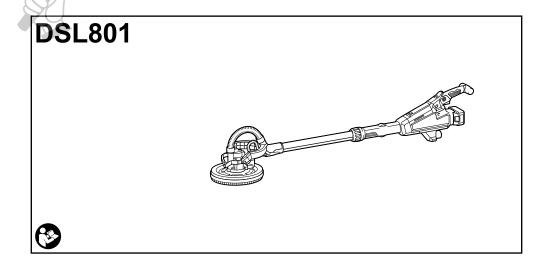
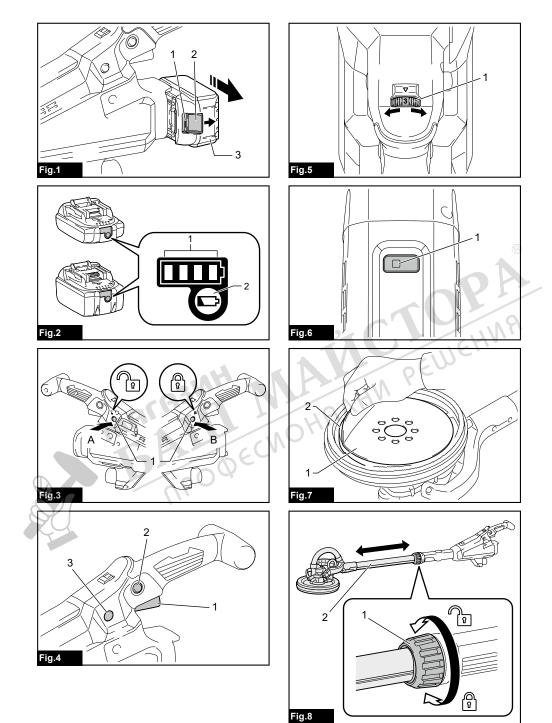
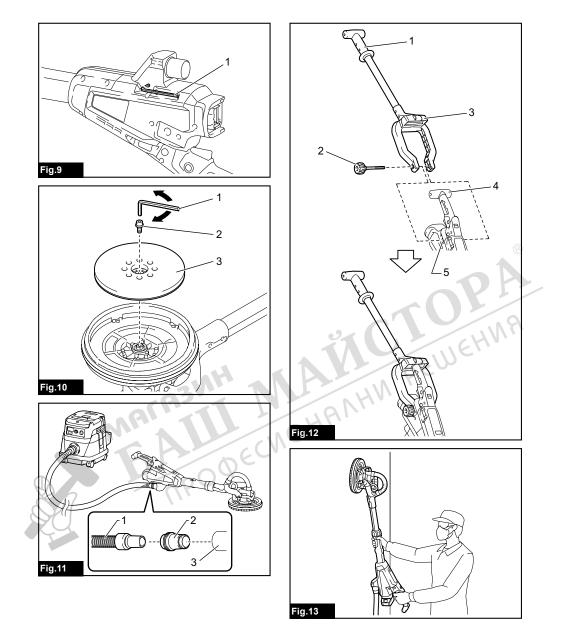
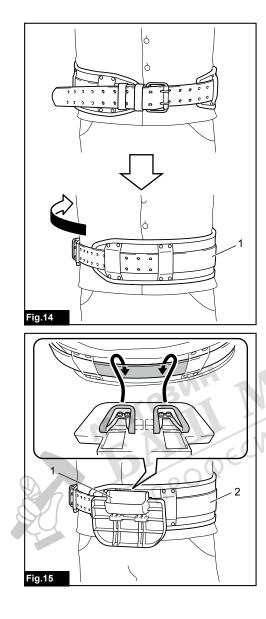


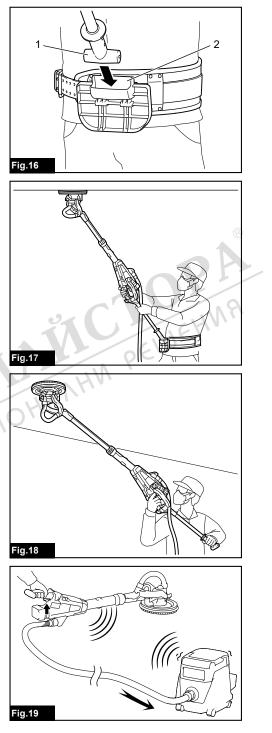
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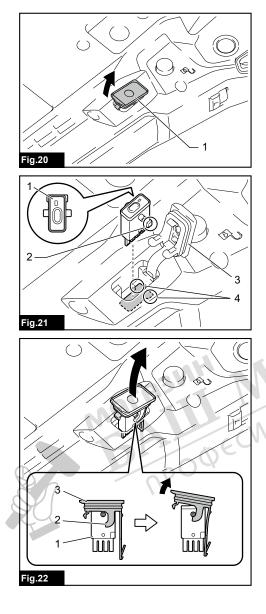












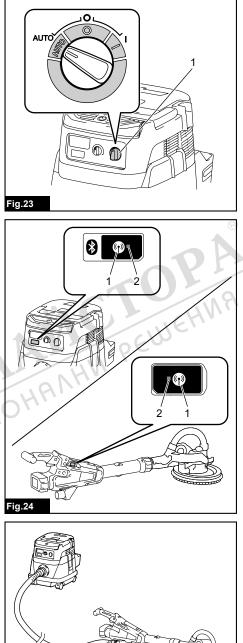
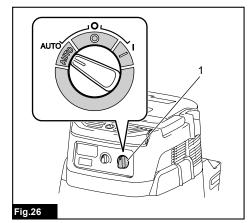
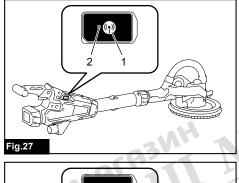
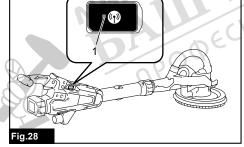
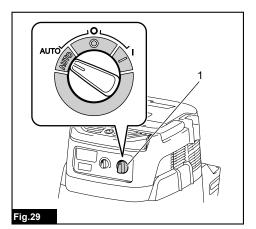


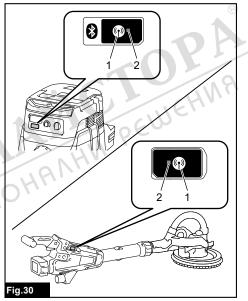
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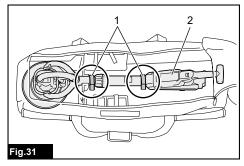


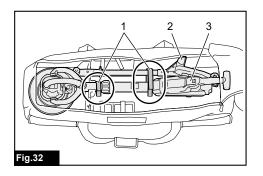














# **SPECIFICATIONS**

Model:	DSL801
Paper size	225 mm
Pad diameter	210 mm
No load speed	1,000 - 1,800 min <sup>-1</sup>
Dimensions (L x W x H)	1,120 mm - 1,540 mm x 278 mm x 273 mm
Rated voltage	D.C. 18 V
Net weight	4.6 - 5.8 kg

 Due to our continuing program of research and development, the specifications herein are subject to change without notice.

- Specifications may differ from country to country.
- The weight may differ depending on the attachment(s), including the battery cartridge. The lightest and heaviest combination, according to EPTA-Procedure 01/2014, are shown in the table.

# Applicable battery cartridge and charger

Battery cartridge	BL1815N / BL1820B / BL1830B / BL1840B / BL1850B / BL1860B
Charger	DC18RC / DC18RD / DC18RE / DC18SD / DC18SE / DC18SF / DC18SH

 Some of the battery cartridges and chargers listed above may not be available depending on your region of residence.

**WARNING:** Only use the battery cartridges and chargers listed above. Use of any other battery cartridges and chargers may cause injury and/or fire.

## Intended use

The tool is intended for sanding drywall or ceiling.

## Noise

The typical A-weighted noise level determined according to EN62841-2-4:

Sound pressure level (L<sub>pA</sub>) : 75 dB(A) Uncertainty (K) : 3 dB(A)

The noise level under working may exceed 80 dB (A).

**NOTE:** The declared noise emission value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.

**NOTE:** The declared noise emission value(s) may also be used in a preliminary assessment of exposure.

### **WARNING:** Wear ear protection.

AWARNING: The noise emission during actual use of the power tool can differ from the declared value(s) depending on the ways in which the tool is used especially what kind of workpiece is processed.

AWARNING: Be sure 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).

## Vibration

The vibration total value (tri-axial vector sum) determined according to EN62841-2-4: Work mode: disc sanding Vibration emission ( $a_{h, DS}$ ) : 2.5 m/s<sup>2</sup> or less Uncertainty (K) : 1.5 m/s<sup>2</sup>

**NOTE:** The declared vibration total value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.

**NOTE:** The declared vibration total value(s) may also be used in a preliminary assessment of exposure.

AWARNING: The vibration emission during actual use of the power tool can differ from the declared value(s) depending on the ways in which the tool is used especially what kind of workpiece is processed.

AWARNING: Be sure 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).

# **EC Declaration of Conformity**

### For European countries only

The EC declaration of conformity is included as Annex A to this instruction manual.

# SAFETY WARNINGS

# General power tool safety warnings

**WARNING:** Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below 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.

# Cordless drywall sander safety warnings

Safety Warnings Common for Sanding Operations:

- This power tool is intended to function as a sander. Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/ or serious injury.
- 2. Operations such as grinding, wire brushing, polishing or cutting-off are not recommended to be performed with this power tool. Operations for which the power tool was not designed may create a hazard and cause personal injury.
  - Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.
- 4. The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their rated speed can break and fly apart.
- 5. The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately guarded or controlled.
- 6. Do not use a damaged accessory. Before each use inspect the accessory such as pad for cracks, tear or excess wear. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will normally break apart during this test time.

- 7. Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As 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 filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- 8. Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- 9. Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting tool may contact hidden wiring. Contact with a "live" wire will also make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- 10. Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- 11. Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.
- 12. Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- 13. Do not operate the power tool near flammable materials. Sparks could ignite these materials.
- 14. Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

### Kickback and Related Warnings

Kickback is a sudden reaction to a pinched or snagged rotating pad or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if a pad is snagged or pinched by the workpiece, the edge of the pad that is entering into the pinch point can dig into the surface of the material causing the pad to climb out or kick out. The pad may either jump toward or away from the operator, depending on direction of the pad's movement at the point of pinching. Pad may also break under these conditions. Kickback is the result of power tool misuse and/or

incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

1. Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kickback forces, if proper precautions are taken.

- 2. Never place your hand near the rotating accessory. Accessory may kickback over your hand.
- Do not position your body in the area where power tool will move if kickback occurs.
  Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- Do not attach a saw chain woodcarving blade or toothed saw blade. Such blades create frequent kickback and loss of control.

#### Safety Warnings Specific for Sanding Operations:

1. Do not use excessively oversized sanding disc paper. Follow manufacturers recommendations, when selecting sanding paper. Larger sanding paper extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc or kickback.

#### Additional Safety Warnings:

- 1. Do not leave the tool running. Operate the tool only when hand-held.
- 2. Check that the workpiece is properly supported.
- 3. Pay attention that the pad continues to rotate after the tool is switched off.
- If working place is extremely hot and humid, or badly polluted by conductive dust, use a short-circuit breaker (30 mA) to assure operator safety.
- 5. Do not use the tool on any materials containing asbestos.
- 6. **Do not use cloth work gloves during operation.** Fibers from cloth gloves may enter the tool, which causes tool breakage.
- 7. Always work in well ventilated area.
- 8. When placing the tool, place it on a flat and stable surface.
- 9. When operating the tool, connect the tool to a vacuum cleaner as much as possible to keep the working area clean and prevent the operator from inhaling particles generated by the operation.
- 10. Handle and store accessories with care.

# SAVE THESE INSTRUCTIONS.

**A**WARNING: DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

# Important safety instructions for battery cartridge

- 1. Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
- Do not disassemble or tamper with the battery cartridge. It may result in a fire, excessive heat, or explosion.
- 3. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
- If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.
- 5. Do not short the battery cartridge:
  - (1) Do not touch the terminals with any conductive material.
  - (2) Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
  - (3) Do not expose battery cartridge to water or rain.

A battery short can cause a large current flow, overheating, possible burns and even a breakdown.

- 6. Do not store and use the tool and battery cartridge in locations where the temperature may reach or exceed 50 °C (122 °F).
- 7. Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.
- 8. Do not nail, cut, crush, throw, drop the battery cartridge, or hit against a hard object to the battery cartridge. Such conduct may result in a fire, excessive heat, or explosion.
- 9. Do not use a damaged battery.
- 10. The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements.

For commercial transports e.g. by third parties, forwarding agents, special requirement on packaging and labeling must be observed. For preparation of the item being shipped, consulting an expert for hazardous material is required. Please also observe possibly more detailed national regulations.

Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging.

- 11. When disposing the battery cartridge, remove it from the tool and dispose of it in a safe place. Follow your local regulations relating to disposal of battery.
- 12. Use the batteries only with the products specified by Makita. Installing the batteries to non-compliant products may result in a fire, excessive heat, explosion, or leak of electrolyte.
- 13. If the tool is not used for a long period of time, the battery must be removed from the tool.

- 14. During and after use, the battery cartridge may take on heat which can cause burns or low temperature burns. Pay attention to the handling of hot battery cartridges.
- 15. Do not touch the terminal of the tool immediately after use as it may get hot enough to cause burns.
- 16. Do not allow chips, dust, or soil stuck into the terminals, holes, and grooves of the battery cartridge. It may result in poor performance or breakdown of the tool or battery cartridge.
- 17. Unless the tool supports the use near high-voltage electrical power lines, do not use the battery cartridge near high-voltage electrical power lines. It may result in a malfunction or breakdown of the tool or battery cartridge.

## 18. Keep the battery away from children. SAVE THESE INSTRUCTIONS.

**CAUTION:** Only use genuine Makita batteries. Use of non-genuine Makita batteries, or batteries that have been altered, may result in the battery bursting causing fires, personal injury and damage. It will also void the Makita warranty for the Makita tool and charger.

# Tips for maintaining maximum battery life

- 1. Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.
- 2. Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
- Charge the battery cartridge with room temperature at 10 °C - 40 °C (50 °F - 104 °F). Let a hot battery cartridge cool down before charging it.

When not using the battery cartridge, remove it from the tool or the charger.

Charge the battery cartridge if you do not use it for a long period (more than six months).

### Important safety instructions for wireless unit

- 1. Do not disassemble or tamper with the wireless unit.
- 2. Keep the wireless unit away from young children. If accidentally swallowed, seek medical attention immediately.
- 3. Use the wireless unit only with Makita tools.
- 4. Do not expose the wireless unit to rain or wet conditions.
- 5. Do not use the wireless unit in places where the temperature exceeds 50 °C (122 °F).
- 6. Do not operate the wireless unit in places where medical instruments, such as heart pace makers are nearby.
- Do not operate the wireless unit in places where automated devices are nearby. If operated, automated devices may develop malfunction or error.

- Do not operate the wireless unit in places under high temperature or places where static electricity or electrical noise could be generated.
- 9. The wireless unit can produce electromagnetic fields (EMF) but they are not harmful to the user.
- 10. The wireless unit is an accurate instrument. Be careful not to drop or strike the wireless unit.
- 11. Avoid touching the terminal of the wireless unit with bare hands or metallic materials.
- 12. Always remove the battery on the product when installing the wireless unit into it.
- 13. When opening the lid of the slot, avoid the place where dust and water may come into the slot. Always keep the inlet of the slot clean.
- 14. Always insert the wireless unit in the correct direction.
- 15. Do not press the wireless activation button on the wireless unit too hard and/or press the button with an object with a sharp edge.
- 16. Always close the lid of the slot when operating.
- 17. Do not remove the wireless unit from the slot while the power is being supplied to the tool. Doing so may cause a malfunction of the wireless unit.
- 18. Do not remove the sticker on the wireless unit.
- 19. Do not put any sticker on the wireless unit.
- 20. Do not leave the wireless unit in a place where static electricity or electrical noise could be generated.
- 21. Do not leave the wireless unit in a place subject to high heat, such as a car sitting in the sun.
- 22. Do not leave the wireless unit in a dusty or powdery place or in a place corrosive gas could be generated.
- 23. Sudden change of the temperature may bedew the wireless unit. Do not use the wireless unit until the dew is completely dried.
- 24. When cleaning the wireless unit, gently wipe with a dry soft cloth. Do not use benzine, thinner, conductive grease or the like.
- 25. When storing the wireless unit, keep it in the supplied case or a static-free container.
- 26. Do not insert any devices other than Makita wireless unit into the slot on the tool.
- 27. Do not use the tool with the lid of the slot damaged. Water, dust, and dirt come into the slot may cause malfunction.
- Do not pull and/or twist the lid of the slot more than necessary. Restore the lid if it comes off from the tool.
- 29. Replace the lid of the slot if it is lost or damaged.

# SAVE THESE INSTRUCTIONS.

# FUNCTIONAL DESCRIPTION

**A**CAUTION: Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking function on the tool.

# Installing or removing battery cartridge

**ACAUTION:** Always switch off the tool before installing or removing of the battery cartridge.

**CAUTION:** Hold the tool and the battery cartridge firmly when installing or removing battery cartridge. Failure to hold the tool and the battery cartridge firmly may cause them to slip off your hands and result in damage to the tool and battery cartridge and a personal injury.

► Fig.1: 1. Red indicator 2. Button 3. Battery cartridge

To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge.

To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click. If you can see the red indicator as shown in the figure, it is not locked completely.

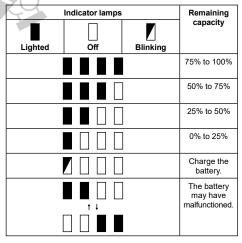
**CAUTION:** Always install the battery cartridge fully until the red indicator cannot be seen. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.

**CAUTION:** Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.

# Indicating the remaining battery capacity

Only for battery cartridges with the indicator Fig.2: 1. Indicator lamps 2. Check button

Press the check button on the battery cartridge to indicate the remaining battery capacity. The indicator lamps light up for a few seconds.



**NOTE:** Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.

**NOTE:** The first (far left) indicator lamp will blink when the battery protection system works.

## Tool / battery protection system

The tool is equipped with a tool/battery protection system. This system automatically cuts off power to the motor to extend tool and battery life. The tool will automatically stop during operation if the tool or battery is placed under one of the following conditions:

# **Overload protection**

When the tool or battery is operated in a manner that causes it to draw an abnormally high current, the tool automatically stops and the lamp blinks. In this situation, turn the tool off and stop the application that caused the tool to become overloaded. Then turn the tool on to restart.

# **Overheat protection**

When the tool or battery is overheated, the tool stops automatically and the lamp lights up. In this case, let the tool and battery cool before turning the tool on again.

# Overdischarge protection

When the battery capacity is not enough, the tool stops automatically. In this case, remove the battery from the tool and charge the battery.

# Switch action

**A**CAUTION: Before installing the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

**A**CAUTION: Switch can be locked in "ON" position for ease of operator comfort during extended use. Apply caution when locking tool in "ON" position and maintain firm grasp on tool.

**A**CAUTION: Do not install the battery cartridge with the lock button engaged.

- Fig.3: 1. Trigger-lock button
- ► Fig.4: 1. Switch trigger 2. Lock button 3. Triggerlock button

To prevent the switch trigger from accidentally pulled, the trigger-lock button is provided. To start the tool, depress the trigger-lock button from A ( $^{\textcircled{}}$ ) side and pull the switch trigger. Release the switch trigger to stop. After use, depress the trigger-lock button from B ( $^{\textcircled{}}$ ) side.

For continuous operation, depress the lock button while pulling the switch trigger, and then release the switch trigger. To stop the tool, pull the switch trigger fully, then release it.

# Speed adjusting dial

#### Fig.5: 1. Speed adjusting dial

The rotation speed of the tool can be changed by turning the speed adjusting dial. The table below shows the number on the dial and the corresponding rotation speed.

Number	Speed
1	1,000 min <sup>-1</sup>
2	1,200 min <sup>-1</sup>
3	1,400 min <sup>-1</sup>
4	1,600 min <sup>-1</sup>
5	1,800 min <sup>-1</sup>

**NOTICE:** The speed adjusting dial can be turned only as far as 5 and back to 1. Do not force it past 5 or 1, or the speed adjusting function may no longer work.

# Overload and overheat indicator lamp

#### ► Fig.6: 1. Indicator lamp

If the tool is operated with excessive load, the tool stops automatically and the indicator lamp blinks in red. In this case, reduce the load on the tool.

If the tool is overheated, the tool stops automatically and the indicator lamp lights up in red. In this case, let the tool cool down before turning the tool on again.

# **Electronic function**

The tools equipped with electronic function are easy to operate because of the following features.

# **Constant speed control**

Possible to get fine finish, because the rotating speed is kept constant even under the loaded condition.

# Soft start feature

Soft start because of suppressed starting shock.

# ASSEMBLY

**A**CAUTION: Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.

# Installing the abrasive disc

### Fig.7: 1. Abrasive disc 2. Pad

Remove any dirt or foreign matter from the pad, and then attach the abrasive disc to the pad while aligning the holes in the abrasive disc with those in the pad.

# Adjusting the pipe length

ACAUTION: When adjusting the pipe length,

hold the tool horizontally. Otherwise, the pipe length may change unintentionally and it may cause an injury or malfunction of the tool.

**NOTICE:** Do not extend the pipe beyond the limit. Failure to do so may cause a malfunction of the tool.

► Fig.8: 1. Sleeve 2. Pipe

To adjust the pipe length, loosen the sleeve, then adjust the length of the pipe, and then tighten the sleeve.

### Hex wrench storage

#### Fig.9: 1. Hex wrench

When not in use, store the hex wrench as shown in the figure to keep it from being lost.

### Installing or removing the pad

Fig.10: 1. Hex wrench 2. Bolt 3. Pad

To remove the pad, remove the abrasive disc from the pad, and then turn the bolt counterclockwise with a hex wrench. To install the pad, perform the removal procedure in reverse.

**ACAUTION:** Make sure that the pad is secured properly. Loose attachment will run out of balance and cause an excessive vibration which may cause loss of control.

## Connecting a vacuum cleaner

#### **Optional accessory**

When you wish to perform operation cleanly, connect a Makita vacuum cleaner to your tool. Connect a hose of the vacuum cleaner to the dust nozzle using the front cuff 24.

► Fig.11: 1. Hose of the vacuum cleaner 2. Front cuff 24 3. Dust nozzle

# Installing or removing the extension handle

#### **Optional accessory**

To install the extension handle, attach the extension handle to the tool and secure it with the knob firmly. Be sure to insert the end of the tool into the holder of the extension handle. To remove the extension handle, perform the installation procedure in reverse.

▶ Fig.12: 1. Extension handle 2. Knob 3. Holder 4. End of tool 5. Mounting hole

# **A**WARNING: Use the mounting hole of the tool only for attaching the extension handle.

Using the mounting hole for any other purpose may cause an unexpected accident.

# OPERATION

**A**CAUTION: Only use Makita genuine pads for sanding (optional accessories).

**A**CAUTION: Make sure the work material is secured and stable. Falling object may cause personal injury.

**CAUTION:** Hold the tool firmly with one hand on the switch handle and the other hand on the front grip when operating the tool.

**CAUTION:** Do not run the tool at high load over an extended time period. It may result in tool malfunction which causes electric shock, fire and/or serious injury.

**A**CAUTION: Be careful not to touch the rotating part.

**NOTICE:** Never force the tool. Excessive pressure may lead to decreased sanding efficiency, damaged pad, or shorten tool life.

# **NOTICE:** Continuous operation at high speed may damage work surface.

1. Position the tool lightly against the work surface. Apply light pressure enough to align the sanding head with the work surface.

2. Apply additional pressure to engage the pad on the work surface. Move the tool in an overlapping pattern in constant motion to smooth the drywall compound.

▶ Fig.13

# Operating the tool with the extension handle

### **Optional accessory**

**ACAUTION:** Hold the tool firmly with one hand on the switch handle and the other hand on the extension handle when operating the tool with the extension handle.

**ACAUTION:** Take extra care for the footing and balance when handling the tool with the extension handle.

1. Wear the belt for the extension handle as shown in the figure.

▶ Fig.14: 1. Belt

2. Attach the holder to the belt.

▶ Fig.15: 1. Holder 2. Belt

**3.** Put the end of the extension handle into the holder to support the tool.

► Fig.16: 1. End of extension handle 2. Holder

Operate the tool in the same way as the tool without the extension handle.

► Fig.17

You can also operate the tool without using the belt and the holder as shown in the figure.

#### ▶ Fig.18

# WIRELESS ACTIVATION FUNCTION

Optional accessory

## What you can do with the wireless activation function

The wireless activation function enables clean and comfortable operation. By connecting a supported vacuum cleaner to the tool, you can run the vacuum cleaner automatically along with the switch operation of the tool. Fig.19

To use the wireless activation function, prepare following items:

- A wireless unit (optional accessory)
- A vacuum cleaner which supports the wireless activation function

The overview of the wireless activation function setting is as follows. Refer to each section for detail procedures.

- 1. Installing the wireless unit
- 2. Tool registration for the vacuum cleaner
- 3. Starting the wireless activation function

# Installing the wireless unit

**Optional accessory** 

**A**CAUTION: Place the tool on a flat and stable surface when installing the wireless unit.

**NOTICE:** Clean the dust and dirt on the tool before installing the wireless unit. Dust or dirt may cause malfunction if it comes into the slot of the wireless unit.

**NOTICE:** To prevent the malfunction caused by static, touch a static discharging material, such as a metal part of the tool, before picking up the wireless unit.

**NOTICE:** When installing the wireless unit, always be sure that the wireless unit is inserted in the correct direction and the lid is completely closed.

1. Open the lid on the tool as shown in the figure. ► Fig.20: 1. Lid

**2.** Insert the wireless unit to the slot and then close the lid.

When inserting the wireless unit, align the projections with the recessed portions on the slot.

Fig.21: 1. Wireless unit 2. Projection 3. Lid
4. Recessed portion

When removing the wireless unit, open the lid slowly. The hooks on the back of the lid will lift the wireless unit as you pull up the lid.

Fig.22: 1. Wireless unit 2. Hook 3. Lid

After removing the wireless unit, keep it in the supplied case or a static-free container.

**NOTICE:** Always use the hooks on the back of the lid when removing the wireless unit. If the hooks do not catch the wireless unit, close the lid completely and open it slowly again.

# Tool registration for the vacuum cleaner

**NOTE:** A Makita vacuum cleaner supporting the wireless activation function is required for the tool registration.

**NOTE:** Finish installing the wireless unit to the tool before starting the tool registration.

**NOTE:** During the tool registration, do not pull the switch trigger or turn on the power switch on the vacuum cleaner.

**NOTE:** Refer to the instruction manual of the vacuum cleaner, too.

If you wish to activate the vacuum cleaner along with the switch operation of the tool, finish the tool registration beforehand.

1. Install the batteries to the vacuum cleaner and the tool.

**2.** Set the stand-by switch on the vacuum cleaner to "AUTO".

Fig.23: 1. Stand-by switch

3. Press the wireless activation button on the vacuum cleaner for 3 seconds until the wireless activation lamp blinks in green. And then press the wireless activation button on the tool in the same way.

► Fig.24: 1. Wireless activation button 2. Wireless activation lamp

If the vacuum cleaner and the tool are linked successfully, the wireless activation lamps will light up in green for 2 seconds and start blinking in blue.

**NOTE:** The wireless activation lamps finish blinking in green after 20 seconds elapsed. Press the wireless activation button on the tool while the wireless activation lamp on the cleaner is blinking. If the wireless activation lamp does not blink in green, push the wireless activation button briefly and hold it down again.

**NOTE:** When performing two or more tool registrations for one vacuum cleaner, finish the tool registration one by one.

## Starting the wireless activation function

**NOTE:** Finish the tool registration for the vacuum cleaner prior to the wireless activation.

**NOTE:** Refer to the instruction manual of the vacuum cleaner, too.

After registering a tool to the vacuum cleaner, the vacuum cleaner will automatically runs along with the switch operation of the tool.

1. Install the wireless unit to the tool.

2. Connect the hose of the vacuum cleaner with the tool.

#### ▶ Fig.25

**3.** Set the stand-by switch on the vacuum cleaner to "AUTO".

Fig.26: 1. Stand-by switch

**4.** Push the wireless activation button on the tool briefly. The wireless activation lamp will blink in blue.

► Fig.27: 1. Wireless activation button 2. Wireless activation lamp

5. Pull the switch trigger of the tool. Check if the vacuum cleaner runs while the switch trigger is being pulled.

To stop the wireless activation of the vacuum cleaner, push the wireless activation button on the tool.

**NOTE:** The wireless activation lamp on the tool will stop blinking in blue when there is no operation for 2 hours. In this case, set the stand-by switch on the vacuum cleaner to "AUTO" and push the wireless activation button on the tool again.

**NOTE:** The vacuum cleaner starts/stops with a delay. There is a time lag when the vacuum cleaner detects a switch operation of the tool.

**NOTE:** The transmission distance of the wireless unit may vary depending on the location and surrounding circumstances.

NOTE: When two or more tools are registered to one vacuum cleaner, the vacuum cleaner may start running even if you do not pull the switch trigger because another user is using the wireless activation function.

# Description of the wireless activation lamp status

### ► Fig.28: 1. Wireless activation lamp

The wireless activation lamp shows the status of the wireless activation function. Refer to the table below for the meaning of the lamp status.

Status		Wireless activation lamp			Description
	Color	On	Blinking	Duration	
Standby	tandby Blue		Blue		The wireless activation of the vacuum cleaner is available. The lamp will automatically turn off when no operation is performed for 2 hours.
				When the tool is running.	The wireless activation of the vacuum cleaner is available and the tool is running.
Tool Green registration				20 seconds	Ready for the tool registration. Waiting for the registration by the vacuum cleaner.
				2 seconds	The tool registration has been finished. The wireless activation lamp will start blinking in blue.
Cancelling tool registration	Red			20 seconds	Ready for the cancellation of the tool registration. Waiting for the cancellation by the vacuum cleaner.
				2 seconds	The cancellation of the tool registration has been finished. The wireless activation lamp will start blinking in blue.
Others	Red			3 seconds	The power is supplied to the wireless unit and the wireless activa- tion function is starting up.
	Off		-	-	The wireless activation of the vacuum cleaner is stopped.
tool. <b>2.</b> Set the	following prison for the statement of th	r rocedure wł	nen cancelli aner. uum cleane	ng the er and the	OHRNHM PEWEHM
AUTO".		213		ECV	

### Cancelling tool registration for the vacuum cleaner

Fig.29: 1. Stand-by switch

Press the wireless activation button on the vac-3. uum cleaner for 6 seconds. The wireless activation lamp blinks in green and then become red. After that, press the wireless activation button on the tool in the same way.

Fig.30: 1. Wireless activation button 2. Wireless activation lamp

If the cancellation is performed successfully, the wireless activation lamps will light up in red for 2 seconds and start blinking in blue.

NOTE: The wireless activation lamps finish blinking in red after 20 seconds elapsed. Press the wireless activation button on the tool while the wireless activation lamp on the cleaner is blinking. If the wireless activation lamp does not blink in red, push the wireless activation button briefly and hold it down again.

# Troubleshooting for wireless activation function

Before asking for repairs, conduct your own inspection first. If you find a problem that is not explained in the manual, do not attempt to dismantle the tool. Instead, ask Makita Authorized Service Centers, always using Makita replacement parts for repairs.

State of abnormality	Probable cause (malfunction)	Remedy	
The wireless activation lamp does not light/blink.	The wireless unit is not installed into the tool. The wireless unit is improperly installed into the tool.	Install the wireless unit correctly.	
	The terminal of the wireless unit and/or the slot is dirty.	Gently wipe off dust and dirt on the terminal of the wireless unit and clean the slot.	
	The wireless activation button on the tool has not been pushed.	Push the wireless activation button on the tool briefly.	
	The stand-by switch on the vacuum cleaner is not set to "AUTO".	Set the stand-by switch on the vacuum cleaner to "AUTO".	
	No power supply	Supply the power to the tool and the vacuum cleaned	
Cannot finish tool registration / can- celling tool registration successfully.	The wireless unit is not installed into the tool. The wireless unit is improperly installed into the tool.	Install the wireless unit correctly.	
	The terminal of the wireless unit and/or the slot is dirty.	Gently wipe off dust and dirt on the terminal of the wireless unit and clean the slot.	
	The stand-by switch on the vacuum cleaner is not set to "AUTO".	Set the stand-by switch on the vacuum cleaner to "AUTO".	
	No power supply	Supply the power to the tool and the vacuum cleane	
ALA	Incorrect operation	Push the wireless activation button briefly and perform the tool registration/cancellation procedures again.	
	The tool and vacuum cleaner are away from each other (out of the transmission range).	Get the tool and vacuum cleaner closer to each other. Th maximum transmission distance is approximately 10 m however it may vary according to the circumstances.	
	Before finishing the tool registration/ cancellation; - the switch trigger on the tool is pulled or; - the power button on the vacuum cleaner is turned on.	Push the wireless activation button briefly and perform the tool registration/cancellation procedure again.	
N	The tool registration procedures for the tool or vacuum cleaner have not finished.	Perform the tool registration procedures for both th tool and the vacuum cleaner at the same timing.	
S 6F	Radio disturbance by other appliances which generate high-intensity radio waves.	Keep the tool and vacuum cleaner away from the appliances such as Wi-Fi devices and microwave ovens.	
The vacuum cleaner does not run along with the switch operation of the tool.	The wireless unit is not installed into the tool. The wireless unit is improperly installed into the tool.	Install the wireless unit correctly.	
20	The terminal of the wireless unit and/or the slot is dirty.	Gently wipe off dust and dirt on the terminal of the wireless unit and clean the slot.	
	The wireless activation button on the tool has not been pushed.	Push the wireless activation button briefly and make sure that the wireless activation lamp is blinking in blue	
	The stand-by switch on the vacuum cleaner is not set to "AUTO".	Set the stand-by switch on the vacuum cleaner to "AUTO".	
	More than 10 tools are registered to the vacuum cleaner.	Perform the tool registration again. If more than 10 tools are registered to the vacuum cleane the tool registered earliest will be cancelled automatically	
	The vacuum cleaner erased all tool registrations.	Perform the tool registration again.	
	No power supply	Supply the power to the tool and the vacuum cleane	
	The tool and vacuum cleaner are away from each other (out of the transmission range).	Get the tool and vacuum cleaner closer each other. Th maximum transmission distance is approximately 10 m however it may vary according to the circumstances.	
	Radio disturbance by other appliances which generate high-intensity radio waves.	Keep the tool and vacuum cleaner away from the appliances such as Wi-Fi devices and microwave ovens.	
The vacuum cleaner runs while the tool's switch trigger is not pulled.	Other users are using the wireless activation of the vacuum cleaner with their tools.	Turn off the wireless activation button of the other tools or cancel the tool registration of the other tools.	

# MAINTENANCE

ACAUTION: Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.

NOTICE: Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

# Storing the tool in the tool bag

When storing the tool in the tool bag, fix it with the hook and loop fasteners as shown in the figure.

▶ Fig.31: 1. Hook and loop fastener 2. Tool

When storing the tool and the extension handle in the tool bag, fix them with the hook and loop fasteners as shown in the figure.

▶ Fig.32: 1. Hook and loop fastener 2. Extension handle 3. Tool

# OPTIONAL ACCESSORIES

AAL PEUEHMA NOHANHM ACAUTION: These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- Abrasive disc
- Pad ٠
- Extension handle (with belt and holder)
- Wireless unit
- Makita genuine battery and charger

NOTE: Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.