



Wilbers  
Performance Suspension

# UPGRADE YOUR HARLEY



# NIVOMAT



## Wilbers Nivomat powered by ZF

## The Wilbers Nivomat-system

for Harley Davidson **Touring models**

page 6

Wilbers Nivomat Twin Shock



for Harley Davidson **Softail models**

page 8

Wilbers Nivomat Softail



for Harley Davidson **Sportster 1250 S**

page 10

Wilbers Nivomat Sportster



Suspension geometry and tuning is the most important thing for riding a motorcycle safely and comfortably.

The ride heights at the front as well as the rear have a significant effect on the handling. Depending on the set-up and rider weight, these values fluctuate and are usually not at the same height. A suspension spring that is too soft or too hard also affects the ride height and causes an unwanted change in the geometry. The patented Wilbers Nivomat system automatically, without manual adjustments, ensures a sufficient spring rate and damping as well as an ideal suspension travel - via the hydropneumatic function completely independently and always ideal for the payload.

A 10-year warranty is a promise that we are happy to give and that we make worldwide with the help of our importers and authorized dealers. Through the cooperation with ZF and the resulting experience from the OEM sector with the long-term warranty, we now also grant a 10-year warranty for our Wilbers Nivomat powered by ZF suspension systems since July 1, 2023.

The Nivomat system stands for quality, durability and best function - we like to underline this. If, contrary to expectations, there should still be a problem, you can call on us worldwide!

You can find the listed importers and support dealers on our homepage. There is always one near you, we promise!



Scan the QR code and go to the complete **model and price overview** Harley Davidson!



## Advantages of the Nivomat-systems

for Harley Davidson **Touring models**

for Harley Davidson **Softail models**

for Harley Davidson **Sportster 1250 S**

Full availability of the total spring travel in loaded condition.

The additional gas spring adjusts the spring rate to the minimum necessary depending on the load condition. The result: a significant gain in comfort even in solo operation.

Consistent seat height, no matter with which load.

The Wilbers Nivomat powered by ZF always returns to the defined and thus ensures optimum ground and lean angles.

Consistent geometry, no matter which load.

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”

It's just **awesome!** There are no more bad roads!“

Customer from 2021

# Nivomat Twin Shock

## for Harley Davidson **Touring models**



The Wilbers Nivomat Twin Shock Kit is delivered in combination with a Wilbers Ecoline shock in the Nightline version as well as the necessary ZERO friction fork springs and ZERO friction fork oil. Depending on the vehicle, there are different kit versions in the number of fork springs and fork oil required. The kit was developed specifically for Harley Davidson's touring models. Because here the Nivomat can exploit its full potential: some of these models are equipped as standard with just 53 mm of rear wheel travel. The Wilbers Nivomat Twin Shock System, on the other hand, has 73 mm of suspension travel and thus, in conjunction with the automatic level control, always ensures the best possible comfort and maximum suspension travel.

**FRONT\*:**  
fork springs and fork oil  
\*depending on the vehicle model



necessary

**REAR:**  
Nivomat  
and Ecoline shock



necessary



Depending on the vehicle model, the Twin Shock Kit is delivered with 1 or 2 fork springs or ZERO friction oil.

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# NIVOMAT Softail

## for Harley Davidson **Softail models**

With the 2017 model year, Harley Davidson has fundamentally revised its Softtail model series. The concept of the shock absorber loaded in tension has been completely rethought and the frame and swingarm have been redesigned. So there is now room for a conventional, compression-loaded shock absorber.

This was the starting point for us to develop a Nivomat suspension for this model series as well, in close cooperation with ZF. Here, too, the goal was clear: more ride comfort without sacrificing stability and an optimum level position that the system constantly regulates while driving. Here, too, we have achieved our goal. Convince yourself during a test drive of this unique suspension made in Germany!



FRONT:  
fork springs and fork oil



necessary

REAR:  
Nivomat



necessary



”

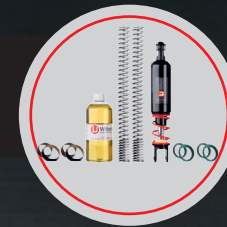
A truly striking difference  
and an **incredible improvement**  
of the entire motorcycle!”

Patric Birnbreier, Garage Ink Issue 09, 10/2022

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# NIVOMAT Sportster 1250 S



## for Harley Davidson **Sportster 1250 S**



After the presentation and initial test reports of the Harley Davidson Sportster 1250 S, it was clear to us that, following the great success of the Nivomat system for the touring models, we now urgently needed to develop a Nivomat system for the Sportster 1250 S as well. Here, too, the conventional shock absorber installed as standard quickly reaches its limits. The sensational design and the belt drive of the Sportster 1250 S unfortunately do not allow much suspension travel due to the construction, which inevitably leads to a tight tuning with normal shocks. The Wilbers Nivomat powered by ZF suspension provides the solution here as well: The spring travel increases to a whopping 80 mm and the spring rate could,

significantly reduced due to the additional gas spring, which becomes harder depending on the load condition. It is important to mention that the seat height does not change significantly and thus the stocky appearance of the Sportster 1250 S is retained. Of course, we also took a closer look at the fork of the Sportster 1250 S during the development of the Nivomat suspension. In this way we have succeeded in reducing friction and thus the response significantly improved by high-quality bushings and SKF fork seals. The slightly firmer ZERO friction fork springs in combination with the matching ZERO friction fork oil form the perfect symbiosis.

For the optimum riding experience, the Nivomat shock is therefore supplied together with the fork components as a suspension kit. The Wilbers Nivomat powered by ZF ensures maximum comfort and traction, which is very good for the handling. Initial driving tests gave rise to thoughts of the later LAP RECORD project, which was successfully implemented at Oschersleben.

**FRONT:**  
fork springs and fork oil



notwendig

**REAR:**  
Nivomat



notwendig

The kit consists of:

- Wilbers Nivomat Mono shock absorber
- 1 set of ZERO friction fork springs
- 1 liter ZERO friction fork oil
- 2 sets of ZERO friction sliding guide bushings
- 2 sets of SKF oil seals & dust caps



Scan the QR code and go directly to the chassis kit in our online store!



# Want a test drive?

Scan the QR code and arrange a test drive  
at one of our Nivomat test centers or with us!



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