MEEC TOOLS 017625 Multi-Function Tool Multiseries Instruction Manual

Contents

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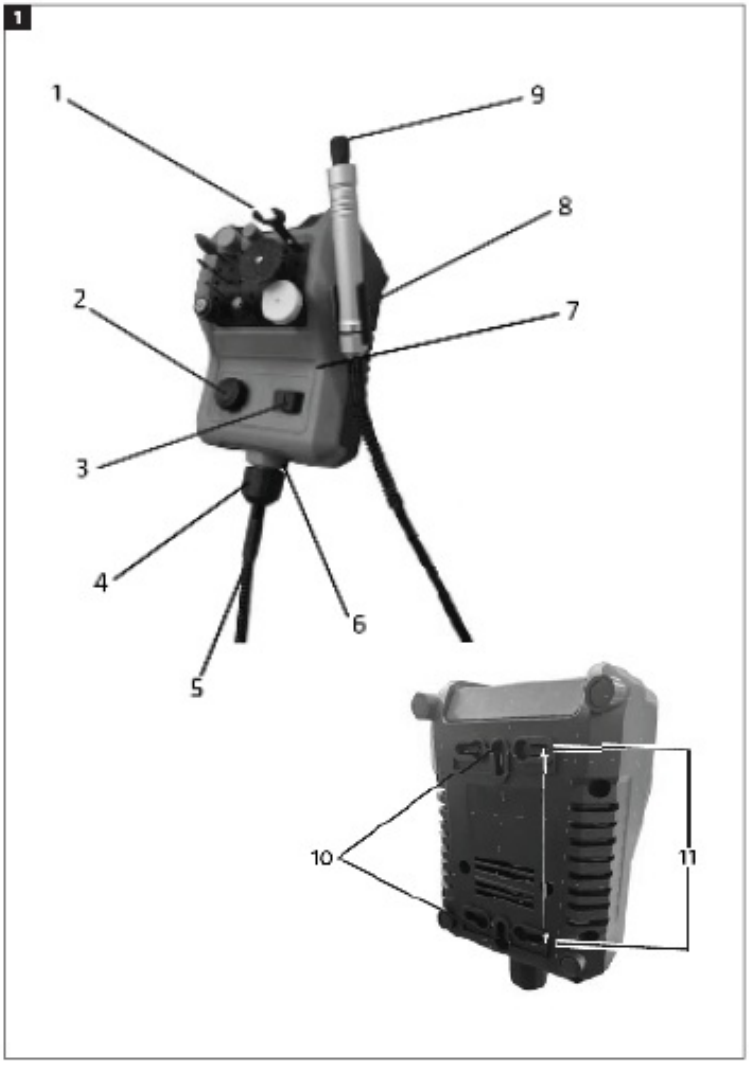
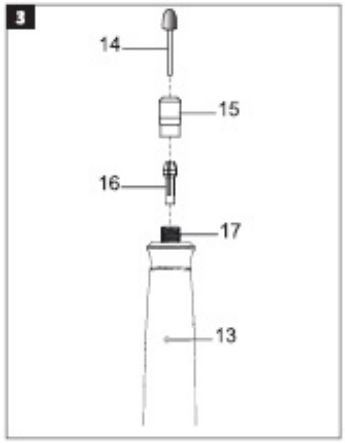
SAFETY INSTRUCTIONS





WARNING!
Read all the safety instructions and other instructions. Failure to follow the safety instructions and other instructions can result in electric shock, fire and/or serious personal injury. Save all the safety instructions and other instructions for future reference.
The term “power tool” in the safety instructions refers to your mains-powered (corded) or battery-powered (cordless) power tool.

SAFETY IN THE WORK AREA

- Make sure the work area is clean and well lit. Untidy or poorly lit work areas can cause accidents.
- Do not work with this power tool in environments where there is a risk of explosion, or where there are flammable liquids, gas or dust. Power tools produce sparks that can ignite dust and fumes.
- Keep children and other persons at a safe distance when using the power tool.
- Distractions can cause you to lose control of the tool.

ELECTRICAL SAFETY

- The plug on the power tool must match the power point. The plug must not be modified in any way. Do not use adapter plugs together with earthed power tools. Unmodified plugs and suitable sockets reduce the risk of electric shock.
- Avoid body contact with earthed surfaces such as pipes, radiators, cookers and refrigerators. There is an increased risk of electric shock if your body is earthed.
- Do not expose the power tool to rain or moisture. There is an increased risk of electric shock if water enters a power tool.
- Do not use the power cord for other purposes, e.g. to carry or hang up the power tool, or to pull the plug out of the power point. Protect the power cord from heat, oil, sharp edges and moving machine parts. Damaged or tangled power cords increase the risk of electric shock.

- When working outdoors with the power tool only use an extension cord intended for outdoor use.
- If you have to use the power tool in damp conditions use a residual current device. Use of a residual current device reduces the risk of electric shock.

PERSONAL SAFETY

- Pay full attention to what you are doing.
- Use your common sense when working with power tools. Do not use power tools if you are tired or under the influence of drugs, alcohol or medication. A moment of inattention can result in serious personal injury.
- Use personal safety equipment and always wear safety glasses. The use of personal protective equipment, e.g. dust mask, non-slip safety shoes, helmet and ear protection, according to the type of power tool and application, reduces the risk of injury.
- Avoid accidently starting the power tool. Check that the tool is switched off before connecting it to the power supply and/or battery, or before lifting it or carrying it. Avoid holding your finger on the power switch when carrying the power tool. If the power tool is connected to the power supply when the power switch is switched on this can result in personal injury.
- Remove adjusting tools before starting the power tool. A tool or screwdriver left in a rotating machine part can result in personal injury.
- Avoid awkward body positions. Make sure you have a firm footing and can maintain your balance at all times. This will ensure you have better control over the power tool in unexpected situations.
- Wear appropriate clothing. Do not wear loose-fitting clothing or jewellery. Do not allow your hair, clothes or gloves to come near moving parts.
- Loose-fitting clothing, jewellery or long hair can get caught in moving parts.
  If dust extraction devices can be fitted, make sure they are properly connected and used. Dust extraction reduces dust related risks.

USING AND LOOKING AFTER POWER TOOLS

- Do not overload the machine. Use power tools that are intended for the job on hand. The use of the right tools means you work better and safer.
- Do not use power tools with defective switches. A power tool that cannot be switched on or off is dangerous and must be repaired.
  Unplug the plug from the power point and/or remove the battery before making any adjustments, changing accessories, or putting away the tool.
  Store power tools not in use out of the reach of children. Do not allow anyone to use the power tool if they are not familiar with it, or have not read these instructions. Power tools are dangerous if used by inexperienced persons.
- Look after the power tool carefully. Check that moving parts function perfectly and do not jam, and that no parts are defective or damaged. Have damaged parts repaired before using the machine. Many accidents are a result of poorly maintained power tools.
- Keep sharp-edged tools clean and well sharpened. Carefully looked after
  sharp-edged tools with sharp blades jam less frequently and are easier to control.
- Use power tools, accessories and tool inserts etc. in accordance with these instructions. Pay attention to the actual working conditions and the job to be done. Using power tools for purposes they are not intended to be

used for can result in dangerous situations.

USING AND MAINTAINING BATTERY-POWERED TOOLS

- Charge the batteries only with the charger recommended by the manufacturer.
- The use of another charger can result in the risk of personal injury and fire.
- Only use batteries intended for the power tool. The use of other batteries can result in the risk of personal injury and fire.
- Do not allow batteries to come into contact with paper clips, coins, keys, nails, screws and other small metal objects that can result in short circuiting. Short circuiting the battery terminals can result in the risk of burn injuries or fire.
- Incorrect use can cause liquid to leak from the battery. Avoid touching this. Rinse with water after unintentional contact. Seek medical attention if you get battery fluid in your eyes. Leaking battery fluid can cause skin irritation or burn injuries.

SERVICE

- Only allow qualified service personnel to repair the power tool, and only use original spare parts. This will guarantee the safety of your machine.
- Never attempt to repair damaged batteries. The battery must only be serviced by the manufacturer or at an authorised service centre.

REDUCTION OF NOISE AND VIBRATIONS

- Plan the work so that exposure to heavy vibrations is spread over a longer period.
- To reduce noise and vibrations when in use, limit the time the tool is in use, and use low-power/vibration mode and suitable safety equipment.
- Take the following precautions to minimise the risks of exposure to vibrations and/or noise:
    - Only use the tool in accordance with these instructions.
    - Check that the tool is in good condition.
    - Use accessories in good condition, and which are suitable for the purpose.
    - Keep a firm grip on the handles/grips.
    - Maintain and lubricate the tool in accordance with these instructions.

OTHER RISKS

- Even if the power tool is used in accordance with these instructions there are always other potential risks. The following risks can be anticipated as a result of the design and performance of the power tool.
    - Damage to lungs if dust mask is not used.
    - Hearing impairment if ear protection is not used.
    - Health hazard resulting from hand and arm vibrations if the machine is used for longer than specified in the instructions, or not used and maintained according to the instructions.

WARNING!
This power tool produces an electromagnetic field when in use. This field can in some circumstances affect active

or passive medical implants. To reduce the risk of serious or life-threatening personal injury we therefore recommend that persons with medical implants consult their doctor and the manufacturer of the medical implant before using this machine.

SYMBOLS

	Read the instructions.
	Wear safety glasses.
	Use ear protection.
	Wear a dust filter mask.
	Safety class II.
	Approved in accordance with the relevant directives.
	Recycle discarded product in accordance with local regulations.

TECHNICAL DATA

Rated voltage	18 VDC
Output	170 W
Speed, no load	5000 – 34000 rpm
Chuck	Max 3.2 mm
Length of flexible shaft	91 cm
Sound pressure level, LpA	76.0 dB(A), K=3 dB
Sound power level, LwA	87 dB(A), K=3 dB
Vibration level	3.7 m/s², K=1.5 m/s²

Always use ear protection!
The declared values for vibration and noise, which have been measured according to a standardized test method, can be used to compare different tools with each other and for a preliminary assessment of exposure. The measurement values have been determined in accordance with EN 60745-2-23.

WARNING
The actual vibration level when using power tools may differ from the specified maximum value, depending on how the tool is used. It is therefore necessary to determine which safety precautions are required to protect the user, based on an estimate of exposure in actual operating conditions (taking into account all stages of the work cycle, e.g. the time when the tool is switched off and when it is idling, in addition to the start-up time).

DESCRIPTION

1. Storage for frequently used accessories
2. Speed control
3. Power switch
4. Nut

5. Flexible auger
6. Threaded connection
7. Main unit
8. Handheld unit
9. Chuck nut
10. Mounting hole
11. Gap 127mm

FIG. 1

USE

INTENDED USE

The tool is intended for drilling, grinding and polishing, engraving, cutting and removing rust, even in confined spaces. The tool can be used on most metals, glass, wood and ceramic material. Work smooth hard. Use a low speed for large accessories, fo r example for polishing, and high speed for example for engraving. Hold the tool like a pen when grinding and engraving.

ASSEMBLY

The product must be assembled.

1. Carefully remove the product and all the accessories from the packaging. Check that all parts are included and undamaged.
2. Put the end of the flexible shaft (5) in the threaded connection (6) on the main unit (7).
3. Screw the nut (4) tight.

WARNING
The parts on the list are not assembled from the factory and must be assembled by the customer. Using a product that is incorrectly assembled can result in a risk of serious personal injury. Contact your dealer if any parts are missing or damaged.
Do not use the product if any parts are missing or damaged – risk of serious personal injury.
Do not make any modifications to the product. Never use accessories that are not recommended by the manufacturer.
Any modifications to the product are considered to be misuse and can lead to serious personal injury.

MOUNTING

Use the mounting holes to mount the product on the wall. Place the screws with a centre- to centre spacing of 127 mm.

STARTING/STOPPING

1. Start the product by putting the power switch in the ON position.
2. Switch off the product by putting the power switch in the OFF position.

Never start or stop the tool when the accessory is in contact with the workpiece. Hold the tool firmly and move the power switch to the ON position. The tool starts and runs continuously until the power switch is moved to OFF. The speed can be changed when the tool is running.

ADJUSTING THE SPEED

The speed of the tool can be adjusted. Do not change the speed when the accessory is in contact with the workpiece. Turn the speed control (2) to change the speed. Use a low speed for polishing, and high speed for drilling and cutting.

Adjusting the speed		
Accessories	Use	Speed (X 1000)
Grinding accessories aluminium oxide	Grinding of metal	32
Cutting disc of fibreglass	Cutting of screws, nails, thin wood	30
Grinding wheel	Grinding of soft wood	30
Felt polishing wheel	Polishing of steel, aluminium, brass, st one, ceramic, glass	12-15
Drill	Drilling holes in wood	32
Wire-brush	Brushing of metal	15
Engraving accessories	Engraving of soft metal	High speed for wood, low s peed for metal
Miller	Shaping curved surfaces	20-33
Conical grindstone	Grinding of metal edges	32

FITTING ACCESSORIES

WARNING!
The product and accessory are very hot after use – risk of burn injury. Avoid touching hot parts. Use the supplied spanner.

NOTE:
Wait until all moving parts have completely stopped before applying the spindle lock, otherwise it can be damaged.

1. Remove the battery.
2. Lock the spindle by turning it so that the hole in the shaft comes in line with the hole in the hand held unit.

3. Put a 3 mm drill in the hole to lock the shaft (13).
4. Unscrew the chuck anticlockwise with the supplied spanner (12).
5. Insert a suitable chuck (16) for the accessory to be used.
6. Put the chuck nut (15) over the chuck.
7. Put the stem of the accessory (14) in the bit holder and then pull it out 1.5 mm so that it can expand when it gets hot.
8. Tighten the check nut with the supplied spanner.

   FIG. 2

   FIG. 3

TIPS

- The tool gets hot when in use. Switch it off and allow it to cool, if necessary.
- Lubricate the spindle at regular intervals.
- Do not apply pressure sideways on the tool, this reduces precision.
- Work smoothly for best results.
- When drilling in metal, mark the drilling point with a punch to prevent the drill sliding to one side.
- Insert the tool stem as far as it will go in the chuck and firmly tighten the chuck.
- Use a low speed for polishing, and high speed for engraving.

USING LOOSE SPINDLES

The type of spindle most often used with this product is the standard spindle, which is used for cut-off wheels, grinding discs and emery wheels. Screw spindles are used for polishing discs and polishing wheels. Drum spindles are used with grinding wheels.

Assembly

1. Remove the battery.
2. Fit the spindle.

Standard spindle

1. Apply the spindle lock and keep it locked.
2. Put the screw driver end of the supplied spanner in the slot on top of the spindle and unscrew.
3. Remove the spindle screw and washer.
4. Put the required accessory on the spindle and align the hole in the accessory to the hole in the spindle.
5. Screw in the spindle screw with the washer through the hole in the accessory in the hole in the spindle.

   NOTE: The spindle washer should be placed between the head of the spindle screw and the accessory.
6. Tighten with the supplied spanner.

Spindle screw

1. Align the hole in the accessory to the head of the spindle screw.
2. Screw the accessory firmly on the spindle by turning it clockwise.

Drum spindle

Fit a grinding wheel of a suitable size over the spindle and press it down so that it covers the drum end of the spindle.

NOTE:
If necessary, tighten the screw on the head of the drum spindle to expand the drum and lock the grinding wheel in place.

BALANCING OF ACCESSORIES

Accessories must be correctly balanced for precision work. To balance an accessory, release the bit holder nut a little and turn the accessory or bit holder a 1/4 turn. You can hear and feel when the accessory rotates well balanced. Repeat the adjustment to get the best balance. Replace damaged or unbalanced accessories.

ADJUSTMENT OF SUITABLE SPEED

The speed of the product can be adjusted from 5000 to 34000 rpm. Test on a spare piece to find a suitable speed for the work. Test different speeds to find the best one.
Set the required speed with the speed control. The maximum speed is around 34000 rpm.

MAINTENANCE

WARNING!
Switch off the product and remove the battery before cleaning, maintenance and/or adjustment.

- Wear safety glasses.
- Remove any dust with a soft brush.
- Clean the casing with a damp cloth, if necessary.
- Do not use strong, corrosive or abrasive detergent.
- Do not expose the product to water or any other liquid, this can damage the product.

Battery and charger sold separate ly in Jula’s department stores and at www.jula.com.

WARNING
Make sure that the power switch on the tool is not pressed in when inserting or replacing the battery.

NOTE:
Conned the battery with moderate pressure – do not force. An incorrectly connected battery can damage the battery terminals or the battery socket on the tool.

CHARGING LEVEL

To check the battery charge level, press the “Press” button to see 1-4 red LEDs, where 1 indicates low battery level and 4 high level.
FIG. 4

CHARGE THE BATTERY

NOTE:

- The battery must be charged before it can be used with a power tool.
- After charging for the first time, use the tool until the battery is completely flat. Repeat this charging and discharging cycle 4 to 5 times.
- If the LEDs on the charger do not go on when charging:
    - check that the mains adapter for the charger is properly plugged into the power point and that the charger is switched on.
    - check that the battery is correctly inserted in the charger.
        - Place the batte ry charger on a level and stable sur face. Plug the charger into a 230 V power point.
        - Connect the batte ry to the charger so that it clicks in place. The red LED on the charger goes on when correct contact is made.
          FIG. 5
- When the battery is fully charged, after about one hour, the red LED goes off and on ly the green LED stays on.
- Unplug the charger from the power point and remove the battery from the charger.

CONNECT THE BATTERY TO THE TOOL

Connect the battery to the battery socket on the tool so that it clicks in place.

REMOVE THE BATTERY FROM THE TOOL

Press the battery lock and remove the battery from the tool.

MAINTENANCE

WARNING!
Always remove the battery before maintenance and/or cleaning.

- Check at regular intervals that screw unions and retaining screws are tight.
- Repairs must only carried out by an authorised service centre.
- Spray a suitable lubricant on all moving parts at regular intervals.

Cleaning the battery

WARNING!
Always wear safety glasses and gloves when cleaning.

- Clean the casing with a soft brush or dry cloth.
- Do not use strong detergent or solvent, this can damage the plastic parts on the product. Stubborn dirt can be removed with a cloth moistened with a mild detergent.
- Keep the ventilation openings clean. Blow clean the ventilation openings with compressed air, if possible.

Documents / Resources

MEEC TOOLS 017625 Multi-Function Tool Multiseries [pdf] Instruction Manual
017625 Multi-Function Tool Multiseries, 017625, Multi-Function Tool Multiseries, Function Tool Multiseries, Tool Multiseries, Multiseries