# MEYLE-HD tie rod end: Tips & tricks for proper assembly Hamburg, 4 May 2020. If and how precisely a vehicle steers, depends on numerous components. One crucial vehicle part for precise steering is the tie rod end. It ensures that the power is transferred from the tie rods to the steering knuckle during steering and that the wheels consequently follow the steering angle of the driver. This keeps the vehicle on track. Tie rod ends are durable components with a range of more than 100,000 kilometers. They are also typical wear parts that have to be replaced over time. A characteristic defect at the tie rod end is a damaged rubber sleeve. The actual defect is often a consequential damage to the defective rubber sleeve: sand and water can enter through the defect. As a result, the ball pin begins to rust. Sand and dust can also get between the ball pin and the plastic seat and grinds the plastic seat to a rough finish – leading to play between ball pin and plastic seat. All this damages the tie rod end and affects the directional stability of the vehicle – and thus represents a real safety risk. The durability of a tie rod end can be significantly extended with just a few work steps. In a new video on the [MEYLE TV channel](https://www.youtube.com/watch?v=DZ9S8LGgwbo), Hamburg-based manufacturer MEYLE shows how this can be done on the VW T4.

# Step 1: Cleaning the steeling knuckle

# Before the installation of the new tie rod end can begin, the *contact surface of the steering knuckle* on which the rubber rests must be cleaned. This is necessary so that the rubber on the *steering knuckle* can rotate freely.

# Step 2: Lubricating the steering knuckle surface with silicone grease

# After cleaning the contact surface on the steering knuckle, it should be lubricated with silicone grease. This will help the rubber sleeve to slide over the surface of the steering knuckle for not be twisted when the steering wheel is turned.

# Step 3: Installing the tie rod end

# Now install the MEYLE-HD tie rod end and tighten the nut with 65 Nm. The nut must be tightened by hand until the ball pin is no longer to turn. The final torque is then tightened with a torque wrench. Do not use an impact wrench under any circumstances to tighten the tie rod end.

# Step 4: Carrying out the wheel alignment

# It is always necessary that a wheel alignment is carried out after the installation of the tie rod end in order to adapt the axle geometry of the vehicle to the manufacturer's specifications. Then the lock nut of the tie rod end is tightened with 55 Nm.

# All steps can be seen in a [short video](https://www.youtube.com/watch?v=DZ9S8LGgwbo) tutorial on the YouTube channel MEYLE-TV.

# Attention: These contents are intended for qualified personnel. They show a simplified and abbreviated form and do not represent a procedure. The vehicle manufacturer's specifications and instructions must be followed. These always take precedence over the general procedure presented here. MEYLE AG accepts no responsibility and rejects all liability if the activities shown in the video or this instruction are imitated.

Download our press releases and press pictures from [www.meyle.com](http://www.meyle.com/).

# Contact:

1. Klenk & Hoursch AG, Anja Wente, phone: +49 69 719168-174, email: meyle@klenkhoursch.de
2. MEYLE AG, Eva Schilling, phone: +49 40 67506 7425, email: press@meyle.com

**About the company
Better parts and solutions for the independent aftermarket – reliable as a friend.**

MEYLE AG engineers, manufactures and markets premium-quality replacement parts for the independent automotive aftermarket. With its three product lines – MEYLE-ORIGINAL, MEYLE-PD and MEYLE-HD – the company offers precise solutions and parts for competent mechanics, ambitious rally drivers to classic car enthusiasts and every driver around the world who needs to rely on their car. MEYLE offers its customers more than 24,000 reliable and durable spare parts, manufactured in its own factories and at selected production partners.

**Catering for virtually every popular vehicle application the wide range of product supplied by manufacturer MEYLE features the following products:**

* **MEYLE-ORIGINAL: True to OE. – This product line includes around 21,000 top-class parts.**
* **MEYLE-PD: Advanced design and technology. –** This product line features around 2,000 technically refined brake discs and pads distinguished by their enhanced braking performance and cutting-edge coating technology.
* **MEYLE-HD: Better than OE. – Devised by the company's in-house engineers, the MEYLE-HD line features more than 1,000 products to cater for thousands of different vehicle models.** Designed to provide **exceptional strength and long service life** MEYLE‑HD parts offer **enhanced performance over original-equipment designs**. Unrivalled in quality and durability technically-refined MEYLE-HD parts come with a four-year guarantee.

The company and its network of associated companies employ approx. 1,000 people at locations around the globe, of which 500 work at the company's headquarters in Hamburg, Germany. MEYLE works with partners, customers and workshops in 120 countries to ensure that drivers can rely on better parts and solutions – that’s how the company helps workshops to be DRIVER’S BEST FRIEND.