

**bgme**<sup>®</sup>

**PRO**  **SUPERCHARGED**

S U S P E N S I O N   U P G R A D E  
- L A M B R E T T A -

## BGM SUSPENSION UPGRADE – LAMBRETТА

### BGM FULLY ADJUSTABLE REAR SHOCK ABSORBER

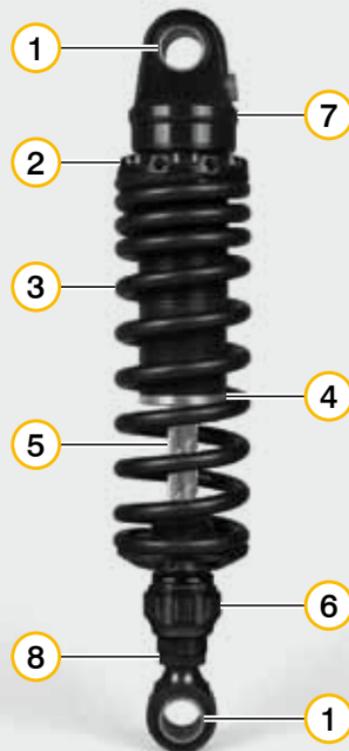
Congratulations for purchasing a bgm high quality product. All bgm products are quality sealed with 'German Engineering'. Please read these instructions before fitting carefully.

The BLACK EDITION is the latest development of the successful rear shocker range used from daily commuting, to hard Rally going and for sure on the race tracks. It is fully adjustable and the most versatile rear shocker ever made for a Lambretta. 21st century technology with classic looks.

Before we give you some useful advice how to setup the spring preload, the rebound and compression dampening as well as the length adjustment, we would like to introduce you to the features of your BLACK EDITION damper:

- 1) rubber mounted bushings
- 2) spring preload adjustment
- 3) progressive spring for ultimate performance
- 4) screwed in plate with UK made oil seal preventing leaking
- 5) massive rod with 14 mm diameter
- 6) knurl for adjustment of rebound and compression dampening
- 7) billet machined CNC body
- 8) length adjustment

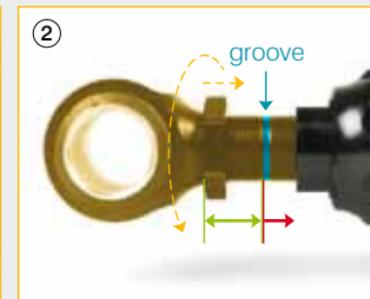
**READ ADJUSTMENT ADVICE BEFORE USE!**



## ATTENTION!



1) groove indicates end of safe adjustment



2) thread under groove indicates adjustment area (10 mm)



3) groove has to be covered completely in shocker mainbody



4) with groove covered counter nut can be tighten properly

## SET IT UP

### • Spring preload adjustment

This feature is used to achieve the correct spring rate for your riding style. The shocker comes equipped with a progressive spring that is the result of the network of bgm test riders worldwide and Mark Broadhurst's development work. It combines the former black and white spring used.

The C spanner is included to the delivery and the more you screw the spring preload adjustment plate the more preload is on the spring. Setup is easy and the black rubber bump stop can be used as an indicator for getting it right. A good starting point is achieved when the rubber bump stop is moving approximately 15 – 20 mm on a standstill with the bike off the centre stand and someone giving a helping hand on keeping the bike central. This setting you can use as a basic setup to elaborate the settings further.

### • Rebound and compression adjustment

There are 12 stages for adjusting. A valve regulates the speed of the flow and hence the response. The way in which the setting is set can easily be spotted by the markings on the adjusting knurl. To get used to the different settings use a well known road to you and your Lambretta and make test rides with the hardest, middle and softest setting. Adjustment can be very easily made on the scooter and with some test rides you'll find the setting suiting your individual riding preferences.

### LENGTH ADJUSTMENT

Before you are going to fit it have a proper look at the way the system works. There is a clearly visible groove in the mounting eye. This is the mark, where adjustment has to end. NEVER ever adjust it above this level.

The length adjustment of the Lambretta rear shocker has been introduced to avoid frame to inlet manifold problems, which occurred on some setups caused by varying tolerances. The length adjustment gives you a range of 10 mm at the rear shock (305-295 mm length). This

adjustment system gives a nice gap between your frame and manifold.

The adjustment can easily be done by unscrewing the top mounting lug. This has to be done with the shocker not attached to the bike and great care must be taken NOT to unscrew the lug further out than clearly indicated by the groove in it. Once you are satisfied with the length setting the half locknut nut has to be secured. We advise to use some middle strength Loctite and tighten the nut firmly.

### TECH TIP

Always ensure that you use rear shocker nuts with the correct thread pitch (M16x1.5) otherwise you will destroy the thread on the mounting shafts. Self locking nuts are advisable. Set the nut to a torque of 50-55 Nm / 40-40.5 LBS-FT.

### BGM FRONT DAMPERS

The bgm front dampers are a big step forward for fast cornering and a safe and stable ride. They are adjustable to your individual riding style and are highly recommended from street to race use.

The specific designed Lambretta dampers are made from high grade alloy and are hard anodized for a long lasting finish. All dampers come with a production number and are continuous evolving to offer you the best product included with latest technology.

The dampers are a straight fit to all disc brake type forks and links. Additionally weld on damper brackets are available and make it easy to convert every Lambretta Series 1-3 fork to fit front dampers. SCK and MBD offer remade high tensile drum or disc links with damper mounts. On intensive testing we found that the original and Stainless Steel studs are perfectly suited for the job.

The latest moulded version of the bushing gives enough material on the metal insert to convert

## MORE BGM LAMBRETTA STUFF!

### SHOCK ABSORBERS

1. bgm Pro „F16“, front, Set, LI, LIS, SX, TV (2-3), DL, GP
2. bgm Pro „F16“, front, Set, chrome, LI, LIS, SX, TV (2-3), DL, GP

### CARBURATORS

3. bgm Pro PWK 24 mm Powerjet, CS = 34 mm  
bgm Pro PWK 28 mm Powerjet, CS = 34 mm  
bgm Pro PWK 30 mm Powerjet, CS = 34 mm

### MAIN JET SETS

4. bgm Pro, Dellorto 6 mm (100-122 & 125-147)  
bgm Pro, Dellorto 5 mm (100-122 & 125-145)  
bgm Pro, Mikuni TM (180-225, 230-275, 280-325 & 330-375)  
bgm Pro, Keihin PWK (100-122, 125-148 & 150-172)

### IDLE JET SETS

- bgm Pro, Mikuni TM (15,0-37,5)
- bgm Pro, Keihin PWK (35-55)

### NEEDLE SETS

- bgm Pro, Dellorto PHBG, PHBH, PHBL & PHVA
- bgm Pro, Keihin PWK
- bgm Pro XL, bgm, Keihin, Stage6, PWK





**bgm**  
ORIGINAL SUPERCHARGED

5

### IGNITIONS

- 5. Ignition bgm Original, stator HP 120W electronic ignition  
Ignition bgm Original, stator 80W electronic ignition

### MORE

- 6. Cable choke conversion kit bgm Pro, PWK Mikuni TMX 30 & 32 (bgm, Stage 6, Keihin, Koso)
- 7. Fuel/air mixture screw bgm Pro, available for PWK, Mikuni, Dellorto PHBH and PHBL
- 8. Taillight LED 12V, reflector only, LI series 3, LI Special, SX, TV series 3
- 9. Cable set bgm Pro Teflon grey, Lambretta series 1-3
- 10. Cable set bgm Pro Teflon black, Lambretta series 1-3, fitting instructions included:

**bgm**  
PRO SUPERCHARGED



8

**bgm**  
PRO SUPERCHARGED



7



**bgm**  
PRO SUPERCHARGED



9

10

bgm main distributors:



Northern America



United Kingdom



Italy



[www.scooter-center.com](http://www.scooter-center.com)

Mainland Europe