

KL-0069 / KL-0069-5 K

Clutch aligner



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08/2026

KL-0069_5K_260804_DE.indd

**ENGLISH****EN**

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1. PLEASE READ AND UNDERSTAND FOR SAFETY REASONS



These operating instructions form part of **THE CLUTCH ALIGNER** and are intended to familiarise you with this specialised tool. Please read and understand these operating instructions before using the specialised tool and follow all the instructions, warnings and notes set out herein to ensure safe use. Keep the operating instructions in a safe place so that you or subsequent users can access them at any time. Be aware that, in the worst-case scenario, incorrect use of the special tool can lead to **DEATH** or **SERIOUS INJURY**! Stop work immediately if you are unsure about how to use the special tool and, if necessary, contact **GEDORE-Automotive**.

1.1 Target audience

These operating instructions are intended **solely** for trained specialists with comprehensive technical knowledge of motor vehicle repairs.

- ▶ This specialised tool **must only** be used in specialist automotive workshops by trained professionals who possess the necessary expertise in handling specialised automotive tools and are familiar with the applicable regulations on health and safety at work, accident prevention as well as environmental protection.
- ▶ The special tool **must never** be used by unauthorised, inexperienced or underage persons, **as well as** by persons with physical, sensory or mental impairments, **nor** by persons who are tired or under the influence of medication, alcohol, drugs or similar intoxicating substances.

1.2 Obligations of the owner

Under *the Ordinance on Industrial Safety and Health*, employers are obliged to provide their employees with safe work equipment! **GEDORE Automotive's** specialist tools comply with recognised technical standards as well as relevant safety regulations at the time they are placed on the market.

- ▶ **The owner** of the specialised tool **must ensure that only** trained specialists in specialist automotive workshops use the specialised tool!
- ▶ **The owner** of the specialised tool **must ensure** that the application has access to the relevant instructions and has read and understood them in full **before** using the specialised tool!
- ▶ **The owner** of the specialised tool **must ensure** that the user has the necessary expertise in handling specialised automotive tools, is familiar with the applicable regulations on health and safety at work, accident prevention and environmental protection, and has the necessary protective equipment at their disposal!

1.3 Intended use

The **CLUTCH ALIGNER**...

- ... **must only** be used for centring clutch discs in cars and vans!
- ... **must only** be used with genuine **GEDORE Automotive** spare parts and accessories!
- ... **must only** be used in the manner described in the operating instructions!
- ⚠ Any other use may result in **DEATH** or **SERIOUS INJURY** !

1.4 Reasonably foreseeable misuse

The **CLUTCH ALIGNER**...

- ... **must never** be used to centre other parts or in any way other than that for which it is intended!
- ... **must never** be used as a timing belt tensioner for clutch pressure plates!
- ... **must never** be left unattended on the vehicle whilst unsecured!
- ... **must never** be used for batch processing involving a large number of constantly recurring operations!
- ... **must never** be altered, modified or used for any purpose other than its intended one without authorisation!
- ⚠ **Always** use the special tool for its intended purpose. Any other use may result in **DEATH** or **SERIOUS INJURY** !

1.5 Personal protective equipment

For your own safety, please wear personal protective equipment when using the special tool! The special tool may pose mechanical hazards such as crushing, cuts and impact injuries.



Wear **EYE PROTECTION** (e.g. DIN EN 166, OSHA 29 CFR 1910.133, ANSI Z87) when using the special tool, to protect against flying debris or particles!

►When using the special tool, flying parts or particles may **cause SERIOUS INJURY to your eyes** !



Wear **PROTECTIVE GLOVES** (e.g. DIN EN 388, OSHA 29 CFR 1910.138, ANSI 105) when using the special tool, to protect against sharp edges and pinching between parts!

►When using the special tool, sharp edges and pinching between parts can **cause SERIOUS INJURY to your hands** !



Wear **SAFETY FOOTWEAR** (e.g. DIN EN ISO 20345, OSHA 29 CFR 1910.136, ANSI Z41) when using the special tool, to protect against falling parts!

►When using the special tool, falling parts may **cause SERIOUS INJURY to your feet and toes** !

1.6 Labelling of warning notices

Warnings highlight **potential hazards** which, if ignored, could in the worst-case scenario result in **DEATH** or **SERIOUS INJURY**, and must therefore be observed at all times. In these operating instructions, the warnings are classified as follows to make them easier to distinguish and recognise:

Warning sign	Meaning
WARNING	Note of a potentially dangerous situation which, if not avoided, could result in DEATH or SERIOUS INJURY !
CAUTION	Note of a dangerous situation which, if not avoided, may result in MODERATE or MINOR INJURIES !
ATTENTION	Note on a situation which, if not avoided, may result in damage to the tool or to objects in its vicinity!
i	Notes on important information and useful tips.

1.7 Work environment

Only use the special tool in a safe working environment, and **do not** expose it to extreme temperatures, direct sunlight, as well as extreme humidity and dampness!

- The workplace **must** be clean and tidy.
- The workplace **must** be of a sufficient size and well lit.
- The workplace **must** have a stable and non-slip surface.
- The workplace **must** be secured to prevent unauthorised persons from gaining access.
- The workplace **must** have a room temperature within the range of -10°C to +40°C.

1.8 Care / Storage

ATTENTION

Improper care and storage can cause damage to the specialised tool.

- Never** immerse the special tool in water, solvents or any other cleaning fluids.
- Clean the special tool using **only** a dry, clean cloth.
- Only** use special acid-free oils or greases designed for tool maintenance to protect the special tool.
- It is essential that** you store the special tool in a dry and clean place, together with the accompanying operating instructions.

1.9 Environmentally friendly disposal

Dispose of the specialised tools and packaging materials in an environmentally responsible manner, in accordance with legal requirements. If necessary, contact your local authority to enquire about environmentally friendly disposal options.

1.10 Basic safety, warning and handling instructions

WARNING **CAUTION** **ATTENTION**

Failure to comply may result in life-threatening situations, injuries and damage!

When using the special tool, always observe the following safety, warning and handling instructions, and strictly adhere to all measures to prevent life-threatening situations, injuries and damage to property resulting from hazards, incorrect use, misuse or improper handling.

- ▶ **For use by qualified personnel only:** This specialised tool must only be used in specialist automotive workshops by trained professionals, who possess the necessary expertise and are familiar with the applicable regulations.
- ▶ **Do not use whilst tired or under the influence:** This specialised tool must never be used by unauthorised persons as well as by those with restricted authorisation, or by anyone who is tired or under the influence of intoxicating substances.
- ▶ **Read the instructions:** The special tool must be used in accordance with these operating instructions as well as any instructions for accessories, and all instructions, warnings and notes contained therein must be strictly observed.
- ▶ **Comply with applicable safety regulations:** The specialised tool must always be used in accordance with the applicable regulations on health and safety at work, accident prevention and environmental protection.
- ▶ **Wear personal protective equipment:** When using the specialised tool, you must always wear the required protective equipment, such as safety goggles, protective gloves and safety footwear.
- ▶ **Use only genuine parts:** The special tool must only be used with genuine spare parts and accessories from GEDORE Automotive.
- ▶ **Check before use:** Before use, the special tool must be checked for damage, loose parts as well as unauthorised modifications, and to ensure it is suitable for the intended application.
- ▶ **Regular safety checks:** For safety reasons, the special tool should undergo a safety check every 24 months, carried out by authorised GEDORE-Automotive specialists.
- ▶ **Do not use if damaged or faulty:** The special tool must not be used if it is damaged or has any other faults, and must be checked and repaired before its next use.
- ▶ **Repairs or maintenance must only be carried out by qualified personnel:** For safety reasons, this specialist tool must only be repaired or serviced by specially trained GEDORE-Automotive personnel.
- ▶ **Stop work immediately if handling is unsafe:** The special tool must not be used if it cannot be handled safely; if necessary, consult the instructions or seek assistance from GEDORE Automotive if necessary.
- ▶ **Regular cleaning and lubrication:** The specialised tool, in particular its moving parts and the spindle, must be checked regularly for contamination, cleaned if necessary, and treated with approved lubricants.
- ▶ **Follow vehicle-specific applications:** When carrying out vehicle-specific applications, the special tool must always be used in accordance with the vehicle manufacturer's instructions and specifications.
- ▶ **Ensure the immediate work area is clear:** The special tool must only be used if there are no unauthorised persons in the immediate work area.
- ▶ **Ensuring stability:** The special tool must always be checked to ensure it is stable and secure.
- ▶ **Never exceed the maximal load:** The special tool must never be overloaded or operated with a load exceeding the maximum permitted limit.
- ▶ **Never use for mass production:** The special tool must never be used in mass production, particularly not in processes that are repeated rapidly and carried out over short distances.
- ▶ **Never leave unattended whilst under load:** The special tool must never be left unattended on the vehicle or component, particularly whilst under load.
- ▶ **Avoid subjecting the tool to damaging forces:** The special tool must never be subjected to impacts, clamping or other damaging forces, particularly whilst under load.
- ▶ **Cleaning after use:** After use, the special tool must only be cleaned with a clean, dry cloth; immersing it in water, solvents or other cleaning fluids is strictly prohibited.
- ▶ **Environmentally sound disposal:** Specialised tools and packaging materials must always be disposed of in an environmentally sound manner, in accordance with legal requirements; if in any doubt, please contact the local authorities.
- ▶ **Exclusion of liability, warranty and guarantee:** The special tool must always be used in accordance with the safety instructions; in the event of non-compliance or misuse, the user assumes sole responsibility, and GEDORE-Automotive excludes any claims for liability, warranty or guarantee.
- ▶ **Disclaimer regarding the documentation:** The special tool and its application are described in detail in this manual; however, technical changes, errors, omissions, inaccuracies, mistakes, as well as damage or consequences resulting from incorrect application or misuse can never be ruled out.

2. PRODUCT DESCRIPTION

2.1 KL-0069-5 K – Clutch aligner

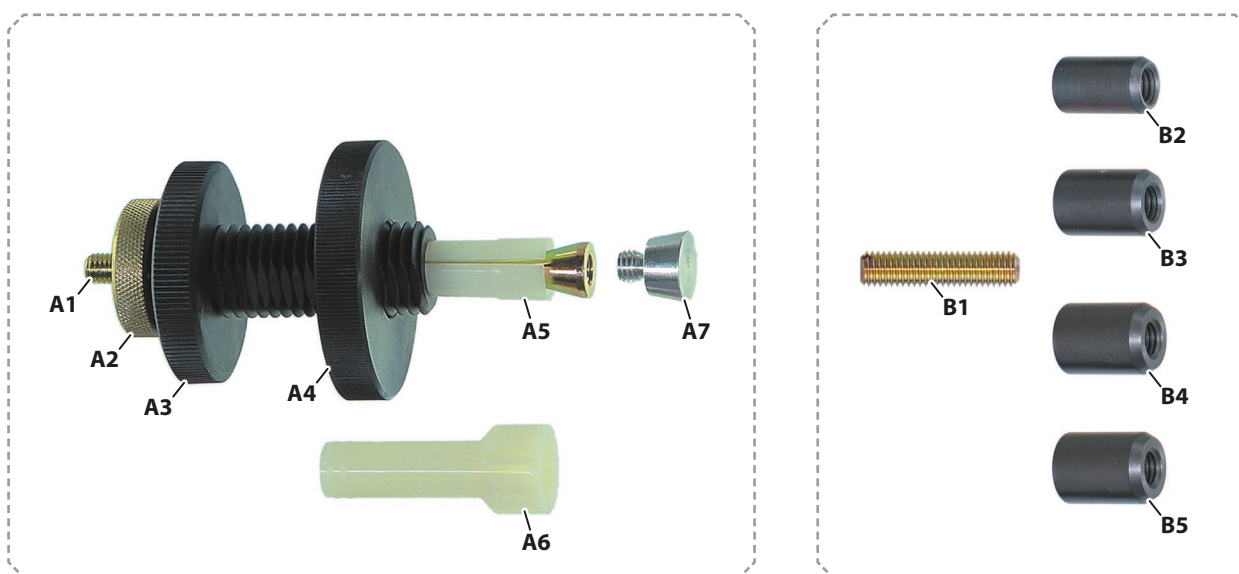
Suitable for vehicles with and without pilot/guide bearings, particularly for clutch discs with a hub diameter of 15–29 mm or a pilot/guide bearing diameter of 12–16 mm.

The centring tool is used to align the clutch disc precisely with the pressure plate or the flywheel. This enables the clutch to be fitted quickly and correctly.

2.2 KL-0069 – Clutch aligner

Suitable for vehicles without pilot/guide bearings, particularly for clutch discs with a hub diameter of 15–29 mm.

Same as **KL-0069-5 K**, except that the centring sleeve set – **KL-0069-5010** for pilot/guide bearings – and the plastic storage case – **KL-0069-5030** – are not included in the scope of delivery.



Scope of delivery/Single part overview

Pos.	Part No.	Description	Qty.
-	KL-0069-5 K	Clutch aligner	1
A	KL-0069	Clutch aligner	1
A1	KL-0069-5004	Clamping screw	1
A2	KL-0069-5003	Clamping nut	1
A3	KL-0069-0001	Base body	1
A4	KL-0069-5002	Fixing nut	1
A5	KL-0069-0005	Clamping cone, size 1, 15 mm	1
A6	KL-0069-0006	Clamping cone, size 2, 22 mm	1
A7	KL-0069-0050	Conical adaptor	1
B	KL-0069-5010 A	Set of centring sleeves	1
B1	KL-0069-5011	M8 x 35 mm set screw	1
B2	KL-0069-5012	12 mm centring sleeve	1
B3	KL-0069-5013	14 mm centring sleeve	1
B4	KL-0069-5014	15 mm centring sleeve	1
B5	KL-0069-5015	16 mm centring sleeve	1
-	KL-0069-5030	Plastic storage case with insert	1

Technical data

Expansion range for clamping cone **[A5]**:Ø 15–22 mm

Expansion range for clamping cone **[A6]**:Ø 22–29 mm

Diameter of centring sleeve **[B2]**: Ø 12 mm

Diameter of centring sleeve **[B3]**: Ø 14 mm

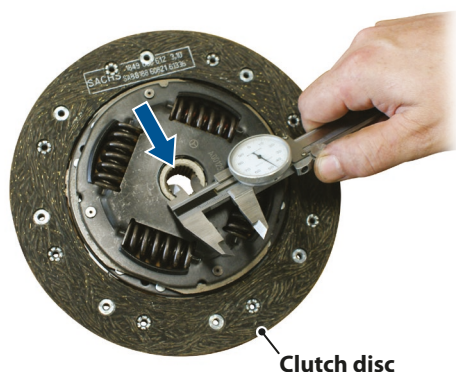
Diameter of centring sleeve **[B4]**: Ø 15 mm

Diameter of centring sleeve **[B5]**: Ø 16 mm

3. PREPARATION

3.1 Preparing the tool

📷1: Determine the clamping cone and centring sleeve...



1. Measure the inner $\varnothing$ of the clutch disc and, based on the measurement, select the suitable clamping cone [A5] or [A6]:

Clamping cone [A5]: $\varnothing$ 15–22 mm

Clamping cone [A6]: $\varnothing$ 22–29 mm



2. Additionally, for flywheels **with** a pilot/guide bearing, measure the inner $\varnothing$ of the bearing and use this measurement to select the appropriate centring sleeve [B2], [B3], [B4] or [B5]:

Centring sleeve [B2]: $\varnothing$ 12 mm

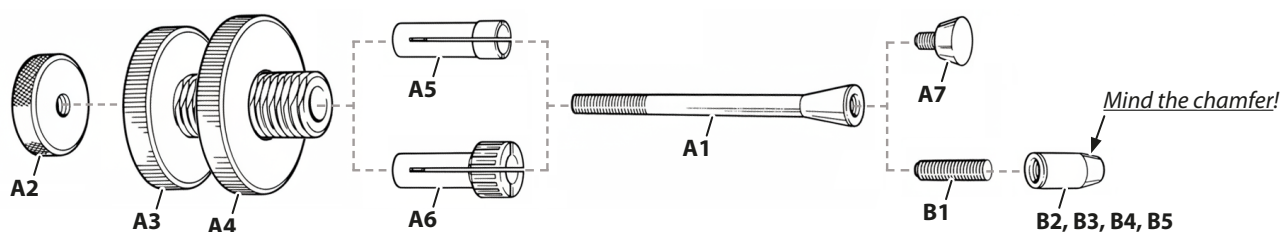
Centring sleeve [B3]: $\varnothing$ 14 mm

Centring sleeve [B4]: $\varnothing$ 15 mm

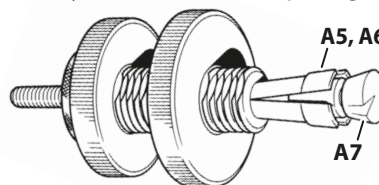
Centring sleeve [B5]: $\varnothing$ 16 mm

📷2: Assemble the clutch aligner...

3. Assemble the clutch aligner using the components selected previously at...



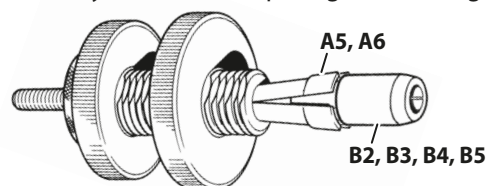
...for flywheels **without** a pilot/guide bearing.



4. For a flywheel **without** a pilot/guide bearing, see and continue to **section 4.1**.

For a flywheel **with** a pilot/guide bearing, see and continue to **section 4.2**.

...for flywheels **with** a pilot/guide bearing.



4. APPLICATION EXAMPLE

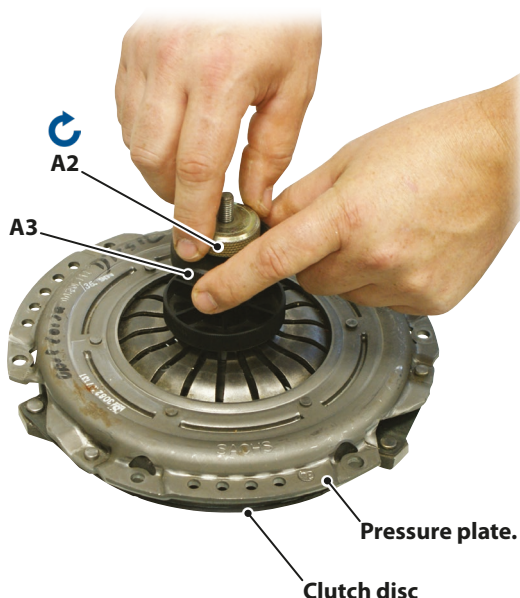
Centre the clutch disc on a flywheel **without** a pilot/guide bearing; see **section 4.1**.

Centre the clutch disc on a flywheel **with** a pilot/guide bearing; see **section 4.2**.

4.1 Centre the clutch disc using the pressure plate

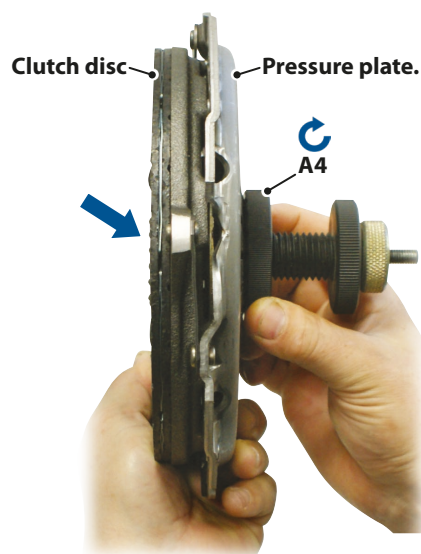
This application example describes the process for centring a clutch disc using the pressure plate on a flywheel **without** a pilot or guide bearing.

📷3: Insert the clutch aligner in the correct position and spread it apart...

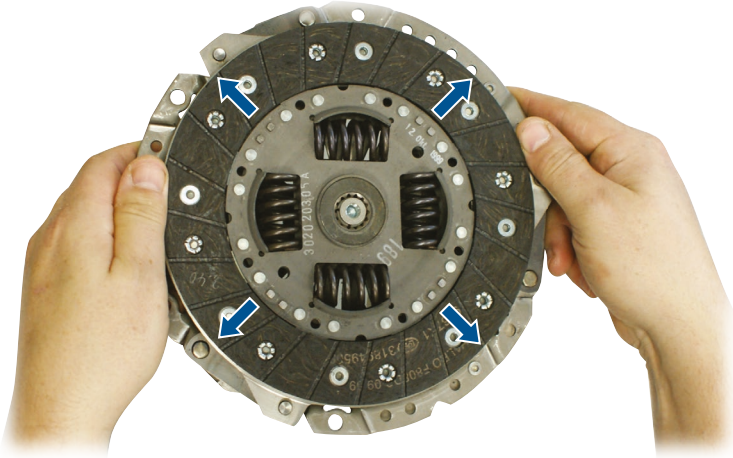


1. Place the clutch disc and pressure plate on top of one another on a flat, clean surface in accordance with the manufacturer's instructions and in the specified installation position.
2. Insert the prepared clutch aligner through the pressure plate until it reaches the stopper in the clutch disc.
3. Tighten the clamping nut **[A2]** by hand, whilst holding the base body **[A3]** in place to spread the clamping cone **[A5]** or **[A6]**.

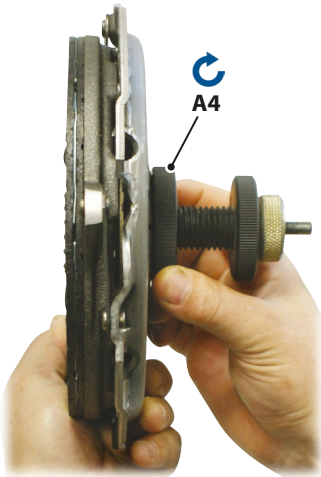
📷4: Screw the fixing nut on gently until it touches the pressure plate...



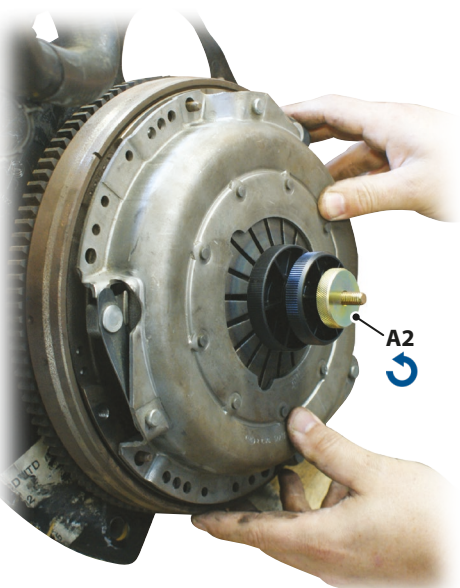
4. Screw the fixing nut **[A4]** on until it rests lightly against the pressure plate.
Ensure that the clutch aligner is flush with the rear face of the clutch disc.

📷5: Align the clutch disc exactly in the centre...


5. Align the clutch disc exactly in the centre of the pressure plate so that the distance to the outer edge is the same all round.

📷6: Tighten the fixing nut and secure the clutch disc ...


6. Once the clutch disc has been aligned exactly in the centre of the pressure plate, secure it in this position on the pressure plate by tightening the fixing nut [A4].

📷7: Fit the clutch disc and pressure plate in accordance with the manufacturer's instructions...

⚠️WARNING

When fitting the clutch, heavy parts may fall and cause **DEATH** or **SERIOUS INJURY** to the head or feet.

►The clutch aligner must never be left on the flywheel together with the clutch whilst it is unsecured!

►Wear personal protective equipment, such as safety footwear!

7. Fit the clutch disc and pressure plate to the flywheel in the correct position in accordance with the manufacturer's specifications.

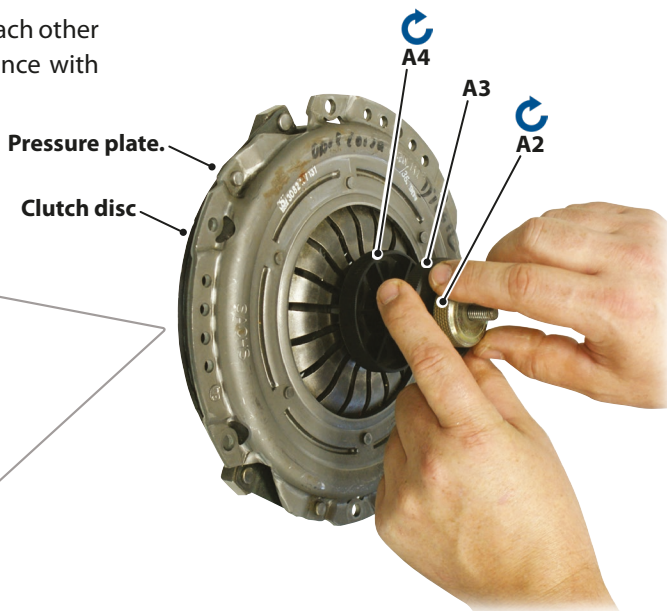
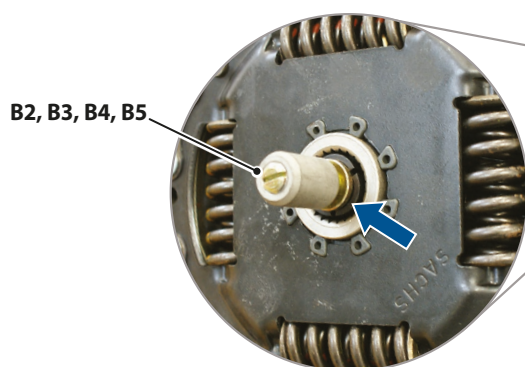
8. Once the work is complete, perform loosening on the clamping nut [A2] and remove the clutch aligner from the clutch.

4.2 Centre the clutch disc using the flywheel

This application example provides the description of how to centre a clutch disc using a flywheel with a pilot/guide bearing.

📸8: Insert the clutch aligner in the correct position and spread it apart...

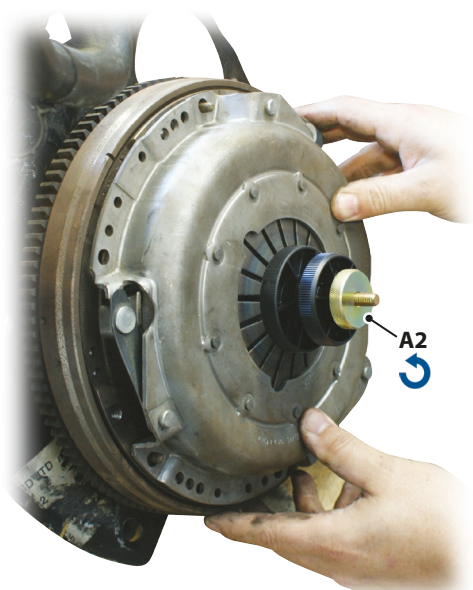
1. Place the clutch disc and pressure plate on top of each other in the prescribed installation position, in accordance with the manufacturer's instructions.



2. Insert the prepared clutch aligner through the pressure plate and into the clutch disc.
Ensure that the centring sleeve [B2], [B3], [B4] or [B5] protrudes sufficiently from the rear of the clutch disc so that it will later fit fully into the pilot/guide bearing on the flywheel.

3. Tighten the clamping nut [A2] by hand, whilst holding the base body [A3] in place to spread the clamping cone [A5] or [A6].
4. Screw the fixing nut [A4] on until it rests lightly against the pressure plate.

📸9: Fit the clutch disc and pressure plate in accordance with the manufacturer's instructions...



⚠️WARNING

When fitting the clutch, heavy parts may fall and cause **DEATH** or **SERIOUS INJURY** to the head or feet.

►The clutch aligner must never be left on the flywheel together with the clutch whilst it is unsecured!

►Wear personal protective equipment, such as safety footwear!

5. Fit the clutch disc with pressure plate to the flywheel in the correct position in accordance with the manufacturer's specifications. Ensure that the centring sleeve [B2], [B3], [B4] or [B5] is fully seated in the pilot/guide bearing on the flywheel.
6. Once the work is complete, perform loosening on the clamping nut [A2] and remove the clutch aligner from the clutch.

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