



Fein AMM500 Plus 18V StarlockPlus MultiMaster Multi-Tool Instruction Manual

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Fein AMM500 Plus 18V Star lock Plus Multi Master Multi-Tool












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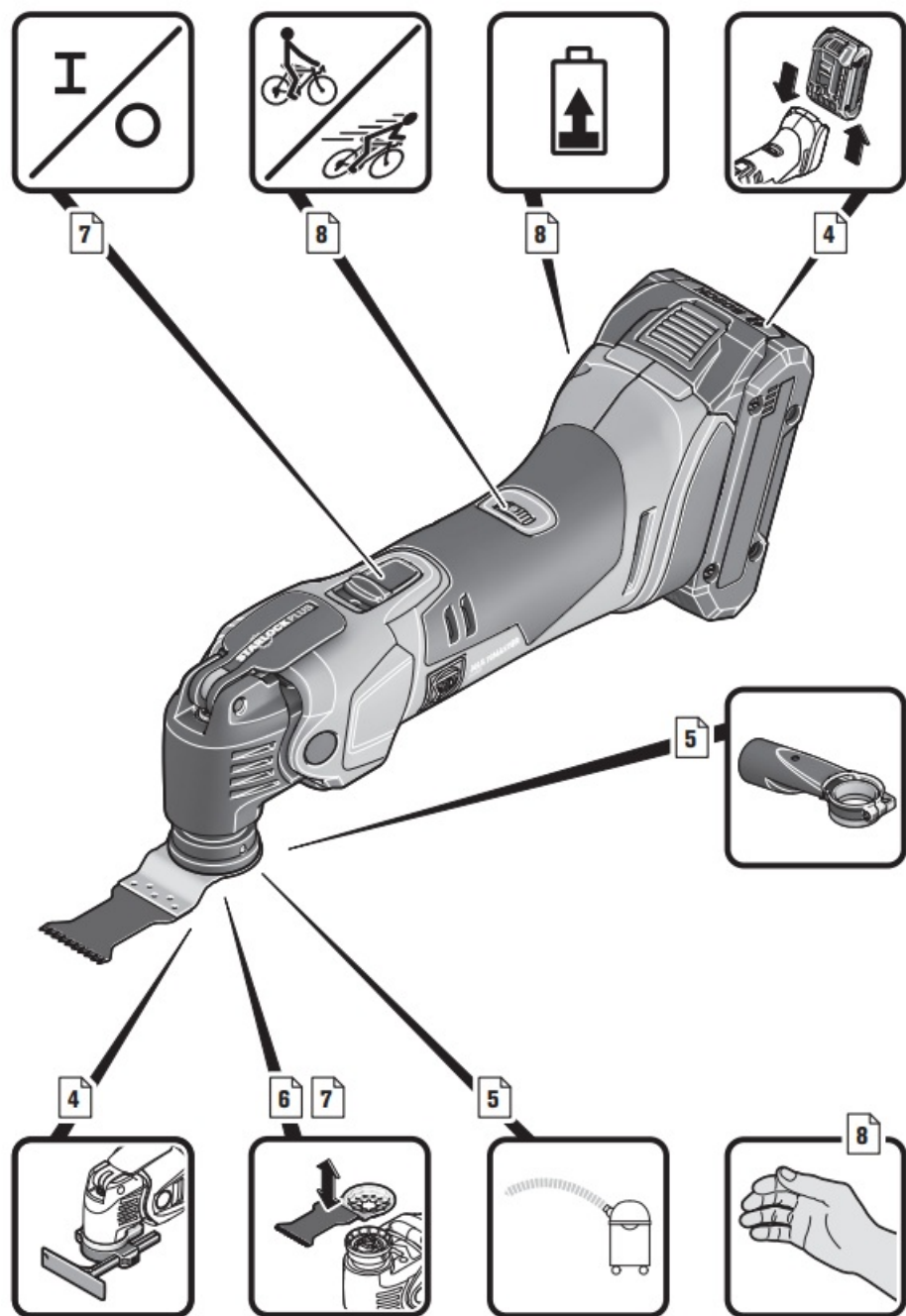
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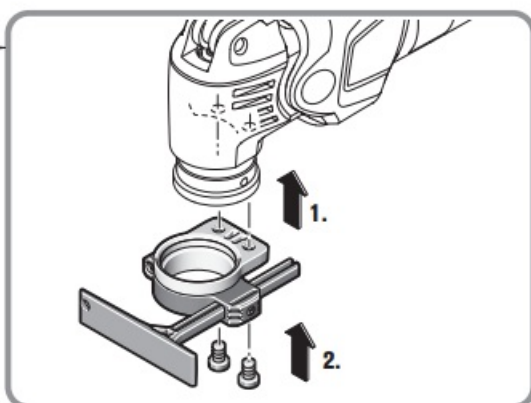
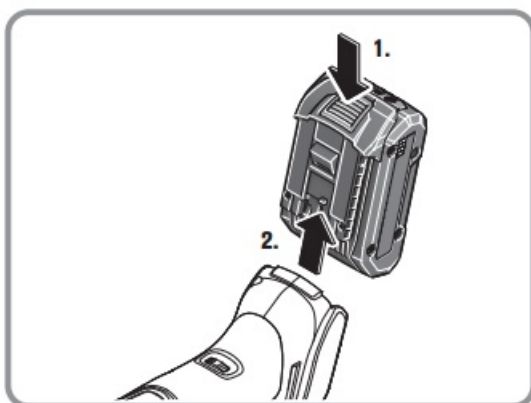
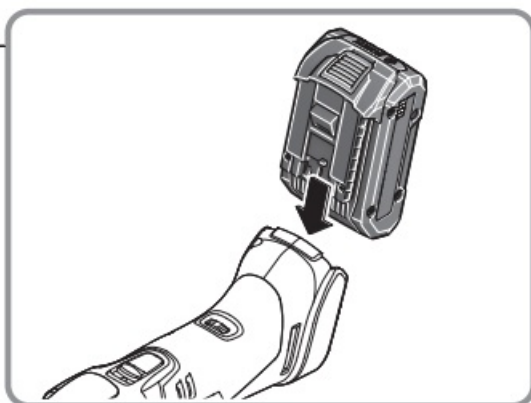
Technical Data

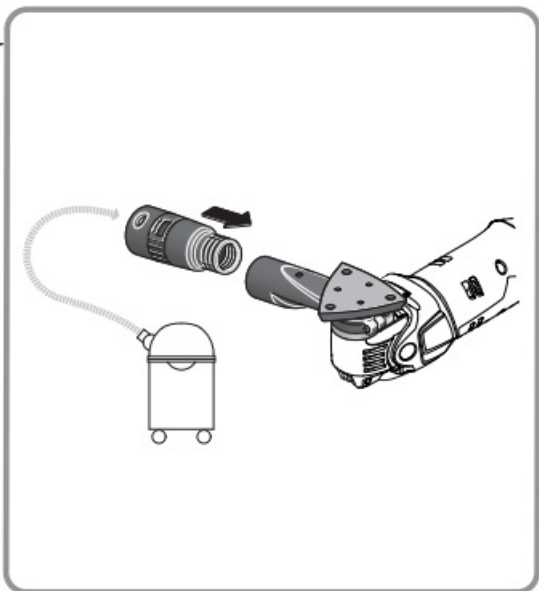
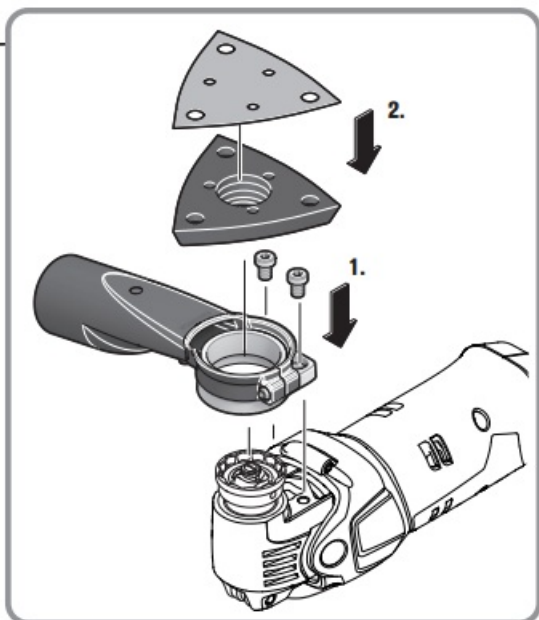
AMM500 PLUS AS (**)		
		7 129 ...
U	$V_{\text{---}}$	18
n_s	/min, min ⁻¹ , rpm, r/min	11 000 – 18 500
	°	2 x 1.7
	kg	1,3
L_{pA}	dB	78,2
K_{pA}	dB	3,0
L_{WA}	dB	86,2
K_{WA}	dB	3,0
L_{pCpeak}	dB	90,6
K_{pCpeak}	dB	3,0

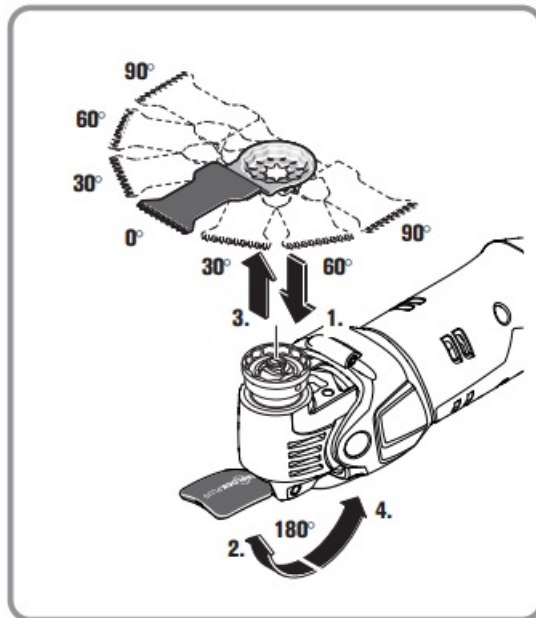
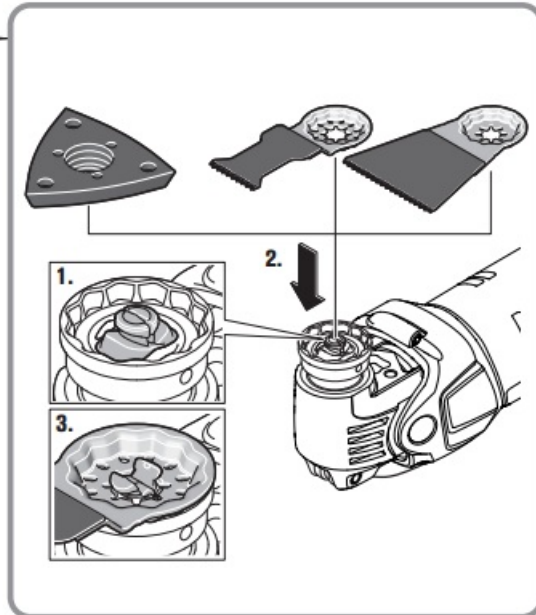
		GBA 18V 2 Ah	GBA 18V 4 Ah	GBA 18V 5 Ah	ProCORE 18V 4 Ah
 <small>Powered by</small>  BOSCH					
		Lithium Ion	Lithium Ion	Lithium Ion	Lithium Ion
U	$V_{\text{---}}$	18	18	18	18
	kg	0,35	0,60	0,60	0,52
		GAL 1880 CV, GAL 18V-160			

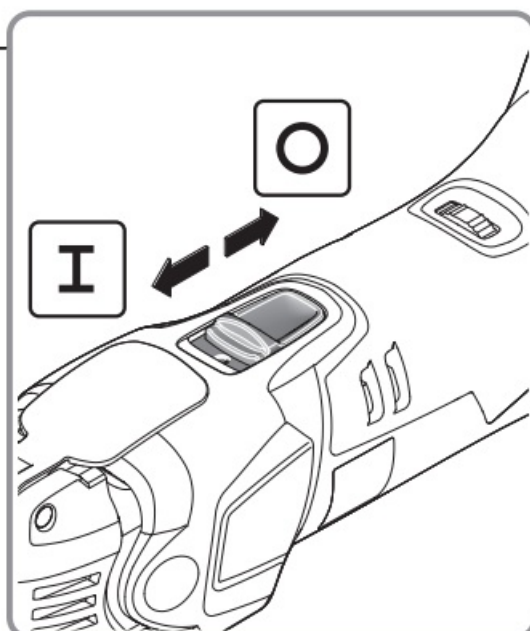
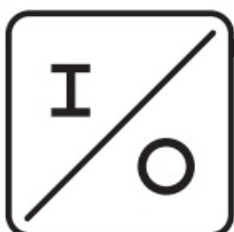
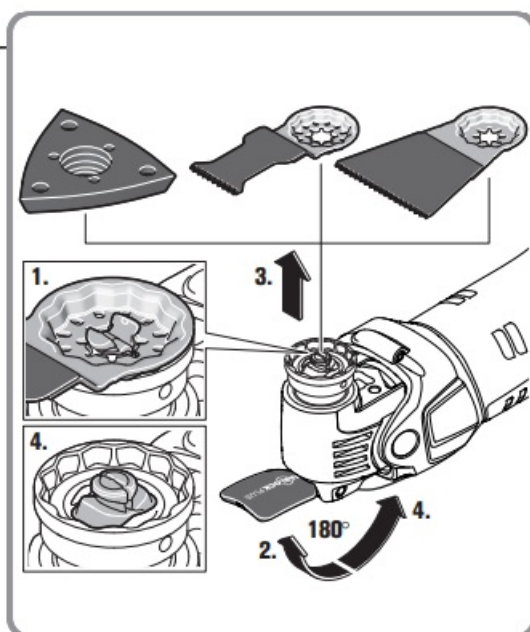
Figures

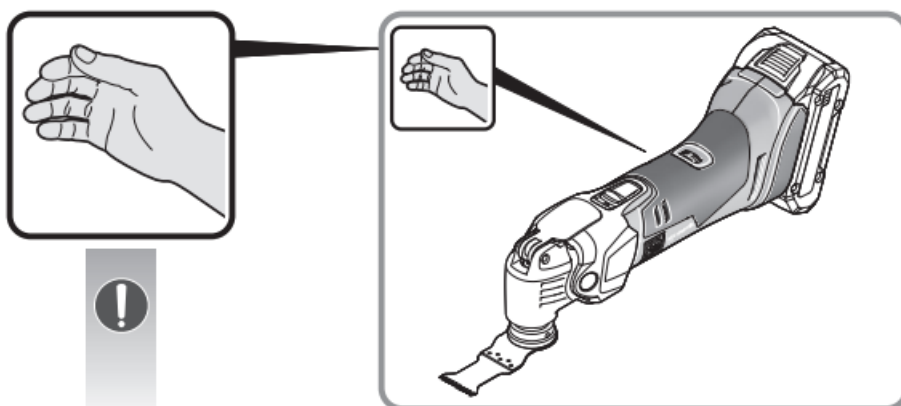
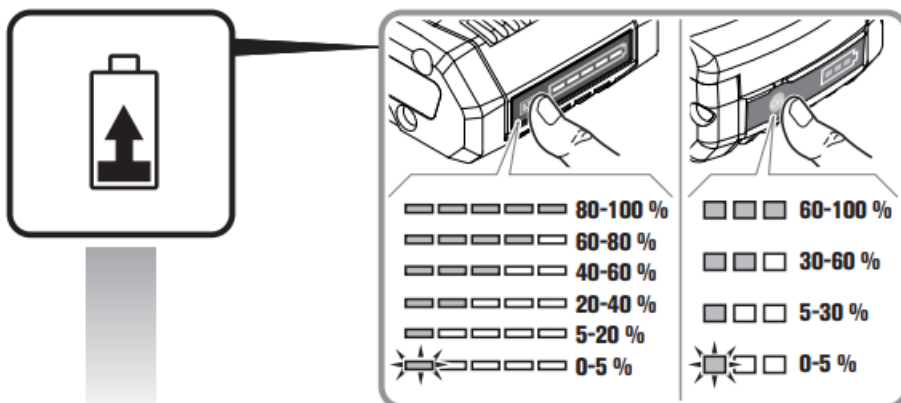
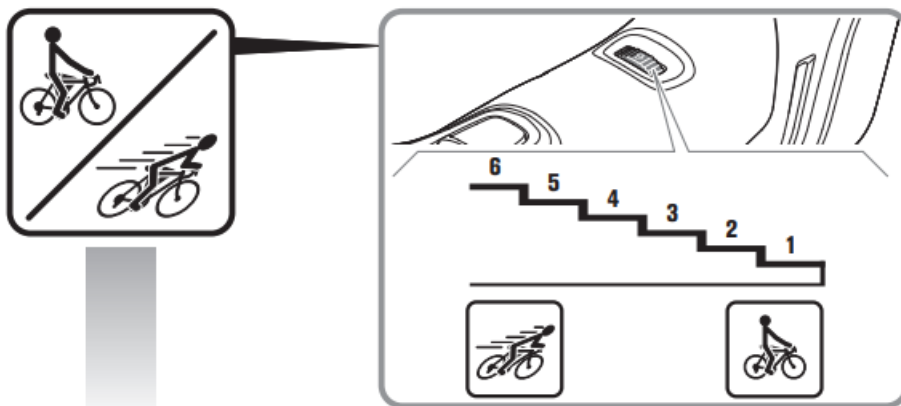




















Symbols, Abbreviations and Terms Used

Symbol, character	Explanation
	Make sure to read the enclosed documents such as the Instruction Manual and the General Safety Instructions.
	Do not touch the saw blade. Danger of sharp application tools moving back and forth.

	<p>Warning against sharp edges of application tools, such as the cutting edges of the cutter blades.</p>
	<p>AMP Share is the shared battery system that lets you run many tools from many pro brands on just one battery.</p>
	<p>Observe the instructions in the text or graphic opposite!</p>
	<p>General prohibition sign. This action is prohibited.</p>
	<p>Before commencing this working step, remove the battery from the power tool. Otherwise there may be danger of injury caused by unintentional starting of the power tool.</p>
	<p>Use eye protection during operation.</p>
	<p>Use ear protection during operation.</p>
	<p>Use a dust mask during operation.</p>



Use protective gloves during operation.



Gripping surface



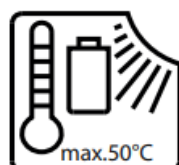
Additional information.



Do not charge damaged batteries.










Keep the battery away from fire. Protect the battery against heat, e. g. against continuous intense sunlight.



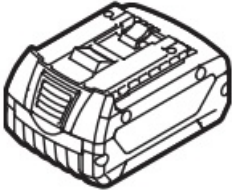
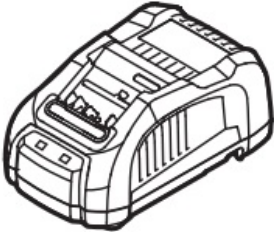





Protect the battery against heat, e.g., against continuous intense sunlight, fire, debris, water, and moisture.

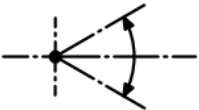





Observe the information in the adjacent text!

	<p>Switching on</p>
	<p>Switching off</p>
	<p>Confirms the conformity of the power tool with the directives of the European Community.</p>
	<p>Confirms the conformity of the power tool with the directives of Great Britain (England, Wales, Scotland).</p>
	<p>This symbol confirms the certification of this product for the USA and Canada.</p>
	<p>Applies only for China: The duration of environmental protection under normal use of the product is 10 years.</p>
	<p>This sign indicates a possible dangerous situation that could cause severe or fatal injury.</p>

	Recycling symbol: designates recyclable materials
	Worn out power tools and other electrotechnical and electrical products should be sorted separately for environmental-friendly recycling.
	Battery type
	Charger type
	Low oscillation rate
	High oscillation rate
	Maximal allowed oscillation rate

(***)	May contain numbers and letters
(Ax – Zx)	Marking for internal purposes

Characters	Unit of measurement, international	Unit of measurement, national	Explanation
<i>U</i>	V	V	Rated voltage
<i>nS</i>	/min, min ⁻¹ , rpm, r/min	/min	Rated oscillation rate
	°	°	Oscillation angle
	kg	kg	Weight according to EPTA-Procedure 01
	kg	kg	Weight of the power tool without battery and application tool
	kg	kg	Weight of the battery
<i>L_{pA}</i>	dB	dB	Sound pressure level
<i>L_{wA}</i>	dB	dB	Sound power level
<i>L_{pCpeak}</i>	dB	dB	Peak sound pressure level

K...			Uncertainty
	m/s ²	m/s ²	Vibrational emission value according to EN 628 41 (vector sum of three directions)
	m, s, kg, A, mm, V, W, Hz, N, °C, dB, min, m/s ²	m, s, kg, A, mm, V, W, Hz, N, °C, dB, min, m/s ²	Basic and derived units of measurement from the international system of units SI .

For your safety.

WARNING

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.



Do not use this power tool before you have thoroughly read and completely understood this Instruction Manual and the enclosed "General Safety Instructions" (document number 3 41 30 465 06 0). The documents mentioned should be kept for later use and enclosed with the power tool, should it be passed on or sold. Please also observe the relevant national industrial safety regulations.

Intended use of the power tool

Hand-guided oscillator for sanding small surfaces, corners and edges, for sawing thin parts of steel sheet, wood and plastic, for scraping, polishing, rasping, cutting and separating without water in weather-protected environments, using the application tools and accessories recommended by FEIN.

In environments subject to interference, a reduction of the operating quality is possible; this can include temporary failure, temporary reduction of the function or the intended operating behavior, for the correction of which intervention by the operator is required.

Special safety instructions

Hold power tool by insulated gripping surfaces only, because the cutting tool could cut into the machine's power cord. Contact with a "live" wire make exposed metal parts of tool "live" and shock the operator.

Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.

Do not use accessories which are not specifically designed and recommended by the power tool manufacturer.

Safe operation is not ensured merely because an accessory fits your power tool.

Grasp the power tool in such a safe manner that your body never comes into contact with the application tool, especially while working with application tools such as saw blades or other blades pointed toward the grasping range. Touching sharp tips or cutting edges can lead to injuries.

Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses.

Where appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

Do not direct the power tool against yourself, other persons or animals. Danger of injury from sharp or hot application tools.

Do not rivet or screw any name-plates or signs onto the power tool. If the insulation is damaged, protection against an electric shock will be ineffective.

Clean the ventilation openings on the power tool at regular intervals using non-metal tools. The blower of the motor draws dust into the housing. An excessive accumulation of metallic dust can cause an electrical hazard. After working gypsum-containing materials: Blow out the ventilation openings of the power tool and the switch element with dry and oil-free compressed air. Otherwise, gypsum-containing dust can settle in the power tool housing and switch element, which can harden in connection with humidity. This can impair the switching mechanism.

Use and handling of the battery (battery pack)

These safety warnings apply only for 18V FEIN AMPShare Li-ion batteries.

Use the battery only in AMPShare partner products. 18V batteries marked with AMPShare are fully compatible with the following products:

- All products of the FEIN-18V-AMPShare system
- All 18V products from AMPShare partners.

When working with and charging incorrect, damaged, repaired or reconditioned batteries, imitations or other brands, there is danger of fire and/or explosion. Observe the battery recommendations in the operating instructions for your product. Only in this way can the battery and the product be operated safely, and the batteries are protected from dangerous overload.

Only charge the batteries with chargers recommended by FEIN or one of the AMPShare partners. A charger that is suitable one type of battery pack may create a risk of fire when used with another battery pack. The battery is supplied partially charged. To ensure full battery capacity, completely charge the battery in the battery charger before using for the first time.

Store batteries out of the reach of children.

Batteries must not be disassembled, opened or reduced in size. Do not subject batteries to mechanical impact or shock. Hazardous vapours and fluid can escape in case of damage and improper use of the battery. The vapours can irritate the respiratory system. Liquid ejected from the battery may cause skin irritations or burns.

In case of skin contact with battery fluid, rinse immediately with plenty of water. In case of eye contact with battery fluid, wash out the eye with clean water and immediately seek a doctor for treatment!

When the battery fluid has come into contact with objects close by, check the respective components. Avoid skin contact by wearing protective gloves. Clean the parts with dry household paper or replace the parts if necessary. Escaping vapours can irritate the respiratory system. Liquid ejected from the battery may cause skin irritations or burns.

Do not short-circuit the battery. Keep the battery not being used away from paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire. The battery can be damaged by sharp objects such as nails or screwdrivers or by external force. An internal short-circuit may occur and the battery can burn, smoke, explode or overheat.

Never maintain damaged batteries. Any maintenance of batteries should be performed only by the manufacturer or by authorized after-sales service centers.



Protect the battery against heat, e.g., against continuous intense sunlight, fire, debris, water, and moisture. Danger of explosion and short circuiting.

Operate and store the battery only at ambient temperatures between -20 °C and +50 °C. As an example, do not leave the battery in a vehicle in summer. At temperatures < 0 °C, machine-specific performance restrictions are possible.

Charge the battery only at ambient temperatures between 0 °C and +35 °C. Charge the battery via USB connection only at ambient temperatures between +10 °C and +35 °C. Charging the battery outside the

temperature range may damage the battery or increase the risk of fire.

Handle discharged batteries with care. Batteries are a source of danger, as they can cause a very high short circuit current. Even when Li-ion batteries appear to be in a discharged state, they never fully discharge.

Do not immerse the battery in liquids, such as (salt) water or beverages. Contact with liquids can damage the battery. This may result in heat build-up, smoke generation, ignition or explosion of the battery. Do not continue to use the battery and contact an after-sales service authorized by FEIN.

Do not use a damaged battery. The use of a battery must be stopped immediately as soon as abnormal properties, such as odour development, heat, discoloration or deformation occur. Continued operation can cause the battery to generate heat and smoke, ignite or explode.

Do not open, crush, overheat or set fire to the battery. Non-observance of this warning may result in burns and fire. Follow the manufacturer's instructions. Extinguish burning Li-ion batteries with water, sand or a fire blanket. Avoid physical blows/impact. Impact and penetration of objects can damage batteries. This may result in leakage, heat build-up, smoke generation, ignition or explosion of the battery.

Never charge the battery unattended overnight. Fire and explosion hazards can result in case of non-observance. Do not remove the battery from its original packaging until it is going to be used.

Remove the battery only when the power tool is switched off.

Before any work on the machine itself, remove the battery from the power tool. If the power tool accidentally starts, there is danger of injury.

Protect the battery against moisture and water. Clean contaminated battery terminals and power tool connections with a dry, clean cloth.

Remove the battery when transporting and storing the power tool.

Observe the safety instructions in the manuals of the chargers from FEIN or the AMPShare partners.

Handling hazardous dusts For work procedures with this power tool where material is removed, dusts develop that can be hazardous to one's health.

Contact with or inhaling some dust types, e. g. asbestos and asbestos-containing materials, lead-containing coatings, metal, some wood types, minerals, silicate particles from materials containing stone, paint solvents, wood preservatives, antifouling paints for vessels, can trigger allergic reactions to the operator or bystanders and/or lead to respiratory infections, cancer, birth defects or other reproductive harm. The risk from inhaling dusts depends on the exposition. Use dust extraction matched appropriately for the developing dust, as well as personal protective equipment and provide for good ventilation of the workplace. Leave the processing of asbestos-containing materials to specialists.

Wood and light-metal dust, hot mixtures of grinding dust and chemical materials can self-ignite under unfavourable conditions or cause an explosion. Avoid sparking in the direction of the dust collector as well as overheating of the power tool and the materials being sanded, empty the dust collector/container in time, observe the material manufacturer's working instructions, as well as the relevant regulations in your country for the materials being worked.

Hand/arm vibrations

The vibration emission level given in this information sheet has been measured in accordance with a standardized test given in EN 62841 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure. The declared vibration emission level represents the main applications of the tool. However, if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period. An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period. Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organization of work patterns.


Emission values for vibration


Vibration	<i>a</i>
Classification according to per formance class	Weighted acceleration*
STARLOCK	3.6 m/s ²
STARLOCK PLUS	7.0 m/s ²
<i>Ka</i>	1.5 m/s ²
* These values are based on a no-load measurement with maximum speed stage (6). In each case, the application tool corresponds to the highest mass inertia of its performance class.	

Operating Instructions



Do not use accessories not specifically intended and recommended for this power tool by FEIN. The use of non-original FEIN accessories can lead to overheating of the power tool and destroy it.

Changing the tool (see pages 6/7).

 Do not switch the power tool on while the clamping lever is open. Otherwise there is danger of crushes or contusions to the hand and fingers.

 Do not reach into the area of the clamping jaws. Otherwise there is danger of crushes or contusions to the fingers.


Charge-control Indicator on the Battery (see page 8).

The charge condition can be indicated by the green LEDs of the charge-control indicator on the battery. Press the charge-control indicator button  or  to indicate the charge condition. When no LED lights up after pressing the charge-control indicator button, the battery is defective and must be replaced.

Additional operating instructions

 Do not actuate the clamping lever while the power tool is running. Otherwise there is danger of injury.

 Do not operate the power tool with open clamping jaws and without an application tool! This could damage the power tool.

 When the clamping jaws are open before the application tool is inserted, pivot the clamping lever toward the front and then back again. The clamping jaws are closed now. The application tool can be inserted.



Guide the power tool toward the work piece only when switched on.

The application tool can be offset in 30° steps and fastened in the most favorable working position. The self-start prevention lock prevents the power tool from automatically starting when the battery is inserted while the on/off switch is set to on. If the power tool shuts off without the switch being actuated, switch the power tool switch off, remove the battery and reattach it.

Notes on sanding

Press the power tool with the sanding sheet briefly and firmly against a flat surface and briefly switch the power tool on. This provides for good adhesion and prevents premature wear.

When only one tip or corner of the sanding sheet is worn, it can be removed again and reattached turned by 120°. Work with the entire surface of the sanding plate, not only with the tip.

When sanding with small triangle sanding plates, select a high oscillating frequency (electronics level 4 – 6); when sanding with the round sanding plate and the large triangle sanding plate, select a moderate oscillating frequency (max. electronics level 4).

Sand with continuous motion applying moderate pressure. Applying excessive pressure does not increase the rate of removal, it only wears off the sanding sheet faster.

Notes on sawing

Select a high oscillating frequency. Round saw blades can be released and clamped offset again, to allow for uniform wearing off.

Notes on scraping

Select a moderate to high oscillating frequency.

Transport

The contained Li-ion batteries are subject to the Dangerous Goods Legislation requirements. The user can transport the battery packs by road without further requirements.

When being transported by third parties (e.g.: air transport or forwarding agency), special requirements on packaging and labelling must be observed. For preparation of the item being shipped, consulting an expert for hazardous material is required.

The recommended Li-ion batteries are subject to the Dangerous Goods Legislation requirements. The user can transport the batteries by road without further requirements.

When being transported by third parties (e.g.: air transport or forwarding agency), special requirements on packaging and labelling must be observed. For preparation of the item being shipped, consulting an expert for hazardous material is required.

Dispatch batteries only when the housing is undamaged. Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging. Please also observe possibly more detailed national regulations.

Repair and customer service



Please observe that power tools may only be repaired, maintained and inspected by qualified electricians, as improper maintenance can result in considerable hazards for the user.



When working metal under extreme operating conditions, it is possible for conductive dust to settle in the interior of the power tool. Blow out the interior of the power tool via the ventilation slots frequently with dry and oil-free compressed air.

When working gypsum-containing materials, dust can settle within the power tool and switch element, which can harden in connection with humidity. This can impair the switching mechanism. Blow out the interior of the power tool via the ventilation slots and the switch element frequently with dry and oil-free compressed air.

For storage of the power tool, remove the application tool and shut the clamping lever.

Products that have come into contact with asbestos may not be sent in for repair. Dispose of products contaminated with asbestos according to the applicable country-specific regulations for such disposal.

For FEIN power tools and accessories in need of repair, please contact your FEIN after-sales service. The address can be found on the Internet under www.fein.com.

Renew stickers and warning indications on the power tool when aged and worn. The current spares parts list for this power tool can be found on our website at www.fein.com. Use only original spare parts.

If required, you can change the following parts yourself:

Application tools

Maintenance and cleaning

Occasionally clean the ventilation slots and the battery terminals with a soft, clean and dry brush.

- Do not use chemical substances for cleaning the battery.

Warranty and Liability

The warranty for the product is valid in accordance with the legal regulations in the country where it is marketed. In addition, FEIN also provides a guarantee in accordance with the FEIN manufacturer's warranty declaration. The delivery scope of your power tool may include only a part of the accessories described or shown in this Instruction Manual.

Declaration Of Conformity

This CE declaration is only valid for European Union and EFTA (European Free Trade Association) countries and only for products intended for the EU- or EFTA market. After placing the product on the EU market the UKCA mark loses its mark validity.

The UKCA declaration is only valid for the Great Britain market (England, Wales and Scotland) and only for products intended for the Great Britain market. After placing the product on the Great Britain market the CE mark loses its mark validity.

FEIN declares itself solely responsible for this product conforming with the relevant provisions given on the last page of this Instruction Manual.

Technical documents at:

C. & E. Fein GmbH

Hans-Fein-Straße 81

73529 Schwäbisch Gmünd-Bargau, Germany

Environmental protection, disposal



Do not dispose of the batteries into house hold waste!

Packaging, worn out power tools and accessories should be sorted for environmental-friendly recycling. Dispose

of batteries only when discharged.

For batteries that are not completely discharged, insulate the terminals with tape as a protective measure against short-circuiting.

Only for EC countries:

According to the European Guideline 2002/66/EC, defective or used battery packs/batteries, must be collected separately and disposed of in an environmentally correct manner.




i. V. S. Böhm Director of Quality Management



i. V. Dr. M. Hergesell Director of Product Development



Documents / Resources

	<p>Fein AMM500 Plus 18V StarlockPlus MultiMaster Multi-Tool [pdf] Instruction Manual AMM500 Plus 18V StarlockPlus MultiMaster Multi-Tool, AMM500 Plus, 18V StarlockPlus Multi Master Multi-Tool, MultiMaster Multi-Tool, Multi-Tool, Tool</p>
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References

-  [High quality power tools and accessories | C. & E. Fein GmbH](#)

Manuals+.