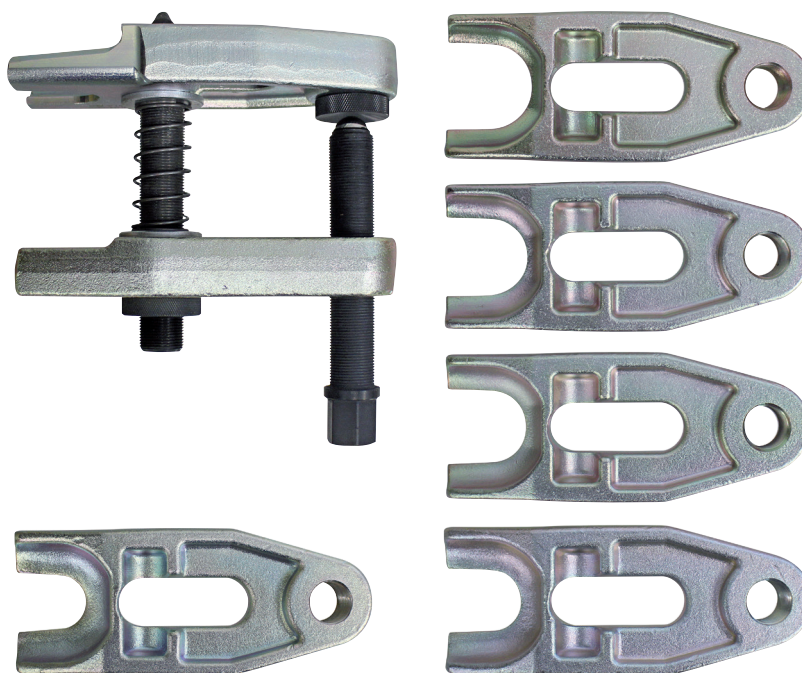


## KL-0165-.. Series

Ball Joint Breaker Series



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01/2024

KL-0165-..Serie (EN230810).indd

## 1. PRODUCT DESCRIPTION

### KL-0165-.. - Ball joint breaker series

#### Fits universally for cars, vans and commercial vehicles

For removing ball joint connections on axle and steering systems.

The large number of ball joints that are installed in vehicle axles and steering systems today require a large number of joint breakers to release the ball joint connections from the steering knuckle or steering lever due to the different sizes and diameters of the joints.

The conical pivot pins also require breakers with very high stability. It is also crucial that the correct release pressure point and angle can be set on the breaker when releasing a ball joint connection

With the **KL-0165-..** ball joint breaker series, we offer a tool that is highly stable, can be used universally and can be adjusted to the respective joint diameter and pivot pin height by changing the breaker fork.

Depending on the ball joint, fit the appropriate **fork** to the **basic tool**.

The **fork** and **basic tool** are available in two different sizes.

Fork

Fork

Fork can be easily replaced by turning it 90°.

Basic tool

Dimension "A"

Ball socket

Dimension "A" can be additionally reduced or enlarged by turning the **pressure lever**.

Pressure lever

Knurled nut

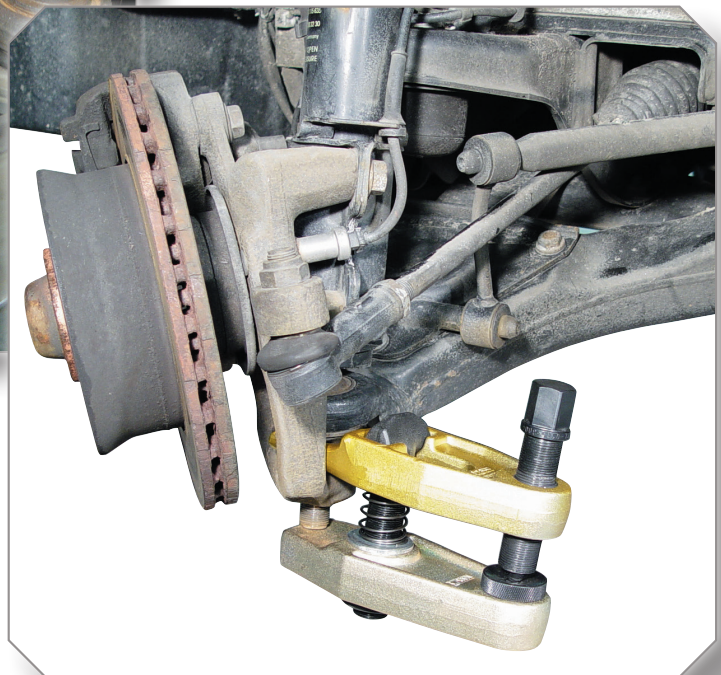
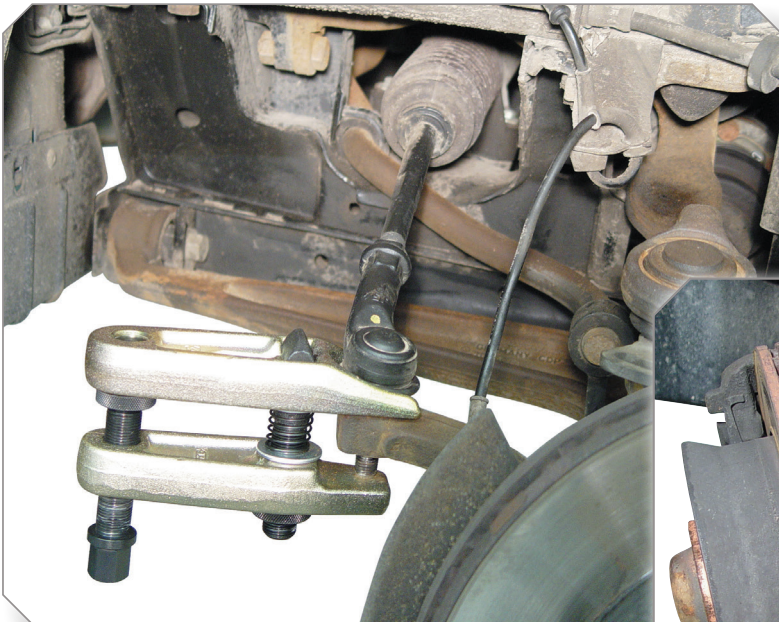
Adjusting screw

Thrust spindle

The maximum dimension "A" is reached when the **adjusting screw** is screwed in flush to the **knurled nut**!

Depending on the space available at the ball joint, the **pressure spindle** can be screwed into either the **pressure lever** or the **fork**.

## Typical applications



## ⚠ SAFETY INSTRUCTIONS AND REGULATIONS

- ✔ Read and understand this product information **before using** the special tool. This serves to familiarise you with the special tool for **safe use**!
- ✔ Use the special tool **as intended** and **always** carry out maintenance and repair work in compliance with the regulations on occupational safety and accident prevention as well as the vehicle manufacturer's instructions!
- ✔ **Before each use**, check the special tool **carefully** for damage, loose parts, or unauthorised modifications. **Never** use it, if you notice any such deficiencies!
- ✔ **Prior to each use**, check the moving parts and threads of the special tool for dirt. If necessary, clean and lubricate them **only** with molybdenum disulphide paste, such as **KL-0014-0030**!
- ✔ **Always** wear your personal protective equipment, e.g. safety goggles, protective gloves, safety shoes, during work if necessary!
- ✔ Interrupt your work **immediately** if you are unsure about using the special tool, and contact **GEDORE Automotive GmbH** if necessary!
- ✔ Dispose of the special tool and its packaging material in an environmentally compatible way in accordance with the legal requirements. If necessary, ask your local authorities or **GEDORE Automotive GmbH** about environmentally friendly disposal options!

## Size 1 and size 2 ball joint breakers for cars / vans

### KL-0165-1 - Ball joint breaker kit size 1 and size 2 (with 9 forks)

Peugeot 307 (2.0 HDI, 136PS, year of manufacture 2006) lower suspension joint; Mercedes A-Class (W168) track rod joint; Mercedes S-Class (W220) and (W140), ball / guide joint front axle; VW Golf (IV) track rod joint; VW LT and Mercedes Sprinter (906) track rod; Audi A4, VW Passat and Skoda Superb, guide joint; VWT4 tie rod joint; Mercedes M-Class (W163), E-Class (W211), W220 (S-Class), guide joint, top SLK (W170), C-Class (W202), S-Class (W220), track rod; VW Touareg; Porsche Cayenne track rod and upper guide joint, Mercedes E-Class (W210), Sprinter track rod joint, Ford Transit track rod joint, VW Golf (IV) lower ball joint; VW Touareg; Porsche Cayenne ball joint, VW T4 / T5 lower ball joint, Mercedes G-Model track rod joint and steering gear deflection lever, Ford Transit lower ball joint

### KL-0165-100 - Basic tool without fork

The **KL-0165-100** basic tool is suitable in conjunction with a size 1 or size 2 fork for loosening ball joint connections on axle and steering systems.

### KL-0165-10 - Ball joint breaker size 1

Especially suitable for Audi A6 Avant (4A), Golf (IV) track rod joint and Peugeot 307 (2.0 HDI, 136PS, year 2006) Lower ball joint etc.

### KL-0165-11 - Ball joint breaker size 1

Particularly suitable for Mercedes A-Class (W168) track rod joint etc.

### KL-0165-12 - Ball joint breaker size 1

Particularly suitable for Mercedes S-Class (W220), W140, suspension/guide joint front axle, VW Golf (IV) track rod joint etc.

### KL-0165-13 - Ball joint breaker size 1

Particularly suitable for VW LT, Mercedes Sprinter (906) track rod etc.

### KL-0165-14 - Ball joint breaker size 1

Particularly suitable for Audi A4; VW Passat; Skoda Superb, guide joint, VW T4 track rod joint etc.

### KL-0165-20 - Ball joint breaker size 2

Particularly suitable for Mercedes M-Class (W163), E-Class (W211), W220 (S-Class), guide joint, top SLK (W170), C-Class (W202), S-Class (W220), track rod etc.

### KL-0165-21 - Ball joint breaker size 2

Universal fit.

### KL-0165-22 - Ball joint breaker size 2

Particularly suitable for VW Touareg; Porsche Cayenne track rod and upper ball joint, Mercedes E-Class (W210), Sprinter track rod joint, Ford Transit track rod joint, VW Golf (IV) lower suspension joint etc.

### KL-0165-23 - Ball joint breaker size 2

Particularly suitable for VW Touareg; Porsche Cayenne ball joint, VW T4 / T5 lower ball joint, Mercedes G-model track rod joint and steering gear deflection lever, Ford Transit lower suspension joint etc.

## Size 3 ball joint breakers for commercial vehicles / vans

### KL-0165-3 KA - Ball joint breaker kit 3 (with 6 forks)

Particularly suitable for MAN, Mercedes, Scania, Volvo commercial vehicles and Landini and John Deere tractors, e.g. Mercedes Actros thrust struts; Mercedes Actros steering pitman arms; MB Sprinter (from model year '95), VW LT (from model year '98) ball joint; VW T4 guide joint, MB Citaro EvoBus O 530 stabiliser ball joint.

### KL-0165-300 - Basic tool without fork

The KL-0165-300 basic tool is suitable for loosening ball joint connections on axle and steering systems in conjunction with a fork (size 3).

### KL-0165-30 - Ball joint breaker size 3

Particularly suitable for MAN and Landini tractors etc.

### KL-0165-31 - Ball joint breaker size 3

Particularly suitable for MAN, Mercedes, etc. e.g. for Mercedes Actros thrust struts.

### KL-0165-32 - Ball joint breaker size 3

Especially suitable for Mercedes, MAN, Scania, Volvo, etc. for example Mercedes Actros pitman arms.

### KL-0165-33 - Ball joint breaker size 3

Especially suitable for Mercedes, MAN, Scania, Volvo and John Deere tractors etc.

### KL-0165-34 - Ball joint breaker size 3

Especially suitable for Mercedes bus, etc.

### KL-0165-35 - Ball joint breaker size 3

Especially suitable for suspension joint MB Sprinter (from model year '95), VW LT (from model year '98), guide joint VWT4, MB Citaro EvoBus O 530 stabiliser ball joint etc.

### KL-0165-36 - Ball joint breaker size 3

Especially suitable for the push rods at the deflection lever of the front axle at MAN bus A21.

## Accessories for the ball joint breaker series

### KL-0165-1013 - Adjusting screw M18x1.5 (140mm long)

### KL-0165-1014 - Thrust spindle M18x1.5 (95mm long)

Suitable for KL-0165-100 - basic tool size 1 and size 2.

By replacing the standard **adjusting screw** and **thrust spindle** with these extended versions, the maximum dimension "A" on the basic tool can be increased by approx. 30mm. This also allows ball joint connections on axle and steering systems that require a large span to be released.

### KL-0165-3013 - Adjusting screw M24x1.5 (178mm long)

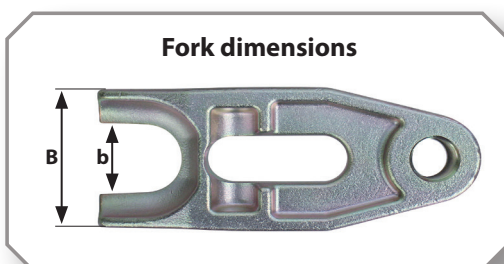
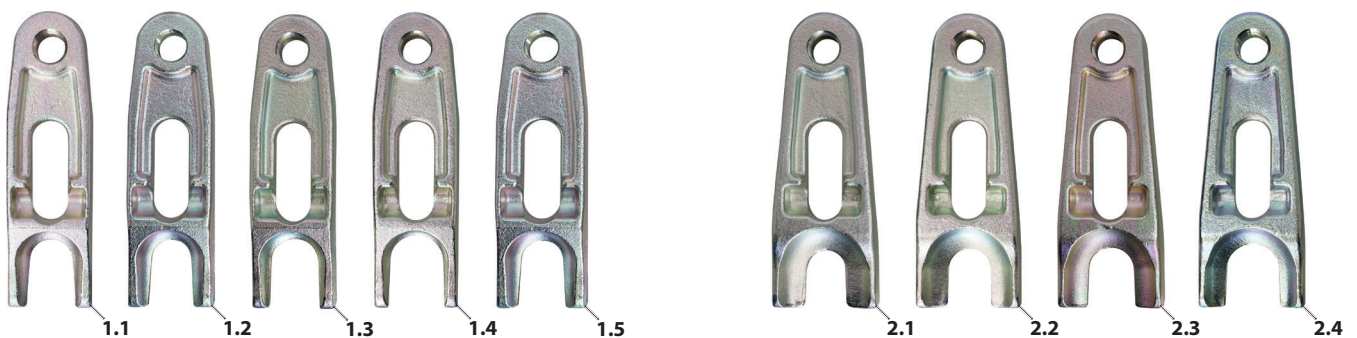
### KL-0165-3014 - Thrust spindle M24x1.5 (165mm long)

Suitable for KL-0165-300 - Basic tool size 3

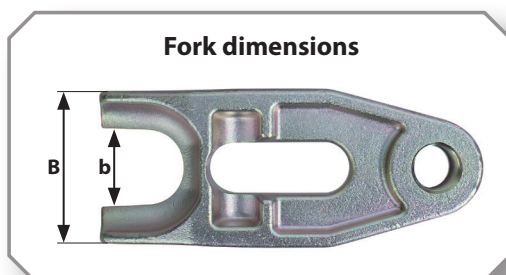
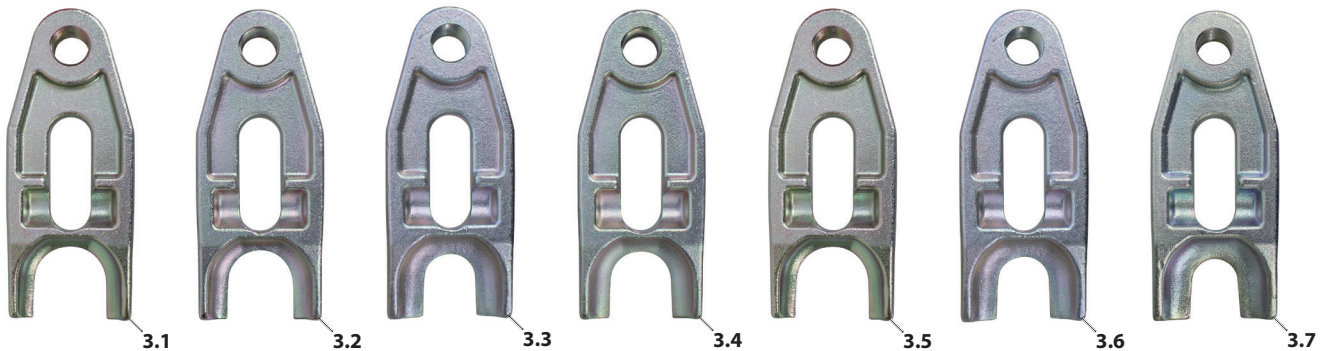
By replacing the standard **adjusting screw** and **thrust spindle** with these extended versions, the maximum dimension "A" on the basic tool can be increased by approx. 40mm. This also allows ball joint connections on axle and steering systems that require a large span to be released.

## 2. Scope of supply / Single part overview

Basic tool			Ball joint breaker for cars / vans											
			KL-0165-100	KL-0165-1	KL-0165-10	KL-0165-11	KL-0165-12	KL-0165-13	KL-0165-14	KL-0165-20	KL-165-21	KL-0165-22	KL-0165-23	
<b>Basic tool without fork:</b>		<b>Item</b>												
KL-0165-1002 - Pressure lever		1+2	●	●	●	●	●	●	●	●	●	●	●	
KL-0165-1003 - Adjusting screw M18x1.5 x 110mm			●	●	●	●	●	●	●	●	●	●	●	●
KL-0165-1004 - Thrust spindle M18x1.5 x 70mm			●	●	●	●	●	●	●	●	●	●	●	●
KL-0165-1005 - Ball socket			●	●	●	●	●	●	●	●	●	●	●	●
KL-0165-1006 - Knurled nut M18x1.5mm			●	●	●	●	●	●	●	●	●	●	●	●
KL-0165-1007 - Spring			●	●	●	●	●	●	●	●	●	●	●	●
KL-0165-1008 - Washer, Ø 18mm			●	●	●	●	●	●	●	●	●	●	●	●
<b>Forks size 1:</b>	<b>Dimensions</b>													
KL-0165-1001 Fork size 1	w=20 mm / W=50mm	1.1	●	●										
KL-0165-1101 Fork size 1	w=22 mm / W=50mm	1.2	●		●									
KL-0165-1201 Fork size 1	w=24 mm / W=50mm	1.3	●			●								
KL-0165-1301 Fork size 1	w=27 mm / W=50mm	1.4	●				●							
KL-0165-1401 Fork size 1	w=30 mm / W=50mm	1.5	●					●						
<b>Forks size 2:</b>	<b>Dimensions</b>													
KL-0165-2001 Fork size 2	w=22 mm / W=60mm	2.1	●						●					
KL-0165-2101 Fork size 2	w=24 mm / W=60mm	2.2	●							●				
KL-0165-2201 Fork size 2	w=26 mm / W=60mm	2.3	●								●			
KL-0165-2301 Fork size 2	w=30 mm / W=60mm	2.4	●									●		
<b>Storage system:</b>														
KL-0165-1090 - Plastic case	-		●											



Basic tool		Ball joint breaker for cars / vans								
		KL-0165-300	KL-0165-3 KA	KL-0165-30	KL-0165-31	KL-0165-32	KL-0165-33	KL-0165-34	KL-0165-35	KL-0165-36
<b>Basic tool without fork:</b>	<b>Item</b>									
KL-0165-3002 - Pressure lever	3	●	●	●	●	●	●	●	●	●
KL-0165-3013 - Adjusting screw M18x1.5 x 180mm		●	●	●	●	●	●	●	●	●
KL-0165-3014 - Thrust spindle M24x1.5 x 135mm		●	●	●	●	●	●	●	●	●
KL-0165-3005 - Ball socket		●	●	●	●	●	●	●	●	●
KL-0165-3006 - Knurled nut M24x1.5mm		●	●	●	●	●	●	●	●	●
KL-0165-3007 - Spring		●	●	●	●	●	●	●	●	●
KL-0165-3008 - Washer, Ø 24 mm		●	●	●	●	●	●	●	●	●
<b>Forks:</b>	<b>Dimensions</b>									
KL-0165-3001 Fork size 3	w=30 mm / W=80mm	3.1	●	●						
KL-0165-3101 Fork size 3	w=34 mm / W=80mm	3.2	●		●					
KL-0165-3201 Fork size 3	w=40 mm / W=80mm	3.3	●			●				
KL-0165-3301 Fork size 3	w=42 mm / W=80mm	3.4	●				●			
KL-0165-3401 Fork size 3	w=47 mm / W=80mm	3.5	●					●		
KL-0165-3501 Fork size 3	w=33 mm / W=80mm	3.6	●						●	
KL-0165-3601 Fork size 3	w=40 mm / W=80mm	3.7								●
<b>Storage system:</b>										
KL-0165-3090 A- Plastic case	-		●							



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