should take care of.

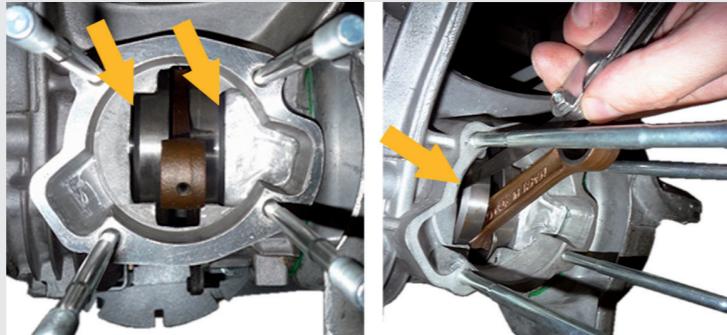


## FITTING

Basic information about the fitting of any Lambretta crankshaft can be found at the Stickys Spanners Manual or SCK catalogue\*. Always change a crankshaft using new quality bearings and Viton oil seals.

Included with the delivery of the crankshaft are two small end bearings (20mm and 22mm) two spacer shims (0.5mm and 1mm) for the drive bearing, three mag housing gaskets (0.5mm, 1.0mm and 1.5mm) and two cylinder packers for large and small block engine casings.

General advice for fitting is to use the right tools for the job instead of hitting the crankshaft with the hammer into the casings. Once the crankshaft is fitted with a drive side pulling sleeve, you should measure the play of the crank webs in the casings. The tolerance should be at least 0.5 mm on each side. Therefore shims for the drive side as well as thicker gaskets for the flywheel side are included. The job is easy, fit the crankshaft and use a feeler gauge to see if it is right. If it is below 0.5 mm, simply use the right washer/gasket to achieve the perfect side play.

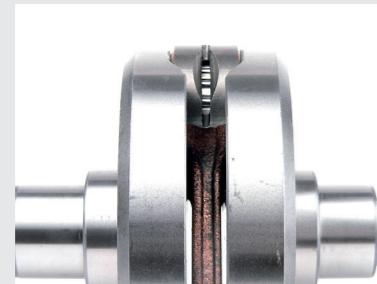


## APPLICATION

The bgm crankshafts can be used on every Lambretta Li Series type engine. The most popular crankshaft is the 60 mm stroke and one with 110 mm Yamaha con rod. So we will refer to this one here. The basic principle is the same with all crankshafts. If you need further technical support, use: info@bgm-tuning.com.

## FEATURES

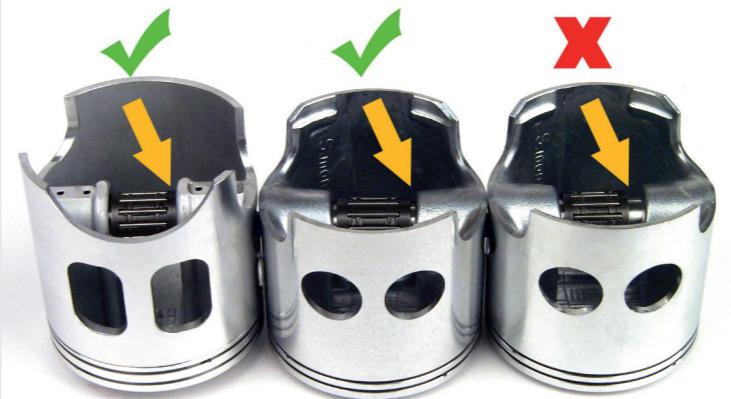
A lot of effort has gone into the development of the crankshaft. The most important thing is to get the fitment and fitting procedure of the crank pin right. Once done, the risk of twisting the crankshaft is reduced. The next important thing was to improve the balancing of the crankshaft. The combination of Tungsten, copper weights and the hidden pockets is a well elaborated design that works on every engine and gives smooth running. Racing bearings, oil slots for perfect lubrication are a matter of course for the European made bgm Lambretta crankshaft.



If you need to fit one of the washers supplied for the drive side bearing make sure that there are no burr marks. If so simply file it away. The MB Developments drive side plate gives additional clearance. Compared to an Innocenti item you gain 0.7 mm.

A crankshaft supplied with a 110 mm con rod, will have a 3 mm cylinder base packing plate to equal the longer con rod. The transfer cut outs on these are for standard casings and barrels. You may need to match it to your existing cylinders setup.

Next you need to choose the right small end bearing for your piston. There are two different sizes used on a Lambretta, 20mm and 22mm. The wider one is referred to as the Japanese one. The Japanese one needs to be used on Wiseco, Imola, Mugello, Monza and any genuine style pistons which used piston shims. While the standard width one (20mm) is used on all other piston makes. Including the MB Developments Race-Tour pistons. But always check before fitting.



Racetour + 20mm    Monza + 22mm    Monza + 20mm

The pictures show wrong and right combinations of small end bearings. One to watch is the right clearance of the bore holes for the gudgeon pin. The pin needs to float in a piston. There are special tools available for enlarging the hole. This is no problem at MB Development's Race-Tour, Wiseco and some Jap pistons. The Asso/Werke pistons are known for being very tight. Before you are going to fit the top end, oil the big end bearing, shims and small end bearing with two stroke oil. Once fitted make sure the crank spins free.

\*SCK catalogue can be found as a download link thru [www.scooter-center.com](http://www.scooter-center.com).



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-bgm PRO SC/F16, 255mm-  
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## The new bgm PRO SC Series

