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Pressing Device with Hydraulic Cylinder, Mercedes Sprinter (Patented)



KL-0039-750

KL-0039-753

EN

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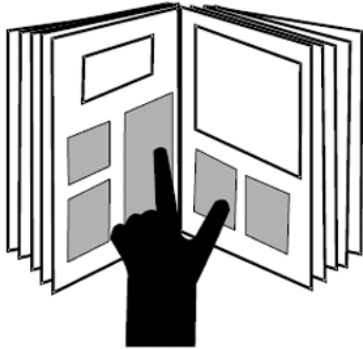
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1. Essential Safety Notices

⚠ Before using the pressing device, it is imperative that you read and understand the Instruction Manual. Misuse can lead to **SERIOUS INJURIES** and even **DEATH**.
 This Instruction Manual is part of the pressing device. Keep the Instruction Manual in a safe place for future reference and pass it on to subsequent users of the pressing device.
 All vehicle-specific data stated herein are supplied under reserve and without commitment.

1.1 Safety Notices and Warnings

For better differentiation, the warning notices in this Instruction Manual are classified as follows:

Warning sign	Sign reads	Signification
	WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injuries .
	CAUTION	Indicates a hazardous situation which, if not avoided, could result in moderate or minor injuries .
	ATTENTION	Indicates a situation which, if not avoided, may result in possible damage to the pressing device or its functioning, or to objects in its vicinity.

⚠ WARNING

When removing and installing suspension ball joints, there is a danger of the press frame breaking and falling to pieces. This will lead to parts becoming projectiles.

- Observe and do not exceed the maximum load capacity of the press frame.
- Use hydraulic pump with pressure gauge **KL-0040-2529**.
- Only use the genuine spare parts from GEDORE Automotive.
- Always keep all parts of your body away from the axial extension of the pressure spindle.

⚠ CAUTION

The tool can cause injuries if dropped.

- Always wear safety shoes/boots.

ATTENTION

Risk of damage to vehicle and tool.

- Lubricate pressure spindle with molybdenum disulphide paste **KL-0014-0030** (accessory).
- Any work on vehicles should only be performed by qualified specialist personnel observing and complying with the directions, provisions, and safety regulations specified by the vehicle manufacturer!
- Always refer to the vehicle manufacturer's data and instructions as only these apply to all work that is carried out on the vehicle.

1.2 Personal Protective Equipment

ALWAYS wear personal protective equipment when using the pressing device. The pressing device can cause mechanical hazards leading to injuries such as contusions, cuts or concussions.



EYE PROTECTION (see OSHA 29 CFR 1910.133 and ANSI Z87) designed to protect you from flying debris/parts must be worn when using the pressing device.

- Particles may be ejected at very high speed when working with the pressing device and could cause serious injuries to your eyes.



SAFETY GLOVES must be worn when using the pressing device.

- Working with the pressing device can cause skin abrasions and contusions.



SAFETY SHOES/BOOTS with slip resistant soles and steel-toe caps (see OSHA 29 CFR 1910.136 and ANSI 241) must be worn when using the pressing device.

- Falling parts can cause serious injuries to feet and toes.

1.3 Intended Use

⚠ The **KL-0039-750** pressing device is only designed for the removal and installation of suspension ball joints on Mercedes Sprinter (W904) models from 1995 onwards and VW LT (2D) models from 1996 onwards.

The **KL-0039-753** pressing device is only designed for the removal and installation of suspension ball joints on Mercedes Sprinter (W906) models from 2006 onwards and VW Crafter (2E/2F) models from 2006 onwards.

The pressing device may only be used for the purpose and in the manner as described in this Instruction Manual.

- Any other use can result in serious injuries or even death.

1.4 Safe and Proper Use

Take the following safety precautions to prevent injuries and damage that could be caused by improper handling or unsafe use of the pressing device.

⚠ Misuse can result in extremely severe injuries or even death.

- NEVER overload the pressing device.
- ALWAYS check the pressing device prior to EACH use in order to ensure that it is in good order and condition.
- ALWAYS replace all damaged and worn parts prior to using the pressing device.
- ONLY use the genuine spare parts and accessories from GEDORE Automotive on the pressing device.

1.5 Work Environment

For safety reasons, work with the pressing device should only be carried out in a safe and secure work environment.

- The workplace should always be clean and tidy.
- The workplace should be sufficiently large and must be secured.

1.6 Appropriate Users

This Instruction Manual is designed for technicians/mechanics in workshops.

DO NOT allow children to use the pressing device.

Purchasers/employers having purchased the pressing device MUST ensure that any person using the pressing device has read and understood this Instruction Manual prior to using the tool. This Instruction Manual MUST be made available to the users of the pressing device for reference at all times.

Fig. 1: Scope of Delivery: KL-0039-750

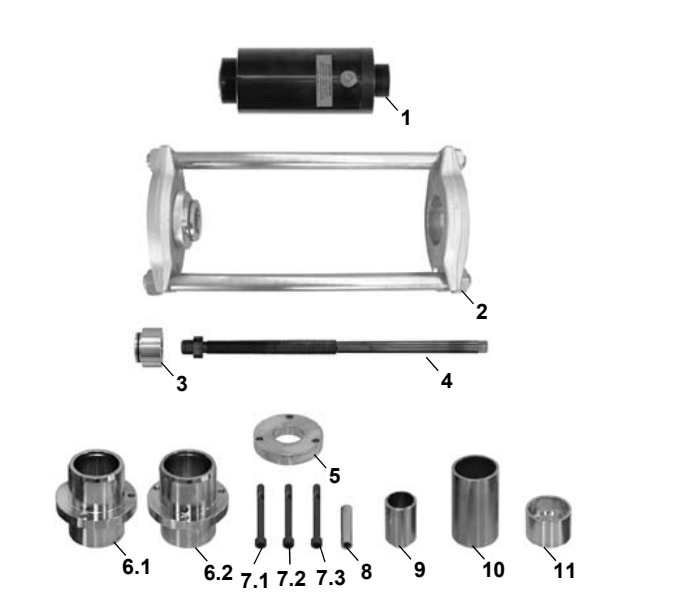


Fig. 2: Scope of Delivery: KL-0039-753

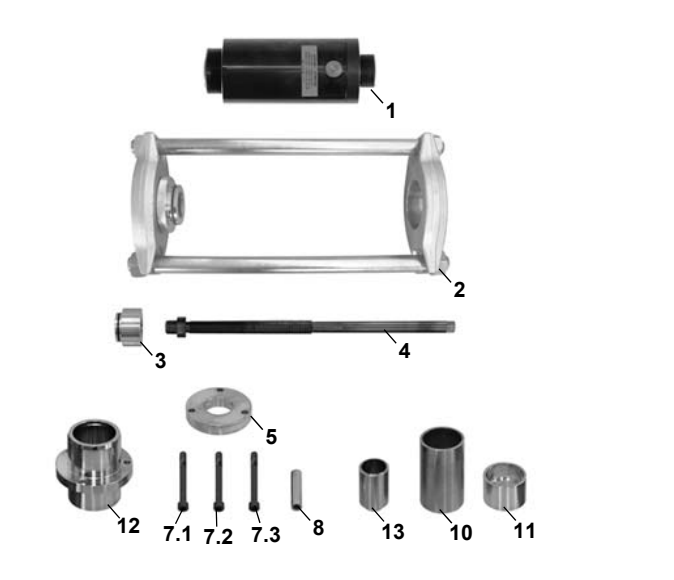


Fig. 3: Specification of Press Frame:

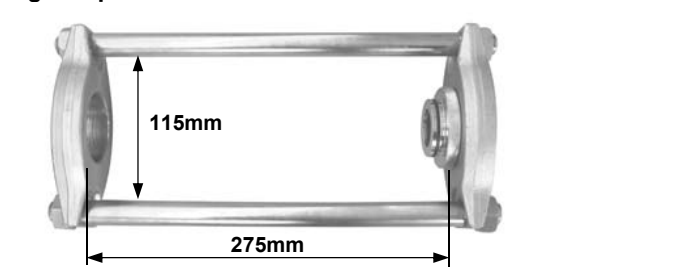
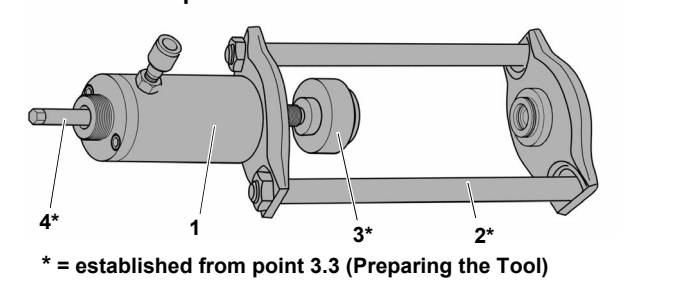


Fig. 4: Press Frame, Hydraulic Cylinder, Pressure Spindle and Adaptor.



2. Product Description

2.1 KL-0039-750 Pressing Device (W904) (Pat.)

Suitable for changing suspension ball joints on Mercedes Sprinter (904) models from 1995 onwards and on VW LT (2D) models from 1996 onwards.

Used in conjunction with an appropriate hydraulic pump, the KL-0039-750 pressing device enables the removal/installation of the suspension ball joint from/to the lower wishbone.

1	KL-0040-2500	Hydraulic Cylinder
2	KL-0039-1140	Press Frame
3	KL-0039-1002	Adaptor
4	KL-0039-1930	Pressure Spindle
5	KL-0039-1823-3	Clamping Washer
6.1	KL-0039-1823-1	Support Sleeve for Shoulder Ø 60mm
6.2	KL-0039-1823-2	Support Sleeve for Shoulder Ø 62mm
7.1 - 7.3	KL-0039-1823-4	Cheese Head Screw (3 units)
8	KL-0039-1823-5	Spacer Tube
9	KL-0039-1824	Pressure Sleeve (removal)
10	KL-0039-1762	Pressure Sleeve, Ø 62mm (installation)
11	KL-0039-1662	Support Sleeve, Ø 62mm (installation)

2.2 KL-0039-753 Pressing Device (W906) (Pat.)

Suitable for changing suspension ball joints on Mercedes Sprinter (W906) models from 2006 onwards and VW Crafter (2E / 2F) models from 2006 onwards.

Used in conjunction with an appropriate hydraulic pump, the KL-0039-753 pressing device enables the removal/installation of suspension ball joints from/to the lower wishbone.

1	KL-0040-2500	Hydraulic Cylinder
2	KL-0039-1140	Press Frame
3	KL-0039-1002	Adaptor
4	KL-0039-1930	Pressure Spindle
5	KL-0039-1823-3	Clamping Washer
7.1 - 7.3	KL-0039-1823-4	Cheese Head Screw (3 units)
8	KL-0039-1823-5	Spacer Tube
10	KL-0039-1762	Pressure Sleeve, Ø 62mm (installation)
11	KL-0039-1662	Support Sleeve, Ø 62mm (installation)
12	KL-0039-1828-1	Support Sleeve for Shoulder Ø 60mm
13	KL-0039-1829	Pressure Sleeve (removal)

2.3 Technical Data

Inner length (press frame)..... 275mm
 Inner width (press frame)..... 115mm
 Maximum load capacity of the press frame:..... 12t
 Maximum load capacity of the hydraulic cylinder: 17t

3. Preparatory Work

Before first use, check the pressing device and confirm you have all the parts listed in the scope of delivery. Then, read and follow the mounting instructions.

3.1 Checking the Delivery (Fig. 1 and 2)

3.2 Preparing the Vehicle

Raise vehicle and loosen and/or remove parts/components as necessary.

3.3 Preparing the Tool

1. Screw pressure spindle '4' into hydraulic cylinder '1'.
2. Screw hydraulic cylinder '1' into press frame '2'.

Note:

- If using press frame **KL-0043-8510** instead of press frame **KL-0039-1140**, be sure to screw adaptor '2.1' (see page 10) completely into the upper base plate of press frame **KL-0043-8510**.
3. Push adaptor '3' onto pressure spindle '4'.
Note:
 - If using pressure spindle **KL-0040-2510** instead of pressure spindle **KL-0039-1930**, be sure to push retaining adaptor '3.1' (see page 10) onto pressure spindle **KL-0040-2510**.
 4. The press frame is now ready for use. (Fig. 4)

Fig. 5: Identifying the shoulder \varnothing of the suspension ball joint. (Only applies to KL-0039-750)

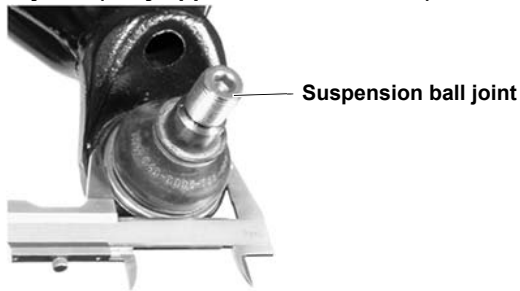


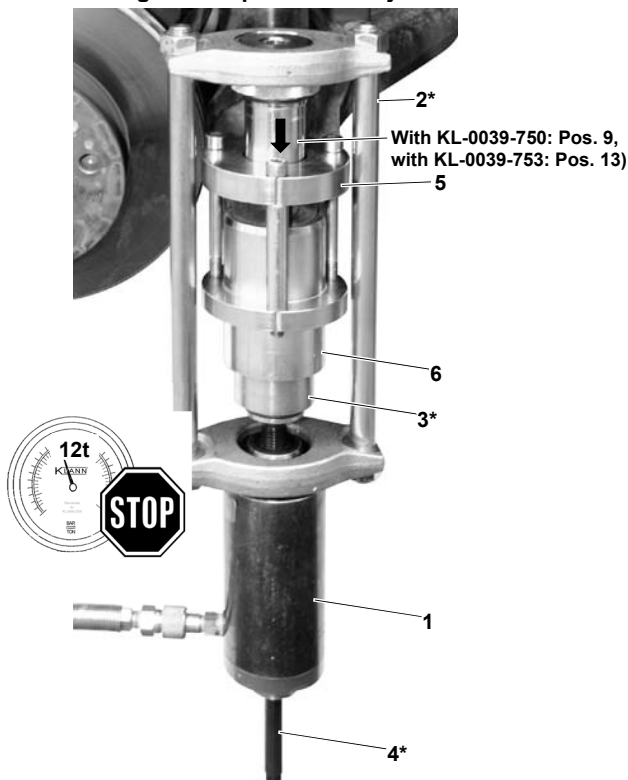
Fig. 6: Clamping washer centrally aligned with the suspension ball joint.



Fig. 7: Tightening the cheese head screws.



Fig. 8: Applying the press frame against wishbone, removing the suspension ball joint.



* = established from point 3.3 (Preparing the Tool)

4. Suspension Ball Joint Removal /Suspension Ball Joint Installation

The following instructions describe the procedure of removing and installing a suspension ball joint from/to the lower wishbone on the front axle.

4.1 Removing the Suspension Ball Joint

1. **ATTENTION** (only applies to KL-0039-750)

Remember that in Mercedes Sprinter (W904) and VW LT (2D) models, there are two different wishbones variants with two different suspension ball joints.

To establish the appropriate support sleeve, clean ball joint shoulder and measure diameter. (Fig. 5)

With shoulder \varnothing of 60mm, use support sleeve '6.1'.

With shoulder \varnothing of 62mm, use support sleeve '6.2'.

2. **ATTENTION**

Risk of damage to pressure sleeve ('9' with KL-0039-750, or '13' with KL-0039-753) when removing the suspension ball joint.

- When positioning, make sure that the bore in clamping washer '5' is centrally aligned with the suspension ball joint (Fig. 6). Failing this, there is a risk of the pressure sleeve ('9' with KL-0039-750, or '13' with KL-0039-753) colliding with the retaining bore in the wishbone.

Note:

- Make sure that the markings set on the outer surface of clamping washer '5' and support sleeve ('6.1' or '6.2' with KL-0039-750, or '12' with KL-0039-753) are on the same axis. (Fig. 7)
- In a first step, tighten cheese head screws '7.1' and '7.2' to a torque of 20 Nm. Only then, in a second step, tighten cheese head screw '7.3' to a torque of 20 Nm. (Fig. 7)

Mount clamping washer '5' and support sleeve ('6.1' or '6.2' with KL-0039-750, or '12' with KL-0039-753) and spacer tube '8' with cheese head screws '7.1, 7.2 and 7.3' to wishbone as shown Fig. 7.

3. Insert pressure sleeve ('9' with KL-0039-750, or '13' with KL-0039-753) into press frame '2**'.

4. Apply press frame '2**' with pressure sleeve ('9' with KL-0039-750, or '13' with KL-0039-753) against wishbone.

5. Manually screw in pressure spindle '4**' until retaining adaptor '3**' touches support sleeve '6'. (Fig. 7)

6. Connect hydraulic cylinder '1' to hydraulic pump (accessory).

7. **⚠ WARNING**

When removing the suspension ball joint, there is a danger that the tool could break and fall to pieces. This will lead to parts becoming projectiles.

- Observe and do not exceed the maximum load capacity.
- Use hydraulic pump with pressure gauge KL-0040-2529.
- Only use the genuine spare parts from GEDORE Automotive.
- Always keep all parts of your body away from the axial extension of the press frame.

ATTENTION

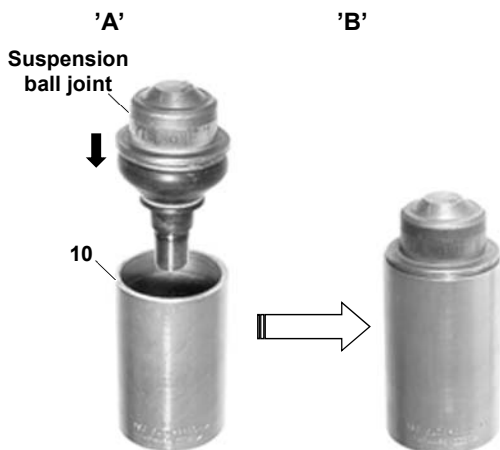
Risk of damage to pressure sleeve ('9' with KL-0039-750, or '13' with KL-0039-753) when removing the suspension ball joint.

- Make sure that pressure sleeve ('9' with KL-0039-750, or '13' with KL-0039-753) bears properly against the suspension ball joint.

Activate hydraulic pump and remove suspension ball joint. During the removal process, monitor the hydraulic pressure and necessary force on the pressure gauge of the hydraulic pump.

8. Remove tool from wishbone.

Fig. 9: Inserting the suspension ball joint into pressure sleeve.



4.2 Installing the Suspension Ball Joint

1. Insert new suspension ball joint into pressure sleeve '10'. (Fig. 9 A and B)
2. Insert support sleeve '11' into press frame '2**'.
3. Apply press frame '2**' with support sleeve '11' against wishbone.
4. Push pressure sleeve '10' onto retaining adaptor '3**'.
5. Manually screw in pressure spindle '4**' until suspension ball joint bears on wishbone. (Fig. 10)
6. Connect hydraulic cylinder '1' to hydraulic pump (accessory).

7. **⚠ WARNING**

When installing the suspension ball joint, there is a danger that the tool could break and fall to pieces. This will lead to parts becoming projectiles.

- Observe and do not exceed the maximum load capacity.
- Use hydraulic pump with pressure gauge **KL-0040-2529**.
- Only use the genuine spare parts from GEDORE Automotive.
- Always keep all parts of your body away from the axial extension of the press frame.

ATTENTION

Risk of damage to support sleeve '11' during the installation process.

- Align the support sleeve so as to enable the suspension ball joint to be installed smoothly without any risk of collision. Activate hydraulic pump and install suspension ball joint. During the installation process, monitor the hydraulic pressure and necessary force on the pressure gauge of the hydraulic pump.

8. Stop installation process as soon as suspension ball joint is correctly positioned.
9. Remove tool, check position of the suspension ball joint and reassemble vehicle in accordance with the manufacturer's instructions.

5. Care and Storage

ATTENTION Petroleum ether and chemical solvents can damage plastic parts. Always clean all parts after their use with a clean cloth only.

In order to protect against corrosion, lightly lubricate all metal parts after their use with oil and store them in a clean and dry place.

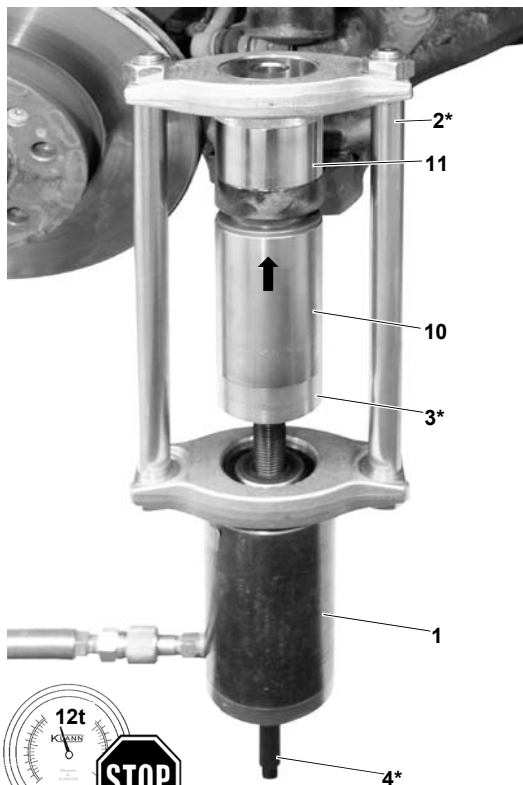
6. Accessories

KL-0215-35 M25 Hydraulic Hand Pump

Use hydraulic hand pump **KL-0215-35 M25** to operate the pressing device.

Note: The hydraulic pressure and necessary force can be monitored while operating the pump at pressure gauge **KL-0040-2529**, (supplied with the tool set). The pressure gauge features an additional tonne scale which is precisely adapted to our **KL-0040-2500** hydraulic cylinder (17t).

Fig. 10: Applying the press frame against wishbone. Installing the suspension ball joint.



* = established from point 3.3 (Preparing the Tool)

Fig. 11: Accessory: KL-0215-35 M25



Fig. 12: Spare Parts Overview: KL-0039-750

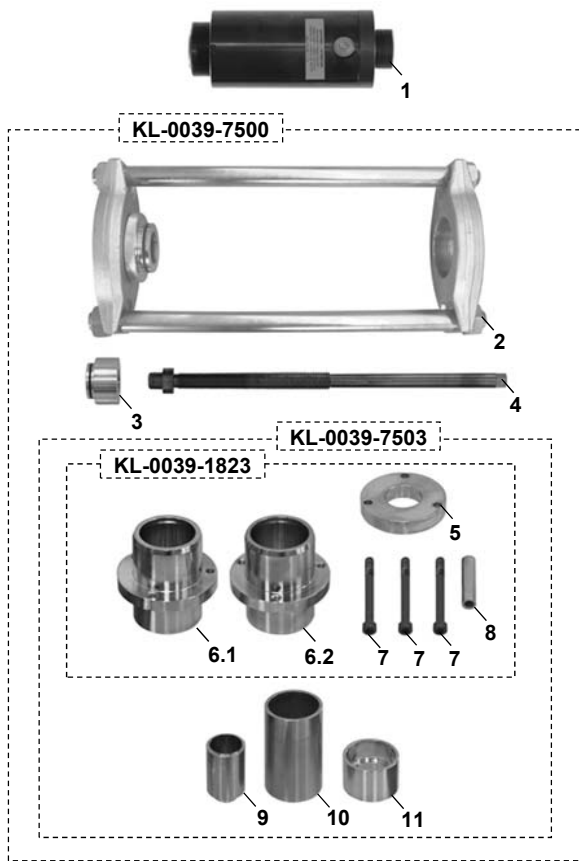
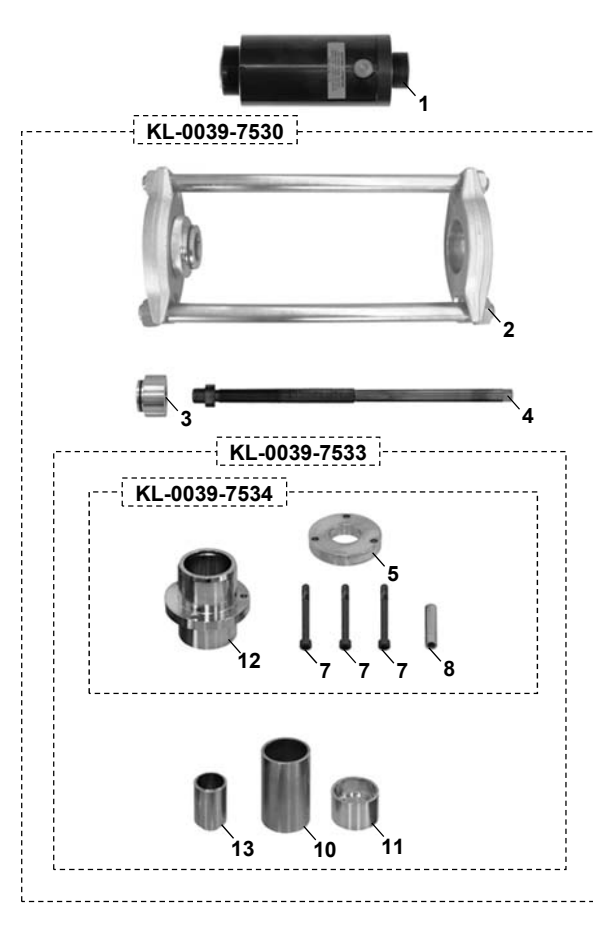


Fig. 13: Spare Parts Overview: KL-0039-753



7. Maintenance and Repair by the GEDORE Automotive Service Centre

For safety reasons, as soon as damage is noticed on the pressing device, immediate steps must be taken to prevent it from being used. For professional inspection and repair of the tool, please contact the GEDORE Automotive Service Centre.

Address:

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Phone: 0771 83 22 371

email: info@gedore-automotive.com

For additional information concerning the use of our pressing device, please contact the GEDORE Automotive Service Centre.

8. Spare Parts List

KL-0039-750 - Pressing Device with Hydr. Cyl., Mercedes Sprinter (W904) (Pat.)

Pos.	Part No.	Description	Qty
	KL-0039-750	Pressing Device with Hydraulic Cylinder, Mercedes Sprinter (W904)	1
<i>composed of:</i>			
	KL-0039-7500	Pressing Device without Hydraulic Cylinder, Mercedes Sprinter (W904)	1
1	KL-0040-2500	Hydraulic Cylinder (17t)	1

Pos.	Part No.	Description	Qty
	KL-0039-7500	Pressing Device without Hydraulic Cylinder, Mercedes Sprinter (W904)	1
<i>composed of:</i>			
	KL-0039-7503	Sleeve Set, (short design), Mercedes Sprinter (W904)	1
2	KL-0039-1140	Press Frame, (lightweight, short)	1
3	KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
4	KL-0039-1930	Pressure Spindle, M20x350, with O-Ring	1

Pos.	Part No.	Description	Qty
	KL-0039-7503	Sleeve Set, (short design), Mercedes Sprinter (W904)	1
<i>composed of:</i>			
	KL-0039-1823	Support Sleeves with Clamping Washer, Mercedes Sprinter (W904)	1
9	KL-0039-1824	Pressure Sleeve	1
10	KL-0039-1762	Pressure/Support Sleeve, long, Ø 62mm	1
11	KL-0039-1662	Pressure/Support Sleeve, short Ø 65mm	1

Pos.	Part No.	Description	Qty
	KL-0039-1823	Support Sleeves with Clamping Washer, Mercedes Sprinter (W904)	1
<i>composed of:</i>			
5	KL-0039-1823-3	Clamping Washer	1
6.1	KL-0039-1823-1	Support Sleeve for Shoulder Ø 60mm	1
6.2	KL-0039-1823-2	Support Sleeve for Shoulder Ø 62mm	1
7	KL-0039-1823-4	Cheese Head Screw, M10x120mm	3
8	KL-0039-1823-5	Spacer Tube	1

KL-0039-753 - Pressing Device with Hydr. Cyl., Mercedes Sprinter (W906) (Pat.)

Pos.	Part No.	Description	Qty
	KL-0039-753	Pressing Device with Hydraulic Cylinder, Mercedes Sprinter (W906)	1
<i>composed of:</i>			
	KL-0039-7530	Pressing Device without Hydraulic Cylinder, Mercedes Sprinter (W906)	1
1	KL-0040-2500	Hydraulic Cylinder (17t)	1

Pos.	Part No.	Description	Qty
	KL-0039-7530	Pressing Device without Hydraulic Cylinder, Mercedes Sprinter (W906)	1
<i>composed of:</i>			
	KL-0039-7533	Sleeve Set, Mercedes Sprinter (W906)	1
2	KL-0039-1140	Press Frame (lightweight, short design)	1
3	KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
4	KL-0039-1930	Pressure Spindle, M20x350mm	1

Pos.	Part No.	Description	Qty
	KL-0039-7533	Sleeve Set, Mercedes Sprinter (W906)	1
<i>composed of:</i>			
	KL-0039-7534	Support Sleeves with Clamping Washer, Mercedes Sprinter (W906)	1
10	KL-0039-1762	Pressure Sleeve, long, Ø 62mm	1
11	KL-0039-1662	Support Sleeve, short, Ø 62mm	1
13	KL-0039-1829	Pressure Sleeve	1

Pos.	Part No.	Description	Qty
	KL-0039-7534	Support Sleeve with Clamping Washer, Mercedes Sprinter (W906)	1
<i>composed of:</i>			
5	KL-0039-1823-3	Clamping Washer	1
7	KL-0039-1823-4	Cheese Head Screw, M10x120mm	3
8	KL-0039-1823-5	Spacer Tube	1
12	KL-0039-1828-1	Support Sleeve for Shoulder Ø 60mm	1

Fig. 14: KL-0039-7535 - Upgrade Kit

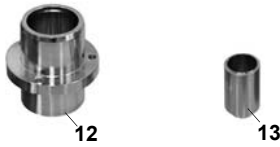


Fig. 15: KL-0039-7501 Sleeve Set, Mercedes Sprinter (W904)

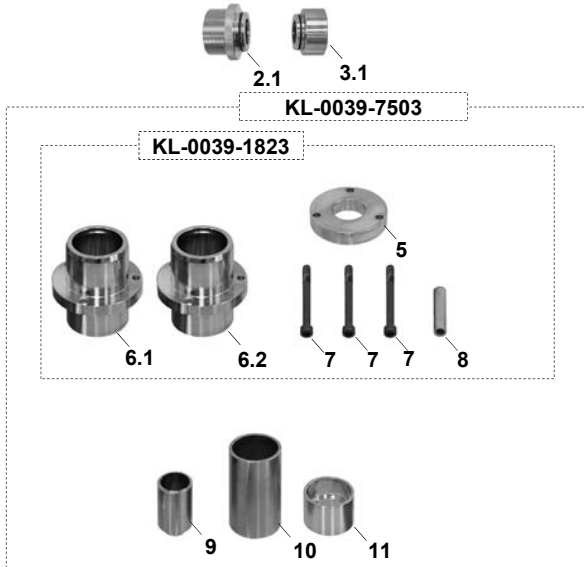
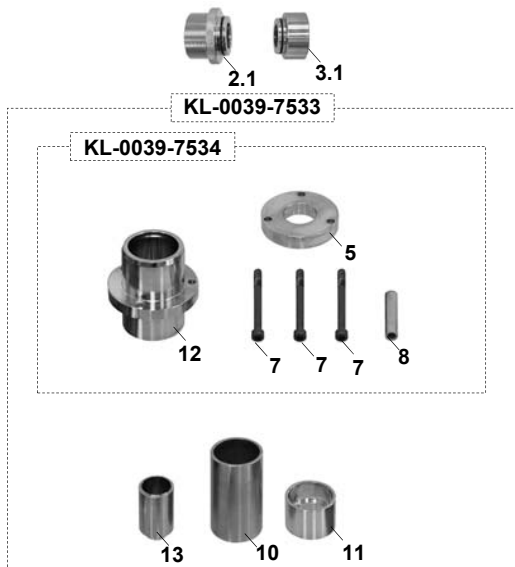


Fig. 16: KL-0039-7531 Sleeve Set, Mercedes Sprinter (W906)



9. Upgrade Kits

9.1 For Pressing Device KL-0039-750 KL-0039-7535 - Upgrade Kit

The upgrade kit KL-0039-7535 enables the pressing device KL-0039-750 also to be used on Mercedes Sprinter (W906) models from 2006 onwards and VW Crafter (2E / 2F) models from 2006 onwards.

Pos.	Part No.	Description	Qty
	KL-0039-7535	Upgrade Kit for KL-0039-750	1
<i>composed of:</i>			
12	KL-0039-1828-1	Support Sleeve for Shoulder Ø 60mm	1
13	KL-0039-1829	Pressure Sleeve	1

9.2 For Press Frame KL-0043-8510 with Pressure Spindle KL-0040-2510

KL-0039-7501 Sleeve Set, short, Mercedes Sprinter (W904) (Pat.)

With this sleeve set you will additionally need press frame KL-0043-8510, hydraulic cylinder KL-0040-2500, pressure spindle KL-0040-2510 and a hydraulic pump with 17t pressure gauge KL-0040-2529.

Pos.	Part No.	Description	Qty
	KL-0039-7501	Sleeve Set, Mercedes Sprinter (W904)	1

<i>composed of:</i>			
	KL-0039-7503	Sleeve Set (short design), Mercedes Sprinter (W904)	1
3.1	KL-0039-1004	Retaining Adaptor for Pressure Spindle	1
2.1	KL-0039-1106	Adaptor, M42x2mm to Ø 30mm	1

Pos.	Part No.	Description	Qty
	KL-0039-7503	Sleeve Set (short design), Mercedes Sprinter (W904)	1

<i>composed of:</i>			
	KL-0039-1823	Support Sleeves with Clamping Washer, Mercedes Sprinter (W904)	1
9	KL-0039-1824	Pressure Sleeve	1
10	KL-0039-1762	Pressure/Support Sleeve, long, Ø 62mm	1
11	KL-0039-1662	Pressure/Support Sleeve, short Ø 65mm	1

Pos.	Part No.	Description	Qty
	KL-0039-1823	Support Sleeves with Clamping Washer, Mercedes Sprinter (W904)	1

<i>composed of:</i>			
5	KL-0039-1823-3	Clamping Washer	1
6.1	KL-0039-1823-1	Support Sleeve for Shoulder Ø 60mm	1
6.2	KL-0039-1823-2	Support Sleeve for Shoulder Ø 62mm	1
7	KL-0039-1823-4	Cheese Head Screw, M10x120mm	3
8	KL-0039-1823-5	Spacer Tube	1

KL-0039-7531 Sleeve Set, short, Mercedes Sprinter (W906) (Pat.)

With this sleeve set you will additionally need press frame KL-0043-8510, hydraulic cylinder KL-0040-2500, pressure spindle KL-0040-2510 and a hydraulic pump with 17t pressure gauge KL-0040-2529.

Pos.	Part No.	Description	Qty
	KL-0039-7531	Sleeve Set (short design), Mercedes Sprinter (W906)	1

<i>composed of:</i>			
	KL-0039-7533	Sleeve Set (short design), Mercedes Sprinter (W906)	1
3.1	KL-0039-1004	Retaining Adaptor for Pressure Spindle	1
2.1	KL-0039-1106	Adaptor, M42x2mm to Ø 30mm	1

Pos.	Part No.	Description	Qty
	KL-0039-7533	Sleeve Set (short design), Mercedes Sprinter (W906)	1

<i>composed of:</i>			
	KL-0039-7534	Support Sleeve with Clamping Washer, Mercedes Sprinter (W906)	1
10	KL-0039-1762	Pressure Sleeve, long, Ø 62mm	1
11	KL-0039-1662	Support Sleeve, short, Ø 62mm	1
13	KL-0039-1829	Pressure Sleeve	1

Pos.	Part No.	Description	Qty
	KL-0039-7534	Support Sleeve with Clamping Washer, Mercedes Sprinter (W906)	1

<i>composed of:</i>			
5	KL-0039-1823-3	Clamping Washer	1
7	KL-0039-1823-4	Cheese Head Screw, M10x120mm	3
8	KL-0039-1823-5	Spacer Tube	1
12	KL-0039-1828-1	Support Sleeve for Shoulder Ø 60mm	1

10. Environmentally Safe Disposal

Recycle/dispose of the pressing devices, upgrade kits, and packaging material in an environmentally safe manner in compliance with the applicable national legal rules and regulations in force.

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