

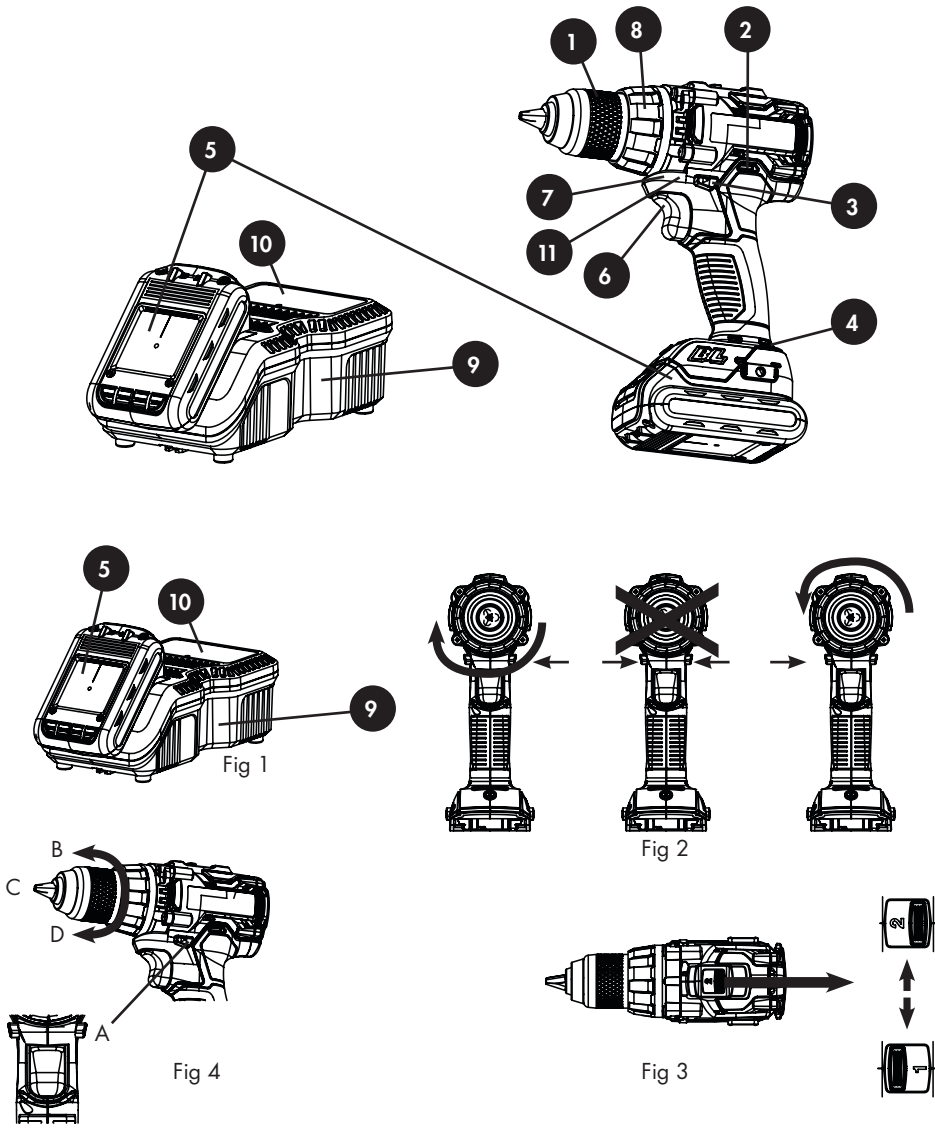
Pro**Meister**

User Guide

18V Li-ion Brushless Drill Driver

Drehschlagschrauber
Slagnøgle
Mutterdragare

Akkuiskumutterinväännin
Muttertrekker



Introduction

Your new ProMeister power tool will more than satisfy your expectations. It has been manufactured under stringent ProMeister quality standards to meet superior performance criteria. You will find your new tool easy and safe to operate and with proper care, it will give you many years of dependable service.



WARNING:

Carefully read through this entire Instruction Manual before using your new ProMeister power tool. Take special care to heed the Warnings. Your ProMeister power tool has many features that will make your job faster and easier. Safety, performance and dependability have been given top priority in the development of this tool, making it easy to maintain and operate.



Do not dispose of electrical products together with household waste!

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

Description of Symbols

V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
min	Minutes	Time
~	Alternating Current	Type of Current
— — —	Direct Current	Type or a characteristics of current
□	Class II Construction	Double-insulated construction
	Before charging, read the instructions	To reduce the risk of injury, user must read and understand the user guide before using this product.
CE	Safety Certification	Conformance to use the CE mark and complies with relevant standards.
	Safety Alert	Precautions that involve your safety
	For Indoors Use Only	To reduce the risk of electric shock, only using the charger indoor.
	The Green Dot	license symbol of a European network of industry-funded systems for recycling the packaging materials of consumer goods.
	Don't Throw in Trash	To be collected separately and disposed of in an environmentally correct manner.

Technical Data

- | | |
|---------------------|----------------------------|
| 1. Art. Nr: | PT7202 |
| 2. Chuck: | 13mm |
| 3. Motor: | 18V DC |
| 4. Variable Speed: | 1: 0-560/min 2: 0-1900/min |
| 5. Clutch Position: | 15+1 |
| 6. Max. Torque: | 55Nm |

NOISE AND VIBRATION INFORMATION (measured values determined according to EN 62841)

• Noise Emission

A-weighted sound pressure level LPA: 68dB(A),
Uncertainty KpA: 5dB(A)
A-weighted sound power level LWA: 79dB(A)
Uncertainty KpA: 5dB(A)

• Vibration Emission

Screwdriving mode: $a_{h,s}=0.8\text{m/s}^2$
Drilling mode: $a_{h,D}=2.3\text{m/s}^2$

- 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;
- 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;
- 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).

Battery

- 20V DC, 2.0Ah

Charger

- Art. Nr: PT7804
- Input: 100-240V AC, 50/60Hz
- Consumption: 110W
- Output: 12-20V, 4.0A
- Charging time:
35min (2.0Ah)
75min (4.0Ah)
- Optimum Charging Temperature: 4°-40°C

General Power Tool Safety Warning

! 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 refer to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work Area Safety

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents. Rags, cloths, cord, string and similar items should never be left around the work area
- **Do not operate power tools in explosive environments,** such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause the operator to lose control.

2) Electrical Safety

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is increased risk of electric shock if your body is grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **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. Replace damaged cords immediately.** Damaged or entangled cords increase the risk of electric shock.
- **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor reduces the risk of electric shock.
- **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

- **Stay alert at all times 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.
- **Use personal protective equipment. Always wear eye protection that meets OSHA and ANSI Z87.1 standards.** Protective equipment such as dust mask, non-skid safety shoes, hard hat or hearing protection will reduce personal injuries.
- **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.
- **Remove any adjusting key or wrench before turning the power tool on.** A wrench or key left attached to a rotating part of the power tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **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.
- **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.
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

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4) Power Tool Use and Care

- **Do not force the power tools. 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.
- **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.
- **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.
- **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.
- **Maintain power tools with care. 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.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **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.
- **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations

5) BATTERY tool use and care

- **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.
- **Use power tools only with specifically designated BATTERY packs.** Use of any other BATTERY packs may create a risk of injury and fire.
- **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.
- **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.
- **Do not use a BATTERY pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, EXPLOSION or risk of injury.
- **Do not expose a BATTERY pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
- **Follow all charging instructions and do not charge the BATTERY pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the BATTERY and increase the risk of fire.

6) Servicing

- **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tools is maintained.
- **Never service damaged BATTERY packs.** Service of BATTERY packs should only be performed by the manufacturer or authorized service providers.

Safety Warnings for Cordless Drills

7) Drill Safety Warnings – Electrical safety

- **Safety instructions for all operations**
 - **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fasteners may contact hidden wiring.** Cutting accessory or fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- **Safety instructions when using long drill bits**
 - **Never operate at higher speed than the maximum speed rating of the drill bit.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
 - **Always start drilling at low speed and with the bit tip in contact with the workpiece.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
 - **Apply pressure only in direct line with the bit and do not apply excessive pressure.** Bits can bend causing breakage or loss of control, resulting in personal injury.

Additional Instructions for Work with the Charger

- Before using the charger, read all the instructions and cautionary markings on the charger and battery pack as well as the instructions on using the battery pack.
- Only charge your batteries indoors as the charger is designed for indoor use only.

! WARNING: If the battery pack is cracked or damaged in any other way, do not insert it in the charger. There is a danger of electric shock.

! WARNING: Do not allow any liquid to come into contact with the charger. There is a danger of electric shock.

Additional Instructions for Work with the Battery Pack

! WARNING: If the battery pack is cracked or damaged in any other way, do not insert it in the charger. There is a danger of electric shock.

Fitting and Removing the Battery Pack

To remove the battery from the machine, press the battery release buttons (4) and take the battery out of the tool.

! WARNING: Always set the forward/reverse switch (3) in central position before any work on the machine e.g. fitting and removing a battery, changing the bit, transport, maintenance and storage.

To install the battery: Insert the charged battery into the opening at the base of the power tool until the battery is securely latched with a click.

BATTERY CHARGING

- Insert the plug of the charger in the socket. The LED on the charging indicator (10) will start to glow this indicating that the charger is in standby state.
- Insert the battery (5) in the charger socket considering the polarity.(Fig. 1)
- A new battery will work properly after five cycles of charging and discharging. Charge and discharge a battery, which is not used for a long time, for two to three times to function well.
- When the battery working time is remarkably short despite full charging, the life of the battery may be over. Replace the battery immediately.

! WARNING: The battery will be fully charged after approximately 35 minutes, remove it from the charger after this time.





CHARGING INDICATION

1. Connect the plug cable to the charger, and then plug into an appropriate outlet before inserting battery pack. All three charging lights will be on for two seconds and then off.
2. Insert the battery pack into the charger, making sure the pack is fully seated in the charger. During the charging process, the charging lights will indicate the charging status as follows:
 - Less than 30% charged: all three charging lights will blink in sequence.

Additional Instructions for Work with the Battery Pack

- Less than 60% charged: one light will stay on, while the other two lights will blink in sequence.
- Over 60% charged: two lights will stay on, while the remaining light will blink continuously.
- Fully charged: all three lights will remain on continuously.

3. The charging process will last approximately 35 minutes and continuous lighting of all three charging lights will indicate charging is complete.

LED Indicator	Remaining Power Status
1 	0-25%
2 	25-50%
3 	50-75%
4 	75-100%

! CAUTION! If the red or green LED keeps flashing during the charging process for more than 20 minutes, please remove the battery and allow cooling down for 15-30 minutes. Then insert it into the charger base again, if LED still flashes, the battery and charger require service.

Note:

1. If the battery pack is still hot to hold, allow to cool for a 30 min and reinsert. The charger will not charge a hot battery.
2. Charger may warm with several continuous charge cycles. This is part of the normal operation of the charge. Charge in a well ventilated area.

Know and Operate Your Drill

Before using the power tool, familiarize yourself with all operating features and safety requirements. Use the tool and accessories only for the applications intended. All other applications are expressly ruled out.

1 Keyless Chuck	2 Speed Selector Switch	3 Forward/Reverse Switch
4 Battery Release Buttons	5 Battery	6 ON/OFF Trigger Switch
7 LED Light	8 Torque Adjustment Collar	9 Charger
10 LED Charge State Indicator	11 Battery State Indicator	

LED WORK AREA LIGHT

The machine is equipped with LED light (7) to illuminate the work area and improve visibility when drilling in areas with insufficient light.

REVERSING

The extreme position of lever (3) to the right (viewed from the rear) is equivalent to anti-clockwise rotation, the extreme position to the left is to clockwise rotation. When the ON/OFF switch (6) is depressed, lever (3) cannot be actuated. (Fig.2)

! WARNING: Reversing can be performed only when the spindle is not rotating!

Drilling is performed with lever in extreme position to the left.

Reversing is performed with lever in extreme position to the right.

SWITCHING ON-SWITCHING OFF

Switching on: press ON/OFF switch (6).

Switching off: release ON/OFF switch (6).

The power tool is equipped with a brake. The spindle stops rotating immediately after releasing the switch lever.


SMOOTH ELECTRONIC RPM CONTROL

Light pressure on ON/OFF trigger switch (6) results in low rotation speed, further pressing the switch results in smooth increase of the rpm to maximum upon reaching the extreme position.

ADJUSTABLE THE TORQUE

Rotate the torque adjustment collar (8) behind the chuck, to adjust the torque to each of 15 settings. The range of 15 torque settings allows better control when using the drill.

Know and Operate Your Drill

<div>1</div> <div>15</div>	Screwdriving Set the torque adjustment collar (8) against one of the 15 positions. Select low setting range for working with small screws or in soft materials. Select high setting range for working with large screws or in hard materials.
	Drilling Set the torque adjustment collar (8) against this symbol to choose drilling in metal, wood, etc. The power tool is equipped with an electric brake. The spindle stops rotation immediately after the switch has been released. At overloading in drilling mode release the switch immediately to prevent prolonged overloading and overheating the motor.

The numbers circling the collar are used to indicate the level of torque. The larger the number on the collar, the higher the torque. To select any of the numbers, rotate the collar (8) until the desired number aligns with the arrow head indicator on the housing of the machine.

SPEED SELECTOR SWITCH (Fig. 3)

The high/low gear selector (2) enables you to select a gear with the optimum speed and torque to suit the application.

To select the low speed, high torque setting, turn the tool off and allow it to stop. Slide the gear selector forward (towards the chuck). The word 1 will be displayed.

To select the high speed, low torque setting, turn the tool off and allow it to stop. Slide the gear shifter back (away from chuck). The word 2 will be displayed.

! WARNING: When changing the gear, ensure the drill is switched off.

INSERTING AND REMOVING BITS (Fig. 4)

! WARNING: Remove the battery or set the forward/reverse switch (3) in central position (A).

The drill is fitted with auto spindle lock which means if you try to rotate the chuck by hand, the spindle will automatically lock. This means you only need to grasp the chuck and rotate the chuck housing to remove or fit accessories.

- Hold the machine with one hand and rotate the chuck with the other hand.
 - To open the chuck, rotate it anti-clockwise (B).
 - To close the chuck, rotate it clockwise (D).
- Insert the bit (C).
- Close the chuck.
- Perform a test run to check that the bit is properly clamped in the centre.

Know and Operate Your Drill

REPLACING THE CHUCK

! WARNING: Replacing the chuck must be performed only in authorized service centers. Please do not attempt to replace the chuck with available tools otherwise you may damage the cordless drill/driver.

DRILLING

Drilling Metal

- For maximum performance, use high speed steel bits for drilling in metal or steel
- Ensure that the torque adjustment collar (8) is at position "drill bit"
- Begin drilling at very low speed to prevent the bit from slipping off the starting point.
- Always clamp sheet metal.
- Support thin metal with a block of wood to avoid distorting it.
- Use a punch to mark the centre of the hole.
- Use a suitable lubricant for the material you are working on.

Material	Lubricant
Steel	Oil
Aluminium	Turpentine or Paraffin
Brass, Copper or Cast Iron	Do not lubricate

Drilling Plastics and Plastic Coated Chipboard

- Use high speed drill bits.
- Refer to "drilling wood" below.

Drilling Wood

- For maximum performance, use high speed steel bits for wood drilling.
- Ensure that the torque adjustment collar (8) is at position "drill bit"
- Begin drilling at a very low speed to prevent the bit from slipping off the starting point. Increase the speed as the drill bites into the material.
- When drilling through holes, place a block of wood behind the work piece to prevent ragged or splintered edges on the back side of the hole.

All Drilling Operations

- Use only sharp drill bits.
- Mark off the centre of the hole using a centre punch or nail.

Maintenance

! WARNING: Always set the forward/reverse switch (3) in central position before any work on the machine e.g. fitting and removing a battery pack, changing the bit, transport, maintenance and storage. Regularly check that all the fixing screws are tight. They may vibrate loose over time.

CLEANING

For safe operation, always keep the machine and its ventilation slots clean. Regularly check to see if any dust or foreign matter has entered the grills near the motor and around the switches. Use a soft brush to remove any accumulated dust. Wear safety glasses to protect your eyes while cleaning. If the body of the tool needs cleaning, wipe it with a soft damp cloth. A mild detergent can be used.

! WARNING: Never use alcohol, petrol or other cleaning agent. Never use caustic agents to clean plastic parts.

CHARGER CLEANING INSTRUCTIONS

! WARNING: Disconnect the charger from the AC outlet before cleaning.

- Dirt and grease may be removed from the exterior of the charger using a cloth or soft non metallic brush. Do not use water or any cleaning solutions.

IMPORTANT! To assure product safety and reliability, repairs, maintenance and adjustment (including brush inspection and replacement) should be performed by certified service centers or other qualified service organizations, always using genuine replacement parts.

Environmental Protection

- The machine, rechargeable batteries, accessories and packaging should be sorted for environmental-friendly recycling.
- Do not dispose of power tools and batteries/rechargeable batteries into household waste!



Li-Ion

According to the European Guideline 2012/19/EU for Waste Electrical and Electronic Equipment and its implementation into national right, power tools that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

ATTENTION! Batteries must be removed from battery-powered tools and disposed of separately in accordance with 2013/56/EU. Batteries must never be disposed of with domestic waste!

Collection and disposal of packaging materials separately by types complying with local rules and regulations. For details, please contact your municipal authority concerned.

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