ORIGINAL INSTRUCTIONS

CORDLESS MULTI TOOL

FMT20V

INSTRUCTIONS MANUAL

FEIDER

32, rue Aristide Bergès - ZI 31270 Cugnaux – France

1. SAFETY WARNINGS

 **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. *The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.*

1) **Work area safety**

a) **Keep 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.*

2) **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 a 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.*

3) **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 connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energizing 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) **Do not overreach. Keep proper footing 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*.

4) **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 and 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 tool bits 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.*

5) Battery tool use and care

a) **Recharge only with the charger specified by the manufacturer**. *A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.*

b) **Use power tools only with specifically designated battery packs.** *Use of any other battery packs may create a risk of injury and fire.*

c) **When battery pack is not in use, keep it away from other metal objects, like 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.*

d) **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help**. *Liquid ejected from the battery may cause irritation or burns.*

6) **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*

Residual risks

Some dust created by power sanding, sawing, and grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. Wear also a correct eyes protection.

Symbols


Refer to the instruction handbook/booklet


Wear eyes protection


Wear ear protection


Wear respiratory protection.

Intended use

This tool is intended to be used for the sanding of little surfaces, corners, edges, for stripping, cutting little pieces in metal, wood or plastics. Specially design to work with Feider range of battery and charger.

Do not use this tool for others purposes. Misuse will create accidents and injuries. It is intended only for a domestic use. Do not use it for commercial purposes.

2. YOUR PRODUCT

a. Description

1. Quick release lever
2. ON/OFF switch
3. Hand grip
4. Battery release catch
5. Li-ion battery
6. Saw blade
7. Scraper
8. Segment saw blade
9. Sanding pad with dust extraction pipe
10. Tool chuck
11. Work light
12. Speed control

b. Technical data

Model	FMT20V
Voltage	20V dc
Sound power level	LwA = 88.0dB(A) K= 3dB(A)
Sound pressure level	LwA= 77.0dB(A) K= 3dB(A)
Vibration	4.68m/s² K= 1.5 m/s²

Information:

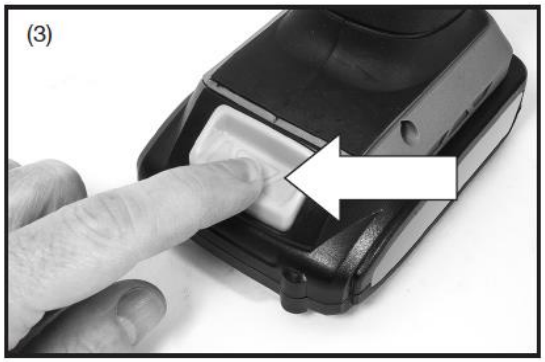
- The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another;
- The declared vibration total value may also be used in a preliminary assessment of exposure.

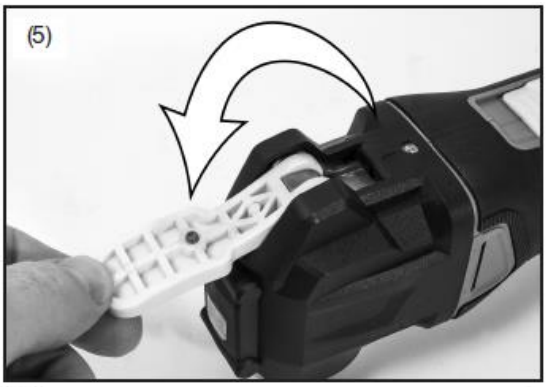
Warning:

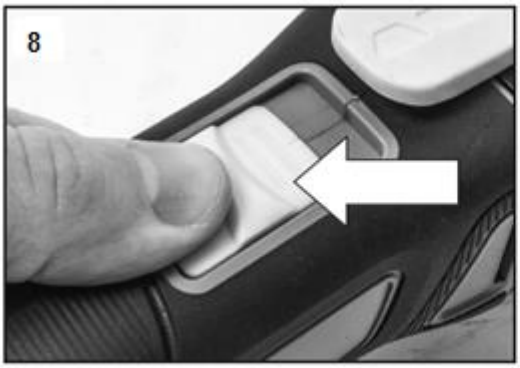
- that the vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used; and
- of the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

Wear hearing protection

2. USE







a. Charging

FEIDER range battery and charger not sold together with this tool. Battery has not been fully charged at the factory.

Before using it for the first time, charge the battery for 60min to 130min. Insert the charger plug into the charging socket and plug the charger into a 230V / 50 Hz electrical outlet. Detailed information please read carefully the manual for battery and charger.

CHARGE STATUS

To display the amount of charge left in the battery, press the charge level indicator button, Fig.4.

Charge level indicator	Amount of charge remaining
	0-10%
	10-25%
	25-50%
	50-75%
	75-100%

a. Installing the battery pack

Warning! Always remove battery pack from your tool when you are assembling parts, making adjustments, cleaning, carrying, transporting or when it is not in use. Removing the battery pack will prevent accidental starting that could cause serious personal injury

NOTE: To avoid serious personal injury, always remove the battery pack and keep hand clear of the lock out button when carrying or transporting the tool.

Slide battery pack into the tool base, Fig 2. Make sure that the battery pack snaps into place and that the battery is secured in the tool before beginning operation. Improper installation of the battery pack can cause damage to internal components.

b. Removing battery pack

Locate the battery release catch on the top of the battery and press downwards, Fig 3. Whilst holding down the battery release catch slide the battery pack away from the tool.

b. Assembling /function choosing

CHANGING ACCESSORIES

Note: Before carrying out any assembly or disassembly of the accessories please ensure that the battery is disconnected from the machine.

Lift the quick release lever and push it firmly forward over the detent, Fig.5. This will release the tool chuck.

Place the tool upside down on a flat surface.

Choose the accessory you wish to use making sure it is clean of all dirt and debris.

Slide the accessory between the tool chuck and retaining ring at the angle you require, Fig.6.

Press the quick release lever back into place to secure the accessory, Fig 7.

ACCESSORY APPLICATIONS

SEGMENT SAW BLADE

The segmented saw blade is deal for working in corners and on edges without overcutting. Use it for plastics; fibre glass reinforced plastic, wood, putty and copper/copper alloys.

SAW BLADE

Saw blade is used for wood, wooden materials, plastic, gypsum and other soft materials separating and deep plunge cuts; also for sawing close to edges, in corners and hard to reach areas.

Example: Sawing off water pipes (PVC) or cable ducts flush against walls, floors or ceilings.

SANDING PAD

The is tool is used for sanding surfaces close to edges, in corners or hard to reach areas; Depending on the sanding sheet for e.g. sanding wood, paint, varnish, stone, glass.

SCRAPER

This tool is used for removing ceramic wall/floor tiles and vinyl.

FITTING THE SANDING PAD

The sanding pad is fitted in the same way as the other accessories. The sanding sheets are of the “Hook and Loop” type for quick and easy replacement of the sanding sheets.

Before attaching the sanding sheet ensure that the loop backing on the sanding pad and the hook backing on the sanding sheet are free from any debris.

Position the sanding sheet flush alongside one edge of the sanding pad then place the sanding sheet onto the sanding pad and press firmly. To remove the sanding sheet grip one of the corners and peel it away from the sanding pad. Any sanding sheets, fleece pads/polishing cloth pads of the 93mm Delta format with a hook backing can be attached to the sanding pad in the same way as the sanding sheets.

SANDING SHEET SELECTION

For coarse-sanding, e.g. of rough, unplanned beams and boards Coarse 40, 60 Grit

For face sanding and removing small irregularities Medium 80, 100, 120 Grit

For finishing and fine sanding of all materials Fine 150, 180, 240, 320, 400 Grit

c. Operation

TURNING THE MACHINE ON AND OFF (FIG.8)

To start the tool, grasp the handle and slide the switch toward the "1 (ON)" position.

Allow the tool to come to full speed before beginning work. Control pressure and surface contact between accessory and workpiece.

To stop the tool, slide the switch toward the "O (OFF)" position. Make sure the tool comes to a complete stop before laying the tool down.

SPEED CONTROL (FIG.9)
The orbital stroke rate is adjustable. To change the orbital stroke rate, turn the dial between 1 and MAX. The higher the number is, the higher the orbital stroke rate is.

Turn the speed control to a desired position.
NOTE: The dial cannot be turned directly from 1 to MAX or from MAX to 1. Forcing the dial may damage the tool.

LED WORK LIGHT
Caution: Do not look in the light or see the source of light directly.

Slide the switch toward the "1 (ON)" position to light up the lamp. The lamp keeps on lighting while the tool is in the ON position. The lamp goes out immediately when the switch is in the OFF position.

OPERATION TIPS

SAWING/CUTTING
The sawing teeth are very sharp. Do not touch during mounting and application.
Before sawing make sure that no live cables will be damaged.
The accessory must be inserted firmly or clamped tightly before it is put into operation.
Typical application: wood, plaster board and soft plastics. Not suitable for metal (e.g. nails) and stone.
Always set the saw blade straight (at 90º) and guide it in the gap without tilting.
Always guide the saw blade along the cutting line without exerting any pressure.
When plunging and sawing with a slight pendulum motion, make sure that sufficient chip removal is provided for..
Use moderate pressure to avoid burning or scorching the workpiece.

SCRAPING
Typical application: Scraping off old varnish or adhesives. Removing glued carpeting, e.g. on stairs or other small to medium-sized surfaces.
Use light pressure and a low angle to avoid gouging and damaging the workpiece.

SANDING
Typical application: wood, metal; small areas, especially corners, edges and places difficult to access. Sand with a constant movement and light pressure.
Pressing on heavily does not increase the removal the sand paper merely becomes worn faster.
The sand paper lasts longer if the wear is distributed evenly. To ensure an even distribution, loosen the sand paper, turn it round a little and then tighten again firmly.

3. MAINTENANCE

WARNING! Always remove battery pack from your tool when you are assembling parts, making adjustments, cleaning, or when not in use. Removing battery pack will prevent accidental starting that could cause serious personal injury.
This power tool normally requires no maintenance; from time to time the ventilation slots on the motor casing should be cleaned out. If the unit should become defective, repair should be performed by an authorized service agent for electric tools.

The tool may be cleaned most effectively with compressed dry air. Always wear safety goggles when cleaning tools with compressed air.
Ventilation openings and switch levers must be kept clean and free of foreign matter. Do not attempt to clean by inserting pointed objects through openings.
Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean clothes to remove dirt, dust, oil, grease, etc.

WARNING! Do not at any time let brake fluids, gasoline, petroleum based products, penetrating oils,
etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

Electric tools used on fiberglass material, wallboard, spackling compounds, or plaster are subject to accelerated wear and possible premature failure because the fiberglass chips and grindings are highly abrasive to bearings, brushes, commutator, etc. Consequently, we do not recommended using this tool for extended work on these types of materials. However, if you do work with any of these materials, it is extremely important to clean the tool using compressed air.

LUBRICATION
All of the bearings in this tool are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions. Therefore, no further lubrication is required.

4. DISPOSAL

Electrical products should not be discarded with household products. According to the European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation into national law, electrical products used must be collected separately and disposed of at collection points provided for this purpose. Talk with your local authorities or dealer for advice on recycling.

5. DECLARATION OF CONFORMITY CE

CE

EC Declaration of conformity

FEIDER
32, rue Aristide Bergès - ZI 31270 Cugnaux – France declare that the machine

Designation: CORDLESS MULTITOOL
MODEL: FMT20V
Serial number:

Is in conformity with the European Directives:
Machine Directive 2006/42/EC
EMC Directive 2014/30/EU
RoHs Directive 2011/65/EU

This product is also in conformity with the following standards:
EN60745-1: 2009+A11:2010
EN60745-2-4: 2009+A11 :2011

EN 55014-1:2006+A1:2009+A2:2011
EN 55014-2:1997+A1:2001+A2 :2008

Responsible of the technical documentation: Olivier Patriarca

Philippe MARIE / PDG

Cugnaux, 19/11/2018