

# OWNER'S MANUAL OHVALE GPO190

293S-019-205-005



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## INTRODUCTION

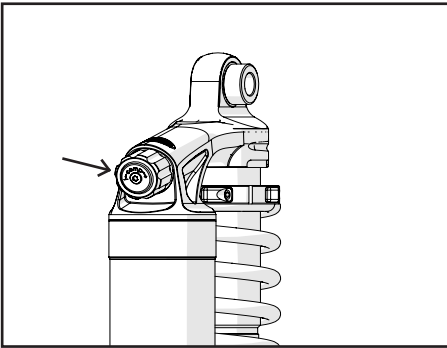
Multiple adjustment, improved control, refinement and awesome looks make K-Tech Razor shocks a leap beyond standard equipment.

The Razor range of shock absorbers are available in multiple lengths with up to 4 way adjustability allowing you to customise your motorcycle for looks and riding style.

- Increased comfort and control
- 4 way adjustability
- Nitrogen Filled (N<sup>2</sup>)
- Anodised black finish
- Optional spring rates

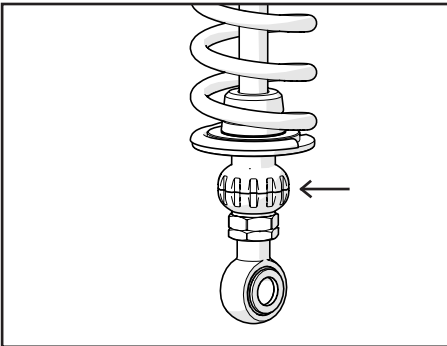
K-Tech Suspension Ltd products are manufactured to fit specific brands and models. Under no circumstances should any K-Tech Suspension Ltd products be fitted to an application other than that for which it has been designed, tested and manufactured.

## ADJUSTMENT



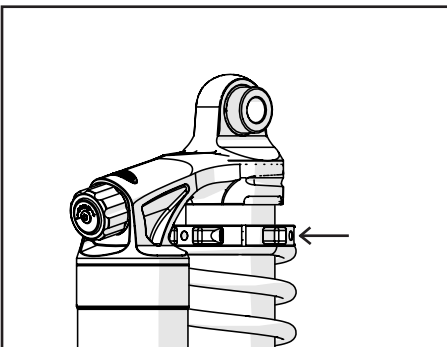
### Compression damping:-

Black Adjuster Knob:- 30 clicks adjustment range. All settings should be made from the fully closed (Clockwise Position).



### Rebound damping:-

Bottom Adjuster Wheel:- 32 clicks adjustment range. All settings should be made from the fully closed (Clockwise Position).



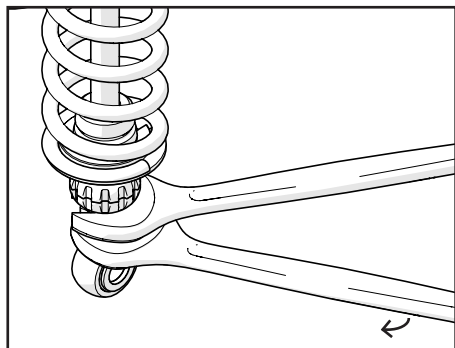
### Spring preload:-

Adjust preload with black collar at the top of the main spring. To adjust, loosen the allen key pinch bolt, then turn the collar to the required preload (using tool 213-235-305) (1 turn = 1.5mm).



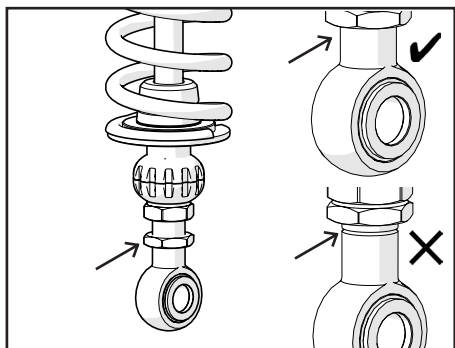
Once preload is set, secure preload collar by tightening the pinch bolt to 5Nm.

## ADJUSTMENT



### Shock length:-

To adjust the shock length loosen the silver lock nut at the bottom of the shock with a 22mm open ended spanner whilst holding the rod joiner (black 22mm hex) with another spanner.



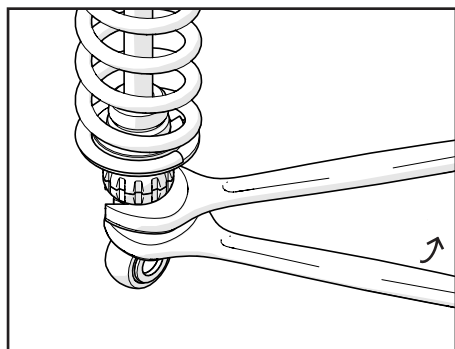
### Shock length:-

Turn the end eye assembly until you get the desired length.  
(1 turn = 1mm adjustment.)

**NB: Shock length must not be adjusted to shorter than 265mm**



Make sure you cannot see the groove on the thread.



### Shock length:-

When you have changed the shock length wind the silver lock nut up to the black rod joiner and torque to 30Nm.

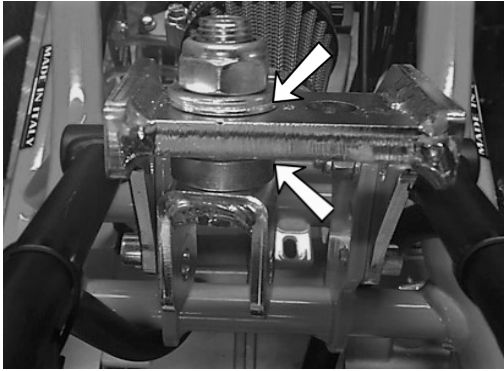
## **FITTING THE SHOCK**

This procedure should only be carried out by a qualified motorcycle technician. K-Tech Suspension Ltd will not be liable for any damages caused to or by the product, nor be liable for any injuries sustained if the product is fitted by an un-authorized dealer of K-Tech Suspension Ltd. K-Tech Suspension Ltd will not be liable for any damages caused, if the correct tools are not used throughout the entire process of fitting and adjusting the Shock. Please refer to the manufacturer's workshop manual before attempting this procedure. This procedure will require two people. You will need to remove all relevant bodywork and any other parts that may restrict you from carrying out this task safely.

Place and secure the motorcycle on an appropriate stand so that the wheel is approximately 5cm off the ground. Loosen the top and bottom mounting bolts using the correct spanners. With one person holding the rear wheel in a stationary position the second person can remove the top bolt, it may be necessary to slightly move the rear wheel up and down whilst removing the top bolt. Keeping the rear wheel in a stationary position the second person can now remove the bottom bolt, it will be necessary to hold the shock whilst doing this. Remove the shock from the bike keeping the rear wheel stationary while doing so.

You are now ready to fit the K-Tech Razor shock.

## RAZOR SHOCK ABSORBER



To ensure there is adequate clearance for the shock, the top shock mount must be adjusted.

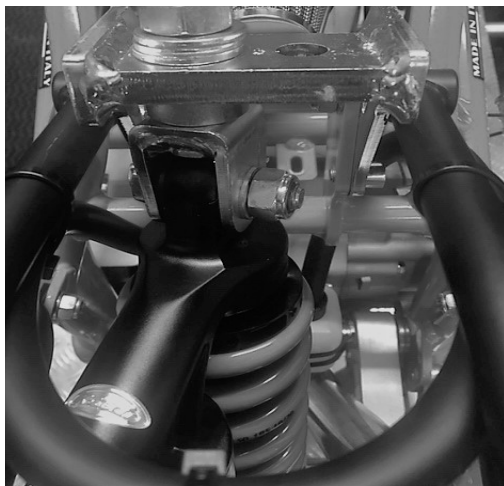
Loosen top clevis mounting nut.

NB: Minimum shock length is 265mm. If a lower ride height is required, relocate washer/s from clevis side of frame to nut side of frame (see arrows).



Rotate clevis mount 17 degrees clockwise.


Holding clevis in adjusted position, tighten the clevis mounting nut to Manufacturer's specification.



Place the shock into the bike, fitting the bottom mounting bolt first. It may be necessary for the second person to slowly move the rear wheel up or down for you to insert the bolt. Fit the top mounting bolt and torque both top and bottom bolts to the manufacturer's specification.

**Take a slow test ride to make sure everything is correct**

**SETTINGS**

<b>RECOMMENDED:</b>	
Shock length	265 (-2/+8)mm  (265mm Min Length)
Shock stroke	40mm
Spring rate	185N/mm
Spring preload	4mm
Comp damping (Black)	10 Clicks Out
Reb damping (Natural)	16 Clicks Out
Gas pressure	10 bar

**SERVICE**

K-Tech Suspension Ltd recommend that this product is serviced every 10,000 miles of use. It is very important that this product is serviced by an authorised dealer, as there are special tools required to guarantee correct performance of this product. K-Tech Suspension Ltd cannot be held responsible for any damage caused to/by the product if a service is overdue or was not conducted by an authorised dealer.

[www.ktechsuspension.com/service-centres-and-partners](http://www.ktechsuspension.com/service-centres-and-partners)

**NOTES**



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Contact your local K-Tech dealer for more details at  
[www.ktechsuspension.com/service-centres-and-partners](http://www.ktechsuspension.com/service-centres-and-partners)