

# M3 E30 GrA

## Instruction Manual



[IM]-PKM-M3  
09/05/2022

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## Chapt I :      **Specification**

Designed for rally cars, this damper version is specially developed for the BMW M3 E30 GrA. With a  $\varnothing 46$ mm piston, this one-way damper comes with bump stop.

To setup your rear damper, a tool OT-CLE-025-C help you to turn the bump adjuster.

## Chapt II :      **Assembly**

### **1. Front damper**





The front damper assembly is composed of the damper and a strut. Damper assembly can be purchased without the strut.



The damper come to the strut trough a wiper seal. To protect the seal during assembly it must be grease. Guide ring into the strut must be grease too.

Damper must be press in the strut through the hole. The hole can be threaded, in that case, the end of the rod must be screw into it. Use a 10 flat wrench to tight up the rod.





Then, screw the nut and the locknut to the rod. If the rod turns around the strut, use a 10 flat wrench on the rod to tighten the nut. Unscrew the 3mm hexagonal screw inside the rod and let it exceed from the rod.

Finally, to screw the adjuster well, put some 243 Loctite on the rod and screw the module until the contact. At this step, be sure that the adjuster can rotate in both directions. If not, go back to the previous step with the 3mm hexagonal screw.

To set it in, screw the scroll wheel to the end. Click position 0 : Full clockwise at maximum force.



On the other side, the upper fixation come through the top mount car. Tight-up the 27mm nut with an impact wrench.

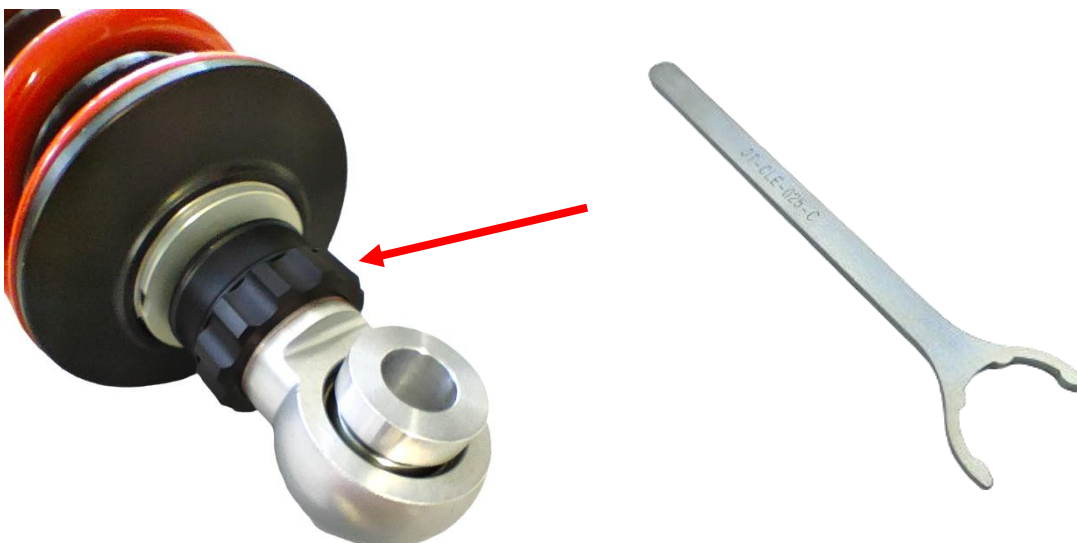
## 2. Rear damper



The rear damper do not use strut. Damper fit in the car by ball joint bearing.

As the front damper, to set the 0, screw the rebound adjuster at the maximum.  
Click position 0 : Full clockwise at maximum force.

Because the bump adjuster isn't that much accessible in the car, a tool OT-CLE-025-C is available to setup the car easily.



## Chapt III :    **Warnings**

- Dampers are important part of the car and can affect stability
- PKM Consulting can not be held responsible for damage on the vehicle or injury if instructions and maintenance are not respected.
- Test the car at low speed after installing the product.
- For any anormal comportment of the car or the product, stop the vehicle and fix the problem.
- Clean your damper after use with adapted products.
- You must do not touch the inflate screw at the opposite side of the adjustment wheel, it could depressurize your damper.



## Chapt IV :    **Services**

Services must be done every 900km or every year.

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## Chapt V :    **Versioning**

REV	NAME	DATE	CHANGES
A	RICORD	29/04/2022	Creation





Chapt VI :    Notes

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