User Manual

FERREX®

40 V LI-ION CORDLESS ANGLE GRINDER

FAW 40-I

MANUAL DEVELOPED IN GERMANY
hanse control
myhansecontrol.com
User-friendly Manual
ID: #05007

Original instructions

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Your ALDI Service Portal

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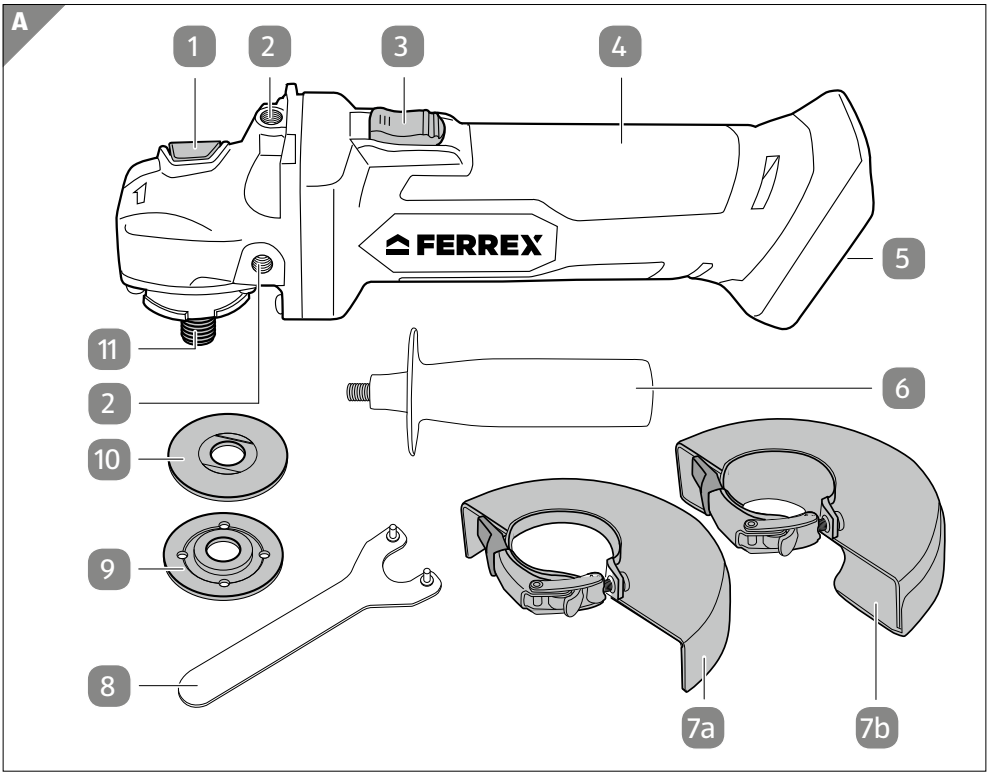
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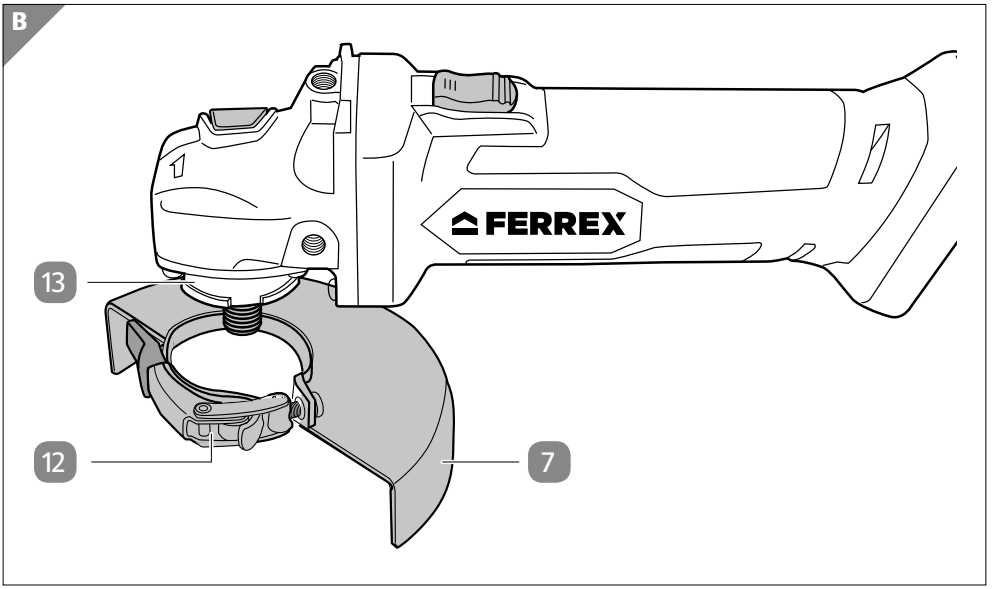
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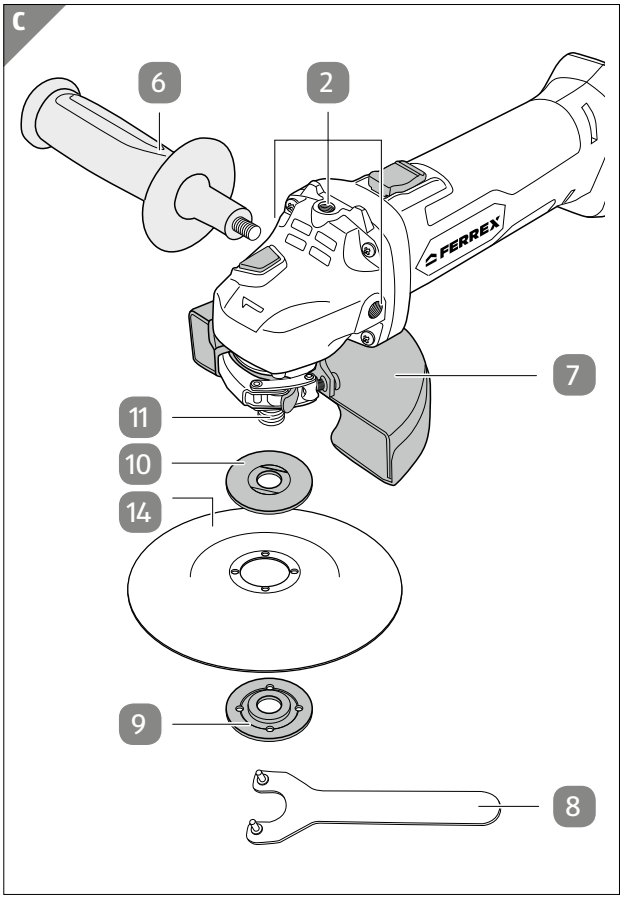
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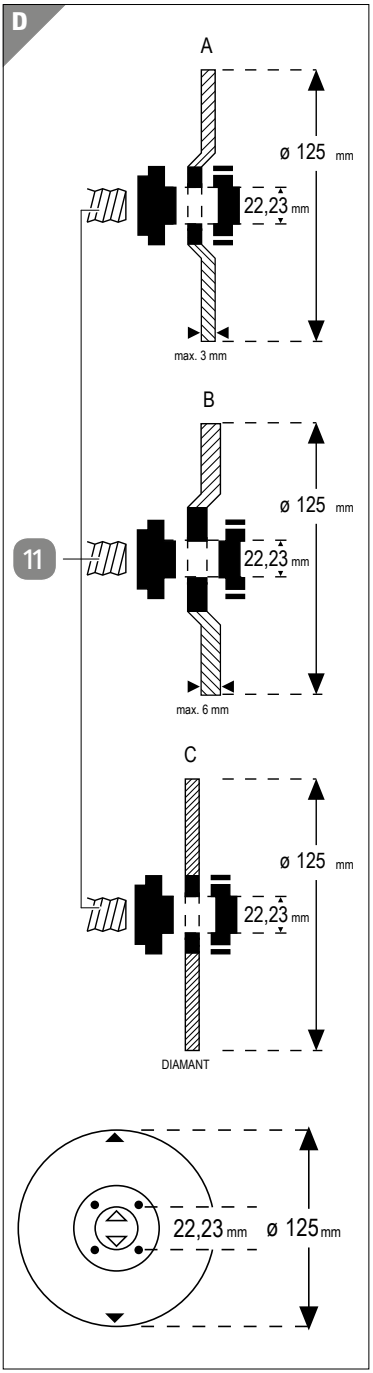
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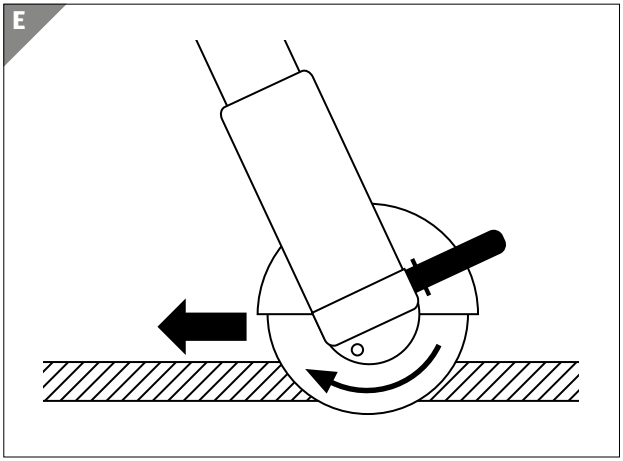
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Package contents/part list

1. Spindle lock
2. Thread (for supplementary handle), 3 x
3. On/Off switch
4. Handle surface
5. Battery holder
6. Supplementary handle
7a. Disc guard for grinding discs
7b. Disc guard for cutting discs
8. Spanner
9. Clamping flange
10. Support flange
11. Spindle
12. Fastening clamp
13. Holder (for disc guard)
14. Grinding/cutting disc*

*Example illustration!
Grinding/cutting discs are not included in the package contents.

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General information

Reading and storing the user manual

This user manual accompanies this 40 V Li-Ion cordless angle grinder FAW 40-I (referred to below only as the 'grinder'). It contains important information on safety, usage and care.

Read this user manual carefully before using the grinder. Pay particular attention to the safety notes and warnings. Failure to heed the instructions in this user manual may result in severe injury or damage to the grinder.

Comply with valid local or national provisions concerning the use of this product. Keep this user manual in a safe place for future reference. If you pass the grinder on to third parties, this user manual must be included.

This user manual can be downloaded in PDF format from our website at www.conmetallmeister.de.

Explanation of symbols

The following symbols and signal words appear in this user manual, on the grinder or on the packaging.

Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

NOTICE!

Warns against potential damages to property.

This symbol provides you with useful supplementary information about assembly or operation.

Declaration of Conformity (see 'Declaration of Conformity' chapter): Products marked with this symbol meet all applicable Community regulations for the European Economic Area.

Read the user manual.

Wear protective goggles.

Wear a dust mask.

Wear ear protection.

Wear suitable protective gloves.

Safety

Proper use

The grinder is designed only for private users in connection with hobby and DIY projects for the following purposes:

- for dry cutting of metal and stone materials,
- for dry surface grinding of small surfaces,
- for dry deburring of metallic materials.

Any other applications are expressly prohibited and are deemed improper use. The grinder is designed to be used exclusively without water.

This grinder does not come with a battery or charger. These must be bought separately: The grinder can be operated using a 20/40 V Activ Energy® battery. Use only the batteries specified in the chapter 'Technical data' for the grinder. Do not operate the grinder with batteries from other manufacturers.

Neither the manufacturer nor the retailer can accept any responsibility for injury, loss or damage caused by misuse of this product of any kind. Examples of misuse are given in the following non-exhaustive list:

- use of the grinder for purposes other than the intended purposes;
- use of the grinder as a polisher;
- failure to observe the safety notes and warnings as well as the assembly, operating, maintenance and cleaning instructions contained in this user manual;
- failure to observe any specific and/or generally applicable health, safety and accident prevention regulations concerning the use of this grinder.
- use of accessories and spare parts not intended for the grinder;
- modifications to the grinder;
- repairs to the grinder performed by parties other than the manufacturer or a qualified professional;
- use of the grinder for commercial or industrial applications as well as in connection with the trades;
- operation and maintenance of the grinder performed by persons who do not know how to use the grinder and/or have not been warned of possible risks of use.

Residual risks

Despite proper use, inconspicuous residual risks cannot be completely ruled out.

The following risks may arise due to the design of the grinder:

- projection of parts or breakage of the sanding surface, the fitted tool or the material being processed poses a risk of severe injury or blindness if the prescribed protective goggles are not worn;
- contact with sharp or hot parts of the workpiece or the fitted tool during operation or while performing maintenance;
- damage to hearing if the prescribed ear protection is not worn;
- inhalation of particles produced whilst sanding the material as well as the surface being sanded.

General power tool safety instructions

⚠ WARNING Read all safety notes and instructions.

Failure to follow the safety instructions and guidance may result in an electric shock, fire and/or severe injury.

Save all warnings and instructions for future reference.

The term "power tool" used in the safety instructions refers to mains-operated power tools (corded) and battery-powered power tools (cordless).

Work area safety

a) **Keep your work area clean and well lit.** *Cluttered or dark areas invite accidents.*

b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*

c) **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

Electrical safety

a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*

b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*

c) **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*

d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*

e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of an extension cord suitable for outdoor use reduces the risk of electric shock.*

f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

Personal safety

a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*

b) **Use personal protective equipment. Always wear eye protection.** *Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*

c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*

d) **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*

e) **Take care to keep a normal body position. Maintain a stable stance and balance at all times.** *This enables better control of the power tool in unexpected situations.*

f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** *Loose clothes, jewellery or long hair can be caught in moving parts.*

g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of dust collection can reduce dust-related hazards.*

Power tool use and care

a) **Do not force the power tool. Use the correct power tool for your application.** *The correct power tool will do the job better and safer at the rate for which it was designed.*

b) **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*

c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*

d) **Store idle power tools out of the reach of children. Do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*

e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*

f) **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*

g) **Use the power tool, accessories and fitted tools etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*

Cordless tool use and care

a) **Only charge the rechargeable batteries in chargers recommended by the manufacturer.** *Chargers that are only suitable for certain rechargeable battery types pose a risk of fire if used with other rechargeable batteries.*

b) **Only use the rechargeable batteries designated for use in power tools.** *Using other rechargeable batteries may result in injury and a risk of fire.*

c) **Keep the unused rechargeable battery away from paper clips, coins, keys, nails, screws or other small metallic objects that could bridge the contacts.** *A short circuit between the contacts of the rechargeable battery could result in burns or fire.*

d) **If used improperly, liquid may leak out of the rechargeable battery. Avoid coming into contact with it. Rinse with water in the event of accidental contact.** *If liquid comes into contact with your eyes, also seek medical attention. Fluid leaked from the rechargeable battery may cause skin irritations or burns.*

Service

a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

Safety notes for using the grinder

General safety notes for grinding and cutting

a) **This power tool is to be used as a grinder and cutting-off machine. Observe all safety notes, instructions, illustrations and data provided with the device.** *Failure to observe the instructions provided below may result in electric shock, fire and/or serious injury.*

b) **This power tool is not suitable for sanding, working with wire brushes, or polishing.** *Use of the power tool for purposes for which it is not intended can result in risks and injuries.*

c) **Do not use any accessories which the manufacturer has not specifically designed and recommended for this power tool.** *Firmly attaching accessories to your power tool is no guarantee for safe use.*

d) **The permissible speed of the fitted tool must be at least as high as the maximum speed specified on the power tool.** *Accessories that rotate faster than permissible may break and be projected.*

e) **The fitted tool's outer diameter and thickness must comply with your power tool's measurements.** *Incorrectly dimensioned fitted tools can not be adequately shielded or controlled.*

f) **Fitted tools with threaded inserts must fit precisely onto the thread of the grinding spindle. For fitted tools installed using**

a flange, the hole diameter of the fitted tool must match the mounting diameter of the flange. *Fitted tools not firmly attached to the power tool will rotate unevenly, vibrate significantly and may result in a loss of control.*

g) **Do not use damaged fitted tools. Inspect the fitted tools before each use. For example, check grinding discs for cracks and chips, the sanding pads for cracks, wear and tear or excessive wear, and the wire brushes for loose or broken wires. If the power tool or fitted tool falls down, check whether it is damaged or use a fitted tool that is not damaged. If you have checked the fitted tool and fitted it, ensure that you and nearby persons are not in line with the rotating fitted tool and let the device run at full speed for one minute.** *In most cases, damaged fitted tools will break during this test period.*

h) **Wear personal protective gear. Depending on the application, wear full facial protection, eye protection or protective goggles. If appropriate, wear a dust mask, ear protection, protective gloves or a special apron to keep small grinding particles and other material particles away from you.** *Your eyes should be protected from floating debris produced in connection with different applications. The dust or protective breathing mask must filter out dust produced during the respective application. If you are exposed to excessive noise, you could suffer hearing loss.*

i) **Make sure that other persons are at a safe distance to your work area. Anyone entering the work area must wear personal protective gear.** *Fragments of the work piece or broken fitted tools could be projected and inflict injury both within and outside of the direct work area.*

j) **Only hold the power tool by the insulated handle surfaces when performing work where there is a risk of the fitted tool being used coming into contact with hidden power supply lines.** *Contact with a live wire may make exposed metal parts of the power tool live and could give the operator an electric shock.*

k) **Keep the mains cord away from rotating fitted tools.** *If you lose control of the device, the mains cord could be severed or get caught and your hand or arm could come into contact with the rotating fitted tool.*

l) **Never set the power tool down before the fitted tool has come to**

a complete stop. *The rotating fitted tool could come into contact with the surface of the base and you could lose control of the power tool.*

m) **Never allow the power tool to run while you are carrying it.** *Your clothing could accidentally come into contact with the rotating fitted tool and the fitted tool could be driven into your body.*

n) **Clean the vents of your power tool regularly.** *The motor fan will draw dust into the housing; if a large amount of metal dust accumulates, it could pose electrical hazards.*

o) **Do not store the power tool near flammable materials.** *Sparks could ignite these materials.*

p) **Do not use any fitted tools that require liquid coolants.** *Using water or other liquid coolants could cause an electrical shock.*

Special safety notes on the risk of kickback

Kickback is the sudden reaction caused by a rotating fitted tool (e.g. grinding disc, sanding pad, wire brush, etc.) getting caught on something or jamming. The rotating fitted tool shall come to an abrupt stop if it catches or jams. An uncontrolled power tool is thus propelled in the direction opposite of the rotation of the fitted tool at the point where it jams. If a grinding wheel catches or locks in the work piece, for example, the edge of the grinding wheel inserted in the work piece could catch causing the grinding wheel to break out or kick back. The grinding wheel will then jerk towards or away from the operator depending on the direction in which the wheel is rotating at the point where it jams. Grinding wheels can also break as a result.

A kickback is the result of wrong or improper use of the power tool. It can be prevented by taking suitable precautions like those described below.

a) **Hold the power tool firmly and position your body and arms so that you can control any kickback forces. Always use the supplementary handle to have the greatest degree of control over kickback forces or reaction torques during start-up.** *The operator can take suitable precautions to control kickback forces and reaction torques.*

b) **Never position your hand near rotating fitted tools.** *The fitted tool may move over your hand during kickback.*

c) **Avoid placing your body in the area where the power tool may recoil in the event of kickback.** *The kickback propels the power tool in the direction opposite the movement of the grinding/cutting disc at the point where it jams.*

d) **Be very cautious when working around corners, sharp edges,**

etc. Ensure that the fitted tools do not kick back from the workpiece and get jammed in it. *The rotating fitted tool tends to catch around corners, sharp edges or in the event of impacts. This will result in a loss of control or a kickback.*

e) **Do not use a chain saw blade or a serrated saw blade.** *Such fitted tools often cause kickback or a loss of control over the power tool.*

Special safety notes for grinding and cutting

a) **Use only grinding/cutting discs approved for your power tool and the protective cover provided for these grinding/cutting discs.** *Grinding/cutting discs not intended for the power tool cannot be adequately shielded and are dangerous.*

b) **Offset grinding/cutting discs must be installed so that their grinding surface does not stick out over the protective cover edge.** *An improperly installed grinding/cutting disc sticking out over the protective cover edge cannot be sufficiently covered.*

c) **The protective cover must be securely attached to the power tool and set to the highest level of safety so that the smallest part of the grinding tool openly faces the operator.** *The protective cover helps protect the operator from fragments, accidental contact with the grinding tool, and sparks that could ignite clothing.*

d) **Grinding tools may be used only for the recommended applications. For example: Never grind using the side of a cutting disc.** *Cutting discs are intended for removing material using the edge of the disc. Forces acting on the side of the grinding tool could shatter it.*

e) **Always use an undamaged clamping flange of the correct size and shape for the grinding/cutting disc of your choice.** *Suitable flanges support the grinding/cutting disc and reduce the risk of the grinding/cutting disc breaking. Cutting-disc flanges may differ from the flanges for other grinding discs.*

f) **Do not use worn grinding/cutting discs from larger power tools.** *Grinding/cutting discs for larger power tools are not designed to handle the higher speeds of smaller power tools and could break as a result.*

Additional special safety notes for cutting

a) **Avoid jamming the cutting disc or applying too much pressure to it. Do not perform any excessively deep cuts.** *Overloading the cutting disc will increase the stress on it and make it susceptible to*

canting or jamming, which could cause it to kick back or the grinding tool to break.

b) **Avoid the area in front of and behind the rotating cutting disc.** *If you move the cutting disc away from you in the workpiece, the power tool and rotating disc can be hurled directly towards you if kickback occurs.*

c) **If the cutting disc catches or if you stop working, switch off the device and hold it steady until the disc has come to a full stop. Never attempt to pull the cutting disc out of the cut while it is still rotating. Otherwise this could result in kickback.** *Determine and rectify the cause for it catching.*

d) **Do not switch the power tool back on while it is still in the work piece. First allow the cutting disc to reach its full speed before you carefully continue cutting with it.** *Otherwise, the disc could catch, jerk out of the workpiece or cause a kickback.*

e) **Support boards or large work pieces to rule out any risk of kickback caused by the cutting disc catching.** *Large workpieces could bend under their own weight. The workpiece must be supported on both sides of the disc, both near the separating cut and along the edge.*

f) **Be particularly careful when carrying out 'plunge cuts' in existing walls or other areas where you do not have a complete overview.** *The plunging cutting disc could cut into gas or water lines, electrical lines or other objects, resulting in kickback.*

Safety notes for grinding

a) Do not sand paints that contain lead. Determine whether the paint you intend to sand contains lead before beginning work. Dust from paints containing lead may cause lead poisoning.

b) A special test or a commercial painting contractor can determine whether a paint contains lead. If in doubt, you should wear a special dust mask to protect you from fine particles containing lead. Consult a specialist for information on suitable dust masks.

c) Grinding coats of paint containing lead and metals could produce hazardous or poisonous dust. Coming into contact or inhaling the dust may pose a risk to the operator or nearby persons. Wear suitable protective equipment to protect yourself and nearby persons from coming into contact or inhaling this dust. Normal dust masks do not provide proper protection.

d) Do not allow children or pregnant persons to enter the room or work area where you are sanding.

e) Do not eat, drink or smoke while working. Clean your hands before you eat, drink or smoke. Do not leave any food or beverages exposed as there is a risk of dust accumulating in them.

f) After sanding, thoroughly clean the surfaces of the work area.

Device-specific safety notes

Risk of injury!

Improperly handling the grinder may result in severe injury.

- A spindle lock is located on the top of the grinder. Never press the spindle lock while the fitted grinding/cutting disc is moving, even if you have already switched off the grinder and the grinding/cutting disc may still be running.
- Use only reinforced grinding/cutting discs and diamond cutting discs with the grinder.
- Use the disc guard only in the closed position when carrying out cutting work.
- Use the disc guard only in the open position when carrying out grinding work.

Preparation

Risk of injury!

Accidentally starting the grinder may result in severe injury.

– Always remove the battery from the grinder before you install/ remove accessories, etc. or before you carry out any other work on the grinder.

Checking the grinder and package contents

1. Remove the packaging material.
2. Check to make sure that all components and accessories have been received (see **Fig. A**).
3. Check for signs of damage to the grinder or its individual parts.
   If this is the case, do not use the grinder. Contact the manufacturer at the service address specified on the warranty card.

Familiarising yourself with the functional principle

The grinder is an electrically powered handheld device with a fast rotating round grinding/cutting disc that is driven by an angle gear system.

Using the battery

Risk of injury!

Incorrect use of the rechargeable battery and charger can cause injury.

– This grinder does not come supplied with a battery. Use only the batteries specified in the chapter ‘Technical data’ for the grinder. Do not operate the grinder with batteries from other manufacturers.

– Read and follow the instructions in the user manual for the battery pack and charger used.

Charging the rechargeable battery

– To charge the battery, follow the instructions described in the user manual for the battery pack and charger used.

Inserting and removing the rechargeable battery

– To insert the battery, press the battery release button on the battery and slide the battery into the battery holder 5 on the handle (see **Fig. A**).
The battery will audibly lock into place.
– To remove the battery, press the battery's release button and pull the battery out of the battery holder.

Installing the supplementary handle

WARNING!

Risk of injury!

Improperly handling the grinder may result in severe injury.

– The grinder may be operated with both hands only and with the supplementary handle installed.

The supplementary handle 6 can be attached to the front of the grinder at three different positions (see **Fig. C**):

- on the left side of the grinder;
- on the right side of the grinder;
- on the top of the grinder.

– Select the position where you would like to attach the supplementary handle.
– Screw the supplementary handle clockwise into the desired thread 2.

Fitting/changing the grinding/cutting disc

WARNING!

Risk of injury!

There is a risk of injury if you use damaged grinding/cutting discs or if the grinding/cutting disc is improperly installed.

– Check the grinding/cutting disc for any possible damage (e.g. cracks and wear) before installing it. Never use a damaged or worn grinding/cutting disc.

- Pay attention to the direction in which the grinding/cutting disc rotates.
- Always use suitable protective gloves when handling the grinding/cutting disc.

Removing the fitted grinding/cutting disc

1. Switch the grinder off and remove the battery from the battery holder 5.
2. Attach the spanner 8 to the clamping flange 9 from below so that the spanner fits into the clamping flange's holes (see **Fig. C**).
3. Hold the spindle lock 1 down and use the spanner to loosen the clamping flange's screw connection by turning it anti-clockwise.
4. Completely unscrew the clamping flange from the spindle.
5. Remove the fitted grinding/cutting disc 14 from the spindle.

Fitting the grinding/cutting disc

1. Ensure that the grinder is turned off and that the battery is not in the battery holder.
2. If necessary, insert the support flange 10 or align it correctly if the support flange has been previously removed or incorrectly positioned (see **Fig. C**).
   To do this, guide the support flange over the spindle 11 as far as it will go and align it with the spindle so that the side edges on the top of the flange fit into the corresponding notches of the spindle.
3. Check that the support flange is placed properly on the spindle:
   - The support flange must be locked securely in place on the spindle.
   - The spindle should also turn when the support flange is turned.
4. Put the desired grinding/cutting disc 14 on the spindle.
   Please note that the direction of the grinding/cutting disc depends on what type of disc is used.
   Therefore, please pay attention to the grinding/cutting disc's direction shown in **Fig. D** in this user manual as well as to the information from the grinding/cutting disc manufacturer.
5. Place the clamping flange 9 on the spindle in the correct alignment. Please note that the direction of the clamping flange depends on what type of disc is used. Please therefore pay attention to the clamping flange's direction shown in **Fig. D** in this user manual.
6. Screw the clamping flange onto the spindle in a clockwise direction.
7. Attach the spanner 8 to the clamping flange from below so that the spanner fits into the clamping flange's holes (see **Fig. C**).

8. Hold the spindle lock 1 down and use the spanner to tighten the clamping flange's screw connection by turning it clockwise.
9. Ensure that the grinding/cutting disc is correctly, securely and firmly attached to the spindle. To do this, turn the grinding/cutting disc by hand and ensure that the grinding/cutting disc is properly secured and rotates. The grinding/cutting disc must not wobble.

Adjusting and changing the disc guard

WARNING!

Risk of injury!

There is a risk of injury if you improperly install or align the disc guard.

- Use the disc guard 7b only in the closed position when carrying out cutting work.
- Use the disc guard 7a only in the open position when carrying out grinding work.
- Always position the disc guard such that the closed side of the disc guard faces the operator, to protect the operator from sparks and abrasion.

Adjusting the disc guard

The grinder is delivered with the disc guard for rough machining already installed.

Follow the steps described below if you want to change the disc guard's position 7a or 7b adjust it to the respective working conditions:

1. Switch the grinder off and remove the battery from the battery holder 5.
2. Completely open the fastening clamp 12 on the installed disc guard (see **Fig. B**). Pull back the lever of the fastening clamp on the neck of the disc guard and remove the fastening clamp from the hook on the disc guard.
3. Turn the disc guard clockwise or anti-clockwise on the holder 13 on the grinder in order to correctly position the disc guard.
4. When the disc guard is in the desired position, again guide the fastening clamp over the hook on the disc guard.

5. Firmly attach the disc guard to the holder.
   To do this, move the lever of the fastening clamp towards the disc guard until it touches the neck of the disc guard.
6. Ensure that the disc guard is firmly attached and cannot be turned when on the holder.

Changing the disc guard

Follow the steps described below if you wish to replace the installed disc guard 7a with the disc guard 7b :

1. Switch the grinder off and remove the battery from the battery holder 5.
2. Remove the clamping flange 9, the grinding/cutting disc 14 and the support flange 10 from the spindle 11 as described in section 'Removing the installed grinding/cutting disc'.
3. Completely open the fastening clamp 12 on the installed disc guard (see **Fig. B**). Pull back the lever of the fastening clamp on the neck of the disc guard and remove the fastening clamp from the hook on the disc guard.
4. Turn the disc guard clockwise or anti-clockwise on the holder on the grinder to align the disc guard until the catches on the inside of the disc guard are positioned above the corresponding notches on the holder.
5. Pull the disc guard downwards off the holder 13 on the grinder.
6. From below, put the new disc guard with an opened fastening clamp onto the holder so that the catches on the inside of the disc guard are positioned above the corresponding notches on the holder.
7. Push the disc guard as far as possible into its position on the holder.
8. Align the disc guard, and when the disc guard is in the desired position, again put the fastening clamp over the hook of the disc guard.
9. Firmly attach the disc guard to the holder.
   To do this, move the lever of the fastening clamp towards the disc guard until it touches the neck of the disc guard.
10. Ensure that the disc guard is firmly attached and cannot be turned when on the holder.
11. Reattach the clamping flange, the grinding/cutting disc and the support flange to the spindle as described in section 'Fitting the grinding/cutting disc'.

Approved grinding/cutting discs

Risk of injury!

There is a risk of injury if you try to install the unsuitable grinding/cutting discs or if you use the grinder with incorrect grinding/cutting discs.

- Never install grinding/cutting discs that are not suited for the grinder.
- Use only the grinding discs, cutting discs and diamond cutting discs provided for in the user manual.
- Please observe the information provided by the manufacturer for the grinding/cutting disc used. The permissible speed of the grinding/cutting disc must be greater than the idle speed of the grinder.
- Do not use cutting discs for rough grinding and deburring.

The permissible speed (rpm) of the grinding/cutting disc must at least correspond to the information on the grinder's idle speed or must be labelled with a circumferential speed of 80 m/s.

- When selecting the grinding/cutting disc, ensure that the grinding/cutting disc is suitable for your grinder by observing the information provided on the grinding/cutting disc's label about the permissible speed or circumferential speed.

Grinding disc dimensions:

- Diameter: 125 mm
- Intensity: max. 4–6 mm
- Mounting hole: 22.23 mm

Cutting disc dimensions:

- Diameter: 125 mm
- Intensity: max. 3.0 mm
- Mounting hole: 22.23 mm

Cutting disc dimensions for segmented or turbo-diamond cutting discs for dry use:

- Diameter: 125 mm
- Intensity: max. 3.0 mm
- Mounting hole: 22.23 mm

Operation

WARNING!

Risk of injury!

Improper handling may pose a risk of injury.

- WARNING! Lay down the grinder only once the spindle has come to a complete stop.
- WARNING! Carry out a test run before each use and after each tool change. Always ensure that the grinding/cutting discs are in perfect condition, properly installed and can freely rotate. The test run should last at least one minute.

Using the grinder

Please note that the On/Off switch does not automatically lock when in the front position:
If the On/Off switch won't lock in the forward position as described below, the On/Off switch will slide back when released and the grinder will turn off.

Switching the grinder on

1. Hold on tightly to the grinder with both hands by firmly wrapping one hand around the handle surface 4 and one hand around the supplementary handle 6 (see **Fig. A**).
2. Hold down the rear part of the On/Off switch 3 and slide the On/Off switch forward towards the disc guard 7a or 7b to turn on the grinder.
3. To keep the On/Off switch in this switch position, hold the On/Off switch pushed forward and tilt the front part of the On/Off switch downwards so that it slips into the slot provided on the grinder and the On/Off switch locks into place.

Carrying out work with the grinder

4. Use the grinder to carry out the intended work.
   Please observe the information provided in the chapter 'Operating instructions' when carrying out work.

Switching the grinder off

5. Hold down the rear part of the On/Off switch so that the front part of the On/Off switch exits the locked switch position.

Start-up protection

When the battery is inside the grinder and the On/Off switch 3 is in the front switch position, start-up protection shall prevent the angle grinder from starting.

– In this case, first switch off the On/Off switch, as described in the chapter 'Using the grinder'.

  You can then continue to use the grinder as usual.

Operating instructions

WARNING!

Risk of damage to health!

Improper use may result in injury.

– WARNING! Never process material containing asbestos.

NOTICE!

Risk of damage!

Improper use of the grinder may damage the grinder.

– The grinder is not designed to be used with water. Do not wet-cut with the grinder.

General operating instructions

– Always use the correct disc and disc cover for the desired work (rough machining/cutting) and materials to be machined (metal/stone material).
– Ensure you have a stable work surface on which to machine the workpiece.
– Check the direction of rotation and function.
– Maintain the maximum distance between the device and operator.
– Avoid banging the workpiece.

Special instructions for cutting

– Apply light pressure only to the cutting disc.
– Do not subject the cutting disc to any lateral forces.
– Adjust the feed motion to the material.
– Push the grinder in the opposite direction (see **Fig. E**) and at a 90° angle to the workpiece.

Special instructions for rough machining

- Always work at an angle of 30° to 40° to the workpiece.
- Apply moderate pressure and move the grinder back and forth.

After use

1. Switch the grinder on as described in the chapter 'Using the grinder'.
2. Remove the battery from the battery holder 5.
3. Allow the grinder to cool completely.
4. If necessary, remove the fitted tool.

Cleaning and maintenance

Risk of injury!

Accidentally starting the grinder may result in severe injury.

- Always remove the battery from the grinder before cleaning and carrying out maintenance on the grinder.

Risk of burns!

Some of the tools get hot during operation and you could burn yourself.

- Let the grinder and the fitted grinding/cutting disc cool down completely before cleaning.

NOTICE!

Risk of damage!

Improper cleaning may damage the grinder.

- Do not use any aggressive cleaners, brushes with metal or nylon bristles, or sharp or metallic cleaning utensils such as knives, hard scrapers and the like. They could damage the surfaces.
- Ensure that no water or other liquids penetrate the housing of the grinder.

Cleaning the grinder

1. Switch the grinder off and remove the battery from the battery holder 5 (see **Fig. A**).
2. Wipe the housing of the grinder with a clean, lightly moistened cloth.
3. Clean the contacts of the rechargeable battery and the grinder with a dry, clean cloth.
4. Then dry the grinder thoroughly and let it dry completely for a while. You do not have to lubricate the grinder.
5. Clean the contacts of the battery holder with a dry, clean cloth.

Checking the grinder

Check the condition of the grinder regularly. Among other things, check to make sure:

- that the On/Off switch 3 is not damaged,
- that the fitted tool is in proper condition,
- that the battery holder 5 and all connection contacts on the grinder are clean,

If you identify any damage, you must have it repaired by a specialist workshop to prevent risks.

Storage and transport

NOTICE!

Risk of damage!

Improper storage or transport of the grinder could damage the grinder.

- Store and transport the grinder in a clean, dry and frost-free location.
- Protect the grinder against vibrations and shocks during transport.

1. Clean the grinder thoroughly before storing it (see chapter 'Cleaning and maintenance').
2. Ensure that the grinder and the accessories are completely dry.
3. Store the grinder in a dry place, out of reach of children, securely locked away and at a temperature of between 5°C and 20°C (room temperature). Protect the grinder against direct sunlight.

Technical data

Grinder information

Article number:	97663
Model:	FAW 40-I
Model number:	5420073/5420074
Motor:	40 V ⎓
Rated speed:	8,500 rpm
Disc size:	ø 125 mm
Connection thread:	M14

Rechargeable battery and charger information

Use the product only with Activ Energy® batteries and chargers with the following technical specifications:

Suitable for Activ Energy®

Battery type:	20 V ⎓(×2)/ 90 Wh/ Li-Ion
Models:	AEB 2040-2.5I / AEB 2040-2.5N XYZ562
Charging time:	20 V ⎓(×2)/ 90 Wh = approx. 95 min.
Charger type:	21 V ⎓/ 4.0 A
Models:	AEC 20-4.0Ia / AEC 20-4.0Ic / AEC 20-4.0Na XYZ563

Please see the technical specifications for the battery and charger

Noise/vibration information

WARNING!

Health hazard!

Working without wearing hearing protection or protective clothing can lead to health problems.

– Wear ear protection and suitable protective clothing when working with the device.

Measured pursuant to DIN EN 60745-1/-2-3. The noise at your workplace may exceed 85 dB(A); protective measures are necessary in this case (wear suitable ear protection).

Noise emission:

- Sound pressure level L_{pA} 83 dB(A)
- Sound power level L_{wA} 94 dB(A)
- Uncertainty K 3 dB(A)

The aforementioned values are noise-emission values and therefore do not necessarily represent safe values for the workplace. The correlation between emission and emission levels cannot reliably provide for a conclusion as to whether additional cautionary measures are necessary or not.

Factors that could affect the respective emission level present at the workplace involve the specification of the work area, the surrounding area, the duration of exposure, other noise sources etc.

You must also observe any divergences in national regulations with respect to the permissible workplace levels. The aforementioned information does, however, allow the user to better assess dangers and risks.

Hand/arm vibration:

Operation (Sanding)

- Main handle a_h 4.2 m/s²
- Supplementary handle a_h 3.7 m/s²
- Uncertainty K 1.5 m/s²

WARNING!

The aforementioned vibration emission level (vibration value) has been measured in accordance with a test method standardised in DIN EN 60745-1/-2-3 and can be used to compare one power tool to another. It is also suited for preliminary estimation of loading due to vibration. The actual vibration emission value can, as described below, differ by type of application:

- the condition of the grinder and proper maintenance of it;
- the type of material and use of the grinder;
- use of the right accessories and whether they are in good condition;
- a firm grip of the grinder by the operator;
- proper use of the grinder as described in this user manual.

Improper use of the grinder can cause vibration-related ailments.

WARNING!

Depending on how the tool is used and the operating conditions, the following safety precautions must be taken to protect the user:

- Avoid exposure to vibrations as much as possible.
- Only use accessories in perfect working order.
- Wear anti-vibration gloves when using the grinder.
- Follow the user manual on care and maintenance of the grinder.
- Avoid using the grinder at temperatures below 10°C.
- Plan your work steps so as not to use the highly vibrating grinder over several consecutive days.

Disposal

Disposing of the packaging

Dispose of the packaging separated into single type materials. Dispose of paperboard and cardboard with waste paper and plastics with recyclable waste.

Disposing of the grinder

- Dispose of the grinder in accordance with the regulations in your country.
- Please note that the used battery must be disposed of separately.
  Please observe the information described in the user manual for the battery used.

Old devices must not be disposed of with household waste!
This symbol indicates that this product must not be disposed of together with domestic waste in compliance with the Directive (2012/19/EU) pertaining to waste electrical and electronic equipment (WEEE). This product must be handed in at a collection point intended for the purpose. This can occur, for example, by handing it in at an authorised collecting point for the recycling of waste electrical and electronic equipment. Owing to potentially hazardous substances that are frequently contained in waste electronic equipment, incorrect handling of waste equipment may have a negative impact on the environment and on the health of human beings. By disposing of this product correctly, you are also contributing towards an efficient use of natural resources. Information on collecting points for waste equipment can be obtained from your municipal authorities, the public law disposal authorities, an authorised institution for the disposal of waste electrical and electronic equipment or the waste collection services.

Service notes

- Store the grinder, the user manual and, if applicable, the accessories in the storage case.
- FERREX® devices are largely maintenance-free. For notes on cleaning and maintenance, refer to the chapter “Cleaning and maintenance”.
- FERREX® devices undergo strict quality controls. If, however, the functioning of the device is disrupted, send the grinder to the manufacturer as described in the chapter ‘Checking the grinder and package contents’.
- Provide a brief written description to shorten the troubleshooting process and repair time. During the warranty period, keep the warranty card and the proof of purchase with the grinder.
- If the repair is not covered by warranty, you will be billed for the repair costs.
- **IMPORTANT! Opening the grinder voids your warranty claim!**
- **IMPORTANT! You are expressly advised that, pursuant to the German Product Liability Act, the manufacturer is not required to assume responsibility for damages caused by the grinder of the manufacturer if this is attributed to improper repair or the use of replacement parts which are not original parts from or parts approved by the manufacturer and the repair was not performed by the customer service team of Conmetall Meister GmbH or an authorised professional with corresponding qualifications! The same applies to the accessory parts.**
- To prevent damage during transport, securely pack the grinder or use the storage case.
- The manufacturer also guarantees the affordable performance of all repairs to FERREX® appliances that become necessary after the expiration of the warranty period.

Declaration of Conformity

GB IE

Conmetall Meister GmbH
Oberkamper Straße 37 - 39
42349 Wuppertal
Germany

CE

EC Declaration of Conformity

We declare with sole responsibility, that the product listed below …	40 V LI-ION CORDLESS ANGLE GRINDER FAW 40-I
FERREX®	5420073 / 5420074 • 97663 • 05/2019
… meets all of the requirements of the listed directives.	2011/65/EU (RoHS) 2006/42/EC (MD) 2014/30/EU (EMC)
Applied, harmonized standards:	EN 60745-1:2009+A11:2010 EN 60745-2-3:2011+A2:2013+A11:2014+A12:2014+A13:2015 EN 55014-1:2006+A1:2009+A2:2011 EN 55014-2:2015 EN 50581:2012

Wuppertal,…….15.10.2018

Ingo Heimann (M.Sc.)
Technical direction/Product development
Conmetall Meister GmbH · Oberkamper Straße 37 - 39 · 42349 Wuppertal · Germany
Authorized person for storing the technical documentation.

Great care has gone into the manufacture of this product and it should therefore provide you with years of good service when used properly.
In the event of product failure within its intended use over the course of the first 3 years after date of purchase, we will remedy the problem as quickly as possible once it has been brought to our attention. In the unlikely event of such an occurrence, or if you require any information about the product, please contact us via our helpline support services, details of which are to be found both in this manual and on the product itself.

GB IE

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MODEL:
FAW 40-I / 5420073/5420074 05/2019

3 YEAR WARRANTY