

• Joint cutters

- Diamond drilling
- Table saws
- Wall saws
- Wire saws
- Hydraulic units
- Special machinery



**CF-13.3 B /
CF-13.3 B-L**

Change index 000

Issue date 2021-11-05

Translation of the original operating manual



**Operating manual
maintenance manual
and safety notes**



This operating manual addresses specialists and users trained by specialists.

Read this operating manual carefully before commissioning and clarify any open questions with **CEDIMA®**.

This operating manual is an essential part of the machine, it must be handed over with the machine and always be kept at hand at the operating location of the machine.

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Translation of the original operating manual

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is a registered trademark of **CEDIMA®**
Diamantwerkzeug- und Maschinenbauges. mbH
Celle/Germany

EC Declaration of Conformity

Manufacturer:

CEDIMA® Diamantwerkzeug- und Maschinenbauges. mbH, Lärchenweg 3, D-29227 Celle/Germany

Collection and storage of the technical documentation:

Technical documentation of

CEDIMA® Diamantwerkzeug- und Maschinenbauges. mbH, Siedemeierkamp 5, D-29227 Celle/Germany

Machine description:

Joint cutter **CF·13.3 B / CF·13.3 B-L**

Walk-behind hand-guided for wet cutting in asphalt and concrete as well as similar abrasive construction materials with diamond saw blades from 300 to 500 mm diameter in left or right cutting. Max. saw blade mounting width 13 mm (left and right). Cutting shaft drive via V-ribbed belt from a petrol engine with 8.7 kW rated power. Max. cutting depth 195 mm, progressively and firmly adjustable via frame rocker and threaded rod, water supply via 23 l water container or pressurised water.

Measured sound pressure level: L_{WA} = 107 dB (A)

Guaranteed sound pressure level: L_{WA(d)} = 113 dB (A)

Procedure of conformity evaluation: RL 2000/14 EC, Annex V

Hereby we confirm that in the sense of EC Directive 2006/42/EC, Annex II 1.A dated 2006-05-17 (modifications inclusive) of the European Parliament and the Council

the joint cutter **CF·13.3 B** as of year of manufacturer 2018, **CF·13.3 B-L** as of year of manufacturer 2021

complies with the following harmonised standards and EU Directives:

EN ISO 12100-1, EN ISO 12100-2, EN 13862, EN ISO 14121-1, EN 60204-1, 2000/14/EC

In regard to dangers due to electricity, according to Annex I No. 1.5.1 of the Machinery Directive 2006/42/EC, the protective aims of the Low Voltage Directive 2006/95/EC (formerly 73/23/EEC) are met.

In regard to dangers due to radiation, according to Annex I No. 1.5.10 of the Machinery Directive 2006/42/EC, the protective aims of the EMC Directive 2004/108/EC (formerly 89/336/EEC) are met.

This declaration of conformity immediately becomes invalid if changes are incorporated to the machine which have not been approved by us!



Celle, 2021-09-17



Bob Siemsen (General Manager)

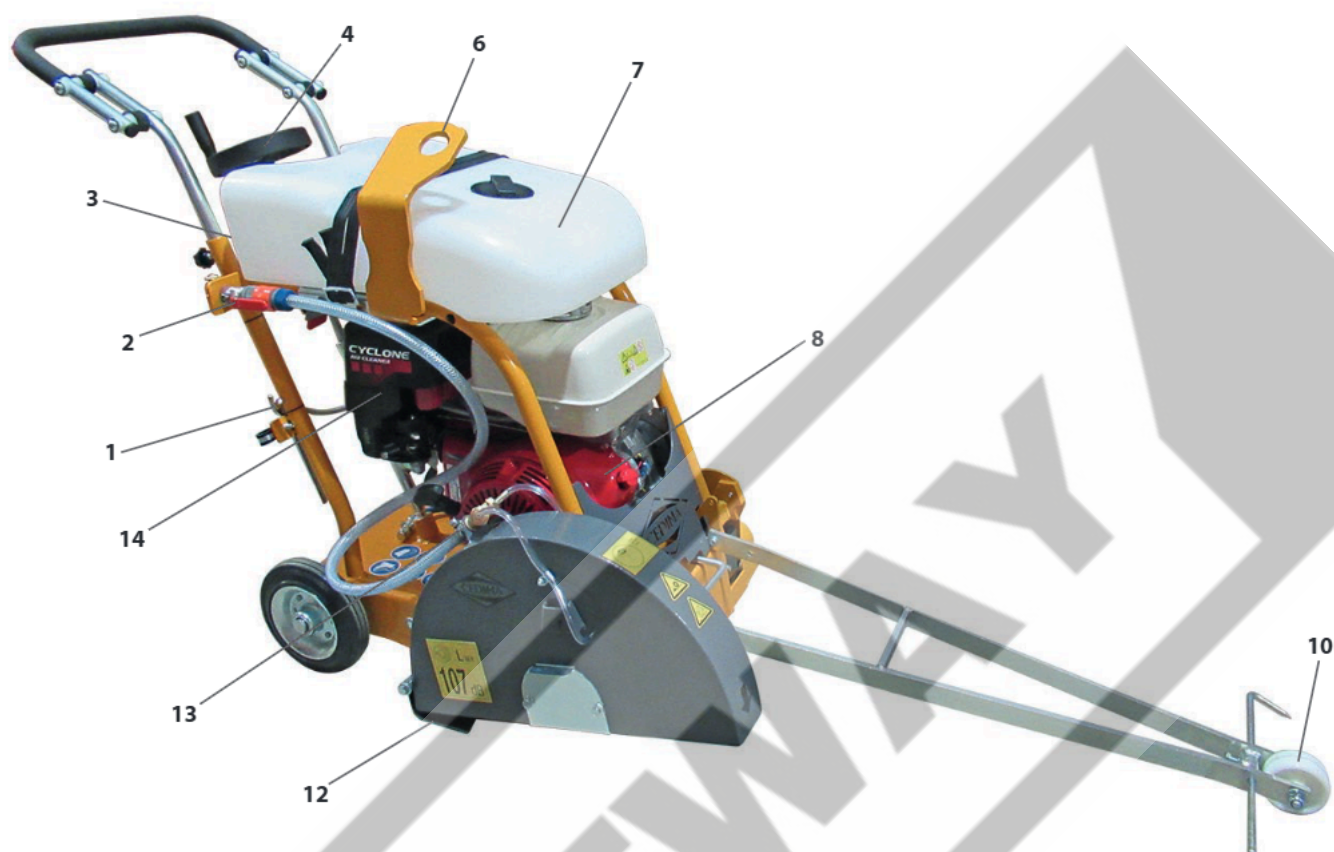


EC Declaration of conformity

Chapter 1	General product information, description
Chapter 2	Technical specifications and accessories
Chapter 3	Basic safety instructions
Chapter 4	Preparation and operation
Chapter 5	Cutting with the CEDIMA® joint cutter CF•13.3 B / CF•13.3 B-L
Chapter 6	Maintenance and care
Chapter 7	Transport and longer periods of non-service/storage
Chapter 8	Troubleshooting – What if ...?
Chapter 9	Return of machines / disposal
Chapter 10	Annex
10.0	Terms of warranty

1.0 Description of the joint cutter CF•13.3 B / CF•13.3 B-L

- The **CEDIMA®** CF•13.3 B / CF•13.3 B-L is designed as joint cutter/floor grinder-cutter for wet cutting of asphalt and concrete as well as similar abrasive construction materials with diamond saw blades for light repairs of roads, bicycle lanes and service roads ... as well as cutting of slots for cable laying and expansion joints. in right or left cutting (figures 1.1 and 1.2).
- The **saw blade guard (9)** can be mounted right or left. Optionally a hinged blade guard can be mounted, which allows cutting right up to walls and edges such as kerbstone.
- The **cutting shaft guard (19)** which can be exchanged with the saw blade guard is mounted to the respective opposite side of the cutting shaft.
- The compact design with the retractable **handle (15)** (front), the removable **water container (7)** and the **push handle (5)** allow for easy transport. With the **transport eye (6)**, the CF•13.3 B / CF•13.3 B-L can be easily dislocated (by crane, ...).
- The CF•13.3 B / CF•13.3 B-L is equipped with a water cooling/flushing system with a **water guide (13)** over the blade guard for wet cutting and thus allows for dust-free operation as well as good removal of the ground material which result is a long service life of the diamond saw blade. The water supply is provided via a removable container holding up to 23 litres with shut-off valve or via pressurised water from an external hose connected to the **Geka coupling (2)**. To protect the environment and the user against splash / wastewater, the saw blade guard is equipped with a **splash guard mat (12)**.
- The cutting shaft with the diamond saw blade is driven by a modern **Honda petrol engine (CF•13.3 B) (8)** or a **Loncin petrol engine (CF•13.3 B-L)** with additional **cyclone air filter (14)** via a **V-ribbed belt (18)**. Apart from transmitting the optimum cutting shaft speed, the V-ribbed belt also serves as overload slipping coupling and keeps hard impacts from the engine. The engine can be stopped quickly, also in normal operation, by the **emergency stop button (3)**.
- Feed is achieved by pushing the joint cutter at the adjustable, vibration-damped push handle.
- Lowering and lifting of the diamond saw blade is done by a clampable **crank handle (4)** with threaded spindle. If the saw blade is lifted, the joint cutter brakes automatically via the **wheel brake (17)**. With the progressively adjustable cutting depth adjustment, cutting depths up to 170 mm are possible and can be controlled at the **cutting depth indication (16)**.
- The diamond saw blades with 300 to 500 mm diameter are clamped (right or left) with a clamping width of 13 mm between the saw blade holding flange and the cutting shaft with a holding diameter of 25.4 mm plus driver pin as twist lock and saw blade pressure flange with central screw connection. The required **on-board tool (1)** is located at the corresponding holder.
- Drive unit and cutting shaft's speed have been designed to provide the best possible conditions for cutting with **CEDIMA®** diamond saw blades. For cutting we recommend **CEDIMA®** diamond saw blades which ensure protection of the joint cutter due to their easy of cutting and their smooth movement.
- The **front visor (10)** is mounted to the frame and enables the user to cut accurately on one line or in the pre-cut.



Joint cutter CF-13.3 B

Figure 1.1



Figure 1.2

2.0 Technical data and accessories for the CEDIMA® joint cutter CF•13.3 B / CF•13.3 B-L

2.1 Technical data

	CF•13.3 B	CF•13.3 B-L
Max. cutting depth *	195 mm	
Min. saw blade Ø	300 mm	
Max. saw blade-Ø	500 mm	
RPM cutting shaft	2400 rpm	
Saw blade receptacle side	right or left (in feed direction), with central hexagon clamping nut (size 24, right: left-hand thread, left: right-hand thread)	
Saw blade bore-Ø	25.4 mm	
Driver pin Ø	8 mm	
Saw blade clamping range	13 mm	
Saw blade guard	one-piece, optionally hinged	
Saw blade drive motor**	Honda GX 390 UT2-SN-C-OH, 1 cylinder, 4-stroke, petrol, with cyclone air filter	Loncin G420F LC, 1 cylinder, 4-stroke, petrol, Forced air cooling
Max. engine output***	8.7 kW bei 3600 rpm (net output acc. to SAE J 1349)	9 kW at 3600 rpm
Fuel**	normal petrol (unleaded, octane number 86 or higher)	
Fuel tank volume**	6.1 l	6.5 l
Fuel consumption at full load**	approx. 3.7 l/h	approx. 4.7 l/h
Engine oil**	1.1 l, SAE 10W-30	
Engine start**	reversing starter with pull wire	
Ambient temperature for operation**	from -15°C to 60 °C	
Height of operation**	up to 1500 m above sea level	
Specific mechanic safety components	slip coupling effect by V-ribbed belt drive, automatic wheel brake when lifting out the cutting shaft / saw blade	
Feed	manually by pushing the adjustable push handle	
Lifting out/lowering the cutting shaft	manually via clampable crank handle (threaded spindle)	
Dimensions L / W / H	approx. 1130 mm / 615 mm / 820 mm	
Transport Working width	approx. 1890 mm / 615 mm / 1000 mm	
Weight	from approx. 102 kg (without saw blade and water), up to approx. 131 kg (with saw blade and water in the water container)	
Water supply to the saw blade	water reservoir or pressurised water by hoses, shut-off / control valve, both sides via blade guard	
Water container, water filling volume	removable, approx. 16 bis 23 l	
Sound pressure level at the work place***	$L_{PA} = 94 \text{ dB (A)}$	
Measured sound pressure level***	$L_{WA} = 107 \text{ dB (A)}$	

* The maximum cutting depth is specified for CEDIMA® diamond saw blades with 100% segment height

** The operating manual of the engine is decisive!

*** During the cutting work, higher values can occur!

2.2 Vibration acceleration values, hand-arm vibration

Equivalent total vibration value $a_{hv, eq}$	10.2 m/s ²
Measurement uncertainty K	m/s ²

The given values can vary depending on the operating conditions (material to be cut, state of the machine, handling, user, diamond tools in use, etc.).

When determining the daily vibration load A (8) acc. to DIN EN ISO 5349-2, the real effective time must be considered which can be significantly influenced (reduced) by idle times. Idle times include times for fuelling, water supply, tool change, machine set-up and transport, securing the location of operation/use.

Measurement uncertainty acc. to DIN EN 12096.

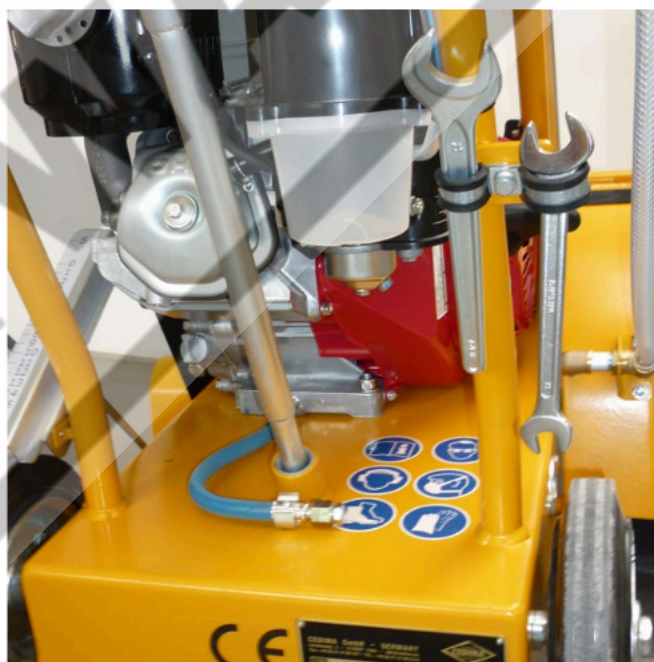


DANGER

Risk of injury when exceeding the daily maximum of vibration load!

2.3 Accessories supplied:

- 1 operating manual
- 1 operating manual for the engine
- 1 water container with lashing strap (mounted, figures 1.1 and 1.2)
- 1 tool set:
 - 1 x open-ended spanner size 13 / 17,
 - 1 x open-ended spanner size 24 (figure 2.1)



Provided tool set at tool holder

Figure 2.1

2.4 Optional accessories

Folding blade guard - 50009001

For damage resulting from using accessories that are not in accordance with CEDIMA®, we will refuse any liability.
For information about selecting the correct diamond saw blade, refer to the current price list and the current joint cutter brochure.

For special applications please ask CEDIMA® directly.

For further accessories refer to the current CEDIMA® price list.

3.0 Basic safety instructions

ATTENTION

Read and observe all operating manuals pertaining to the joint cutter!

3.1 Icons, symbols, notes

The following signs and symbols are used at the joint cutter for information of special importance:



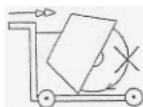
DANGER

Warning of a hazard area!

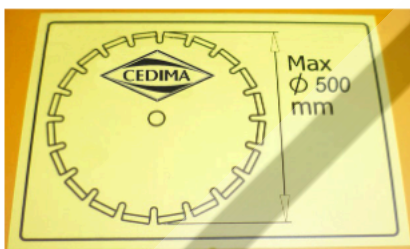


DANGER

Warning of cutting shaft, saw blade!



To move the joint cutter beyond the cutting area, stop the tool!



Maximum mountable saw blade diameter! (500 mm)



Direction of rotation of saw blade / cutting shaft (on the saw blade guard)



Guaranteed sound pressure level



Read the operating manual!



Use eye protection!



Use hearing protection!



Use foot protection!



Use hand protection



Use light breathing protection

The operating manual uses the following terms and symbols for important information:



Notice

special information regarding the economic use. Messages marked with the symbol "Note" contain important information, and are separated from other text.

ATTENTION

is used for particular comments or statements concerning accident prevention (i.e. when something is compulsory or prohibited). The text following the "ATTENTION" symbol provides instructions which must be precisely observed to avoid damage to the machine or material and injuries to the user or a third party.



DANGER

used for crucial statements concerning accident prevention (i. e. when something is compulsory or prohibited) in order to avoid injuries to the user or a third party as well as considerable damage to the machine or material. The text following the "DANGER" symbol warns the reader that the user or a third party is likely to be injured if the instruction given is not observed or if he does not proceed as described.



DANGER

Warning of hot surface!



DANGER

Warning of hot fluids!



DANGER

Warning of pinching or crushing!

Important statements are printed in italics.

Statements concerning safety are printed bold and in italics!

The operating manual uses the following symbols, designations or signs:



Section with the content:
"Cleaning the table saw"



Protect from temperatures
around / under 0 °C!



Clean the component!



Check the component!



Engine oil dipstick,
check filling level!



Spirit level,
align component, machine
horizontally or vertically



Finger pressure test

approx. 5 mm



Drive belt
Tensioning



Releasing



Allen key
size 4 mm



open-ended spanner, size 13 mm



Pull-off device



Plastic hammer



Torque spanner

3.2 Designated use, predictable misuse

- The joint cutter CF•13.3 B resp. CF•13.3 B-L, in the following referred to as machine, is exclusively to be used as walk-behind hand-guided floor cutting machine for cutting by means of diamond saw blades in wet cutting operation of firmly installed components made of asphalt, concrete and abrasive construction material as used e.g. in roadwork, hall floors and runways! Using the machine for purposes other than those mentioned above is considered contrary to its designated use; in particular the use of the machine with cutting tools other than those approved by the manufacturer/distributor is prohibited. The manufacturer/distributor cannot be held liable for any damage resulting from such use. The risk of such misuse lies entirely with the user.
- The machine is not approved for other use than the one specified herein; this constitutes improper use.
- Operating the machine within the limits of its designated use also involves observing the instructions set out in this operating manual and complying with the inspection and maintenance directives.
- The machine has been designed in accordance with state-of-the-art standards and recognized safety rules. Nevertheless, its use may constitute a risk to life and limb of the user or of third parties, or cause damage to the machine or other material property.
- The machine must only be used in technically perfect condition in accordance with its designated use, the instructions set out in the operating manual and the relevant national safety regulations, and only by safety-conscious persons who are fully aware of the risks involved in operating the machine. Any functional disorders, especially those affecting the safety of the machine, must therefore be rectified immediately.

3.3 Organisational measures

- This operating manual must always be at hand at the place of use of the machine and must be accessible to the personnel operating the machine.
- In addition to this operating manual, all other generally applicable legal and other mandatory regulations relevant to accident prevention and environmental protection must be observed. Such obligations may also comprise the handling of hazardous materials, provisioning and/or wearing of personal protective equipment, or road traffic regulations.
- This operating manual must be supplemented by instructions covering the duties involved in supervising and notifying special organizational features, such as job organization, work flows or the personnel entrusted with the work.
- The operator must

- determine the other dangers resulting from the specific conditions at the place of use of the machine in a risk assessment (in the sense of the German Law on Occupational Safety and Health § 5).
- outline all further instructions and safety precautions resulting from the risk assessment of the work places at the system in operating instructions (in the sense of the German Work Equipment Usage Ordinance § 6).
- Personnel entrusted with work on the machine must have read the operating manual, in particular the chapter "Safety instructions" prior to taking up work. This applies especially to persons working only occasionally on the machine, e. g. during set-up or maintenance activities.
- Check -at least from time to time- whether the personnel is carrying out the work in compliance with the operating manual and paying attention to risks and safety-relevant factors.
- For reasons of safety, long hair must be tied back or otherwise secured, garments must be close-fitting and no jewellery -including rings- may be worn! Severe injury may result from being caught by moving parts of the machine.
- Personal protective equipment must be used wherever required by the circumstances or by law (e. g. safety glasses, ear protectors, safety boots, suitable safety clothing). Depending on the operating conditions of the wall saw, other personal protective equipment might be required. Observe the regulations for the prevention of accidents.
- Observe all safety precautions and warnings attached to the machine and always keep them in good and perfectly legible condition.
- In the event of safety-relevant modifications or changes in the behaviour of the machine, stop the machine immediately and report the malfunction to the competent authority/person.
- Do not remove or make inoperative any safety devices the machine is equipped with.
- Never make any modifications, additions or conversions which might affect safety without the manufacturer's/distributor's prior consent. This also applies to the installation and adjustment of safety devices as well as to welding work on supporting structures.
- Damaged or worn parts of the machine must be replaced immediately! Only use original spare parts.
- All spare parts and tools must comply with the technical requirements specified by the manufacturer/distributor. Only use original spare parts.
- Adhere to the legally prescribed preventive maintenance and inspection intervals or those specified in this operating manual.

- All maintenance and repair activities must be performed by trained, authorised personnel using suitable tools and other suitable workshop equipment in suitable environment for the works (sufficient space around the machine).
- Observe the fire alarm and fire fighting measures. The personnel must be made familiar with the location and handling of fire extinguishers.

3.4 Selection and qualification of personnel

- Any work on and with the machine must be executed by reliable personnel only. Statutory minimum age limits must be observed.
- The machine must be operated or serviced by trained or properly instructed personnel only. Clearly define the individual responsibilities of the personnel for operation, set-up, maintenance and repair.
- Make sure that only authorized personnel work on or with the machine.
- Define the machine operator's responsibilities -also with regard to observing road traffic regulations-, providing the operator with the authority to refuse instructions by third parties that are contrary to safety.
- Do not allow persons to be trained or instructed or persons taking part in a general training course to work on or with the machine without being permanently supervised by an experienced person.
- Work on the electrical system and equipment of the machine must be carried out only by a skilled electrician or by properly instructed persons working under the supervision and guidance of a skilled electrician and in accordance with electrical engineering rules and regulations.

3.5 Safety precautions regarding specific operational phases

3.5.1 Normal operation

- Before you start working, make yourself familiar with the surroundings and circumstances of the site. This includes obstacles which might impede work, the soil bearing capacity and the required safety measures, e.g. barriers separating the work site from public traffic and the possibility to render first aid in case of accidents.
- Assemble the machine on an even, hard and stable ground. The stableness is to be ensured. Clear the ground of all things that could impede the work.
- Ensure a safe stand on even, firm, stable ground and make sure to keep the balance any time.
- Never use the machine in a way that might be contrary to safe working practices.

- Machines which are driven by a combustion engine must only be filled with the fuel recommended by the manufacturer. Pay attention to the danger of fire and explosion when filling the tank! Do not spill fuel onto hot machine parts.
- Keep to the conditions given by the manufacturer concerning the connections for power, water and other auxiliaries.
- Make sure that the machine is used only when it is in a safe and reliable condition. Operate the machine only if all protective and safety-related devices (e. g. saw blade, cutting shaft and belt guard, emergency shut-off equipment, sound-proofing elements, etc.) are in place and fully operative.
- Each time before you start working and at least once per shift, check the machine for obvious damage and defects. Any changes (including changes in the performance or behaviour of the machine) must be reported to the competent authority/person immediately. If required, shut down the machine immediately and secure it.
- In the event of malfunctions or changes in the machine's behaviour, stop the machine immediately and secure it against restarting. Have any defects rectified immediately.
- The following must be checked before starting cutting operations:
 - the diamond saw blade for compatibility to the directions given by the manufacturer regarding the drilling method (wet or dry drilling) and the kind of work to be performed,
 - the proper condition of the diamond saw blade (no deformation, damage, ...),
 - the diameter of the diamond saw blade, approved by the manufacturer,
 - the cutting speed (RPM) of the diamond saw blade approved by the manufacturer (max. speed of the machine),
 - the compatibility of direction of rotation of the diamond saw blade and the machine,
 - the compatibility of the diamond saw blade to the tool receptacle (stem hole, flange),
 - that the saw blade clamping tools (spanners) have been removed,
 - that the diamond saw blade is securely attached (fitted according to the manufacturer's specifications, using original connecting parts),
 - free rotation of the saw blade,
- The direction of rotation of the tool as specified by the manufacturer must be adhered to in order to avoid the loosening of the tool.

3.5.2 Commissioning

- During start-up and shut-down procedures always watch the indicators in accordance with the operating manual.
- Before you start up the machine or set it to motion, make sure that the starting or running machine does not create any hazard to other persons' health.
- Start the machine exclusively from the engine control location (CF•13.3 B/CF•13.3 B-L, rear right at the machine).
- Operate the machine exclusively from the control location (CF•13.3 B/CF•13.3 B-L, behind the machine).
- The driver/ operator position is only to be filled by the user. Keep third parties away from the machine.
- It must be ensured that the operator has constantly sufficient view on the work area and that he can intervene at any time in the working process.
- Water hoses must be laid in such a way that damage by crossing or by the tool cannot occur.
- The cutting operation must be performed using the wet cutting method in order to prevent the formation of hazardous clouds of fine dust and to increase the service life of the cutting tool.
- When using the wet-cutting method, always make sure that there is enough water at the proper places. Make sure there is enough cooling water at the cutting groove.
- When working is the dry-cutting method, make sure there is enough suction to remove the dust.
- If harmful or explosive substances can emerge during the work, e.g. dust, slurry, the national health- and safety rules apply.
- Moving the machine outside the workplace is only allowed without saw blade.
- When operating the machine on public roads, ways and places always observe the traffic regulations in force and, if necessary, make sure beforehand that the machine complies with the relevant road vehicle regulations.
- Always control the accident-proof accommodation of the accessories before the transport of the machine.
- Avoid any operation that might affect the stability of the machine. Always keep a sufficient distance from the edges of excavations, ditches and slopes.
- Never travel across slopes exceeding 5%.
- Always use safety ropes when operating the machine on sloping terrain exceeding 15%.
- Before leaving the machine always secure it against inadvertent movement (rolling off) and accidental restart (unauthorized use).

3.5.3 Special work related to the maintenance and repair of the machine and troubleshooting, disposal

- Observe the adjustment, maintenance and inspection activities and intervals set out in the operating manuals, including information on the replacement of parts or assemblies.
- Brief the operating personnel before initiating special repair or maintenance activities. Appoint a person to supervise such activities.
- In any work concerning the operation, adaptation to production requirements, conversion or adjustment of the machine and its safety-oriented devices or any work related to inspection, maintenance and repair, always observe the start-up and shut-down procedures described in the operating manual as well as the instructions on maintenance activities.
- If necessary, secure a large area around the location where maintenance of the machine is to be performed.
- Maintenance and repair work may be carried out only if the machine is placed on level and solid ground and secured against inadvertent movement.
- If the machine is completely shut down for maintenance or repair work, it must be secured against inadvertent restarting:
 - remove the key and/or disconnect the power supply,
 - attach a warning sign at the main switch.
- When using a lifting gear for replacing individual parts or large assemblies make sure that the parts/assemblies are carefully attached to the lifting gear and secured in place to avoid hazardous conditions. Use only suitable and technically perfect lifting gear and suspension systems with adequate lifting capacity. Never work or stand under suspended loads.
- The fastening of loads and the instructing of crane/ industrial truck operators should be entrusted to experienced persons only. The instructor must be within sight or sound of the operator.
- Before performing any maintenance/repair activities clean the machine, especially the connectors and screwed joints, and remove any oil, dirt and preservative agents. Never use aggressive detergents. Use lint-free cleaning rags.
- Before cleaning the machine with water or other cleaning agents cover or tape up all openings which -for safety and functional reasons- must be protected against the ingress of water/steam/cleaning agents. Special care must be taken with bearings, electric motors and electronic systems. Pay attention to the protection classes. After cleaning, remove the covers/tapes completely.

- After cleaning, check all cable connection for leaks, loose connections, chafe marks and damage. Have any defects found rectified immediately.
- Always retighten any screwed connections that have been loosened during maintenance/repair activities.
- Any safety devices removed for set-up, maintenance or repair purposes must be refitted and checked immediately upon completion of the set-up, maintenance or repair work.
- Ensure that all process materials and replaced parts are disposed of safely and with minimum environmental impact.

3.6 Information about special risks related to electric energy

- Electric connections are only permitted in CE-approved mains networks with appropriate fusing and fault current safety switch.
- Observe the relevant VDE regulations or national standards.
- Electrical connections must always be kept free from dirt and moisture.
- Use only original fuses with the specified rating! Switch off the machine immediately if trouble occurs in the electric power supply.
- Avoid physical contact with earthed parts e.g. pipelines (danger by electric shock).
- When a live high-voltage line has been touched or cut:
 - Do not touch the machine, but do not leave it alone,
 - Drive the machine (saw blade) out of the hazardous location if that is possible without danger for the user,
 - Warn others not to come near or touch the machine,
 - Have someone switch off the electric power supply to the line,
 - Leave the machine only when you can be sure that the touched or cut power line has been switched off.
- When operating the machine always keep a safe distance from electric lines. If work is to be carried out in the vicinity of electric lines, make sure that the working equipment is always kept well away from such lines.
DANGER FOR YOUR LIFE!
- Make yourself familiar with the prescribed safety distances.
- Work on the electrical system or equipment may only be carried out by a qualified electrician or by properly instructed personnel working under the supervision of a qualified electrician and in accordance with the applicable electrical engineering rules.

- If provided for in the relevant regulations, the power supply to machine parts, on which inspection, maintenance or repair work is to be carried out, must be cut off. First check that the disconnected parts are no longer live, the ground and bridge them and make sure that any live parts which are near them are insulated.
- The electrical equipment of the machine must be inspected and checked at regular intervals. Any defects such as loose connections, scorched cables or defective plugs must be rectified immediately.
- If it is necessary to carry out work on live parts, a second person must be present to cut off the power supply in case of emergency by actuating an emergency shut-off or main power switch. Secure the working area with a red-and-white safety chain and a warning sign. Use voltage-insulated tools only.
- When work has to be carried out on high-voltage components, switch off the power supply, disconnect the concerned parts from the power supply, connect the supply cable to earth and short-circuit the components - e.g. capacitors - with a grounding rod.
- If mobile electrical equipment, connecting cables and/or extension/appliance cords with plug connectors are used, ensure that such equipment, cables and cords are checked for correct function at least once every six months by a qualified electrician or -if suitable testing equipment is available- by a properly instructed person.
- Protective installations with fault-current protection units used in non-stationary equipment must be checked for correct operation at least once a month by a properly instructed person.
- Fault-current and fault-voltage protection units must be checked for correct operation by actuating the testing facility:
 - once on every working day in the case of mobile equipment,
 - at least once every six months in the case of stationary equipment.

3.7 Gas, dust, steam, smoke

- When working is the dry-cutting method, make sure there is enough suction to remove the dust (consult CEDIMA®).
- If harmful or explosive substances can emerge during the work, e.g. dust, slurry, the national health- and safety rules apply.
- Do not perform any welding, flame-cutting and grinding work on the machine unless such work is expressly permitted, as there may be a risk of fire or explosion (consult CEDIMA®).

- Before carrying out welding, flame-cutting or grinding operations, clean the machine and its surroundings from dust and flammable material and make sure that the premises are sufficiently ventilated (risk of fire or explosion).
- When working in small or narrow rooms, observe the relevant national safety regulations (if any).
- Internal combustion engines must be operated in sufficiently ventilated rooms! Never leave the engine running in enclosed or confined spaces. Exhaust gases contain carbon monoxide.
- All pipes, hoses and screwed joints must be checked for leaks and visible damage at regular intervals. Clear any defect immediately or have the defect rectified immediately.

3.8 Noise

- Make sure that all sound-proofing equipment is in place while operating the machine.
- Use the prescribed ear protectors.

3.9 Lighting

- The machine is designed for use in daylight environments! When working in unlighted areas the driver/operator must ensure a sufficient illumination of the site.

3.10 Information about the handling of fluids, lubricants and other chemical substances

- When handling pressure fluids, lubricants, greases or conservation agents (hereinafter referred to as fluids or lubricants), observe the product-related safety regulations.
- Avoid any prolonged contact between fluids or lubricants and your skin! Carefully clean your skin to remove all fluids or lubricants adhering to it!
- Be careful when handling hot fluids or lubricants; risk of serious injuries or burns! Especially when handling fluids or lubricants with temperatures exceeding 60 °C make sure to avoid any contact between the fluid and your skin.
- If fluids or lubricants have come into contact with your eyes, rinse your eyes immediately and thoroughly with clean drinking water and consult a doctor! Then consult a physician.
- Spilled fluids or lubricants must be removed immediately using binding agents! Use binding agents.
- Fluids or lubricants must not penetrate into the soil or public sewage system.

- Used fluids or lubricants must be collected, stored and disposed of properly.
- Follow all relevant legal instructions and provisions regarding the handling and disposal of fluids or lubricants! In case of doubt, contact the competent authorities for detailed information.

3.11 Transporting the machine

- Observe the relevant regulations, directives and standards.
- Use hoisting tools and floor-level conveyors with loads > 25 kg.
- Use only suitable means of transport and lifting gear of sufficient capacity when loading or transporting the machine.
- Appoint an experienced instructor for the lifting operation.
- When transporting above head height, wear appropriate protective equipment (helmet, ...).
- Always observe the instructions given in the operating manual when lifting the machine (use only the prescribed lifting eyes for attaching the lifting gear).
- Use only suitable transport vehicles with sufficient load capacity.
- The diamond saw blade must be dismounted for transport.
- Before moving or transporting the machine, always check that the accessories are stored properly and install any transport locks.
- Always store or transport the standing machine horizontally, otherwise fuel and oil can run out.
- Secure the load carefully! Use suitable attachment points.
- Before loading the machine or parts of it, secure the machine/parts against inadvertent movement! Attach a suitable warning sign. Before using the machine again, make sure that such protection material or devices are properly removed.
- Parts which had to be removed for transporting the machine must be refitted and secured carefully before the machine is used again.
- Even when the transport of the machine only involves a minor relocation, disconnect it from all external power supply lines! Before using the machine again, connect it properly.
- The recommissioning procedure must be strictly in accordance with the operating manual! Observe the instructions given in the operating manual when reassembling and operating the machine.

4.0 Preparation and operation



DANGER

Risk of injury!

Perform set-up works only with the joint cutter (saw blade) at a standstill!

Make sure that the joint cutter will not start unintentionally or might roll away!

4.1 Engine oil level check



Read the operating manual for the engine!



The Oil Alert System automatically stops the engine before the oil level drops below the safe minimum level. However, to avoid the inconvenience of a sudden shutdown, you should check the engine oil level before each start.



Aligning frame with engine horizontally

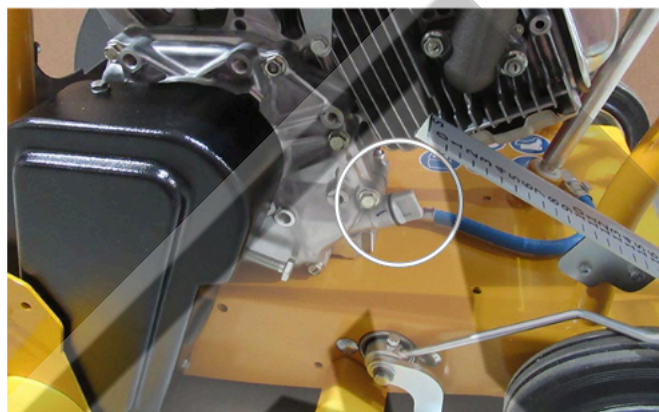
Figure 4.1



DANGER

Risk of burns! Some engine parts will be very hot in operation and cool down slowly after stopping the engine!

With the rear engine oil dipstick, it is more likely to come into contact with hot engine parts, therefore use the front engine oil dipstick whenever possible!



Left, rear engine dipstick, filler lid

Figure 4.2

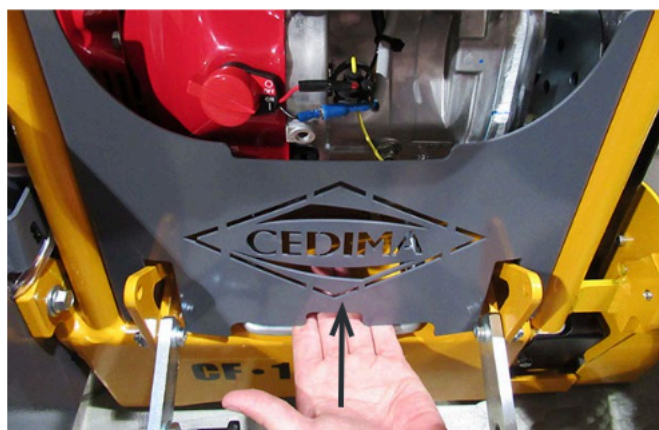


Loosening the holding screws at the front plate

Figure 4.3



For better front plate handling pull out the front transport handle (section 7.1)!



Lifting the front plate out of the detent

Figure 4.4



Front engine oil dipstick, filler lid
(front plate dismantled)

Figure 4.5



CF•13.3 B-L - water container removed, position of the fuel filler cap

Figure 4.6b

4.2 Filling up fuel / refuelling



Read the operating manual for the engine!

1. Remove the water container from the joint cutter (section 4.9.2 and figures 4.6a and 4.6b)!

2. Fill up the tank with the appropriate fuel according to the operating manual of the engine!

3. Put the water container back onto the joint cutter (section 4.9.2)!



CF•13.3 B - Water container removed and fuel filler lid open

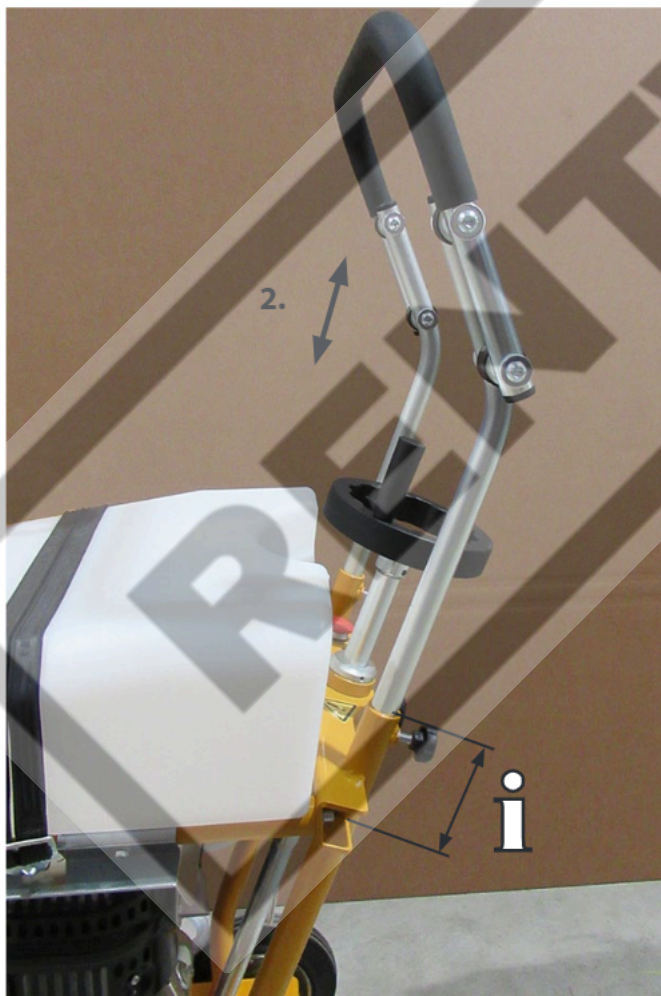
Figure 4.6a

4.3 Adjusting the push handle



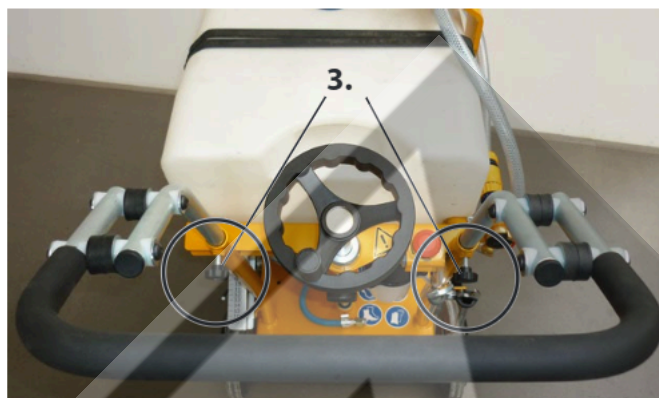
Push handle mounted in position 1

Figure 4.7



Observe the minimum insertion length of the push handle

Figure 4.8



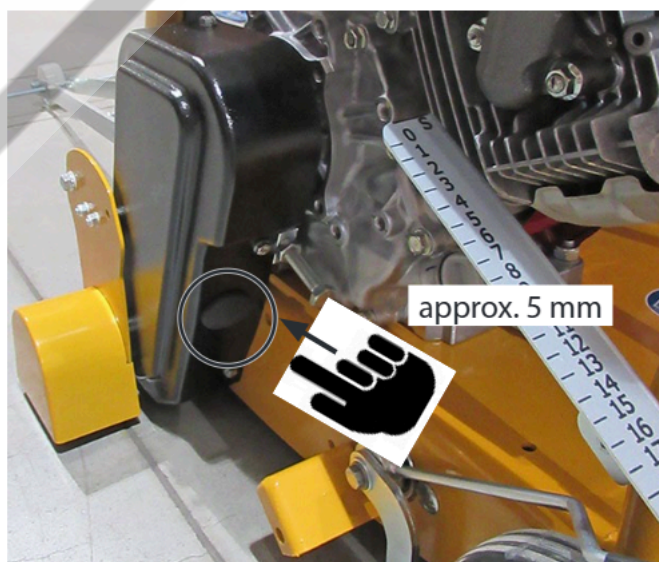
Push handle mounted in position 2

Figure 4.9

4.4 Checking the V-ribbed belt tension

 For the optimum check of the V-ribbed belt tension use the measurement device recommended by the V-ribbed belt manufacturer (tension to 70 Hz)!

If necessary, dismount the saw blade guard and the saw blade mounted on the left (section 4.6.4)!



Remove plug from V-ribbed belt guard cover, V-ribbed belt check through control opening

Figure 4.10

4.5 Adjusting the parking brake



The parking brake must be adjusted in such a way that the joint cutter brakes automatically as soon as the saw blade with the cutting shaft has been lifted out completely! For checking purposes, mount a diamond saw blade (see section 4.6)!



Cutting shaft, saw blade lifted, CF•13.3 B/CF•13.3 B-L braked with parking brake
Figure 4.11



17

CF•13.3 B/CF•13.3 B-L braked with parking brake

Figure 4.12

4.6 Mounting the diamond saw blades

4.6.1 General information



DANGER

Risk of injury due to incorrect and/or incorrectly mounted saw blade!

ATTENTION

Exclusively use diamond saw blades!

The joint cutter is exclusively designed for use with diamond saw blades! Other saw blades (e.g. carbide-tipped saw blades) must not be used!

ATTENTION

Use original (spare) parts!

To attach the saw blade, only use the provided CEDIMA® components (saw blade flanges, cutting shaft nut, ...)!



DANGER

Risk of injury! It is not allowed to operate the joint cutter without saw blade guard and cutting shaft guard!

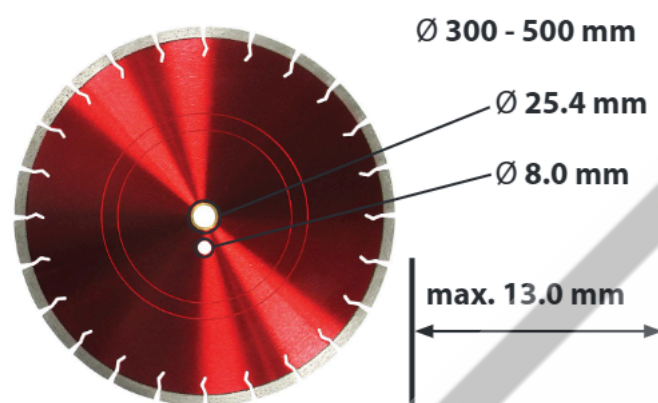
4.6.2 Choosing the right saw blade

ATTENTION

Select a diamond saw blade with segments matching the joint cutter power!

We recommend the ideally matched **CEDIMA®** diamond saw blades with the corresponding dimensions!

ATTENTION



Diamond saw blade for CF·13.3 B / CF·13.3 B-L

Figure 4.13

i When mounting more than 2 saw blades, mount matching spacer disks between the saw blades, depending on the type of diamond saw blade! The cutting shaft nut must have sufficient thread turns (on the cutting shaft) for clamping!

If the support diameter of the saw blade to be mounted is larger, use matching reducer ring(s)! The respective reducer ring must not be wide than the saw blade (core)! Too wide reducer rings prevent the required contact (pressure) of the saw blade flanges to the saw blade!

Select the correct diamond saw blade type according to the material to be cut (section 2.4)!

Ask **CEDIMA®** about the correct saw blade type and the reducer ring.

i No warranty in case of improper use!

CEDIMA® will refuse any warranty in case of improper use of the saw blades!

Complaints on saw blades can only be accepted if there is a remaining diamond segments' height of 20 %!

4.6.3 Mounting /dismounting the diamond saw blade



DANGER

Wear suitable personal protective equipment when handling diamond saw blades!



DANGER

Risk of injury! Do not use the saw blade if the saw blade is damaged, diamond segments are missing or it runs out of true!

ATTENTION

Check diamond saw blades, saw blade flanges, cutting shaft for direction of rotation, running untrue and damage!

If the saw blade flange is damaged, the saw blades or the cutting shaft are damaged, bent or out of true (mounting holes), the core tension of the saw blade is insufficient (wobbling), or segments are missing, these must not be fitted and used!



Lifting out the cutting shaft

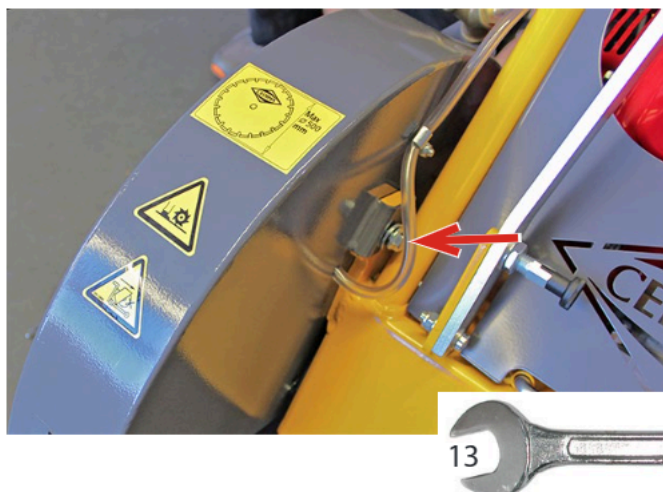
Figure 4.14



DANGER

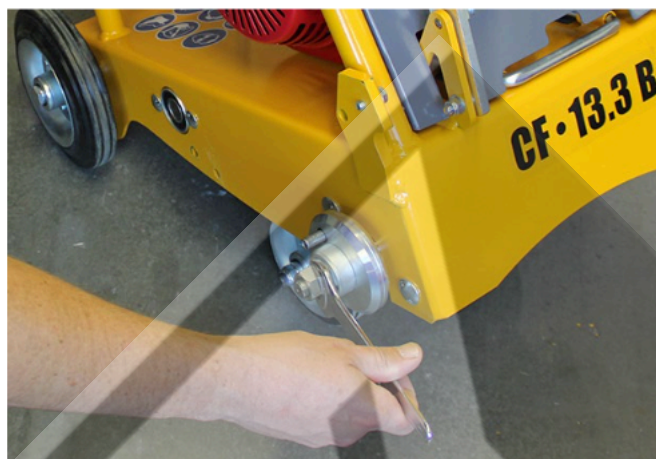
Risk of pinching or crushing when opening the saw blade guard hood!

Careful with hands and fingers!



Remove the inner clamping screw of the saw blade guard

Figure 4.15



Loosening left-hand thread cutting shaft nut at the right side of the cutting shaft

Figure 4.18

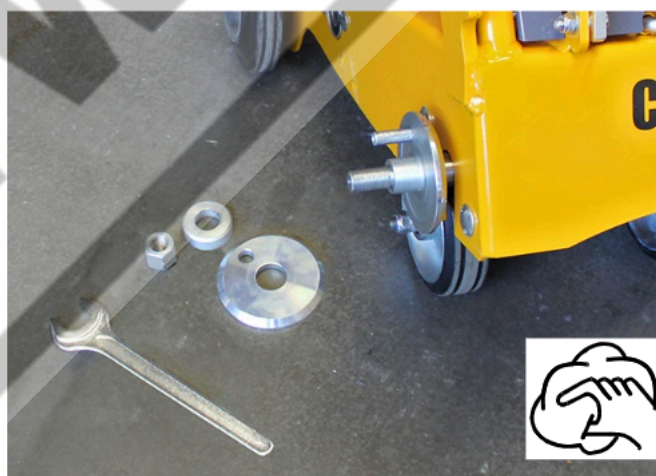


Remove the rear fixing screw

Figure 4.16



Left-hand thread on the right side of the cutting shaft!



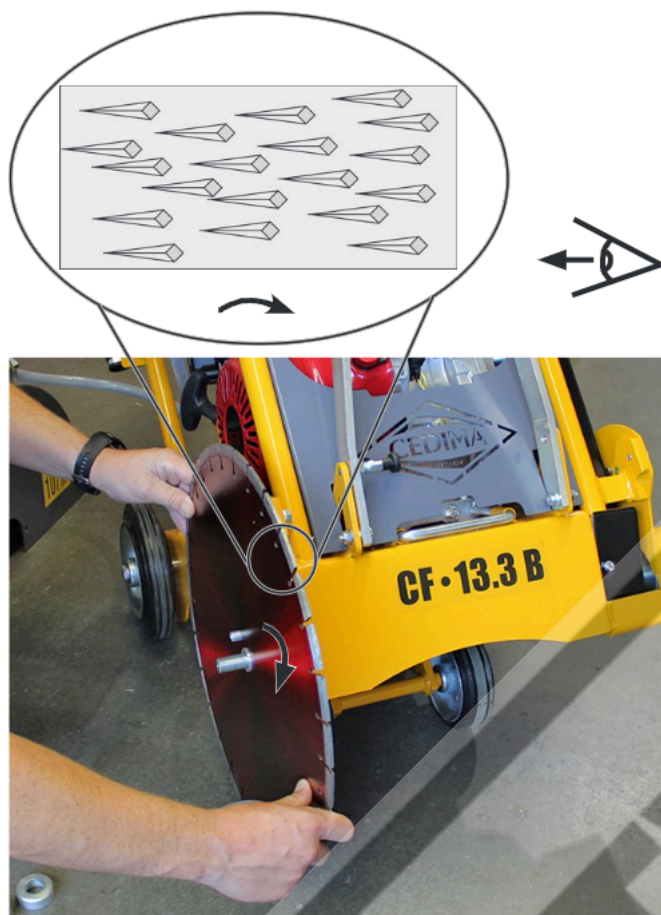
Cutting shaft nut, clamping ring, saw blade pressure flange dismounted

Figure 4.19



Lift up and remove the blade guard

Figure 4.17



Diamond saw blade with correct direction of rotation on the right side of the cutting shaft, driver pin plugged in

Figure 4.20

ATTENTION

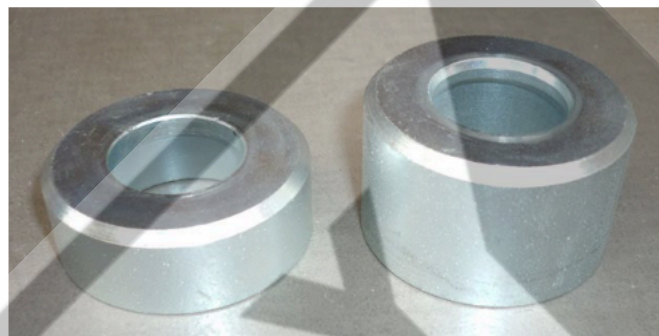
The direction of rotation of the cutting shaft must match the direction of rotation of the saw blade!



Remount the saw blade pressure flange and clamping ring

Figure 4.21

 Mount the right or left clamping ring according to the saw blade mounting width (figure 4.22, section 4.6.4)!



Cutting shaft clamping rings

Figure 4.22



Diamond saw blade with left-hand thread cutting shaft nut on the right side of the cutting shaft

Figure 4.23



Put on the blade guard

Figure 4.24



Remount and tighten the rear fixing screw

Figure 4.25



Figure 4.26

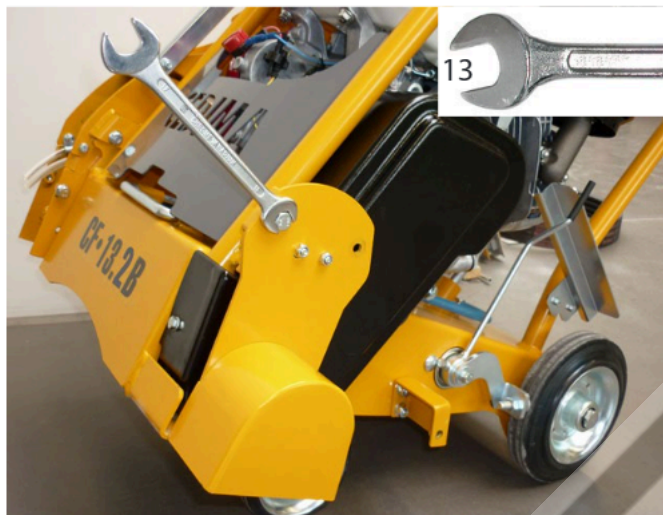


Resharpener blunt diamond saw blades!

Diamond saw blades are designed to sharpen themselves during operation (while cutting). However, if cutting often into strong steel reinforcements or hard material with low abrasion, they can become blunt. They can be resharpened by cutting into abrasive material such as limestone or asphalt!

Do not subject the diamond segments of the saw blade to hard impacts as this can destroy them!

4.6.4 Changing the cutting side as here described with separated blade guard



Dismount cutting shaft guard (left)

Figure 4.27



Loosening the right-hand thread cutting shaft nut

Figure 4.29

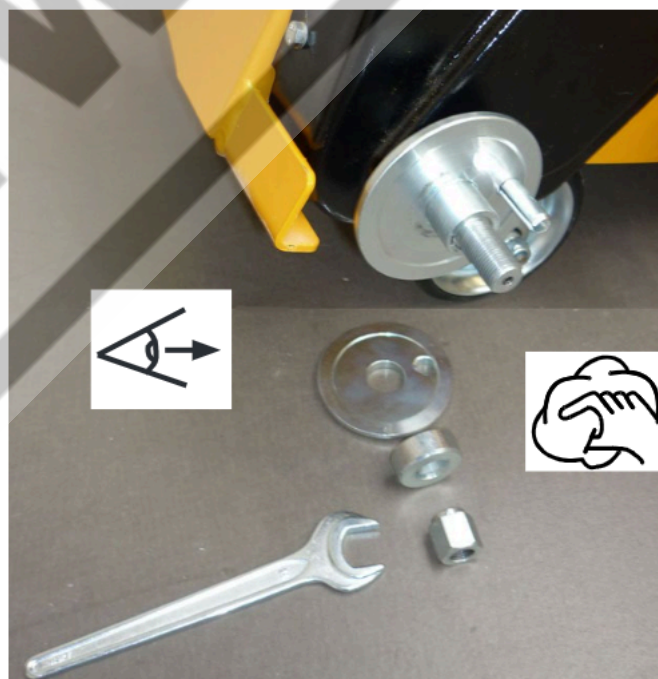


Right-hand thread on the left side of the cutting shaft!



Cutting shaft guard, dismounted

Figure 4.28

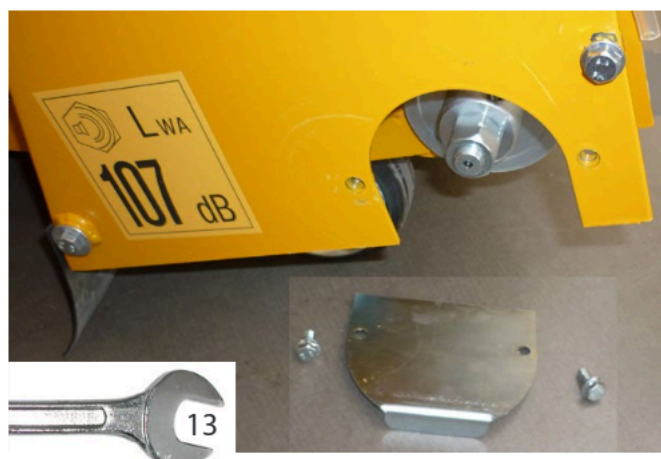


Cutting shaft nut, clamping ring, saw blade pressure flange dismounted

Figure 4.30



Dismount any mounted saw blade (section 4.6.3)!



Dismount protective plate from saw blade guard

Figure 4.31



Loosening screw at the saw blade guard holder

Figure 4.34



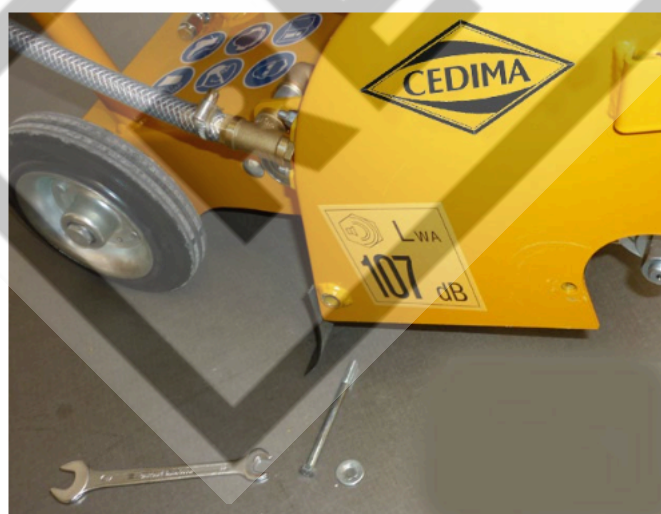
Remove screw with washer from saw blade guard

Figure 4.32



Uncoupling cooling water connection from the saw blade guard (see section 4.9)

Figure 4.35



Screw with washer removed from saw blade guard

Figure 4.33



Lifting saw blade guard with water connection and front visor from the saw blade guard holder

Figure 4.36



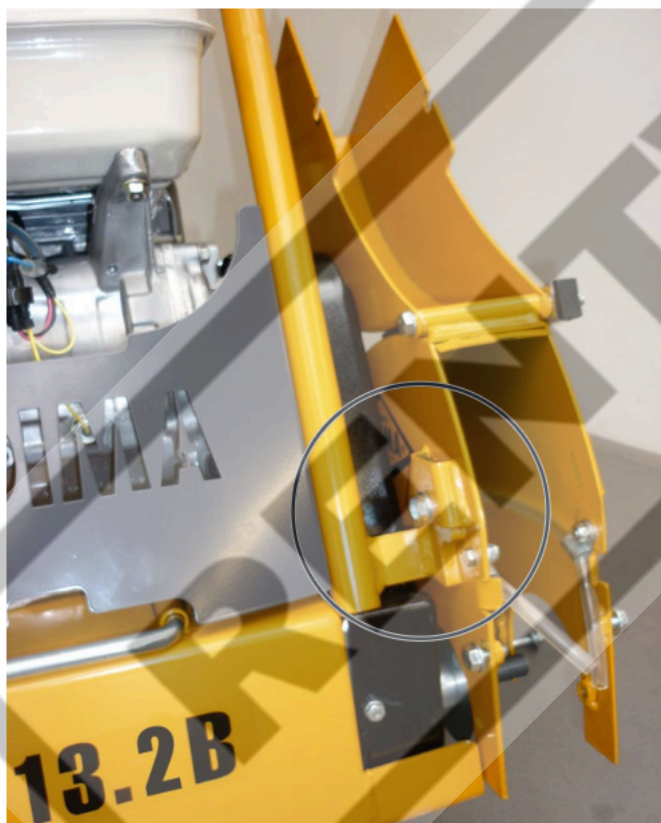
Left side of cutting shaft, saw blade guard holder

Figure 4.37



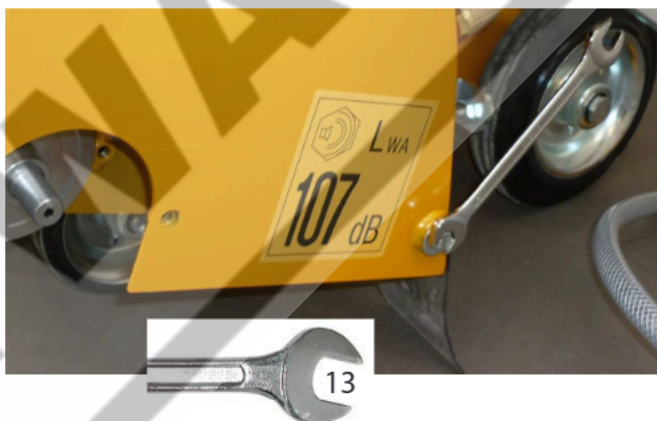
Screw with washer provided for saw blade guard mounting

Figure 4.39



Left side of cutting shaft, saw blade guard plugged to saw blade guard holder

Figure 4.38



Fastening saw blade guard with screw (washer)

Figure 4.40



Tightening screw at the saw blade guard holder

Figure 4.41

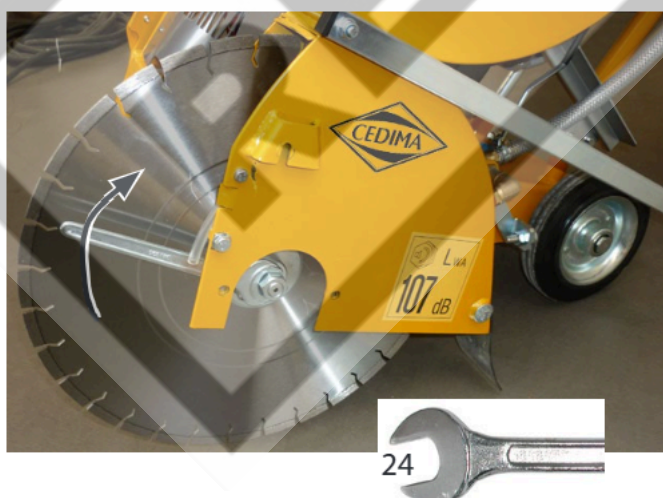


Coupling cooling water connection to the saw blade guard (see section 4.9)
Figure 4.42

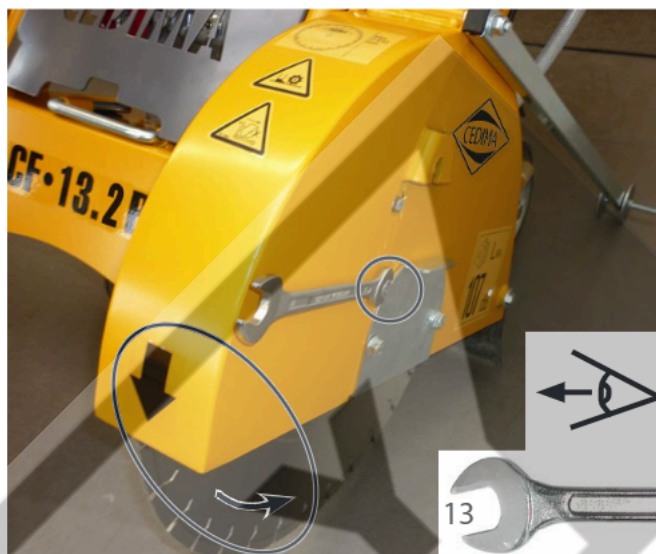
 Mount the saw blade(s) according to section 4.6.3 and figures 4.43 to 4.45!



Diamond saw blade with correct direction of rotation on the left side of the cutting shaft, driver pin plugged in
Figure 4.43

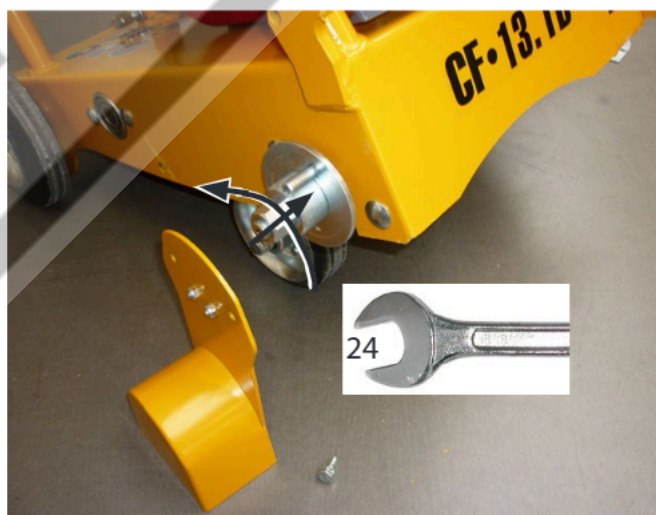


Clamping diamond saw blade with right-hand thread cutting shaft nut on the left side of the cutting shaft
Figure 4.44

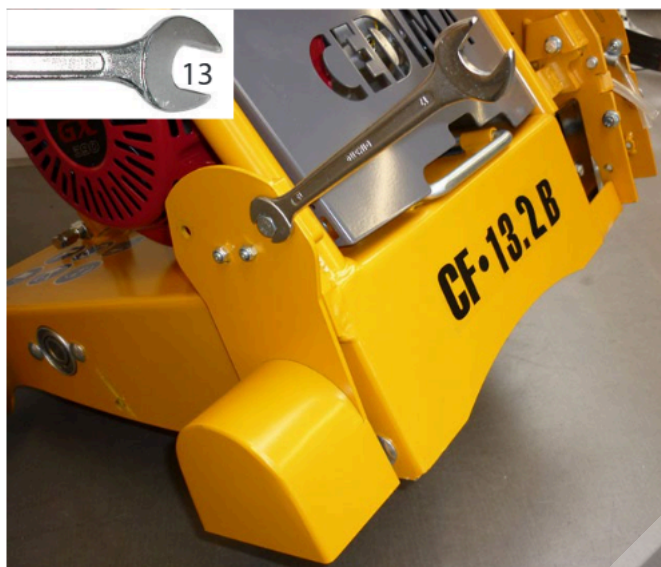


Saw blade guard hood and protective plate at saw blade guard closed, direction of rotation and cutting
Figure 4.45

 Protect the unused side of the cutting shaft with the free clamping ring (figure 4.46)!



Clamping ring with left-hand thread cutting shaft nut mounted on the right side of the cutting shaft, cutting shaft guard provided for mounting
Figure 4.46



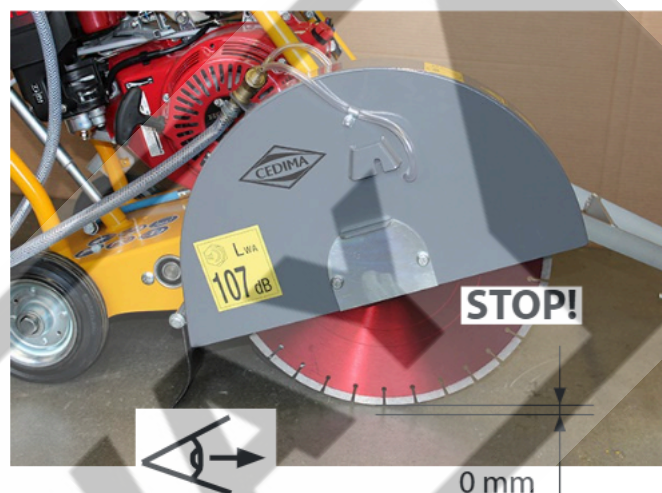
Cutting shaft guard right, mounted

Figure 4.47

4.7 Adjusting the cutting depth indication

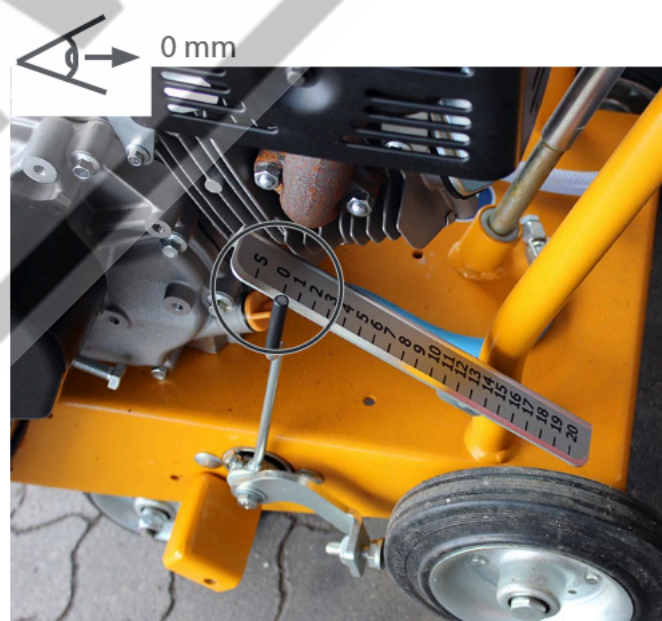


The cutting depth indication can be adjusted exactly to the diameter of the diamond saw blade!



Scratching with the diamond saw blade

Figure 4.48



Setting the pointer of the cutting depth indication to 0, tightening clamping screw and lock nut

Figure 4.49

4.8 Adjusting the front visor



DANGER

Risk of pinching or crushing when swivelling the front visor!

Careful with hands and fingers!

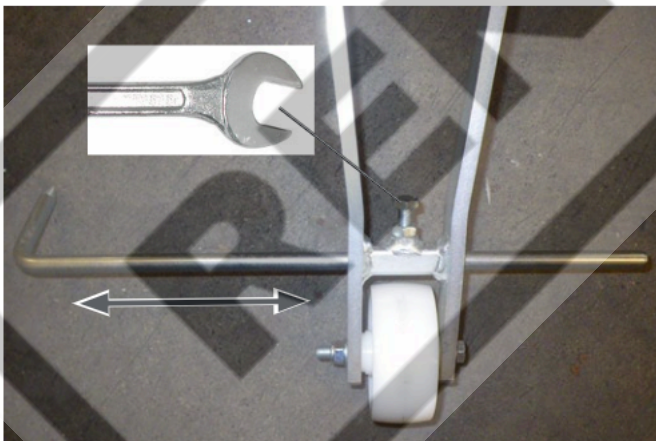


Swivelling down the front visor

Figure 4.50

Align the front visor for right and left cut

Swivel down the front visor and align to the diamond saw blade by using an alignment line or guide rail so that it coincides directly with the cutting line. Therefore dislocate the pointer rod accordingly as required.



Loose the screw and dislocate the pointer rod accordingly

Figure 4.51

4.9 Cooling and flushing water supply



DANGER

Risk of pinching or crushing when coupling the connecting hose and when actuating the water container shut-off valve!

Careful with hands and fingers!

ATTENTION

Guide the water hoses in such a way that the hoses do not constitute a danger and cannot be damaged!

For cutting, use water that is free of coarse impurities (free of solids, clean) to prevent blockage of the cooling system! Do not use salt water!

4.9.1 External water connection

Leave the filled water container mounted, see section 4.9.2!



Connection for external pressurized water hose

Figure 4.52



Connecting hose with Gardena coupling connected to the pressurised water shut-off valve, hose guide for left-hand cut here demonstrated on the CF•13.2 B

Figure 4.53



Connection for external pressurised water hose, hose guide for right cut
Figure 4.54

4.9.2 Water container connection

 The weight of the filled water container(s) facilitates dipping the saw blade into the cut and to a large extent prevents the joint cutter (saw blade) to lift out of the cut. Damaging vibrations for man and machine are reduced which increases the smooth running of the joint cutter and makes the cut more even and cleaner!



DANGER

Risk of injury when tensioning the water container rubber strap!

Check the rubber strap (hook) for correct seat at/in the joint cutter frame (figure 4.57)!



The water container can be filled approx. 16 litres (dismounted, lying) to 23 litres (on the joint cutter), depending on the position!



Water container dismounted

Figure 4.55



DANGER

Risk of burns! Some engine parts will be very hot in operation and cool down slowly after stopping the engine!

Let the heat baffle plate cool down (figures 4.57 and 4.58)!



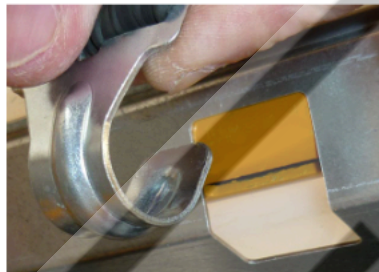
Water container mounted

Figure 4.56



Securing the water container with rubber strap to the left of the joint cutter frame

Figure 4.58



Securing the water container with rubber strap to the right of the joint cutter frame

Figure 4.57



Connecting hose with Gardena coupling for connection to the water container control/shut-off valve

Figure 4.59

4.10 Starting, stopping the joint cutter engine



ATTENTION

Start/stop and operate the joint cutter engine according to the corresponding operating manual of the engine!

ATTENTION

Do not tilt the joint cutter engine excessively!

If the engine is too tilted, fuel can leak out and engine oil can flow into sections where it is harmful to the engine!

4.10.1 Starting the engine



DANGER

When starting the engine, the cutting shaft with any mounted saw blade will start rotating immediately!

Make sure that the starting cutting shaft (saw blade) cannot constitute a danger!

Keep the danger area clear, especially before and behind the cutting direction (saw blade)!

ATTENTION

Once mounted, the diamond saw blade must be able to rotate freely!

Lift the saw blade off the surface (to be cut) and/or out of the cut and tighten the cutting depth locking mechanism!



DANGER

Risk of poisoning! Never start or run the joint cutter engine in closed or poorly ventilated rooms!



ATTENTION

Do not overturn the joint cutter when starting it!

Put one foot onto the right rear wheel so that you can pull the starter handle with the starter wire diagonally upwards without tilting the joint cutter!



The filled water container and increases the stability when starting the engine!

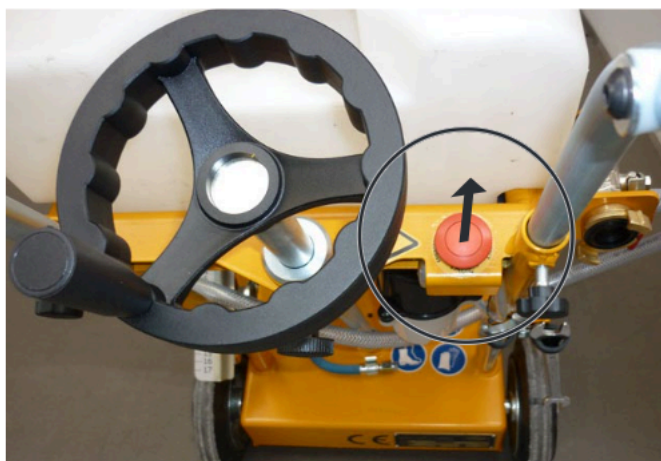
Carry out the following steps to start the engine:

1. Lift out the cutting shaft resp. the saw blade (figure 4.60).
2. Unlock the emergency stop button (figure 4.61).
1. Open the fuel tap.
2. Choke lever
 - for starting the engine in cold condition - set to CLOSED (to the left)
 - for starting the engine in warm condition set to OPEN (to the right)
3. Move the throttle lever about 1/3 of the way from the MIN position to the MAX position.
4. Set the engine switch to ON (figure 4.62).
5. Pull the start handle slightly until resistance is felt, then pull the handle firmly in the direction of the arrow. Gently return the start handle, do not allow it to hit back against the engine to avoid damaging the starter.
6. If the choke lever has been set to CLOSED to start the engine, gradually return it to OPEN while the engine warms up.
7. Adjust the throttle lever to the desired engine speed.

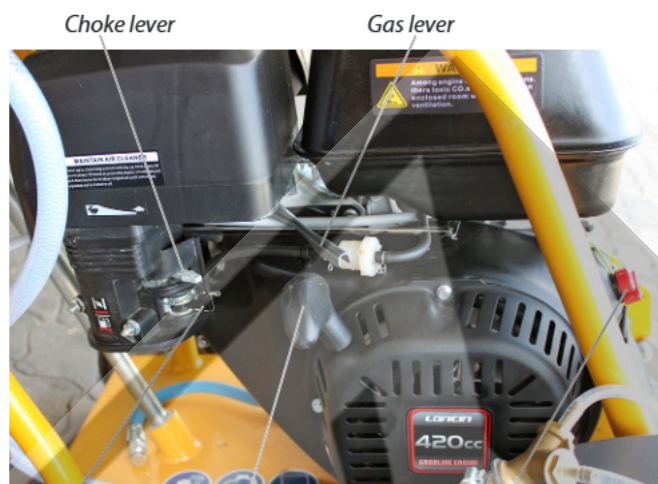


Cutting shaft, saw blade lifted, braked with parking brake

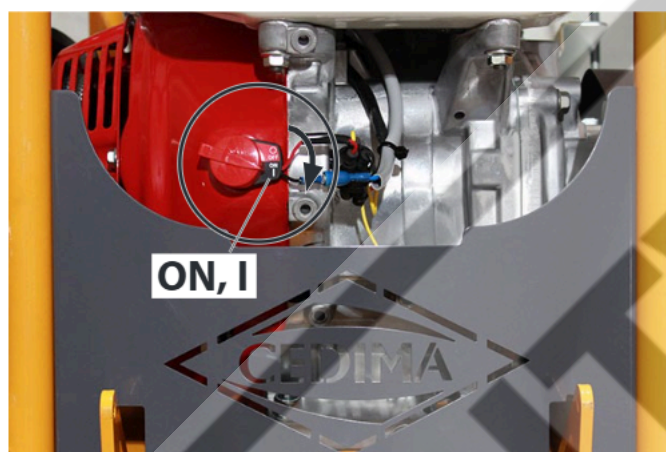
Figure 4.60



Unlocking the emergency stop button (press the actuated button again so that the button jumps out) Figure 4.61



Fuel tap Starter handle Engine (ignition) switch
CF•13.3 B-L right, same engine operating elements Figure 4.63b



Front, switching the engine (ignition) switch to ON Figure 4.62

4.10.2 Engine stop / emergency stop



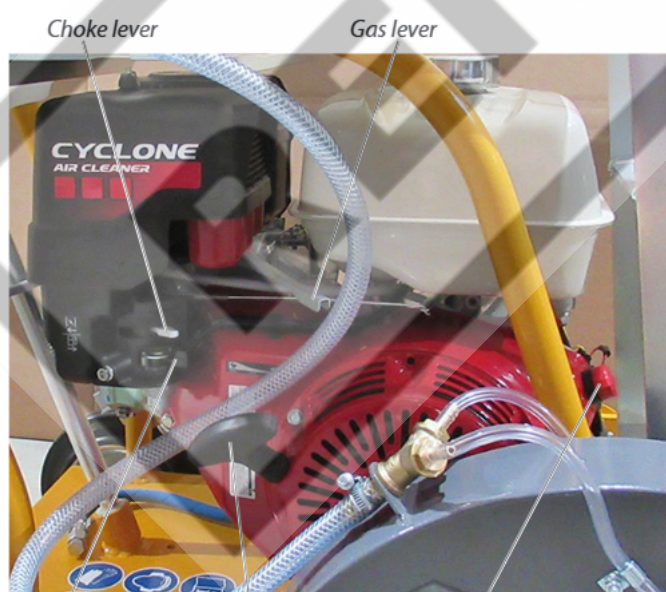
DANGER

Risk of burns! Some engine parts will be very hot in operation and cool down slowly after stopping the engine!

ATTENTION

Once mounted, the diamond saw blade must be able to rotate freely!

Lift the saw blade off the surface (to be cut) and/or out of the cut!



Fuel tap Starter handle Engine (ignition) switch
CF•13.3 B right, engine operating elements Figure 4.63a



Cutting shaft, saw blade lifted, CF•13.3 B braked with parking brake Figure 4.64

 To stop the motor in an emergency, press the emergency stop button and turn the engine switch off.

To stop the engine in normal circumstances, proceed as described below:

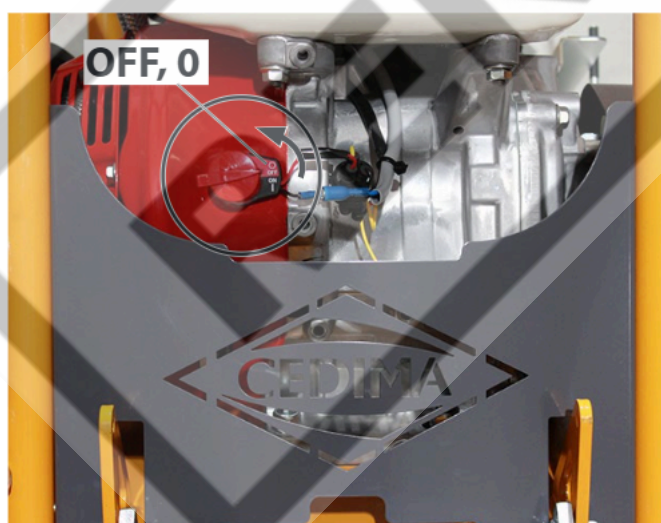
1. Set the throttle lever to MIN.
2. Switch OFF the engine switch (figure 4.66).
3. Turn the fuel tap OFF.



Pressing the emergency switch button

Figure 4.65

 The emergency stop button is released by pressing it again, the red mushroom head jumps out of the lock!



CF-13.3 B front, switching the engine (ignition) switch to OFF

Figure 4.66

5.0 Cutting with the CEDIMA® joint cutter CF•13.3 B / CF•13.3 B-L

5.1 Requirements for cutting, user location



DANGER

Danger of injury due to rotating diamond saw blade!

The rotating saw blade can result in serious injury if not handled carefully!

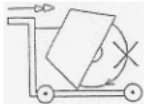
Only ever operate the joint cutter with completely mounted saw blade and cutting shaft guard!

No person must be in the area behind the joint cutter (saw blade) and in the area where diamond segments might be ejected!

During operation, make sure that all third persons keep a sufficient safe distance (approx. 10 m)!

If the safety clearance is not possible due to constructive restrictions, the immediate danger area must be cordoned off (e.g. with warning tape) and/or warning signs are to be provided! Pay attention to objects and building parts to be protected (remove or cover them).

ATTENTION



The joint cutter must be brought directly to the work area while the saw blade is at a standstill!



Ear defenders must be worn during cutting as specified by the accident prevention regulations!



Suitable eye protection (protective goggles) is strongly recommended!



Suitable safety shoes are recommended!

Wear suitable splash guard clothing!

ATTENTION

Depending on the operating conditions, other personal protective equipment might be required!



The operator is standing behind the push handle of the CF•13.3 B / CF•13.3 B-L (see section 4.3)!

5.2 Cutting operation



DANGER

The cutting operation must be done as wet cuts!

As required, the cutting operation must be performed using the wet cutting method in order to prevent the formation of hazardous clouds of fine dust!



DANGER

Risk of injury due to insufficient coolant (lack of water) and/or supply temperature too high and thus resulting saw blade destruction!

Immediately stop the cutting work and the joint cutter if the water cooling fails!

ATTENTION

Diamond tools (saw blades) designed for wet cutting mode must never be operated without water! The tool's life time will considerably be reduced and loss of segments is inevitable!

In case of dust or slurry formation at the saw blade, increase the amount of water!

1. Perform visual checks of all joint cutter components,
2. Check the personal protective equipment,
3. Select the diamond saw blade that matches the material to be cut from the CEDIMA® range and mount it,
4. Check the cordoning off of the operation area,
5. Provide suitable fuel and water supply,
6. Provide secure stand on even, firm, stable ground for user and joint cutter,
7. Align the joint cutter to the cutting line,
8. Adjust the cutting depth indication,
9. Lift the diamond saw blade from the ground,
10. Start the engine,
11. Bring the engine and the diamond saw blade to full speed,
12. Open the water shutoff valve (pressurised water or water container) and thus control the required water amount,
13. Slowly lower the diamond saw blade to the desired cutting depth (see cutting depth indication). Hold tight the joint cutter,

 Do not lower the blade guard by force to avoid damage to the saw blade and the joint cutter!

A precise pre-cut of moderate depth facilitates the subsequent cuts and leads to a clean cutting line.

ATTENTION

Secure the cutting depth adjustment!

Tighten the cutting depth locking mechanism!

14. The cutting feed is done by pushing the joint cutter.
Start pushing the joint cutter slowly and continue to push it evenly,

 Adjust the feed speed to the engine power so that the engine speed is slightly reduced!

15. Follow the cutting line (front visor) and continue to control the cutting area visually, especially the water supply, in order to intervene or, if necessary, to stop the cutting operation at any time.

5.3 Finishing cutting operation

1. Stop the joint cutter (feed) and let the diamond saw blade rotate freely in the cut,
2. Keep the joint cutter's position. Release the cutting depth locking mechanism and lift the rotating the diamond saw blade out of the cut. Then use the cutting depth locking mechanism to secure the cutting shaft (saw blade) position,

 The joint cutter brakes automatically when lifting out the cutting shaft!

3. Shortly rinse the diamond saw blade with the water cooling system,
4. Stop the engine of the joint cutter,
5. Wait until the cutting shaft and the diamond saw blade has come to a standstill,
6. If necessary, stop the compressed water supply and disengage the external pressure water hose from the joint cutter. Close the shut-off valve of the ater cooling or drain the joint cutter (water container),
7. Prepare the joint cutter for the next step or for transport (chapter 7), for this purpose dismount the diamond saw blade,
8. Clean the joint cutter (the diamond saw blade),
9. Perform maintenance and care work according to chapter 6.

5.4 Cutting operation in cold environment, winter operation



Avoid damage due to frost!

In order to prevent freezing of the cooling system and damage to the joint cutter, the water must be drained completely after each operation and before longer breaks if the temperature are below or around freezing point; else store the joint cutter in frost-free conditions (section 4.9)!

 Drain the shut down joint cutter (if necessary, blow out the hoses with compressed air with 6 bar), place it in a frost-free environment and/or cover it up!

If necessary, run the joint cutter with cooling or flushing water plus antifreeze additives*!

*Obtained from car accessories.



Observe the operating manual of the engine!

5.5 Reasons to change the diamond saw blade

- after complete wear of the diamond segments,
- in case of changes in the material to be cut,
- if the diamond saw blade runs out of true,
- if diamond segments are damaged or broken,
- if the saw blade is damaged or deformed due to tilting, ...

 Replace the diamond saw blade as described in section 4.6!

6.0 Maintenance and care



DANGER

Risk of injury! The joint cutter (engine) is to be shut down for any maintenance and repair work and to be secured against unexpected starting and rolling away!

Stop the joint cutter engine according to the operating manual of the engine and secure it against restart (see section 4.10.2)!

The basic safety instructions of this operating manual and the operating manual of the engine must be observed!



The workplace for cleaning, maintenance, care and any required repair works must be clean (dust-free) and suitably equipped for the work!

- Place the joint cutter on a horizontal and stable ground so that you have sufficient space for cleaning, maintenance, care and repair!
- Clean the joint cutter before every maintenance or repair!

ATTENTION

Do the maintenance works described in section 6.6 in the specified cycles (table 6.6 "Maintenance intervals").

In doing so, also check the wear parts not specified in the maintenance intervals and replace or adjust them if required!

Strictly adhere to maintenance and inspection intervals and let the works be done by CEDIMA® or personnel authorised by CEDIMA®! This will extend the service life of your joint cutter!

ATTENTION

Use original spare parts!

Only original spare parts can ensure the operational safety of the joint cutter!

6.1 Cleaning

Clean the joint cutter after each use and before every maintenance or repair!

6.1.1 Cleaning agents

ATTENTION

Never use aggressive detergents!

Aggressive cleaning liquids (e.g. solvents) as well as cleaning with liquids with a temperature above 30 °C is not permitted!

ATTENTION

Do not use high pressure or steam cleaning devices!

For reasons of safety and functionality, no water, detergent or steam may enter the engine and the engine components (e.g. air filter, fuel system), therefore do not use high pressure or steam cleaners!

6.1.2 Notes about dry cleaning

- Remove dust and dirt with a slightly damp cloth!
- Use lint-free cleaning cloths!
- Remove tenacious deposits with a (not too hard) brush, if required!

6.1.3 Notes about wet cleaning

- Before cleaning the machine with water or other cleaning agents cover or tape up all openings, housing, plug connection (insulating tape) to protect them against the ingress of moisture!
- Use a "soft" water jet and a brush (not too hard) to remove dirt and residue!
- Be especially careful at critical spots (e.g. switches, engine, ...)!

The electric and especially the electronic components may not come into contact with the water spray!

- Do not flush any bearings else there is a risk of running dry!
- After cleaning, remove the covers/tapes completely!

6.2 Performing regular visual checks

- Escaping process materials and lubricants,
- Escaping cooling or flushing water,
- Loose connections and connecting elements (saw blade guard, handles, ...),
- Damage of operating elements (switches,...), indicators, power sockets, plugs, connections, and/or the electric system, electronics (if present), mechanical system, housing, ...!,
- Defective safety devices.
 - Immediately take the joint cutter out of operation if any of such damage as mentioned above occurs! Repair the joint cutter!



DANGER

It is prohibited to keep working with the joint cutter unless the damage mentioned above have been repaired!

ATTENTION

Ensure operational safety of the joint cutter!

ATTENTION

Keep the safety and warning signs attached to the joint cutter clean so that they remain readable even after longer periods of time!

Replace any unreadable labels!

6.3 Relubrication, corrosion protection

- The joint cutter is largely protected against corrosion. Regular checks and any repairs should be carried out to preserve the corrosion protection!
 - After cleaning and in case of longer periods on non-use provide the metallic sliding parts and the movable machine elements (e.g. lifting out spindle) with a thin film of multipurpose grease and/or corrosion protection oil (forming oil)!

Excessive oiling and greasing promotes further wear due to adhering dust and cutting slurry!

Multipurpose grease for the temperature range –20 to 120 °C (DIN 51 502, KP2K-20, NLGI-class, DIN 51 818)!

If possible, use biologically fast degradable lubricants and formwork oils according to RAD-UZ64!

6.4 Engine



ATTENTION

Clean, service and care the joint cutter engine according to the operating manual of the engine!

In the operating manual of the engine you find important information about adjustments, changing oil, air and fuel filter and other maintenance work!

Clean the fan grids and the motor housing!



For instructions on how to service the joint cutter engine refer to section 6.7.3!

6.5 Tightening torques



The values refer to screws tightened with tools!

Coarse-pitch thread acc. to DIN ISO 262	tightening torque [Nm] matching the strength class	
	8.8	10.9
M 4	2.25	3.31
M 5	4.61	6.77
M 6	7.80	11.5
M 8	19.1	28.0
M 10	38.0	55.8
M 12	66.5	97.7
According to VDI directive 2230		

6.6 Maintenance intervals for the CEDIMA® joint cutter CF•13.3 B/CF•13.3 B-L

	before each start-up	after finishing work	after 1/2 operating hour	first time after 10 h	after 1 month or 20 h	weekly	after 3 months or 50 h	after 6 months or 100 h	annually or 300 h	after 2 years	in case of faults	in case of damage
Entire machine	3	1							3		3	4***
Tool receptacle (flanges and saw blade receptacle)	1, 2, 3	1									3, 5	4
Tool (diamond saw blade)	3, 6	1									3, 4, 6**	4
Operating elements (handles, crank handle, ...)	3	1									3, 4**, 5	4
Water system (hoses, tank, shut- off valve, ...)	3, 7	1							3		1, 3, 5	4***
V-ribbed belt	3			3, 5							5, 4**	4***
V-ribbed belt grooved pulleys			5****								3, 4**, 5	4
Lubricating points	3	1, 2									5	4***
Threaded spindle	3	1, 2									1, 3, 4**	4***
Motor	3, 7, 8				8 *		8 *	8 *	8 *	8 *	8	4**
Parking brake	3										3, 5	4
Reachable connecting elements (screws, ...)						5					3, 4**, 5	4***
Wheels	3	1									1, 3, 4**, 5	4***

h = operating hours

*) Service more often in dusty environment

****) Depending on severity (extent) of damage

**) Depending on load, condition

*****) After mounting/repair

Must be done by CEDIMA® and/or personnel approved by CEDIMA®!

1 clean, drain

2 grease, lubricate, oil, corrosion protection

3 check (visual, function)

4 replace, exchange

5 Retighten, adjust, replace wear parts

6 Replace if required

7 Fluid levels check, replenish

8 Observe the corresponding

operating manual

You will find the description of the maintenance work in the following and corresponding chapters of this operating manual and in the operating manual of the engine!

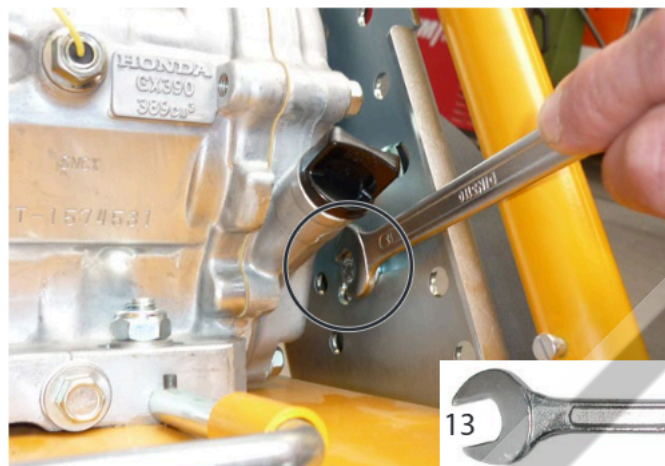
The table can be updated by CEDIMA® at any time (e.g. to comply with technical necessities and developments)!

Please ask about it at CEDIMA®!

6.7 Maintenance works

6.7.1 Tensioning the V-ribbed belt

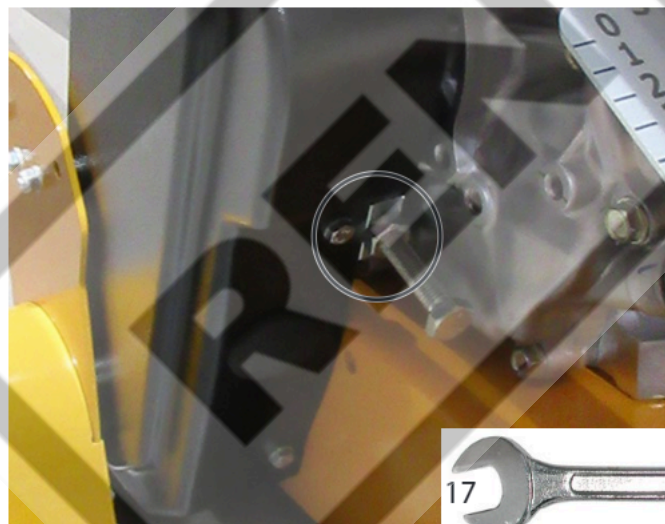
1. Lift out the cutting shaft (saw blade),
2. Dismount the front plate (section 4.1),



3. Clamping screw at V-ribbed belt tensioner

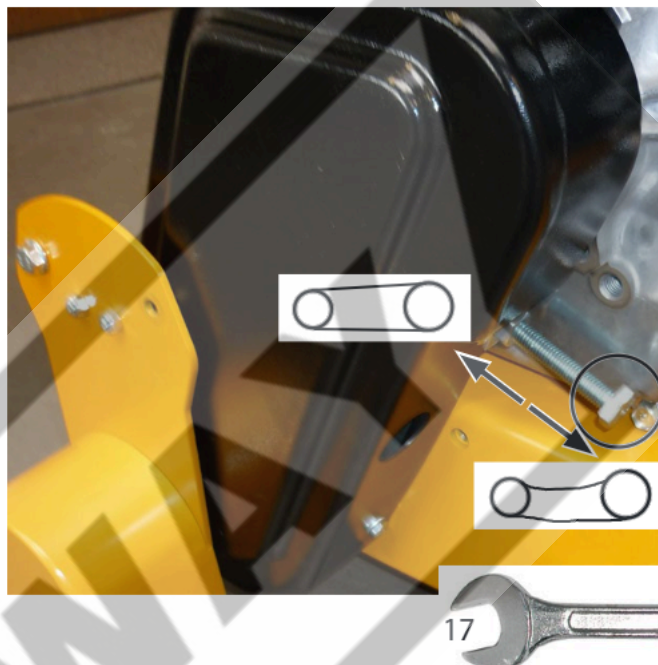
Figure 6.1

 If necessary, dismount the saw blade guard and the saw blade mounted on the left (section 4.6.4)!



4. Lock nut of the adjusting screw at V-ribbed belt tensioner

Figure 6.2



5. Tension the V-ribbed belt

Figure 6.3

6. Tighten the clamping screw at the V-ribbed belt tensioner (figure 6.1),

 Carefully rotate the cutting shaft drive manually (starter pull wire) so that the V-ribbed belt can "settle"!

7. Check the V-ribbed belt tension (section 4.4)!

ATTENTION

Do not overstretch the V-ribbed belt!

The V-ribbed belt can break and the cutting shaft and engine bearings suffer overload and destruction!

8. If necessary, re-tension the V-ribbed belt as described and check the tension again,
9. Tighten the clamping screw at the V-ribbed belt tensioner and the lock nut of the adjustment screw (figures 6.1 and 6.2),
10. Check the true running by visual check in "inching" mode! To do so, let the cutting shaft drive start up shortly, see section 4.10, and immediately switch OFF the joint cutter (engine) again.

6.7.2 Replacing the V-ribbed belt as here demonstrated on the CF•13.2 B



The V-ribbed belt should or must be replaced when another tensioning is not possible any more and/or the V-ribbed belt is damaged (torn, frayed, porous,...)!



DANGER

Risk of pinching or crushing when replacing the V-ribbed belt!

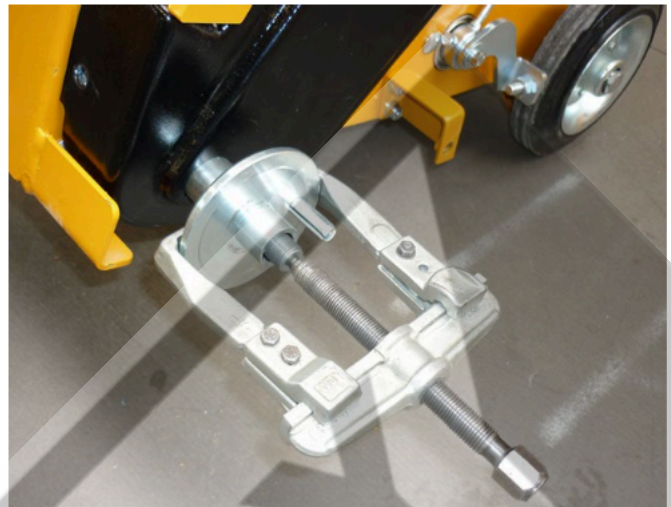
Careful with hands and fingers!

1. Lift out the cutting shaft (saw blade),
2. Dismount the cutting shaft guard or the saw blade guard and the saw blade mounted on the left (section 4.6.4),
3. Dismount the left cutting shaft nut with the clamping ring and if applicable the mounted saw blade pressure flange (figures 4.30, 4.31 and 6.4),



4. Left cutting shaft side, saw blade guard and if applicable saw blade, cutting shaft nut, clamping ring, saw blade pressure flange or cutting shaft guard dismantled

Figure 6.4



5. Pull saw blade holder flange off the left side of the cutting shaft, parallel key

Figure 6.5

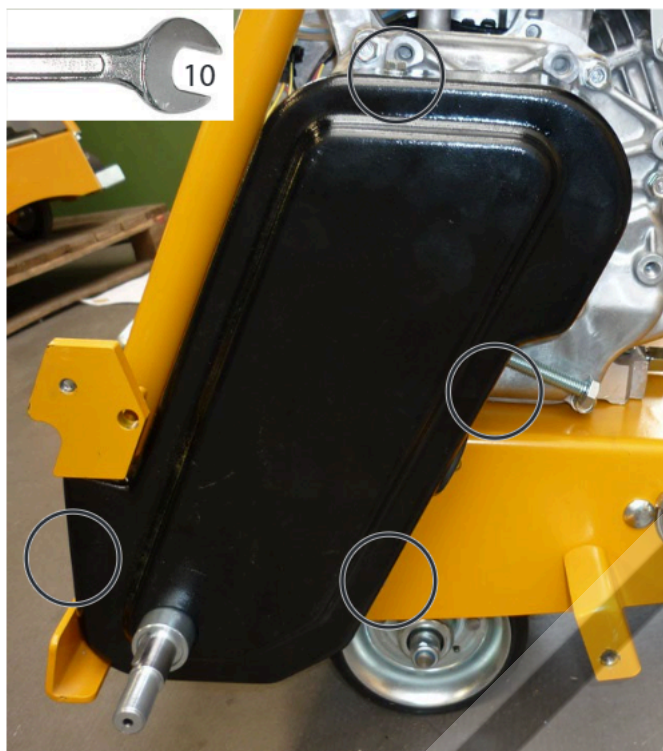


Pay attention to the parallel key in the cutting shaft!
Do not use force!



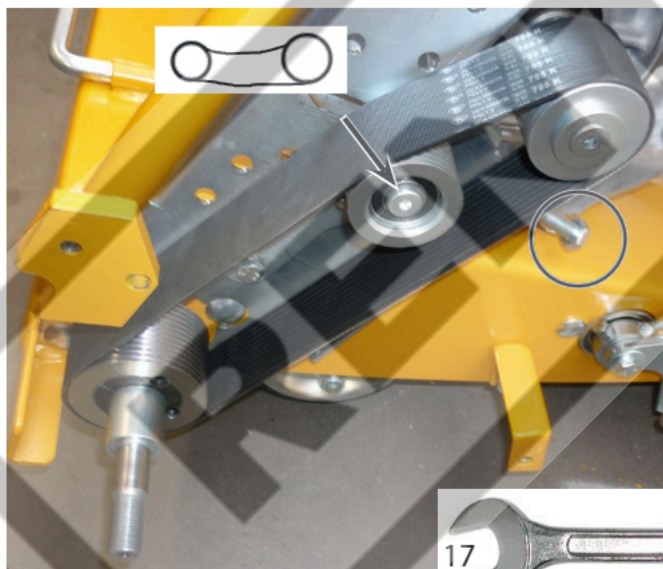
6. Saw blade holder flange pulled off the left side of the cutting shaft, parallel key

Figure 6.6



7. V-ribbed belt guard cover mounted with screws

Figure 6.7

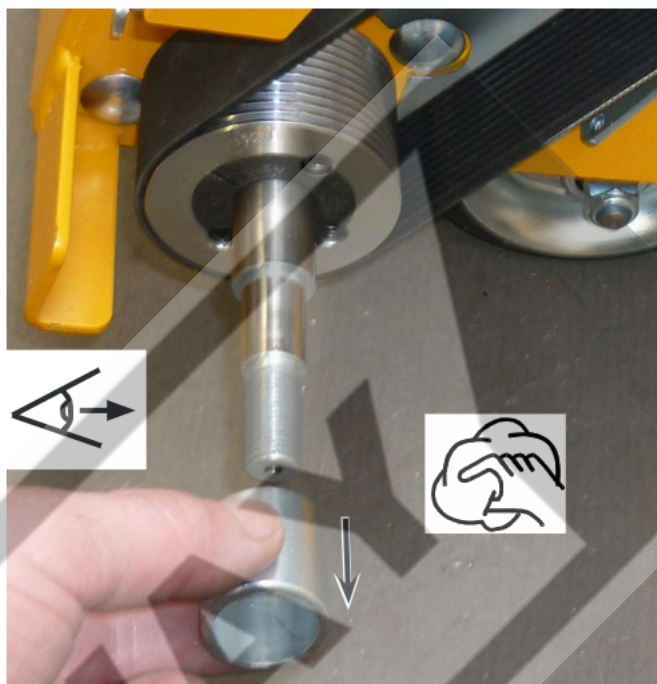


8. V-ribbed belt guard cover dismantled. Release V-ribbed belt

Figure 6.8



Release the V-ribbed belt according to section 6.7.1!

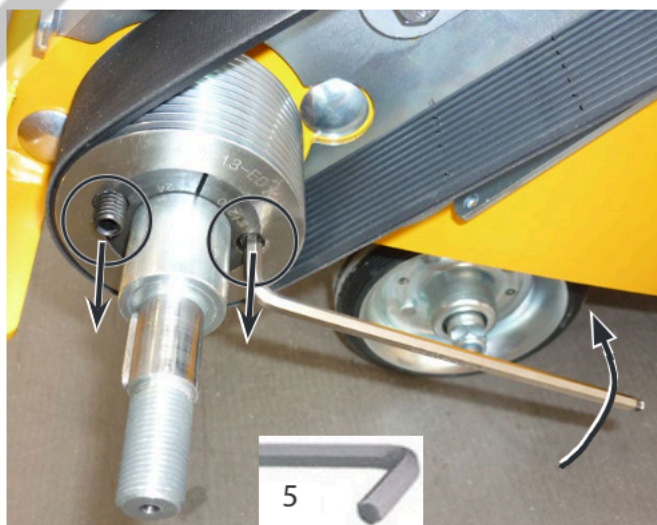


9. Sleeve pulled off the left side of the cutting shaft

Figure 6.9

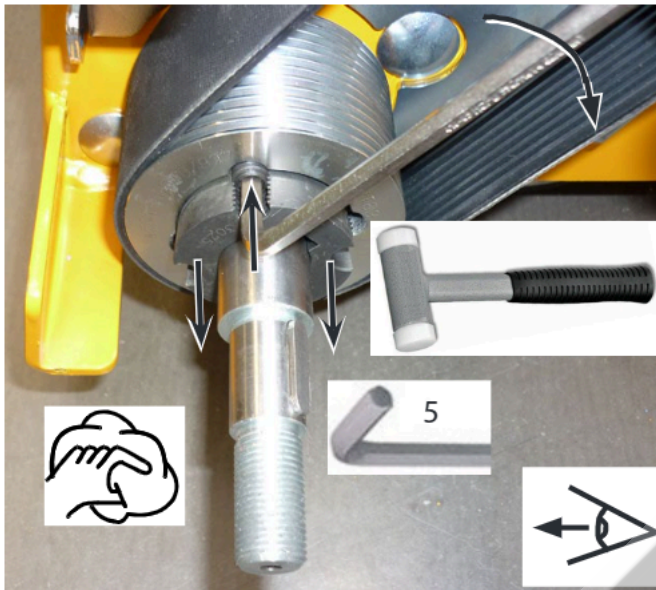


Press off the tight fitting sleeve off the cutting shaft using the taper clamping bush (figures 6.10 and 6.11)!
Do not use force!



10. Unscrewing the studs

Figure 6.10

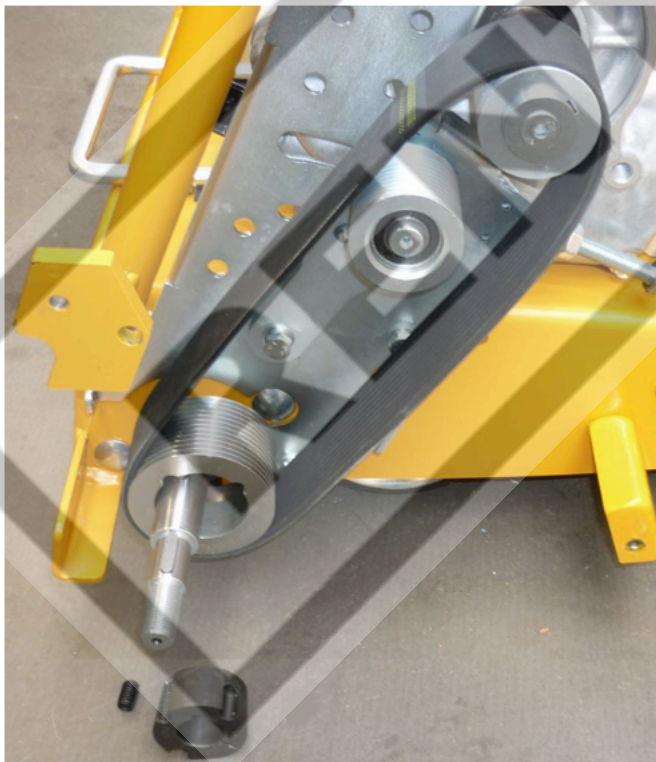


11. Screw stud into the third drilled hole and press the taper clamping bush with the stud out of the grooved pulley

Figure 6.11

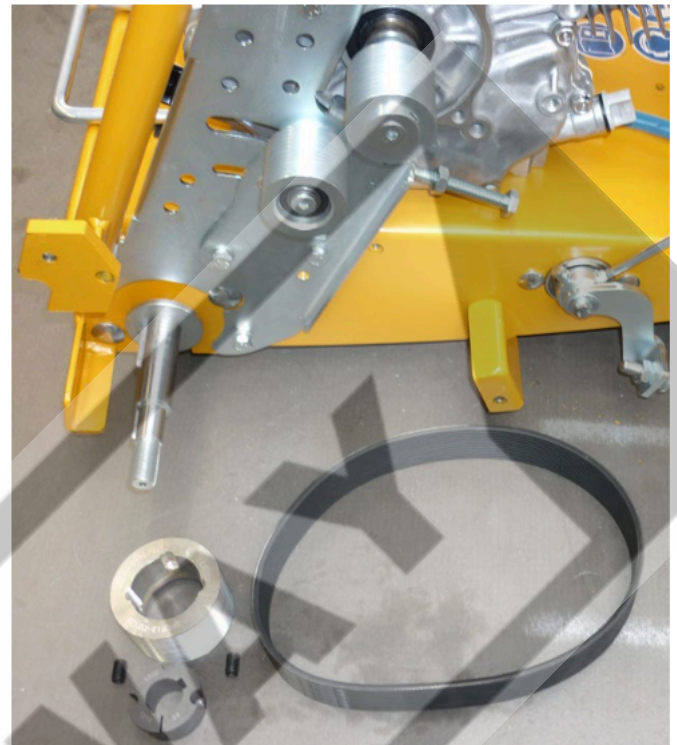
 If the taper clamping bush is stuck, loosen it by hitting the plastic hammer on the front side of the grooved pulley!

Do not use force!



12. Taper clamping bush removed from grooved pulley of cutting shaft

Figure 6.12



13. V-ribbed belt with cutting shaft grooved pulley removed

Figure 6.13

14. Put the new V-ribbed belt according to the supplier's instructions (if applicable, direction of rotation, ...) onto the engine grooved pulley and plug it onto the cutting shaft with the cutting shaft grooved pulley (figure 6.12).

ATTENTION

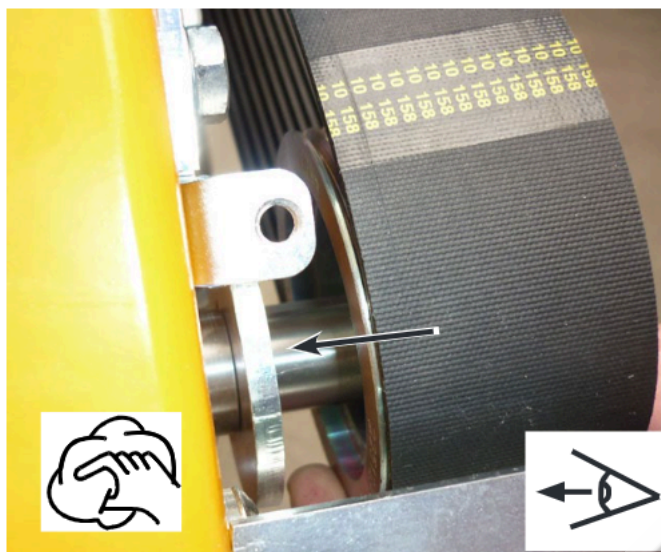
Do not use sharp or pointed objects to pull on the V-ribbed belt!

Do not damage the V-ribbed belt!

 The V-ribbed belt must lie completely on the grooved pulleys!

 Do not tilt the grooved pulley!

Do not use force!



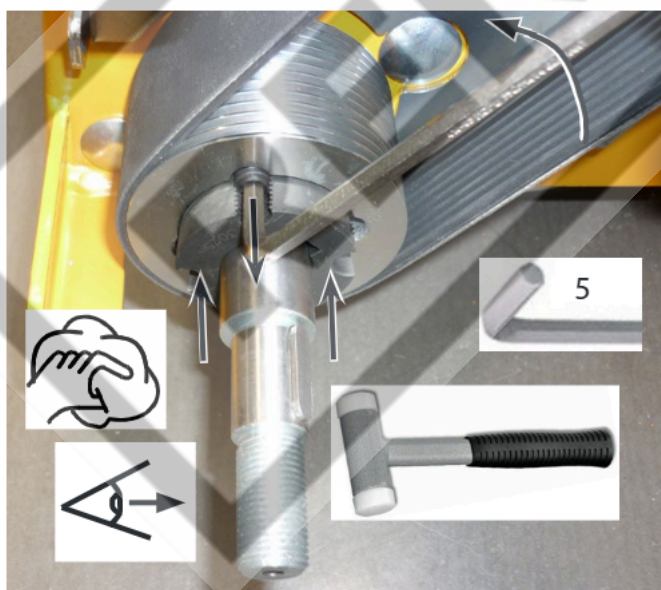
15. Set cutting shaft grooved pulley onto the centre disk of the cutting shaft

Figure 6.14

16. Place a stud into the taper clamping bush as guide (opposite of the gap) and put the taper clamping bush according to the parallel key onto the cutting shaft into the cutting shaft grooved pulley (figure 6.15),

 Ensure that the area between cutting shaft grooved pulley, taper clamping bush and cutting shaft is clean, degrease!

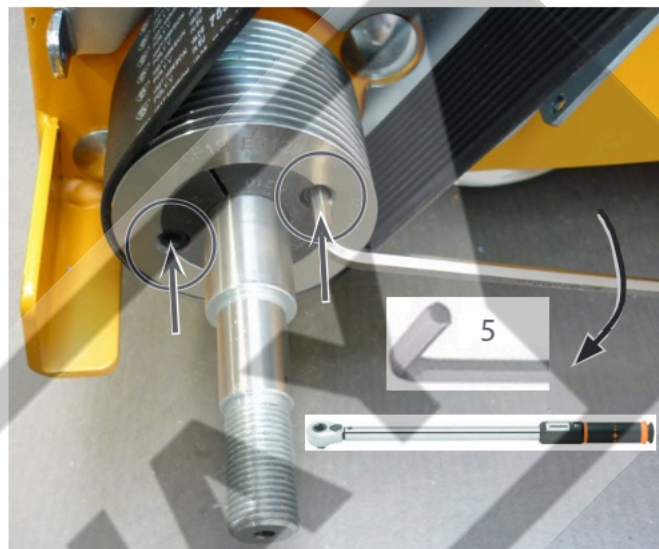
Align the cutting shaft grooved pulley, the taper clamping bush and the cutting shaft to each other! Pay attention to the cone of the taper clamping bush and grooved pulley!



17. Taper clamping bush with guide stud inserted in the grooved pulley on the cutting shaft

Figure 6.15

 Do not tilt the taper clamping bush!
Unscrew the stud accordingly!
Do not use force!

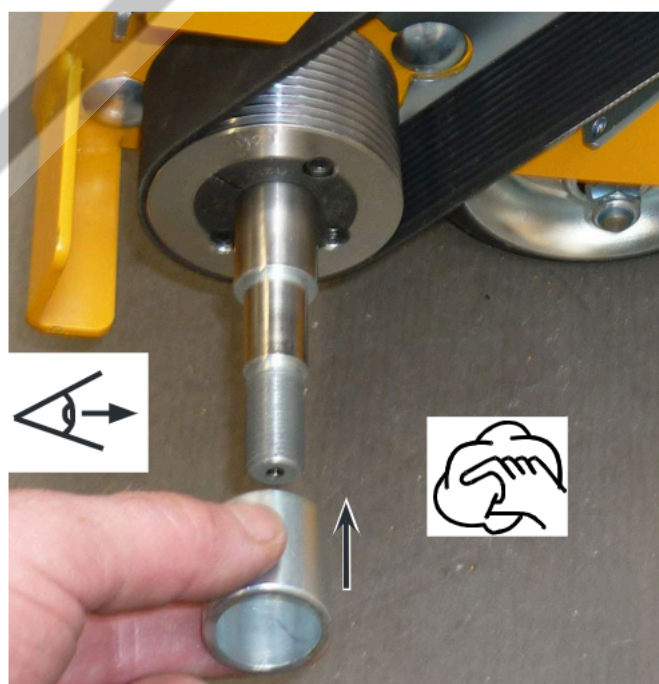


18. Screw in studs evenly

Figure 6.16

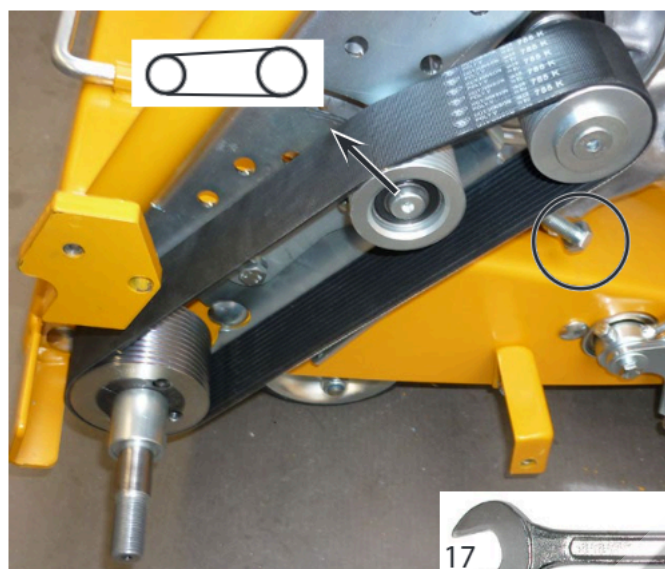
 Grease the two studs slightly and screw them in evenly with the correct torque (20 Nm, decisive are the manufacturer's specifications)!

Fill the 3 holes of the taper clamping bush with grease to prevent corrosion!



19. Plug the sleeve onto the left side of the cutting shaft

Figure 6.17

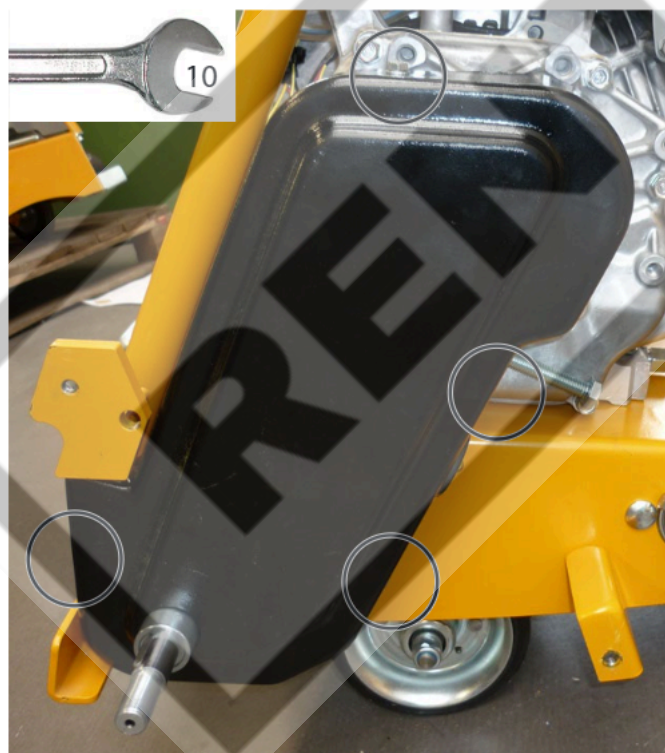


20. Tension the V-ribbed belt

Figure 6.18



Tension the V-ribbed belt according to section 6.7.1!



21. V-ribbed belt guard cover mounted with screws

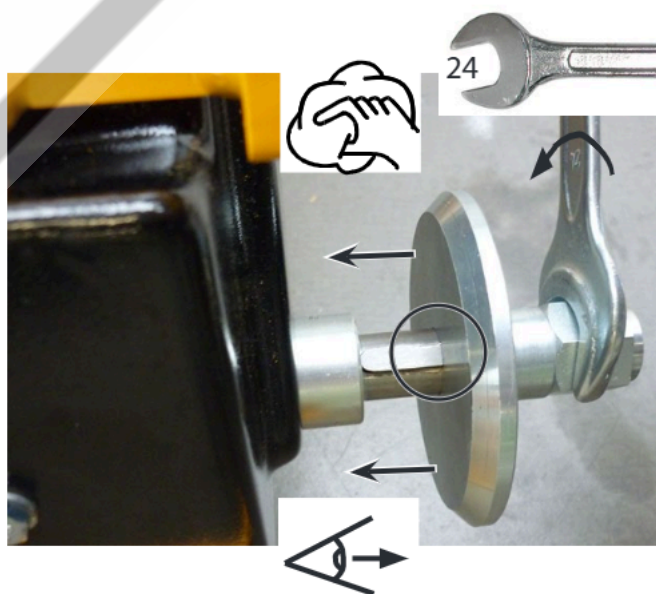
Figure 6.19

○ Align the saw blade holder flange according to the parallel key on the cutting shaft (figures 6.20 and 6.21)!



22. Plug the saw blade holder flange onto the left side of the cutting shaft, parallel key

Figure 6.20



23. Push the saw blade holder flange with the cutting shaft nut onto the left cutting shaft side

Figure 6.21



Saw blade holder flange plugged onto the left side of the cutting shaft

Figure 6.22

ATTENTION

Check the connection of the V-ribbed belt grooved pulleys!

After approx. 1/2 h operating time, re-tighten the studs with the correct torque!

ATTENTION

After no more than 10 operating hours, check the new V-ribbed belt and re-tension, if necessary!

6.7.3 Engine maintenance

Changing engine oil



Change the engine oil according to the operating manual of the engine!



DANGER

Risk of injury due to hot engine oil!

Wear appropriate personal protective equipment (gloves, ...) and use suitable tools (collecting pan, ...)!



Dismount the diamond saw blade so that you can adjust the joint cutter engine horizontally!

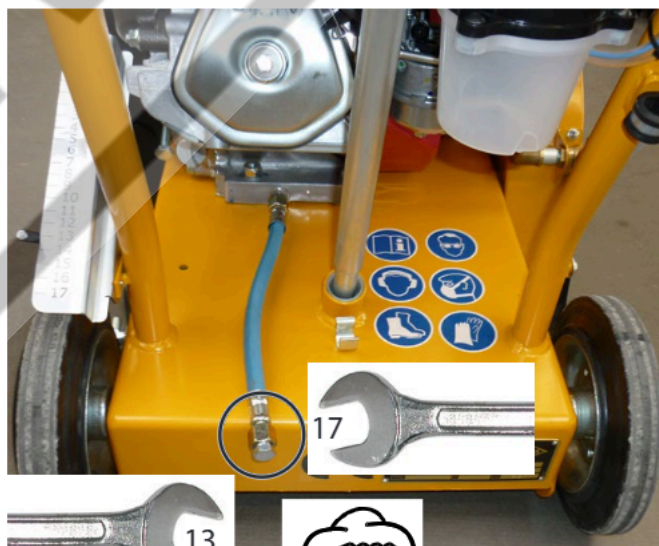
Take the engine oil drain hose out of the support thus draining the used oil (figures 6.23 and 6.24)!

Observe section 4.1!



Engine oil drain hose in the support

Figure 6.23



Engine oil drain hose, taken out of the support

Figure 6.24



Hold the engine oil drain hose with a second open-ended spanner!

6.7.4 Preparing the joint cutter for further motor maintenance as here demonstrated on the CF•13.2 B



For further engine maintenance, dismantle the water container (section 4.9.2)!

Dismount the heat baffle plate:



DANGER

Risk of pinching or crushing when mounting/ dismantling the heat baffle plate!

Careful with hands and fingers!



DANGER

Risk of burns! Some engine parts will be very hot in operation and cool down slowly after stopping the engine!

Let the heat baffle plate cool down!

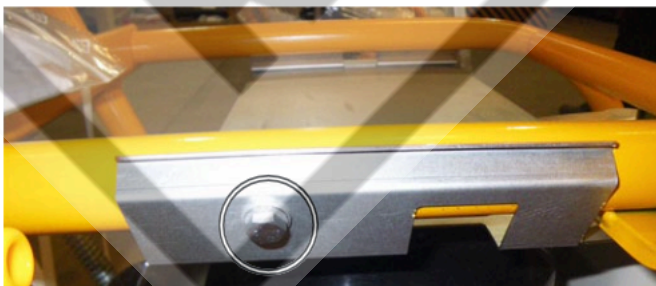
1. Dismount the water container and the rubber strap (section 4.9.2, figure 6.25).



Water container and rubber strap dismantled

Figure 6.25

2. Loosen and remove the fastening screw at the heat baffle plate.



Heat baffle plate pressed away from the frame

Figure 6.26

4. Carefully pull out the heat baffle plate between frame and engine (figures 6.26 and 6.27).



Heat discharger plate, water container dismantled

Figure 6.27

3. Press the heat baffle plate down from the frame of the CF•13.3 B / CF•13.3 B-L (figures 6.25 and 6.26),



To protect the water container, mount the heat baffle plate immediately again!

When mounting the heat baffle plate, pay attention to the position at the CF•13.3 B / CF•13.3 B-L frame!

7.0 Transport and longer periods of non-service/storage



DANGER

Risk of injury! The joint cutter is to be shut down before transport and storage and to be secured against unexpected starting and rolling away!

Stop the joint cutter engine according to the operating manual of the engine and secure it against restart (see section 4.11.2)!

The basic safety instructions of this operating manual and the operating manual of the engine must be observed!



ATTENTION

Transport and store the joint cutter engine according to the operating manual of the engine!

7.1 Transport

- Drain the cooling and flushing system completely (water container, hoses, ...and blow out with compressed air, if necessary (max. 6 bar)!
- Uncouple the external compressed water hose!

 The filled water container elevates the centre of gravity and can cause the joint cutter to tilt during transport!

- Dismount the diamond saw blade,

 Do not transport the joint cutter with the diamond saw blade mounted!

- Transport the joint cutter upright and horizontally in order to prevent fuel and engine oil from leaking out,
- Open the saw blade guard hood,
- flip up the front visor (boom) (right cut, figure 7.1),
- Crank down the cutting shaft to the stop,
- Push in and lock the push handle,
- Secure the joint cutter components against pushes, slipping, tilting, ... (tool, ...).
- Use the crane eye at the CF•13.3 B / CF•13.3 B-L frame for crane transport and rigging (figure 7.1),

ATTENTION

The push handle is not designed by transport by crane!

- Use the 2 push handle tubes and retractable handle at the CF•13.3 B / CF•13.3 B-L frame for lashing (figures 7.2 and 7.4)!



Saw blade guard right, crane eye

Figure 7.1



Transport position of the push handle

Figure 7.2

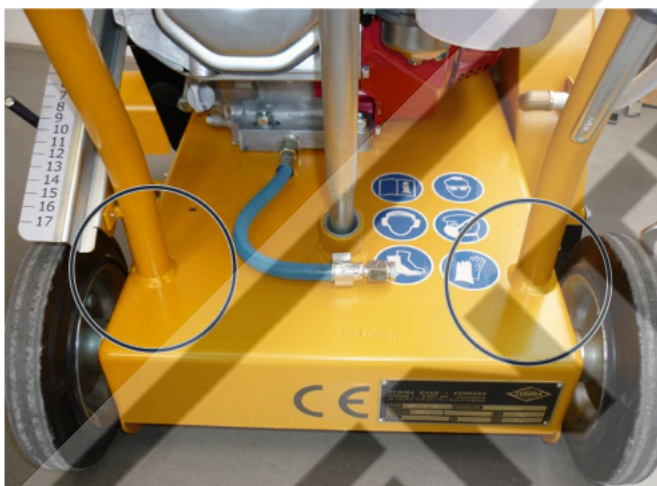


Swivel the front visor upward during transport and arrest the detent pin
Figure 7.3



Handle pulled out

Figure 7.6



Lashing options at the push handle tubes

Figure 7.4



Handle pushed in

Figure 7.5



DANGER

Risk of pinching or crushing when pushing in the handle!

Careful with hands and fingers!

- Check all connection and attachment elements/modules before and after transport for firm and correct seat.

ATTENTION

After transport, check the components of the CF•13.3 B / CF•13.3 B-L for transport damage!

7.2 Longer periods of non-service/storage

- Observe the maintenance intervals and perform maintenance work,
- Observe the previously mentioned issues about transport (section 7.1),
- Release the V-ribbed belt,
- Turn the cutting shaft (engine) approx. monthly (by hand) for some revolutions,
- Run the functions of the joint cutter approx. monthly,
- Unload the wheels (e.g. with wood under the frame),
- Check all screws and components for safe and secure seating.

The storage location is:

- not accessible for unauthorised persons,
- dry, frost-free, dust-protected,
- protected from extreme sunlight,
- protected from extreme temperatures or temperature fluctuations,
- protected from extreme vibrations,
- protected from other negative physical and chemical impact!

8.0 Troubleshooting at the joint cutter CF•13.3 B / CF•13.3 B-L

8.1 Problems with the engine

Problem	Possible cause	Remedy
Engine does not start	Fuel tank empty	Fill up fuel
	Cutting shaft blocked, cutting shaft with saw blade not lifted from the ground or out of the cut, respectively	Check cutting shaft for free movement Lift cutting shaft (saw blade) from the ground / out of the cut
	Operating lever not in Start position	Move operating lever to Start position
	Emergency-stop button not released	Release emergency-stop button
	Engine defective	check, repair or replace engine if necessary
No power during cutting, engine stops	V-ribbed belt slips	Tension V-ribbed belt
	V-ribbed belt defective (torn)	Replace V-ribbed belt
	Cutting pressure too high	Reduce cutting pressure (feed, cutting depth)!

 **Observe the operating manual of the engine!**

In case of further difficulties or defects observe the engine operating manual delivered by the manufacturer or contact CEDIMA® or a qualified work shop!

All works and repairs on the petrol-engine must only be performed by an authorized qualified work-shop or directly by CEDIMA®.

8.2 Problems with cutting

Problem	Possible cause	Remedy
Saw blade wobbles	Saw blade flange dirty and/or defective Cutting shaft nut has become loose bad saw blade tension	Clean, check saw blade flanges, replace if necessary Tighten cutting shaft nut Return saw blade to manufacturer
Saw blade has horizontal and/or vertical "wobble"	Saw blade is damaged (bent) Blade flange(s) dirty, defective Cutting shaft bent and/or bearing defective	Have the saw blade straightened Let the diamond segments be soldered onto a new saw blade core Use a new saw blade Clean or replace saw blade flange(s) Replace cutting shaft and/or bearing
Diamond segments become detached	Saw blade too hot	Solder diamond sections on again Adjust the cooling water supply
Excessive diamond segment wear	Incorrect saw blade type Cutting shaft is bent Saw blade too hot	Use harder saw blade type Replace bearing and/or cutting shaft Adjust the cooling water supply
Saw blade does not cut	Saw blade mounted against direction of rotation Saw blade not adjusted to the material to be cut (possibly too hard) Saw blade not matched to the machine performance Diamond segments are blunt	Mount saw blade according to the cutting shaft direction of rotation Use correct saw blade type Use correct saw blade type Sharpen the saw blade
Cutting line is not optimal	bad saw blade tension (steel core) Saw blade is too heavily loaded Diamond segments are blunt	Return saw blade to manufacturer Reduce the feed (cutting depth) Sharpen the saw blade
Saw blade has rotated on the cutting shaft	Driver pin defective, missing	Replace, insert driver pin
Diamond saw blade stops under load	V-ribbed belt slips V-ribbed belt defective (torn) Driver pin defective, missing	Tension V-ribbed belt Replace V-ribbed belt Replace, insert driver pin
Saw blade is discoloured	Saw blade too hot Side friction of saw blade too high	Adjust the cooling water supply Reduce the feed Do not tilt saw blade in the cut
Cracks in steel core of saw blade	Saw blade is too hard	Use a "softer" saw blade
Chafe marks on the saw blade	Feed line not parallel to saw blade Saw blade is too heavily loaded Bad saw blade tension	Do not tilt saw blade in the cut Align front visor according to left or right cut Reduce the feed Return saw blade to manufacturer

Problems with cutting

Problem	Possible cause	Remedy
Eccentric wear on the diamond segments	Support of the saw blade is worn out (cutting shaft, saw blade hole)	Turn the saw blade location bore and let a ring be fit in
	Saw blade flange dirty and/or defective	Clean, check saw blade flanges, replace if necessary
	Cutting shaft has shrunk	Check saw blade attachment of the cutting shaft, replace cutting shaft if necessary
	Too much bearing play of the cutting shaft	Replace cutting shaft Replace bearing or cutting shaft
Little or no flow of cooling water	Water supply not set to the optimum	Adjust compressed water supply
	Water hoses jammed, defective, off, bent	Clean, check, connect or replace water hoses
	Shutoff valve clogged, defective, not open	Clean, check, open or replace shutoff valve

ATTENTION

Care and maintenance work as well as upkeep/repair of the joint cutter and the diamond saw blades must be done by CEDIMA® and/or personnel approved by CEDIMA®!

The problems and their possible causes are mostly a result of natural wear and tear and in the **incorrect** handling of the joint cutter or the diamond saw blade)!

Therefore you should read this operating manual thoroughly!

9.0 Return of machines / disposal

CEDIMA® commits to take the joint cutter CF•13.3 B / CF•13.3 B-L back for disposal.

The joint cutter can be delivered free of charge at **CEDIMA®** or at a point of acceptance appointed by **CEDIMA®**.

10.0 Terms of warranty

1. The supplier must be notified in writing of any evident defects in the machine within 14 days of receipt. If this period has expired or if the machine in question has been operated or worked on, the machine shall be considered as accepted by the purchaser. Hidden defects are to be notified in writing immediately on discovery, at the latest however within 6 months of receipt of the machine.

2. We guarantee the agreed usability of the device delivered by us for a period of 12 months. This term begins on the day the device arrives with the buyer. Irrespective of this, our obligation shall be considered as fulfilled, as soon as the goods are dispatched from our works/warehouse. In no case do we assume a producer's guarantee. The mandatory regulations of the law for product liability remain untouched.

3. Wearing parts are subject to a limited warranty. Wearing parts are parts subject to operation-related wear during proper use of the device. The rate of wear cannot be uniformly defined and differs according to the intensity of use. The wearing parts must be adjusted, maintained and, if necessary, replaced for the specific device in accordance with the manufacturer's operating manual. Operation-related wear is not a reason for claims to defects.

Wearing parts for the construction devices mentioned in the operating manual such as core drilling and sawing machines and special machinery as well as related general assemblies (if available):

- Feed and drive elements such as toothed racks, gearwheels, pinions, spindles, spindle nuts, spindle bearings, wires, chains, sprockets, belts
- Seals, cables, hoses, packings, plugs, couplings and switches for pneumatic, hydraulic, water, electricity, fuel systems
- Guide elements such as guide strips, guide bushes, guide rails, rollers, bearings, sliding protection supports
- Clamping elements for quick-release systems
- Flushing head seals
- Slide and roller bearings that do not run in an oil bath
- Shaft oil seals and sealing elements
- Friction and safety clutches, braking devices
- Carbon brushes, collectors / armatures
- Consumable operating materials
- Easy-release rings
- Control potentiometers and manual switching elements
- Securing elements such as dowels, anchors, screws and bolts
- Fuses and lamps
- Bowden cables
- Disks
- Diaphragms
- Spark plugs, glow plugs
- Parts of the reversing starter such as the starting rope, starting pawl, starting roller and return spring
- Sealing brushes, rubber seals, splash protection cloths
- Filters of all types
- Drive and guide wheels/pulleys and associated rubber tyres
- Cable wire protection elements
- Drive and travel wheels
- Water pumps
- Cut-material transport rollers
- Drilling, separating and cutting tools
- Energy storage devices.

4. In case of a justified complaint, we can choose to repair the device and/or to provide a replacement against return of the device. Replaced parts or devices become our property.

5. Complaints are to be notified in writing stating the serial number of the machine, invoice number and date.

6. As a rule, repairs will be carried out at the supplier. The purchaser shall bear any additional costs of mechanics and helpers arising from repair work carried out on his premises at his request. The warranty does not cover any repair carried out in the workshop of a third party without the prior consent of the supplier.

7. If the supplier expressly gives his consent to the replacement of assemblies or parts by the purchaser or a third party, the supplier will only accept claims for compensation asserted by the purchaser, if justified, after the assemblies or parts in question have been returned to us and examined by us.

8. According to the statutory regulations the buyer is only entitled to cancel a contract, if we refuse improvements or the supply of replacements acc. to item 4 even though a defect has been proven, or a deadline that we have been given has elapsed unfulfilled. If only a minor defect has occurred, the buyer is merely entitled to an abatement of the purchase price, which in any other case is excluded.

We are not liable for compensation on account of a defect or damage subsequent to a defect, unless these occur on account of an intention or a negligence which we are responsible for.

9. The warranty does not cover damage arising for the following reasons:

- a) deficient installation,
- b) improper use or overloading,
- c) extended overloading resulting in damage to the windings of the armature or coil,
- d) external effects such as damage in transit or through environmental effects or other natural phenomena,
- e) the use of add-on equipment or accessories not intended for use with the machine.

10. Any diamond cutting tool that gives cause for complaint must be immediately removed from the machine. To protect the purchaser's rights and to be able to carry out a proper inspection, the amount of the diamond segments remaining must be at least 20% of the full height. The purchaser's claim for compensation cannot be entertained if he does not observe this requirement.

11. If any warranty claims are satisfied by the supplier, the warranty period shall neither be extended nor a new warranty period for the machine be started. The warranty period for installed replacement parts expires no earlier and no later than the warranty period for the original machine.

12. In addition to the above, our general terms and conditions of sale and delivery apply in full.

13. The place of fulfilment and exclusive place of jurisdiction for both parties is Celle.

CEDIMA® Diamantwerkzeug- und Maschinenbaugesellschaft mbH, Celle

January 2005



RENTWAY

• DIAMOND SAW BLADES

for wet and dry cutting in concrete, reinforced concrete, asphalt, natural stone;
saw blade diameter from 110 to 2200 mm

• DIAMOND DRILL BITS

for wet and dry drilling in concrete, reinforced concrete, asphalt, natural stone;
drill bit diameter from 12 to 1200 mm

• DIAMOND TOOLS

grinding discs for hand and floor grinders, diamond saw wires,
chamfering discs, diamond saw chains, diamond segments

• JOINT CUTTERS

with petrol, diesel or electric motor, with or without automatic feed;
cutting depths from 120 to 900 mm

• CORE DRILL MACHINES

hand or drill rig machines with electric or hydraulic drilling motor;
drill diameter from 12 to 1250 mm

• WALL SAWS AND WIRE SAWS

electric, hydraulic and electro-hydraulic wall saws with a cutting depth
up to 730 mm; wire saw machines, circular saw

• TABLE SAWS

to cut tiles, general construction material or large-format stones;
cutting depth from 25 to 450 mm

• SPECIAL MACHINERY

reinforced concrete breakers, floor grinding machines, surface milling machine,
crack mills, brush machines, chain saws, hand-held saws, slurry separators



CEDIMA® Diamantwerkzeug- und
Maschinenbaugesellschaft mbH

Lärchenweg 3 • 29227 Celle/Germany

Tel. +49 (0) 5141-88 54-1 00 • Fax +49 (0) 5141-88 54-1 11

Internet: www.cedima.com • E-mail: info@cedima.com

